PERMIT SET

GROWING FUTURE INNOVATORS, CREATORS, AND MAKERS FOR THE 21ST CENTURY

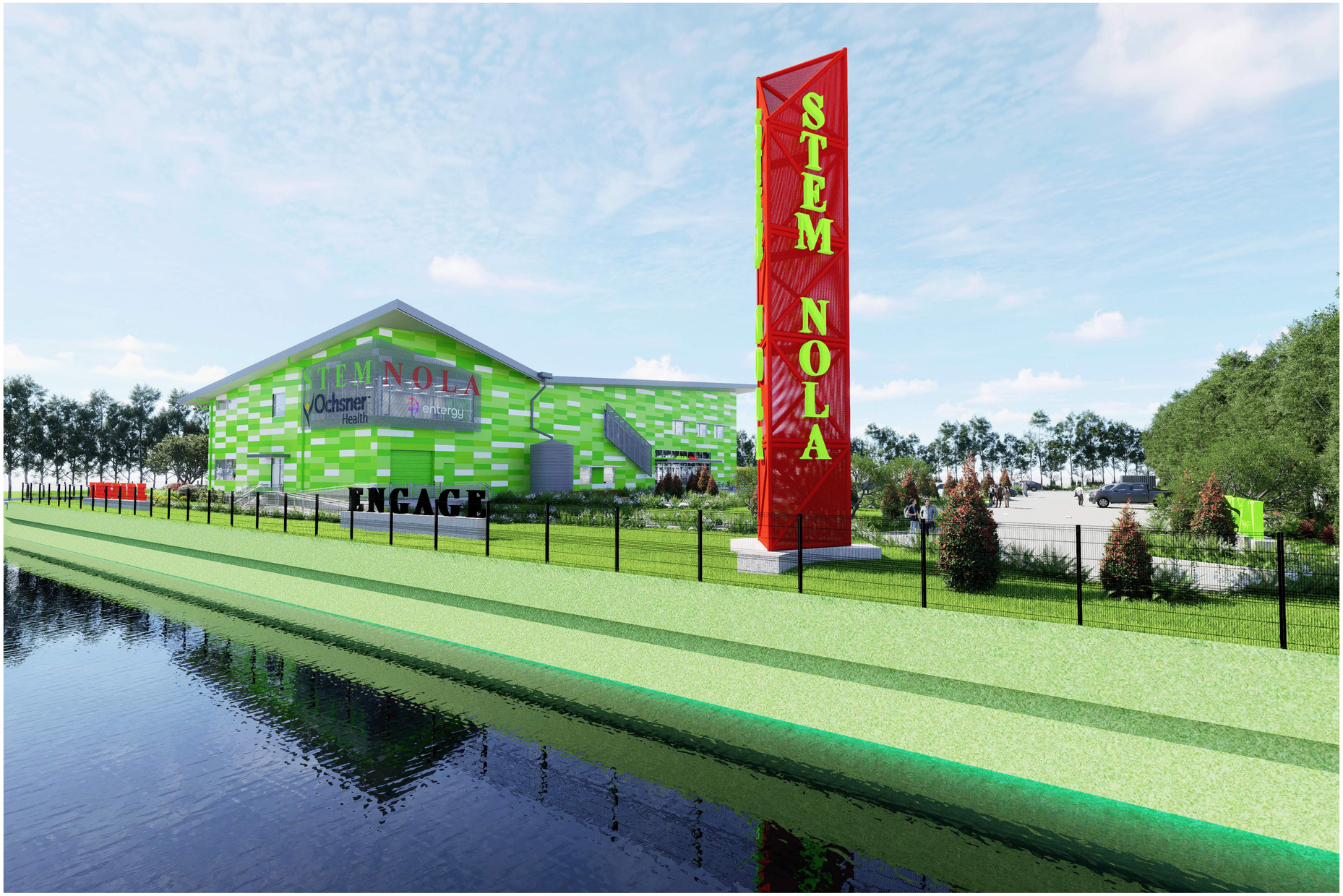
STEM NOLA

SCIENCE • TECHNOLOGY • ENGINEERING • MATH

POWERED BY entergy Ochsner Health

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127



WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD, AIA
REG. No. 7259
STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

COVER SHEET

SHEET NO. G000

5 A500 SW PERSPECTIVE
NTS

1 A500 SE PERSPECTIVE
NTS

2 A500 NW PERSPECTIVE
NTS

3 A500 NE PERSPECTIVE
NTS

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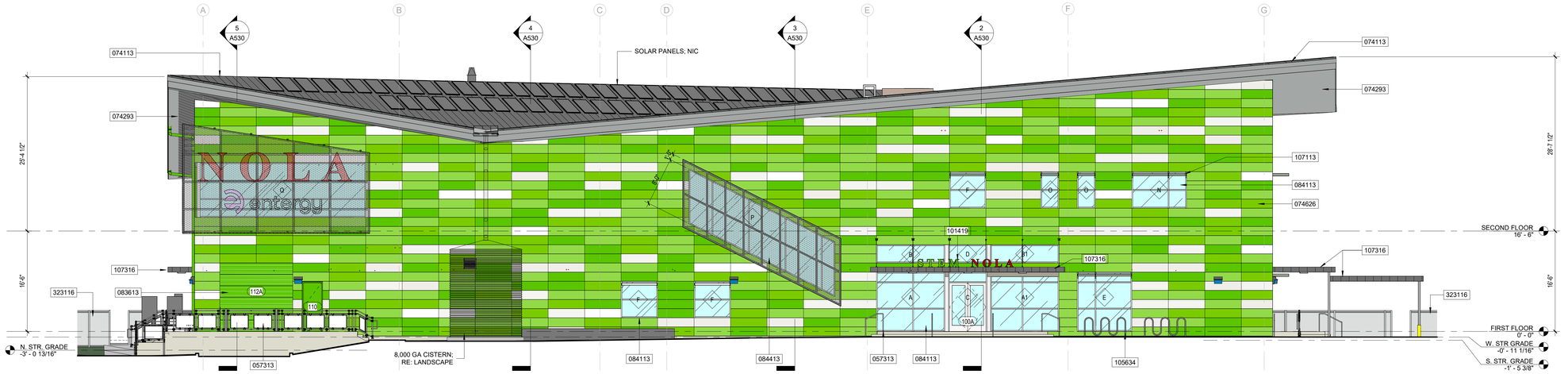
REVISIONS

DOMINIC A. WILLARD, REG. No. 7828, STATE OF LOUISIANA, ARCHITECT

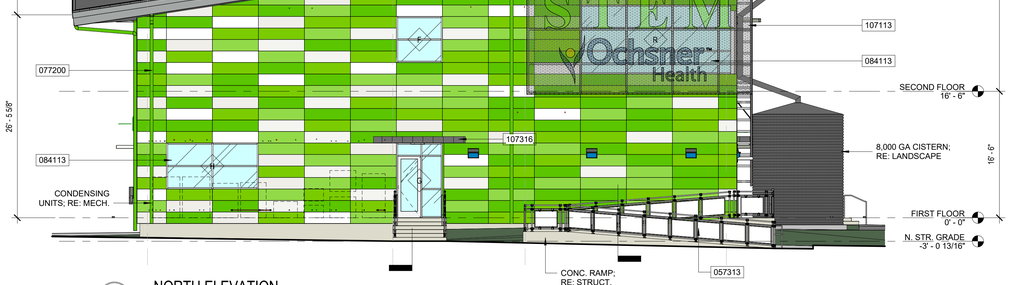
WDG Project No: 2024002

SHEET NAME
AXONS & PERSPECTIVES

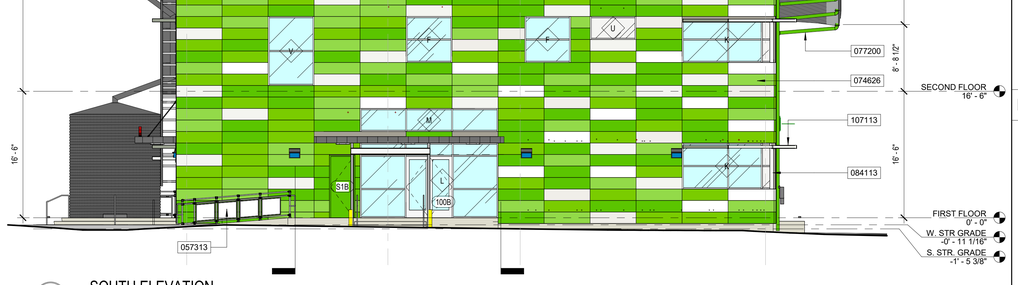
SHEET NO. A500



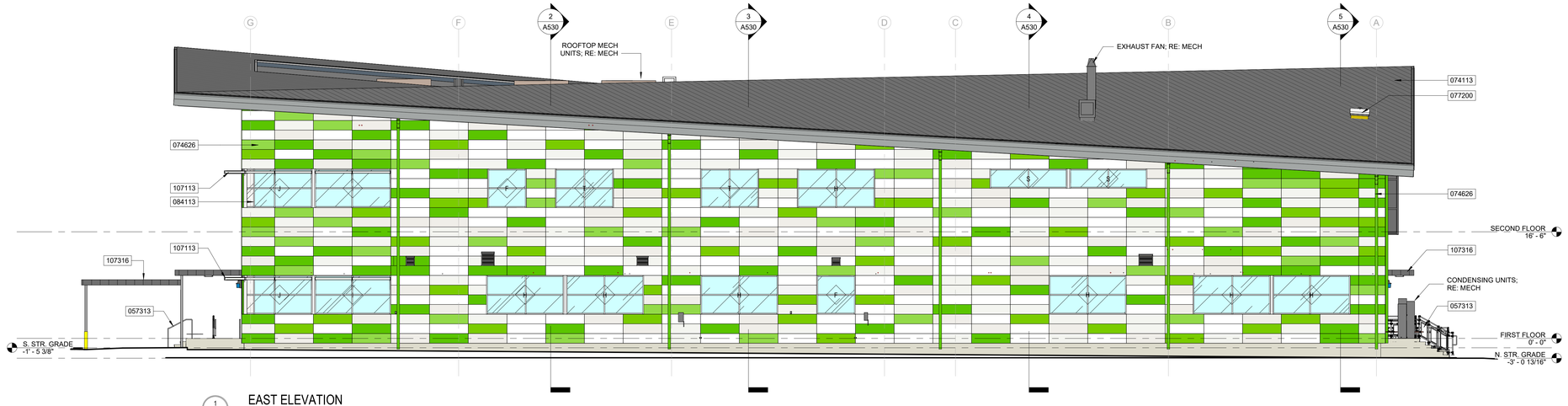
4 A211 A510 WEST ELEVATION 1/8" = 1'-0"



2 A211 A510 NORTH ELEVATION 1/8" = 1'-0"



3 A211 A510 SOUTH ELEVATION 1/8" = 1'-0"



1 A211 A510 EAST ELEVATION 1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

057313	DECORATIVE METAL RAILINGS EXTERIOR
074113	STANDING-SEAM METAL ROOF PANELS
074293	METAL SOFFIT PANELS
074626	CEMENTITIOUS WALL PANELS
077200	ROOF ACCESSORIES
083613	SECTIONAL DOORS, STEEL
084113	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
084413	GLAZED ALUMINUM CURTAIN WALLS
101419	DIMENSIONAL LETTER SIGNAGE
105634	BICYCLE STORAGE RACKS
107113	EXTERIOR FIXED SUN SCREENS
107316	CANOPIES, HANGER SUPPORTED
323116	WELDED WIRE FENCES AND GATES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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REVISIONS

DOMINIC A. WILLARD REG. No. 36240 STATE OF LOUISIANA REGISTERED ARCHITECT

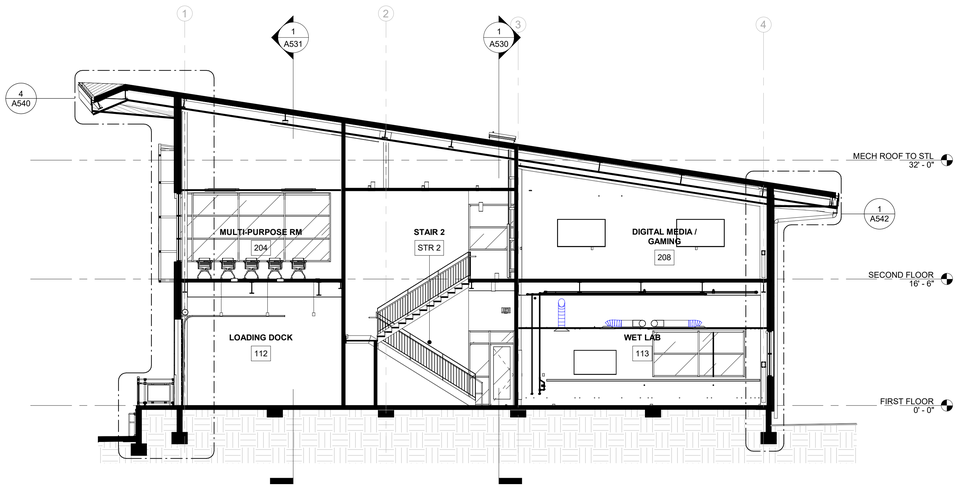
WDG Project No: 2024002

SHEET NAME

EXTERIOR ELEVATIONS

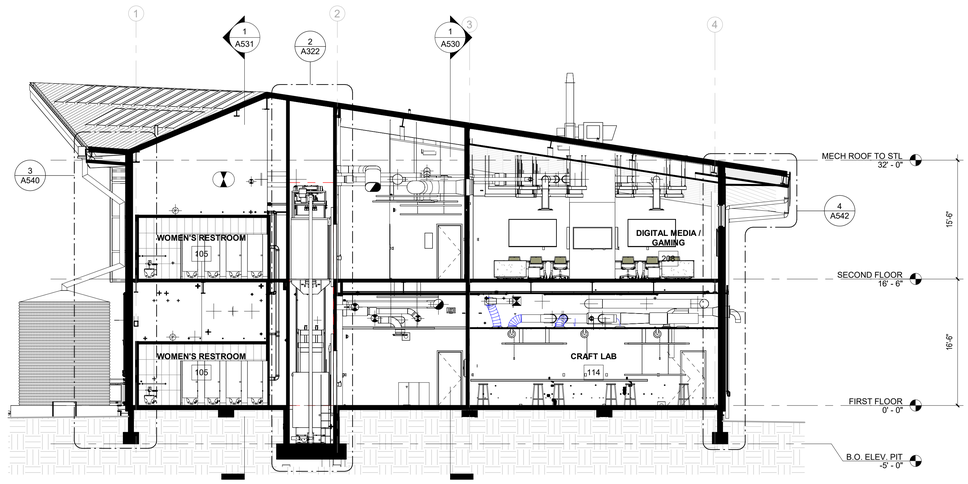
SHEET NO.

A510



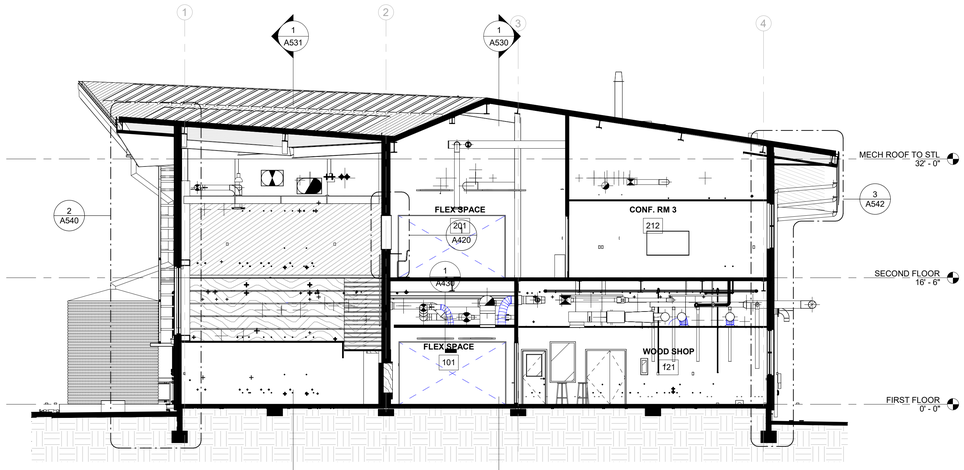
5 A211 | A530 TRANSVERSE BUILDING SECTION 4

1/8" = 1'-0"



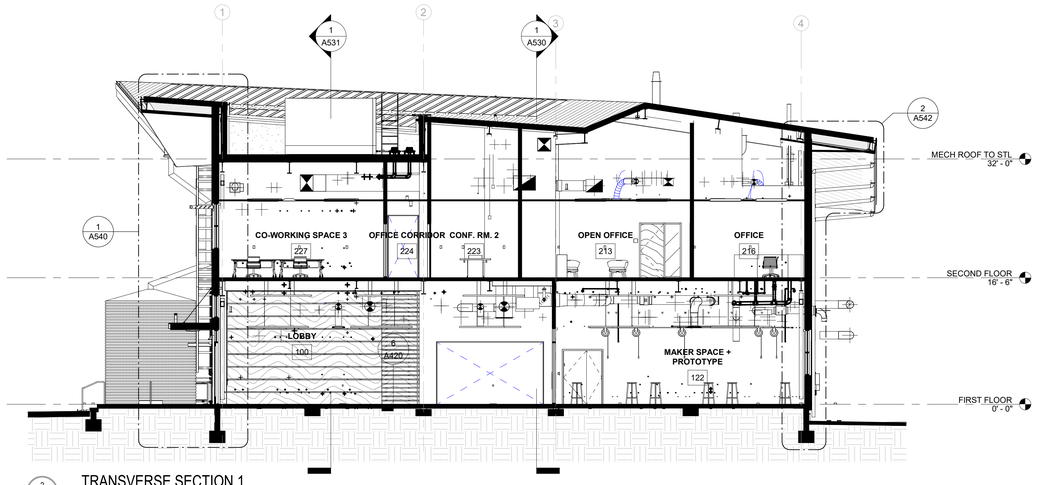
4 A211 | A530 TRANSVERSE BUILDING SECTION 3

1/8" = 1'-0"



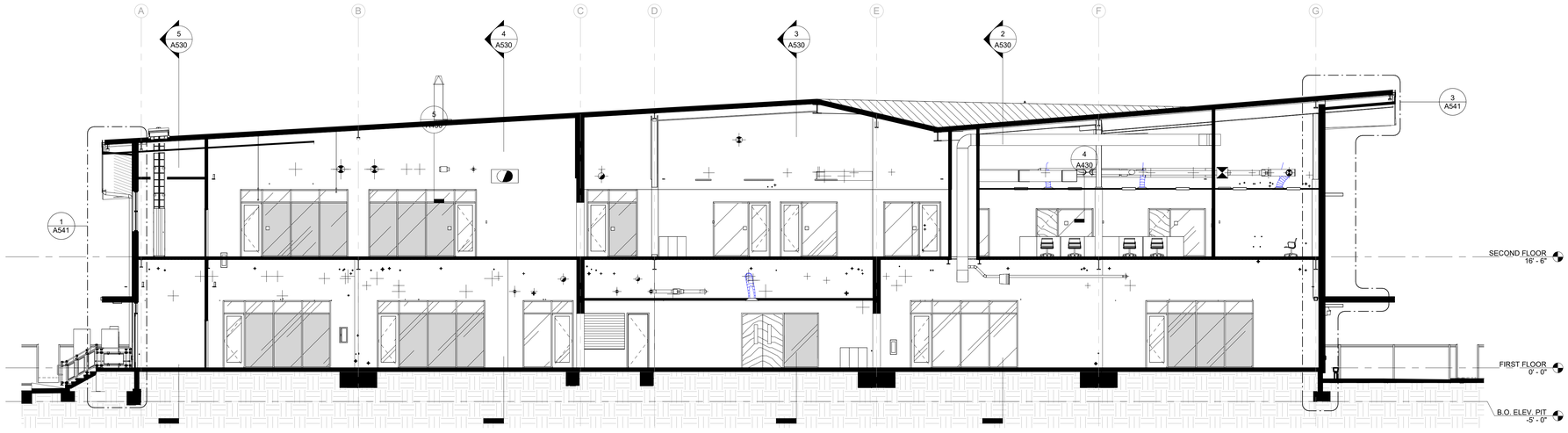
3 A211 | A530 TRANSVERSE BUILDING SECTION 2

1/8" = 1'-0"



2 A211 | A530 TRANSVERSE SECTION 1

1/8" = 1'-0"



1 A211 | A530 LONGITUDINAL BUILDING SECTION 1

1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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01/19/2026	PERMIT SET

REVISIONS

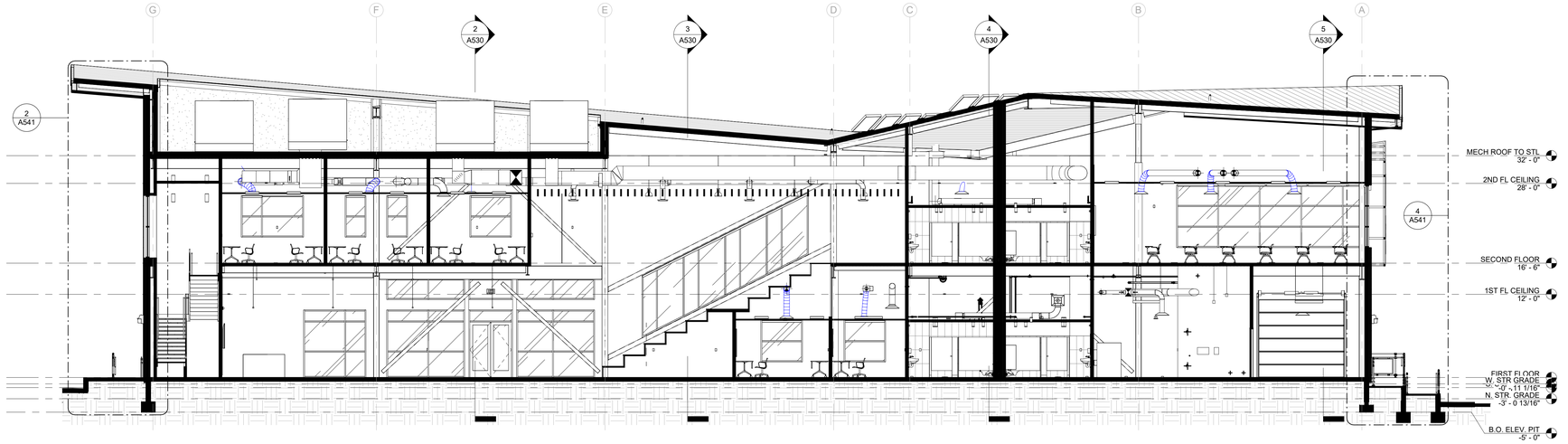
DOMINIC A. WILLARD REG. No. 75230 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

BUILDING SECTIONS

SHEET NO. A530



1
A211 | A531

LONGITUDINAL BUILDING SECTION 2

1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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REVISIONS

DOMINIC A. WILLARD, VA
REG. No. 7529
STATE OF LOUISIANA
REGISTERED ARCHITECT

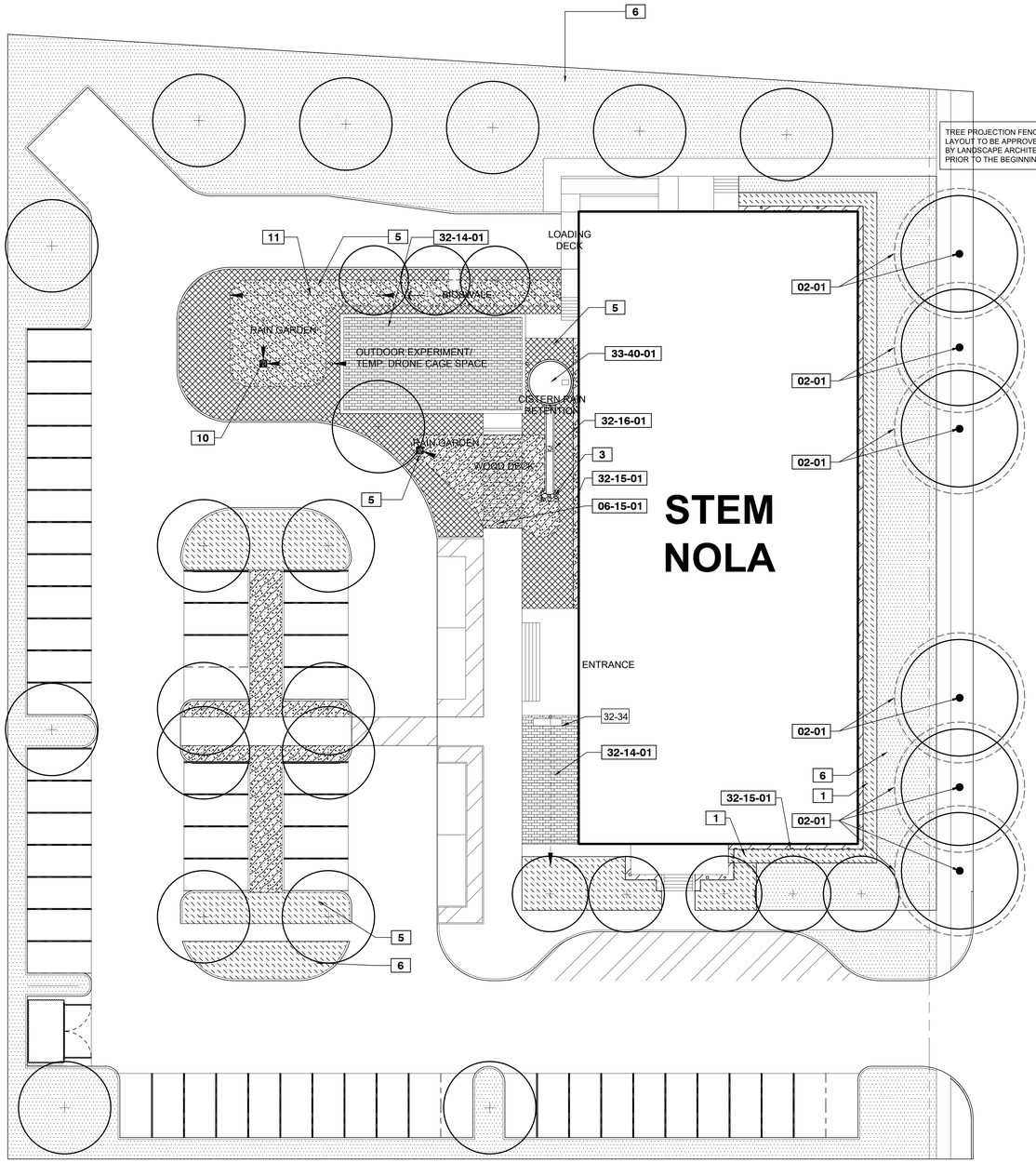
WDG Project No: 2024002

SHEET NAME

BUILDING SECTIONS

SHEET NO.

A531



A OVERALL LANDSCAPE PLAN

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION
	1	PLANTING AREA
	3	ANGULAR RIPRAP 6-12", 12" THICK, OVER NONWOVEN GEOTEXTILE
	5	BIORENTENTION PLANTING WITH BIORETENTION SOIL MIX, 12" MIN.
	6	TURF GRASS
	10	RAIN GARDEN OVERFLOW STRUCTURE SEE CIVIL FOR DETAIL. SEE L302.
	11	BIOSWALE CENTER LINE

02 EXISTING CONDITIONS

02-01	EXISTING LIVE OAKS TO REMAIN PROTECTED PER DEPT. OF PARKS AND PARKWAYS STANDARD DETAILS AND SPECIFICATIONS. NO WORK CAN COMMENCE ON SITE WITHOUT A PRECONSTRUCTION MEETING WITH THE PARKS & PARKWAYS ARBORIST.

06 WOOD, PLASTICS AND COMPOSITES

06-15-01	PT WOOD DECK USE UC3B FOR DECKING, JOISTS, AND BEAMS 316 SS FASTENERS/HANGERS TREAT FIELD CUTS W/ COPPER NAPHTHENATE PROVIDE JOIST-TOP MEMBRANES

32 EXTERIOR IMPROVEMENTS

32-14-01	3x12 AQUALINE PERMEABLE PAVERS BY BELGARD

AGGREGATE SURFACE

32-15-01	WASHED ANGULAR STONE, #3, 4" DEPTH

CURBS AND GUTTERS

32-16-01	SS SCUPPER WATER FEATURE

Site Furnishings

32-34	SINKER CYPRESS BENCH ON CONC. BASE CONC. BASE CONSIDERED INCIDENTAL

PLANTING ACCESSORIES

32-94-01	1/4" STEEL METAL EDGE, MILL FINISH

33 UTILITIES

33-40-01	15,500 GAL VERTICAL HDPE CISTERN ON REINF. CONC. PAD VINYL WRAP ON HDPE: LSE-RATED CAST FILM W/ UV LAM

CISTERN & RUNNEL NOTES

15,500 GAL HDPE CISTERN ON REINF. CONC. PAD;

6" CISTERN OVERFLOW TO RUNNEL HEADBOX — FREE DISCHARGE SPOUT W/ ≥2" AIR GAP OVER CHANNEL; ANTI-VORTEX & INSECT SCREEN AT TANK.

3" CONTROLLED DISCHARGE (MOTORIZED BALL VALVE) TO SAME HEADBOX VIA DIFFUSER PLATE; PROVIDE MANUAL BYPASS.

RUNNEL HEADBOX (24"×24"): REMOVABLE SS TRASH BASKET, DIFFUSER, AND ENERGY DISSIPATION; LIP EL. ABOVE RUNNEL FREEBOARD.

STEEL RUNNEL CHANNEL (24" W × 6" D) ON MONOLITHIC CONC. PLINTH; SLOPE 1.0% (±0.10%); CHANNEL LIP PROJECTS 3–4" PAST FACE.

ENERGY DISSIPATION APRON AT RUNNEL OUTLET — ANGULAR RIPRAP 6–12" (D50=9"), 18" THK OVER NON-WOVEN GEOTEXTILE; APRON = RUNNEL WIDTH + 24" × 36" MIN; KEY EDGES 6".

SET RUNNEL INVERT @ HEADBOX ≥3" BELOW THE OVERFLOW SPOUT INVERT.

SET HEADBOX RIM ≥2" ABOVE RUNNEL DESIGN FREEBOARD (NO SPLASHOUT UNDER OVERFLOW).

CONTROLLED DISCHARGE INVERT LOWER THAN OVERFLOW INVERT (BOTH DAYLIGHT TO SAME HEADBOX).

RUNNEL SLOPES CONTINUOUSLY TO RAIN GARDEN; NO SAGS.

RAIN GARDEN EMERGENCY SPILLWAY MUST BE LOWER THAN CISTERN MANWAY AND HIGHER THAN RAIN GARDEN RIM.

OVERFLOW AND CONTROLLED DISCHARGE BOTH ENTER THE RUNNEL; THE RUNNEL CONVEYS TO THE RAIN GARDEN. NO SEPARATE BYPASS.

MAINTAIN AIR GAP AT OVERFLOW; DO NOT SUBMERGE OVERFLOW OUTLET.

PROVIDE SCREENS AT TANK OVERFLOW AND A REMOVABLE TRASH BASKET IN HEADBOX; CLEAN AFTER STORMS AND QUARTERLY.

SIZE RUNNEL/APRON FOR OVERFLOW PEAK (≥ ROOF INLET CAPACITY FOR DESIGN STORM).

ALL STAINLESS FASTENERS AT WATER HARDWARE; POLYURETHANE SEALANT BETWEEN STEEL CHANNEL AND CONCRETE.

GENERAL NOTES

WORK COVERED BY THIS SECTION INCLUDES FURNISHING OF AND PAYING FOR ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, OTHER ITEMS, AND APPLIANCES NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE DRAWING.

PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK AND PROVIDE FOR ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITY LINES (TELEPHONE, GAS, WATER, ELECTRICAL, CABLE, ETC.) PRIOR TO START OF ANY WORK.

CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING
THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES.

NO ATTEMPT HAS BEEN MADE BY PATCH LANDSCAPE ARCHITECTURE LLC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIP, SERVITUDES, EASEMENTS, RIGHT- OF - WAYS, OR OTHER BURDENS ON THE PROPERTY OTHER THAN THAT FURNISHED BY THE CLIENT AND/OR HIS REPRESENTATIVE. CONTRACTOR SHALL CONFIRM.

THE LOCATION OF PROPERTY LINES, SERVITUDES AND UTILITIES ARE APPROXIMATE AND WERE FURNISHED BY ORIGINAL SURVEYED INFORMATION. PATCH LANDSCAPE ARCHITECTURE LLC DOES NOT WARRANT THE EXACT LOCATION OF INFORMATION SHOWN. CONTRACTOR SHALL CONFIRM

FOR UNDERGROUND INFORMATION:
LOUISIANA ONE CALL 1 800 272 3020

TREE AND LANDSCAPE PROTECTION NOTES

1. GENERAL REQUIREMENTS:
   - ALL EXISTING TREES, PLANT MATERIAL, AND NATURAL LANDSCAPE FEATURES SHOWN TO BE PRESERVED ON THE PLANS SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CITY OF NEW ORLEANS DEPARTMENT OF PARKS AND PARKWAYS.
   - PROTECTION MEASURES SHALL BE INSTALLED BEFORE ANY SITE WORK BEGINS AND SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF CONSTRUCTION OR FINAL LANDSCAPING.
2. TREE PROTECTION FENCING:
   - ERECT TREE PROTECTION FENCING AROUND THE DRIPLINE OF ALL TREES TO BE PRESERVED, UNLESS OTHERWISE NOTED. THE FENCE SHALL BE INSTALLED AT A MINIMUM OF 6 FEET FROM THE BASE OF THE TREE.
   - THE FENCING SHALL BE 4 FEET HIGH AND CONSIST OF CHAIN-LINK, OR APPROVED EQUIVALENT.
   - SIGNS SHALL BE POSTED ON THE FENCING THAT READ "TREE PROTECTION AREA - NO ENTRY."
3. ROOT ZONE PROTECTION:
   - NO CONSTRUCTION ACTIVITY, GRADING, STORAGE OF MATERIALS, OR PARKING OF VEHICLES SHALL OCCUR WITHIN THE TREE PROTECTION AREA (ROOT ZONE).
   - IF ROOTS OVER 2 INCHES IN DIAMETER ARE ENCOUNTERED DURING EXCAVATION NEAR THE PROTECTION AREA, THEY SHALL BE CLEANLY CUT AND PROTECTED BY WRAPPING IN BURLAP TO PREVENT DESICCATION. ANY EXPOSED ROOTS SHALL BE COVERED WITH SOIL OR MULCH AS SOON AS POSSIBLE.
4. MULCHING AND WATERING:
   - MAINTAIN A 4-6 INCH LAYER OF ORGANIC MULCH WITHIN THE TREE PROTECTION AREA, KEEPING THE MULCH 2-3 INCHES AWAY FROM THE TREE TRUNK.
   - ENSURE ADEQUATE IRRIGATION FOR TREES, PARTICULARLY DURING DRY PERIODS. WATER DEEPLY TO ENCOURAGE ROOT GROWTH AND REDUCE STRESS DURING CONSTRUCTION.
5. PRUNING:
   - PRUNE TREES ONLY WHEN NECESSARY AND UNDER THE SUPERVISION OF A CERTIFIED ARBORIST. ALL PRUNING SHALL CONFORM TO ANSI A300 STANDARDS.
   - ANY LIMBS THAT NEED TO BE REMOVED FOR CLEARANCE OR SAFETY SHALL BE CUT USING PROPER ARBORICULTURAL PRACTICES TO AVOID DAMAGING THE TREE.
6. PROHIBITED ACTIVITIES:
   - NO STORAGE OF CONSTRUCTION MATERIALS, SOIL, CHEMICALS, OR WASTE SHALL OCCUR WITHIN THE TREE PROTECTION AREA.
   - NO HEAVY EQUIPMENT SHALL BE DRIVEN OVER THE TREE PROTECTION AREA, AND NO TRENCHING OR COMPACTION OF SOIL SHALL OCCUR WITHIN THIS AREA.
7. LANDSCAPING WITHIN PROTECTED AREAS:
   - NEW PLANTINGS WITHIN THE TREE PROTECTION AREAS SHALL BE DONE CAREFULLY BY HAND TO AVOID DISTURBING TREE ROOTS. THE USE OF HEAVY EQUIPMENT IN THESE AREAS IS PROHIBITED.
   - CARE SHALL BE TAKEN TO PRESERVE THE INTEGRITY OF THE ROOT ZONE AND THE HEALTH OF THE TREE DURING THE INSTALLATION OF ANY LANDSCAPE MATERIALS.
8. TREE PROTECTION INSPECTION:
   - THE TREE PROTECTION MEASURES SHALL BE INSPECTED BY THE PROJECT LANDSCAPE ARCHITECT OR DESIGNATED ARBORIST PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND PERIODICALLY THROUGHOUT THE PROJECT.
   - ANY DAMAGE TO THE TREE PROTECTION FENCING OR ANY UNAUTHORIZED DISTURBANCES WITHIN THE PROTECTED AREAS MUST BE REPORTED IMMEDIATELY AND RECTIFIED TO MINIMIZE IMPACTS ON THE EXISTING TREES.
9. POST-CONSTRUCTION CARE:
   - UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL TREE PROTECTION MEASURES SHALL BE CAREFULLY REMOVED.
10. RESTORATION:
    - IN THE EVENT THAT ANY PROTECTED TREES OR LANDSCAPE ELEMENTS ARE DAMAGED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
11. SEE SHEET C300 FOR ROOT PRUNING AND BRIDGING AT CURBS AND SIDEWALKS IN PUTLIC RIGHT OF WAY.

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4435 SAINT ROCH AVE. NEW ORLEANS, LA 70122

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PERMIT

DRAWING ISSUE

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01/19/2026	PERMIT

REVISIONS

01/27/2026	TREE PROTECTION	

STATE OF LOUISIANA
Reg. No. 3646
LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
OVERALL LANDSCAPE PLAN

SHEET NO. L101

PROJECT DIRECTORY

OWNER:
STEM NOLA
4910 DREXEL DRIVE
NEW ORLEANS, LA 70125
UNITED STATES
PHONE: (504) 391-0730
CONTACT: DR. CALVIN MACKIE
EMAIL: -

OWNER'S REPRESENTATIVE:
PROGRAM ADVISORY GROUP EXECUTIVES, LLC
719 HENRY CLAY AVE.
NEW ORLEANS, LA 70118
UNITED STATES
PHONE: (504) 920-3335
CONTACT: BRIAN D. GRUBB / KEVEN KEHLENBACH
EMAIL: BGRUBB@PAGELLC.NET/ KKEHLENBACH@PAGELLC.NET

LABORATORY PLANNER:
HERA LABORATORY PLANNERS
609 E. LOCKWOOD AVE.
ST. LOUIS, MO 63119
UNITED STATES
PHONE: (314) 920-557
CONTACT: NATALIE SYZMANSKI
EMAIL: NATALIES@HERAINC.COM

CIVIL / STRUCTURAL ENGINEER:
MORPHY MAKOFSKY, INC.
336 NORMAN C. FRANCIS PKWY.
NEW ORLEANS, LA 70119
UNITED STATES
PHONE: (504) 488-1317
CONTACT: STEPHAN BERNICK
EMAIL: S_BERNICK@MMI-ENG.COM

LEED CONSULTING:
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101 MARIETTA STREET NW, SUITE 2600
ATLANTA, GA 30303
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CONTACT: LUIS TORRESCANO
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ARCHITECT:
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4455 ST. ROCH AVE.
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EMAIL: DAW@WILLARDDESIGNGROUP.COM

INTERIOR DESIGNER:
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1229 ST. THOMAS STREET, SUITE A
NEW ORLEANS, LA 70130
UNITED STATES
PHONE: (504) 432-9583
CONTACT: MIWAKO HATTORI
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SPECIFICATION WRITER:
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-
-
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PHONE: (703) 539-9604
CONTACT: ELLEN TALBOT-YASHAR
EMAIL: ELLENT@SPECGUY.COM

MEP ENGINEER:
SALAS O'BRIEN
541 JULIA STREET, SUITE 200
NEW ORLEANS, LA 70130
UNITED STATES
PHONE: (504) 930-4080
CONTACT. LANDON KINLER
EMAIL: LANDON.KINLER@SALASOBRIEN.COM

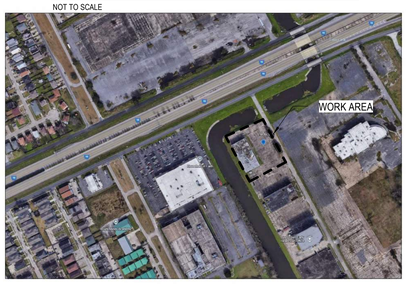
FOOD SERVICE CONSULTING:
MOYNAN CONSULTING
553 PINEY PLAINS LANE
COVINGTON, LA 70435
UNITED STATES
PHONE: (985) 674-5710
CONTACT: TRIPP MOYNAN
EMAIL: TRIPP@MOYNANCONSULTING.COM

GENERAL NOTES

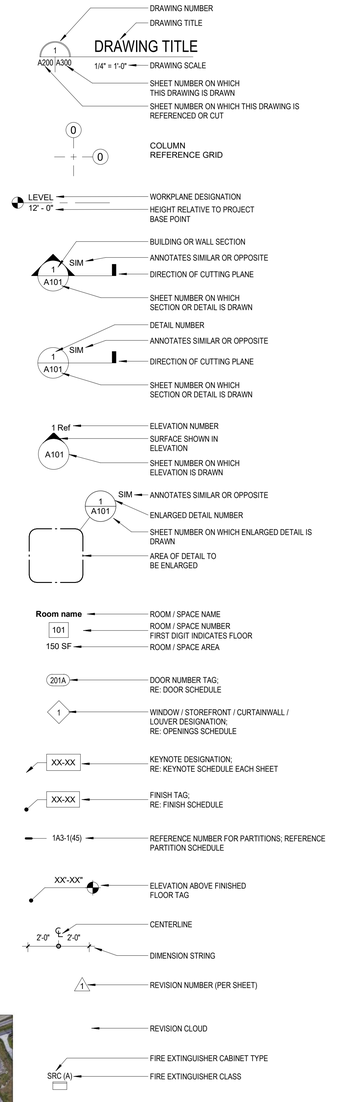
1. DIMENSIONS ARE SHOWN TO FACE OF FINISHES, U.N.O.
2. DO NOT SCALE DRAWINGS. CONSULT WITH ARCHITECT FOR CLARIFICATIONS.
3. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR BUILDING THIS PROJECT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, UNLESS OTHERWISE NOTIFIED IN WRITING BY THE OWNER OR ARCHITECT.
4. ALL WORK SHALL BE IN COMPLIANCE WITH THE CURRENT VERSION OF ALL APPLICABLE CODES AND THE AMERICAN DISABILITIES ACT. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DEFICIENCIES PRIOR TO THE COMPLETION OF WORK.
5. CONTRACTOR SHALL PROVIDE PUBLIC PROTECTIONS NECESSARY PER ALL APPLICABLE REGULATIONS.
6. CONTRACTOR WILL COORDINATE WITH OWNER FOR PARKING ON OR OFF SITE. IN ADDITION TO EQUIPMENT FOR CONSTRUCTION, PERSONAL VEHICULAR PARKING IS PERMITTED AS SPACE ALLOWS.
7. THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN HEREON ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE EXISTENCE AND ACTUAL LOCATION OF SUCH, WHETHER SHOWN HEREON OR NOT, PRIOR TO ANY EXCAVATION. ANY DAMAGES SHALL BE REPAIRED AT THE EXPENSE OF THE GENERAL CONTRACTOR.
8. ALL EXTERIOR JOINTS IN THE BUILDING ENVELOPE THAT ARE SOURCES OF WATER AND/OR AIR LEAKS SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. PENETRATIONS INTO, AND OPENINGS THROUGH AN EXIT ENCLOSURE (I.E. STAIRS) SHALL BE LIMITED TO THE FOLLOWING:
   A) DOORS PERMITTED IN NFPA 101, 7.1.3.2.1 (9)
   B) ELECTRICAL CONDUIT SERVING THE EXIT ENCLOSURE.
   C) REQUIRED EXIT DOOR OPENINGS
   D) DUCTWORK AND EQUIPMENT NECESSARY FOR INDEPENDENT STAIR PRESSURIZATION.
   E) WATER OR STEAM PIPING NECESSARY FOR THE HEATING OR COOLING OF THE EXIT ENCLOSURE.
   F) SPRINKLER PIPING.
   G) STANDPIPES.
   H) EXISTING PENETRATIONS PROTECTED IN ACCORDANCE WITH NFPA 8.3.5.
   I) PENETRATIONS FOR FIRE ALARM CIRCUITS, WHERE THE CIRCUITS ARE INSTALLED IN METAL CONDUIT AND THE PENETRATIONS ARE PROTECTED IN ACCORDANCE WITH 8.3.5.
10. FIRE BARRIERS SHALL BE CONTINUOUS FROM OUTSIDE WALL TO OUTSIDE WALL, FROM FIRE BARRIER TO ANOTHER FIRE BARRIER, OR A COMBINATION THEREOF, INCLUDING CONTINUITY THROUGH ALL CONCEALED SPACES SUCH AS THOSE FOUND ABOVE A CEILING. INCLUDING INTERSTITIAL SPACES.
11. PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIR DUCTS PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICES EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED WITH THE SAME FIRE RATING AS THE ADJACENT WALL.
12. PROVIDE STENCILING ABOVE ACCESSIBLE CEILINGS, AND IN CONCEALED SPACES AT CORRIDOR PARTITIONS, SMOKE STOP PARTITIONS, HORIZONTAL EXIT PARTITIONS EXIT ENCLOSURES, AND FIRE RATED WALLS. PRIOR TO STENCILING OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION FOR THE EXACT WORDING OF MESSAGE.
13. THE SEQUENCE OF INSTALLTION OF ALL ELEMENTS WITHIN AN ASSEMBLY, TO ASSURE THE CONSTRUCTIBILITY, IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. QUERIES BY THE GENERAL CONTRACTOR REGARDING CONSTRUCTIBILITY OF ANY ASSEMBLY SHALL BE ADDRESSED TO THE ARCHITECT FOR REVIEW IN A TIMELY MANNER, IN ORDER FOR THE ARCHITECT TO REVIEW AND COORDINATE WITH OTHER DISCIPLINES, AND TO ENSURE THE CONSTRUCTION SCHEDULE IN NOT ADVERSELY IMPACTED.
14. CONTRACTOR SHALL PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING DEMOLITION.
15. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY DEFECTS AND/OR DAMAGED/DECAYING MATERIALS FOUND IN THE EXISTING STRUCTURE OR WORK PRIOR TO ENCLOSING NEW CONSTRUCTION.
16. THE EXISTING PLAN IS DOCUMENTED ON THE DRAWINGS IN ACCORDANCE WITH A LIMITED NUMBER OF AVAILABLE ORIGINAL CONSTRUCTION DRAWINGS AND FIELD INVESTIGATIONS. VARIANCE OF ACTUAL EXISTING CONDITIONS FROM THOSE ILLUSTRATED ON THESE DOCUMENTS MAY OCCUR. THE GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT.
17. ALL EXISTING ITEMS TO REMAIN UNLESS OTHERWISE NOTED.
18. CONTRACTOR TO COORDINATE ALL SHUT DOWNS OR INTERRUPTIONS IN ANY SERVICE WITH THE OWNER PRIOR TO PROCEEDING WITH WORK.
19. ALL WOOD BLOCKING & NAILERS TO BE PRESSURE TREATED.

VICINITY MAP

NOT TO SCALE



GRAPHIC SYMBOLS



ABBREVIATIONS

ABV	ABOVE	DR	DOOR	INSUL	INSULATION	PVG	PAVING
ACOUS	ACOUSTIC(AL)	DRN	DRAIN	INT	INTERIOR, INTERNAL	PVMT	PAVEMENT
ACT	ACOUSTICAL CEILING TILE	DS	DOWN SPOUT	INTERM	INTERMEDIATE	PVT	PRIVATE
AD	AREA DRAIN	DSP	DRY STANDPIPE	INTLK	INTERLOCK(ING)	PWR	POWER
ADDL	ADDITIONAL	DTL	DETAIL	INV.	INVERT		
ADJ	ADJACENT	DW	DISHWASHER			QT	QUARRY TILE
ADJUST	ADJUSTABLE	DWG	DRAWING	JAN	JANITOR	QTY	QUANTITY
AFF	ABOVE FINISH FLOOR	DWR	DRAWER	JB	JUNCTION BOX	QUAL	QUALITY
AFG	ABOVE FINISH GRADE			JC	JANITOR'S CLOSET		
AGGR	AGGREGATE	EA	EACH	JCT	JUNCTION	R	THERMAL RESISTANCE, RISER
AHU	AIR HANDLING UNIT	EDF	ELEC. DRINKING FOUNTAIN	JST	JOIST	RA	RETURN AIR
ALUM	ALUMINUM	EJ	EXPANSION JOINT	JT	JOINT	RAD	RADIUS
ALT	ALTERNATE, ALTERATION	EL	ELEVATION			RB	RESILIENT BASE
AMT	AMOUNT	ELAST	ELASTOMERIC	KIT	KITCHEN	RC	REINFORCED CONCRETE
ANCH	ANCHOR(AGE)	ELECT	ELECTRIC(AL)	KO	KNOCKOUT	RCP	REFLECTED CEILING PLAN
ANOD	ANODIZE(D)	ELEV	ELEVATOR	KPL	KICKPLATE	RD	ROOF DRAIN
ANNUNC	ANNUNCIATOR	EMER	EMERGENCY	KVA	KILOVOLT-AMPERE	RDR	READER
ANT	ANTENNA	ENAM	ENAMEL	KW	KILOWATT	RE	REFERENCE
APPL	APPLIANCE	ENGR	ENGINEER	KWH	KILOWATT HOUR	REC	RECESSED
APPROX	APPROXIMATE	ENTR	ENTRANCE			RECEP	RECEPTACLE
APPRVD	APPROVED	EOS	EDGE OF SLAB	L	LONG, LENGTH	REF	REFRIGERATOR
ARCH	ARCHITECT(URAL)	EQ	EQUAL	LAD	LADDER	REFL	REFLECT(ED)
ASB	ASBESTOS	EQUIP	EQUIPMENT	LAM	LAMINATE(D)	REINF	REINFORCED
ASPH	ASPHALT	ETC	ET CETERA	LAT	LATERAL	REM	REMOVE
ASS	ASSEMBLY	EW	EACH WAY	LAV	LAVATORY	REQD	REQUIRED
ATTEN	ATTENUATION	EWC	ELEC. WATER COOLER	LB	POUND(S)	RES	RESISTANT
AUTH	AUTHORIZE(D)	EXIST	EXISTING	LBL	LABEL	RESIL	RESILIENT
AUTO	AUTOMATIC	EXP	EXPANSION	LBR	LUMBER	RET	RETAINING, RETURN
AVG	AVERAGE	EXT	EXTERIOR	LCD	LIQUID CRYSTAL DIODE	REV	REVISION
				LD	LEADER DRAIN	REVDR	REVOLVING DOOR
B/	BOTTOM OF	F	FAHRENHEIT	LF	LINEAR FOOT/FEET	RF	RESILIENT FLOOR(ING)
BR	BRICK	FA	FIRE ALARM, FRESH AIR	LH	LEFT HAND	RH	RIGHT HAND
BD	BOARD	FAB	FABRICATE, FABRICATION	LIB	LIBRARY	RM	ROOM
BETW	BETWEEN	FAR	FLOOR AREA RATIO	LIN	LINEAR	RO	ROUGH OPENING
BEV	BEVEL	FAST	FASTEN(ER)	LINO	LINOLEUM	ROW	RIGHT OF WAY
BIT	BITUMINOUS	FC	FOOT CANDLE	LIQ	LIQUID	RVL	REVEAL
BLDG	BUILDING	FCO	FLOOR CLEANOUT	LKR	LOCKER	RT	RESILIENT TILE
BLK	BLOCK	FC	FACE OF CURB	LM	LIMESTONE	RR	RAILROAD
BM	BEAM, BENCH MARK	FD	FLOOR DRAIN	LT	LIGHT		
BOL	BOLLARD	FDC	FIRE DPT CONNECTION	LVT	LUXURY VINYL TILE	SALV	SALVAGE
BOT	BOTTOM	FE	FIRE EXTINGUISHER	LVR	LOUVER	SAN	SANITARY
BRDG	BRIDGE, BRIDGING	FEC	FIRE EXTINGUISHER CAB.			SC	SOLID CORE
BRG	BEARING	FF	FINISH FACE	MACH	MACHINE	SCHED	SCHEDULE(D)
BRKT	BRACKET	FF&E	FIXTURES, FURNITURE & EQUIPMENT	MAINT	MAINTAIN, MAINTENANCE	SEAL	SEALANT
BRZ	BRONZE	FGR	FIBER GLASS REINFORCED	MAN	MANUAL	SECT	SECTION
BU	BUILT-UP	FH	FIRE HYDRANT, FLAT HEAD	MANUF	MANUFACTURER	SEL	SELECT
BUR	BUILT-UP ROOF	FHC	FIRE HOSE CABINET	MAR	MARBLE	SF	SQUARE FOOT/FEET
BW	BOTH WAYS	FDN	FOUNDATION	MAS	MASONRY	SFGL	SAFETY GLASS
		FIN	FINISH(ED)	MATL	MATERIAL	SGS	SILICONE GLAZING SEALANT
CAB	CABINET	FIXT	FIXTURE	MAX	MAXIMUM	SH	SHUTTER
CAP	CAPACITY	FLDG	FOLDING	MECH	MECHANICAL	SHR	SHOWER
CB	CATCH BASIN	FLEX	FLEXIBLE	MEMB	MEMBRANE	SHT	SHEET
CCTV	CLOSED CIRCUIT TV	FLR	FLOOR	MEZZ	MEZZANINE	SHTHG	SHEATHING
CEM	CEMENT(ITIOUS)	FLUOR	FLUORESCENT	MH	MANHOLE	SIM	SIMILAR
CDR	CERAMIC	FO	FINISHED OPENING	MHO	MAGNETIC HOLD OPEN	SK	SINK
CFL	COUNTERFLASHING	FOC	FACE OF CONCRETE, CURB	MIN	MINIMUM	SLV	SLEEVE
CFM	CUBIC FEET PER MINUTE	FOF	FACE OF FINISH	MIR	MIRROR	SNT	SEALANT
CG	CORNER GUARD	FOS	FACE OF SLAB, STUD	MISC	MISCELLANEOUS	SP	SOIL PIPE
CHAM	CHAMFER(ED)	FP	FIREPROOF	MK	MARK	SPEC	SPECIFICATION
CHR	CHILLED WATER RETURN	FPM	FEET PER MINUTE	MKR	MARKER	SPK	SPEAKER
CHS	CHILLED WATER SUPPLY	FR	FIRE RESISTANCE	MLDG	MOLDING	SPL	SPECIAL
CIR	CIRCLE	FRM	FRAME	MLWK	MILWORK	SPLR	SPRINKLER
CIP	CAST-IN-PLACE	FRP	FIBERGLASS REINF. PANEL	MO	MASONRY OPENING	SQ	SQUARE
CJ	CONTROL JOINT	FS	FLOOR SINK	MOV	MOVABLE	SS	STAINLESS STEEL
CL	CENTER LINE	FT	FOOT	MTD	MOUNTED	STC	SOUND TRANSMISSION CLASS
CLG	CEILING	FTG	FOOTING	MTL	METAL	STD	STANDARD
CLO	CLOSET	FURN	FINISH(ED), FURNITURE	MIN	MINIMUM	STG	SEATING
CLKG	CAULKING	FUT	FUTURE			STL	STEEL
CLR	CLEAR	FV	FIELD VERIFY	NAT	NATURAL	STOR	STORAGE
CMU	CONCRETE MASONRY UNIT	FWC	FABRIC WALL COVERING	NEUT	NEUTRAL	STRUC(T)	STRUCTURAL
CND	CONDITION	FXD	FIXED	NIC	NOT IN CONTRACT	STW	STORM WATER
CNTR	COUNTER			NO	NUMBER	SUPP	SUPPLEMENT(ARY)
CO	CLEAN OUT	GA	GAUGE	NOM	NOMINAL	SUSP	SUSPENDED
COEF	COEFFICIENT	GAL	GALLON	NRC	NOISE REDUCTION COEFFICIENT	SW	SWITCH
COLG	COILING	GALV	GALVANIZED	NTS	NOT TO SCALE	SYMM	SYMMETRICAL
COL	COLUMN	GC	GENERAL CONTRACTOR			SYN	SYNTHETIC
COM	COMMON	GD	GUTTER DRAIN	OA	OVERALL		
COMB	COMBINATION	GEN	GENERATOR	OC	ON CENTER	T	TREAD(S)
COMP	COMPRESSED	GENL	GENERAL	OD	OUTSIDE DIAMETER	T&B	TOP & BOTTOM
COMPT	COMPARTMENT	GF	GLASS FIBER	OF	OUTSIDE FACE	T&G	TONGUE & GROOVE
CONC	CONCRETE	GI	GALVANIZED IRON	OHD	OVERHEAD DOOR	TC	TOP OF CURB
CONN	CONNECTION	GKT	GASKET	OPNG	OPENING	TD	TRENCH DRAIN
CONST	CONSTRUCTION	GL	GLASS	OPP (H)	OPPOSITE (HAND)	TEL	TELEPHONE
CONT	CONTINUOUS	GND	GROUND	OPR	OPERABLE	TEMP	TEMPORARY
CONTR	CONTRACTOR	GOVT	GOVERNMENT	ORD	OVERFLOW ROOF DRAIN	TERR	TERRAZZO
COR	CORNER	GPH/M/S	GALLONS PER HOUR/MINUTE/SECOND	ORN	ORNAMENTAL	THK	THICK
CORR	CORRUGATE(D)	GR	GRADE	OUT	OUTLET	THRU	THROUGH
COV	COVER	GRN	GRANITE	OVFL	OVERFLOW	TLT	TOILET
CPR	COPPER	GYP	GYPSUM	OZ	OUNCE	TOC	TOP OF CONCRETE
CPT	CARPET	GSB	GYPSUM SHEATHING BD.			TOPO	TOPOGRAPHY, TOPOGRAPHIC
CR	CARD READER	GT	GREASE TRAP	PAR	PARAPET, PARALLEL	TOS	TOP OF STEEL
CRS	COLD ROLLED STEEL	GWB	GYPSUM WALL BOARD	PBD	PARTICLE BOARD	TRZ	TERRAZZO
CSG	CASING			PCF	POUNDS PER CUBIC FOOT	TRTD	TREATED
CSTG	CASTING	HB	HOSE BIBB	PED	PEDESTAL, PEDESTRIAN	TV	TELEVISION
CT	CERAMIC TILE	HC	HANDICAPPED, HOLLOW CORE	PERF	PERFORATED	TW	TREATED WOOD
CTD	COATED	HD	HEAD, HEAVY DUTY	PERIM	PERIMETER	TYP	TYPICAL
CTR	CENTER	HDN	HARDEN(ED)	PERP	PERPENDICULAR		
CTSK	COUNTERSUNK	HDR	HEADER	PKG	PARKING	U	HEAT TRANSFER COEFFICIENT
CU	CUBIC	HDW	HARDWARE	PKWY	PARKWAY	UH	UNIT HEATER
CV	CHECK VALVE	HDWD	HARDWOOD	PL	PLATE	UL	UNDERWRITER'S LABORATORIES
CW	COLD WATER	HEX	HEXAGONAL	PLAM	PLASTIC LAMINATE	UNO	UNLESS NOTED OTHERWISE
CWR	CONDENSATE WASTE RETURN	HGR	HANGER	PLAS	PLASTER	UR	URINAL
CWS	CONDENSATE WASTE SUPPLY	HGT	HEIGHT	PLBG	PLUMBING	UTIL	UTILITY
CYC	CYCLE	HID	HIGH INTENSITY DISCHARGE	PLF	POUNDS PER LINEAR FOOT		
CYL	CYLINDER	HM	HOLLOW METAL	PLWD	PLYWOOD	VAR	VARIES
		HORIZ	HORIZONTAL	PLTF	PLATFORM	VCT	VINYL COMPOSITION TILE
D	DEPTH	HR	HANDRAIL, HOUR(S)	PNL	PANEL	VERT	VERTICAL
DB	DECIBEL	HTG	HEATING	PNT	PAINT(ED)	VIF	VERIFY IN FIELD
DBL	DOUBLE	HTR	HEATER	POL	POLISH(ED)	VSF	VINYL SHEET FLOORING
DC	DIRECT CURRENT	HTW	HIGH TEMPERATURE WATER	POLYST	POLYSTYRENE	VWC	VINYL WALL COVERING
DEG	DEGREE	HVY	HEAVY	PORT	PORTABLE		
DEMO	DEMOLISH(ED), DEMOLITION	HW	HOT WATER	PR	PAIR	W/	WITH
DES	DESIGN(ED)	HWH	HOT WATER HEATER	PRCST	PRECAST	W/O	WITHOUT
DPT	DEPARTMENT	HWR	HOT WATER RETURN	PREFAB	PREFABRICATED	WB	WOOD BASE
DF	DRINKING FOUNTAIN	HWS	HOT WATER SUPPLY	PRI	PRIMARY	WC	WATER CLOSET
DIA	DIAMETER	HWY	HIGHWAY	PROJ	PROJECT	WF	WIDE FLANGE
DIAG	DIAGONAL	HYD	HYDRAULIC	PROP	PROPERTY	WD	WOOD
DIFF	DIFFUSER	HYDRO	HYDROSTATIC	PSF	POUNDS PER SQUARE FT	WG	WALL GUARD
DIM	DIMENSION			PSI	POUNDS PER SQUARE IN	WH	WATER HEATER
DISP	DISPENSER	ID	INSIDE DIMENSION	PT	PAINT(ED)	WT	WEIGHT
DIV	DIVISION	IN	INCH	PTC	POST-TENSIONED CONCRETE	WWF	WELDED WIRE FABRIC
DMT	DEMOUNTABLE	INCAND	INCANDESCENT	PTD	PAPER TOWEL DISPENSER	WWM	WELDED WIRE MESH
DN	DOWN	INCR	INCREASE	PTN	PARTITION		
		INFIL	INFILTRATION	PVC	POLYVINYL CHLORIDE	YD	YARD

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

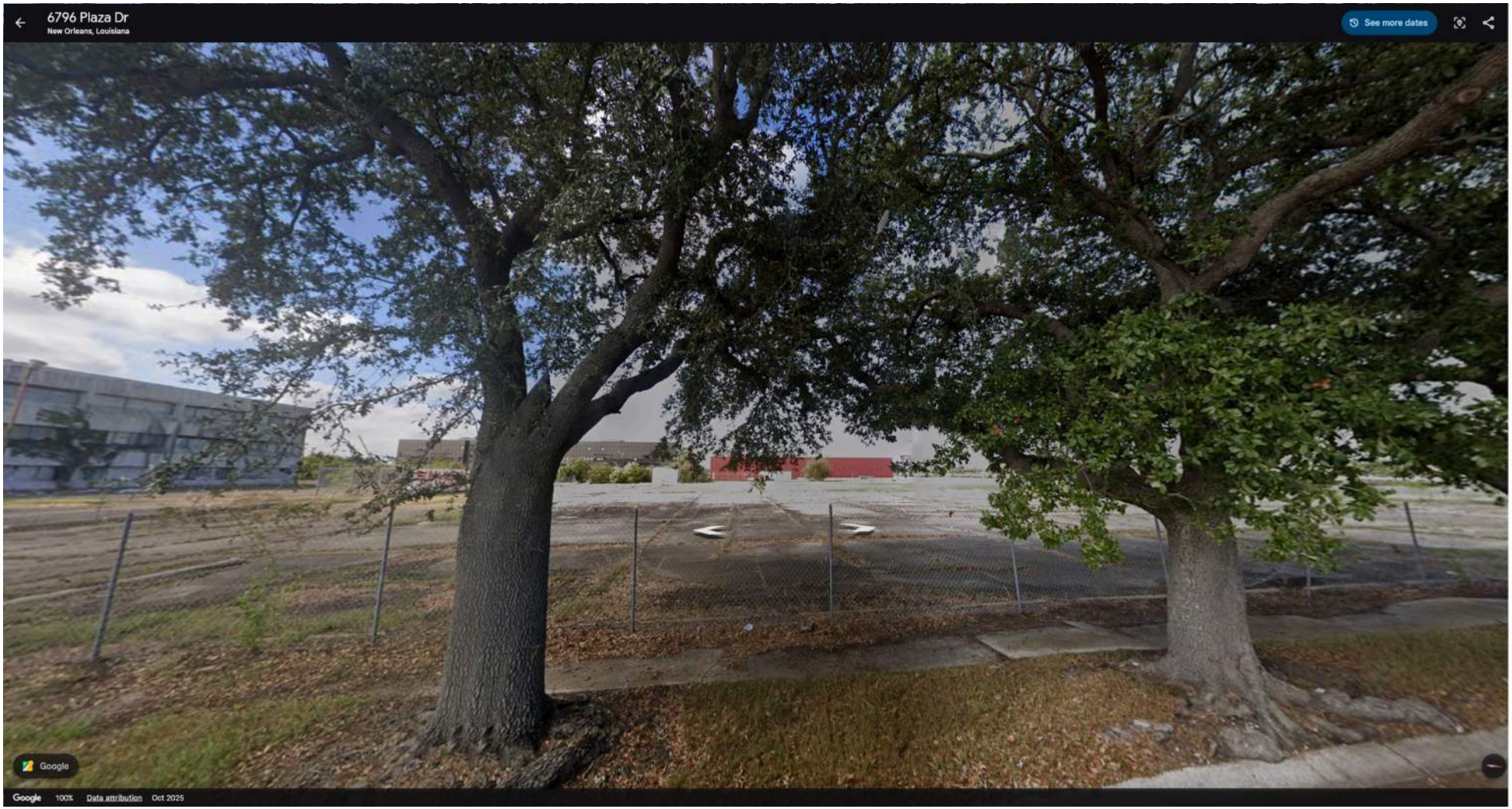
DOMINIC A. WILLARD, JR. REG. No. 38014 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

INFORMATION SHEET

SHEET NO. G001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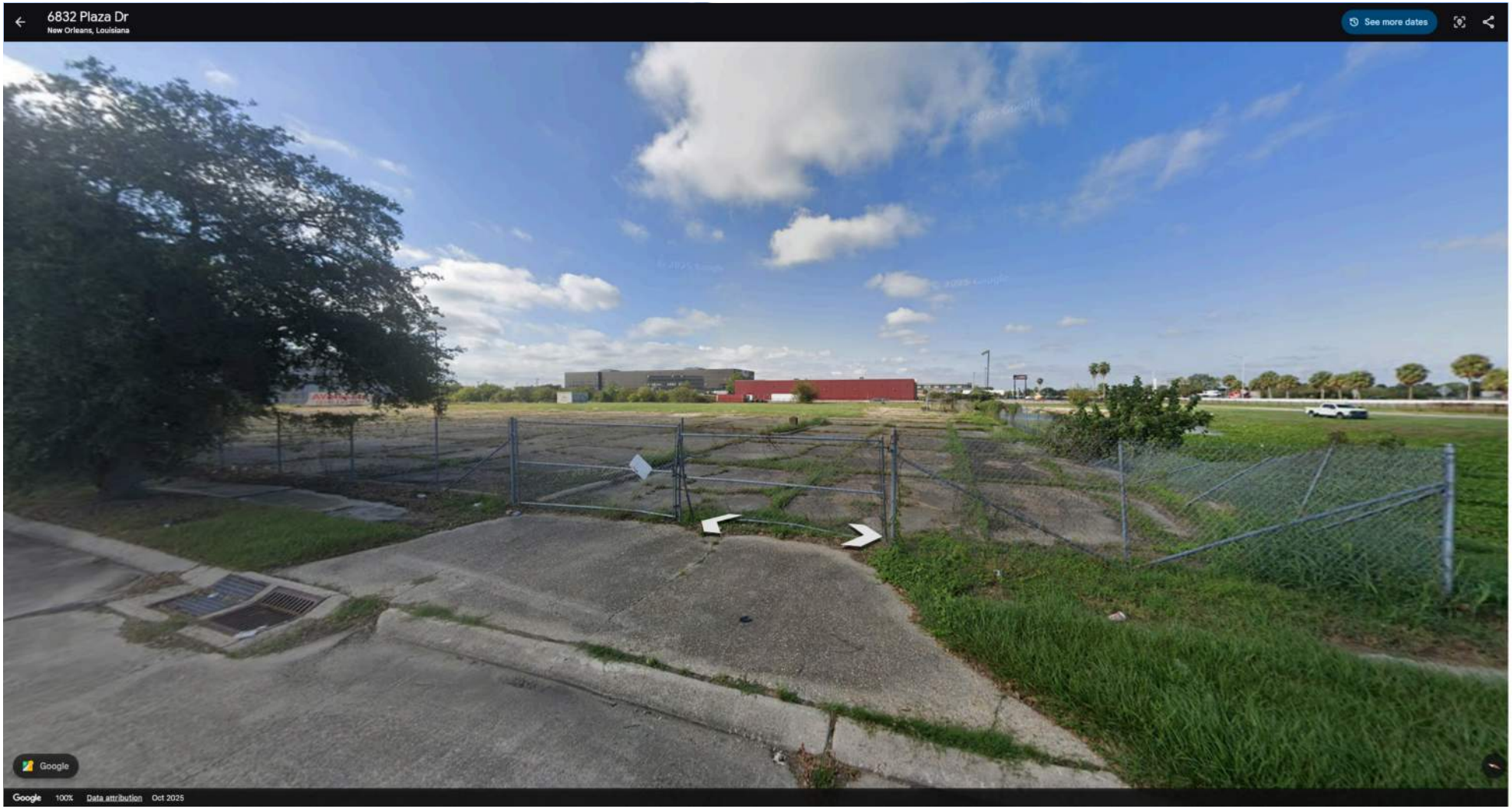
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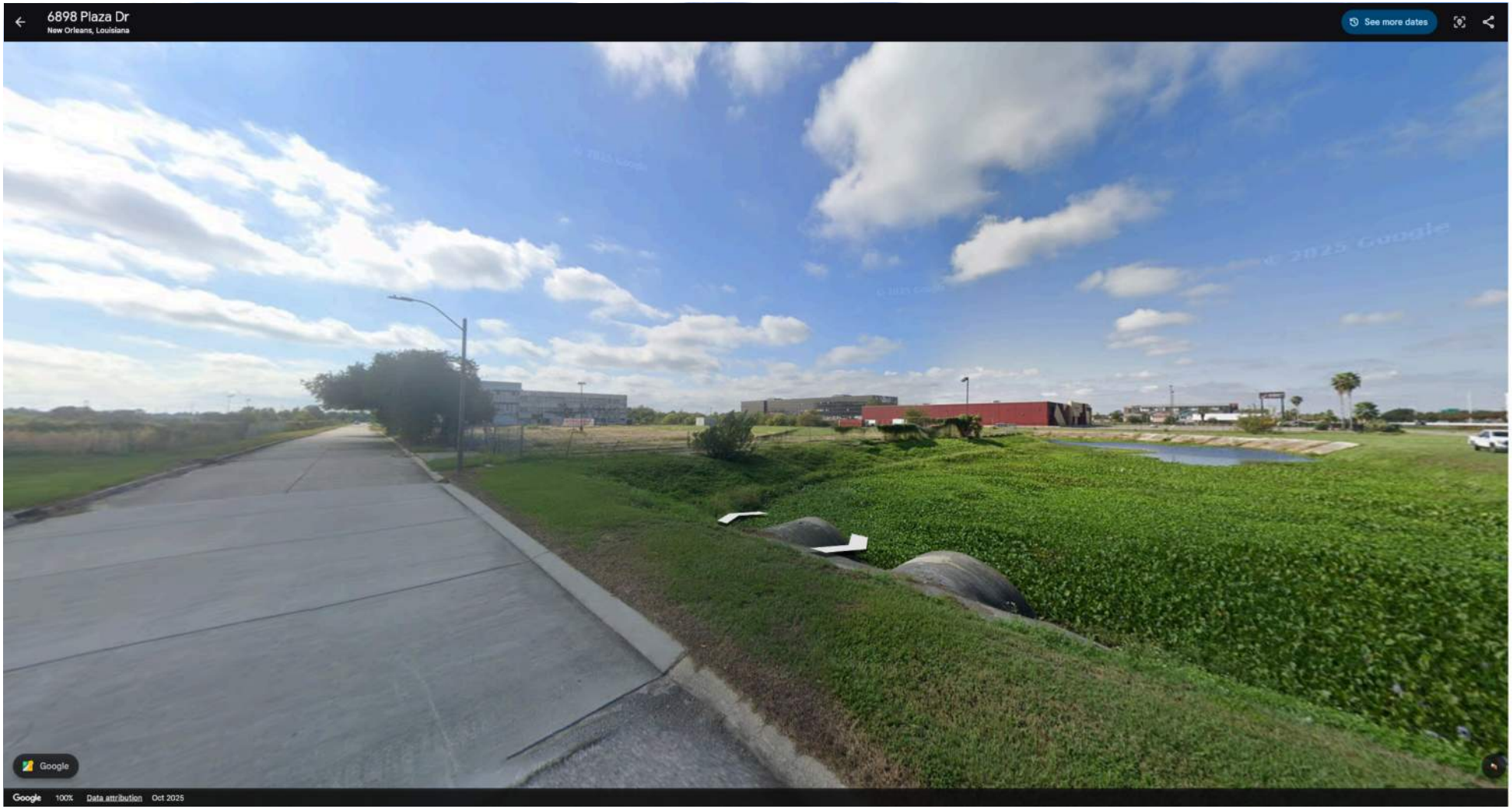
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DRAWING INDEX

DISCIPLINE	SHEET NO.	SHEET NAME	SD	50% DD	100% DD	50% CD	PERMIT
01 GENERAL							
01 GENERAL	G000	COVER SHEET		■	■	■	■
01 GENERAL	G001	INFORMATION SHEET		■	■	■	■
01 GENERAL	G002	DRAWING INDEX		■	■	■	■
01 GENERAL	G100	ADA REFERENCE GUIDELINES		■	■	■	■
01 GENERAL	G101	ADA REFERENCE GUIDELINES		■	■	■	■
01 GENERAL	G102	ADA REFERENCE GUIDELINES		■	■	■	■
01 GENERAL	G110	CODE SUMMARY & INFORMATION		■	■	■	■
01 GENERAL	G121	OVERALL LIFE SAFETY PLANS		■	■	■	■
01 GENERAL	G300	PARTITION TYPES & SCHEDULE		■	■	■	■
01 GENERAL	G301	TYP. MOUNTING HEIGHTS		■	■	■	■
03 SURVEY							
03 SURVEY	V001	SITE SURVEY		■	■	■	■
04 CIVIL							
04 CIVIL	C001	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN		■	■	■	■
04 CIVIL	C002	DEMOLITION AND EROSION AND SEDIMENT CONTROL NOTES AND DETAILS		■	■	■	■
04 CIVIL	C100	SITE AND PAVING PLAN		■	■	■	■
04 CIVIL	C101A	PART. GRADING PLAN		■	■	■	■
04 CIVIL	C101B	PART. GRADING PLAN		■	■	■	■
04 CIVIL	C102	DRAINAGE PLAN		■	■	■	■
04 CIVIL	C103	UTILITIES PLAN		■	■	■	■
04 CIVIL	C200	CIVIL GENERAL NOTES AND DETAILS		■	■	■	■
04 CIVIL	C201	CIVIL DETAILS		■	■	■	■
04 CIVIL	C300	CITY OF NEW ORLEANS DPW STANDARD DRAWINGS			■	■	■
04 CIVIL	C301	S&WB OF NEW ORLEANS STANDARD DRAWINGS				■	■
04 CIVIL	C302	S&WB OF NEW ORLEANS STANDARD DRAWINGS				■	■
05 LANDSCAPE							
05 LANDSCAPE	L101	OVERALL LANDSCAPE PLAN		■	■	■	■
05 LANDSCAPE	L201	MATERIALS & LAYOUT PLAN			■	■	■
05 LANDSCAPE	L301	LANDSCAPE SUBSURFACE GRADING PLAN					■
05 LANDSCAPE	L302	LANDSCAPE SUBSURFACE DRAINAGE PLAN					■
05 LANDSCAPE	L401	SITE DETAILS				■	■
05 LANDSCAPE	L402	BOARDWALK DETAILS				■	■
05 LANDSCAPE	L501	PLANTING PLAN				■	■
05 LANDSCAPE	L502	PLANTING DETAILS AND SPECIFICATION				■	■
05 LANDSCAPE	L601	IRRIGATION AREA PLAN				■	■
06 ARCHITECTURAL							
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06 ARCHITECTURAL	A140	SITE DETAILS		■	■	■	■
06 ARCHITECTURAL	A201	FIRST AND SECOND FLOOR SLAB PLANS		■	■	■	■
06 ARCHITECTURAL	A211	FIRST AND SECOND FLOOR PLANS	■	■	■	■	■
06 ARCHITECTURAL	A212	FIRST AND SECOND FLOOR DIMENSION PLANS	■	■	■	■	■
06 ARCHITECTURAL	A213	FIRST AND SECOND FLOOR FINISH PLANS	■	■	■	■	■
06 ARCHITECTURAL	A220	ROOF PLAN	■	■	■	■	■
06 ARCHITECTURAL	A221	CANOPY ROOFS - DETAILS	■	■	■	■	■
06 ARCHITECTURAL	A222	CANOPY ROOFS - DETAILS	■	■	■	■	■
06 ARCHITECTURAL	A231	FIRST AND SECOND FLOOR REFLECTED CEILING PLANS	■	■	■	■	■
06 ARCHITECTURAL	A251	FF&E PLANS (FOR REFERENCE ONLY)		■	■	■	
06 ARCHITECTURAL	A300	ENLARGED PLANS		■	■	■	■
06 ARCHITECTURAL	A320	ENLARGED VERTICAL CIRCULATION DETAILS		■	■	■	■
06 ARCHITECTURAL	A321	ENLARGED VERTICAL CIRCULATION DETAILS		■	■	■	■
06 ARCHITECTURAL	A322	ENLARGED VERTICAL CIRCULATION DETAILS		■	■	■	■
06 ARCHITECTURAL	A323	ENLARGED VERTICAL CIRCULATION DETAILS				■	■
06 ARCHITECTURAL	A324	ENLARGED VERTICAL CIRCULATION DETAILS		■	■	■	■
06 ARCHITECTURAL	A410	INTERIOR PLAN DETAILS		■	■	■	
06 ARCHITECTURAL	A420	INTERIOR SECTION DETAILS		■	■	■	
06 ARCHITECTURAL	A430	CELIING DETAILS		■	■	■	
06 ARCHITECTURAL	A440	MILLWORK DETAILS		■	■	■	
06 ARCHITECTURAL	A500	AXONS & PERSPECTIVES	■	■	■	■	■
06 ARCHITECTURAL	A510	EXTERIOR ELEVATIONS	■	■	■	■	■
06 ARCHITECTURAL	A530	BUILDING SECTIONS	■	■	■	■	■
06 ARCHITECTURAL	A531	BUILDING SECTIONS	■	■	■	■	■
06 ARCHITECTURAL	A540	WALL SECTIONS		■	■	■	■
06 ARCHITECTURAL	A541	WALL SECTIONS		■	■	■	■
06 ARCHITECTURAL	A542	WALL SECTIONS		■	■	■	■
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06 ARCHITECTURAL	A620	TYP. ROOF DETAILS				■	■
06 ARCHITECTURAL	A621	TYP. ROOF DETAILS				■	■
06 ARCHITECTURAL	A700	INTERIOR ELEVATIONS		■	■	■	■
06 ARCHITECTURAL	A701	INTERIOR ELEVATIONS		■	■	■	■
06 ARCHITECTURAL	A702	INTERIOR ELEVATIONS		■	■	■	■
06 ARCHITECTURAL	A800	DOOR SCHEDULES & DETAILS		■	■	■	■
06 ARCHITECTURAL	A820	EXTERIOR OPENINGS SCHEDULE & ELEVATIONS		■	■	■	■

DRAWING INDEX

DISCIPLINE	SHEET NO.	SHEET NAME	SD	50% DD	100% DD	50% CD	PERMIT
06 ARCHITECTURAL	A901	INTERIOR SCHEDULES		■	■	■	■
07 LABORATORY PLANNING							
07 LABORATORY PLANNING	QL001	ABBREVIATIONS, LEGENDS AND NOTES		■	■	■	■
07 LABORATORY PLANNING	QL010	SCHEDULES - LAB TABLES AND FUME HOODS		■	■	■	■
07 LABORATORY PLANNING	QL011	SCHEDULES - LAB SINKS AND SERVICE FITTINGS		■	■	■	■
07 LABORATORY PLANNING	QL012	SCHEDULES - LAB ACCESSORIES		■	■	■	■
07 LABORATORY PLANNING	QL020	LABORATORY EQUIPMENT MATRIX		■		■	■
07 LABORATORY PLANNING	QL030	LAB CASEWORK TYPES, LEGENDS AND NOTES		■	■	■	■
07 LABORATORY PLANNING	QL201	LEVEL 01 - OVERALL PLAN		■	■	■	■
07 LABORATORY PLANNING	QL202	LEVEL 02 - OVERALL PLAN		■	■	■	■
07 LABORATORY PLANNING	QL311	LEVEL 01 - COMPUTER / ROBOTICS ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL312	LEVEL 01 - MAKER SPACE / PROTOTYPE ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL313	LEVEL 01 - WOODWORKING / METAL SHOP ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL314	LEVEL 01 - CRAFT LAB ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL315	LEVEL 01 - WET LAB ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL316	LEVEL 02 - DIGITAL MEDIA ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL901	LABORATORY DETAILS - CASEWORK SECTIONS		■	■	■	■
08 STRUCTURAL							
08 STRUCTURAL	S001	GENERAL NOTES		■	■	■	■
08 STRUCTURAL	S002	SPECIAL INSPECTIONS		■	■	■	■
08 STRUCTURAL	S003	TYPICAL DETAILS		■	■	■	■
08 STRUCTURAL	S004	TYPICAL DETAILS		■	■	■	■
08 STRUCTURAL	S101	FIRST FLOOR & FOUNDATION FRAMING PLAN		■	■	■	■
08 STRUCTURAL	S102	SECOND FLOOR FRAMING PLAN		■	■	■	■
08 STRUCTURAL	S103	ROOF FRAMING PLAN		■	■	■	■
08 STRUCTURAL	S201	FOUNDATION SECTIONS & DETAILS				■	■
08 STRUCTURAL	S301	FRAMING SECTIONS AND DETAILS					■
08 STRUCTURAL	S401	FRAMING ELEVATIONS	■	■	■	■	■
08 STRUCTURAL	S402	FRAMING ELEVATIONS			■	■	■
10 PLUMBING							
10 PLUMBING	P100	PLUMBING SITE PLAN		■	■	■	■
10 PLUMBING	P201	PLUMBING FLOOR PLANS		■	■	■	■
10 PLUMBING	P202	PLUMBING FLOOR PLANS					■
10 PLUMBING	P211	PLUMBING ROOF PLAN		■	■	■	■
10 PLUMBING	P220	PLUMBING ENLARGED PLANS		■	■	■	■
10 PLUMBING	P230	PLUMBING RISERS				■	■
10 PLUMBING	P231	PLUMBING RISERS				■	■
10 PLUMBING	P301	PLUMBING DETAILS		■	■	■	■
10 PLUMBING	P302	PLUMBING DETAILS		■	■	■	■
10 PLUMBING	P401	PLUMBING SCHEDULES		■	■	■	■
10 PLUMBING	P402	PLUMBING SCHEDULES					■
11 MECHANICAL							
11 MECHANICAL	M201	MECHANICAL FLOOR PLANS		■	■	■	■
11 MECHANICAL	M211	MECHANICAL ROOF PLAN		■	■	■	■
11 MECHANICAL	M301	MECHANICAL DETAILS		■	■	■	■
11 MECHANICAL	M302	MECHANICAL DETAILS		■	■	■	■
11 MECHANICAL	M303	MECHANICAL DETAILS					■
11 MECHANICAL	M401	MECHANICAL SCHEDULES		■	■	■	■
12 ELECTRICAL							
12 ELECTRICAL	E100	ELECTRICAL SITE PLAN		■	■	■	■
12 ELECTRICAL	E201	LIGHTING PLAN		■	■	■	■
12 ELECTRICAL	E211	ELECTRICAL FLOOR PLANS		■	■	■	■
12 ELECTRICAL	E212	ELECTRICAL CONNECTION FLOOR PLANS			■	■	■
12 ELECTRICAL	E221	ELECTRICAL ROOF PLAN		■	■	■	■
12 ELECTRICAL	E301	ELECTRICAL DETAILS		■	■	■	■
12 ELECTRICAL	E302	ELECTRICAL PANEL SCHEDULES		■	■	■	■
12 ELECTRICAL	E303	ELECTRICAL PANEL SCHEDULES					■
12 ELECTRICAL	E401	ELECTRICAL SCHEDULES		■	■	■	■
13 TECHNOLOGY							
13 TECHNOLOGY	T000	TECHNOLOGY NOTES AND LEGENDS		■	■	■	■
13 TECHNOLOGY	T100	TECHNOLOGY SITE PLAN			■	■	■
13 TECHNOLOGY	T201	TECHNOLOGY FLOOR PLANS		■	■	■	■
13 TECHNOLOGY	T211	TECHNOLOGY ENLARGED PLANS		■	■	■	■
14 FOOD SERVICE							
14 FOOD SERVICE	K100	FOODSERVICE FLOOR PLAN & ELECTRICAL PLAN		■	■	■	■
14 FOOD SERVICE	K101	FOODSERVICE PLUMBING, DRAINAGE & WALL BLOCKING PLAN		■	■	■	■

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD III
REG. No. 7529
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

DRAWING INDEX

SHEET NO. G002

CHAPTER 3: BUILDING BLOCKS

302-Floor and Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.

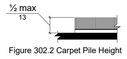


Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage 302.3 Openings. Openings in floor or ground surfaces shall not allow passage 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

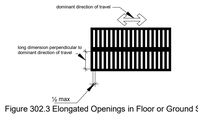


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

Figure 303.3 Beveled Change in Level

304-Turning Space / 305 Clear Floor Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

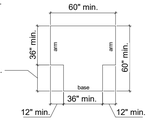


Figure 304.3.2 T-Shaped Turning Space

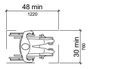


Figure 305.3 Clear Floor or Ground Space

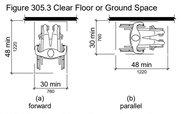


Figure 305.5 Position of Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

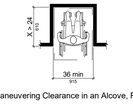


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306-Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

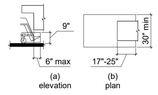


Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

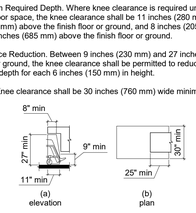


Figure 306.3 Knee Clearance

307-Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

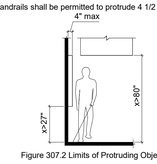


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

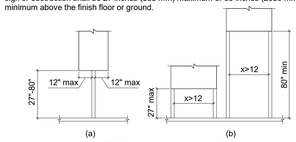


Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

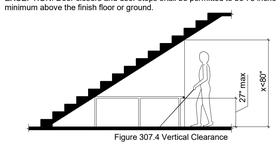


Figure 307.4 Vertical Clearance

308-Reach Ranges

Children's Reach Ranges

Foward or Side Reach	High (maximum)	Low (minimum)
Ages 3 and 4	36"	20"
Ages 5 through 8	40"	18"
Ages 9 through 12	44"	16"

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

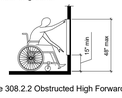


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

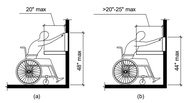
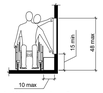


Figure 308.3.1 Unobstructed Side Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.



308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

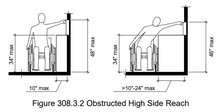


Figure 308.3.2 Obstructed High Side Reach

309-Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

402-Accessible Routes

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403-Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

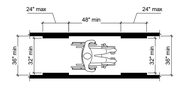


Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

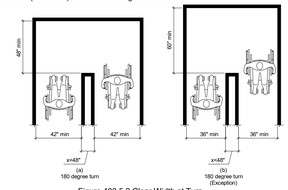


Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

404-Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

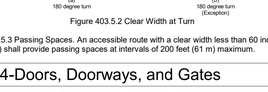


Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

Table 404.2.4.1 Maneuvering Clearances at Manuall Swinging Doors and Gates

Foward or Side Reach	High (maximum)	Low (minimum)	
Approach Direction	Door or Gate Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch side unless noted)
From front	Pull	60 inches	18 inches
From front	Push	48 inches	0 inches[1]
From hinge side	Pull	60 inches	36 inches
From hinge side	Pull	54 inches	42 inches
From hinge side	Push	42 inches[2]	22 inches[2]
From latch side	Pull	48 inches[3]	24 inches
From latch side	Push	42 inches[4]	24 inches

1. Add 12 inches if closer and latch are provided.
2. Add 6 inches if closer and latch are provided.
3. Beyond hinge side.
4. Add 6 inches if closer is provided.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

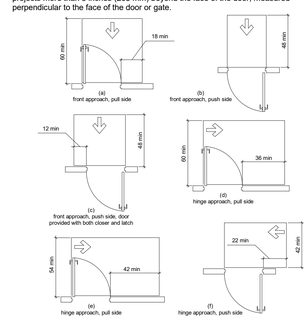


Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

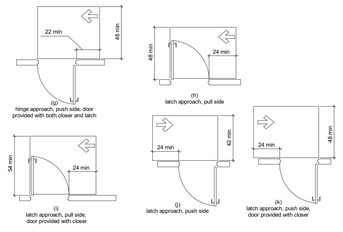


Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

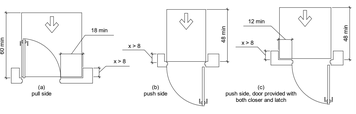


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

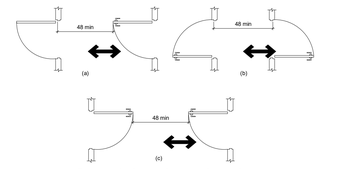


Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

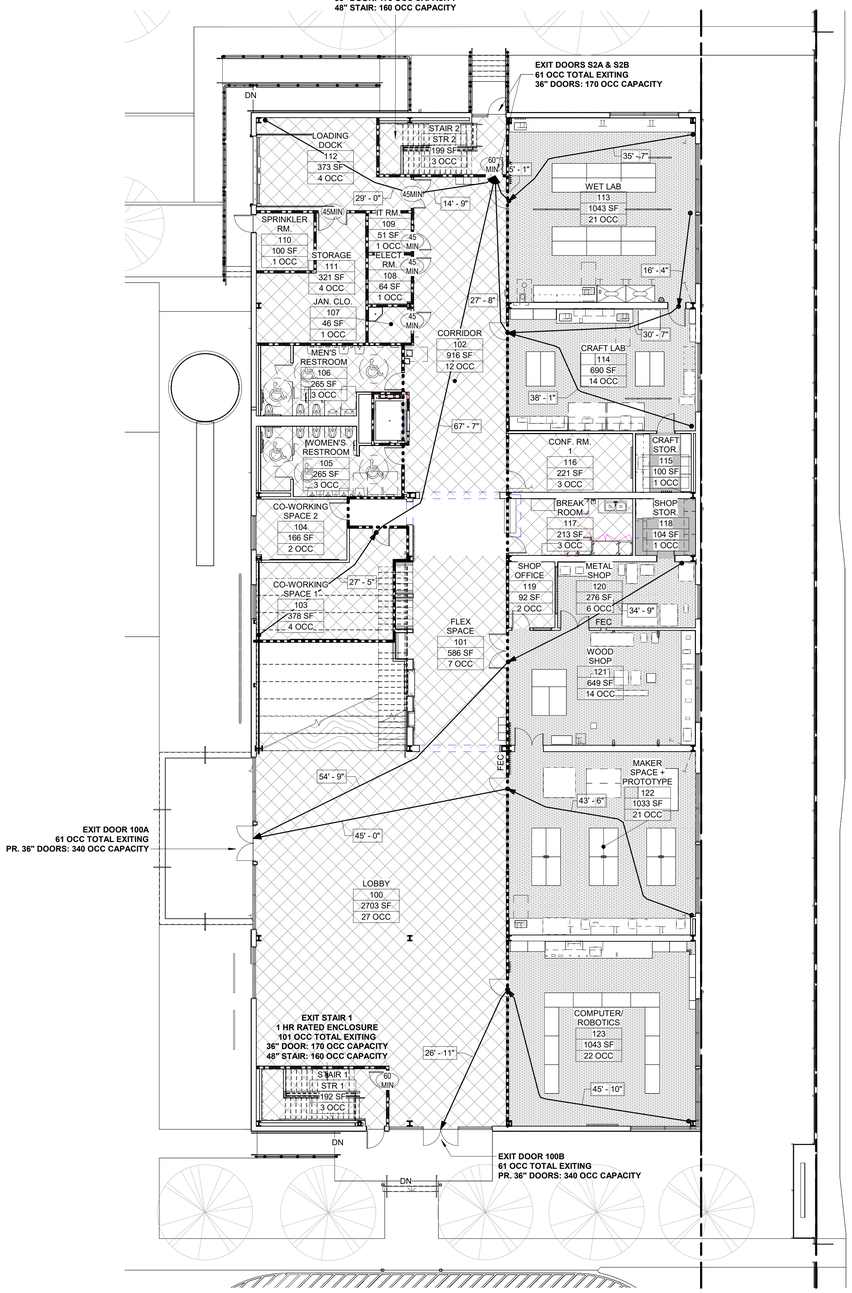
DOMINIC A. WILLARD III
REG. No. 7529
STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

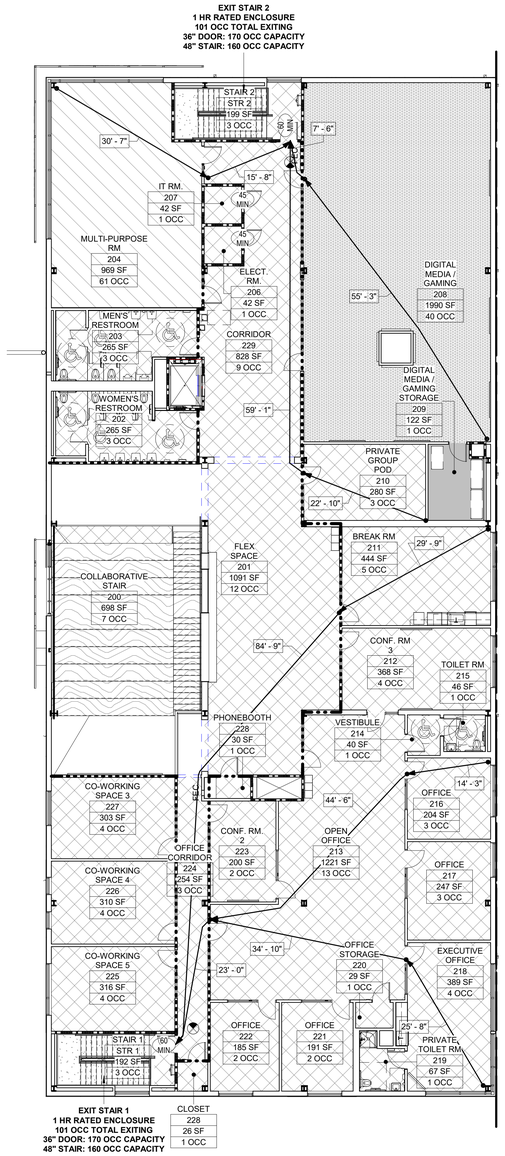
ADA REFERENCE GUIDELINES

SHEET NO. G100



1 A221 G121 FIRST FLOOR LIFE SAFETY PLAN

3/32" = 1'-0"



2 A221 G121 SECOND FLOOR LIFE SAFETY PLAN

3/32" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. RE: G110 FOR BUILDING CODE SUMMARY & INFORMATION
2. RE: G300 FOR RATED WALL TYPES & INFORMATION
3. RE: ELEC. FOR SMOKE DETECTORS, EXIT LIGHTING, & FIRE ALARM INFORMATION.

LEGEND

Name	ROOM NAME
101	ROOM NUMBER
150 SF	AREA
XXX OCC	OCC. LOAD

- FIRE WALL
- 1-HR FIRE RATED PARTITION
- 2-HR FIRE RATED PARTITION
- 3-HR FIRE RATED PARTITION
- SMOKE BARRIER
- EXIT ACCESS PATH OF TRAVEL
- COMMON PATH OF TRAVEL
- NEW EMERGENCY EXIT SIGN
- EXISTING EMERGENCY EXIT SIGN
- 1HR — DOOR FIRE RATING
- FEC — RECESSED FIRE EXTINGUISHER CABINET ABC TYPE, TYP. U.O.N.

OCCUPANCY CLASSIFICATION LEGEND

- ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED (TABLES AND CHAIRS)
- BUSINESS AREAS
- EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS

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01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD, JR. REG. No. 37909 STATE OF LOUISIANA

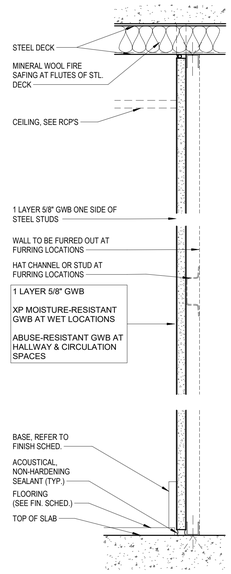
WDG Project No: 2024002

SHEET NAME

OVERALL LIFE SAFETY PLANS

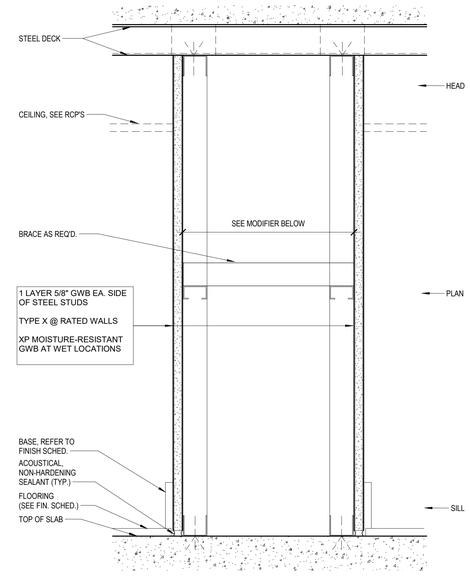
SHEET NO. G121

TYPE 5: ONE-SIDED PARTITION / FURRING



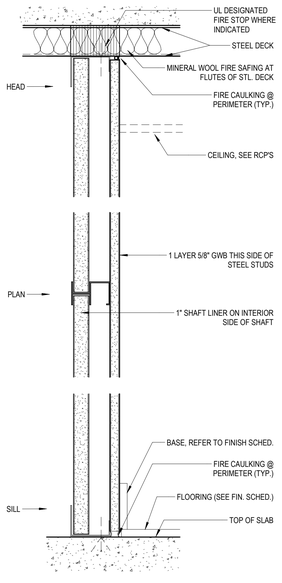
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC#
5AX-X	AS SHOWN		

TYPE 4: STEEL STUD PLUMBING CHASE



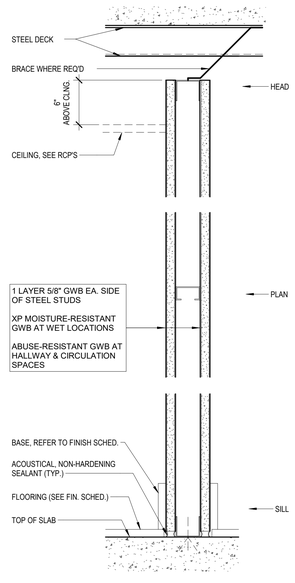
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC#
4AX-X	20" CLEAR INSIDE PLUMBING CHASE	N/A	61
4BX-X	10 1/2" CLEAR INSIDE BRACING FURR OUT	N/A	61

TYPE 3: STEEL STUD SHAFT WALL



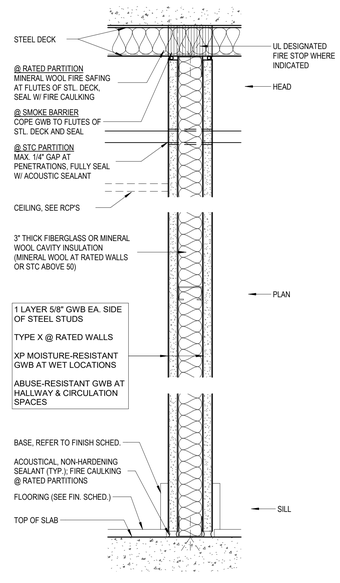
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC#
3AX-1	AS SHOWN	1-HR: U415	

TYPE 2: STEEL STUD PARTITION BELOW DECK



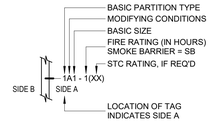
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC#
2AX-X	AS SHOWN	N/A	

TYPE 1: STEEL STUD PARTITION TO DECK



MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC#
1AX-X	AS SHOWN	1-HR: U465	45
1BX-X	AS SHOWN ABOVE, NO INSULATION	1-HR: U465	
1CX-X	(2) LAYERS TYPE-X GWB, ONE SIDE		50
1DX-X	(2) LAYERS TYPE-X GWB, EACH SIDE	2-HR: U411	55
1EX-X	(3) LAYERS TYPE-X GWB, EACH SIDE	3-HR: U419	60

PARTITION TYPE LEGEND



BASIC SIZE:

0: 7/8" x 20 GA. FURRING HAT CHANNEL
1: 1 5/8" x 20 GA. STUD
2: 2 1/2" x 20 GA. STUD
3: 3 5/8" x 20 GA. STUD
4: 4" CONCRETE, MASONRY OR 20 GA. STUD
5: 4" C-H X 1 1/2" DEEP 20 GA. STUD
6: 6" CONCRETE, MASONRY OR 20 GA. STUD
7: 8" CONCRETE, MASONRY OR 20 GA. STUD
8: 5 5/8" x 20 GA. STUD

FIRE RATING:

SB: SMOKE BARRIER
1: 1-HR FIRE BARRIER
2: 2-HR FIRE BARRIER

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REVISIONS

DOMINIC A. WILLARD, VII
REG. No. 7529
STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

PARTITION TYPES & SCHEDULE

SHEET NO.

G300

SHOWER COMPARTMENTS (SECTION 608)

SHOWER UNIT:
608.6 ADA & 608.6 ANSI

EXCEPTION a fixed shower head mounted at 48" above the shower floor may be used in lieu of the hand held shower head in facilities that are not medical facilities, long term care facilities, transient lodging guest rooms or dwelling units.

THRESHOLDS
608.7 ADA & 608.6 ANSI - Thresholds at roll in type shower compartments shall be 1/2" maximum in height in accordance with Section 303. See Below

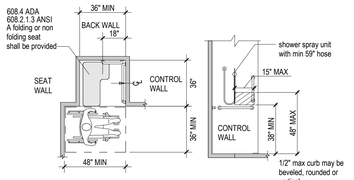
In transfer type shower compartments, thresholds 1/2" maximum in height shall be beveled, rounded or vertical.

303.2 - changes in level of 1/4" maximum in height shall be permitted to be vertical.

303.3 - changes in level greater than 1/4" in height and not more than 1/2" maximum in height shall be beveled with a slope not steeper than 1:2

608.4 ADA
A folding seat shall be provided at required transient lodging guest rooms

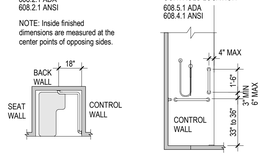
608.4 ADA
608.2.1.3 ANSI
A folding or non folding seat shall be provided



SIZE AND CLEARANCE
608.2.1 ADA
608.2.1 ANSI

NOTE: Inside finished dimensions are measured at the center points of opposing sides.

HAND SHOWER AND CONTROLS LOCATION
608.5.1 ADA
608.4.1 ANSI

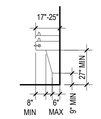


WITH SINGLE PIECE HORIZONTAL GRAB BAR
608.3.1 ADA
608.3.1.3 ANSI

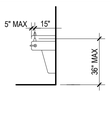
VERTICAL GRAB BAR LOCATION
608.3.1.2 ANSI

TRANSFER TYPE COMPARTMENT

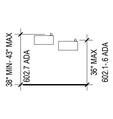
DRINKING FOUNTAINS (SECTION 602)



KNEE AND TOE CLEARANCES
306.2 & 306.3 ADA
306.2 & 306.3 ANSI

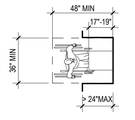


SPOUT LOCATION
602.4 & 602.5 ADA
602.4 & 602.5 ANSI

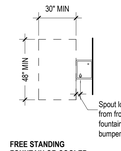


SINGLE FOUNTAIN "HIGH - LOW"
211.2 ADA Exception

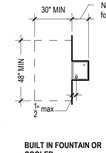
211.2 MINIMUM NUMBER - No fewer than two drinking fountains shall be provided. One drinking fountain shall comply with 602.1 through 602.6 and one drinking fountain shall comply with 602.7.
EXCEPTION: Where a single drinking fountain complies with 602.1 through 602.6 and 602.7, it shall be permitted to be substituted for two separate drinking fountains.



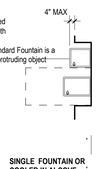
CLEARANCES AND FORWARD APPROACH
305.7 ADA
305.7 ANSI



FREE STANDING FOUNTAIN OR COOLER; OR PARALLEL APPROACH



BUILT IN FOUNTAIN OR COOLER; OR PARALLEL APPROACH



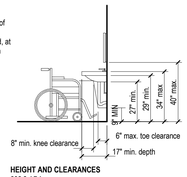
SINGLE FOUNTAIN OR COOLER IN ALCOVE
307 ADA
307 ANSI

LAVATORIES & MIRRORS

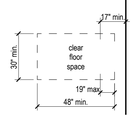
LAVATORIES WITH ENHANCED REACH RANGES:
606.5 ANSI - faucets, soap dispenser controls shall have a reach depth of 11". If automatic, activation to occur within a reach depth of 11". Water and soap flow shall be provided within 11" reach depth. 2009 IBC Section 1109.2.3 When 6 or more lavatories are required, at least one shall comply with 606.5 as well as one that complies with 606.

EXPOSED PIPES and SURFACES:
606.5 ADA & 606.6 ANSI -Water supply and drain lines under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.

MIRRORS:
603.3 ADA & 603.3 ANSI -When mirrors are located above a counter or lavatory the mirrors shall be mounted with the bottom edge of the reflecting surface no higher than 40" above the finish floor. Mirrors not located above a counter or lavatory shall be installed with the bottom edge of the reflecting surface at 35" max above the finish floor.

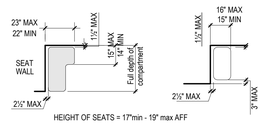


HEIGHT AND CLEARANCES
606.3 ADA
606.3 ANSI



CLEAR FLOOR SPACE
606.2 ADA
606.2 ANSI

SHOWER SEATS

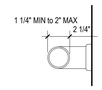


L SHAPED SEAT
610.3.2 ADA
610.3.2 ANSI

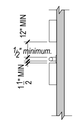
RECTANGULAR SEAT
610.3.1 ADA
610.3.1 ANSI

NOTE: If a seat is provided and it extends over the required minimum clear inside dimension, the seat shall be a folding seat. ANSI 608.4

GRAB BARS (SECTION 609)

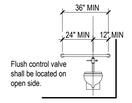


CIRCULAR
609.2.1 ADA
609.2.1 ANSI

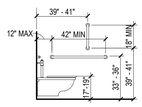


SPACING
609.3 ADA
609.3 ANSI
between the grab bars and shower controls, shower fittings, and other grab bars shall be permitted to be 1

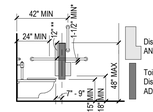
WATER CLOSETS / TOILET STALLS / URINALS



REAR WALL GRAB BARS
604.5.2 ADA
604.5.2 ANSI



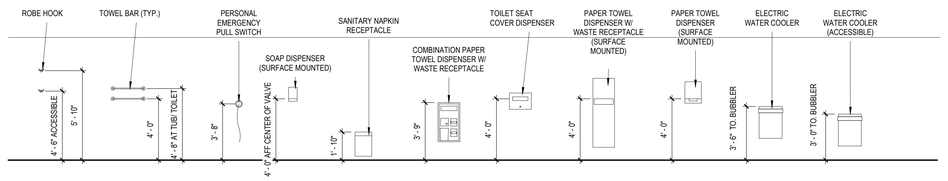
SIDE WALL GRAB BARS
604.5.1 ANSI

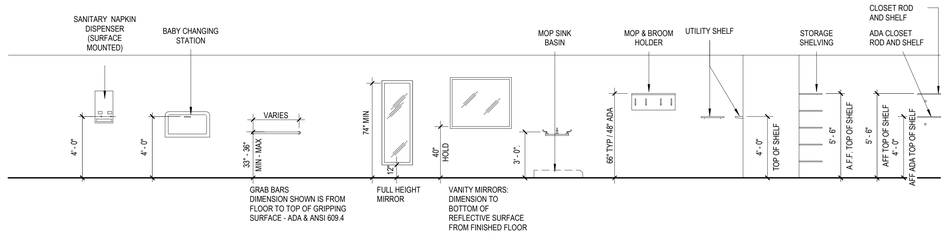


DISPENSER OUTLET LOCATIONS
604.7 & 609.3 ADA
604.7 & 609.3 ANSI

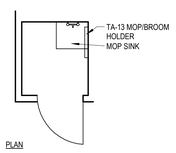
* Areas shown above are for recessed dispensers. Protruding dispenser locations are subject to additional clearances at grab bar as shown.

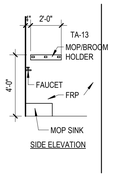
TOILET ACCESSORY MOUNTING HEIGHTS



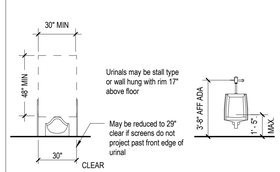


JANITORS CLOSET



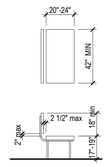


URINALS (SECTION 605)



CLEAR FLOOR SPACE
605.3 ADA
605.3 ANSI

BENCHES (SECTION 903)



BENCH SIZE
903 ADA
903 ANSI

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD JR. REG. No. 7529 STATE OF LOUISIANA REGISTERED ARCHITECT

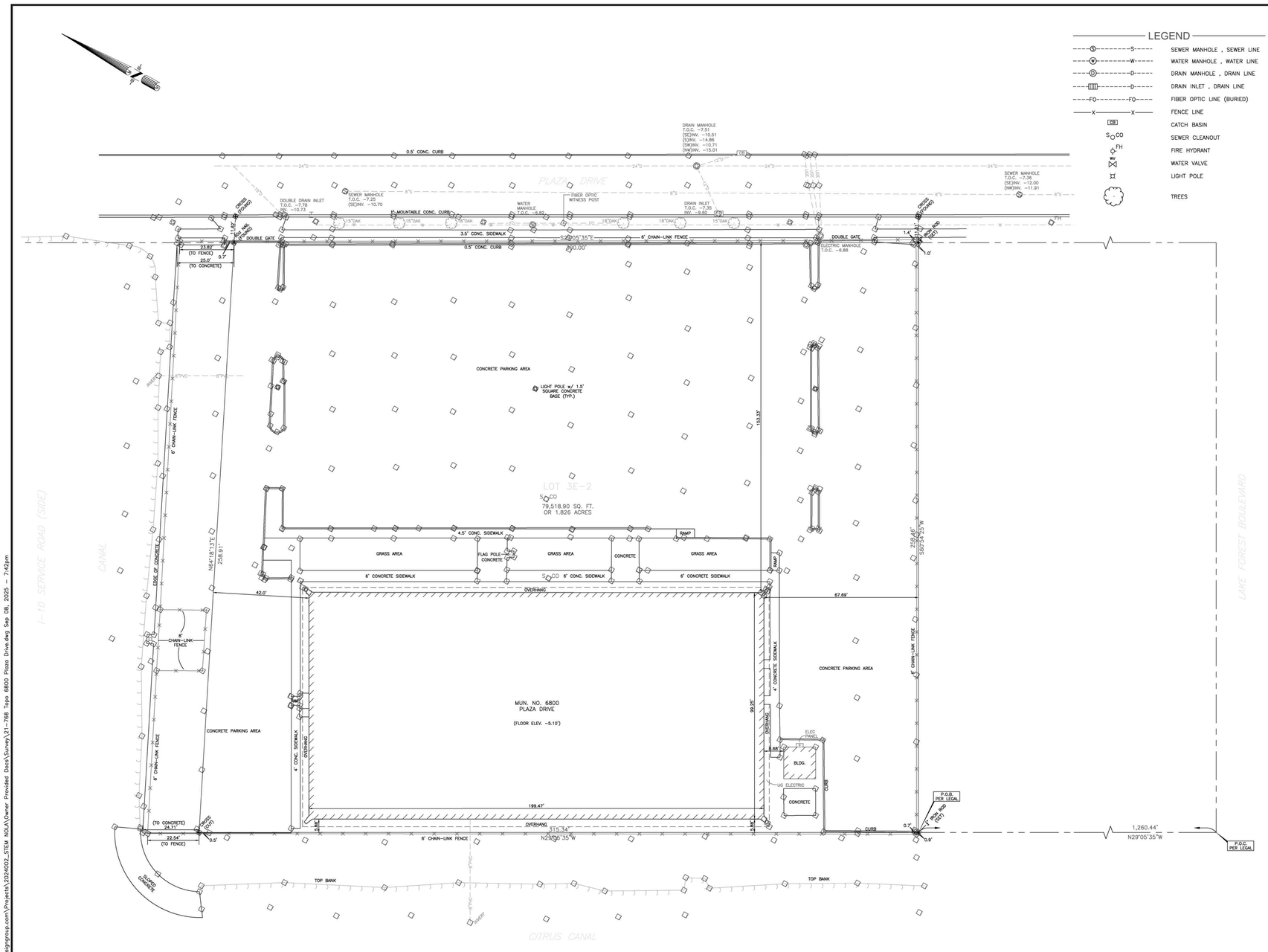
WDG Project No: 2024002

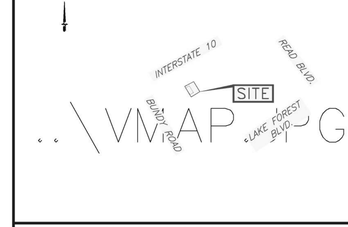
SHEET NAME

TYP. MOUNTING HEIGHTS

SHEET NO.

G301





VICINITY MAP
(NOT TO SCALE)

NOTES:
1) THE SERVITUDES SHOWN ON THIS PLAN ARE LIMITED TO THOSE FURNISHED US AND THERE IS NO REPRESENTATION THAT ALL APPLICABLE SERVITUDES ARE REFLECTED OR SHOWN HEREON. THE SURVEYOR HAS MADE NO TITLE SEARCH OR PUBLIC RECORD SEARCH IN COMPILING THE DATA FOR THIS PLAN.

2) THE PERIMETER SHOWN SHALL NOT CONSTITUTE A LEGAL OPINION OF TITLE, AND SHALL NOT BE RELIED UPON FOR THAT PURPOSE. THERE IS NO WARRANTY THAT IT CONFORMS TO THE LEGAL TITLE, AND WAS MADE SOLELY ACCORDING TO THE INFORMATION PROVIDED THE SURVEYOR.

3) CERTAIN FEATURES, I.E., FENCES, WALLS, ETC. MAY BE EXAGGERATED IN SCALE FOR CLARITY. DIMENSIONS SHOW ACTUAL LOCATION.

4) ALL FENCE DIMENSIONS ARE MEASURED FROM FACE OF FENCE. FENCE IS ON THE PROPERTY LINE IF NO DIMENSION IS GIVEN.

5) REFERENCES: LEGAL DESCRIPTION.

6) NORTH BASED ON LOUISIANA STATE PLANE COORDINATES, SOUTH ZONE.

7) MUNICIPAL NUMBER: 6800 PLAZA DRIVE, NEW ORLEANS, LA.

8) THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HEREON HAVE BEEN DETERMINED FROM DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR EXTRACTED FROM RECORDS MADE AVAILABLE TO US BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF LOCATIONS ARE SHOWN. THE ACTUAL NONVISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATION PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON, INCLUDING PRIOR TO EXCAVATION AND DIGGING.

9) DATUM: NAVD '88.

10) FLOOD ZONE: AE, EL. -7.0' AS PER MAP / PANEL NO. 22071C-0136 EFFECTIVE 09/30/2016.

SURVEY MADE AT THE REQUEST OF CENTER FOR INNOVATIVE TRAINING OF YOUTH d/b/a STEM NOLA.

12/28/2021

THE PROPERTY BOUNDARY SURVEY RECORDED HEREON WAS MADE ON THE GROUND UNDER MY DIRECT SUPERVISION, AND IS IN ACCORDANCE WITH APPLICABLE STANDARDS OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS AS STIPULATED IN LOUISIANA ADMINISTRATIVE CODE TITLE 46:LXI, CHAPTER 29 FOR A CLASS "C" SURVEY.

BY _____
RICHARD T. DADING, P.L.S.
LA REGISTRATION NO. 4399

TOPOGRAPHIC AND BOUNDARY SURVEY OF
LOT 3E-2, SECTION 23
LaKRATT TRACT
(FORMERLY THE NEW ORLEANS LAKESHORE LAND COMPANY SUBDIVISION)
THIRD MUNICIPAL DISTRICT
CITY OF NEW ORLEANS
ORLEANS PARISH, LOUISIANA

Z:\Library\Logo and letterhead\survey plat logo.jpg

SCALE:	1" = 20'	DRAWN BY:	EWP
DATE:	12/28/2021	CHECKED BY:	CAM
JOB NO.	21-768	SHEET NO.	1 OF 1

FOR REFERENCE ONLY

C:\Users\User\OneDrive - willarddesigngroup.com\Projects\2024002_STEM NOLA\Owner Provided Docs\Survey\21-768 Topo 6800 Plaza Drive.dwg Sep 08, 2025 - 7:42pm

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

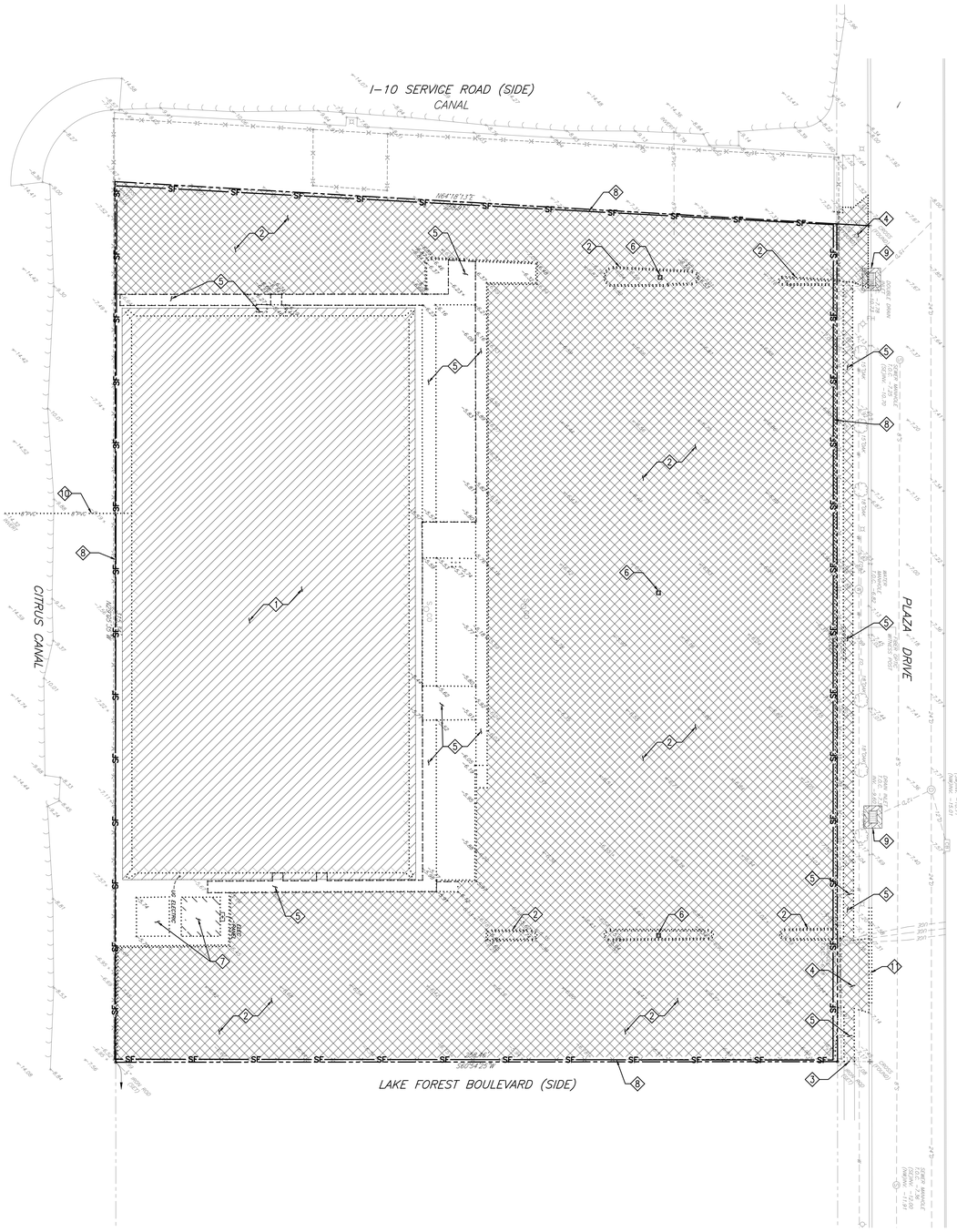
REVISIONS

DOMINIC A. WILLARD #28 REG. No. 7529 STATE OF LOUISIANA REGISTERED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
SITE SURVEY

SHEET NO. V001



DEMOLITION NOTES:

1. CONTRACTOR SHALL INSPECT PARKING LOT, ROADWAYS ADJACENT TO THE CONSTRUCTION SITE DAILY. SWEEP OR VACUUM TO REMOVE VISIBLE ACCUMULATED SEDIMENT. REMOVE ALL SEDIMENT DEPOSITED ON ROADWAY WITHIN 24 HOURS.
2. ALL DEMOLISHED, REMOVED MATERIAL AND DEBRIS SHALL BE HAULED OFF THE SITE AND DISPOSED OF IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS, REQUIREMENTS AND ORDINANCES.
3. EXISTING SIDEWALK AND PAVING TO BE REMOVED SHALL BE SCHEDULED AND COORDINATED WITH NEW PAVING. THIS WILL MINIMIZE ANY CONSTRUCTION INCONVENIENCE TO PEDESTRIAN AND VEHICULAR TRAFFIC.
4. CASTING OF ALL EXISTING STRUCTURES INVOLVED IN THE SCOPE OF CIVIL WORK SHALL BE FIELD ADJUSTED, CASTING TO BE FLUSHED WITH NEW PAVING OR FINISHED GRADE.
5. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN ALL PERIMETER CATCH BASINS AND DRAIN INLETS AND CONNECTING DRAIN LINES TO MAINTAIN POSITIVE DRAINAGE FLOW AND RESTORE SERVICES.
6. IT IS CONTRACTOR'S RESPONSIBILITY AND MEANS & METHOD TO PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM FLOWING INTO EXCAVATIONS AND FROM FLOODING THE PROJECT SITE AND SURROUNDING AREAS. SEE EARTHWORK SPECIFICATION 312000 FOR DEWATERING.

DEMOLITION PLAN KEY NOTES:

1. EXTENTS OF PREVIOUSLY DEMOLISHED BUILDING (SHOWN HEREON FOR REFERENCE PURPOSES ONLY). CUT OFF PILES 3 FOOT BELOW FINISHED GRADE OF NEW PAVING. COORDINATE WITH GRADING PLAN.
2. EXISTING CONCRETE PAVING AND CURBED ISLANDS TO BE DEMOLISHED AND REMOVED FROM SITE.
3. SAWCUT EXIST. PAVING TO MAINTAIN STRAIGHT EDGE – TYP.
4. EXISTING CONCRETE DRIVEWAY ENTRANCE TO BE DEMOLISHED AND REMOVED.
5. DEMOLISH AND REMOVE EXISTING CONCRETE SIDEWALK.
6. DEMOLISH AND REMOVE ELECTRICAL LIGHT POLE SUPPORTS AND APPURTENANCES, SEE MEP.
7. EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND/OR RELOCATED, SEE ARCH.
8. SEDIMENT (SILT) FENCE. SEE 2/C002 AND 3/C002 – TYP. LOCATION OF SILT FENCE SHOWN HEREON FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL ADJUST SILT FENCE AS REQUIRED BASED ON CONSTRUCTION ACTIVITIES, SEQUENCING AND METHODOLOGIES.
9. PROVIDE SEDIMENT CONTROL AT EXISTING CATCH BASINS TO PREVENT DIRT, DEBRIS, SEDIMENT ENTERING INTO EXISTING SUBSURFACE DRAINAGE SYSTEM. SEE 5/C002 – TYP.
10. EXISTING DRAIN LINE TO BE REMOVED AND REPLACED WITH NEW DRAIN LINE.
11. SECTION OF EXIST. MOUNTABLE CURB TO BE DEMOLISHED AND REPLACED FOR INSTALLATION OF NEW HEAVY-DUTY DRIVEWAY WITH MOUNTABLE CURB PER CITY OF NEW ORLEANS DPW STANDARD DRAWINGS AND REQUIREMENTS.

DEMOLITION, EROSION AND SEDIMENT CONTROL PLAN LEGEND

- EXISTING ITEMS TO BE REMOVED
- SF — SEDIMENT (SILT) FENCE, SEE 2/C002 AND 3/C002
- EXTENTS OF PREVIOUSLY DEMOLISHED BUILDING, SEE PLAN KEY NOTE #1
- EXISTING CONCRETE PAVEMENT TO BE DEMOLISHED AND REMOVED
- PROVIDE SEDIMENT CONTROL AT EXISTING DRAIN INLETS, SEE 5/C002

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 C001 DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN
1"=20'

811 Know what's below. Call before you dig.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CITY REQUIREMENTS. I AM GENERALLY ADMINISTERING THE WORK.

ENGINEER _____
REG. NO. _____

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. No. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

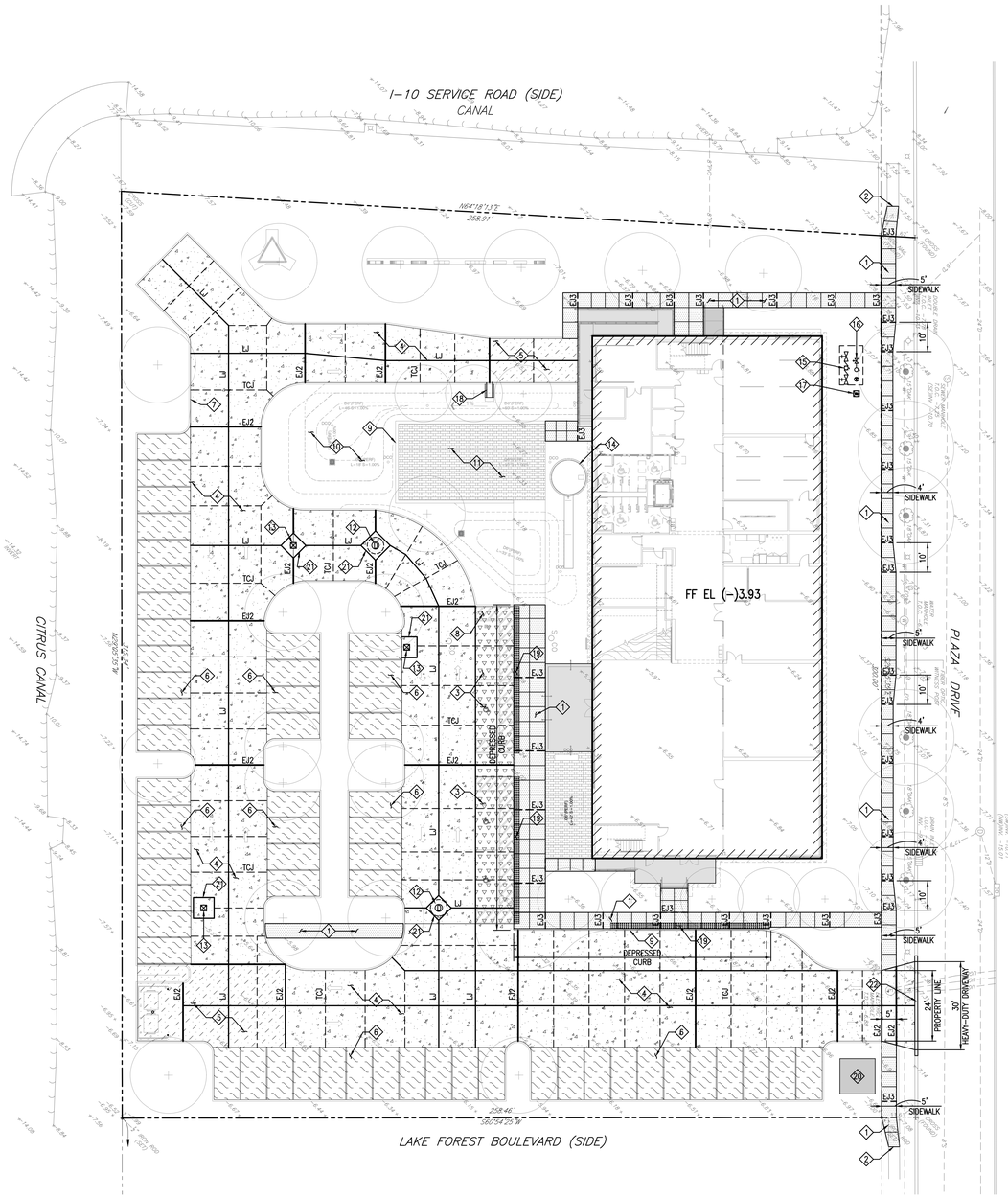
WDG Project No: 2024002

SHEET NAME

DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN

SHEET NO. C001

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001



SITE PLAN KEY NOTES:

1. CONCRETE SIDEWALK PAVING – TYP., SEE 2/C200.
2. TIE-IN NEW SIDEWALK PAVING INTO EXISTING SIDEWALK PAVEMENT, SEE 3/C200.
3. LIGHT-DUTY CONCRETE PAVING, SEE 4/C200.
4. HEAVY-DUTY CONCRETE PAVING, SEE 4/C200.
5. SUPER HEAVY-DUTY CONCRETE PAVING, SEE 4/C200.
6. PERMEABLE PAVING – TRUEGRID PRO-PLUS HEAVY DUTY PAVERS, WITH PARKING DELINEATORS. SEE C201.
7. CONCRETE VERTICAL CURB, SEE 4/C200.
8. PARKING STRIPING – TYP., SEE 5/C201.
9. DEPRESSED CONCRETE CURB.
10. BIORETENTION RAIN GARDEN, SEE LANDSCAPE.
11. PERMEABLE CONCRETE UNIT PAVERS, SEE LANDSCAPE.
12. DRAIN MANHOLE, SEE C102.
13. DRAIN INLET, SEE C102.
14. ABOVE GROUND CISTERN TANK WITH RUNNEL, SEE LANDSCAPE.
15. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTER FOR FIRE WATER, SEE C103.
16. REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER (LEAD FREE) FOR DOMESTIC WATER, SEE C103.
17. S&WB SUPPLIED WATER METER FOR DOMESTIC WATER, SEE C103.
18. CONCRETE FLUME WITH 6" VERTICAL CURB, SEE C102.
19. DETECTABLE WARNING SURFACE, SEE 10/C200.
20. TRANSFORMER PAD. SEE STRUCTURAL DRAWING 13/S001.
21. LONGITUDINAL JOINT AROUND DRAIN STRUCTURE WITH 2-#4 DIAGONAL REBAR AT EACH CORNER – TYP.
22. SECTION OF EXISTING MOUNTABLE CURB TO BE DEMOLISHED AND REPLACED FOR INSTALLATION OF NEW HEAVY-DUTY DRIVEWAY WITH MOUNTABLE CURB PER CITY OF NEW ORLEANS DPW STANDARD DRAWINGS AND REQUIREMENTS.

PAVING PLAN LEGEND

- PORTLAND CEMENT CONCRETE SIDEWALK – 4" THK. SEE 2/C200.
- TRUEGRID PAVERS – PARKING SEE 1/C201
- PORTLAND CEMENT CONCRETE ADA PARKING – 6" THK. SEE 4/C200.
- HEAVY DUTY PORTLAND CEMENT CONCRETE DUMPSTER PAD – 10" THK., SEE 4/C200.
- HEAVY DUTY PORTLAND CEMENT CONCRETE DRIVEWAY AND ENTRANCE – 8" THK. SEE 4/C200.
- DETECTABLE WARNING SURFACE. SEE .

JOINTING LEGEND

- EJ1 — PROVIDE ½" PREFORMED, NON-EXTRUDING TYPE EXPANSION JOINT FILLER MATERIAL WITH JOINT SEALANT ON TOP (W/WIDTH/DEPTH EQUAL) AT THE INTERFACE OF STRUCTURAL PAVING/BUILDING AND SITE PAVING – TYP.
- EJ2 — DOWELED EXPANSION JOINT (EJ2) – SEE 9/C200
- EJ3 — ½" SIDEWALK EXPANSION JOINT SEE 2/C200 – TYP. PROVIDE TOOLED JOINT FOR SIDEWALK PAVING. SPACING SHALL NOT TO EXCEED 5'
- LJ — KEYED TIED LONGITUDINAL JOINT (LJ) – SEE 9/C200
- TCJ — TRANSVERSE CONTROL (SAW-CUT) JOINT (TCJ) – SEE 9/C200 SPACING SHALL NOT EXCEED 15'

PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 / C100 SITE AND PAVING PLAN
1"=20'

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CITY REQUIREMENTS. I AM GENERALLY ADMINISTERING THE WORK.

ENGINEER — REG. NO.

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

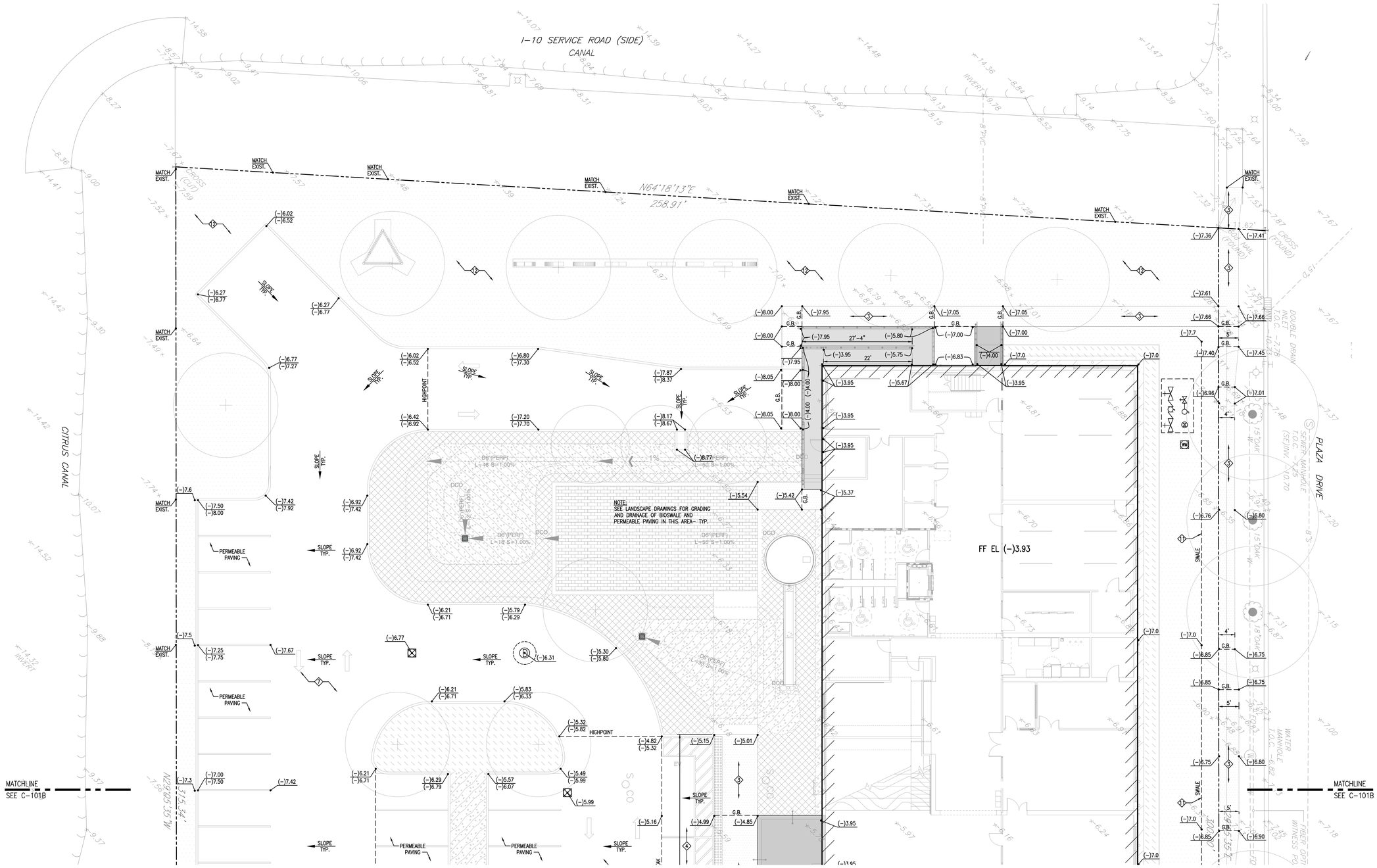
WDG Project No: 2024002

SHEET NAME

SITE AND PAVING PLAN

SHEET NO. C100

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001



PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▬ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

10 5 0 10 20
SCALE: 1" = 10'

1 / C101A PART. GRADING PLAN 1"=10'

GRADING PLAN NOTES:
1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES PRIOR TO CONSTRUCTION. NOTIFY A/E IMMEDIATELY IF ANY GRADE CONFLICT IS ENCOUNTERED WHEN MATCHING OR TIE-INTO EXISTING GRADES.
2. CONTRACTOR SHALL NOTIFY A/E IMMEDIATELY IF ANY CONFLICT OR DISCREPANCY IS IDENTIFIED WITH NEW FINISHED GRADES.
3. PAVEMENT AND SIDEWALK RUNNING SLOPE AND CROSS SLOPE SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND DPW STANDARDS. RUNNING SLOPE NOT TO EXCEED 1 IN 20 (5%) AND CROSS SLOPE NOT TO EXCEED 1 IN 50 (2%).
4. PAVEMENT SLOPE OF HANDICAP PARKING SPACES SHALL NOT EXCEED 2% IN ALL DIRECTIONS AND SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
5. PAVEMENT SLOPE OF ALL ADA ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE MINIMUM OF 5' LANDING AT THE DOORS, ADA CURB RAMPS AND PEDESTRIAN FENCE GATES IN ACCORDANCE WITH ADA REQUIREMENTS. SLOPE FOR LANDING SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN. SLOPE NOT TO EXCEED 1 IN 50 (2%) IN ALL DIRECTIONS.
7. SLOPE PAVING UNIFORMLY TOWARDS PERMEABLE PAVING AS NOTED ON PLANS. ENSURE POSITIVE SLOPE AND DRAINAGE IS MAINTAINED. NOTIFY A/E IF ANY DISCREPANCY WITH FINISHED GRADES.
8. HEIGHT OF CURB VARIES.
9. DEPRESSED CURB FLUSH/LEVEL WITH PARKING PAVING.
10. PROVIDE 5'-0" TRANSITION FROM VERTICAL CURB (HEIGHT VARIES) TO ZERO (0") CURB WHERE CURB MEETS SIDEWALK PAVING IN THE RIGHT-OF-WAY.
11. CUT-IN SWALE. REGRADE GRASSY AREA UNIFORMLY TOWARDS SWALE.
12. RE-GRADE AND SLOPE OPEN AREA TO MATCH EXISTING GRADE. SLOPE UNIFORMLY (CONSISTENT SLOPE) – 4(H):1(V) MAX. SLOPE.
13. CASTING OR GRATE ELEVATION OF ALL EXISTING STRUCTURES INVOLVED IN THE SCOPE OF CIVIL WORK TO BE FIELD ADJUSTED, TOP CASTING SHALL BE FLUSHED WITH NEW PAVING OR FINISHED GRADE OF GRASSY AREAS.
14. STREET REPAIRS AND NEW PAVING IN THE RIGHT-OF-WAY SHALL BE IN COMPLIANCE AND REQUIREMENTS WITH CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS.
15. PROVIDE DRAINAGE STRUCTURES AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD AND/OR THE LOUISIANA DOTD.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

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01/19/2026	PERMIT SET

REVISIONS

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ENGINEER

REG. NO.

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

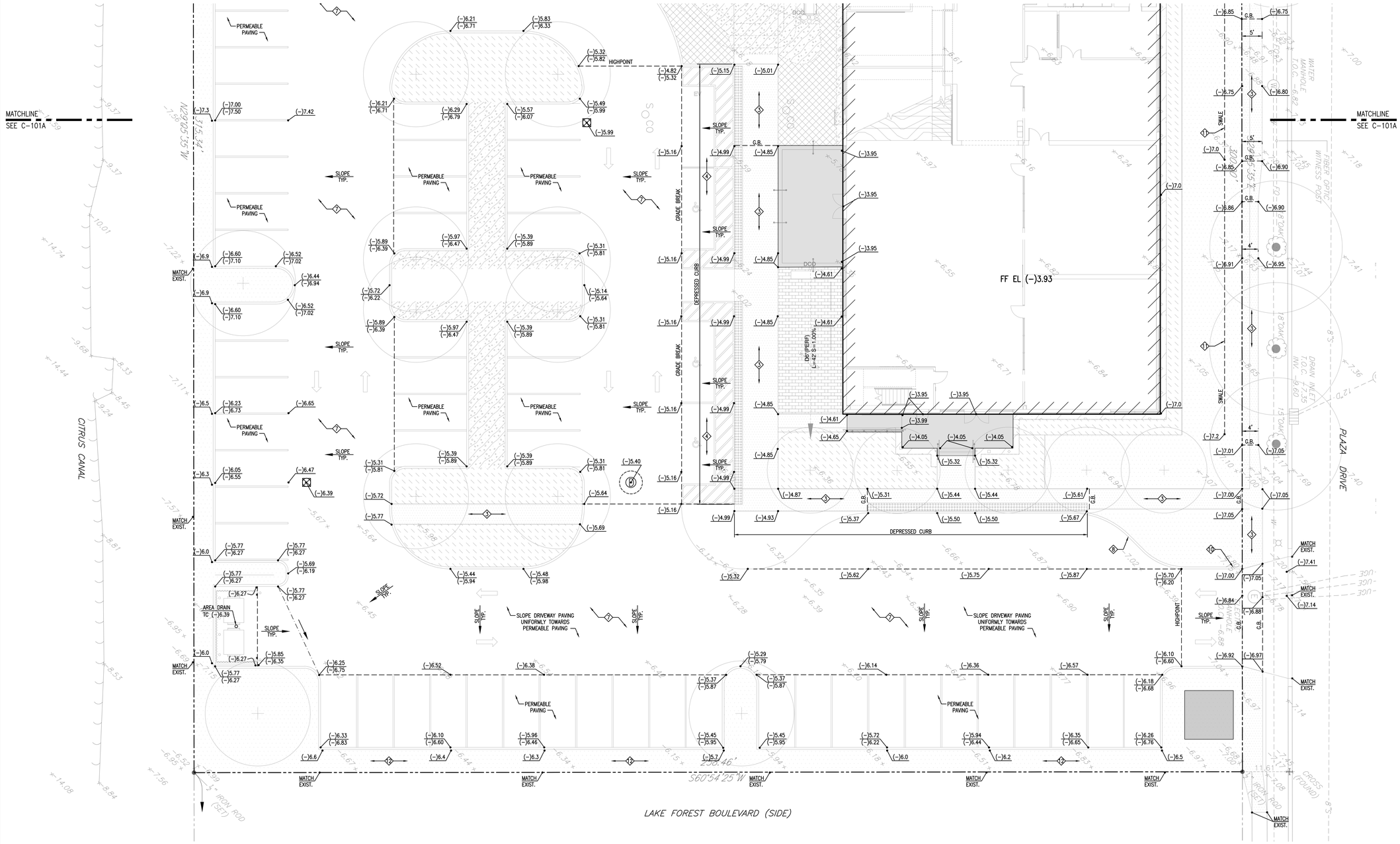
WDG Project No: 2024002

SHEET NAME

PART. GRADING PLAN

SHEET NO. C101A

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001



PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

10 5 0 10 20
SCALE: 1" = 10'

1 C101B PART. GRADING PLAN 1"=10'

GRADING PLAN NOTES:
1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES PRIOR TO CONSTRUCTION. NOTIFY A/E IMMEDIATELY IF ANY GRADE CONFLICT IS ENCOUNTERED WHEN MATCHING OR TIE-INTO EXISTING GRADES.
2. CONTRACTOR SHALL NOTIFY A/E IMMEDIATELY IF ANY CONFLICT OR DISCREPANCY IS IDENTIFIED WITH NEW FINISHED GRADES.
3. PAVEMENT AND SIDEWALK RUNNING SLOPE AND CROSS SLOPE SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND DPW STANDARDS. RUNNING SLOPE NOT TO EXCEED 1 IN 20 (5%) AND CROSS SLOPE NOT TO EXCEED 1 IN 50 (2%).
4. PAVEMENT SLOPE OF HANDICAP PARKING SPACES SHALL NOT EXCEED 2% IN ALL DIRECTIONS AND SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
5. PAVEMENT SLOPE OF ALL ADA ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE MINIMUM OF 5' LANDING AT THE DOORS, ADA CURB RAMPS AND PEDESTRIAN FENCE GATES IN ACCORDANCE WITH ADA REQUIREMENTS. SLOPE FOR LANDING SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN. SLOPE NOT TO EXCEED 1 IN 50 (2%) IN ALL DIRECTIONS.
7. SLOPE PAVING UNIFORMLY TOWARDS PERMEABLE PAVING AS NOTED ON PLANS. ENSURE POSITIVE SLOPE AND DRAINAGE IS MAINTAINED. NOTIFY A/E IF ANY DISCREPANCY WITH FINISHED GRADES.
8. HEIGHT OF CURB VARIES.
9. DEPRESSED CURB FLUSH/LEVEL WITH PARKING PAVING.
10. PROVIDE 5'-0" TRANSITION FROM VERTICAL CURB (HEIGHT VARIES) TO ZERO (0") CURB WHERE CURB MEETS SIDEWALK PAVING IN THE RIGHT-OF-WAY.
11. CUT-IN SWALE. REGRADE GRASSY AREA UNIFORMLY TOWARDS SWALE.
12. RE-GRADE AND SLOPE OPEN AREA TO MATCH EXISTING GRADE. SLOPE UNIFORMLY (CONSISTENT SLOPE) – 4(H):1(V) MAX. SLOPE.
13. CASTING OR GRATE ELEVATION OF ALL EXISTING STRUCTURES INVOLVED IN THE SCOPE OF CIVIL WORK TO BE FIELD ADJUSTED, TOP CASTING SHALL BE FLUSHED WITH NEW PAVING OR FINISHED GRADE OF GRASSY AREAS.
14. STREET REPAIRS AND NEW PAVING IN THE RIGHT-OF-WAY SHALL BE IN COMPLIANCE AND REQUIREMENTS WITH CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS.
15. PROVIDE DRAINAGE STRUCTURES AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD AND/OR THE LOUISIANA DOTD.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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ENGINEER _____
REG. NO. _____

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

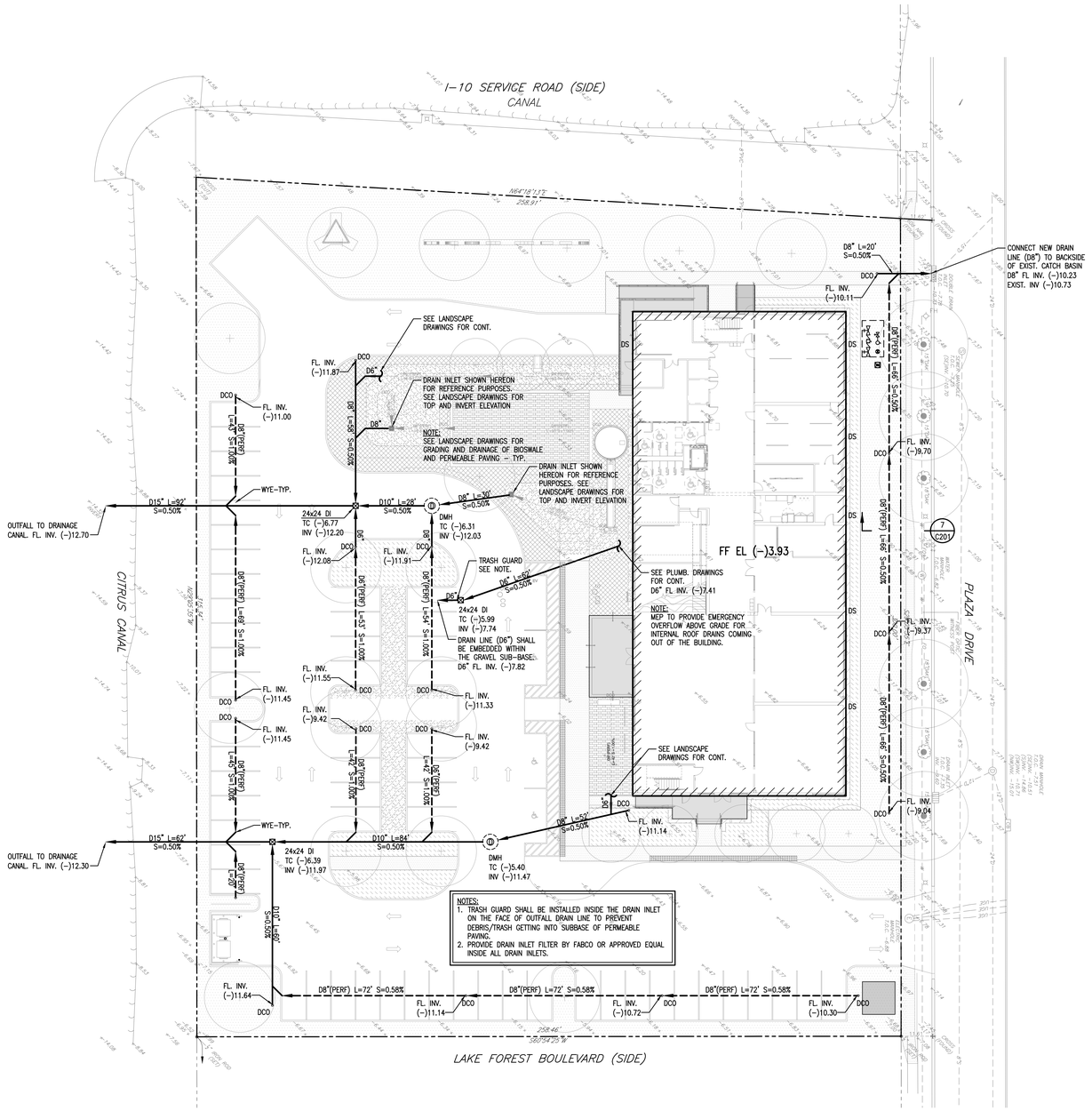
01-13-2026

WDG Project No: 2024002

SHEET NAME
PART. GRADING PLAN

SHEET NO. C101B

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001



NOTES:
1. TRASH GUARD SHALL BE INSTALLED INSIDE THE DRAIN INLET ON THE FACE OF OUTFALL DRAIN LINE TO PREVENT DEBRIS/TRASH GETTING INTO SUBBASE OF PERMEABLE PAVING.
2. PROVIDE DRAIN INLET FILTER BY FABCO OR APPROVED EQUAL INSIDE ALL DRAIN INLETS.

PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 C102 DRAINAGE PLAN 1"=20'

DRAINAGE PLAN NOTES:
1. PROVIDE DRAINAGE STRUCTURES AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD AND/OR THE LOUISIANA DOTD.
2. DIRECT DRAINAGE OF ALL PAVEMENT UNIFORMLY TOWARDS PERMEABLE PAVING AS NOTED ON DRAWINGS. NOTIFY A/E IF ANY DISCREPANCY WITH FINISHED GRADES TO ENSURE POSITIVE FLOW AND DRAINAGE IS MAINTAINED.
3. ALL NEW DRAIN PIPES SHALL BE A–2000PVC CONFORMING TO THE REQUIREMENTS OF ASTM F949 UNLESS NOTED OTHERWISE. DRAIN PIPE FITTINGS SHALL CONFORM TO ASTM F949 PER MANUFACTURERS REQUIREMENTS. ALL JOINTS SHALL BE MADE WITH INTEGRALLY–FORMED BELL AND SPIGOT GASKETED CONNECTIONS. ELASTOMETRIC SEALS (GASKETS) SHALL CONFORM TO ASTM F477.
4. PERFORATED DRAIN PIPE SHALL BE A–2000PVC BY CONTECH CONSTRUCTION PRODUCTS INC., CONFORMING TO ASTM F949. PERFORATION DIMENSTIONS SHALL BE IN ACCORDANCE WITH ASTM F949 TABLE 5 AND SECTION 7.9.
5. ALL INLET CONNECTION AT PIPE INTERFACES SHALL BE GROUTED WITH NON–SHRINK GROUT FOR AN AIR–TIGHT SEAL.
6. SHAPE BOTTOM OF DRAIN INLET, DRAIN MANHOLE STRUCTURES WITH GROUT TO ENSURE POSITIVE FLOW. STANDING WATER INSIDE THE DRAIN INLET OR MANHOLE IS UNACCEPTABLE –TYP.
7. PROVIDE DRAIN INLET FILTER OR INLET SKIMMER BASKETS (BY FABCO OR APPROVED EQUAL) IN ALL DRAIN INLETS.
8. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN ALL (EXISTING AND NEW) CATCH BASINS, DRAIN INLETS, AND DRAIN PIPES TO MAINTAIN POSITIVE DRAINAGE AND RESTORE SERVICES.
9. CONTRACTOR SHALL SUBMIT COPIES OF ALL TESTING REPORTS TO A/E.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DRAINAGE STRUCTURES, FITTINGS, DRAIN PIPES TO A/E FOR APPROVAL BEFORE ORDERING MATERIAL.
11. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF ALL EXISTING DRAIN LINES PRIOR TO MAKING ANY CONNECTIONS/INSTALLATIONS. NOTIFY A/E IMMEDIATELY IF ANY CONFLICT IS ENCOUNTERED BETWEEN FLOW LINE INV. ELEVATION OF NEW DRAIN LINE AND INVERT ELEVATION OF EXISTING DRAIN.
12. CONTRACTOR SHALL VERIFY LOCATION (HORIZONTAL AND VERTICAL, WHEREVER POSSIBLE) OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL TAKE EXTREME PRECAUTIONS WHEN WORKING IN THE VICINITY OF EXISTING/NEW GAS, FIBER OPTICS, ELECTRICITY, UNDERGROUND DUCT BANKS, ETC. SO AS NOT TO CAUSE DAMAGE.
13. NOTIFY A/E IMMEDIATELY IF GRADE CONFLICT IS ENCOUNTERED BETWEEN NEW DRAIN LINE AND STRUCTURAL FOUNDATION & UNDERGROUND UTILITIES (SANITARY SEWER, DOMESTIC AND FIRE WATER, GAS, ETC.)
14. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES COMPANY PRIOR TO OFFSETING EXISTING UTILITIES IF ANY GRADE/INVERT CONFLICT IS ENCOUNTERED WITH NEW DRAIN LINE.

MAINTENANCE OF PERMEABLE PAVING (PERVIOUS CONCRETE):
SOME KEY ACTIONS HELP ENSURE THE LONG–TERM PERFORMANCE OF PERMEABLE PAVEMENT DURING ITS OPERATION LIFE. THE MOST FREQUENTLY CITED MAINTENANCE PROBLEM IS SURFACE CLOGGING CAUSED BY ORGANIC MATTER AND SEDIMENT, WHICH CAN BE REDUCED BY THE FOLLOWING MEASURES:

1. ROUTINE MAINTENANCE: REGULAR DRY–SWEEPING TO REMOVE SEDIMENT PARTICLES BEFORE THEY CAN INFILTRATE DEEPLY INTO THE PERVIOUS CONCRETE.
2. PERIODIC VACUUMING: USE A VACUUM SWEEPER AT LEAST TWICE PER YEAR TO REMOVE SEDIMENT AND DEBRIS.
3. REMOVE LEAVES FROM SURFACE DURING THE FALL. MANUALLY REMOVE WEEDS AND VEGETATION GROWING IN THE POROUS SURFACE.
4. TRY A MORE POWERFUL VACUUM OR PRESSURE WASHING IF POROUS SURFACE STILL NOT DRAINING WATER.

ALL PERMEABLE PAVING INSTALLATIONS SHALL BE SUBJECTED TO INFILTRATION TESTING. TESTING SHALL BE CONDUCTED ACCORDING TO THE ASTM INTERNATIONAL C1701 OR C1781 STANDARDS, AS APPROPRIATE. ALL TYPES OF PERMEABLE PAVEMENT SHALL MAINTAIN A MINIMUM INFILTRATION RATE OF 200 INCHES PER HOUR.

MAINTENANCE FOR LANDSCAPE AREAS:
1. LAWN MOWING SHOULD BE PERFORMED ROUTINELY, AS NEEDED, THROUGHOUT THE GROWING SEASON. GRASS HEIGHT SHOULD BE MAINTAINED ADEQUATELY. GRASS CUTTINGS SHOULD BE COLLECTED AND DISPOSED OFFSITE, OR A MULCHING MOWER CAN BE USED. PRECAUTIONS SHALL BE TAKEN TO ENSURE GRASS CUTTINGS DO NOT MIGRATE TO ADJACENT PERMEABLE PAVING. REGULAR MOWING SHOULD ALSO INCLUDE WEED CONTROL PRACTICES; HOWEVER, HERBICIDE USE SHOULD BE KEPT TO A MINIMUM.
2. AESTHETIC MAINTENANCE OF LANDSCAPE AREAS OFTEN CONSISTS OF WEEDING, TRASH REMOVAL, CLIPPING AND PRUNING VEGETATION, AND MULCH REPLACEMENT.
3. ROUTINE INSPECTION OF LANDSCAPE AREAS TO IDENTIFY ANY AREAS OF OBVIOUS INCREASED SEDIMENT DEPOSITION, SCOURING AND EROSION FROM STORM FLOWS, DAMAGE TO THE PROFILE.
4. REMOVAL OF SEDIMENT WHERE IT IS SMOTHERING THE LANDSCAPE BEDS.
5. REPAIRING ANY DAMAGE TO THE PROFILE RESULTING FROM SCOUR, RILL EROSION BY REPLACEMENT OF APPROPRIATE FILL (TO MATCH ON–SITE SOILS) AND REVEGETATING.
6. TILLING OF THE SURFACE, OR REMOVAL OF THE SURFACE LAYER, IF THERE IS EVIDENCE OF CLOGGING.
7. REGULAR WATERING / IRRIGATION OF VEGETATION UNTIL PLANTS ARE ESTABLISHED AND ACTIVELY GROWING.
8. REMOVAL OF PLANTS THAT HAVE DIED AND REPLACEMENT WITH PLANTS OF EQUIVALENT SIZE AND SPECIES.
9. VEGETATION PEST MONITORING AND CONTROL.

STORMWATER MANAGEMENT PLAN – PERMEABLE PAVING TESTING:
ALL PERMEABLE PAVING INSTALLATIONS SHALL BE SUBJECT TO INFILTRATION TESTING AFTER INSTALLATION. TESTING SHALL BE CONDUCTED ACCORDING TO THE ASTM INTERNATIONAL C1701 OR C1781 STANDARDS, AS APPROPRIATE. ALL TYPES OF PERMEABLE PAVEMENT SHALL MAINTAIN A MINIMUM INFILTRATION RATE OF 200 INCHES PER HOUR.

STORMWATER MANAGEMENT PLAN – SWPPP NOTE:
1. PURSUANT TO BUILDING CODE SECTION 121.13(E); PRIOR TO RELEASE FOR CONSTRUCTION THE CONTRACTOR SHALL EXECUTE THE CONSTRUCTION SWPPP SUBMITTED WITH APPLICATION AND IN COMPLIANCE WITH BUILDING CODE SECTION 121.5 AND 121.6 AND MODELED ON DPW STANDARD SPECIFICATION SECTION C204. INCLUDE CONTACT INFORMATION [NAME, PHONE, EMAIL] FOR THE ON–SITE PERSON OR PERSONS TO BE CONTACTED IN THE EVENT OF A VIOLATION OR COMPLAINT
2. THE CONTRACTOR SHALL PREPARE AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON–SITE, WHICH DESCRIBES IN DETAIL THE CONTRACTORS RESPONSIBILITY TO PREVENT CONTAMINATION OF THE STORMWATER COLLECTION SYSTEM. CONTRACTOR SHALL IMPLEMENT, MAINTAIN, INSPECT ALL EROSION AND SEDIMENT CONTROLS IDENTIFIED IN THE SWPPP. THE PROGRAM SHALL COVER ALL CONSTRUCTION ACTIVITIES AND EXTRAORDINARY EVENTS.

STORMWATER MANAGEMENT PLAN – ACKNOWLEDGEMENT NOTE:
PURSUANT TO BUILDING CODE SECTION 121.17; PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, POST–CONSTRUCTION CERTIFICATION INCLUDING AS–BUILT DRAWINGS, AFFIDAVIT FROM DESIGNER/S, AND PERFORMANCE BOND (BY OWNER), BASED UPON THE ACTUAL COST OF CONSTRUCTION MUST BE SUBMITTED FOR APPROVAL. AFTER FINAL INSPECTON THESE DOCUMENTS MUST BE RECORDED WITH THE CIVIL DISTRICT CLERK COURT. THIS TAKES TIME AND MONEY.

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CITY REQUIREMENTS. I AM GENERALLY ADMINISTERING THE WORK.

ENGINEER _____ JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
STATE OF LOUISIANA

REG. NO.

01–13–2026

WDG Project No: 2024002

SHEET NAME

DRAINAGE PLAN

SHEET NO. C102

MORPHY MAKOFSKY INCORPORATED
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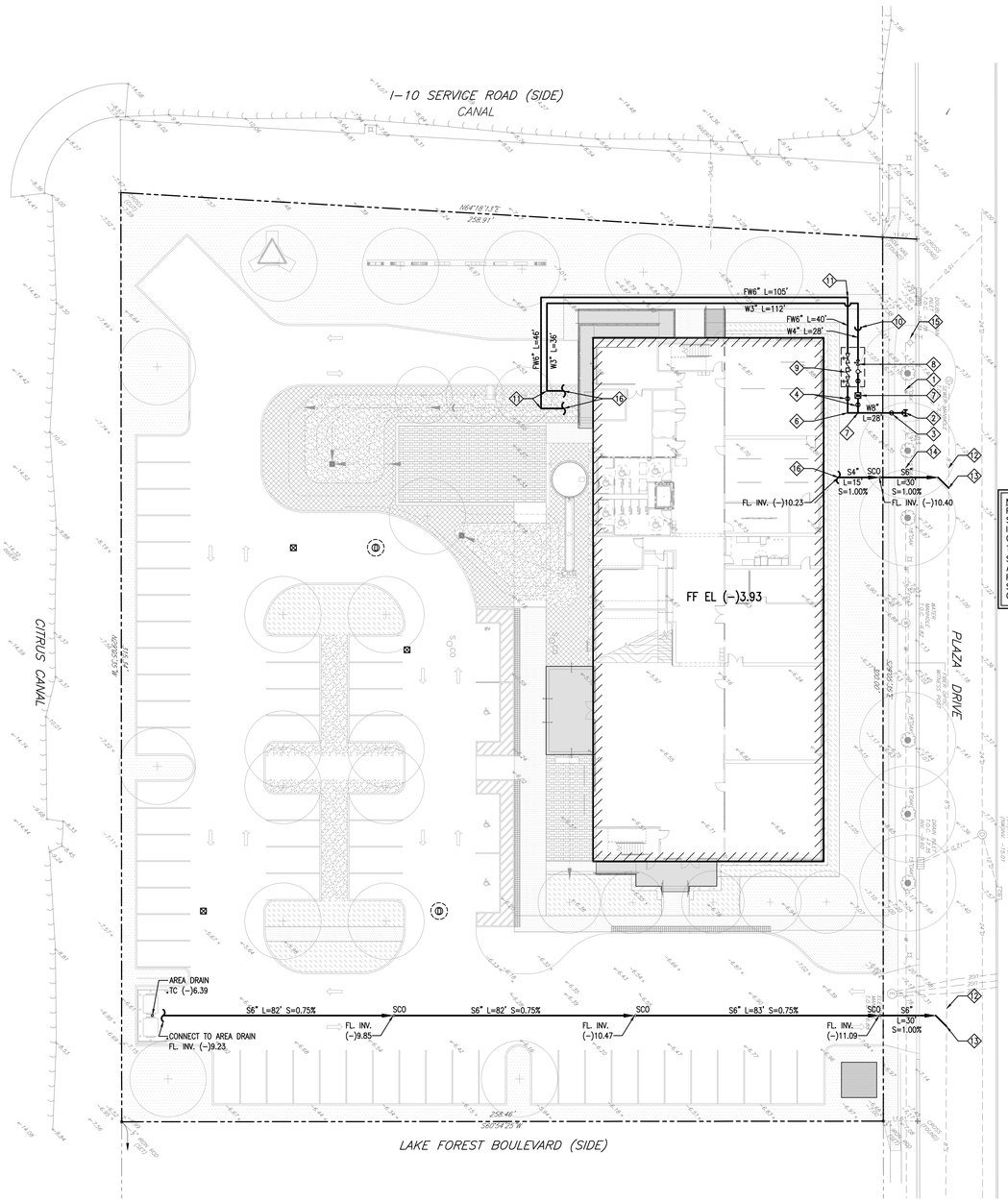
(504)488–1317
JOB NO. 25001



NOTE:
PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PERFORM EXPLORATORY FIELD INVESTIGATION TO VERIFY INVERT ELEVATION OF EXISTING SANITARY SEWER LINE PRIOR TO INSTALLATION/CONNECTION OF NEW SEWER LINE. NOTIFY A/E IMMEDIATELY IF ANY CONFLICT IS ENCOUNTERED BETWEEN FLOW LINE INVERT ELEVATION OF NEW SANITARY SEWER AND INVERT ELEVATION OF EXISTING SEWER MAIN IN THE STREET.

PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 C103 UTILITIES PLAN 1"=20'

SANITARY SEWER NOTES:
1. MATERIAL FOR SANITARY SEWER PIPE SHALL BE SOLD WALL PVC PIPE, MANUFACTURED IN ACCORDANCE WITH ASTM D-3034 SPECIFICATIONS AND TO A SDR (STRENGTH DIMENSION RATIO) OF 26 WITH ELASTOMERIC GASKETS. THE ELASTOMERIC GASKETS AND RETAINER RINGS SHALL BE INSTALLED BY THE MANUFACTURER IN ACCORDANCE WITH ASTM D-3212 AND F-477. THE FITTINGS FOR SOLID WALL PVC PIPE SHALL BE THE SAME INSIDE DIAMETER AS THE SOLID WALL PVC WITH AN SDR OF 35.
2. ALL NEW SANITARY SEWER SERVICES SHALL HAVE A MINIMUM OF 3 FEET COVER (FROM TOP OF PIPE TO FINISH GRADE OF PAVING OR GRASSY AREA).
3. MAINTAIN MINIMUM 12" VERTICAL CLEARANCE BETWEEN NEW SANITARY SEWER AND WATER/DRAIN/ANY OTHER UNDERGROUND UTILITIES WHERE UTILITIES ARE CROSSING (WITH NEW SANITARY SEWER BELOW).
4. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF EXISTING SANITARY SEWER MAIN AT THE POINT OF CONNECTION PRIOR TO MAKING ANY CONNECTIONS/INSTALLATIONS. NOTIFY A/E IMMEDIATELY IF ANY CONFLICT IS ENCOUNTERED BETWEEN FLOW LINE INV. ELEVATION OF NEW SANITARY SEWER AND INVERT ELEVATION OF EXISTING SEWER LINE.
5. CONTRACTOR SHALL NOTIFY A/E IF ANY GRADE CONFLICT IS ENCOUNTERED BETWEEN NEW SANITARY SEWER LINE WITH EXISTING DRAIN, WATER, GAS LINES AND ANY OTHER UNDERGROUND UTILITIES.
6. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES COMPANY PRIOR TO OFFSETTING EXISTING UTILITIES IF ANY GRADE/INVERT CONFLICT IS ENCOUNTERED WITH NEW SANITARY SEWER LINE.
7. SANITARY SEWER PIPE SHALL HAVE 6" WIDE CONTINUOUS METALLIC DETECTABLE WARNING TAPE ATTACHED TO THE PIPE @ 10' MAXIMUM.
8. SEE SPECIFICATIONS FOR SANITARY SEWER

DOMESTIC WATER AND FIRE WATER:
1. FIRE WATER LINE SHALL BE SOLID WALL DR 18 PVC PIPE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900 POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS FOR WATER DISTRIBUTION.
2. FOR PVC WATER LINES, ALL PIPE FITTING SHALL BE DUCTILE IRON. ALL NUTS, BOLTS AND WASHERS, ETC. SHALL BE MANUFACTURED OF STAINLESS STEEL.
3. ALL POTABLE WATER PIPE AND FITTINGS (3" AND LESS) SHALL CONFORM TO POLYVINYL CHLORIDE (PVC) PIPE IN ACCORDANCE WITH ASTM D-1785, UNLESS NOTED OTHERWISE. POLYETHYLENE PLASTIC PIPE AND TUBING (PE), IF USED, SHALL CONFORM TO AWWA C901/C906, ASTM D2239, ASTM D2737, ASTM D3035, ASTM F417, CELL CLASS PER ASTM D3350, PPI LISTED MATERIAL (TR-4) PE 4710, AND ANSI/NSF-14.
4. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) FOR FIREWATER LINE SHALL BE SERIES 757DCDAOSY DOUBLE CHECK DETECTOR ASSEMBLY BY WATTS.
5. REDUCED PRESSURE ZONE (RPZ) BACKFLOW PRVENTER FOR NEW DOMESTIC WATER SERVICE SHALL BE LEAD FREE, SERIES 9570SY REDUCED PRESSURE ZONE ASSEMBLY BY WATTS.
6. NEW DOMESTIC WATER AND FIRE WATER LINES SHALL HAVE A MINIMUM OF 3 FEET OF COVER FROM TOP OF PIPE TO FINISH GRADE OF PAVING.
7. WATER LINES SHOWN IN SCHEMATIC DETAIL ONLY. EVERY OFFSET, ELBOW, TEE, WYE, ETC. THAT MAY BE REQUIRED ARE NOT SHOWN FOR CLARITY. HOWVER, IT IS CONTRACTORS RESPONSIBILITY TO SUPPLY EACH AND EVERY SUCH ITEM TO PROVIDE COMPLETE WORKING UTILITY SYSTEMS.
8. PROVIDE METER VAULT, VALVES, REDUCED PRESSURE BACKFLOW PREVENTER AND OTHER FIXTURES AND STRUCTURES CONFORMING TO THE STANDARDS OF THE S&WB. COORDINATE INSTALLATION OF METER AND METER VAULT WITH S&WB.
9. PROVIDE POTABLE WATER CONNECTIONS FROM MAIN TO METER AND FROM METER TO BUILDING IN ACCORDANCE WITH THE STANDARDS OF THE S&WB.
10. FLUSH AND DISINFECT NEW WATER LINES AND AFFECTED PORTIONS OF EXISTING WATER LINES IN ACCORDANCE WITH AWWA C601 AND THE S&WB STANDARDS.
11. PROVIDE CONCRETE THRUST BLOCKS AND/OR MECHANICAL RESTRAINTS AT TEES, ELBOWS, AND OTHER CHANGES IN DIRECTION.
12. DOMESTIC WATER AND FIRE WATER PIPES SHALL HAVE 6" WIDE CONTINUOUS METALLIC DETECTABLE WARNING TAPE INSTALLED 12" ABOVE THE PIPE.
13. SEE WATER DISTRIBUTION SPECIFICATIONS.

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) AND REDUCED PRESSURE ZONE (RPZ) ASSEMBLY :
1. DCDA BACKFLOW PREVENTER SHALL BE EQUIPPED WITH TAMPER SWITCH AS REQUIRED BY FIRE MARSHALL GOVERNING AGENCY.
2. PROVIDE VANDALISM AND TAMPER PROTECTION FOR DCDA (FIRE WATER) AND RPZ BACKFLOW PREVENTER ASSEMBLY (DOMESTIC WATER).
3. ALL ABOVE GROUND PIPES AND FITTINGS OF DCDA AND RPZ BACKFLOW PREVENTER SHALL BE INSULATED FOR FREEZE PROTECTION IN ACCORDANCE WITH CITY OF NEW ORLEANS S&WB REQUIREMENTS.
4. FOUNDATION SLAB FOR DCDA AND RPZ BACKFLOW PREVENTER SHALL BE 4,000 PSI CONCRETE, 6" THICK, REINFORCED WITH #4 @ 12" O.C EACH WAY. FOUNDATION SLAB TO BE SUPPORTED ON SIX (6) INCHES OF SELECT FILL (RIVER SAND), COMPACTED TO 95% OF ITS MAX DRY DENSITY WITH GEOTEXTILE FABRIC (MIRAFI 600X) UNDERNEATH IT.
5. FOUNDATION SLAB DIMENSION SHALL BE MINIMUM 4'(W) x (LENGTH OF BFP +1' EACH SIDE)

SEWERAGE & WATER BOARD NOTES:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH S&WB GENERAL SPECIFICATIONS, S&WB STANDARD DRAWINGS AND S&WB DRAWING NO. 7260-SWO.
2. CONTRACTOR SHALL PROVIDE THE FOLLOWING TO THE S&WB AT THE TIME OF APPLICATION:
   A. LOUISIANA MUNICIPAL AND PUBLIC WORKS CONTRACTOR'S LICENSE.
   B. DEPARTMENT OF PUBLIC WORKS UTILITY/SERVICE CUT PERMIT. (HTTPS:WWW.NOLA.GOV/ONESTOP/BUILDING/STREET/STREET-CUT-PERMIT/)
   C. CERTIFICATE OF INSURANCE INDEMNIFYING THE S&WB IN THE AMOUNT NO LESS THAN $5,000,000.00.
3. ANY WORK OUTSIDE OF THE PUBLIC RIGHT OF WAY MUST BE REVIEWED AND APPROVED BY THE S&WB PLUMBING DEPARTMENT (504-585-2164) TO VERIFY COMPLIANCE WITH ALL APPLICABLE GOVERNING REGULATIONS. OBTAINING THE SIGNATURE OF A REPRESENTATIVE OF S&WB NETWORKS ENGINEERING DOES NOT RELIEVE THE CONTRACTOR OF THIS OBLIGATION.
4. THE CONTRACTOR/OWNER WILL BE RESPONSIBLE FOR CALLING LOUISIANA ONE CALL BEFORE EXCAVATING AND ALL UTILITIES THAT ARE MARKED VIA LOUISIANA ONE CALL SHALL ALSO BE SHOWN ON THE PROPOSED UTILITY DRAWING IN THE PROPOSED WORK AREA.
5. THE SEWERAGE AND WATER BOARD OF NEW ORLEANS RETAINS THE RIGHT TO REVISE THE APPROVED DESIGN AS NECESSARY DURING CONSTRUCTION.

UTILITIES PLAN KEY NOTES:

1. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND DEPTH OF EXIST. WATER MAIN IN THE FIELD. NOTIFY A/E IMMEDIATELY IF DISCREPANCY IS ENCOUNTERED IN FIELD CONDITIONS.
2. CONNECT NEW 8" WATER LINE TO EXIST. 8" WATER MAIN WITH DUCTILE IRON TEE CONFORMING TO S&WB OF NEW ORLEANS REQUIREMENTS.
3. 8" ROTATING/ROLLING DISC WOODS GATE VALVE WITH MECHANICAL JOINT END CONNECTIONS, COMPLYING WITH AWWA C-500, NSF-61 APPROVED, IN WATER MANHOLE OR VALVE BOX PER S&WB DWG. NO. 6179-F-2 AND CONFORMING TO S&WB OF NEW ORLEANS REQUIREMENTS. PROVIDE 2'x2'x4" CONCRETE SLAB IN NON-TRAFFIC AREA.
4. ISOLATION GATE VALVE IN VALVE BOX PER S&WB DWG. NO. 6179-F-2 AND CONFORMING TO S&WB OF NEW ORLEANS REQUIREMENTS. PROVIDE 2'x2'x4" CONCRETE SLAB IN NON-TRAFFIC AREA.
5. 8x8x4 DUCTILE IRON TEE FOR DOMESTIC WATER LINE
6. 8x8x6 DUCTILE IRON TEE FOR FIREWATER LINE
7. 4" S&WB SUPPLIED WATER METER FOR DOMESTIC WATER.
8. 4" REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER (LEAD FREE) FOR DOMESTIC WATER PER S&WB DWG. NO. 8353-W3
9. 6" DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTER FOR FIRE WATER WITH S&WB BY-PASS METER PER S&WB DWG. NO. 8353-W2.
10. 4x3 REDUCER
11. PROVIDE CONCRETE THRUST BLOCKS AND/OR MECHANICAL RESTRAINTS AT TEES, ELBOWS, AND OTHER CHANGES IN DIRECTION.
12. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND DEPTH OF EXIST. SANITARY SEWER MAIN IN THE FIELD. NOTIFY A/E IMMEDIATELY IF DISCREPANCY IS ENCOUNTERED IN FIELD CONDITIONS.
13. CONNECT NEW SANITARY SEWER LINE (S6") TO EXIST. SANITARY SEWER LINE WITH WYE CONNECTION. WYE SHALL BE INSTALLED IN THE DIRECTION/ SLOPE OF EXIST. SEWER LINE.
14. NEW SANITARY SEWER LINE SHALL BE INSTALLED UNDERNEATH EXIST. WATER MAIN. MAINTAIN MIN. 18" VERTICAL CLEARANCE BETWEEN TOP OF SEWER PIPE AND BOTTOM OF WATER LINE.
15. EXIST. FIRE HYDRANT. FIRE DEPARTMENT CONNECTION (FDC) FOR THE NEW BUILDING SHALL BE WITHIN 100 FEET, HOSE LENGTH, TO THE EXISTING FIRE HYDRANT.
16. SEE PLUMB. FOR CONT. – TYP.
CONTRACTOR SHALL PROVIDE FLEXIBLE CONNECTIONS WHERE SITE UTILITIES CONNECT TO SEWER AND WATER PIPE COMING OUT OF THE BUILDING.

UTILITIES PLAN LEGEND

S6" L=25' S=1.00%	NEW SEWER, SIZE, LENGTH, SLOPE
W4" L=25'	NEW DOMESTIC WATER, SIZE, MATERIAL, LENGTH
FW6" DI L=25'	NEW FIRE WATER, SIZE, MATERIAL, LENGTH
⊗	NEW GATE VALVE
	NEW REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER
	NEW DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTER
○SCO	NEW SEWER CLEANOUT, SEE 5/C2.2

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ENGINEER _____
REG. NO.

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

WDG Project No: 2024002

SHEET NAME
UTILITIES PLAN

SHEET NO. C103

1 C200 GENERAL NOTES

CIVIL GENERAL NOTES:
1. DIMENSIONS AND CONDITIONS TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION ARE APPROXIMATE AND ARE NOT PURPORTED TO BE PRECISE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL SURFACE AND SUBSURFACE STRUCTURES, UTILITIES, DEPTHS AND INVERTS PRIOR TO COMMENCING WORK. NOTIFY THE A/E IF CONDITIONS VARY FROM THOSE SHOWN.
2. CONTRACTOR SHALL VERIFY BUILDING AND SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING BUILDING, SIDEWALKS
3. ELEVATIONS ARE IN FEET. SEE SURVEY FOR ELEVATION DATUM AND REFERENCE BENCH MARK.
4. OBTAIN AND PAY FOR INSPECTIONS, LICENSES, PERMITS AND APPROVALS REQUIRED BY GOVERNING AUTHORITIES AND INSTALL ALL WORK IN COMPLIANCE THERE WITH.
5. DRAIN, SEWER AND WATER LINES ARE SHOWN IN SCHEMATIC DETAIL ONLY. EVERY OFFSET, ELBOW, TEE, WYE, ETC., THAT MAY BE REQUIRED ARE NOT SHOWN FOR CLARITY, HOWEVER, CONTRACTOR SHALL SUPPLY EACH AND EVERY SUCH ITEM AS IF SHOWN. PROVIDE COMPLETE WORKING UTILITY SYSTEMS.
6. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR CONTINUATION OF UTILITIES WITHIN BUILDINGS.
6. WHERE NOTED, REFERENCED STANDARD SPECIFICATION SHALL BE THE CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD (S&WB) STANDARD SPECIFICATIONS, LATEST EDITION, OR THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION, WHICHEVER IS THE MORE STRINGENT.
7. ANY UTILITY LINE OR SERVICE LINE ENCOUNTERED DURING CONSTRUCTION, WHETHER OR NOT SHOWN ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED BY THE CONTRACTOR AND ANY REPAIRS NECESSARY DUE TO DAMAGE TO SAME BY THE CONTRACTOR SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ACTUAL LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES ON THE PROJECT SITE. LOCATIONS OF EXISTING UTILITIES AND STRUCTURES INDICATED ON DRAWINGS APPROXIMATE ONLY, AND THOSE INDICATED ARE NOT NECESSARILY ALL THAT MAY EXIST ON THE PROJECT SITE. THE CONTRACTOR SHALL VERIFY THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES (POWER, TELEPHONE, GAS, WATER, SEWER, ETC.) WITH THE APPROPRIATE UTILITY COMPANY BEFORE CONSTRUCTION BEGINS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITIES (INCLUDING BUT NOT LIMITED TO ELECTRICITY, SEWER, AND WATER TIE-INS, CONNECTIONS AND DISCONNECTIONS) WITH THE APPROPRIATE UTILITY PROVIDER AT NO COST OF THE OWNER.
10. ALL EXISTING AND NEW UTILITY STRUCTURES – SANITARY SEWER MANHOLE TOPS, WATER VALVES BOXES, METERS, STORM SEWERS, OR OTHER RELATED APPURTENANCES SHALL BE ADJUSTED TO FINISH GRADE BY CONTRACTOR AS AN ABSORBED COST OF WORK.
11. PROVIDE CONSTRUCTION ZONE TRAFFIC CONTROL PER LOUISIANA DOTD STANDARD PLANS.
12. PROVIDE DETECTABLE WARNING SURFACE WHERE PEDESTRIAN AND VEHICULAR AREAS ARE NOT OTHERWISE SEPARATED BY A CURB, RAILING OR OTHER STRUCTURAL ELEMENT. DETECTABLE WARNING SURFACE SHALL BE A MINIMUM 36 INCHES WIDE AND SHALL BE CONTINUOUS BETWEEN PEDESTRIAN AND VEHICULAR AREAS.
13. DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES, 0.9 INCHES IN NOMINAL DIAMETER, 0.2 INCHES IN NOMINAL HEIGHT, CENTERED 2.35 INCHES APART.
14. CONTRACTOR SHALL ENSURE THAT ALL NATURAL DRAINAGE ROUTES ARE MAINTAINED AND PRESERVED THROUGHOUT THE COURSE OF PROJECT.
15. THE CONTRACTOR SHALL PROVIDE, ACCURATE AS-BUILTS DRAWINGS UPON SUBSTANTIAL COMPLETION OF THE PROJECT.

DRAINAGE:
SEE SPECIFICATIONS FOR STORM DRAINAGE (SECTION 334100) AND SHEET C1.2 FOR STORM DRAINAGE NOTES

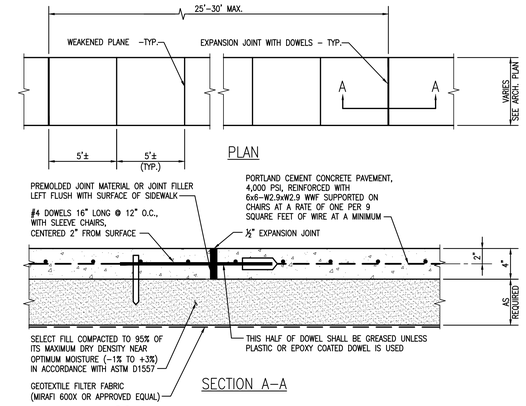
EARTHWORK:
SEE SPECIFICATIONS FOR EARTHWORK (SECTION 312000)

PORTLAND CEMENT CONCRETE PAVING:
1. WHERE NEW PAVING IS TO MEET EXISTING, PROVIDE A SAW CUT TO ENSURE A STRAIGHT JOINT. SAW CUT A MINIMUM 1" DEEP. BREAK THE REMAINDER OF CONCRETE BY CONVENTIONAL MEANS WITHOUT DAMAGING CONCRETE TO REMAIN.
2. PORTLAND CEMENT CONCRETE PAVEMENT SHALL CONFORM TO SECTION 601 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION, AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
3. FORM WEAKENED PLANES IN SIDEWALK BY A JOINTING TOOL OR OTHER ACCEPTABLE MEANS. SPACE WEAKENED PLANES EQUAL TO THE WIDTH OF THE SIDEWALK. ALIGN EXPANSION JOINTS IN SIDEWALK WITH JOINTS IN CURB.
4. DEFORMED STEEL BARS SHALL BE GRADE 60 AND SHALL CONFORM TO ASTM A615. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. DOWEL BARS SHALL BE PLAIN BARS CONFORMING TO ASTM A615. PAINT FOR DOWEL BARS SHALL CONFORM TO AASHTO DESIGNATION M72.
5. PROVIDE HANDICAPPED RAMPS ACCORDING TO CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS STANDARD PLANS. COORDINATE LOCATION OF RAMPS WITH THE CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS.
6. SEE SPECIFICATIONS FOR RIGID PAVEMENT (SECTION 321313)

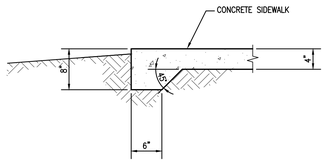
ASPHALT PAVING:
1. ASPHALT MIXTURES, HANDLING, AND INSTALLATION SHALL BE IN ACCORDANCE WITH PART V "ASPHALT PAVEMENTS" OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION.

DOMESTIC WATER AND FIRE WATER:
SEE SPECIFICATIONS FOR WATER DISTRIBUTION AND SHEET C1.3 FOR NOTES

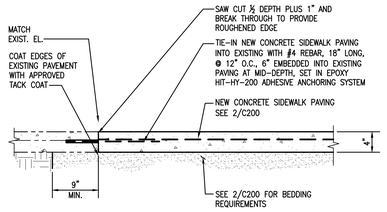
SANITARY SEWER:
SEE SPECIFICATIONS FOR SANITARY SEWERAGE AND SHEET C1.3 FOR NOTES



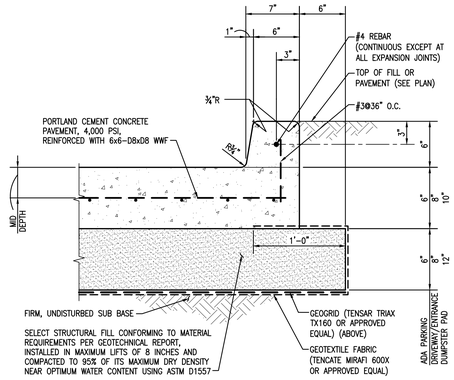
2 C200 DETAIL – PORTLAND CEMENT CONCRETE SIDEWALK PAVEMENT 1–1/2"=1'–0"



2A C200 SECTION – TYPICAL SIDEWALK W/ THICKENED EDGE 1"=1'–0"

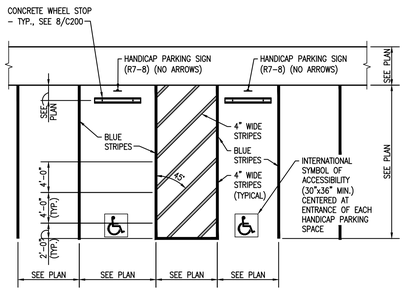


3 C200 DETAIL – NEW CONCRETE SIDEWALK PAVEMENT DOWELED INTO EXISTING N.T.S.



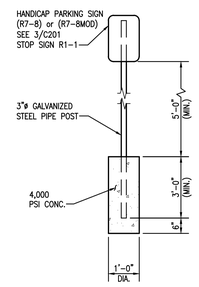
NOTES:
1. PROVIDE JOINTS IN CURB TO MATCH JOINTS IN PAVEMENT.
2. PROVIDE CHAIRS TO SUPPORT WWF AT A RATE OF ONE PER 16 SQUARE FEET OF WIRE AT A MINIMUM.

4 C200 DETAIL – TYPICAL CONCRETE PAVEMENT SECTION W/ CURB N.T.S.

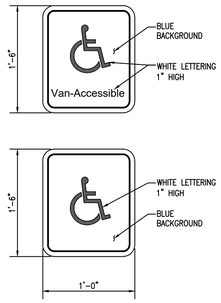


STRIPING NOTES:
1. PARKING STRIPES SHALL BE PAINTED 4" WIDE. DIMENSIONS SHOWN ARE CENTER TO CENTER.
2. PAVEMENT MARKINGS SHALL BE PAINTED WHITE ON ASPHALTIC CONCRETE PAVEMENT AND YELLOW ON PORTLAND CEMENT CONCRETE PAVEMENT.
3. PAVEMENT MARKINGS FOR HANDICAPPED PARKING STALLS SHALL BE PAINTED BLUE. SUBMIT FOR APPROVAL.
4. WHEEL STOPS SHALL BE PAINTED TO MATCH STRIPING.
5. THE CONTRACTOR SHALL USE WATER–BORNE TRAFFIC PAINT, AND SHALL BE IN COMPLIANCE WITH LADOTD SPECIFICATIONS, SECTION 1015.12 TRAFFIC PAINT.
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL ACCESSIBILITY PAVEMENT MARKINGS AND SIGNS IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES.
7. STRIPING DIMENSIONS SHOWN ABOVE ARE "TYPICAL" DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

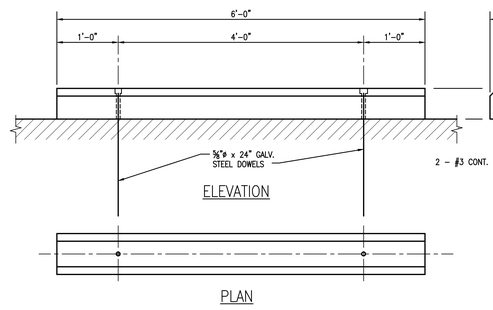
5 C200 DETAIL – STANDARD AND HANDICAP PARKING STRIPING (SCHEMATIC) N.T.S.



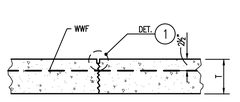
6 C200 DETAIL – SIGN POST FOUNDATION 1/2"=1'–0"



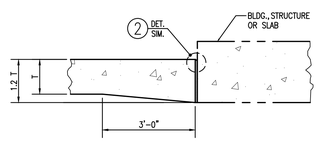
7 C200 DETAIL – HANDICAP SIGNS 1 1/2"=1'–0"



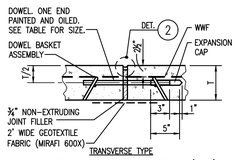
8 C200 DETAIL – PRECAST CONCRETE WHEEL STOP 1"=1'–0"



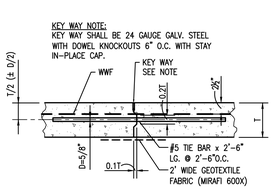
TRANSVERSE CONTROL JOINT (TCJ) N.T.S.



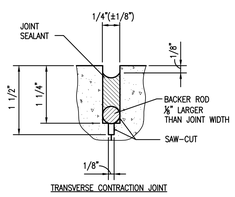
EXPANSION JOINT – (EJ1) N.T.S.



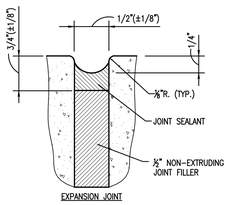
DOWELED EXPANSION JOINT – (EJ2) N.T.S.



KEYED TIED LONGITUDINAL JOINT (LJ) N.T.S.



N.T.S.

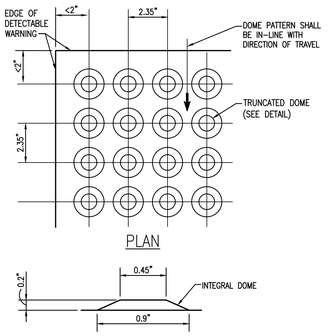


N.T.S.

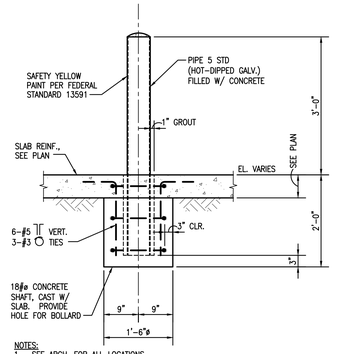
TABLE NO.1 DOWELS (SMOOTH BARS)		
SLAB THICKNESS T (IN.)	BAR DIA. AND LENGTH	AVERAGE SPACING (IN.)
5	3/4"x18"	12
6 TO 7.5	1"x18"	12
8 TO 10	1–1/4"x18"	12

NOTES:
1. TIE BARS SHALL BE DEFORMED BARS CONFORMING TO SECTION 1009 OF THE LADOTD STANDARD SPECIFICATIONS.
2. DOWEL BARS SHALL BE PLAIN (SMOOTH) BARS CONFORMING TO SECTION 1009 OF THE LADOTD STANDARD SPECIFICATIONS.
3. PREFORMED EXPANSION JOINT FILLER SHALL CONFORM TO SECTION 1005 OF THE LADOTD STANDARD SPECIFICATIONS.
4. JOINT SEALER SHALL BE EITHER POURED OR EXTRUDED TYPE CONFORMING TO SECTION 1005 OF THE LADOTD STANDARD SPECIFICATIONS.
5. CONTRACTOR TO SUBMIT HIS RECOMMENDED JOINTING PLAN FOR REVIEW PRIOR TO PLACING CONCRETE. CONTRACTOR'S RECOMMENDATIONS SHALL BE BASED ON ACI GUIDELINES.
   - PROVIDE DOWELED EXPANSION JOINT EVERY 50' TO 70' MAX. SPACING.
   - PROVIDE ½" PREFORMED, NON–EXTRUDING, RESILIENT BITUMINOUS TYPE EXPANSION JOINT FILLER MATERIAL AT THE INTERFACE OF NEW CONCRETE PAVING AND STRUCTURAL PAVING, BUILDING, ETC.
   - PROVIDE TIED LONGITUDINAL KEYED JOINT EVERY 12' TO 15' MAX. SPACING.
   - PROVIDE TRANSVERSE JOINT EVERY 12' TO 15' MAX. SPACING.

9 C200 DETAILS – CONCRETE PAVEMENT JOINTING N.T.S.



10 C200 DETAIL – DETECTABLE WARNING SURFACE N.T.S.



NOTES:
1. SEE ARCH. FOR ALL LOCATIONS.
2. COORD. ALL LOCATIONS WITH RESPECT TO EXISTING UTILITIES.

11 C200 DETAIL – TYPICAL BOLLARD NTS

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CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
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01/19/2026	PERMIT SET

REVISIONS

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ENGINEER _____ REG. NO.

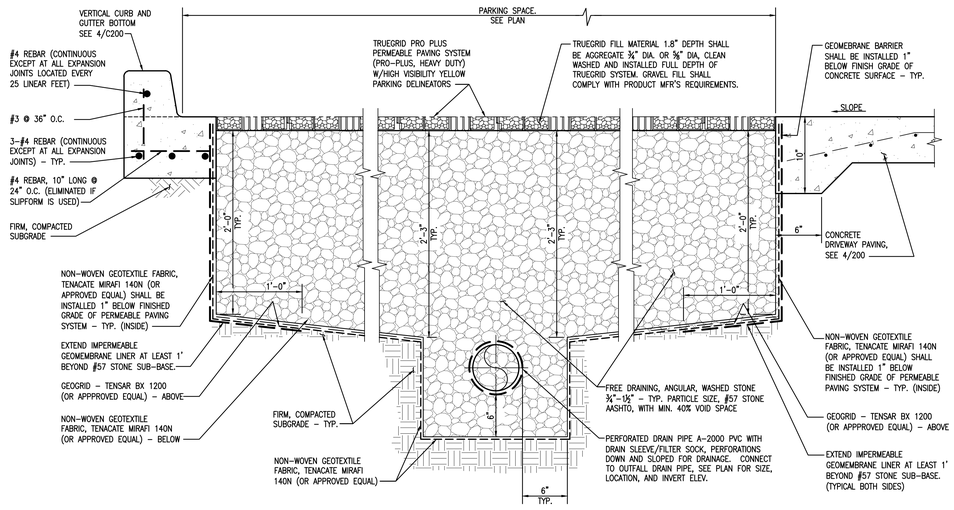
STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. NO. 28282
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01–13–2026

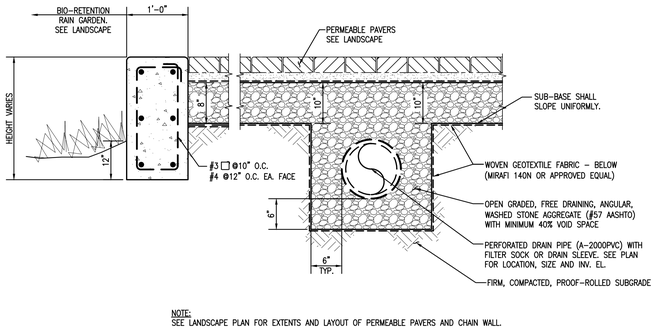
WDG Project No: 2024002

SHEET NAME
CIVIL GENERAL NOTES AND DETAILS

SHEET NO. C200

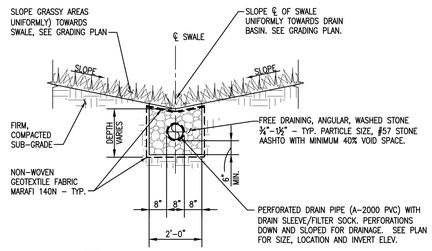


1 C201 SECTION – PERMEABLE PAVING TRUEGRID PAVERS WITH PERFORATED DRAINAGE SYSTEM N.T.S.



NOTE:
SEE LANDSCAPE PLAN FOR EXTENTS AND LAYOUT OF PERMEABLE PAVERS AND CHAIN WALL.

2 C201 SECTION – PERMEABLE PAVERS WITH PERFORATED DRAIN PIPE AND CHAIN WALL N.T.S.

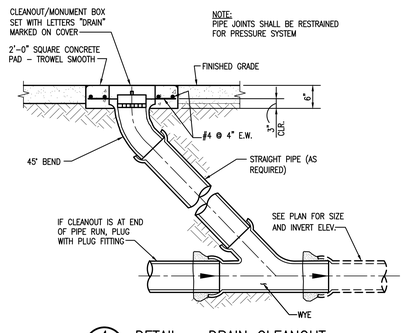


3 C201 SECTION – GRASSY SWALE (WITH PERFORATED PIPE) N.T.S

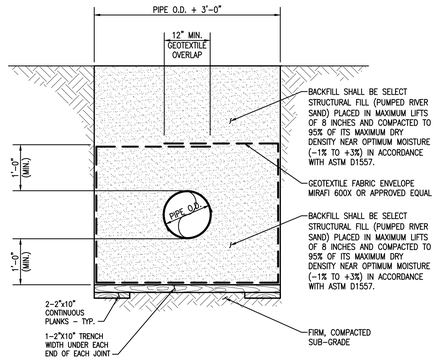
PLAN

NOTES:
1. PRECAST STRUCTURE TO MEET ASTM C–857–92.
1. CONCRETE SHALL BE 4,000 P.S.I. MINIMUM @ 28 DAYS.
2. REINFORCING STEEL SHALL BE PER ASTM A–615, GRADE 60.
3. RAM–NEK GASKET MATERIAL (OR APPROVED EQUAL) TO BE USED AS JOINT SEALANT.

3 C201 DETAIL – PRECAST DRAIN INLET (SCHEMATIC) 1/2"=1'–0"

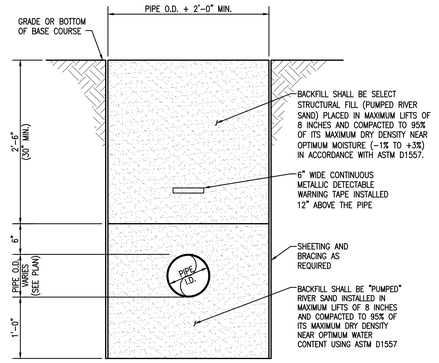


4 C201 DETAIL – DRAIN CLEANOUT 3/4"=1'–0"



NOTE: BEDDING AND FOUNDATIONS CONFORM WITH SECTION C741 OF THE GENERAL SPECIFICATIONS

5 C201 DETAIL – DRAINAGE PIPE BEDDING (A–2000 PVC PIPE) 3/4"=1'–0"



NOTE:
SHEETING AND BRACING SHOWN IS INTENDED FOR PROTECTION OF THE PIPE, AFTER INSTALLATION IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN AND IMPLEMENTATION FOR ANY SHEETING AND/OR BRACING REQUIRED FOR THE SAFETY OF HIS EMPLOYEES AND TO PROTECT HIS OPERATIONS DURING CONSTRUCTION

6 C201 DETAIL – TYPICAL PIPE TRENCH AND BEDDING FOR DOMESTIC WATER AND FIRE MAIN 1"=1'–0"

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4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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PERMIT SET

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ENGINEER
REG. NO.

STATE OF LOUISIANA
JONATHAN A. SOFRONKO
REG. No. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01–13–2026

WDG Project No: 2024002

SHEET NAME

CIVIL DETAILS

SHEET NO. C201

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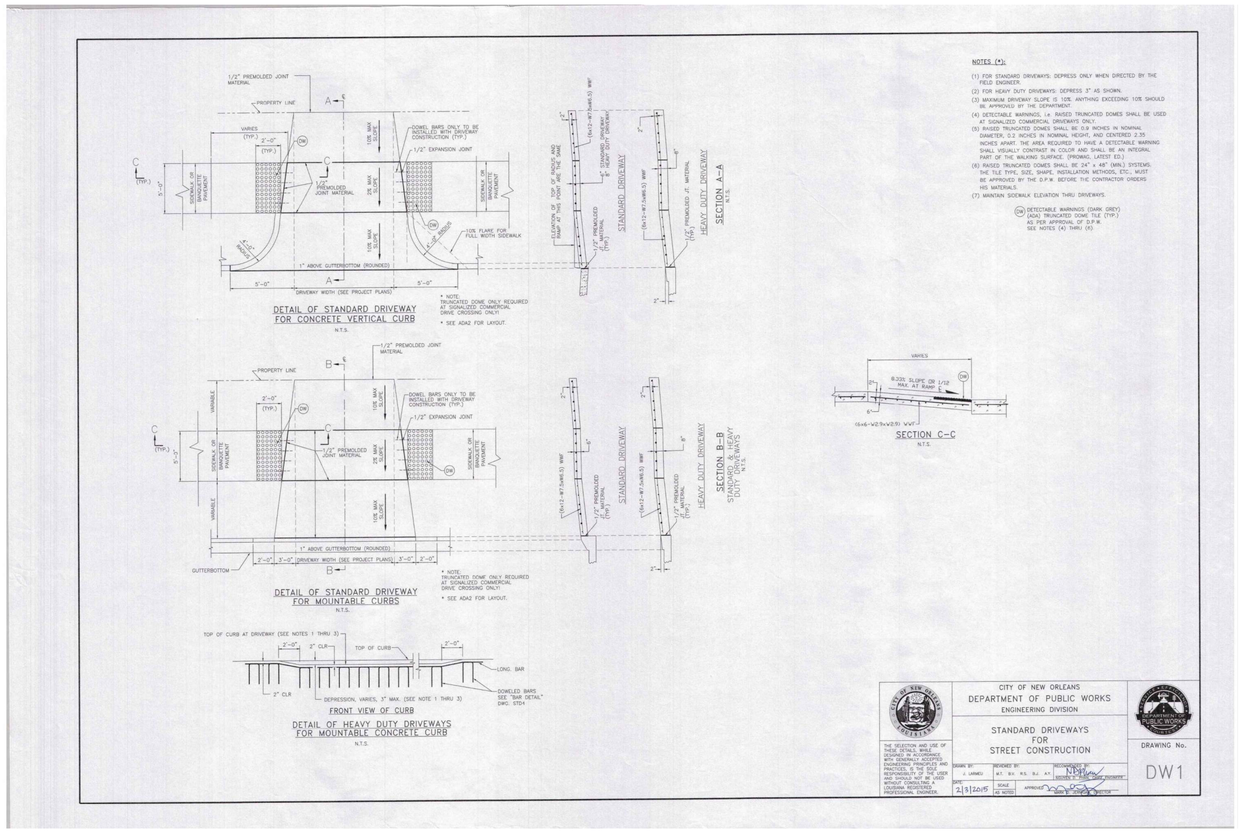
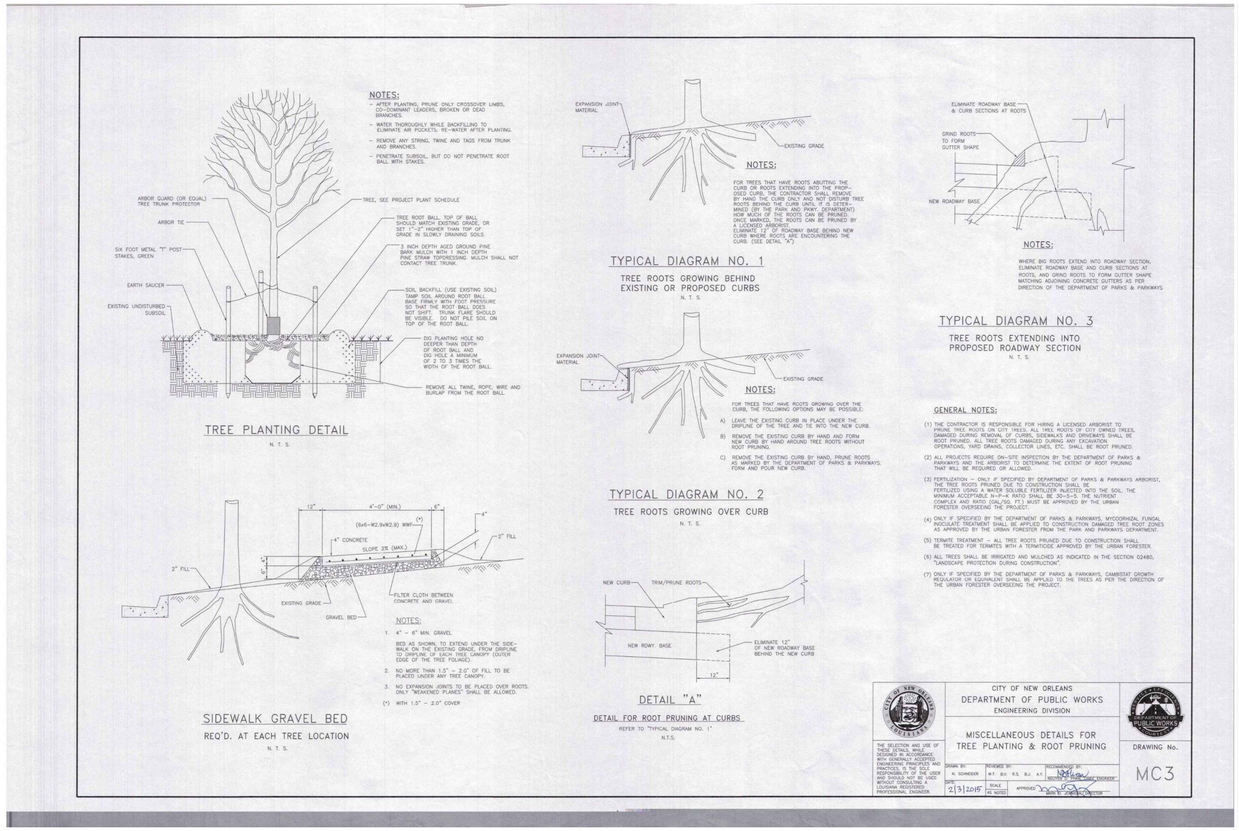
(504)488-1317
JOB NO. 25001





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01-13-2026

WDG Project No: 2024002

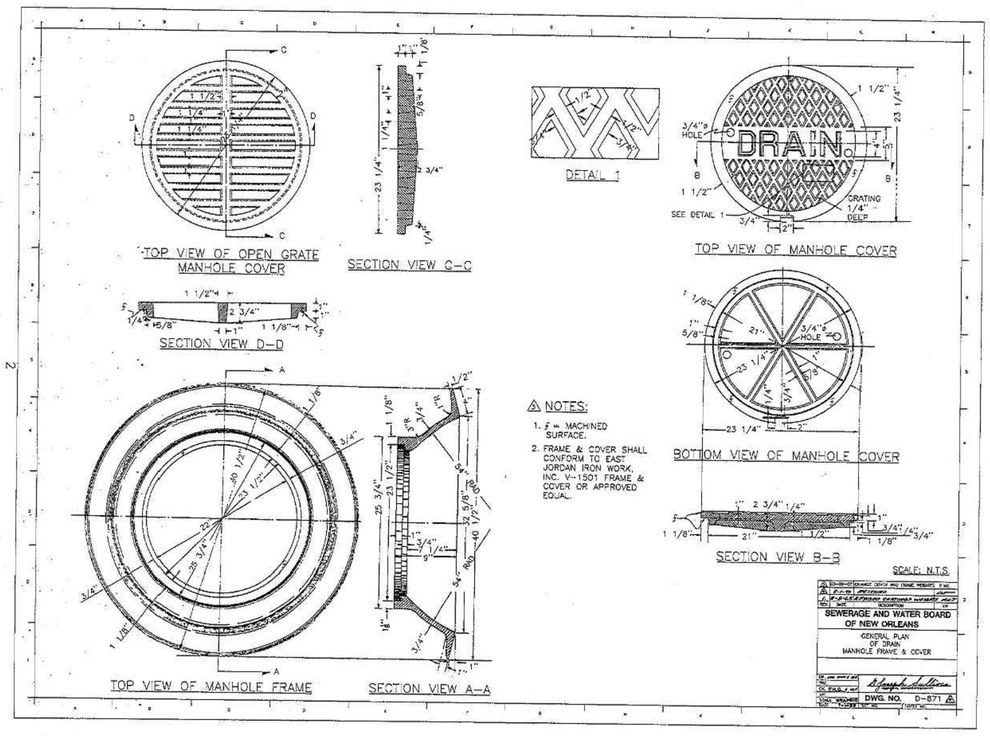
SHEET NAME

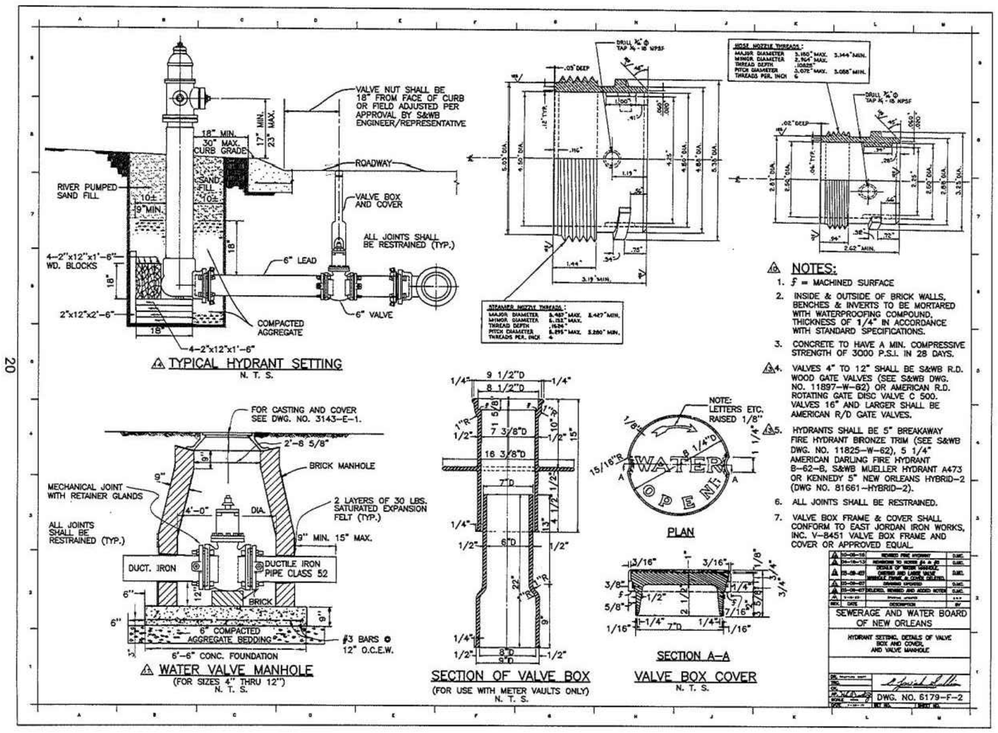
CITY OF NEW ORLEANS DPW STANDARD DRAWINGS

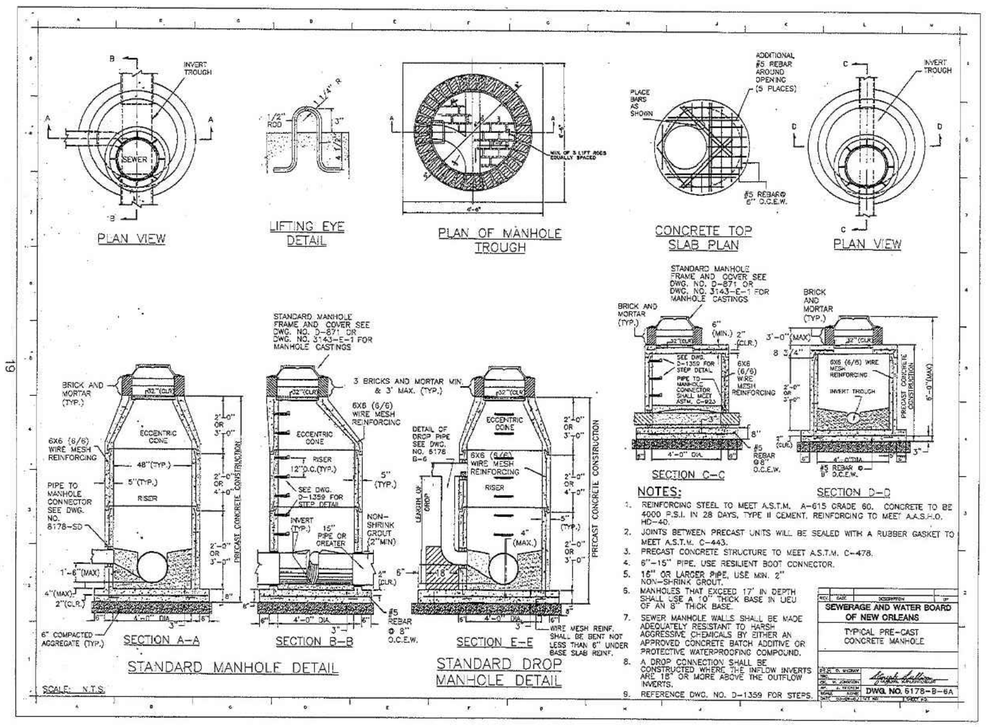
SHEET NO.

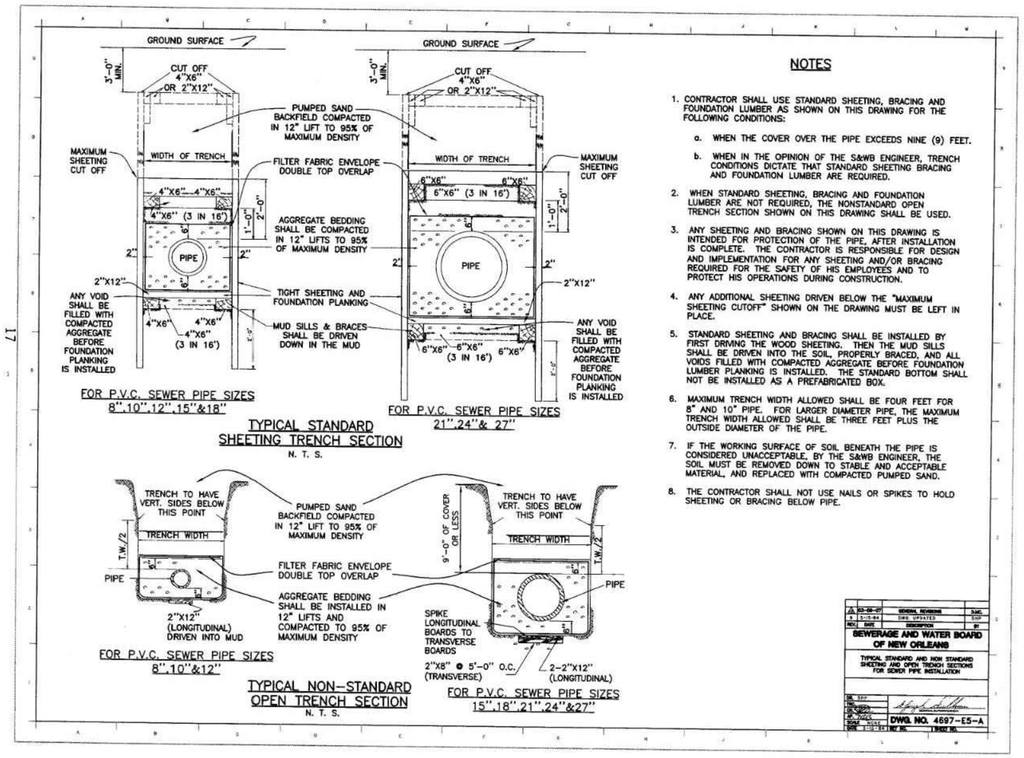
C300

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001









WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

WDG Project No: 2024002

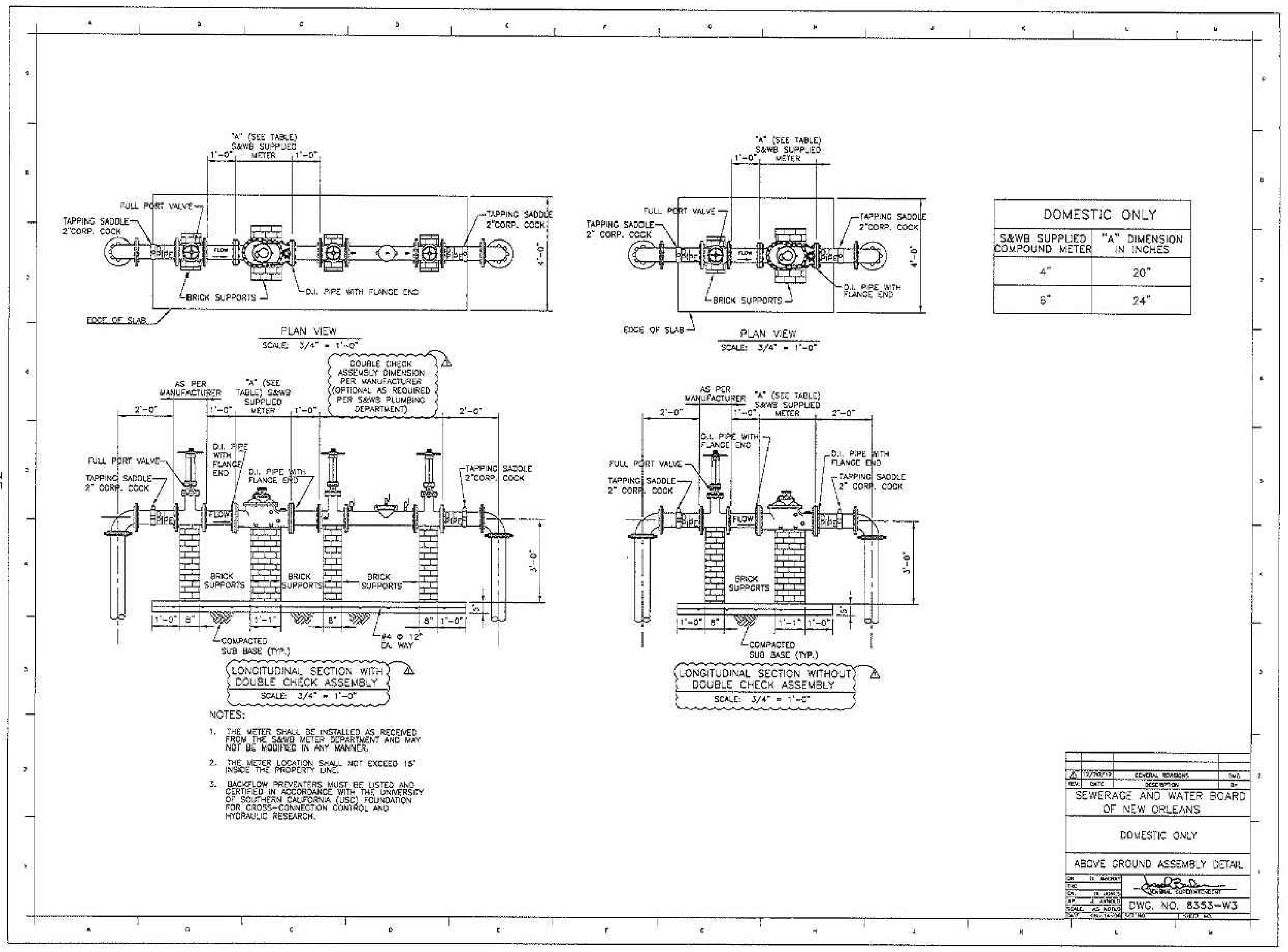
SHEET NAME

S&WB OF NEW ORLEANS STANDARD DRAWINGS

SHEET NO. C301

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

35



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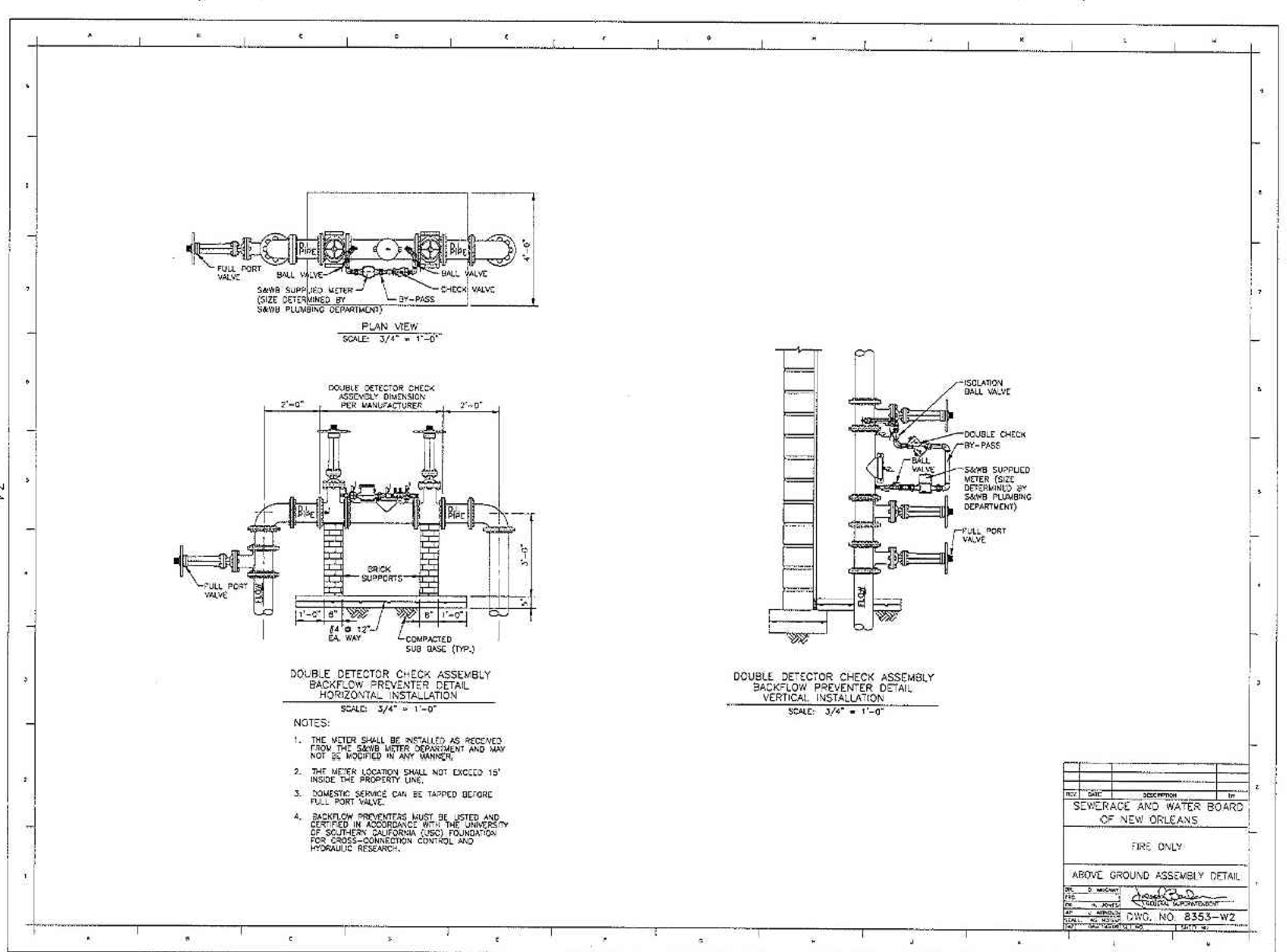


WATER NOTES

I. GENERAL

1. IT IS TO BE UNDERSTOOD THAT ALL REFERENCES TO "THE SEWERAGE AND WATER BOARD (S&WB) ENGINEER" THROUGHOUT THIS DOCUMENT SHALL REFER TO THE GENERAL SUPERINTENDENT OF THE S&WB OR HIS APPOINTED REPRESENTATIVE AND ALL REFERENCES TO "THE S&WB INSPECTOR" THROUGHOUT THIS DOCUMENT SHALL REFER TO THE INSPECTOR ASSIGNED TO THE PROJECT BY THE S&WB ENGINEER. THE S&WB INSPECTOR SHALL REPRESENT THE S&WB ENGINEER IN HIS/HER ABSENCE. IT IS ALSO TO BE UNDERSTOOD THAT ALL REFERENCES TO S&WB DRAWINGS AND SPECIFICATIONS REFER TO THE LATEST EDITION OR REVISION.

2. THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS AND EQUIPMENT REQUIRED FOR THE INSTALLATION OF NEW WATER MAINS, VALVES, MANHOLES, HYDRANTS AND HOUSE CONNECTIONS REQUIRED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.

3. THE S&WB FORCES SHALL BE RESPONSIBLE FOR THE CLOSURE OF ALL WATER VALVES. THE CONTRACTOR SHALL CONTACT THE CHIEF OF NETWORKS AT 2900 PEOPLES AVE., N.O. LA 70122, TWO WEEKS IN ADVANCE OF ANY REQUIRED WATER CLOSURES TO SCHEDULE THE CLOSURES.

4. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE GENERAL SPECIFICATIONS OF THE S&WB. ANY MODIFICATION FROM THE DESIGN DRAWINGS PERTAINING TO S&WB FACILITIES MUST BE APPROVED BY THE S&WB ENGINEER PRIOR TO CONSTRUCTION.

5. PRIOR TO THE INSTALLATION OF S&WB FACILITIES, THE ENTIRE AREA WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING THE ENTIRE WIDTH OF ANY SERVITUDE ADJACENT TO THE FRONT PROPERTY LINE, PLUS AN ADDITIONAL 3 FT. MUST BE FILLED TO THE FINISHED GRADE.

6. ELEVATIONS SHOWN ON THE DRAWING MAY REFER TO THE NAVD 88 OR TO THE CAIRO DATUM. IF THE NOTED ELEVATIONS REFERENCE THE CAIRO DATUM, 0.00 FT. NGVD EQUALS 20.43 FT. CAIRO DATUM.

7. IT IS TO BE UNDERSTOOD THAT WHEREVER SAND IS STIPULATED IN THE SPECIFICATIONS OR DRAWINGS, IT SHALL REFER TO PUMPED MISSISSIPPI RIVER SAND OR ANY NATURAL SAND DEPOSIT MEETING THE REQUIREMENTS OF AASHTO A-3 OR ASTM-SP.

8. THE CONTRACTOR SHALL NOTIFY THE GENERAL SUPERINTENDENT (625 ST. JOSEPH ST., N.O. LA 70165), WITH COPIES TO THE CHIEF OF ENGINEERING (8800 S. CLAIBORNE AVE., N.O., LA 70118), AND THE CHIEF OF CONSTRUCTION ADMINISTRATION AND INSPECTION (8800 S. CLAIBORNE AVE., N.O., LA 70118) OF THE S&WB IN WRITING NOT LESS THAN 3, NOR MORE THAN 10 DAYS IN ADVANCE OF STARTING THE PROJECT SO AS TO SCHEDULE THE INSPECTION OF ANY S&WB WORK. IF THE CONTRACTOR FAILS TO DO SO PRIOR TO STARTING HIS WORK, THE CONTRACTOR SHALL BE REQUIRED TO EXPOSE THE BEDDING ON ALL PIPES OR ANY OTHER CONCEALED WORK PREVIOUSLY INSTALLED IN ORDER TO OBTAIN THE APPROVAL OF THE S&WB INSPECTOR. ANY WORK PERFORMED WITHOUT A S&WB INSPECTOR'S APPROVAL WILL NOT BE ACCEPTED BY THE S&WB, NOR TIED INTO THE S&WB'S DISTRIBUTION SYSTEM.

9. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ELEVATION OF ALL EXISTING STRUCTURE INVERTS AND THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF WORK, AND SHALL BE RESPONSIBLE FOR ANY NEGLIGENCE ON HIS PART IN PROTECTING THEM. THE LOCATION OF SEWER AND WATER HOUSE CONNECTIONS CAN BE OBTAINED FROM THE S&WB.

10. ALL S&WB MAINTAINED WATER FACILITIES INSTALLED BY THE CONTRACTOR WILL BE SUBJECT TO THE APPROVAL OF THE S&WB INSPECTOR. THE CONTRACTOR SHALL PROVIDE THE S&WB INSPECTOR FULL ACCESS TO THE WORK THROUGHOUT CONSTRUCTION AND ABIDE BY ANY JUSTIFIABLE S&WB INSPECTOR'S REQUEST TO EXPOSE ANY AND ALL WORK INSTALLED BY THE CONTRACTOR.

11. BACKFILL MATERIAL FOR ALL UTILITIES SHALL BE SAND COMPACTED MECHANICALLY IN 12 IN. LIFTS. COMPACTION SHALL BE PERFORMED TO 95% MAXIMUM DRY DENSITY, NEAR OPTIMUM WATER CONTENT, AND SHALL MEET THE COMPACTION CHARACTERISTICS OF ASTM D-1557.

12. ALL REMOVED VALVES, HYDRANTS AND CASTINGS SHALL BE RETURNED TO THE S&WB CENTRAL YARD WAREHOUSE LOCATED AT 2900 PEOPLES AVE.

II. PIPE MATERIAL

ALL PIPE, PIPE FITTING, CONNECTORS, CORPORATION STOPS AND APPURTENANCES SHALL BE OF DOMESTIC MANUFACTURE, SHALL BE MADE OF LEAD FREE MATERIAL AND MEET ALL REQUIREMENTS OF AWWA, ASTM AND ANSI FOR USE IN POTABLE WATER DISTRIBUTION SYSTEMS.

A. POLYVINYL CHLORIDE (PVC)

1. ALL NEW WATER MAINS 6 IN. THROUGH 12 IN. SHALL BE SOLID WALL DR 18 PVC PIPE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900 "POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 4 IN. THROUGH 12 IN. FOR WATER DISTRIBUTION." NEW WATER MAINS 16 IN. THROUGH 36 IN. SHALL BE SOLID WALL DR 18 PVC PIPE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C905" POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 14 IN. THROUGH 48 IN. FOR WATER TRANSMISSION AND DISTRIBUTION." PIPE SHALL BE FURNISHED IN STANDARD LENGTHS (MIN. 16 FT.) WITH INTEGRAL CAST BELLS OR COUPLINGS USING ELASTOMERIC GASKETS CONFORMING TO AWWA STANDARD C900, OR TO ASTM D3139 OR F477.

2. FOR PVC WATER LINES, ALL PIPEFITTING SHALL BE DUCTILE IRON AND SHALL CONFORM TO THE FOLLOWING SECTION ON "DUCTILE IRON". ALL NUTS, BOLTS AND WASHERS SHALL BE MANUFACTURED OF STAINLESS STEEL.

B. DUCTILE IRON

1. DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C150, "THICKNESS DESIGN OF DUCTILE-IRON PIPE" AND AWWA STANDARD C151, "DUCTILE IRON PIPE, CENTRIFUGALLY CAST, FOR WATER," SPECIAL THICKNESS CLASS 52. DUCTILE IRON PIPE FOR ABOVE GROUND EXPOSED APPLICATIONS SUCH AS CANAL CROSSINGS, ETC., SHALL BE SPECIAL THICKNESS CLASS 56. DUCTILE IRON PIPE TO BE INSTALLED INSIDE OF AN UNDERGROUND DRAINAGE BOX CANAL SHALL BE SPECIAL THICKNESS CLASS 56. NO JOINTS WILL BE ALLOWED INSIDE THE BOX CANAL.

2. DUCTILE IRON FITTINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C110, "DUCTILE-IRON AND GRAY-IRON FITTING FOR WATER" OR C153, "DUCTILE-IRON COMPACT FITTING, 3 IN. THROUGH 24 IN. AND 54 IN. THROUGH 64 IN. FOR WATER SERVICE.

3. ALL DUCTILE IRON PIPE AND FITTING SHALL HAVE AN ASPHALTIC COATING IN ACCORDANCE WITH AWWA STANDARDS C151 AND C110. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE INSTALLED IN A POLYETHYLENE ENCASEMENT, 8 MILS IN THICKNESS, IN ACCORDANCE WITH AWWA STANDARD C105, "POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPE SYSTEMS". THIS POLYETHYLENE ENCASEMENT SHALL COVER ALL DUCTILE IRON PIPE AND FITTINGS, INCLUDING JOINTS, AND SHALL BE OVERLAPPED A MINIMUM OF 12 IN. BETWEEN SECTIONS AND SEALED WITH BLACK POLYETHYLENE TAPE.

4. DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED WITH CEMENT MORTAR. THE CEMENT MORTAR LINING SHALL COMPLY WITH AWWA STANDARD C104, "CEMENT-MORTAR LINING FOR DUCTILE-IRON PIPE AND FITTING FOR WATER".

5. JOINTS FOR DUCTILE IRON PIPE AND FITTINGS FOR BELOW GROUND APPLICATIONS SHALL BE PUSH-ON TYPE OR MECHANICAL JOIST WITH RUBBER GASKETS IN ACCORDANCE WITH AWWA STANDARD C111, "RUBBER GASKET JOINTS FOR DUCTILE IRON PRESSURE PIPE AND FITTINGS". JOINTS FOR DUCTILE IRON PIPE AND FITTINGS FOR ABOVE GROUND EXPOSED APPLICATIONS SUCH AS CANAL CROSSINGS, ETC., SHALL BE AMERICAN "FLEX-RING" OR U.S. PIPE "TR FLEX" OR APPROVED EQUAL. (U.S. PIPE "FIELD LOK 350 GASKET" AND AMERICAN "FAST-FRIP GASKET" ARE NOT ALLOWED). ALL JOINTS SHALL BE RESTRAINED PER MANUFACTURERS RECOMMENDATIONS. ANY REQUIRED DUCTILE IRON FLANGES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C115, "FLANGED DUCTILE IRON PIPE WITH DUCTILE IRON OR GRAY IRON THREADED FLANGES". STAINLESS STEEL BOLTS AND NUTS SHALL BE USED ON BOLTED FITTINGS, VALVES, SADDLES, ETC.

C. OTHER MATERIALS

STEEL, FIBERGLASS REINFORCED PIPE (FRP), AND HIGH DENSITY POLYETHYLENE (HDPE) ARE MATERIALS THAT HAVE BEEN APPROVED FOR INSTALLATION WITHIN THE WATER SYSTEM. THE SPECIFICATIONS FOR THESE MATERIALS WILL BE JOB SPECIFIC.

III. WATER MAIN INSTALLATION

1. THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH FROM ALL OTHER UTILITIES. THE MINIMUM ALLOWABLE HORIZONTAL DISTANCE BETWEEN THE WATER MAIN AND THE SEWER MAIN SHALL BE 6 FT., AND A MINIMUM VERTICAL SEPARATION OF 18 IN. AS STIPULATED IN LOUISIANA ADMINISTRATIVE CODE TITLE FIFTY-ONE (51) PUBLIC HEALTH-SANITARY CODE PART XII WATER SUPPLIES. THE MINIMUM ALLOWABLE HORIZONTAL DISTANCE BETWEEN THE WATER MAIN AND ALL OTHER UTILITIES SHALL BE 3 FT., AND A MINIMUM VERTICAL CLEARANCE OF 6 IN. ABOVE AND 12 IN. BELOW OTHER UTILITIES. IN INSTANCES WHERE A NEW WATER MAIN IS REPLACING AN EXISTING, THE NEW MAIN MUST BE A MINIMUM OF 3 FT. FROM THE EXISTING MAIN AND THE EXISTING MAIN MUST BE KEPT IN SERVICE UNTIL THE NEW MAIN IS TIED IN. THE MINIMUM COVER FOR A WATER MAIN IS AT 3.5 FT. ALL DIMENSIONS BETWEEN UTILITIES SHALL BE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.

2. THE CURVATURE OF THE WATER MAINS IN CUL-DE-SACS SHALL BE ACCOMPLISHED WITH POLYETHYLENE PE 3406 OR PE 3408 TUBING MATERIAL WITH LEAD FREE BRASS FITTINGS, USUALLY A 2 IN. MINIMUM DIAMETER LINE.

3. THE INSTALLATION OF ALL PIPE SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS AND THE APPLICABLE REQUIREMENTS OF SECTION F OF THE S&WB GENERAL SPECIFICATIONS. THE TRENCH BOTTOM SHALL BE SMOOTH AND FREE FROM ROOTS, ROCKS, ETC. THE PIPE SHALL BE LAID ON A 6 IN. BED OF SAND FOR THE FULL WIDTH OF THE TRENCH AND COMPACTED TO 95% STANDARD PROCTOR DENSITY AT OR NEAR THE OPTIMUM MOISTURE CONTENT. THE SAND SHALL BE PLACED AND CONSOLIDATED UNDER THE PIPE HAUNCHES TO PROVIDE ADEQUATE SIDE SUPPORT TO THE PIPE AVOIDING DISPLACEMENT AND MISALIGNMENT. THE REMAINDER OF THE TRENCH SHALL BE FILLED WITH SAND COMPACTED TO THE SPECIFIED GRADE AS REQUIRED BY THE S&WB GENERAL SPECIFICATIONS.

4. LUBRICANT FOR GASKETED PIPE AND FITTINGS SHALL BE SUITABLE FOR POTABLE WATER SYSTEMS AND SHALL CONFORM TO AND BE CERTIFIED BY BOTH OF THE FOLLOWING STANDARDS:
A. ANSI.NSF 14: PLASTIC PIPING SYSTEMS COMPONENTS AND RELATED MATERIALS.
B. ANSI/NSF 61: DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS.
THE USE OF OLEATE-BASED LUBRICANTS IS NOT PERMITTED FOR NEW WATER MAIN INSTALLATIONS DUE TO ODOR AND TASTE TRANSFER PROBLEMS.

5. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CLEANLINESS OF THE MAIN UNTIL COMPLETION OF THE WORK AND FINAL ACCEPTANCE OF THE CONTRACT. AT THE END OF EACH DAY'S WORK, OR STOPPAGE OF WORK, THE CONTRACTOR MUST PROVIDE AN APPROVED TEMPORARY WATERTIGHT PLUG AT EACH OPEN END. WHEN WORK IS RESUMED, THE TRENCH MUST BE FREE OF WATER AND DIRT BEFORE THE PLUG IS REMOVED.

6. THE CONTRACTOR SHALL MAKE ALL TIE-INS AND SHALL PROVIDE ALL MATERIAL FOR TIE-INS AS SPECIFIED IN THE CONTRACT DRAWINGS. THE TIE-IN SHALL BE CONFIGURED IN SUCH A MANNER TO REQUIRE 18 LINEAR FEET OF PIPE OR LESS. THE S&WB DOES NOT ALLOW INSTALLATION OF PIPE RUNS GREATER THAN 18 LINEAR FEET WITHOUT HYDROSTATIC PRESSURE TESTING AND CHLORINATION. ALL PIPE USED IN THE TIE-IN SHALL BE THOROUGHLY CLEANED AND SWABBED WITH A 1-5 PERCENT HYPOCHLORITE DISINFECTING SOLUTION JUST PRIOR TO BEING INSTALLED, AS RECOMMENDED BY AWWA C651. TIE-INS SHALL ONLY BE MADE ONCE THE CHLORINATION PROCESS HAS BEEN APPROVED.

7. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE S&WB PRIOR TO MAKING TIE-INS, AND SHALL WORK CONTINUOUSLY UNTIL COMPLETION ON ALL TIE-INS AND WATER SERVICES ARE RESTORED. WATER SERVICES WILL NOT BE INTERRUPTED UNTIL ALL CREWS AND EQUIPMENT ARE ON SITE WITH THE CONNECTION EXPOSED, AND PREPARED TO BEGIN THE TIE-IN. IN ADDITION, THE CONTRACTOR MUST SHOW THAT THE N.O. FIRE DEPT. AND AFFECTED RESIDENTS HAVE BEEN NOTIFIED 24 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO LIMIT RESIDENTIAL CLOSURES.

IV. METER MANHOLES, VAULTS & BOXES

1. WHERE MANHOLES OR VAULTS ARE REQUIRED WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND CONSTRUCTION OF THE METER MANHOLE OR VAULT IN ACCORDANCE WITH THE S&WB GENERAL SPECIFICATIONS SECTION F-12. METER SIZES 1 IN. AND SMALLER SHALL BE INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY IN A METER BOX AS SHOWN ON S&WB DWG. NO. 7134-W. METER SIZES 1 1/2 AND 2 IN. INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE INSTALLED IN MANHOLES AS SHOWN ON S&WB DWG. NO. 7332-W. METER SIZES 4 IN. TO 12 IN. INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE INSTALLED IN VAULTS AS SHOWN ON S&WB DWG. NO. 7531-W.

2. ALL MANHOLE FOUNDATION SLABS SHALL BE PLACED ON A 6 IN. LAYER OF CRUSHED STONE OR APPROVED EQUAL BEDDING MATERIAL.

3. METER BOXES SHALL BE ADJUSTED TO FINAL GRADE. THERE SHALL BE NO SEPARATION BETWEEN THE BARREL AND LOWER METER PAN. NO ADJUSTMENT

V. HOUSE CONNECTIONS

1. WATER HOUSE CONNECTIONS SHALL BE INSTALLED AT THE CENTER OF EACH LOT UNLESS OTHERWISE APPROVED BY THE S&WB ENGINEER. WHEN THE WATER MAIN IS LOCATED OUTSIDE OF THE ROADWAY AND SERVICE CONNECTIONS ARE REQUIRED ON THE OPPOSITE SIDE OF THE STREET, THE CONTRACTOR SHALL FURNISH AND INSTALL PVC CONDUIT PIPE (MIN 0.216 IN. WALL THICKNESS, MIN. 3 IN. DIAMETER) WITH ENDS TEMPORARILY SEALED. FOR NEW CONSTRUCTION, THE LOCATION OF ALL WATER HOUSE CONNECTIONS SHALL BE IMPRINTED ON THE CURB WITH THE LETTER "W" NOT LESS THAN 3 IN. HIGH AND 1/4 IN. DEEP. SIZE OF TAP, CORPORATION COCK AND POLYETHYLENE PIPE SHALL BE 1" FOR 5/8 IN. TO 1 IN. METERS AS SHOWN ON S&WB DWG. NO. 7134-W.

2. ALL BRONZE/BRASS FITTINGS, CONNECTORS, CORPORATION STOPS AND APPURTENANCES SHALL BE OF DOMESTIC MANUFACTURE, SHALL BE MADE OF LEAD FREE BRONZE/BRASS, AND MEET ALL REQUIREMENTS OF AWWA, ASTM AND ANSI FOR USE IN THE POTABLE WATER DISTRIBUTION SYSTEMS.

3. NO DIRECT TAPPING OF THE PIPE WILL BE PERMITTED FOR MAKING HOUSE CONNECTIONS. SERVICE SADDLES SHALL BE BRONZE CLOW NO. 3407 G, J. JONES J-996, MUELLER SERIES H-13400, S90 FORD BRASS SADDLE, OR FORD FC202. THE CONTRACTOR SHALL USE ONLY SHELL TYPE HOLE CUTTERS THAT WILL RETAIN THE COUPON.

VI. METERS

1. REQUIRED METERS WILL BE FURNISHED BY THE S&WB AT NO ADDITIONAL COST TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND CONSTRUCTION OF THE METER BOX, AND METER MANHOLE OR VAULT.

2. THE METER SHALL BE INSTALLED AS RECEIVED FROM THE S&WB METER DEPARTMENT AND MAY NOT BE MODIFIED IN ANY MANNER. ANY MODIFICATIONS WILL VOID THE UL WARRANTY AND, AS SUCH, MAY SUBJECT THE OWNER TO FINANCIAL PENALTY AND LOSS OF SERVICE.

3. METERS INSTALLED ON PRIVATE PROPERTY SHALL BE INSTALLED AS SHOWN ON S&WB DWG. NO. 8353-W AND MEET THE REQUIREMENTS OF THE S&WB PLUMBING DEPARTMENT.

VII. VALVES AND HYDRANTS

1. VALVES 4 IN. TO 12 IN. INSTALLED IN THE PUBLIC RIGHT-OF-WAY SHALL BE S&WB R.D. WOOD GATE VALVES AS SHOWN IN S&WB DWG. 11897-W-62 OR AMERICAN RD ROTATING GATE DISC VALVE C 500 WITH ADJUSTABLE PACKING. VALVES 16 IN. AND LARGER SHALL BE AMERICAN R/D GATE VALVES. ALL VALVES MUST BE INSTALLED IN MANHOLES, AND LOCATED AT THE PROJECTION OF THE PROPERTY LINE.

2. HYDRANTS SHALL BE 5 IN. BREAKAWAY FIRE HYDRANT BRONZE TRIM AS DETAILED IN S&WB DWG. NO. 11825-W-62, 5 1/4" IN. AMERICAN DARLING FIRE HYDRANT B-62-B, S&WB MUELLER HYDRANT A473 AS DETAILED IN MUELLER DRAWING NO. FH 285 AND 5" NEW ORLEANS HYBRID-2 AS DETAILED IN KENNEDY VALVE DRAWING NO. 81661-HYBRID-2. FOR DETAILS OF SETTING HYDRANTS SEE S&WB DWG. NO. 6179-F-2. HYDRANT LEADS SHALL BE 6" SOLID WALL PVC PIPE CLASS 150, AWWA STANDARD C-900. ALL HYDRANT LEAD JOINTS SHALL BE RETRAINED. A 6" VALVE WITH VALVE BOX SHALL BE INSTALLED ON ALL HYDRANT LEADS. HYDRANTS SHALL BE INSTALLED WITH WOOD BLOCKING AND BE SPACED NOT MORE THAN 350 FT. APART, 6 FT. OFF THE PROJECTED PROPERTY LINE ON CORNER LOTS AND WITHIN 5 FT. OF THE CENTER OF THE LOT FOR INTERIOR LOTS.

VIII. TESTING, CHLORINATION AND FLUSHING

1. ALL NEW MAINS, VALVES, HYDRANTS AND SERVICES SHALL BE INSTALLED PRIOR TO PRESSURE TESTING. THE SYSTEM SHALL BE PRESSURE TESTED BY THE CONTRACTOR IN THE PRESENCE OF THE S&WB INSPECTOR AND IN ACCORDANCE WITH PARAGRAPH F-15 OF THE GENERAL SPECIFICATIONS. THE TEST SHALL BE SCHEDULED BY THE S&WB INSPECTOR. ALL AIR SHALL BE BLED FROM THE SYSTEM PRIOR TO TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED AS A RESULT OF TEST FAILURES, INCLUDING REPAIRS TO DEFECTS.

2. ALL NEW AND/OR MODIFIED SEGMENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE TESTED TO 100 P.S.I. THIS PRESSURE SHALL BE MAINTAINED FOR A MINIMUM PERIOD OF TWO (2) HOURS WITH NO DISCERNIBLE PRESSURE LOSS. LEAKS SHALL BE REPAIRED BY REMOVING AND REPLACING FAULTY SECTIONS. THE PRESSURE TEST SHALL BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECT SUPERVISION OF THE ENGINEERING DEPARTMENT. BEFORE BEING PLACED IN SERVICE, ALL NEW, MODIFIED AND/OR CONTAMINATED SEGMENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE FLUSHED AND DISINFECTED (CHLORINATED) BY THE ENGINEERING DEPARTMENT PERSONNEL OR UNDER THEIR DIRECT SUPERVISION. FLUSHING SHOULD BE DONE AT FLOW RATES SUFFICIENT TO PROVIDE A VELOCITY IN THE LINES OF AT LEAST 2.5 FEET PER SECOND. DISINFECTION SHOULD COMPLY WITH AWWA STANDARD C651, "DISINFECTING WATER MAINS". ONLY AFTER SATISFACTORY PRESSURE TESTING AND DISINFECTION (CHLORINATION) IS COMPLETED CAN THE SEGMENT BE TIED INTO THE EXISTING WATER DISTRIBUTION SYSTEM. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO MAKE A TIE-IN TO THE EXISTING WATER DISTRIBUTION SYSTEM WITHOUT DIRECT SUPERVISION OF THE ENGINEERING DEPARTMENT. ALL COSTS ASSOCIATED WITH THE TESTING AND CHLORINATION PROCEDURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR FAILED CHLORINATION.

3. THE CONTRACTOR SHALL INSTALL THE FLUSHING APPARATUS IN ACCORDANCE WITH S&WB DWG. NOS. 7004-W AND 7005-W. THE CONTRACTOR SHALL FLUSH THE NEWLY INSTALLED PIPING SYSTEM WITH MAXIMUM FLOW PRIOR TO THE CHLORINATION BY THE S&WB.

4. THE CONTRACTOR SHALL NOTIFY THE S&WB 1 WEEK IN ADVANCE OF THE DESIRED CHLORINATION DATE. CHLORINATION OF THE WATER MAINS SHALL BE PERFORMED BY THE S&WB IN ACCORDANCE WITH PAR. F-16 OF THE GENERAL SPECIFICATIONS. THE S&WB FORCES WILL REQUIRE APPROXIMATELY 4 WORKING DAYS, WEATHER PERMITTING, TO CONDUCT AND PROVIDE TEST RESULTS OF THE SYSTEM. IF THE INITIAL DISINFECTION DOES NOT PRODUCE SATISFACTORY SAMPLES, THE PROCESS SHALL BE REPEATED AND THE CONTRACTOR SHALL BE ASSESSED AS STATED BELOW.

5. THE S&WB WILL PERFORM THE INITIAL CHLORINATION OF THE MAINS AT NO CHARGE TO THE CONTRACTOR. THE S&WB WILL CEASE OPERATION UNTIL THE SYSTEM IS FLUSHED AND MADE CLEAN BY THE CONTRACTOR. THE CONTRACTOR SHALL BEAR ANY AND ALL COSTS ASSOCIATED WITH RECHLORINATION OF THE SYSTEM.

6. THE NEW MAIN MUST BE CONNECTED TO THE S&WB'S SYSTEM WITHIN 72 HOURS OF NOTIFICATION OF PASSING THE CHLORINATION TEST. FAILURE TO COMPLETE THE TIE-INS WITHIN THIS TIME LIMITATION WILL RESULT IN RETESTING THE NEW MAIN AT THE EXPENSE OF THE CONTRACTOR.

IX. INSPECTION

ALL INSTALLATION OF WATER MAINS AND RELATED APPURTENANCES WILL BE PERFORMED UNDER THE INSPECTION OF, AND TO THE SATISFACTION OF THE S&WB INSPECTOR THROUGHOUT THE COURSE OF THE WORK.

X. FINAL ACCEPTANCE

1. THE NEW WATER MAINS AND APPURTENANCES MUST BE INSTALLED LEVEL, AT PROPER GRADE, HAVE PASSED ALL REQUIRED TESTS, AND MUST BE TIED INTO THE EXISTING WATER SYSTEM PRIOR TO OBTAINING FINAL ACCEPTANCE.

2. BEFORE FINAL INSPECTION OF THE SYSTEM, THE CONTRACTOR SHALL SUBMIT AN "AS-BUILT" DRAWING TO THE S&WB SHOWING ANY CHANGES IN LINE OR GRADE FROM THE ORIGINAL DRAWINGS, AS WELL AS SHOWING THE LOCATION OF ALL HOUSE CONNECTIONS, IN ACCORDANCE WITH S&WB REQUIREMENTS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CERTIFY THAT THE "AS-BUILT" DRAWINGS ARE CORRECT. ANY INACCURACY AS DETERMINED BY THE S&WB IN THE "AS-BUILT" DRAWINGS SHALL BE CORRECTED AT THE COST OF THE CONTRACTOR.

3. THE CONTRACTOR MUST CONTACT THE S&WB TO SET A DATE FOR FINAL INSPECTION. IN THE EVENT THE CONTRACTOR CALLS FOR AN INSPECTION AND THE WORK IS NOT ADEQUATELY COMPLETE, A NEW INSPECTION DATE WILL THEN BE SET AT THE DISCRETION OF THE S&WB INSPECTOR.

4. FINAL ACCEPTANCE OF THE SYSTEM WILL BE SUBJECT TO A 1 YEAR MAINTENANCE PERIOD FOLLOWING FINAL ACCEPTANCE OF THE PROJECT BY THE S&WB.

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

SPECIFICATIONS FOR INSTALLATION OF WATER MAINS

DR. D. MC.; TRC.; CK. M. J.; AP. R. S.; SCALE NONE; DATE 08-19-15

GENERAL SUPERINTENDENT

DWG. NO. 7260-W — SHEET NO. 2

SEWER NOTES

I. GENERAL

1. It is to be understood that all references to "The Sewerage and Water Board (S&WB) Engineer" throughout this document shall refer to the General Superintendent of the S&WB or his appointed representative, and all references to "The S&WB Inspector" throughout this document shall refer to the inspector assigned to the project by the S&WB Engineer. The S&WB Inspector shall represent the S&WB Engineer in his/her absence. It is also to be understood that all references to S&WB drawings and specifications refer to the latest edition or revision.

2. The Contractor shall have an individual with a Wastewater Collection Class IV license, obtained through the Louisiana Department of Health and Hospitals, on site at all times during the installation of the sewer lines and appurtenances.

3. The Contractor shall furnish all labor, supervision, materials, and equipment required for the installation of new sewer mains, manholes, house connections, etc., required by the project drawings and specifications.

4. All workmanship and materials shall conform to the General Specifications of the S&WB. Any modification from the design drawings must be approved by the S&WB Engineer prior to construction.

5. Prior to the installation of any S&WB facilities, the entire area within the public right-of-way, including the entire width of any servitudes adjacent to the front property line, plus an additional 3 ft. must be filled to the finished grade.

6. All elevations shown on the drawings refer to Cairo Datum in which 0.00 ft. NGVD is equal to 20.43 ft. Cairo Datum.

7. It is to be understood that wherever sand is stipulated in the specifications or drawings, it shall refer to pumped Mississippi River sand or any natural sand deposit meeting the requirements of AASHTO A-3 or ASTM-SP.

8. The Contractor shall notify the General Superintendent (625 St. Joseph St. N.O. LA 70165), with copies to the Chief of Engineering (8800 S. Claiborne Ave N.O. LA 70118), and the Chief of Construction Administration and Inspection (8800 S. Claiborne Ave N.O. LA 70118) of the S&WB in writing not less than three nor more than ten days in advance of starting the project so as to schedule the inspection of any S&WB work. Failure to do so prior to starting this work shall require the Contractor to expose the bedding on all pipe, or any other concealed work previously installed in order to obtain the approval of the S&WB Inspector. Any work performed without an S&WB Inspector's approval will not be accepted by the S&WB nor tied into the S&WB's collection system.

9. The location of existing utilities shown on the drawings should be considered approximate. The Contractor shall verify the elevation of all existing structure inverts and the location of all existing utilities prior to the start of work, and shall be responsible for any negligence on his part in protecting them. The location of sewer and water house connections can be obtained from the S&WB.

10. All S&WB maintained sewer work performed by the Contractor would be subject to the approval of the S&WB Inspector. The Contractor shall provide the S&WB Inspector full access to the work throughout construction and abide by any justifiable S&WB Inspector's request to expose any and all work installed by the Contractor.

11 Backfill material for all utilities shall be sand either compacted mechanically in 6 in. lifts or flooded in 3 ft. lifts. Compaction shall be performed to 95% maximum dry density, near optimum water content, and shall meet the compaction characteristics of ASTM D-1557.

12. Specifications for sewer force main pipe shall be job specific.

II. PIPE MATERIAL

1. Material for sewer mains shall be solid wall PVC pipe, manufactured in accordance with ASTM D-3034 specifications and to a SDR (strength dimension ratio) of 26 with elastomeric gaskets. The elastomeric gaskets and retainer rings shall be installed by the manufacturer in accordance with ASTM D-3212 and F-477.

2. The fittings for solid wall PVC pipe shall be the same inside diameter as the solid wall PVC with an SDR of 35.

3. PVC sewer mains, sizes 18 in. through 27 in. shall be solid wall PVC pipe conforming to ASTM F-679.

4. The maximum allowable compression for installed PVC sewer pipe is 7.5 percent (7.5%) of its original vertical inside diameter. Pipe exceeding this allowable compression shall be removed and replaced with new pipe, reinstalled at the Contractor's expense.

5. At points of tie-ins to the existing system, the new pipe material should match the existing. If the new material does not match the existing material, the connection shall be made with the use of a coupling and bushing adapter intended for that purpose, ARC (Mission Rubber Co.), FERNCO, or equal, conforming to ASTM C-425.

6. Ductile iron pipe shall be used where specified on the construction drawings and shall conform to Section II-B, "Ductile Iron" of the S&WB 7260 Water Notes except that the interior lining shall be polyethylene, "Polybond", or approved equal, and must be factory installed with 40 mils nominal thickness.

III. SEWER MAIN INSTALLATION

1. The sewer main must be laid in a separate trench from all other utilities. The minimum allowable horizontal distance between the sewer main and the water main shall be 6 ft., and a minimum vertical separation of 18 in. as stipulated in Louisiana Administrative Code Title Fifty-One (51) Public Health-Sanitary Code Part XII Water Supplies. The minimum allowable horizontal distance between the sewer main and other utilities shall be 3 ft., and a minimum vertical clearance of 12 in. above or 12 in. below other utilities. For payment purposes, depths of sewer mains shall be determined by the average measurements from inverts to the top of castings at finished grade of connecting manholes. All dimensions between utilities shall be measured from outside diameter to outside diameter.

2. Sewer mains and interconnecting manholes shall be installed at elevations indicated on the plans unless changed by the S&WB Engineer. All mains must be laid continuously from manhole to manhole, laid from the low end of the system with the bell facing upstream, and must be of the same size pipe diameter. The minimum depth of a sewer main shall be 5.5 ft. from surface to invert.

3. Installation of the solid wall PVC pipe shall conform to Section D, "The Construction of Sewers," of the General Specifications of the S&WB. The trench bottom shall be smooth and free from rocks, roots, etc. After the sheeting and/or foundation lumber is placed, the pipe shall be laid on a smooth bed of approved bedding material. Bedding and foundations for mains and standard sheeting and bracing shall comply with S&WB Dwg. No. 4697-E5A. The bedding material shall be extended under, around, and over the top of the pipe and compacted in layers not greater than 6 in. by a mechanical vibrating compactor approved by the S&WB Engineer until a minimum of 95% standard proctor density is attained at or near optimum moisture content for the full width of the trench. The bedding material shall be Class I Angular Material (1/4 in. to 1-1/2 in.), ASTM D2321 or ASTM C33. The S&WB Engineer reserves the right to approve the type of bedding material to be used.

4. Filter fabric shall be installed around the bedding and under the backfill in all sewer installations as shown in S&WB Dwg. No 4697-E5A, and conform by weight to ASTM D1910. The filter fabric shall be DOTD Class C or D, non-woven pervious sheets of plastic yarn MiraFi 170N, or an equal approved by the S&WB Engineer, constructed so the yarns will retain their relative position with respect to each other. Edges of the fabric shall be finished to prevent the outer yarn from pulling away from the fabric. The fabric shall be installed as follows:
   a. After the trench is excavated, the foundation lumber shall be placed in the bottom of the trench as shown on the standard drawings. The filter fabric shall be cut to the needed width, including allowances for "loose" placement in the trench, with a double overlap on top of the bedding material after placement. The fabric shall be laid over the foundation lumber in the trench along the pipes alignment with an 18 in. minimum overlap at the ends of subsequent lengths. Care should be taken to place the fabric tightly against the soil so that no voids occur outside the fabric. Wrinkles or folds should be avoided. The sides of the fabric which will be used as a double-top overlap should temporarily be pinned to the sides of the trench.
   b. After installing the fabric, an initial 6 in. layer of bedding material shall be placed and compacted to the proper grade before placing the sewer pipe. The remainder of the bedding material shall then be placed around and above the pipe and compacted. Compaction is required to seat the fabric and bedding material against the trench wall and to reduce settlement.
   c. After compaction, the two edges of the filter fabric shall be unfastened and overlapped for the full width of the trench on top of the bedding material. The backfill material shall then be placed on top of the filter fabric and compacted.

IV. MANHOLES

1. Manholes shall conform to Section D of the General Specifications and S&WB Dwg. Nos. D-870. Short sections of pipe with bell fittings and water stops, as recommended by the manufacturer and as shown on S&WB Dwg. No. 8178-SD, shall be used as connectors for brick manholes. As an alternative, a sand impregnated PVC stub, approved by the S&WB Engineer, may be used and grouted in place using a type three high early strength cement, or quick setting EMBECO, or similar material approved by the S&WB Engineer. KOR-N-SEAL Boots, or approved equal, as shown on S&WB Dwg. No. 8178-SD, shall be used for precast manhole pipe connections.

2. Manhole steps shall conform to S&WB Dwg. No. D-1359.

3. Abandoned sewer mains must be plugged in the manhole. Walls of abandoned manholes shall be removed to a minimum of 2 ft. below finished grade and the abandoned manholes must be filled with sand and flooded. Castings and covers are to be removed and returned to the S&WB Central Yard, 2900 Peoples Ave N.O. LA 70122.

4. All manhole foundation slabs shall be placed on a 6 in. layer of crushed stone or approved equal bedding material in accordance with S&WB Dwg. No. D-870.

V. HOUSE CONNECTIONS

1. House Connections shall be installed using 6 in. solid wall SDR 26 PVC pipe extended to the property line as shown on S&WB Dwg. No. 6312-E5. The use of saddles will not be permitted; all such connections shall be made with the use of approved fittings. All pipe and fittings shall be the same material as the sewer main unless otherwise approved by the S&WB Engineer. House Connections shall have a minimum of 3.5 ft. and a maximum of 4.5 ft. of cover, measured from the gutter line and from the ground surface at the property line. The house connection shall end at the property line or extend through any proposed servitudes adjacent to the property line with a rubber gasketed plastic cap. House connections shall not require bracing, foundation lumber, or bedding. The location of all sewer house connections shall be imprinted on the curb with an "S", 3 in. high and ¼ in. deep as shown on S&WB Dwg. No. 6312-E5.

VI. TESTING AND INSPECTION

1. All installation of sewer mains and related appurtenances will be performed under the inspection of, and to the satisfaction of the S&WB Inspector throughout the course of the work.

2. Infiltration rate for newly installed gravity mains shall be zero gallons. Infiltration test rates for force mains shall not exceed a rate of 250 gallons per in. of diameter per mile, per 24 hours, shall be conducted by the Contractor and observed by the S&WB representative. This test shall be performed only after the backfilled trench has remained flooded for at least 12 hours prior to the test. The trench shall remain flooded during the test. The Contractor shall furnish all material, labor and equipment necessary for this test. If an infiltration test is not performed prior to paving, an exfiltration test may be made as directed by the S&WB Engineer. Any detectable leak shall be repaired by the Contractor at the Contractor's expense. The infiltration test is to be performed by the Contractor and shall be witnessed by the S&WB Inspector.

3. At the completion of backfilling, and prior to final acceptance of the sewer, 100% of the sewer main must be mandreled. This mandrel work shall be witnessed by the S&WB Inspector and performed by the Contractor at no direct pay. The S&WB will provide the mandrels for all tests and the Contractor shall place the pull lines in the mains. The Contractor will have the option of passing the mandrels at any time after final backfill of the trenches but prior to final acceptance. It is required that a S&WB Representative and the Contractor witness the actual mandreling test(s).

4. The sewer line shall be cleaned and videoed prior to the installation of the wearing course. It is required that a S&WB Representative and the Contractor physically eye-witness the actual cleaning and TV/video test(s).

5. The Contractor will be required to repair, at his own expense and in an approved manner, all defects in workmanship or material disclosed by these inspections prior to obtaining final acceptance. The Contractor shall also bear all cost associated with the re-testing, including any cost incurred by the S&WB.

VII. FINAL ACCEPTANCE

1. Before final inspection of the system, the Contractor shall submit an "AS-BUILT" drawing to the Board showing any changes in line or grade from the original drawings, as well as showing the location of all house connections, in accordance with S&WB requirements. It will be the Contractor's responsibility to certify that the "AS-BUILT" drawings are correct. Any inaccuracy as determined by the S&WB in the "AS-BUILT" drawings shall be corrected at the cost of the Contractor.

2. The Contractor must contact the S&WB to set a date for final inspection. In the event the Contractor calls for an inspection and the work is not adequately complete, a new inspection date will then be set at the discretion of the S&WB Inspector.

3. Final acceptance of the system will be subject to a 1-year maintenance period following final acceptance of the project by the S&WB.

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

SPECIFICATIONS FOR INSTALLATION OF SEWER MAINS

DR. Q. FENG; TRC.; CK. B. JONES; AP. J. BECKER; SCALE NONE; DATE 05-05-05

GENERAL SUPERINTENDENT

DWG. NO. 7260-S — SET NO. — SHEET NO.

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CITY REQUIREMENTS. I AM GENERALLY ADMINISTERING THE WORK.

ENGINEER ______ REG. NO.

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. No. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

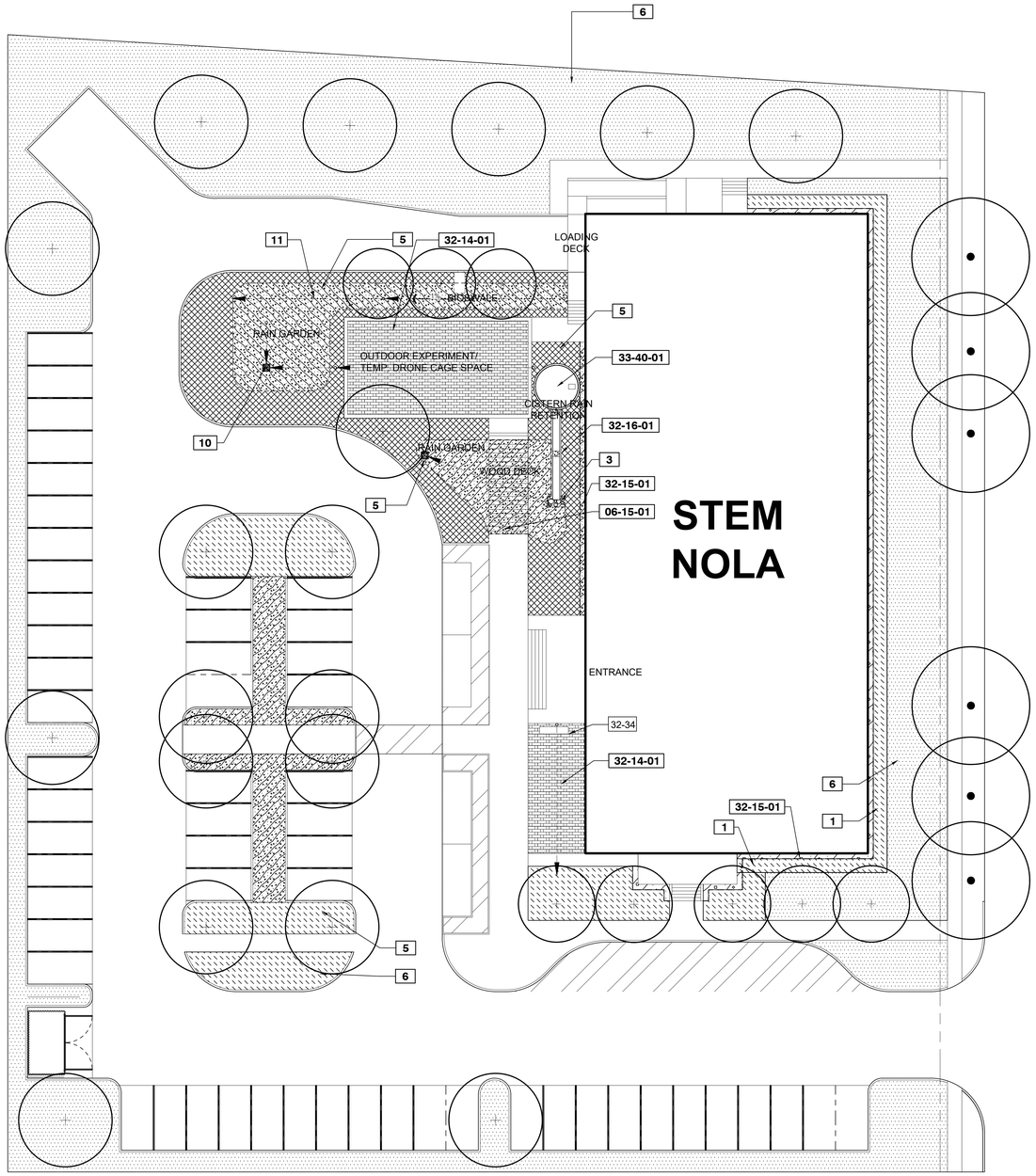
REVISIONS

WDG Project No: 2024002

SHEET NAME

S&WB OF NEW ORLEANS STANDARD DRAWINGS

SHEET NO. C302



A OVERALL LANDSCAPE PLAN

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION
	1	PLANTING AREA
	3	ANGULAR RIPRAP 6-12", 12" THICK, OVER NONWOVEN GEOTEXTILE
	5	BIORENTENTION PLANTING WITH BIORETENTION SOIL MIX, 12" MIN.
	6	TURF GRASS
	10	RAIN GARDEN OVERFLOW STRUCTURE SEE CIVIL FOR DETAIL. SEE L302.
	11	BIOSWALE CENTER LINE

06 WOOD, PLASTICS AND COMPOSITES

	06-15-01	PT WOOD DECK USE UC3B FOR DECKING, JOISTS, AND BEAMS 316 SS FASTENERS/HANGERS TREAT FIELD CUTS W/ COPPER NAPHTHENATE PROVIDE JOIST-TOP MEMBRANES

32 EXTERIOR IMPROVEMENTS

	32-14-01	3x12 AQUALINE PERMEABLE PAVERS BY BELGARD

AGGREGATE SURFACE

	32-15-01	WASHED ANGULAR STONE, #3, 4" DEPTH

CURBS AND GUTTERS

	32-16-01	SS SCUPPER WATER FEATURE

Site Furnishings

	32-34	SINKER CYPRESS BENCH ON CONC. BASE CONC. BASE CONSIDERED INCIDENTAL

PLANTING ACCESSORIES

	32-94-01	1/4" STEEL METAL EDGE, MILL FINISH

33 UTILITIES

	33-40-01	15,500 GAL VERTICAL HDPE CISTERN ON REINF. CONC. PAD VINYL WRAP ON HDPE: LSE-RATED CAST FILM W/ UV LAM

CISTERN & RUNNEL NOTES

15,500 GAL HDPE CISTERN ON REINF. CONC. PAD;

6" CISTERN OVERFLOW TO RUNNEL HEADBOX — FREE DISCHARGE SPOUT W/ ≥2" AIR GAP OVER CHANNEL; ANTI-VORTEX & INSECT SCREEN AT TANK.

3" CONTROLLED DISCHARGE (MOTORIZED BALL VALVE) TO SAME HEADBOX VIA DIFFUSER PLATE; PROVIDE MANUAL BYPASS.

RUNNEL HEADBOX (24"×24"): REMOVABLE SS TRASH BASKET, DIFFUSER, AND ENERGY DISSIPATION; LIP EL. ABOVE RUNNEL FREEBOARD.

STEEL RUNNEL CHANNEL (24" W × 6" D) ON MONOLITHIC CONC. PLINTH; SLOPE 1.0% (±0.10%); CHANNEL LIP PROJECTS 3–4" PAST FACE.

ENERGY DISSIPATION APRON AT RUNNEL OUTLET — ANGULAR RIPRAP 6–12" (D50≈9"), 18" THK OVER NON-WOVEN GEOTEXTILE; APRON = RUNNEL WIDTH + 24" × 36" MIN; KEY EDGES 6".

SET RUNNEL INVERT @ HEADBOX ≥3" BELOW THE OVERFLOW SPOUT INVERT.

SET HEADBOX RIM ≥2" ABOVE RUNNEL DESIGN FREEBOARD (NO SPLASHOUT UNDER OVERFLOW).

CONTROLLED DISCHARGE INVERT LOWER THAN OVERFLOW INVERT (BOTH DAYLIGHT TO SAME HEADBOX).

RUNNEL SLOPES CONTINUOUSLY TO RAIN GARDEN; NO SAGS.

RAIN GARDEN EMERGENCY SPILLWAY MUST BE LOWER THAN CISTERN MANWAY AND HIGHER THAN RAIN GARDEN RIM.

OVERFLOW AND CONTROLLED DISCHARGE BOTH ENTER THE RUNNEL; THE RUNNEL CONVEYS TO THE RAIN GARDEN. NO SEPARATE BYPASS.

MAINTAIN AIR GAP AT OVERFLOW; DO NOT SUBMERGE OVERFLOW OUTLET.

PROVIDE SCREENS AT TANK OVERFLOW AND A REMOVABLE TRASH BASKET IN HEADBOX; CLEAN AFTER STORMS AND QUARTERLY.

SIZE RUNNEL/APRON FOR OVERFLOW PEAK (≥ ROOF INLET CAPACITY FOR DESIGN STORM).

ALL STAINLESS FASTENERS AT WATER HARDWARE; POLYURETHANE SEALANT BETWEEN STEEL CHANNEL AND CONCRETE.

GENERAL NOTES

WORK COVERED BY THIS SECTION INCLUDES FURNISHING OF AND PAYING FOR ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, OTHER ITEMS, AND APPLIANCES NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE DRAWING.

PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK AND PROVIDE FOR ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITY LINES (TELEPHONE, GAS, WATER, ELECTRICAL, CABLE, ETC.) PRIOR TO START OF ANY WORK.

CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING.
THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES.

NO ATTEMPT HAS BEEN MADE BY PATCH LANDSCAPE ARCHITECTURE LLC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIP, SERVITUDES, EASEMENTS, RIGHT- OF - WAYS, OR OTHER BURDENS ON THE PROPERTY OTHER THAN THAT FURNISHED BY THE CLIENT AND/OR HIS REPRESENTATIVE. CONTRACTOR SHALL CONFIRM.

THE LOCATION OF PROPERTY LINES, SERVITUDES AND UTILITIES ARE APPROXIMATE AND WERE FURNISHED BY ORIGINAL SURVEYED INFORMATION. PATCH LANDSCAPE ARCHITECTURE LLC DOES NOT WARRANT THE EXACT LOCATION OF INFORMATION SHOWN. CONTRACTOR SHALL CONFIRM

FOR UNDERGROUND INFORMATION:
LOUISIANA ONE CALL 1 800 272 3020

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4435 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

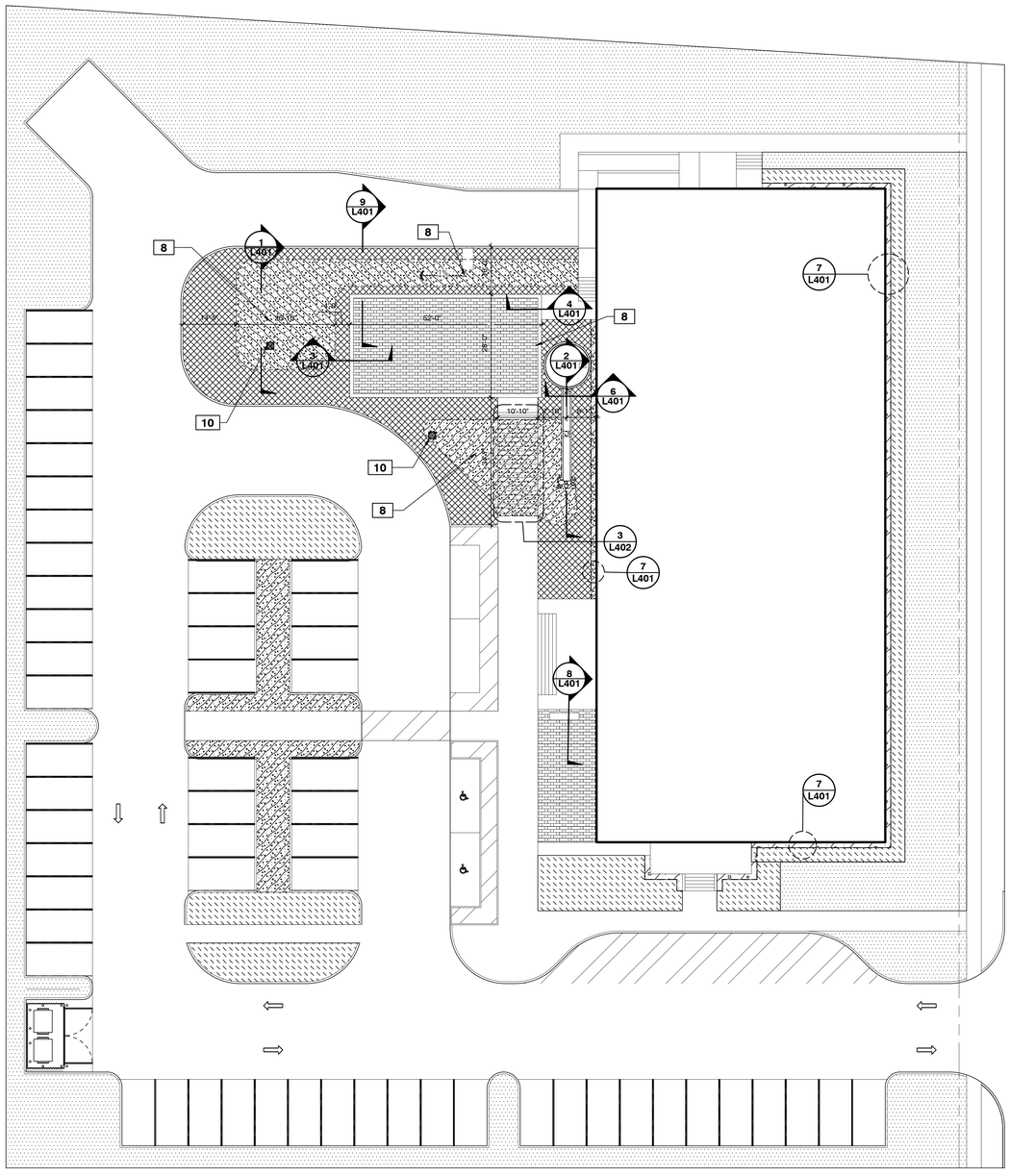
REVISIONS

STATE OF LOUISIANA
Reg. No. 5645
LICENSED
LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
OVERALL LANDSCAPE PLAN

SHEET NO. L101



A MATERIALS AND LAYOUT PLAN

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
	1	PLANTING AREA	1,688 sf	
	3	ANGULAR RIPRAP 6-12", 12" THICK, OVER NONWOVEN GEOTEXTILE	0.46 cy	
	5	BIORENTENTION PLANTING WITH BIORETENTION SOIL MIX, 12" MIN.	3,775 sf	1/L401
	6	TURF GRASS		
	8	6" PERF PIPE, SEE L302		
	10	RAIN GARDEN OVERFLOW STRUCTURE SEE CIVIL FOR DETAIL. SEE L302.		

06 WOOD, PLASTICS AND COMPOSITES

	06-15-01	PT WOOD DECK USE UC3B FOR DECKING, JOISTS, AND BEAMS 316 SS FASTENERS/HANGERS TREAT FIELD CUTS W/ COPPER NAPHTHENATE PROVIDE JOIST-TOP MEMBRANES	304 sf	1/L402

32 EXTERIOR IMPROVEMENTS

	32-14-01	3x12 AQUALINE PERMEABLE PAVERS BY BELGARD	1,858 sf	/

AGGREGATE SURFACE

	32-15-01	WASHED ANGULAR STONE, #3, 4" DEPTH	44.4 cy	7/L401

PLANTING ACCESSORIES

	32-94-01	1/4" STEEL METAL EDGE, MILL FINISH	370 lf	7/L401

LAYOUT NOTES

1. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURBS OR WALLS UNLESS OTHERWISE NOTED.

2. AREAS TO RECEIVE PAVING, CURBS, PLANTING, AND OTHER SITE IMPROVEMENTS SHALL BE MARKED OUT AND ANY ADJUSTMENT IN THEIR LOCATION, AS DIRECTED BY THE OWNER'S REPRESENTATIVE, SHALL BE MADE PRIOR TO THE COMMENCEMENT OF WORK.

3. ALL PATHWAYS AT DOORS SHALL BE CENTERED ON DOORS UNLESS OTHERWISE INDICATED.

4. EXPANSION JOINTS ARE TO BE LOCATED AT THE JUNCTION OF ALL CURBS, STEPS, WALLS AND PAVING ADJACENT TO A BUILDING.

5. EXPANSION JOINTS IN CONCRETE CURBS AND WALKS SHALL BE INSTALLED AS SHOWN ON DRAWINGS. EXPANSION JOINTS SHALL OCCUR NO MORE THAN 13 FEET ON CENTER IN CONCRETE CURBS AND 15 FEET ON CENTER IN CONCRETE WALKS.

6. ALL SCORING IN CONCRETE SHALL BE CLEAN, HAND-TOOLED ¼" DEEP X ¼" WIDE.

7. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.

8. VERIFICATION OF LAYOUT:
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PROJECT LAYOUT DIMENSIONS, SITE CONDITIONS, AND ELEVATIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE PLANS AND THE ACTUAL SITE CONDITIONS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY FOR RESOLUTION BEFORE PROCEEDING WITH CONSTRUCTION.

9. NO SURVEY PROVIDED:
A FORMAL SITE SURVEY WAS NOT PERFORMED FOR THIS PROJECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, PROPERTY BOUNDARIES, AND OTHER RELEVANT SITE FEATURES AS NECESSARY TO EXECUTE THE WORK.

GENERAL NOTES

WORK COVERED BY THIS SECTION INCLUDES FURNISHING OF AND PAYING FOR ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, OTHER ITEMS, AND APPLIANCES NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE DRAWING.

PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK AND PROVIDE FOR ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITY LINES (TELEPHONE, GAS, WATER, ELECTRICAL, CABLE, ETC.) PRIOR TO START OF ANY WORK.

CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING
THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES.

NO ATTEMPT HAS BEEN MADE BY PATCH LANDSCAPE ARCHITECTURE LLC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIP, SERVITUDES, EASEMENTS, RIGHT- OF - WAYS, OR OTHER BURDENS ON THE PROPERTY OTHER THAN THAT FURNISHED BY THE CLIENT AND/OR HIS REPRESENTATIVE. CONTRACTOR SHALL CONFIRM.

THE LOCATION OF PROPERTY LINES, SERVITUDES AND UTILITIES ARE APPROXIMATE AND WERE FURNISHED BY ORIGINAL SURVEYED INFORMATION. PATCH LANDSCAPE ARCHITECTURE LLC DOES NOT WARRANT THE EXACT LOCATION OF INFORMATION SHOWN. CONTRACTOR SHALL CONFIRM

FOR UNDERGROUND INFORMATION:
LOUISIANA ONE CALL 1 800 272 3020

BIORETENTION FACILITY NOTES

1. BIORETENTION FACILITIES INCLUDE BIOSWALES, RAIN GARDENS, BIOCELLS, INFILTRATION TRENCHES, AND OTHER FEATURES THAT MANAGE STORMWATER USING INFILTRATION TECHNIQUES, SOIL AMENDMENTS, AND/OR PLANT MATERIALS
2. PROTECTING THE BIORETENTION FACILITY DURING CONSTRUCTION FROM RUNOFF SEDIMENT IS OF THE UTMOST IMPORTANCE.
3. FAILURE TO INSTALL APPROPRIATE CONSTRUCTION SITE STORMWATER RUNOFF CONTROL MEASURES AT THE EDGES OF BIORETENTION FACILITIES SHALL RESULT IN RE-WORK AT THE CONTRACTOR'S EXPENSE.
4. STORMWATER CONTROL MEASURES MAY INCLUDE PERIMETER CONTROLS, CHECK DAMS, SLOPE PROTECTION, STORM DRAIN INLET PROTECTION, AND CONCRETE WASHOUT STRUCTURES.
5. ALL AGGREGATE MATERIALS USED IN BIORETENTION FACILITIES SHALL BE WASHED AND FREE OF DEBRIS, DUST, OR FINES.
6. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL SITE CONSTRUCTION BMP'S.

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

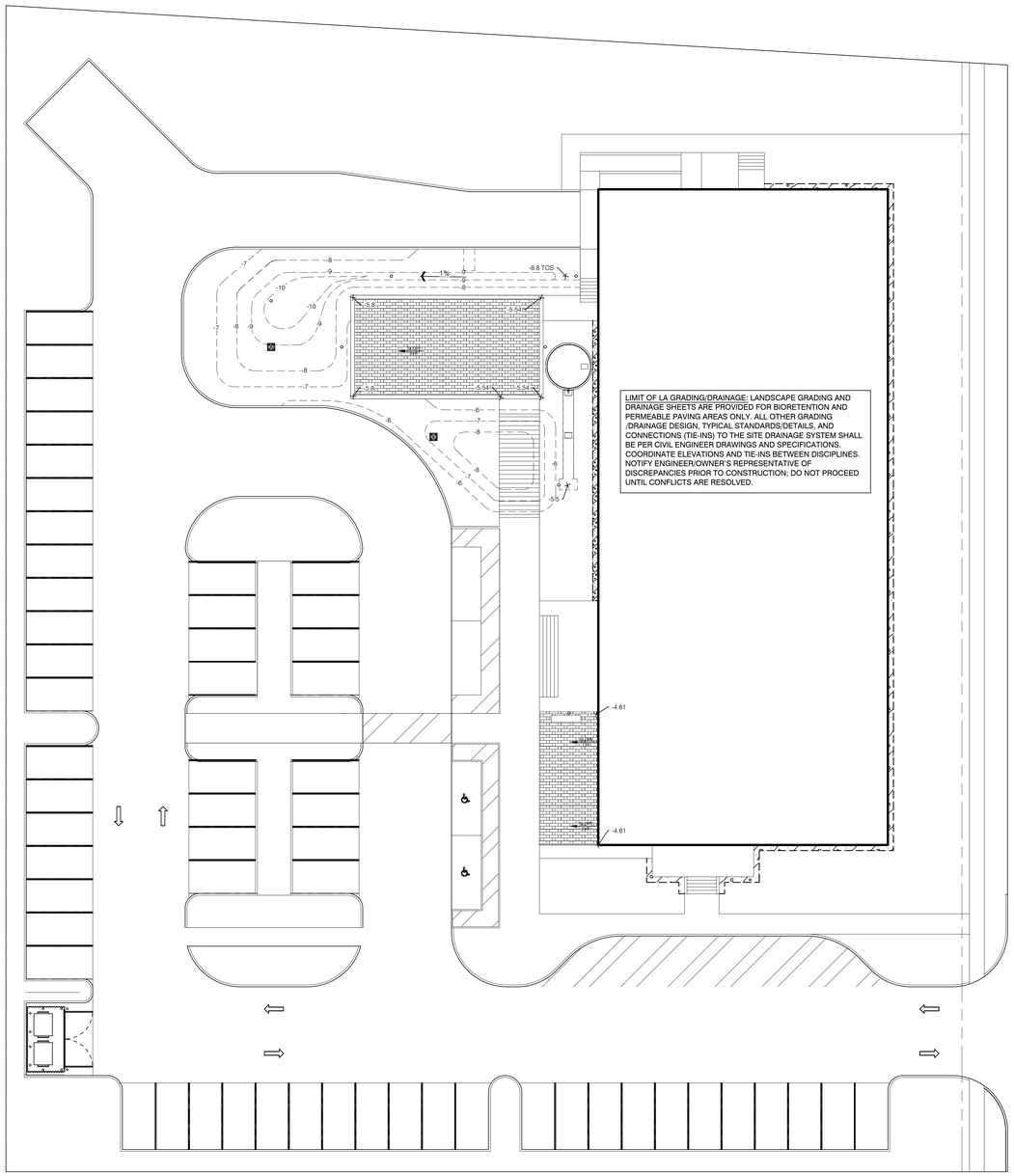
REVISIONS

STATE OF LOUISIANA
Reg. No. 0546
LICENSED
LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
MATERIALS & LAYOUT PLAN

SHEET NO. L201



A BIORETENTION AREA GRADING

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

SYMBOL LEGEND

2.39 PROPOSED FINISHED GRADE ELEVATION

TC	TOP OF CASTING ELEVATION
INV.	INVERT ELEVATION
FL. INV.	FLOW LINE INVERT ELEVATION
ELEV.	ELEVATION
G.B.	GRADE BREAK
DS	CONNECT TO ROOF DOWNSPOUT BOOT.

GRADING PLAN LEGEND

2.39 PROPOSED FINISHED GRADE ELEVATION

PROPOSED ELEVATION CONTOUR 1 FT INTERVAL

SLOPE SLOPE NEW PAVING UNIFORMLY

GENERAL GRADING & DRAINAGE NOTES

1. GENERAL GRADING REQUIREMENTS:
   - CONTRACTOR SHALL PERFORM ALL GRADING AS PER THE APPROVED GRADING AND DRAINAGE PLAN ON IN BOTH CIVIL AND LANDSCAPE ARCHITECTURE DRAWINGS.
   - ALL GRADING SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS, STRUCTURES, AND PAVED AREAS.
   - FINISHED GRADES SHALL PROVIDE SMOOTH TRANSITIONS BETWEEN CONTOURS, SLOPES, AND ADJACENT SURFACES.
   - NO GRADING CHANGES SHALL BE MADE WITHOUT APPROVAL FROM THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
2. MINIMUM SLOPES:
   - FINISHED GRADES FOR TURF AND LANDSCAPE AREAS SHALL BE SLOPED AT A MINIMUM OF 2.5% FOR DRAINAGE UNLESS OTHERWISE NOTED.
   - CONCRETE SURFACES (WALKWAYS, DRIVEWAYS, AND PATIOS) SHALL BE SLOPED A MINIMUM OF 1.5% (3/16" PER FOOT) TO ENSURE POSITIVE DRAINAGE.
   - EARTHEN SWALES SHALL HAVE A MINIMUM SLOPE OF 1.0% (1/8" PER FOOT) TO FACILITATE WATER FLOW.
   - ALL DRAINAGE PIPES SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 0.5% FOR PIPES 6" IN DIAMETER AND LARGER, OR AS SPECIFIED.
3. DRAINAGE SYSTEM:
   - ALL SURFACE WATER SHALL BE DIRECTED TO APPROVED DRAINAGE OUTLETS OR STORM SEWER SYSTEMS AS SHOWN ON THE PLAN.
   - ALL CATCH BASINS, DRAIN INLETS, AND AREA DRAINS SHALL BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND LOCATED PER THE PLAN TO ENSURE PROPER SITE DRAINAGE.
   - SUBSURFACE DRAINAGE PIPES SHALL BE HDPE, OR APPROVED EQUAL, SIZED AS PER THE PLANS, AND INSTALLED WITH PROPER BEDDING AND SLOPE.
   - CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES ARE FREE OF DEBRIS AND OBSTRUCTIONS PRIOR TO FINAL INSPECTION.
4. EROSION CONTROL:
   - CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION TO PREVENT SOIL EROSION AND SEDIMENT RUNOFF ONTO ADJACENT PROPERTIES AND PUBLIC STREETS.
   - PERMANENT EROSION CONTROL METHODS, SUCH AS GRASS, MULCH, OR OTHER GROUND COVERS, SHALL BE ESTABLISHED IMMEDIATELY AFTER GRADING IS COMPLETED.
5. COMPLIANCE AND PERMITS:
   - ALL GRADING AND DRAINAGE WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES.
   - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ENSURING THAT WORK IS COMPLETED IN COMPLIANCE WITH THE APPROVED PLANS AND JURISDICTIONAL REQUIREMENTS.
6. SITE INSPECTIONS AND ADJUSTMENTS:
   - THE CONTRACTOR SHALL COORDINATE WITH THE MOVEBR CONSTRUCTION MANAGER FOR SITE INSPECTIONS DURING CRITICAL STAGES OF GRADING AND DRAINAGE CONSTRUCTION.
   - ANY MODIFICATIONS TO THE GRADING PLAN SHALL BE SUBMITTED TO THE MOVEBR CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO IMPLEMENTATION.
7. EXISTING CONDITIONS:
   - CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF GRADING. ANY DISCREPANCIES WITH THE PLANS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT.
   - PROTECT ALL EXISTING UTILITIES AND STRUCTURES. ANY DAMAGES CAUSED DURING GRADING SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. FINISHED SURFACE AND RESTORATION:
   - ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL OR IMPROVED CONDITIONS AS INDICATED ON THE PLANS, WITH PROPER TOPSOIL, SEEDING, SODDING, OR PLANTING.
   - FINAL GRADE SURFACES SHALL BE SMOOTH AND FREE OF DEPRESSIONS, RUTS, OR IRREGULARITIES THAT COULD IMPEDE PROPER DRAINAGE.
9. STORMWATER MANAGEMENT:
   - STORMWATER MANAGEMENT FACILITIES (E.G., DETENTION/RETENTION PONDS, BIOSWALES) SHALL BE CONSTRUCTED AND STABILIZED AS PER THE PLANS, WITH PROPER OUTLET CONTROLS AND VEGETATIVE COVER.
   - ALL STORMWATER FACILITIES SHALL FOLLOW THE BATON ROUGE DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS.
   - CONTRACTOR SHALL ENSURE THAT ALL STORMWATER FACILITIES FUNCTION AS DESIGNED PRIOR TO FINAL PROJECT CLOSEOUT.

BIORETENTION FACILITY NOTES

1. BIORETENTION FACILITIES INCLUDE BIOSWALES, RAIN GARDENS, BIOCELLS, INFILTRATION TRENCHES, AND OTHER FEATURES THAT MANAGE STORMWATER USING INFILTRATION TECHNIQUES, SOIL AMENDMENTS, AND/OR PLANT MATERIALS
2. PROTECTING THE BIORETENTION FACILITY DURING CONSTRUCTION FROM RUNOFF SEDIMENT IS OF THE UTMOST IMPORTANCE.
3. FAILURE TO INSTALL APPROPRIATE CONSTRUCTION SITE STORMWATER RUNOFF CONTROL MEASURES AT THE EDGES OF BIORETENTION FACILITIES SHALL RESULT IN RE-WORK AT THE CONTRACTOR'S EXPENSE.
4. STORMWATER CONTROL MEASURES MAY INCLUDE PERIMETER CONTROLS, CHECK DAMS, SLOPE PROTECTION, STORM DRAIN INLET PROTECTION, AND CONCRETE WASHOUT STRUCTURES.
5. ALL AGGREGATE MATERIALS USED IN BIORETENTION FACILITIES SHALL BE WASHED AND FREE OF DEBRIS, DUST, OR FINES.
6. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL SITE CONSTRUCTION BMP'S.

patch LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

REVISIONS

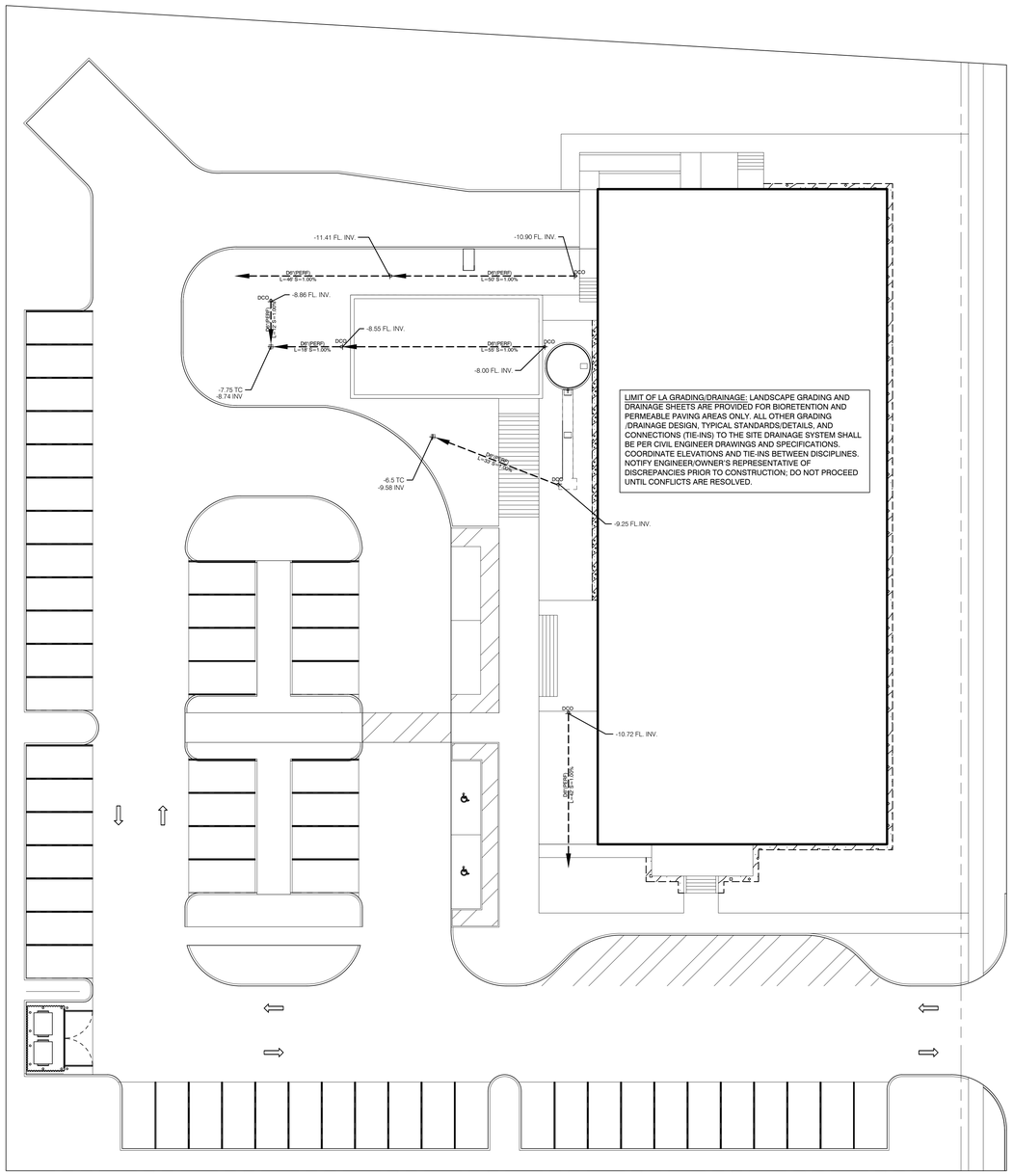
STATE OF LOUISIANA — KYLE WILLARD — 1765 — LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME

LANDSCAPE SUBSURFACE GRADING PLAN

SHEET NO. L301



A BIORETENTION AREA SUB DRAINAGE PLAN

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

SYMBOL LEGEND

2.39	PROPOSED FINISHED GRADE ELEVATION
TC	TOP OF CASTING ELEVATION
INV.	INVERT ELEVATION
FL. INV.	FLOW LINE INVERT ELEVATION
ELEV.	ELEVATION
G.B.	GRADE BREAK
DS	CONNECT TO ROOF DOWNSPOUT BOOT.

DRAINAGE PLAN LEGEND

D6" L=25' S=0.50%	NEW DRAIN, SIZE, LENGTH, SLOPE
⊠	NEW 24x24 DRAIN INLET (GRATE AND FRAME), SEE 2/C2.2
○DCO	NEW DRAIN CLEANOUT, SEE 5/C2.2
FL	FLOW LINE (PIPE INV EL AT SPECIFIED POINT)

GENERAL GRADING & DRAINAGE NOTES

1. GENERAL GRADING REQUIREMENTS:
   - CONTRACTOR SHALL PERFORM ALL GRADING AS PER THE APPROVED GRADING AND DRAINAGE PLAN ON IN BOTH CIVIL AND LANDSCAPE ARCHITECTURE DRAWINGS.
   - ALL GRADING SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS, STRUCTURES, AND PAVED AREAS.
   - FINISHED GRADES SHALL PROVIDE SMOOTH TRANSITIONS BETWEEN CONTOURS, SLOPES, AND ADJACENT SURFACES.
   - NO GRADING CHANGES SHALL BE MADE WITHOUT APPROVAL FROM THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
2. MINIMUM SLOPES:
   - FINISHED GRADES FOR TURF AND LANDSCAPE AREAS SHALL BE SLOPED AT A MINIMUM OF 2.5% FOR DRAINAGE UNLESS OTHERWISE NOTED.
   - CONCRETE SURFACES (WALKWAYS, DRIVEWAYS, AND PATIOS) SHALL BE SLOPED A MINIMUM OF 1.5% (3/16" PER FOOT) TO ENSURE POSITIVE DRAINAGE.
   - EARTHEN SWALES SHALL HAVE A MINIMUM SLOPE OF 1.0% (1/8" PER FOOT) TO FACILITATE WATER FLOW.
   - ALL DRAINAGE PIPES SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 0.5% FOR PIPES 6" IN DIAMETER AND LARGER, OR AS SPECIFIED.
3. DRAINAGE SYSTEM:
   - ALL SURFACE WATER SHALL BE DIRECTED TO APPROVED DRAINAGE OUTLETS OR STORM SEWER SYSTEMS AS SHOWN ON THE PLAN.
   - ALL CATCH BASINS, DRAIN INLETS, AND AREA DRAINS SHALL BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND LOCATED PER THE PLAN TO ENSURE PROPER SITE DRAINAGE.
   - SUBSURFACE DRAINAGE PIPES SHALL BE HDPE, OR APPROVED EQUAL, SIZED AS PER THE PLANS, AND INSTALLED WITH PROPER BEDDING AND SLOPE.
   - CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES ARE FREE OF DEBRIS AND OBSTRUCTIONS PRIOR TO FINAL INSPECTION.
4. EROSION CONTROL:
   - CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION TO PREVENT SOIL EROSION AND SEDIMENT RUNOFF ONTO ADJACENT PROPERTIES AND PUBLIC STREETS.
   - PERMANENT EROSION CONTROL METHODS, SUCH AS GRASS, MULCH, OR OTHER GROUND COVERS, SHALL BE ESTABLISHED IMMEDIATELY AFTER GRADING IS COMPLETED.
5. COMPLIANCE AND PERMITS:
   - ALL GRADING AND DRAINAGE WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES.
   - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ENSURING THAT WORK IS COMPLETED IN COMPLIANCE WITH THE APPROVED PLANS AND JURISDICTIONAL REQUIREMENTS.
6. SITE INSPECTIONS AND ADJUSTMENTS:
   - THE CONTRACTOR SHALL COORDINATE WITH THE MOVEBR CONSTRUCTION MANAGER FOR SITE INSPECTIONS DURING CRITICAL STAGES OF GRADING AND DRAINAGE CONSTRUCTION.
   - ANY MODIFICATIONS TO THE GRADING PLAN SHALL BE SUBMITTED TO THE MOVEBR CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO IMPLEMENTATION.
7. EXISTING CONDITIONS:
   - CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF GRADING. ANY DISCREPANCIES WITH THE PLANS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT.
   - PROTECT ALL EXISTING UTILITIES AND STRUCTURES. ANY DAMAGES CAUSED DURING GRADING SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. FINISHED SURFACE AND RESTORATION:
   - ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL OR IMPROVED CONDITIONS AS INDICATED ON THE PLANS, WITH PROPER TOPSOIL, SEEDING, SODDING, OR PLANTING.
   - FINAL GRADE SURFACES SHALL BE SMOOTH AND FREE OF DEPRESSIONS, RUTS, OR IRREGULARITIES THAT COULD IMPEDE PROPER DRAINAGE.
9. STORMWATER MANAGEMENT:
   - STORMWATER MANAGEMENT FACILITIES (E.G., DETENTION/RETENTION PONDS, BIOSWALES) SHALL BE CONSTRUCTED AND STABILIZED AS PER THE PLANS, WITH PROPER OUTLET CONTROLS AND VEGETATIVE COVER.
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patch LANDSCAPE ARCHITECTURE

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

REVISIONS

STATE OF LOUISIANA Reg No 0946 LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

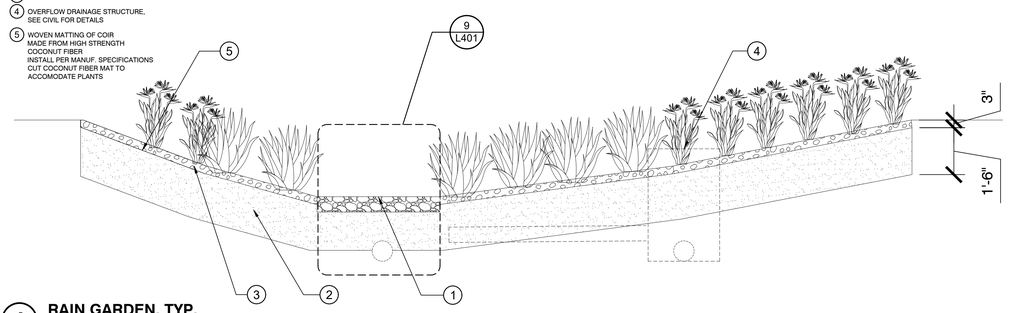
SHEET NAME

LANDSCAPE SUBSURFACE DRAINAGE PLAN

SHEET NO. L302

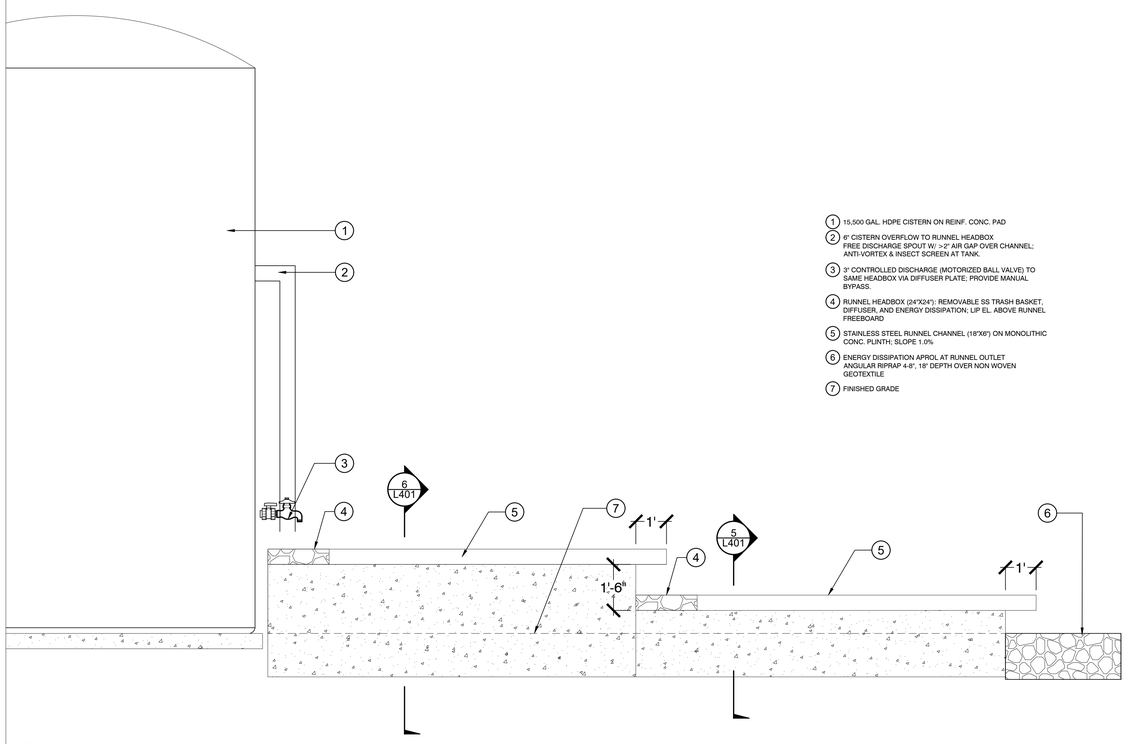
NOTE: SEE L301 AND L302 FOR ELEVATIONS AND SUBDRAIN LAYOUT.

1. LADOTD CLASS 30 RIPRAP, 4-8" ANGULAR STONE 12" DEEP, SET ON NONWOVEN GEOTEXTILE. SEE L201 FOR LAYOUT, EXACT BOUNDARIES STAKED FOR APPROVAL IN THE FIELD
2. BIOCELL PLANTING SOIL 60% SAND; 20% COMPOST; 10% ORGANIC; 10% TOPSOIL 12" MINIMUM DEPTH
3. 3" #57 AGGREGATE, CLEAN
4. OVERFLOW DRAINAGE STRUCTURE, SEE CIVIL FOR DETAILS
5. WOVEN MATTING OF COIR MADE FROM HIGH STRENGTH COCONUT FIBER INSTALL PER MANUF. SPECIFICATIONS CUT COCONUT FIBER MAT TO ACCOMODATE PLANTS



1 RAIN GARDEN, TYP.

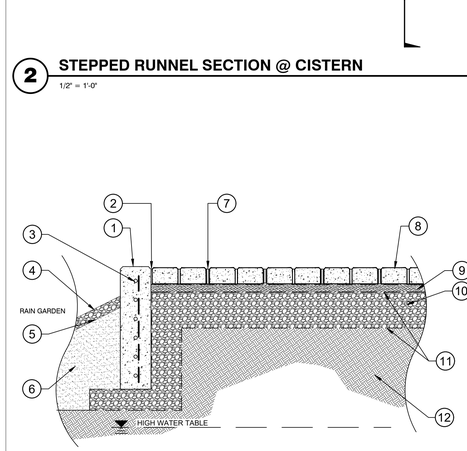
1/2" = 1'-0" P-ST-07



1. 15,500 GAL. HDPE CISTERN ON REINF. CONC. PAD
2. 6" CISTERN OVERFLOW TO RUNNEL HEADBOX FREE DISCHARGE SPOUT W/ >2" AIR GAP OVER CHANNEL; ANTI-VORTEX & INSECT SCREEN AT TANK.
3. 3" CONTROLLED DISCHARGE (MOTORIZED BALL VALVE) TO SAME HEADBOX VIA DIFFUSER PLATE; PROVIDE MANUAL BYPASS.
4. RUNNEL HEADBOX (24"X24"): REMOVABLE SS TRASH BASKET, DIFFUSER, AND ENERGY DISSIPATION; LIP EL. ABOVE RUNNEL FREEBOARD
5. STAINLESS STEEL RUNNEL CHANNEL (18"X6") ON MONOLITHIC CONC. PLINTH; SLOPE 1.0%
6. ENERGY DISSIPATION APROL AT RUNNEL OUTLET ANGULAR RIPRAP 4-8", 18" DEPTH OVER NON WOVEN GEOTEXTILE
7. FINISHED GRADE

2 STEPPED RUNNEL SECTION @ CISTERN

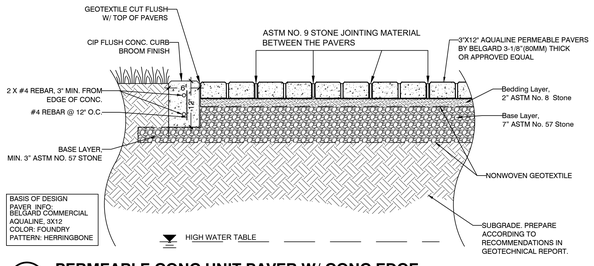
1/2" = 1'-0" P-ST-37



1. CIP Flush Conc Curb See Civil
2. GEOTEXTILE CUT FLUSH WITH TOP OF PAVERS
3. STEEL REINFORCING, SEE CIVIL
4. 3" NO. 57 LIMESTONE
5. WOVEN MATTING OF COIR MADE FROM HIGH STRENGTH COCONUT FIBER. INSTALL PER MANUFACTURER SPECIFICATIONS. CUT THROUGH COCONUT FIBER MAT TO ACCOMODATE PLANTS.
6. BIOSWALE PLANTING MIX (60% SAND, 20% COMPOST, 10% CLEAN TOPSOIL, 10% ORGANIC), 12" MIN.
7. NO. 9 STONE SWEPT BETWEEN PAVERS
8. 3"X12" AQUALINE PERMEABLE PAVERS BY BELGARD
9. BEDDING LAYER 2" NO. 8 LIMESTONE
10. 8" NO. 57 LIMESTONE
11. NONWOVEN GEOTEXTILE
12. SUBGRADE. PREPARE ACCORDING TO GEOTECHNICAL REPORT.

3 PERMEABLE CONC UNIT PAVER W/ FLUSH CONC EDGE

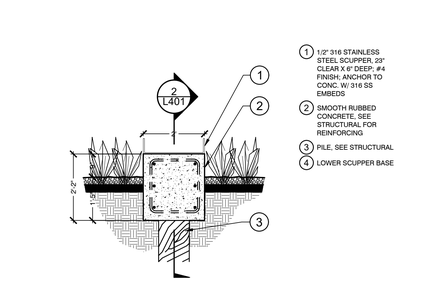
1" = 1'-0" P-ST-27



BASIS OF DESIGN PAVER INFO: BELGARD COMMERCIAL AQUALINE, 3X12 COLOR: FOUNDRY PATTERN: HERRINGBONE

4 PERMEABLE CONC UNIT PAVER W/ CONC EDGE

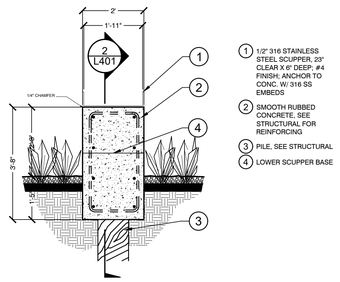
1" = 1'-0" P-ST-06



1. 1/2" 316 STAINLESS STEEL SCUPPER, 23" CLEAR X 6" DEEP; #4 FINISH; ANCHOR TO CONC. W/ 316 SS EMBEDS
2. SMOOTH RUBBED CONCRETE, SEE STRUCTURAL FOR REINFORCING
3. PILE, SEE STRUCTURAL
4. LOWER SCUPPER BASE

5 LOWER SCUPPER SECTION

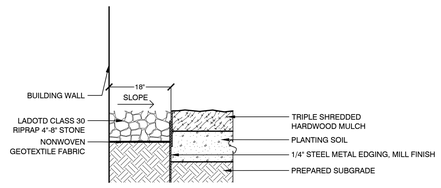
1/2" = 1'-0" P-ST-38



1. 1/2" 316 STAINLESS STEEL SCUPPER, 23" CLEAR X 6" DEEP; #4 FINISH; ANCHOR TO CONC. W/ 316 SS EMBEDS
2. SMOOTH RUBBED CONCRETE, SEE STRUCTURAL FOR REINFORCING
3. PILE, SEE STRUCTURAL
4. LOWER SCUPPER BASE

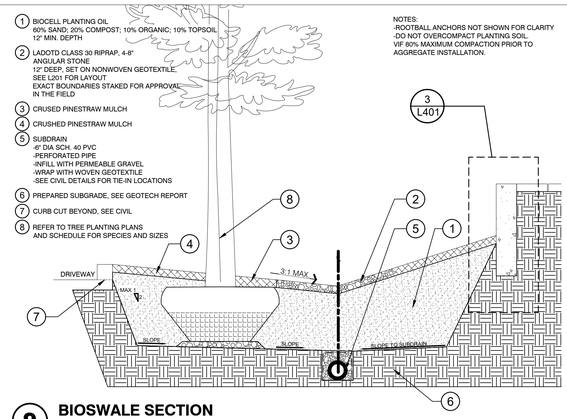
6 SS RUNNEL ON CONCRETE BASE

1/2" = 1'-0" P-ST-33



7 DECORATIVE STONE @ PLANTING AREA

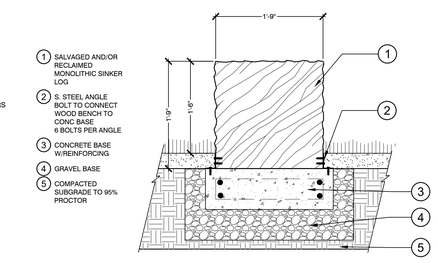
1" = 1'-0" P-ST-04



1. BIOCELL PLANTING OIL 60% SAND; 20% COMPOST; 10% ORGANIC; 10% TOPSOIL 12" MIN. DEPTH
2. LADOTD CLASS 30 RIPRAP, 4-8" ANGULAR STONE 12" DEEP, SET ON NONWOVEN GEOTEXTILE SEE L201 FOR LAYOUT EXACT BOUNDARIES STAKED FOR APPROVAL IN THE FIELD
3. CRUSED PINESTRAW MULCH
4. CRUSHED PINESTRAW MULCH
5. SUBDRAIN -6" DIA SCH. 40 PVC -PERFORATED PIPE -INFILL WITH PERMEABLE GRAVEL -WRAP WITH WOVEN GEOTEXTILE -SEE CIVIL DETAILS FOR TIE-IN LOCATIONS
6. PREPARED SUBGRADE, SEE GEOTECH REPORT
7. CURB CUT BEYOND, SEE CIVIL
8. REFER TO TREE PLANTING PLANS AND SCHEDULE FOR SPECIES AND SIZES

9 BIOSWALE SECTION

1/2" = 1'-0" P-ST-39



1. SALVAGED AND/OR RECLAIMED MONOLITHIC SINKER LOG
2. S. STEEL ANGLE BOLT TO CONNECT WOOD BENCH TO CONC BASE 6 BOLTS PER ANGLE
3. CONCRETE BASE W/REINFORCING
4. GRAVEL BASE
5. COMPACTED SUBGRADE TO 95% PROCTOR

8 RECLAIMED MONOLITHIC SINKER LOG BENCH

1" = 1'-0" P-ST-08

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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REVISIONS

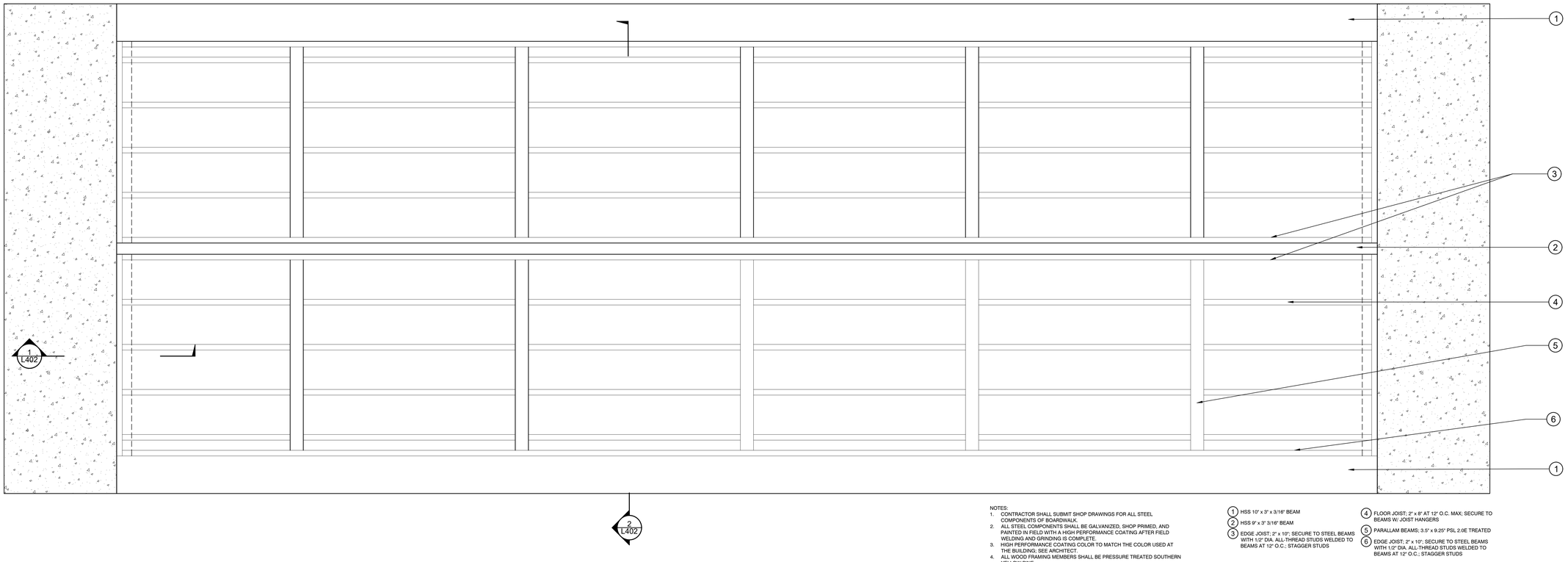
STATE OF LOUISIANA
Reg. No. 5546
LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME

SITE DETAILS

SHEET NO. L401



NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STEEL COMPONENTS OF BOARDWALK.
2. ALL STEEL COMPONENTS SHALL BE GALVANIZED, SHOP PRIMED, AND PAINTED IN FIELD WITH A HIGH PERFORMANCE COATING AFTER FIELD WELDING AND GRINDING IS COMPLETE.
3. HIGH PERFORMANCE COATING COLOR TO MATCH THE COLOR USED AT THE BUILDING; SEE ARCHITECT.
4. ALL WOOD FRAMING MEMBERS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.

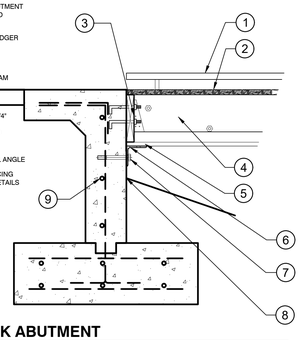
1. HSS 10" x 3" x 3/16" BEAM
2. HSS 9" x 3" 3/16" BEAM
3. EDGE JOIST; 2" x 10"; SECURE TO STEEL BEAMS WITH 1/2" DIA. ALL-THREAD STUDS WELDED TO BEAMS AT 12" O.C.; STAGGER STUDS
4. FLOOR JOIST; 2" x 8" AT 12" O.C. MAX; SECURE TO BEAMS W/ JOIST HANGERS
5. PARALLAM BEAMS; 3.5" x 9.25" PSL 2.0E TREATED
6. EDGE JOIST; 2" x 10"; SECURE TO STEEL BEAMS WITH 1/2" DIA. ALL-THREAD STUDS WELDED TO BEAMS AT 12" O.C.; STAGGER STUDS

3 BOARDWALK FRAMING PLAN

1" = 1'-0"

P-ST-36

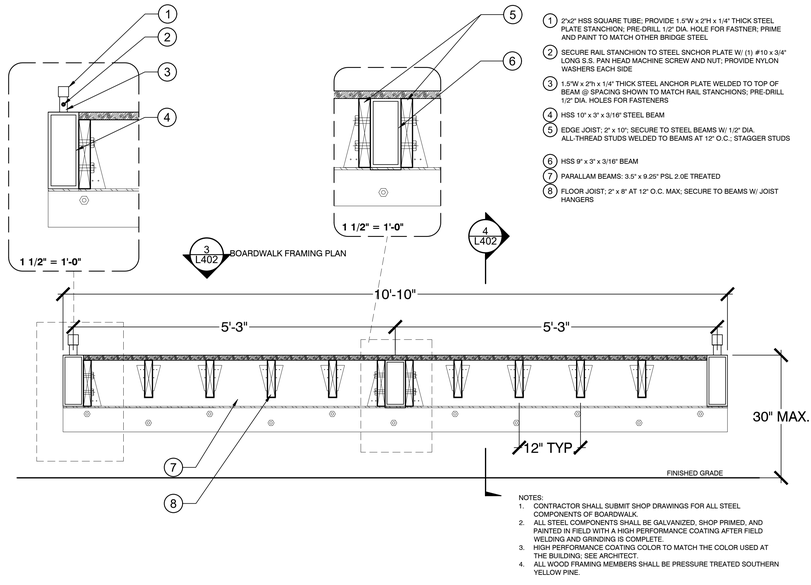
1. BOARDWALK CURB RAIL
2. 5/4" X 6" ACETYLATED WOOD DECKING W/PRECUT GROOVES FOR FASTENERS; SECURE TO NAILERS W/HIDDEN FASTENER SYSTEM
3. 2"X10" EDGE JOIST; SECURE TO ABUTMENT W/1/2"X6" AB AT 12" O.C. STAGGERED EMBED ANCHOR BOLT
4. 2"X8" FLOOR JOISTS; SECURE TO LEDGER W/GALVANIZED HANGERS
5. HSS 10"X3"X3/16" FRAME SET ON ANGLE, SECURED W/STEEL CLIPS WELDED ON ONE SIDE OF BEAM
6. 4"X4"X3/8" ANGLE; CONTINUOUS FOR WIDTH OF BOARDWALK
7. SECURE ANGLE TO ABUTMENT W/ 3/4" DIA. X5 1/2" LONG SS SIMPSON TITEN HD SCREW ANCHORS AT 6" O.C.
8. SET FINISHED GRADE BELOW STEEL ANGLE
9. CONCRETE ABUTMENT W/REINFORCING SEE CIVIL AND STRUCTURAL FOR DETAILS



1 BOARDWALK ABUTMENT

1" = 1'-0"

P-ST-01



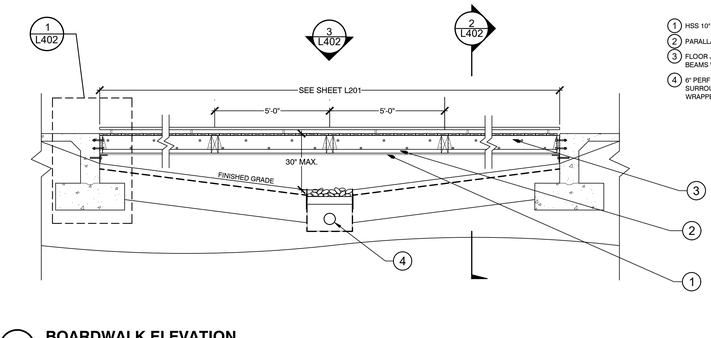
1. 2"x2" HSS SQUARE TUBE; PROVIDE 1.5"W x 2"H x 1/4" THICK STEEL PLATE STANCHION; PRE-DRILL 1/2" DIA. HOLE FOR FASTNER; PRIME AND PAINT TO MATCH OTHER BRIDGE STEEL
2. SECURE RAIL STANCHION TO STEEL SNCHOR PLATE W/ (1) #10 x 3/4" LONG S.S. PAN HEAD MACHINE SCREW AND NUT; PROVIDE NYLON WASHERS EACH SIDE
3. 1.5"W x 2"h x 1/4" THICK STEEL ANCHOR PLATE WELDED TO TOP OF BEAM @ SPACING SHOWN TO MATCH RAIL STANCHIONS; PRE-DRILL 1/2" DIA. HOLES FOR FASTENERS
4. HSS 10" x 3" x 3/16" STEEL BEAM
5. EDGE JOIST; 2" x 10"; SECURE TO STEEL BEAMS W/ 1/2" DIA. ALL-THREAD STUDS WELDED TO BEAMS AT 12" O.C.; STAGGER STUDS
6. HSS 9" x 3" x 3/16" BEAM
7. PARALLAM BEAMS: 3.5" x 9.25" PSL 2.0E TREATED
8. FLOOR JOIST; 2" x 8" AT 12" O.C. MAX; SECURE TO BEAMS W/ JOIST HANGERS

NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STEEL COMPONENTS OF BOARDWALK.
2. ALL STEEL COMPONENTS SHALL BE GALVANIZED, SHOP PRIMED, AND PAINTED IN FIELD WITH A HIGH PERFORMANCE COATING AFTER FIELD WELDING AND GRINDING IS COMPLETE.
3. HIGH PERFORMANCE COATING COLOR TO MATCH THE COLOR USED AT THE BUILDING; SEE ARCHITECT.
4. ALL WOOD FRAMING MEMBERS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.

2 BOARDWALK SECTION

1" = 1'-0"

P-ST-35



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2. PARALLAM BEAMS: 3.5" x 9.25" PSL 2.0E TREATED
3. FLOOR JOIST; 2" x 8" AT 12" O.C. MAX; SECURE TO BEAMS W/ JOIST HANGERS
4. 6" PERF PVC PIPE, SEE CIVIL SURROUND WITH WASHED #57 LIMESTONE WRAPPED IN NON-WOVEN GEOTEXTILE

NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STEEL COMPONENTS OF BOARDWALK.
2. ALL STEEL COMPONENTS SHALL BE GALVANIZED, SHOP PRIMED, AND PAINTED IN FIELD WITH A HIGH PERFORMANCE COATING AFTER FIELD WELDING AND GRINDING IS COMPLETE.
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4 BOARDWALK ELEVATION

3/8" = 1'-0"

P-ST-40

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

REVISIONS

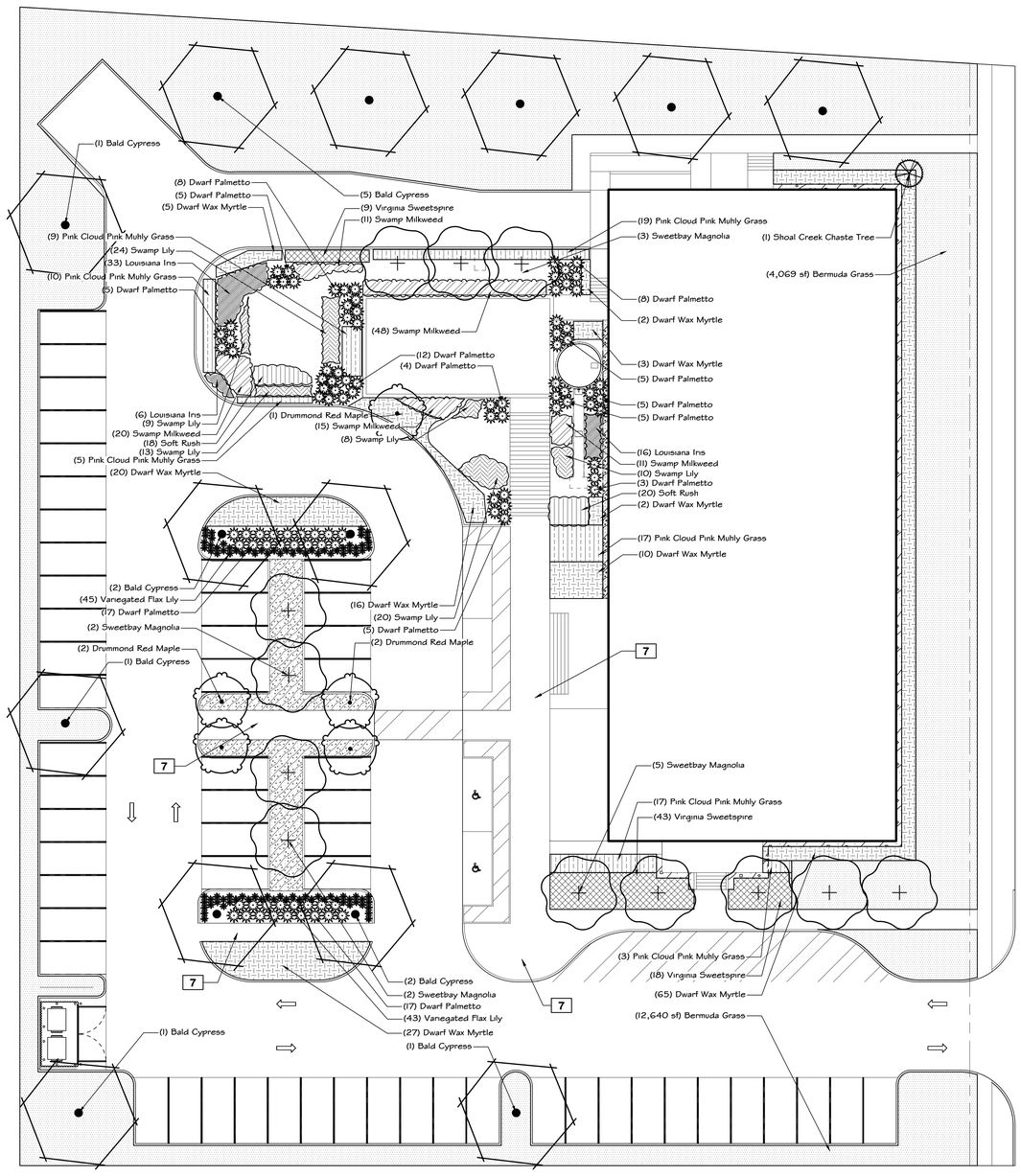
STATE OF LOUISIANA
Reg. No. 5946
LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME

BOARDWALK DETAILS

SHEET NO. L402



A PLANTING PLAN

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS
TREES						
	5	Acer rubrum drummondii	Drummond Red Maple	30 gal.	B&B	12' HT. MIN.
	12	Magnolia virginiana	Sweetbay Magnolia	30 gal.		Single Trunk
	13	Taxodium distichum	Bald Cypress	30 gal.		10'-12' height
	1	Vitex agnus-castus 'Shoal Creek'	Shoal Creek Chaste Tree	30 gal.		
SHRUBS						
	88	Dianella tasmanica 'Variegata'	Variegated Flax Lily	3 gal.		
	99	Sabal minor	Dwarf Palmetto	15 gal.		

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS
SHRUB AREAS							
	105	Asclepias incarnata	Swamp Milkweed	1 gal.	Plug	24" o.c.	
	84	Crinum americanum	Swamp Lily	1 gal.		24" o.c.	
	55	Iris louisiana	Louisiana Iris	1 gal.		24" o.c.	
	70	Itea virginica	Virginia Sweetspire	3 gal.		36" o.c.	
	38	Juncus effusus	Soft Rush	1 gal.		24" o.c.	
	80	Muhlenbergia capillaris 'Pink Cloud'	Pink Cloud Pink Muhly Grass	1 gal.		36" o.c.	
	150	Myrica pumila	Dwarf Wax Myrtle	7 gal.		48" o.c.	
GROUND COVERS							
	17,203 sf	Cynodon dactylon	Bermuda Grass	sod			

GENERAL LANDSCAPE NOTES

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS, INCLUDING PLANTING SOIL.
3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. PLANTS SHALL BE SPECIMEN QUALITY, FULL POT AND HEAD, SYMMETRICAL FOLIAGE AND BRANCHING STRUCTURE. SHRUBS SHALL BE FULL TO GROUND.
5. PLANT MATERIAL OF THE SAME SPECIES SHALL BE MATCHING IN CHARACTER AND SIZE, OBTAINED FROM THE SAME SOURCE.
6. ANY CHANGES IN PLANT MATERIAL, SIZE, QUANTITY, SPECIES OR VARIETY MUST BE APPROVED BY THE OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
7. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
8. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
9. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS, INCLUDING PLANTING SOIL.
11. CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM THICK TOPSOIL LAYER IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE AS A UNIFORM LAYER TO PRODUCE A SIX INCH (6") COMPACTED THICKNESS. TOPSOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED.
    - 50% SAND (BATCHER SAND IS PROHIBITED), 25% TOPSOIL, 25% COMPOST
12. USE TRIPLE SHREDDED HARDWOOD BARK MULCH TO A 4" DEPTH BEFORE COMPACTION IN ALL PLANTING AREAS. THOROUGHLY MIX WITH A PRE-EMERGENCE WEED KILLER
13. THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR OWNER.
14. ALL PLANTS SHALL BE INSTALLED AS PER DETAILS AND THE CONTRACT SPECIFICATIONS
15. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY, IF NECESSARY, DURING THE FIRST GROWING SEASON.
16. INSTALLATION MUST COMPLY WITH LANDSCAPE ORDINANCE.

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
	7	CONCRETE SIDEWALK, SEE CIVIL		
06 WOOD, PLASTICS AND COMPOSITES				
	06-15-01	PT WOOD DECK USE UC3B FOR DECKING, JOISTS, AND BEAMS 316 SS FASTENERS/HANGERS TREAT FIELD CUTS W/ COPPER NAPHTHENATE PROVIDE JOIST-TOP MEMBRANES	304 sf	1/L402
32 EXTERIOR IMPROVEMENTS				
	32-14-01	3x12 AQUALINE PERMEABLE PAVERS BY BELGARD	1,858 sf	/
AGGREGATE SURFACE				
	32-15-01	WASHED ANGULAR STONE, #3, 4" DEPTH	19.2 cy	7/L401
PLANTING ACCESSORIES				
	32-94-01	1/4" STEEL METAL EDGE, MILL FINISH	370 lf	7/L401

BIORETENTION FACILITY NOTES

1. BIORETENTION FACILITIES INCLUDE BIOSWALES, RAIN GARDENS, BIOCELLS, INFILTRATION TRENCHES, AND OTHER FEATURES THAT MANAGE STORMWATER USING INFILTRATION TECHNIQUES, SOIL AMENDMENTS, AND/OR PLANT MATERIALS
2. PROTECTING THE BIORETENTION FACILITY DURING CONSTRUCTION FROM RUNOFF SEDIMENT IS OF THE UTMOST IMPORTANCE.
3. FAILURE TO INSTALL APPROPRIATE CONSTRUCTION SITE STORMWATER RUNOFF CONTROL MEASURES AT THE EDGES OF BIORETENTION FACILITIES SHALL RESULT IN RE-WORK AT THE CONTRACTOR'S EXPENSE.
4. STORMWATER CONTROL MEASURES MAY INCLUDE PERIMETER CONTROLS, CHECK DAMS, SLOPE PROTECTION, STORM DRAIN INLET PROTECTION, AND CONCRETE WASHOUT STRUCTURES.
5. ALL AGGREGATE MATERIALS USED IN BIORETENTION FACILITIES SHALL BE WASHED AND FREE OF DEBRIS, DUST, OR FINES.
6. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL SITE CONSTRUCTION BMP'S.

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REVISIONS

1	10/28/2025	RFI 17

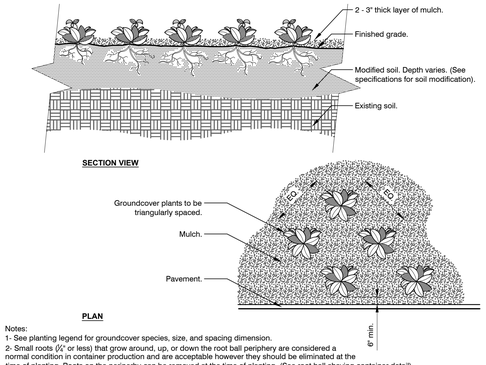
STATE OF LOUISIANA — BRETT PATCH — LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME

PLANTING PLAN

SHEET NO. L501



Notes:
1- See planting legend for groundcover species, size, and spacing dimension.
2- Small roots (½" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periperhy can be removed at the time of planting. (See root ball shaving container detail).
3- Settle soil around root ball of each groundcover prior to mulching.

1 GROUNDCOVER

3/4" = 1'-0"

URBAN TREE FOUNDATION © 2014
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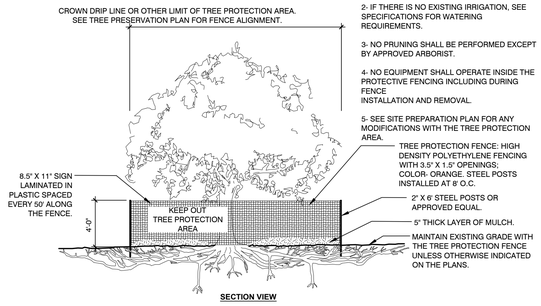


NOTES:
1- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.

2- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.

3- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.

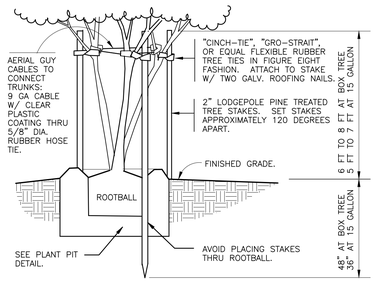
4- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE
INSTALLATION AND REMOVAL.

5- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

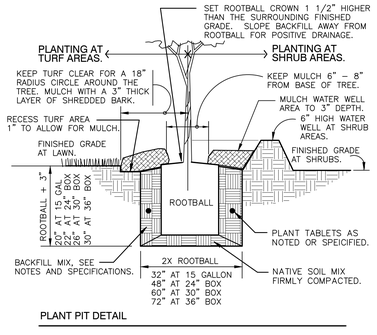
4 TREE PROTECTION

3/16" = 1'-0"

P-ST-09



STAKING DETAIL

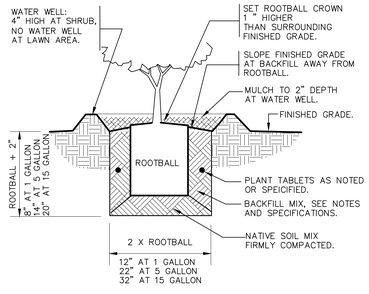


PLANT PIT DETAIL

2 TREE PLANTING MULTI-STAKE

1" = 1'-0"

P-ST-18



3 SHRUB PLANTING

1" = 1'-0"

P-NF-07

PLANTING SPECIFICATIONS:

1. SCOPE OF WORK
A. THE WORK SHALL CONSIST OF PERFORMING, CLEARING, AND SOIL PREPARATION, FINISH GRADING, PLANTING, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.

2. MATERIALS
A. GENERALLY - ALL MATERIALS SHALL BE BEST OF ITS KIND AVAILABLE.
B. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL-DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOUROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF ROOTBALL SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF ANSI Z60 "AMERICAN STANDARD FOR NURSERY STOCK AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
3. SUBSTITUTIONS
A. PRE-BID: IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO MAKE EVERY REASONABLE EFFORT TO FIND THE MATERIAL SPECIFIED BY THE DESIGNER. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR QUALIFYING HIS/HER PROPOSAL TO DOCUMENT ANY PLANT SUITABILITY OR AVAILABILITY PROBLEMS. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A LIST OF PROPOSED PLANT SUBSTITUTIONS IN THE BID RESPONSE FOR THE DESIGNER'S APPROVAL. THE CONTRACTOR SHALL SUBMIT A BASE BID AS PER PLAN PLUS PRICE CLARIFICATIONS FOR ALL RECOMMENDED SUBSTITUTIONS.

B. POST-BID: IF A SUBSTITUTE IS SELECTED, IT MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO AWARD OF CONTRACT. IT IS THE INTENT TO ELIMINATE POST-BID PLANT SUBSTITUTIONS. HOWEVER, IN THE EVENT THAT THE CONTRACT MATERIAL HAS BECOME UNAVAILABLE, AN APPROPRIATE SUBSTITUTION MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.

4. GENERAL WORK PROCEDURES
A. LANDSCAPE WORK SHALL BE ACCORDING TO THE WORKMANLIKE STANDARDS ESTABLISHED FOR LANDSCAPE CONSTRUCTION AND PLANTING
B. WHEN HAZARDOUS MATERIALS ARE KNOWN, ASSUMED, OR SUSPECTED TO EXIST AT THE SITE, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS DEEMED PRUDENT TO COMPLY WITH APPLICABLE LAWS AND REGULATIONS, AND TO REDUCE THE RISKS TO EMPLOYEES, PUBLIC HEALTH, SAFETY AND WELFARE AND THE ENVIRONMENT.

5. ALL PROTECTION AND PRESERVATION MEASURES FOR EXISTING TREES SHALL BE APPROVED BY AN ARBORIST IN-FIELD PRIOR TO COMMENCEMENT OF ANY SITE-DISTURBING ACTIVITY.

6. WEEDING
A. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

7. TOP SOILING
A. CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM THICK TOPSOIL LAYER IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE AS A UNIFORM LAYER TO PRODUCE A SIX INCH (6") COMPACTED THICKNESS. TOPSOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED.
B. TOPSOIL SHALL BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL BE UNIFORM IN COMPOSITION THROUGHOUT, WITH ADMIXTURE OF SUBSOIL. IT SHALL BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS, AND OTHER EXTRANEOUS MATERIAL. TOP SOIL BROUGHT IN SHOULD MATCH AS WELL AS POSSIBLE THE EXISTING SOIL TEXTURE AND PH.

8. SOIL CONDITIONING
A. CULTIVATE ALL AREAS TO BE PLANTED TO A DEPTH OF 8". ALL DEBRIS SUCH AS DRIFTWOOD, CONSTRUCTION DEBRIS, CONCRETE RUBBLE, RUBBISH, ETC. WITHIN THE LIMIT OF DISTURBANCE AND FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. PLANTING MIX SHALL BE SPREAD EVENLY IN ALL PLANTING AREAS AND TILLED IN TWO DIRECTIONS INTO TOP 2" WHEREVER POSSIBLE.

9.FERTILIZATION: SOIL TESTS SHALL BE TAKEN PRIOR TO BED PREPARATION TO DETERMINE ACTUAL SOIL AMENDMENTS AND FERTILIZATION. FOR BIDDING PURPOSES ONLY, ASSUME THE FOLLOWING:
A. SHRUBS AND TREES - ALL TREES AND SHRUBS SHALL BE FERTILIZED WITH "AGRIFORM" 20-15-5 PLANTING TABLETS AT TIME OF INSTALLATION AND PRIOR TO COMPLETION OF PIT BACKFILLING. TABLETS SHALL BE PLACED UNIFORMLY AROUND THE ROOT MASS AT A DEPTH THAT IS BETWEEN THE MIDDLE AND BOTTOM OF THE ROOT MASS.

APPLICATION RATE:

1 GALLON CAN: 1 - 21 GRAM TABLET
3 GALLON CAN: 2 - 21 GRAM TABLETS
5 GALLON CAN: 3 - 21 GRAM TABLETS
7 GALLON CAN: 4 - 21 GRAM TABLETS

TREES: 3 - 21 GRAM TABLETS EACH 1/2" OF CALIPER
PALMS: 7 - 21 GRAM TABLETS

B. GROUNDCOVER AREAS - ALL GROUNDCOVER AREAS SHALL RECEIVE FERTILIZATION WITH "OZMOCOTE" TIME RELEASE FERTILIZER OR APPROVED EQUAL AS PER MANUFACTURER'S SPECIFICATIONS.

10. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.

PLANTING SPECIFICATIONS CONT.:

11. FINISH GRADING
A. ALL AREAS WILL BE RECEIVED BY THE CONTRACTOR AT SUBSTANTIALLY PLUS/MINUS 0.1 OF FINISHED GRADE.
B. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY FROM BUILDING.
C. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATERS.

12. ALL PLANTS SHOWN ON THE APPROVED LANDSCAPE PLAN MUST BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR EQUAL UPON DELIVERY TO SITE.
PLANTS SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASON:

TYPE	DATES
PLANTS	3/15 TO 12/15
LAWNS	3/15 TO 6/15
	9/15 TO 12/1

ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE WRITTEN APPROVAL OF THE ENGINEER OR LANDSCAPE ARCHITECT, PRIOR TO PLANTING, FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTING SPECIFICALLY FOR SOIL STABILIZATION PURPOSES.

A. PLANTING SHALL NOT OCCUR IF THE GROUND IS FROZEN.
B. TUBERS, SPRIGS, BULBS AND RHIZOMES MUST BE TRANSPLANTED BEFORE NEW GROWTH EMERGES. THEREFORE, THEY ARE BEST PLANTED IN THE FALL AFTER DORMANCY, OR BEFORE DORMANCY BREAKS.
C. MOST OF THE SEDGES AND GRASSES ARE BEST PLANTED IMMEDIATELY AFTER DORMANCY BREAKS.
D. GROWING BAREROOT AND FIELD-COLLECTED PLUGS SHALL BE PLANTED DURING THE EARLY GROWING SEASON.

13. PLANTING
A. POSITION PLANTS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE BEFORE PLANTING, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
B. ALL PLANTS SHALL BE SET SO THAT THEY BEAR THE SAME RELATION TO THE REQUIRED GRADE AS THEY BORE TO THE NATURAL GRADE BEFORE BEING TRANSPLANTED.
C. WATER IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACK FILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED.

14. INSOFAR AS IT IS PRACTICAL, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE THE CONTRACTOR SHALL PROTECT THE STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED, UNLESS OWNER AND CONTRACTOR PROVIDE OTHERWISE BY WRITTEN AGREEMENT.

15. NEW PLANTING AREAS AND SOD SHALL BE ADEQUATELY IRRIGATED OR WATERED TO ESTABLISH THE PROPOSED PLANTS AND LAWN.

16. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENT SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.

17. MULCH: USE HARDWOOD MULCH TO A 3" DEPTH BEFORE COMPACTION IN ALL PLANTING AREAS. THOROUGHLY MIX WITH A PRE-EMERGENCE WEED KILLER

18. CLEANUP
A. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
B. ALL PLANTS AND PLANT BEDS SHALL BE MAINTAINED BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH UNTIL FINAL ACCEPTANCE.
C. LAWNS SHALL BE MAINTAINED BY WATERING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH SMOOTH ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

19. SUBMITTALS: SUBMIT THE FOLLOWING TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION:
A. METAL EDGING
B. TOPSOIL
C. MULCH
D. LIMESTONE
E. SOIL TEST RESULTS
F. RECOMMENDED SOIL AMENDMENTS
~~G. IRRIGATION SHOP DRAWINGS~~
~~H. IRRIGATION AS-BUILT DRAWING~~

PLANT COLOR LEGEND

SYMBOL	CODE	BOTANICAL / COMMON NAME	FLOWER	FLOWER ACCENTS	FRUIT	BARK	BARK ACCENTS	CONE	STEMS
TREES									
+	MS	Magnolia virginiana / Sweetbay Magnolia							
•	TD	Taxodium distichum / Bald Cypress							
	VIT SHO	Vitex agnus-castus 'Shoal Creek' / Shoal Creek Chaste Tree							
SHRUB AREAS									
	ASC INC	Asclepias incarnata / Swamp Milkweed							
	CRI AME	Crinum americanum / Swamp Lily							
	ITE VI2	Itea virginica / Virginia Sweetspire							
	JUN EF2	Juncus effusus / Soft Rush							
	MUH PI4	Muhlenbergia capillaris 'Pink Cloud' / Pink Cloud Pink Muhly Grass							

BLOOM SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	EARLY SPRING	MID SPRING	LATE SPRING	EARLY SUMMER	MID SUMMER	LATE SUMMER	EARLY FALL	MID FALL	LATE FALL	EARLY WINTER	MID WINTER	LATE WINTER
TREES														
•	ACE DMM	Acer rubrum drummondii / Drummond Red Maple												
+	MS	Magnolia virginiana / Sweetbay Magnolia												
•	TD	Taxodium distichum / Bald Cypress												
	VIT SHO	Vitex agnus-castus 'Shoal Creek' / Shoal Creek Chaste Tree												
SHRUBS														
	DV	Dianella tasmanica 'Variegata' / Variegated Flax Lily												
	JB	Juncus inflexus 'Blue Arrows' / Blue Arrows Juncus												
	SAB MIN	Sabal minor / Dwarf Palmetto												
SHRUB AREAS														
	ASC INC	Asclepias incarnata / Swamp Milkweed												
	CRI AME	Crinum americanum / Swamp Lily												
	IL	Iris louisiana / Louisiana Iris												
	ITE VI2	Itea virginica / Virginia Sweetspire												
	JUN EF2	Juncus effusus / Soft Rush												
	MUH PI4	Muhlenbergia capillaris 'Pink Cloud' / Pink Cloud Pink Muhly Grass												
	MYR DW2	Myrica pumila / Dwarf Wax Myrtle												
GROUND COVERS														
	CD	Cynodon dactylon / Bermuda Grass												

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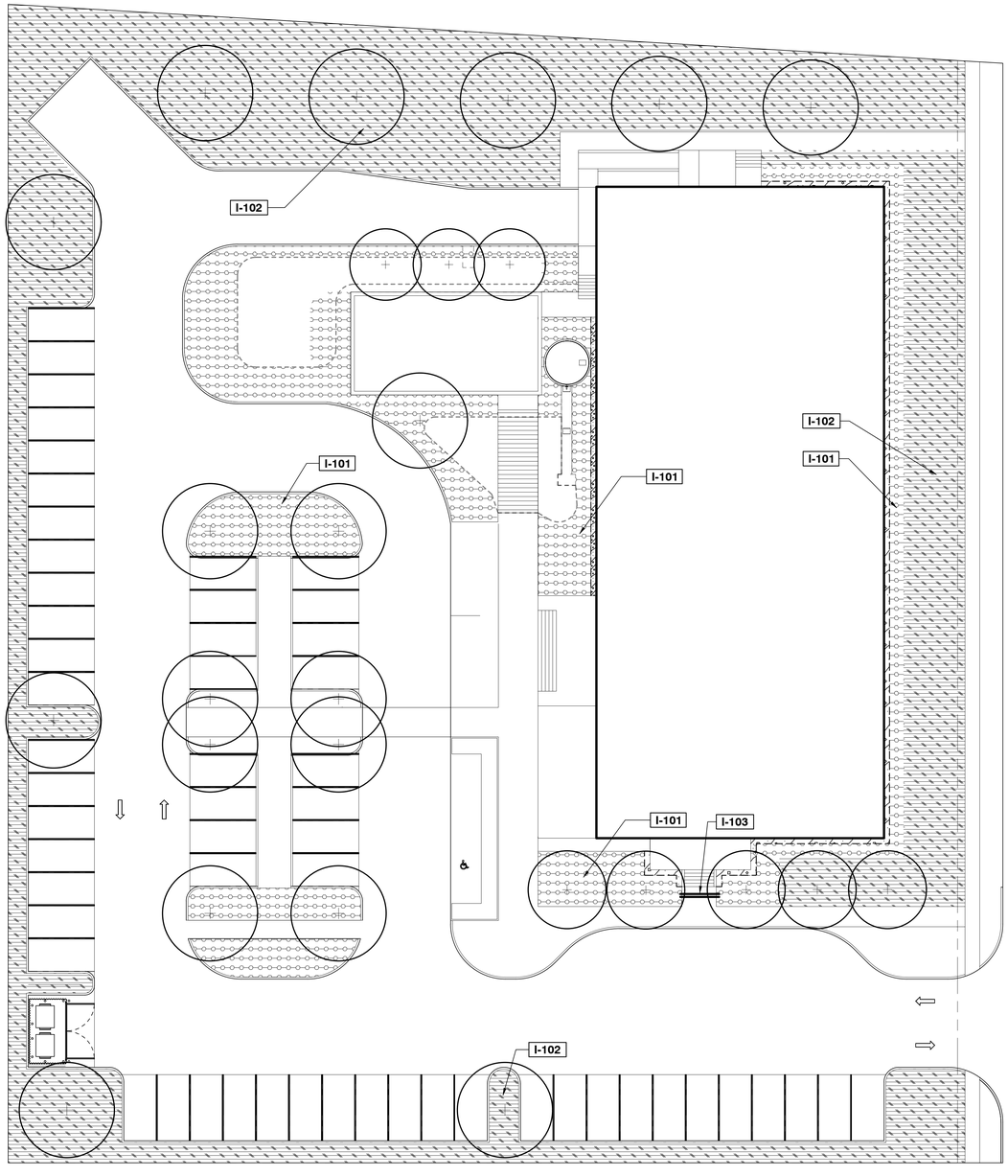
REVISIONS

STATE OF LOUISIANA — Brad Patch — Reg. No. 3542 — LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
PLANTING DETAILS AND SPECIFICATION

SHEET NO. L5.02



A IRRIGATION AREA PLAN
0 16 32 48 feet
SCALE: 1/16" = 1'-0"

NORTH

32 84 00 — PERFORMANCE IRRIGATION (CISTERN-FED, DESIGN–BUILD)
PART 1 — GENERAL

1.1 SUMMARY
A. Design, furnish, and install a complete automatic irrigation system per the Irrigation Area Plan (areas/irrigation types shown diagrammatically).
B. Water source: 8,000-gal vertical HDPE cistern (by 33 43 00). No permanent potable backup. Provide Emergency Hose-Fill with visible air gap.
C. Include: pump set and controls, filtration, mainline/laterals, control valves, heads/drip, controller, sensors, wiring, testing, commissioning, training, record docs.

1.2 DESIGN SUBMITTALS (FOR APPROVAL)
A. Shop Drawings (scale): mains/laterals, valves, heads/drip layout, controller, wire routing.
B. Hydraulics: zone gpm/psi, friction/velocities, pump duty point(s), most-remote station calc.
C. Product data: pump/VFD or pressure set, filters, master valve, flow sensor, controller, rain/freeze, zone valves, heads, dripline/emitters, PR devices.
D. Controls narrative: cistern priority, Low/Low-Low responses, flow-based leak shutoff, weather lockouts.
E. Emergency Hose-Fill detail: hose bib w/ vacuum breaker → funnel/strainer w/ ≥2" air gap, valve/labeling.

1.3 QA / WARRANTY
A. Installer: ≥3 comparable cistern-fed projects. Controls by mfr-trained tech.
B. Warranty: 1-year system labor & materials (pump/controller per mfr, ≥2-yr).

PART 2 — PERFORMANCE & MATERIALS

2.1 SOURCE, PUMPING, FILTRATION (PERFORMANCE)
A. Floating screened intake (≥80-mesh) with isolation valve/union.
B. Pumping to deliver 50 gpm @ 70 psi at most remote valve inlet (include PR/filter losses). Max velocity ≤5 ft/s mains, ≤7 ft/s laterals. Provide VFD or pressure switch + hydro tank to hold set pressure.
C. Filtration: ≥120-mesh disc/screen upstream of zones; gauges in/out; flush capability.
D. Protection/controls: Master valve + flow sensor with high-flow shutoff; rain and freeze (≤37 °F) sensors.

2.2 DISTRIBUTION & EFFICIENCY (PERFORMANCE)
A. Match area plan: rotors (large turf), sprays (small turf/geometry), drip (beds/rain-garden).
B. Pressure regulation: zone-level PR (valve or head) so devices operate in spec window.
C. Coverage/efficiency targets: DU_lq ≥0.70 rotors; ≥0.65 sprays; SC ≤1.7; head-to-head spacing; manage precip rate ≤0.75 in/hr on slopes via cycle/soak.
D. Drip zones: PC dripline 0.6–0.9 gph @ 12"/18" spacing; zone PRV 25–35 psi; auto/manual flush at ends; air/vac relief as needed.

2.3 TREES — LOCALIZED IRRIGATION (REQUIRED)
A. Provide permanent point-source at every new tree (including within sprinklered areas). No watering bags in sprinkler zones; bags allowed only where noted and only Year 1.
B. Performance: 10–15 gal per inch trunk caliper per week in Year 1 (split into 2–3 soakings/wk); slow application without runoff; trunk kept dry.
C. Acceptable systems (select per tree):

PR bubblers on stakes (≈30 psi): e.g., (2) × 0.5 gpm for 2–3" caliper (adjust to caliper).

Drip ring: 1–2 coils PC dripline (0.6–0.9 gph @ 12"/18"), initial radius 18–24", expand Year 2+.

Manifold + emitters: (4–8) PC emitters @ 2 gph on ring outside root ball.
D. Controls: Trees on separate stations where feasible; otherwise provide decoder/sub-station with local PR/filter and independent runtimes. ≥120-mesh filtration upstream of emitters. Provide flush ends and accessible tees for future outlets.

2.4 MATERIAL MINIMUMS
A. Mainline PVC DR-18 / Class 200 (solvent-weld), thrust restraint; laterals PVC Class 160/Sch 40 or HDPE SDR-11/13.5.
B. Remote control valves: electric, pressure-regulated/slow-close, stainless screens.
C. Heads: PRS rotor/spray bodies with check valves where sloped.
D. Valve boxes: polymer/composite, lockable lids, sized for service.
E. Emergency Hose-Fill: ¾" hose bib w/ vacuum breaker to stainless funnel/strainer ≥2" air gap at cistern/headbox; labeled "TEMPORARY FILL ONLY — NO CROSS-CONNECTION."

Basis of Design: Rain Bird ESP-LXME2 or ESP-LXD w/ Flow Manager/Flow Learn; FS-Series flow sensor; PESB-R valves; 5000 Plus PRS-SAM rotors; 1800-PRS30/40 sprays; XF/XFS dripline; DF-Series filter; WR2 rain/freeze.

PART 3 — EXECUTION

3.1 INSTALLATION
A. Install per accepted Shop Drawings. Provide upstream & downstream isolation at serviceable components (pump, filters, master valve). Unions at removables.
B. Trenching/backfill to code; sand bedding; solvent-welds per ASTM; pressure test; thrust blocks/restraints at directional changes.
C. Set valve boxes flush; gravel base; slack in wires; labeled lids.
D. Drip: flush lines before capping; PRV/filters accessible; auto-flush or manual ends.

3.2 CONTROLS & PROGRAMMING
A. Source priority: cistern only; Low tank alarm (reduce schedules), Low-Low lockout (manual reset after refill).
B. Enable master valve + flow sensor leak shutoff; set high-flow thresholds via flow-learn.
C. Enable rain/freeze lockouts; use cycle/soak to prevent runoff.
D. Trees: program runtimes to meet weekly gallons target; provide Year-2 dial-back and add-outlet plan.

3.3 COMMISSIONING & CLOSEOUT
A. Hydrostatic test mains/laterals; flush all zones.
B. Demonstrate pump meets duty point(s) at test gauge; verify PR across zones.
C. Calibrate flow sensor; prove master-valve interlock.
D. Coverage test & adjustments; drip/bubbler flow verification at representative trees.
E. Deliver: as-builts (PDF+CAD), zone map at controller, controller program export, O&M manuals, pump curves; owner training.

IRRIGATION SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY
	I-101	DRIP IRRIGATION AREA	6,213 sf
	I-102	SPRINKLER IRRIGATION AREA	16,805 sf

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

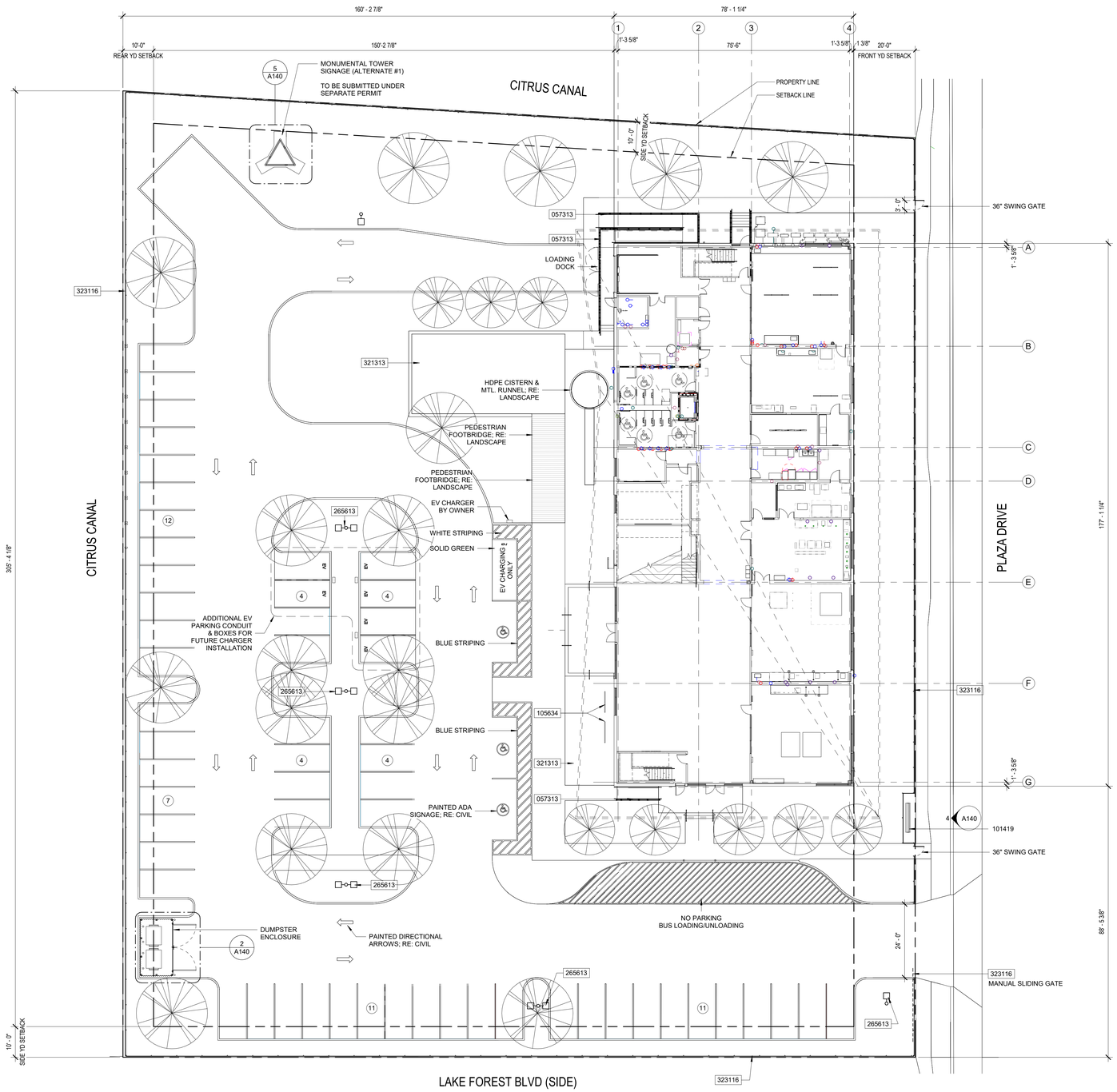
REVISIONS

STATE OF LOUISIANA — Reg. No. 0940 — LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
IRRIGATION AREA PLAN

SHEET NO. L6.01



1 A100 SITE PLAN

1/16" = 1'-0"

PROJECT ADDRESS
STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

ZONING CLASSIFICATION
NEW ORLEANS COMPREHENSIVE ZONING ORDINANCE
C-3 HEAVY COMMERCIAL

FUTURE LAND USE
GC – GENERAL COMMERCIAL

BULK AND YARD REGULATIONS
MAXIMUM BUILDING HEIGHT
ALLOWED: 130 & NO MORE THAN 12 FLOORS
PROPOSED: 36' 9" & 2 FLOORS
MINIMUM LOT AREA
REQUIRED: 5,000 SF
PROPOSED: 79,520 SF
MINIMUM PERMEABLE OPEN SPACE
REQUIRED: 20% OF LOT AREA (15904 SF)
PROPOSED: 38,372 SF (48.3%)
FRONT YARD: 20'
INTERIOR SIDE YARD: 10'
BACK YARD: 10'

OFF-STREET VEHICLE & BICYCLE PARKING REQUIREMENTS
MIN. VEHICLE SPACES
REQUIRED: OFFICE: 1 PER 500 SF GFA
= 26,125 / 500
= 52 SPACES
PROPOSED: 61 SPACES
MIN. SHORT-TERM BICYCLE SPACES
REQUIRED: 1 PER 5,000 GFA = 6 SPACES
PROPOSED: 10 SPACES

ELECTRIC VEHICLE CHARGING STATION REQUIREMENTS
PERCENTAGE OF SPACES WITH LEVEL 2 OR LEVEL 3 INSTALLED
REQUIRED: 10% OR 1 SPACE, WHICHEVER IS GREATER
= 52 SPACES x 10%
= 6 SPACES
PROVIDED: 1 SPACE
PERCENTAGE OF SPACES THAT ARE EV CHARGING READY
REQUIRED: 10% OR 1 SPACE, WHICHEVER IS GREATER
= 52 SPACES x 10%
= 6 SPACES
PROVIDED: 6 SPACES

REQUIRED OFF-STREET LOADING SPACES
REQUIRED: 10,000 - 100,000 GFA = 1 SPACE
PROVIDED: 1 SPACE

STORMWATER MANAGEMENT
SEE ATTACHED STORMWATER CALCULATOR BY CIVIL ENGINEER

LANDSCAPE PLANS
SEE ATTACHED LANDSCAPE DRAWINGS

SIGNAGE REQUIREMENTS
FREESTANDING SIGNS
REQUIRED:
MAX. AREA: 44 SF
PERMITTED HEIGHT: 6 FT
PROVIDED: TBD

POLE SIGNS
REQUIRED:
MAX. AREA: 32 SF
PERMITTED HEIGHT: 20 FT
PROVIDED: TBD

BILLBOARDS
1 BILLBOARD EVERY 1,000 LINEAR FT ON EITHER ONE SIDE OF THE ROADWAY OR THE OTHER, BUT NOT BOTH SIDES
MAX AREA: 672 SF OF ADVERTISING SURFACE ON ONE SIDE
PERMITTED HEIGHT: 25 FT
PROVIDED: TBD

GENERAL NOTES

1. VERIFY ALL DIMENSIONS IN FIELD. NOTIFY ARCHITECT OF ANY CONFLICTS WITH EXISTING CONDITIONS OR INTENT IMMEDIATELY UPON DISCOVERY.
2. REFER TO CIVIL, LANDSCAPE & MEP DRAWINGS FOR FULL SCOPE OF SITEWORK, INCLUDING DEMOLITION.

SHEET NOTES

057313	DECORATIVE METAL RAILINGS EXTERIOR
101419	DIMENSIONAL LETTER SIGNAGE
105634	BICYCLE STORAGE RACKS
265613	LIGHTING POLES AND STANDARDS
321313	RIGID PAVEMENT
323116	WELDED WIRE FENCES AND GATES

LEGEND

PROPERTY LINE

SETBACK LINE

(X) PARKING COUNT

WILLARD DESIGN GROUP
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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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PERMIT SET

DRAWING ISSUE

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09/08/2025	50% DESIGN DEVELOPMENT
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01/19/2026	PERMIT SET

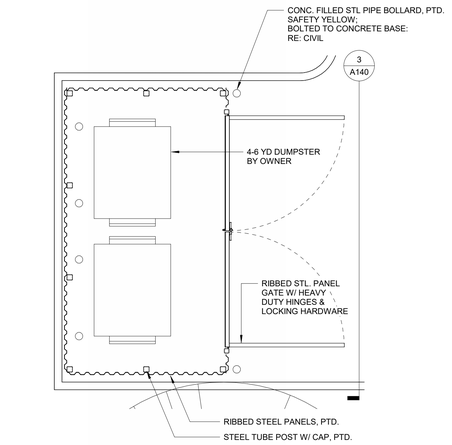
REVISIONS

DOMINIC A. WILLARD, JR. REG. No. 38813 STATE OF LOUISIANA LICENSED ARCHITECT

WDG Project No: 2024002

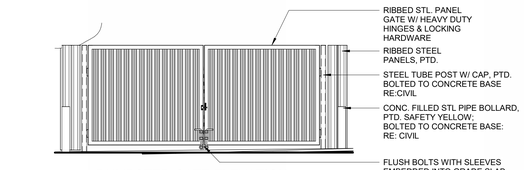
SHEET NAME
SITE PLAN

SHEET NO. A100



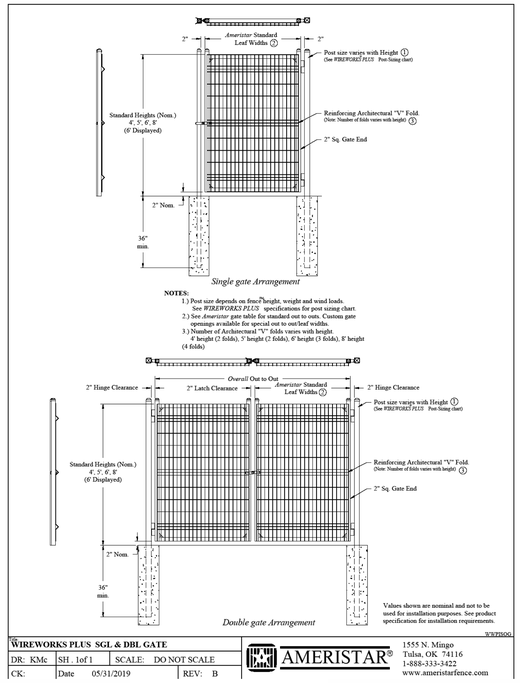
2 A100 A140 ENLARGED PLAN @ DUMPSTER ENCLOSURE

1/4" = 1'-0"



3 A140 A140 DUMPSTER GATE ELEVATION

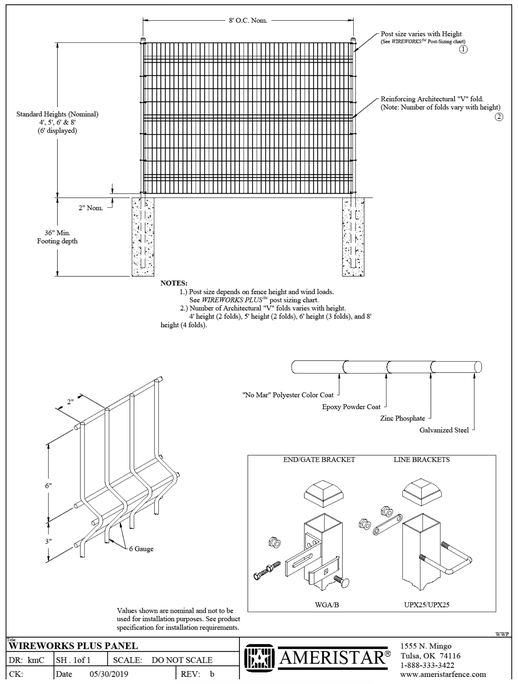
1/4" = 1'-0"



WIREWORKS PLUS SGL & DBL GATE

DR: KMc	SH . 1of 1	SCALE: DO NOT SCALE	
CK:	Date 05/31/2019		REV: B

AMERISTAR® 1555 N. Mingo Tulsa, OK 74116 1-888-333-3422 www.ameristarfence.com



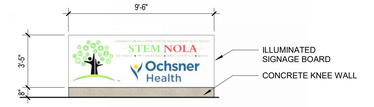
WIREWORKS PLUS PANEL

DR: kmC	SH . 1of 1	SCALE: DO NOT SCALE	
CK:	Date 05/30/2019		REV: b

AMERISTAR® 1555 N. Mingo Tulsa, OK 74116 1-888-333-3422 www.ameristarfence.com

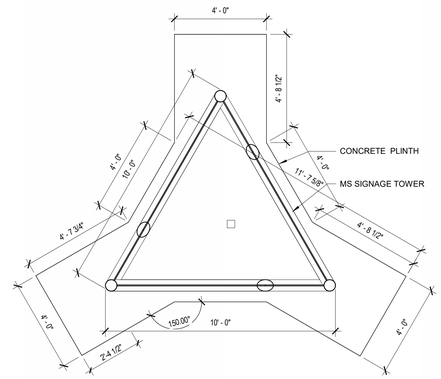
1 A140 SITE FENCING DETAILS

NTS



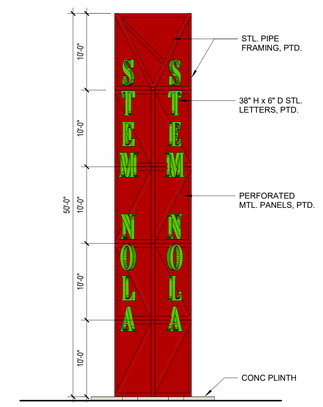
4 A100 A140 MONUMENT SIGN

1/4" = 1'-0"



5 A100 A140 SIGNAGE TOWER-PLAN

3/8" = 1'-0"



SIGNAGE TOWER

6 A140 SIGNAGE TOWER ELEVATION

1/8" = 1'-0"

ALL SIGNAGE SHOWN FOR PRICING PURPOSES ONLY & WILL BE PERMITTED SEPARATELY ONCE FINALIZED

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

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12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

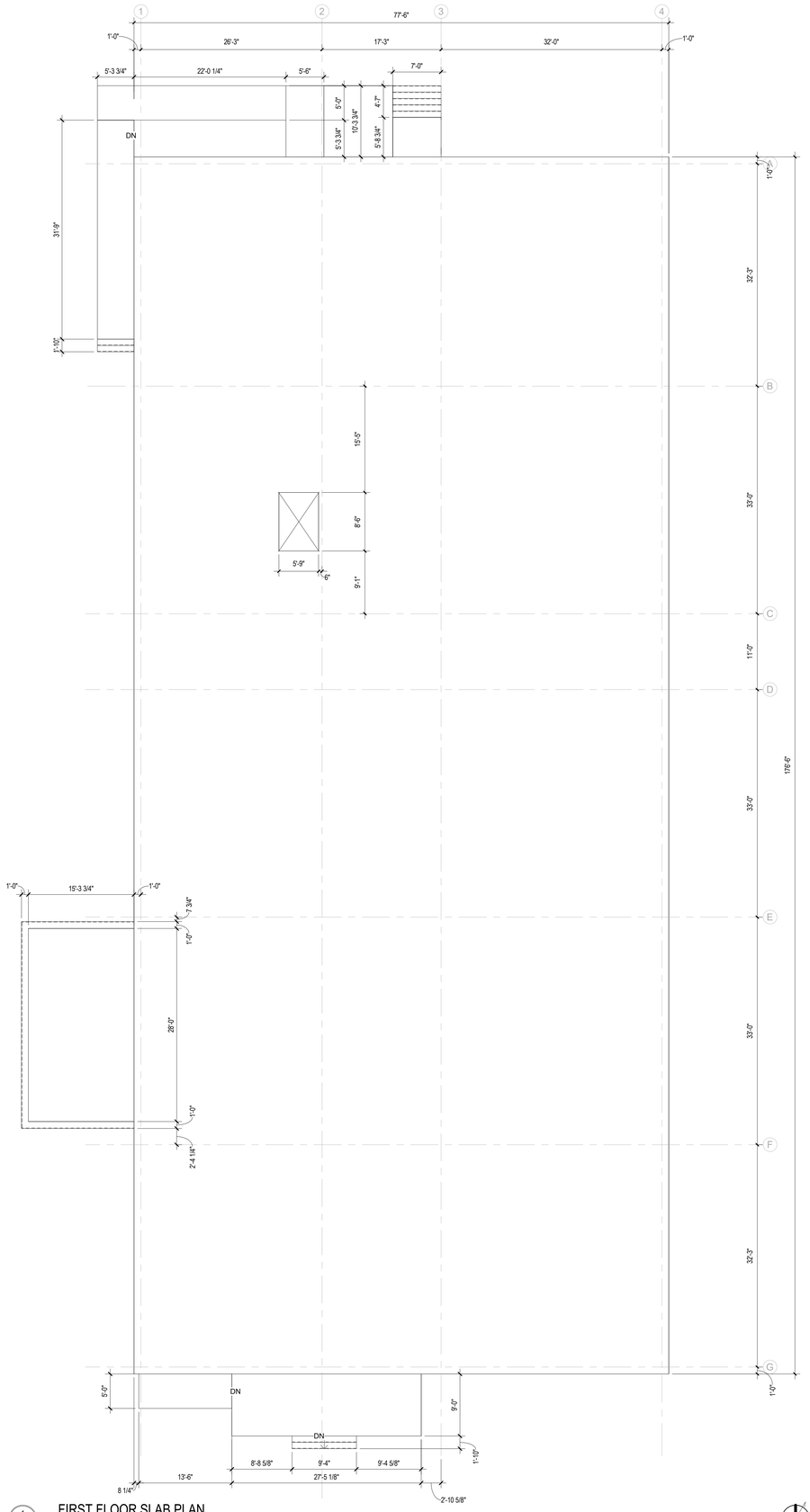
DOMINIC A. WILLARD, III. REG. No. 36780 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

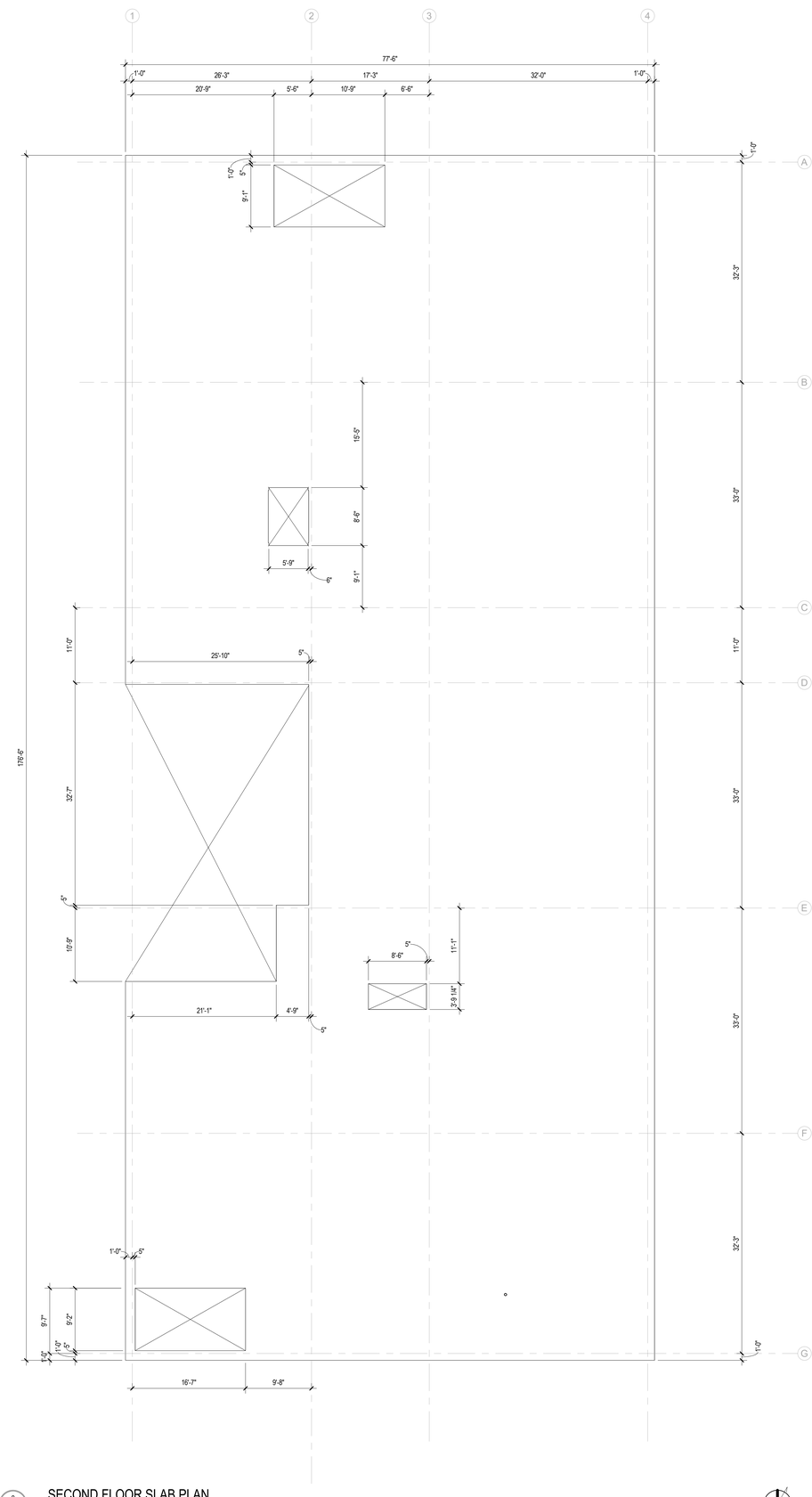
SITE DETAILS

SHEET NO. A140



1 A201 FIRST FLOOR SLAB PLAN

1/8" = 1'-0"



2 A201 SECOND FLOOR SLAB PLAN

1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. COORDINATE FOUNDATION W/ STRUCT. DWGS.
2. COORDINATE STAIR & RAMP RISE/RUN WITH CIVIL T.O. GRADE ELEVATIONS

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD JR. REG. No. 7539 STATE OF LOUISIANA REGISTERED ARCHITECT

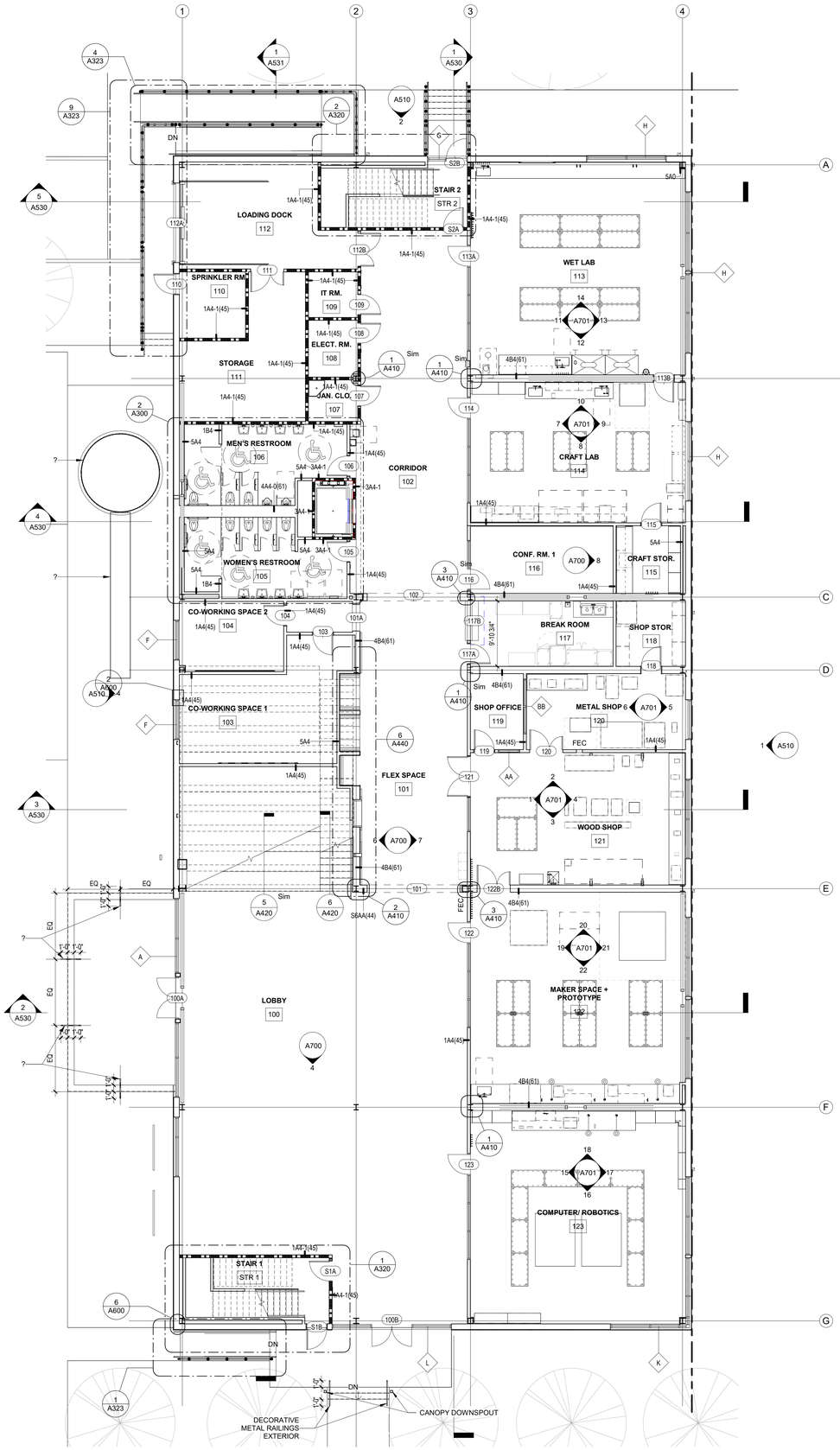
WDG Project No: 2024002

SHEET NAME

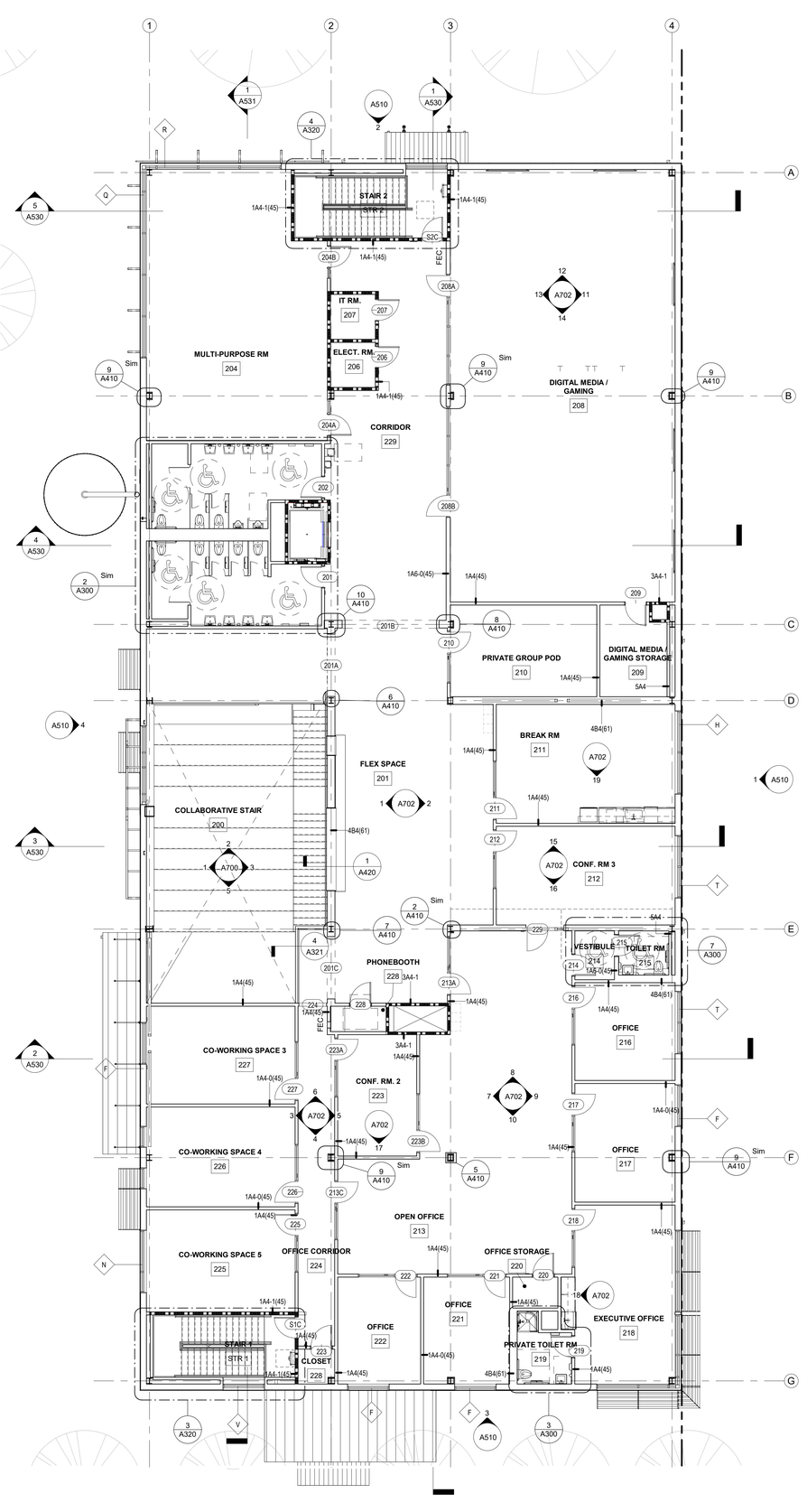
FIRST AND SECOND FLOOR SLAB PLANS

SHEET NO.

A201



1 A211 FIRST FLOOR PLAN
1/8" = 1'-0"



2 A211 SECOND FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO LAB PLANNER DRAWINGS FOR ALL SPECIALTY EQUIPMENT AND CASEWORK IN LABORATORIES.
2. CONTRACTOR TO PROVIDE WALL-MOUNTED MARKER BOARDS, SEE INTERIOR ELEVATIONS.
3. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
4. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
5. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
6. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

SHEET NOTES

05-512	
057313	DECORATIVE METAL RAILINGS EXTERIOR
130002	
130003	

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

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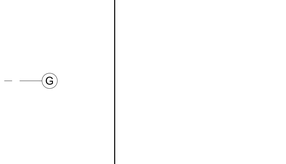
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025



WDG Project No: 2024002

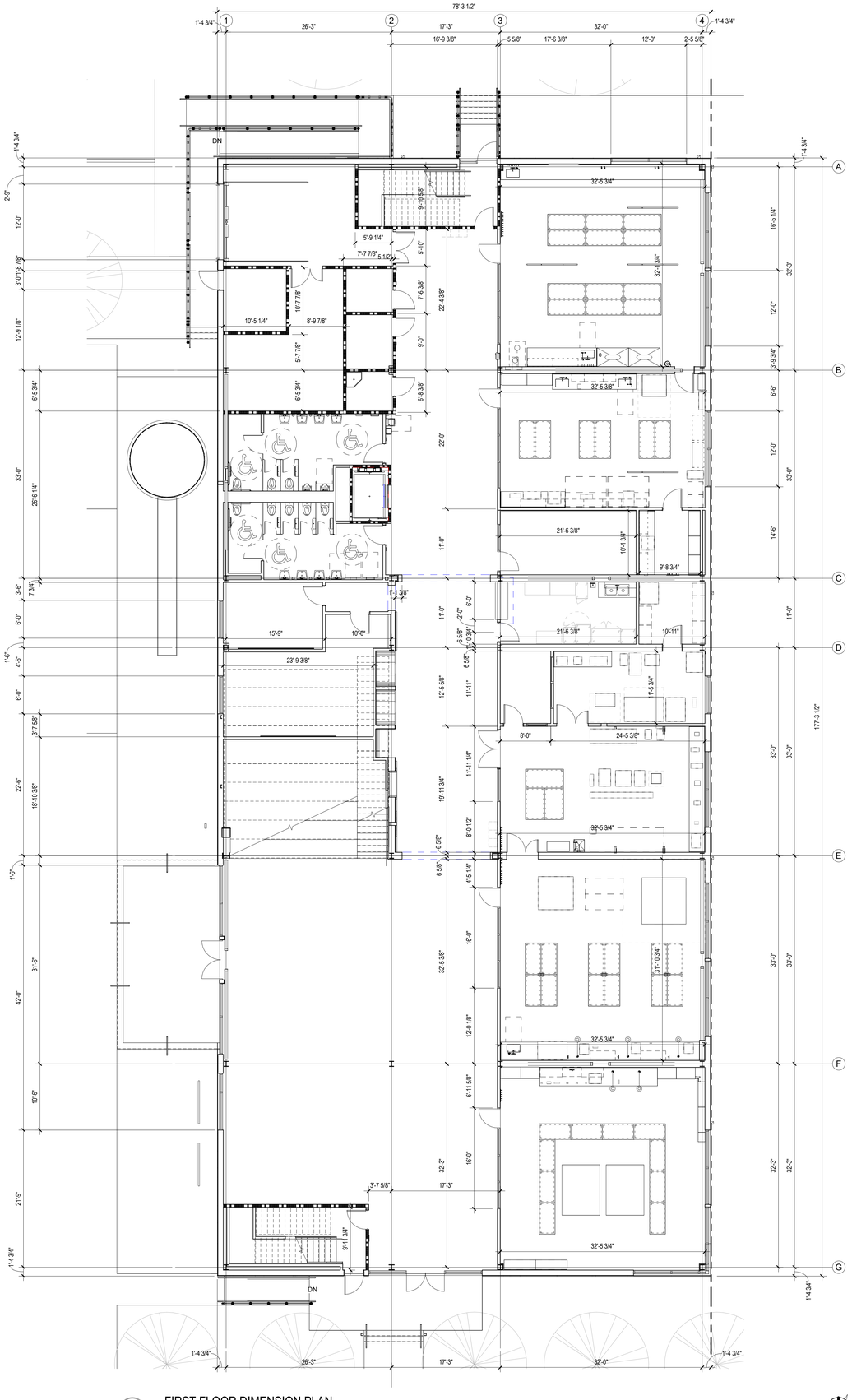
SHEET NAME

FIRST AND SECOND FLOOR PLANS

SHEET NO.

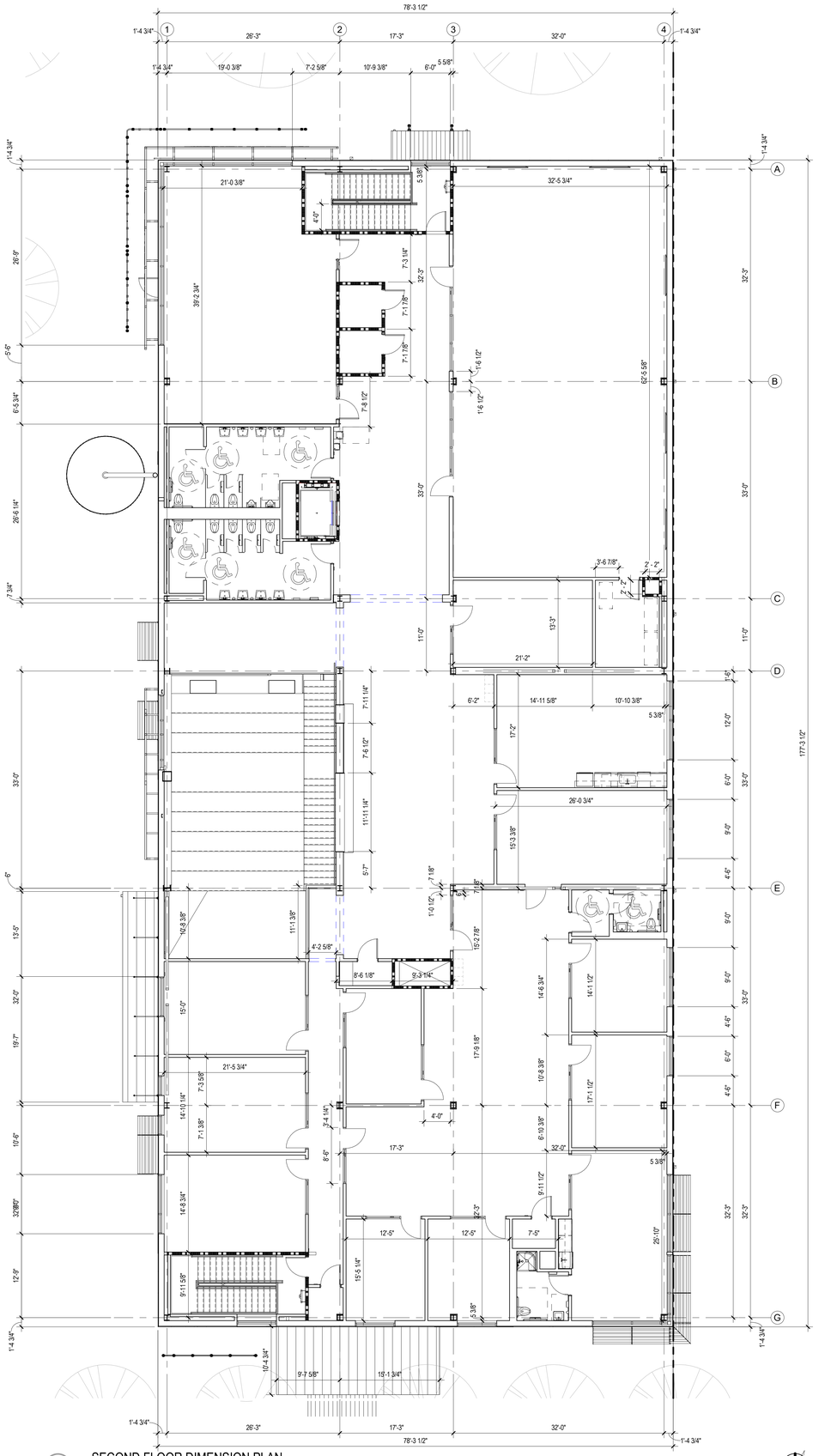
A211

studio kiro



FIRST FLOOR DIMENSION PLAN

A212 1/8" = 1'-0"



SECOND FLOOR DIMENSION PLAN

2 A212 1/8" = 1'-0"

GENERAL NOTES

1. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
2. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
3. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
4. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD III REG. No. 7529 STATE OF LOUISIANA REGISTERED ARCHITECT

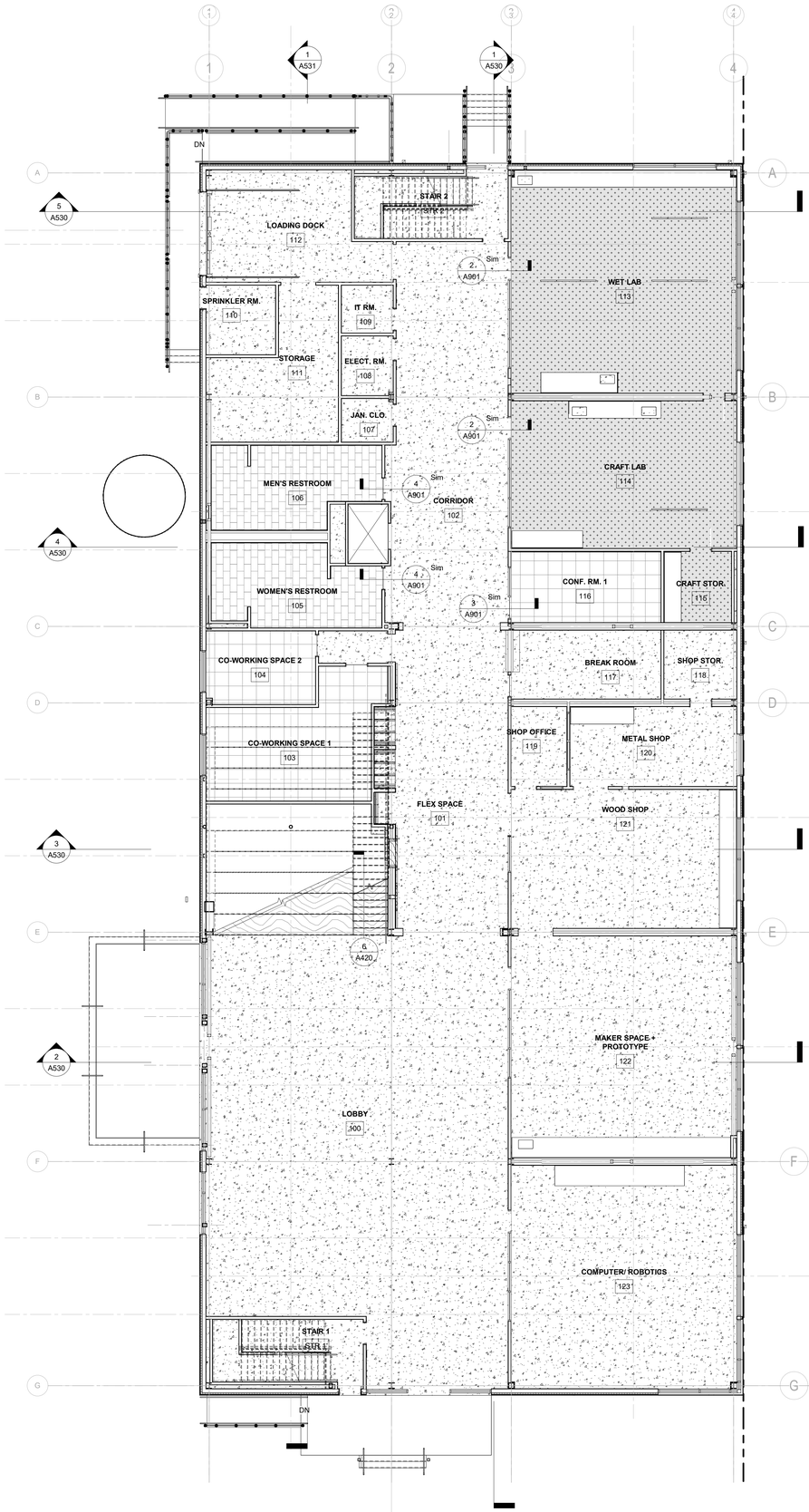
WDG Project No: 2024002

SHEET NAME

FIRST AND SECOND FLOOR DIMENSION PLANS

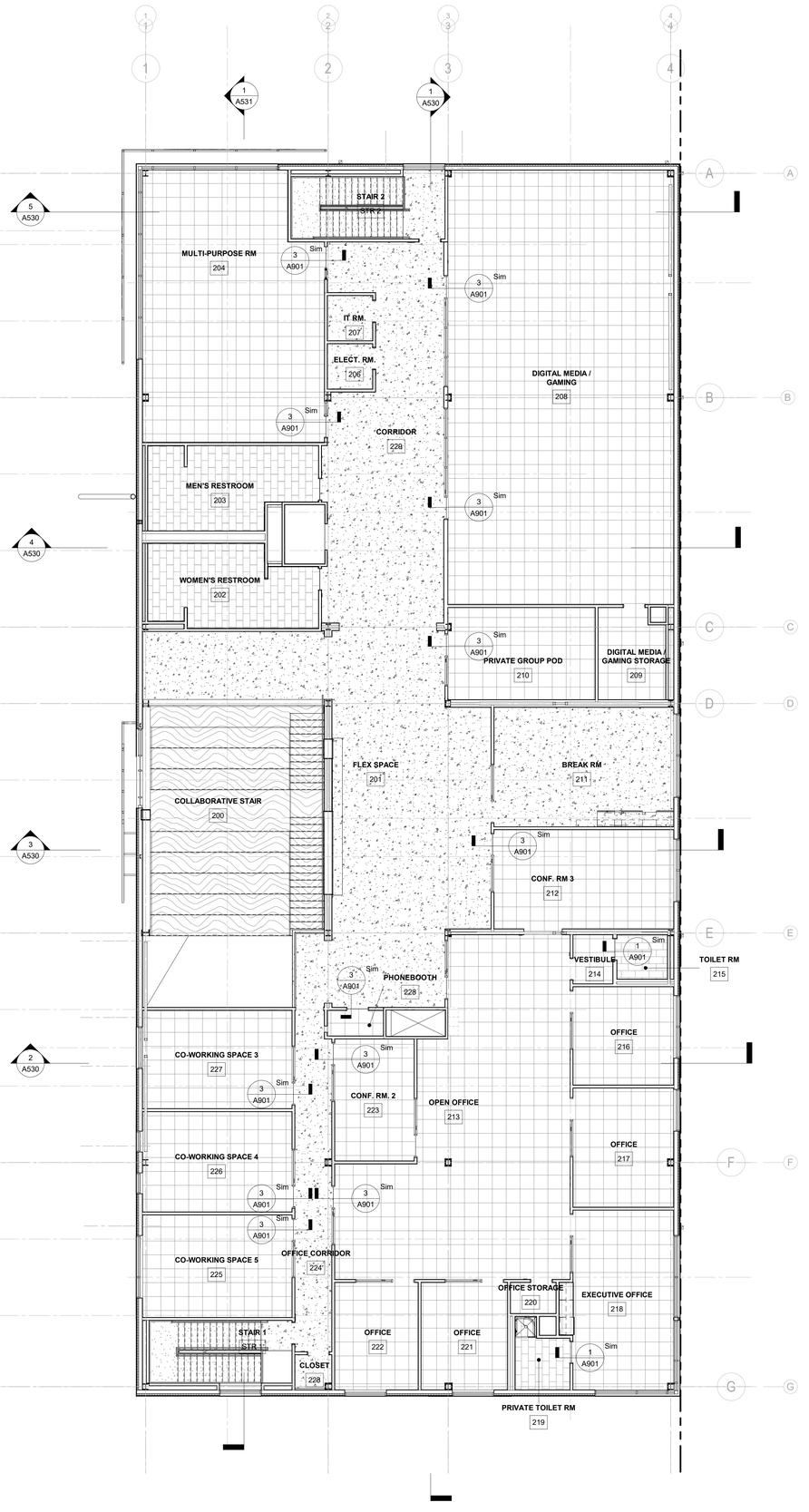
SHEET NO. A212

studio kiro



1 A213 FIRST FLOOR PLAN Copy 2

1/8" = 1'-0"



2 A213 SECOND FLOOR PLAN Copy 2

1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
2. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
3. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
4. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

LEGEND

- SEALED CONCRETE (CONC-1, CONC-2)
- CARPET TILE (CPT-1, CPT-2)
- PORCELAIN FLOOR TILE (TL-1)
- NO FLOORING. EXPOSED TO STRUCTURE TO BELOW
- RUBBER FLOORING (RF-1)
- ENGINEERED HARDWOOD (WD-1)

studio kiro

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025

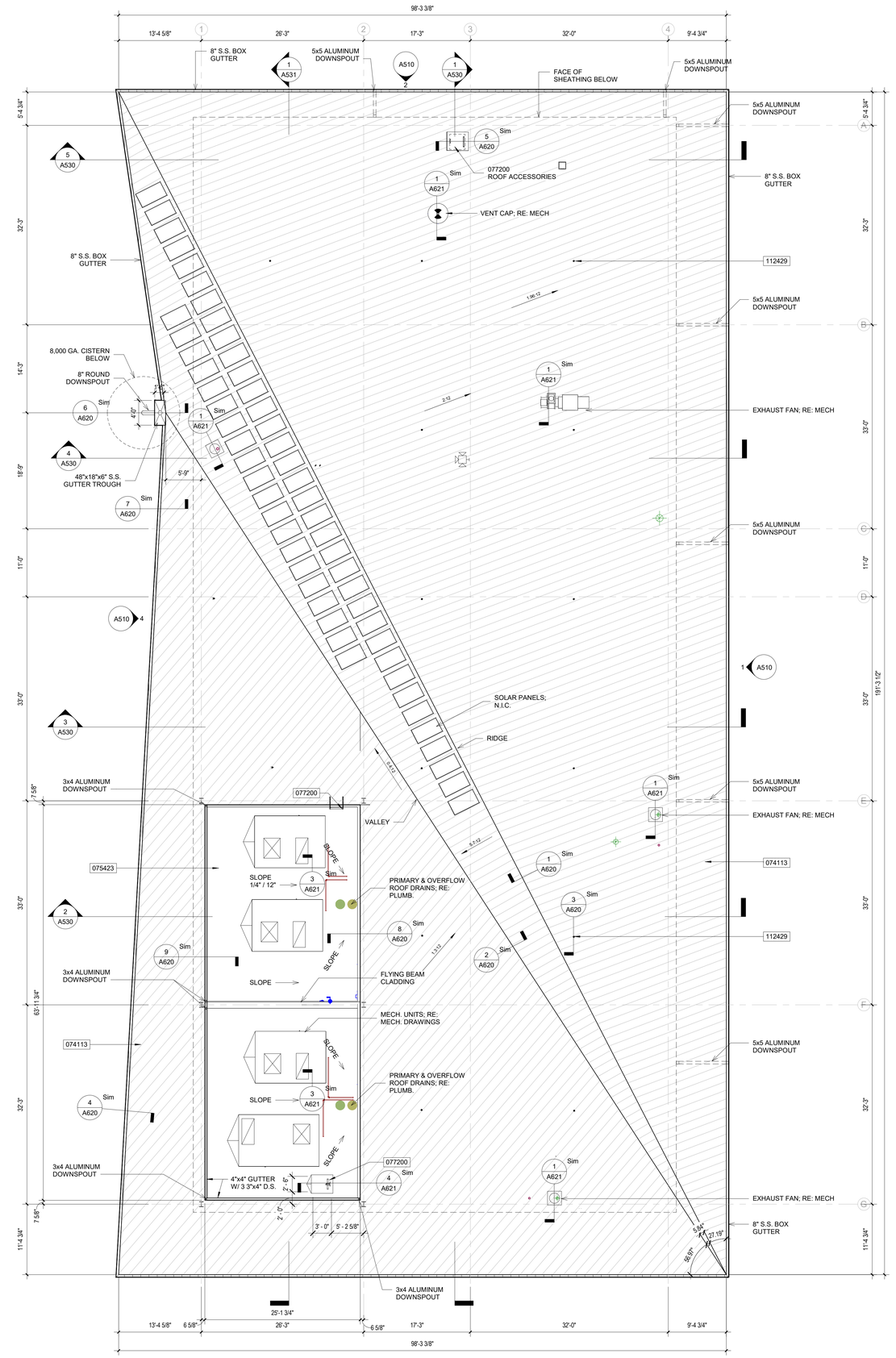
DOMINIC A. WILLARD JR. REG. No. 37908 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

FIRST AND SECOND FLOOR FINISH PLANS

SHEET NO. A213



GENERAL NOTES

SHEET NOTES

074113	STANDING-SEAM METAL ROOF PANELS
075423	THERMOPLASTIC POLYOLEFIN (TPO) ROOFING
077200	ROOF ACCESSORIES
112429	FACILITY FALL PROTECTION

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

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01/19/2026	PERMIT SET

REVISIONS

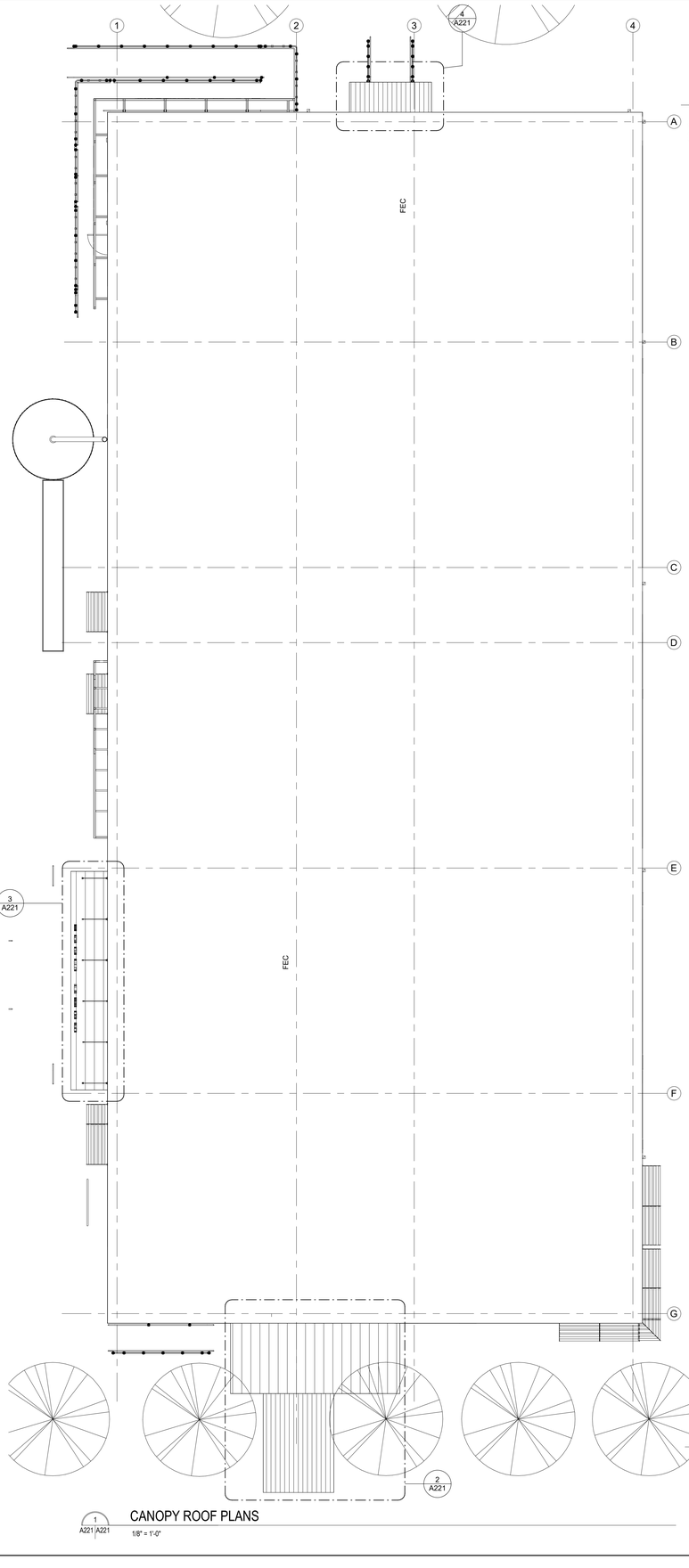
DOMINIC A. WILLARD, JR. REG. No. 37609 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

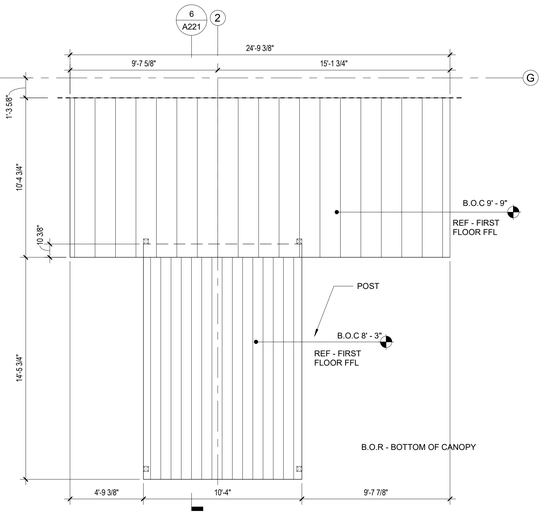
ROOF PLAN

SHEET NO. A220



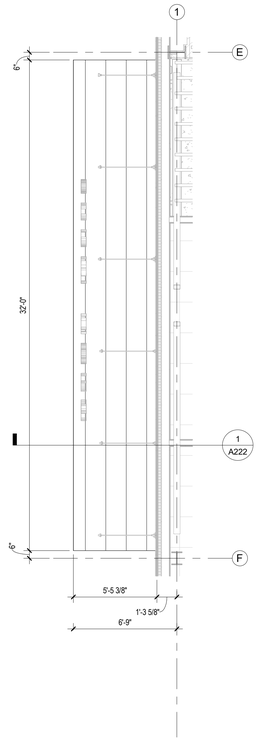
CANOPY ROOF PLANS

1 A221 A221 — 1/8" = 1'-0"



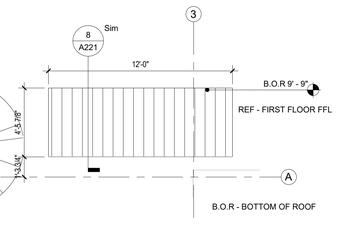
SOUTH ENTRY CANOPY- PLAN

2 A221 A221 — 1/4" = 1'-0"



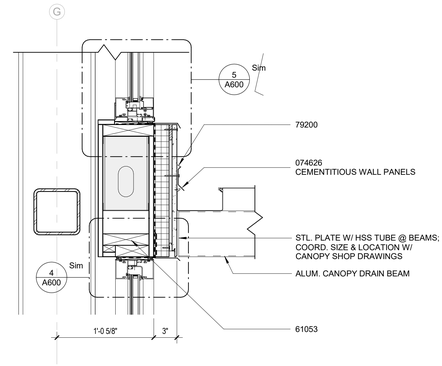
WEST ENTRY CANOPY-PLAN

3 A221 A221 — 1/4" = 1'-0"



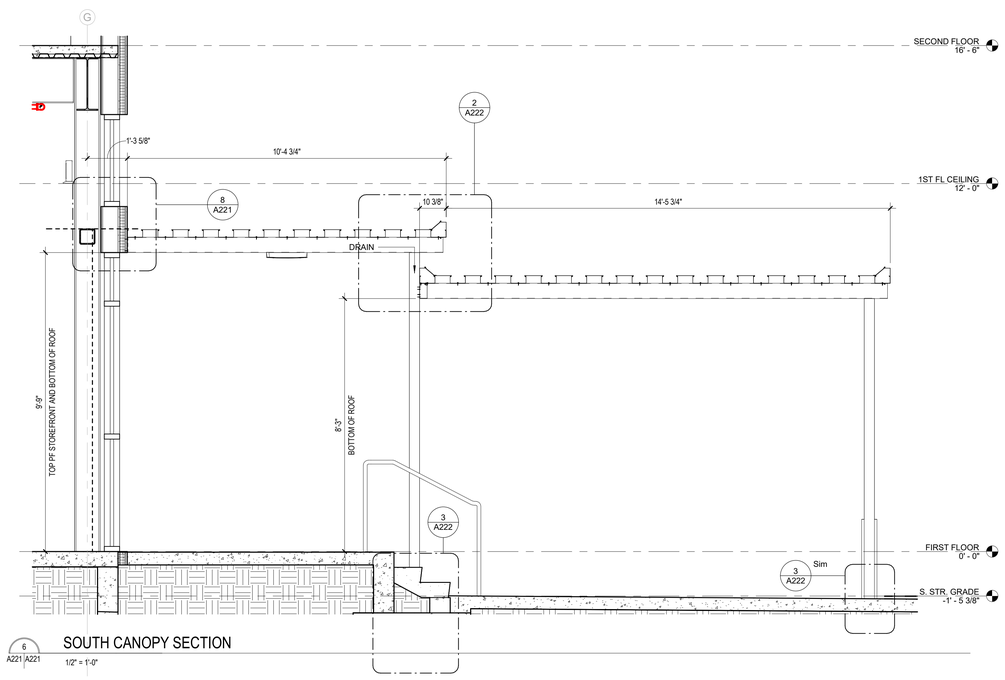
NORTH ENTRY CANOPY - PLAN

4 A221 A221 — 1/4" = 1'-0"



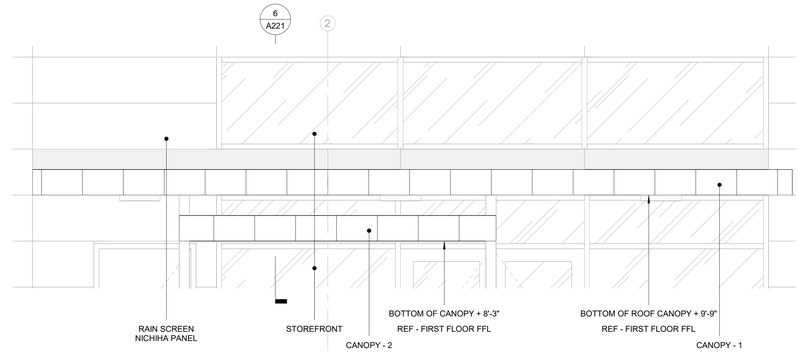
SOUTH CANOPY-STOREFRONT SECTION DETAIL

8 A221 A221 — 1 1/2" = 1'-0"



SOUTH CANOPY SECTION

6 A221 A221 — 1/2" = 1'-0"



SOUTH CANOPY - ELEVATION

5 A221 — 1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

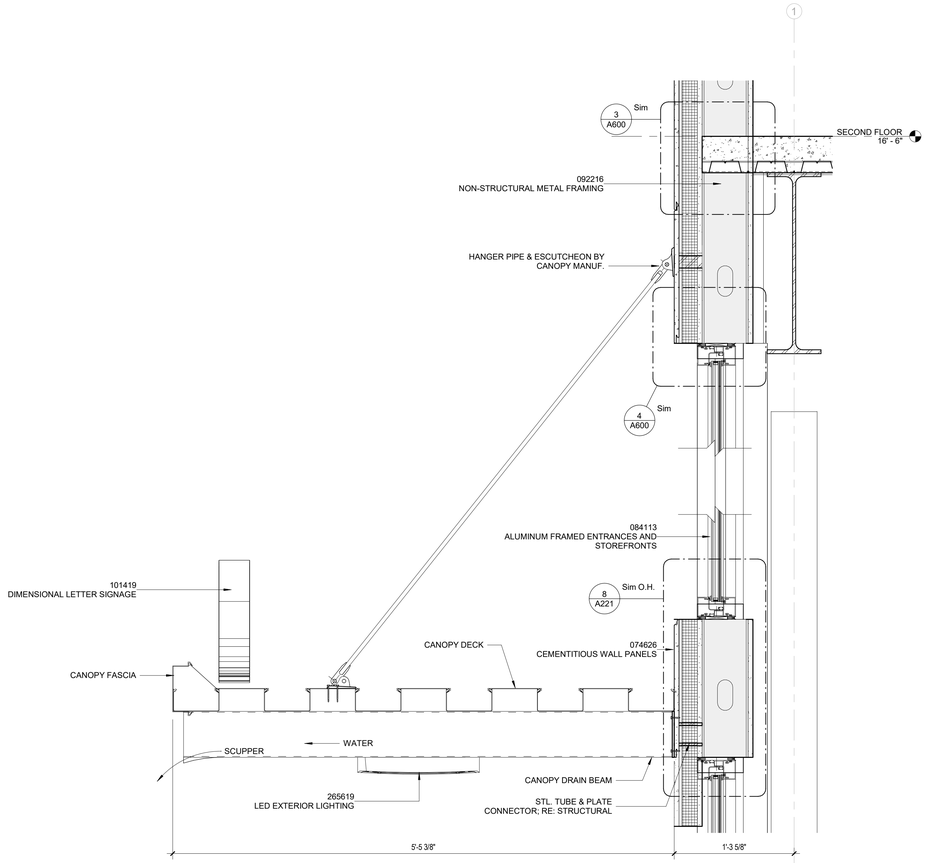
DOMINIC A. WILLARD, AIA
REG. No. 37909
STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

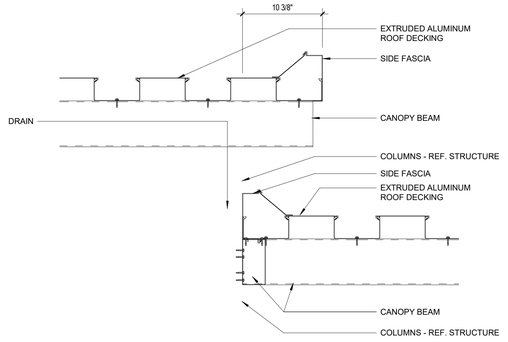
CANOPY ROOFS - DETAILS

SHEET NO. A221



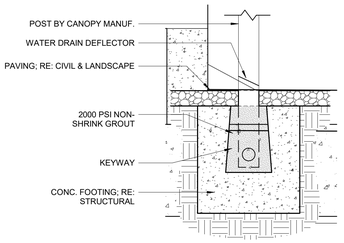
1 A221 | A222 WEST CANOPY-SECTION

1 1/2" = 1'-0"



2 A221 | A222 SOUTH CANOPY - OVERLAP DETAIL

1 1/2" = 1'-0"



3 A221 | A222 SOUTH CANOPY - COLUMN BASE DETAIL

1" = 1'-0"

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01/19/2026	PERMIT SET

REVISIONS

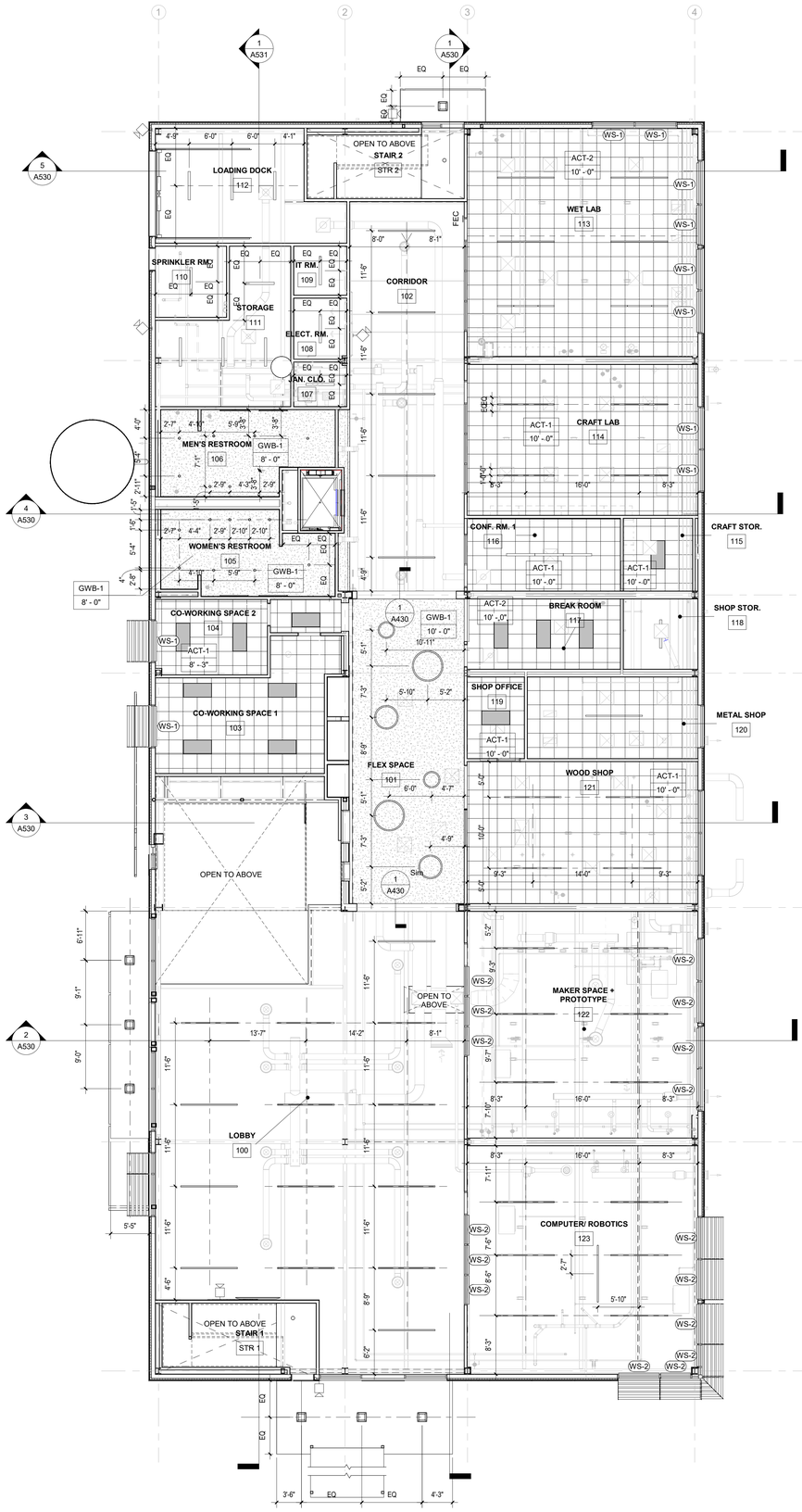
DOMINIC A. WILLARD, JR. REG. No. 37638 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

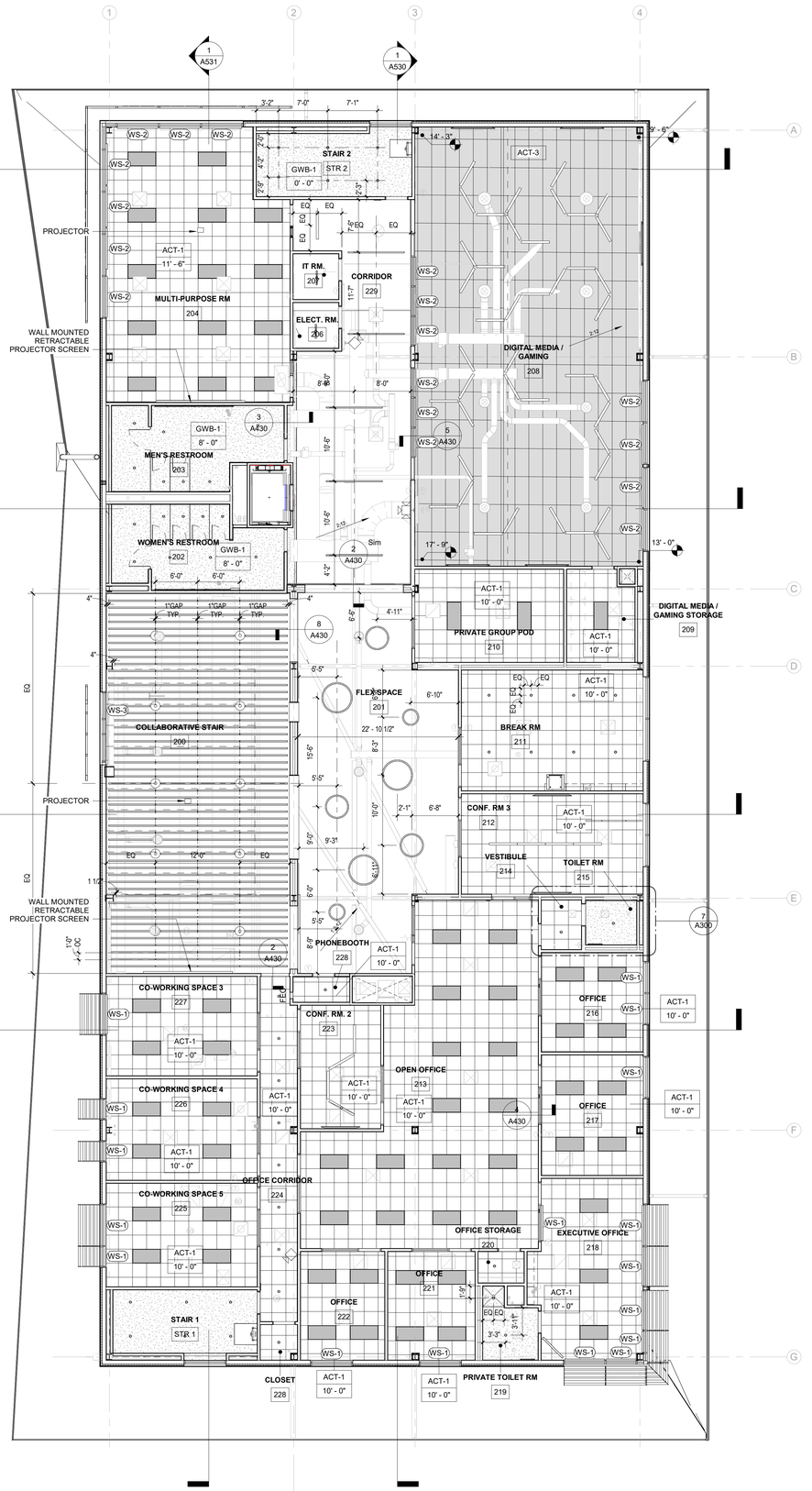
SHEET NAME

CANOPY ROOFS - DETAILS

SHEET NO. A222



1 FIRST FLOOR REFLECTED CEILING PLAN
A231 1/8" = 1'-0"



2 SECOND FLOOR REFLECTED CEILING PLAN
A231 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SCHEDULES, LEGENDS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
2. LIGHT FIXTURE LOCATIONS SHALL TAKE PRECEDENCE OVER ALL OTHER CEILING SYSTEMS FOLLOWED BY SURVEILLANCE CAMERAS, DIFFUSERS, RETURN AIR GRILLES, SOUND, ETC. ARCHITECTURAL DRAWINGS DICTATE INTENT OF FINAL LOCATION. GENERAL CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL THE ABOVE WITH ARCHITECTURAL PRIOR TO INSTALLATION PER SPECIFICATION.
3. FOR LIGHT FIXTURE LOCATIONS, THE ARCHITECTURAL DOCUMENTS SUPERSEDE THE ENGINEERING DOCUMENTS.
4. COORDINATE FINAL INSTALLATION OF ALL FIXTURE TYPES WITH ARCHITECTURAL, ELECTRICAL, MILLWORK AND/OR INTERIOR DESIGN DETAILS.
5. SEE ARCHITECTURAL LIGHTING PLANS & ENGINEERING DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS & SCHEDULE. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID SUBMITTAL. NO CHANGE ORDERS WILL BE ACCEPTED DUE TO CONFLICTS IN SCHEDULES.
6. LIGHTING FIXTURE LOCATIONS, AS SHOWN ON LIGHTING PLANS, SHALL TAKE PRECEDENCE OVER ALL OTHER SYSTEMS. OBTAIN WRITTEN APPROVAL FROM LIGHTING DESIGNER/ARCHITECT PRIOR TO EXECUTING ANY CHANGES IN LOCATION.
7. CONFIRM THE EXACT LENGTHS REQUIRED BY FIELD MEASUREMENT FOR ALL LINEAR FIXTURE TYPES AND PROVIDE ALL NECESSARY PARTS AND ACCESSORIES TO INSURE PROPER AND COMPLETE INSTALLATION.
8. CONSTRUCT ALL ARCHITECTURAL COVE TYPE FIXTURES AS DETAILED AND DIMENSIONED. OBTAIN WRITTEN APPROVAL FROM LIGHTING DESIGNER/ARCHITECT PRIOR TO UNDERTAKING ANY CHANGES TO DIMENSIONS OR CONFIGURATION.
9. CONFIRM WITH ARCHITECT DESIGNER THE EXACT CENTER LINE AFF MOUNTING HEIGHT OF ALL JUNCTION BOXES FOR WALL MOUNTED FIXTURE TYPES.
10. SEE ENGINEERING DOCUMENTS FOR BALLAST AND VOLTAGE REQUIREMENTS.
11. CONFIRM THAT ALL FIXTURES ARE UL OR ETL LISTED AS A SYSTEM AND COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODES APPLICABLE TO JURISDICTION.
12. CONFIRM AND SUPPLY THE EXACT TYPE, SIZE AND QUANTITY OF ALL LAMPS REQUIRED FOR EACH FIXTURE AND TYPE.
13. AT CLOSE OF JOB, RE-LAMP ALL FIXTURES WITH NEW LAMPS AND PROVIDE OWNER/TENANT WITH 10% SPARE (NEW) LAMPS OF ALL LAMP TYPES, UNO.
14. SIZE ALL TRANSFORMERS PER NATIONAL ELECTRIC CODES APPLICABLE TO JURISDICTION.
15. PROVIDE DIMMABLE BALLAST FOR ALL FLUORESCENT LIGHTS CONTROLLED BY DIMMER SWITCHES.
16. CONFIRM ALL FINISHES NOT SPECIFIED WITH ARCHITECT PRIOR TO ORDERING.
17. PROVIDE SELF-FLANGED, OVERLAP TRIMS OF THE SAME MATERIAL AND FINISH AS THE REFLECTOR FOR ALL RECESSED FIXTURES.
18. ASSURE THAT ALL OPEN REFLECTOR AND ALZAK CONE APERTURE TYPE FIXTURES MATCH IN COLOR AND APPEARANCE REGARDLESS OF TYPES AND SOURCE.
19. ASSURE THAT ALL FIXTURES ARE FREE OF SCRATCHES, DENTS, DUST, FINGERPRINTS, ETC, AT CLOSE OF JOB.
20. FOR LIGHT SWITCHING AND LIGHT SWITCH LOCATIONS, SEE ENGINEERING DOCUMENTS.
21. GANG ALL ADJACENT SWITCHES UNDER ONE COVER PLATE.
22. SWITCH HEIGHT TO BE 38" AFF, UNLESS OTHERWISE NOTED. WHEN SWITCHES AND DIMMERS ARE ADJACENT, ALIGN THE HORIZONTAL CENTERLINE OF THE SWITCH AND THE HORIZONTAL CENTERLINE OF THE DIMMER. THE DISTANCE BETWEEN THE SWITCH AND THE DIMMER SHOULD BE ONE INCH (1").
23. FOR LIGHT SWITCHING AND LIGHT SWITCH LOCATIONS REFER TO ENGINEERING DOCUMENTS. COORDINATE ALL SWITCHES WITH MILLWORK.
24. ALL FIXTURE QUANTITIES SHOWN ON THE ENGINEERING DRAWINGS SHALL GOVERN.
25. ALL FIXTURES IN CEILING TILES TO BE CENTERED IN TILE U.N.O.

SHEET NOTES

LEGEND

- WS-1 MANUAL ROLLER SHADE
- WS-2 MANUAL ROLLER SHADE - BLACKOUT

SEE INTERIOR FINISH SCHEDULE FOR WINDOW SHADE PRODUCT INFORMATION

WS-3 ELECTRONIC ROLLER SHADE - BLACKOUT

SEE ELECTRICAL FOR LIGHT FIXTURE PRODUCT INFORMATION

- 2'x4' SQ. LAY-IN, FINE TEXTURE ACOUSTICAL CEILING TILE & GRID: ACT-3
- 2'x2' SQ. LAY-IN, FINE TEXTURE ACOUSTICAL CEILING TILE & GRID: ACT-2
- 2'x2' SQ. LAY-IN, FINE TEXTURE ACOUSTICAL CEILING TILE & GRID: ACT-1
- NO CEILING. EXPOSED TO STRUCTURE TO ABOVE
- SUSPENDED GYPSUM BOARD CEILING
- RECESSED RECTANGULAR LIGHT FIXTURE
- DOMED PENDANT LIGHT
- SURFACE MOUNT CYLINDER LIGHT
- RECESSED CAN DOWNLIGHT
- LINEAR PENDANT LIGHT
- LINEAR WALL MOUNT VANITY LIGHT
- EXTERIOR SCONCE UP-DOWN LIGHT
- EXTERIOR EMERGENCY SCONCE
- EXIT LIGHT (CEILING MOUNTED)
- EXIT LIGHT (WALL MOUNTED)
- RETURN AIR/EXHAUST
- DIFFUSER
- THERMOSTAT
- MICROPHONE

studio kiro

WILLARD DESIGN GROUP
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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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PERMIT SET

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01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025

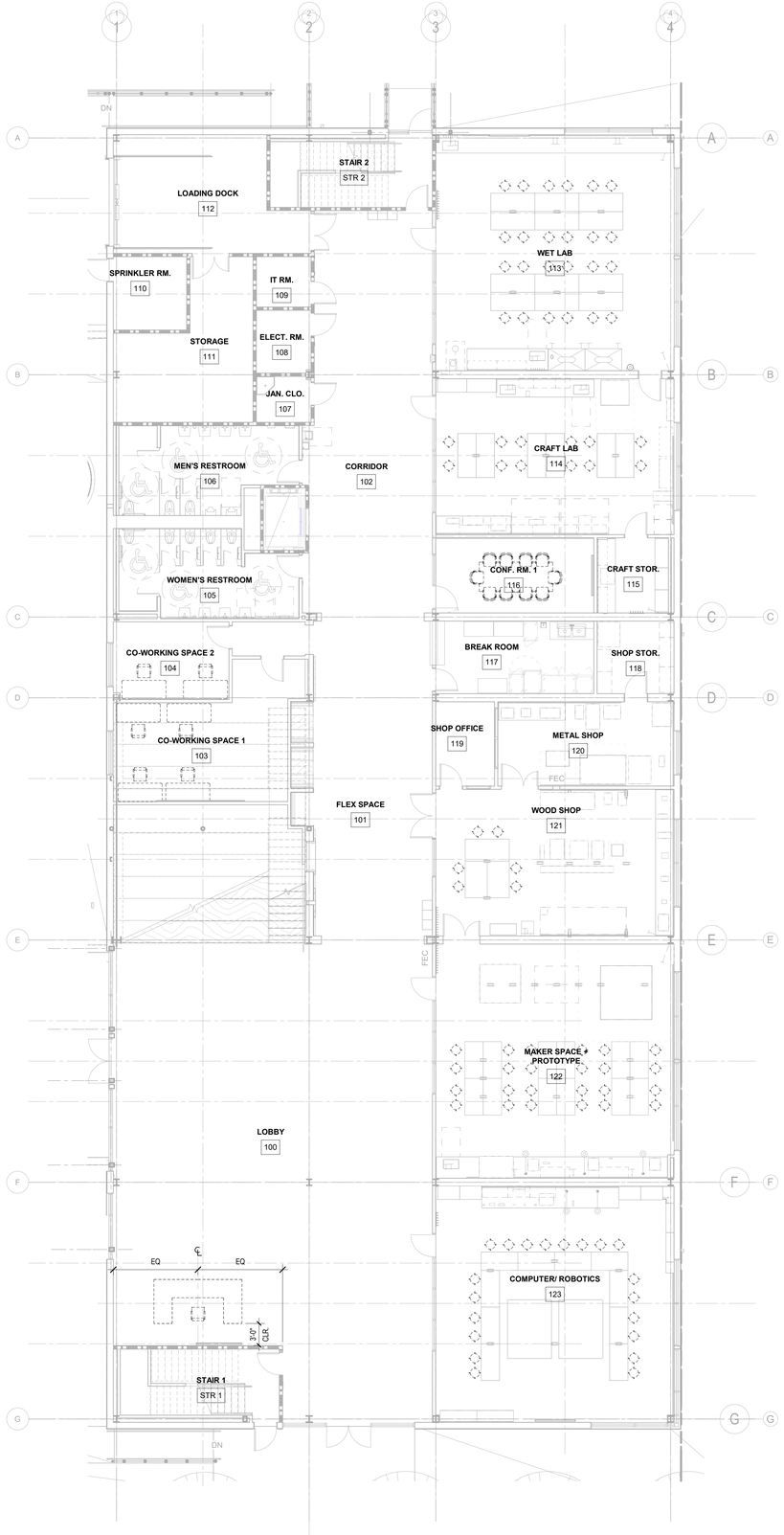
DOUNG A. WILLARD, JR. REG. No. 36,127 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

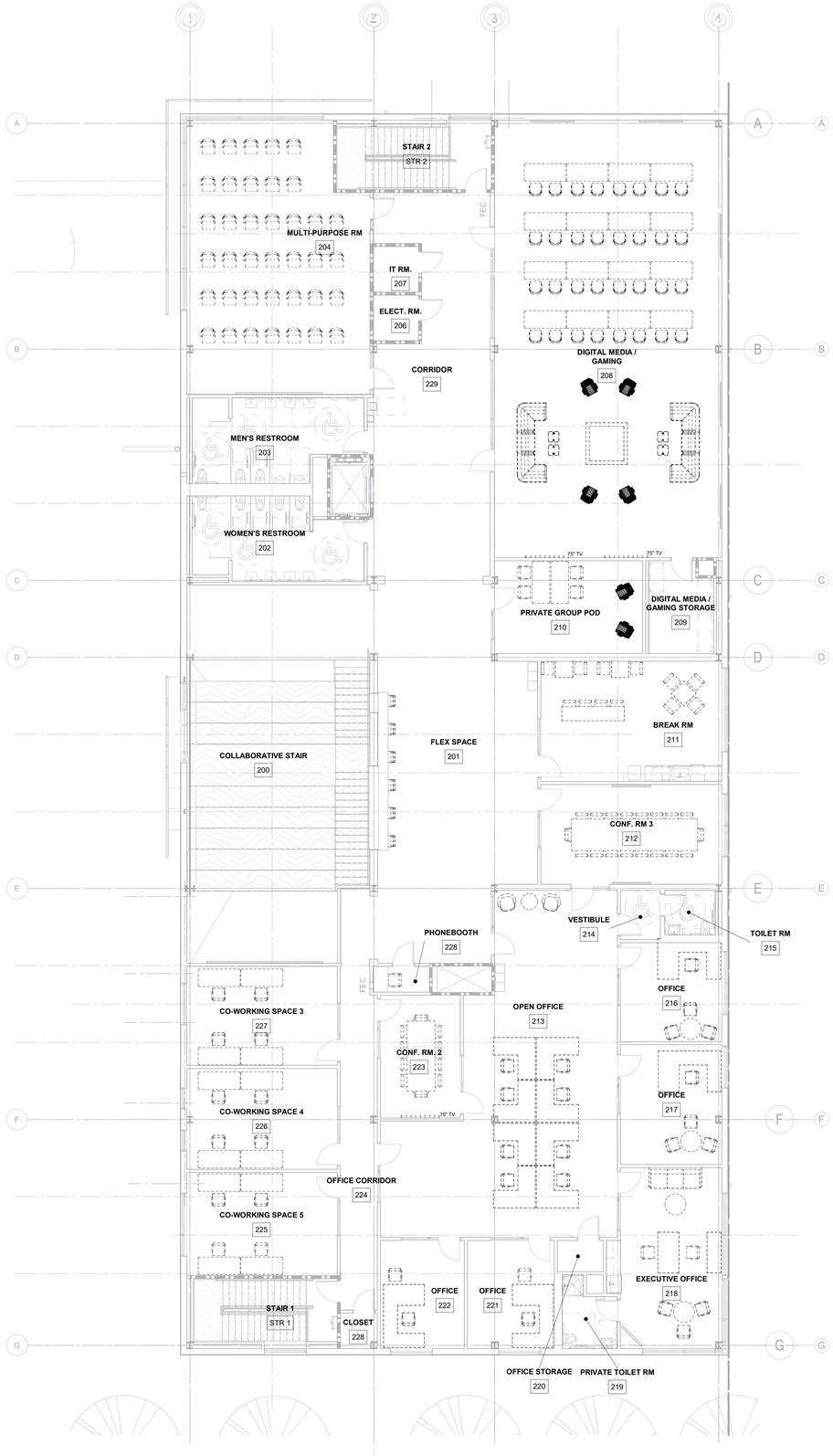
FIRST AND SECOND FLOOR REFLECTED CEILING PLANS

SHEET NO. A231



1 A251 FIRST FLOOR FURNITURE PLAN

1/8" = 1'-0"



2 A251 SECOND FLOOR FURNITURE PLAN

1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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REVISIONS

DOMINIC A. WILLARD, AIA REG. No. 37691 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

FF&E PLANS (FOR REFERENCE ONLY)

SHEET NO. A251

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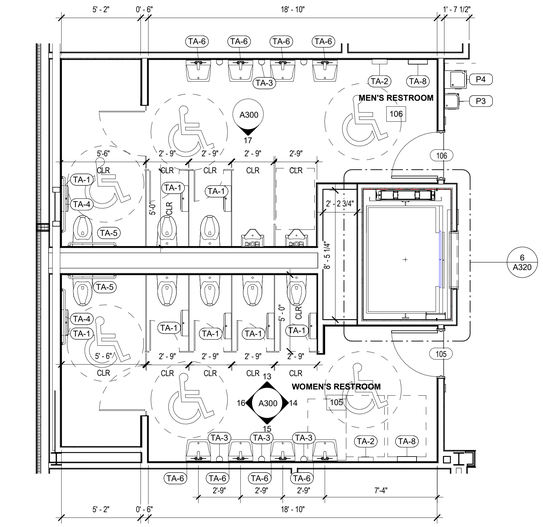
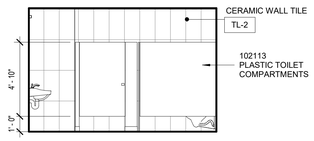
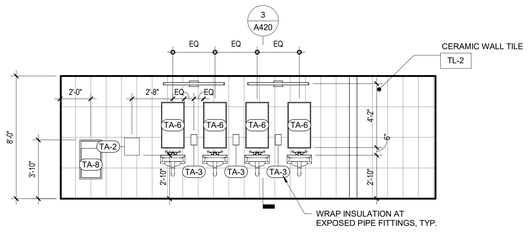


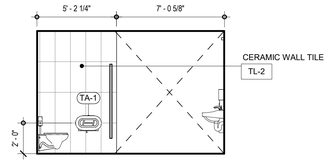
2 A211 A300 ENLARGED PLAN - MEN'S AND WOMEN'S RESTROOMS
1/4" = 1'-0"



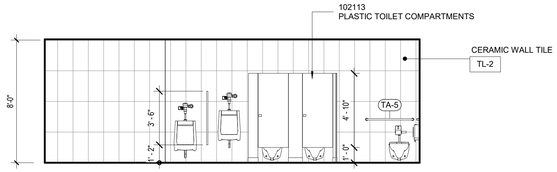
16 A300 A300 RESTROOM - WEST
1/4" = 1'-0"



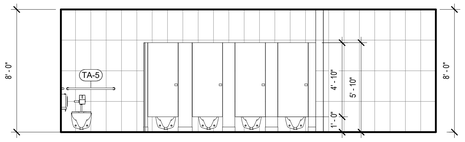
15 A300 A300 RESTROOM - LAVATORIES
1/4" = 1'-0"



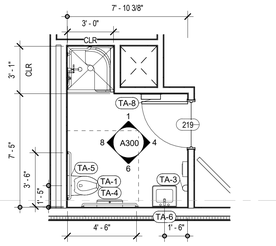
14 A300 A300 RESTROOM - EAST
1/4" = 1'-0"



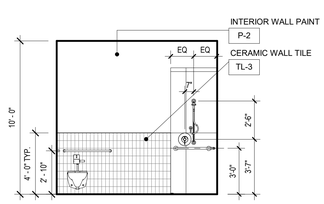
17 A300 A300 MENS RESTROOM - SOUTH
1/4" = 1'-0"



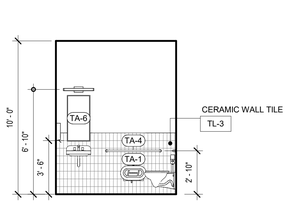
13 A300 A300 WOMENS RESTROOM - NORTH
1/4" = 1'-0"



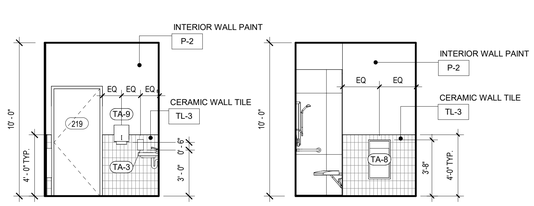
3 A211 A300 ENLARGED PLAN - PRIVATE TOILET ROOM
1/4" = 1'-0"



8 A300 A300 PVT TLT RM - WEST
1/4" = 1'-0"



6 A300 A300 PVT TLT RM - SOUTH
1/4" = 1'-0"



4 A300 A300 PVT TLT RM - EAST
1/4" = 1'-0"

1 A300 A300 PVT TLT RM - NORTH
1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH
TA-1	TOILET TISSUE DISPENSER	BOBRICK	B-2892	
TA-2	HAND DRYER	BOBRICK	B-7179	
TA-3	SOAP DISPENSER	BOBRICK	B-2012	
TA-4	ADA GRAB BAR - 42"	BOBRICK	B-5806	
TA-5	ADA GRAB BAR - 36"	BOBRICK	B-5806	
TA-6	BATHROOM MIRROR	BOBRICK	B-290	
TA-8	WALL RECESSED WASTE RECEPTACLE	BOBRICK	B-3644	
TA-9	PAPER TOWEL DISPENSER	BOBRICK	B-9262	

GENERAL NOTES

SHEET NOTES

1. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
2. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
3. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
4. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

102113	PLASTIC TOILET COMPARTMENTS

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122
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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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REVISIONS

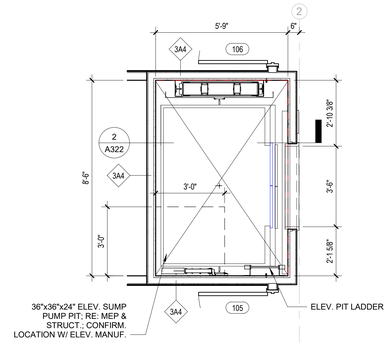
DOMINIC A. WILLARD JR. REG. No. 75208 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME
ENLARGED PLANS

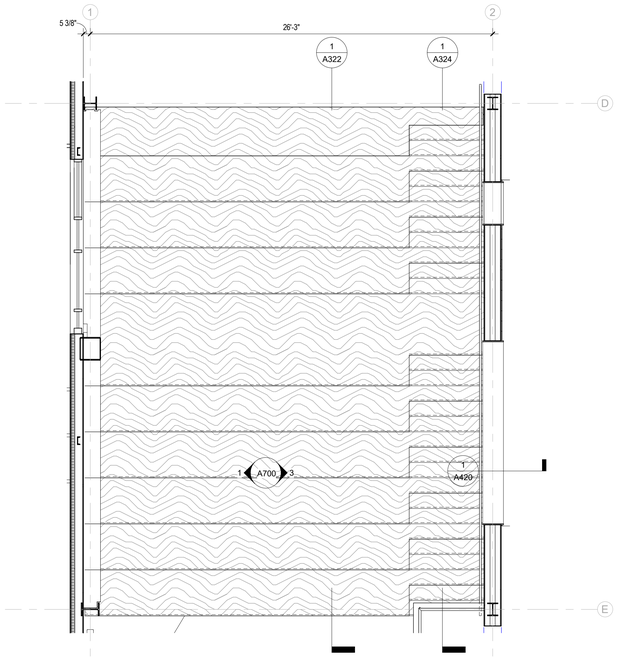
SHEET NO. A300

studio kiro



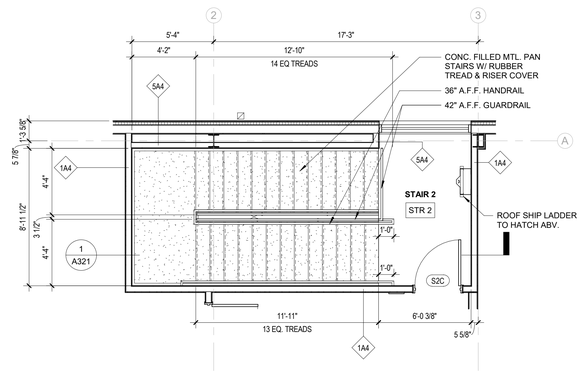
6 A300 | A320 ENLARGED PLAN - ELEVATOR - 1ST & 2ND FL

3/8" = 1'-0"



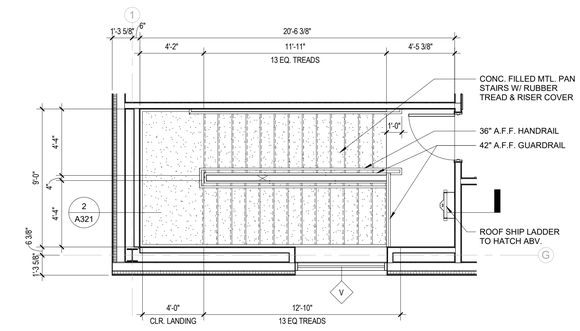
5 A320 ENLARGED PLAN - COLLAB. STAIR - 2ND FL

1/4" = 1'-0"



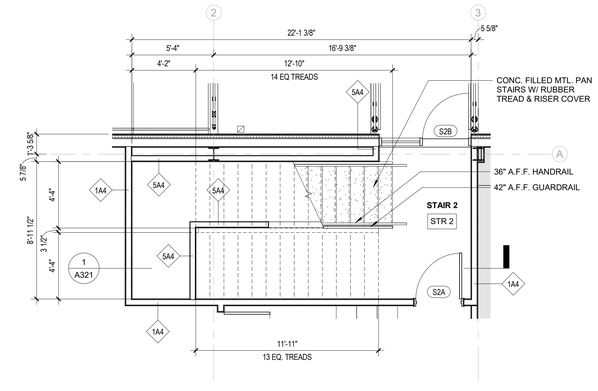
4 A211 | A320 ENLARGED PLAN - STAIR 2 - 2ND FL

1/4" = 1'-0"



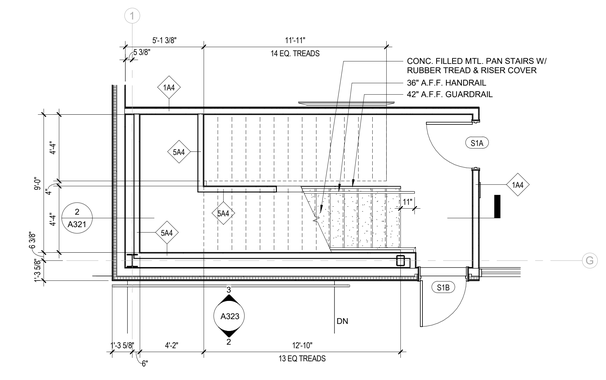
3 A211 | A320 ENLARGED PLAN - STAIR 1 - 2ND FL

1/4" = 1'-0"



2 A211 | A320 ENLARGED PLAN - STAIR 2 - 1ST FL

1/4" = 1'-0"



1 A211 | A320 ENLARGED PLAN - STAIR 1 - 1ST FL

1/4" = 1'-0"

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10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD, JR. REG. No. 38,444 STATE OF LOUISIANA REGISTERED ARCHITECT

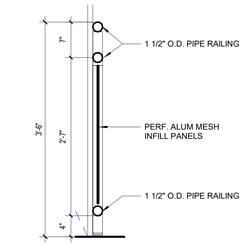
WDG Project No: 2024002

SHEET NAME

ENLARGED VERTICAL CIRCULATION DETAILS

SHEET NO.

A320



4 A211 A321 SECTION THRU EXTERIOR GUARDRAIL

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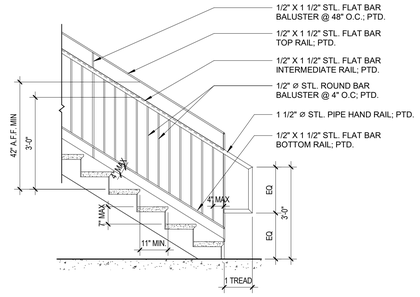

3 A321 A321 STAIR 1 & 2 TYP. RAILING DETAILS

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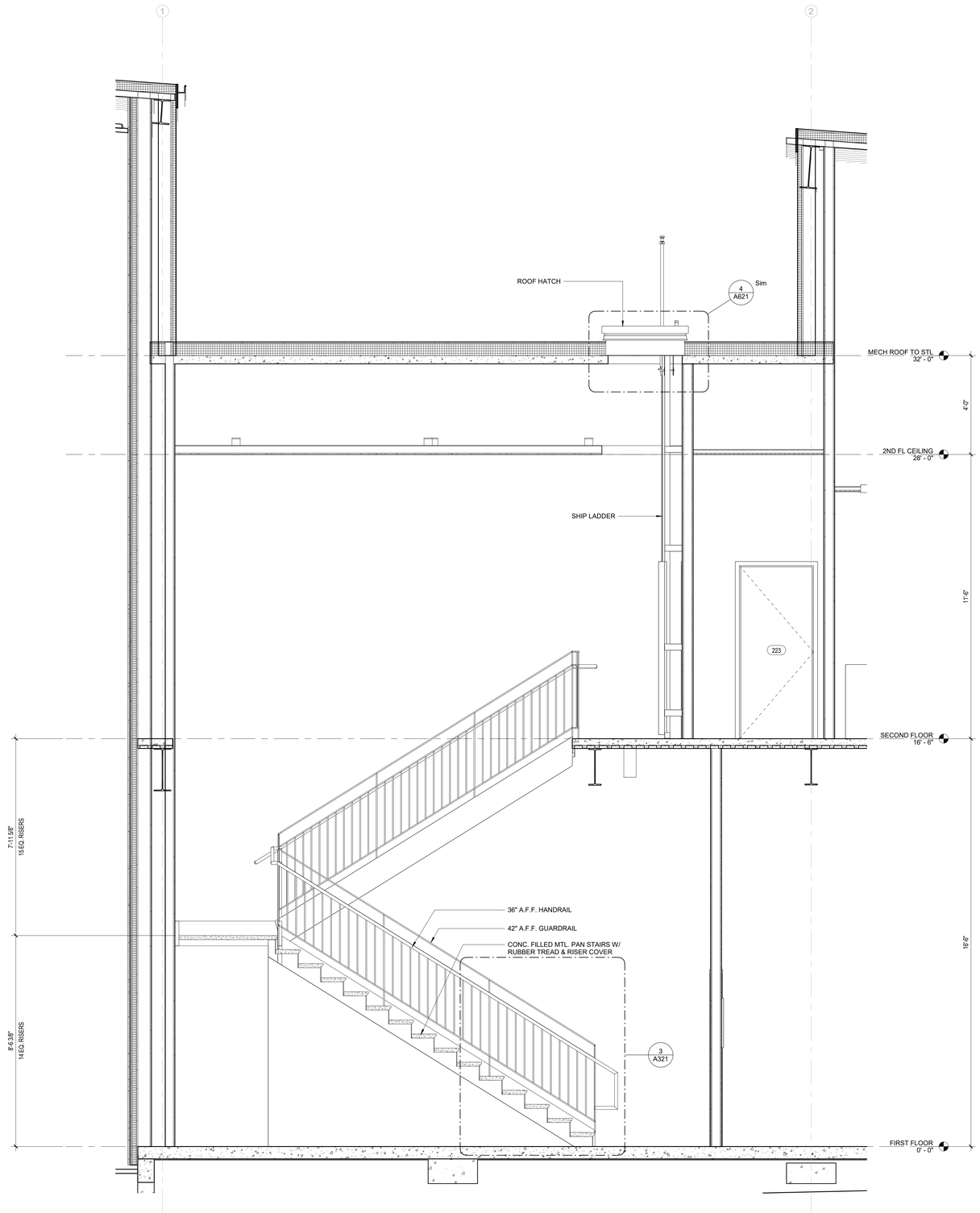

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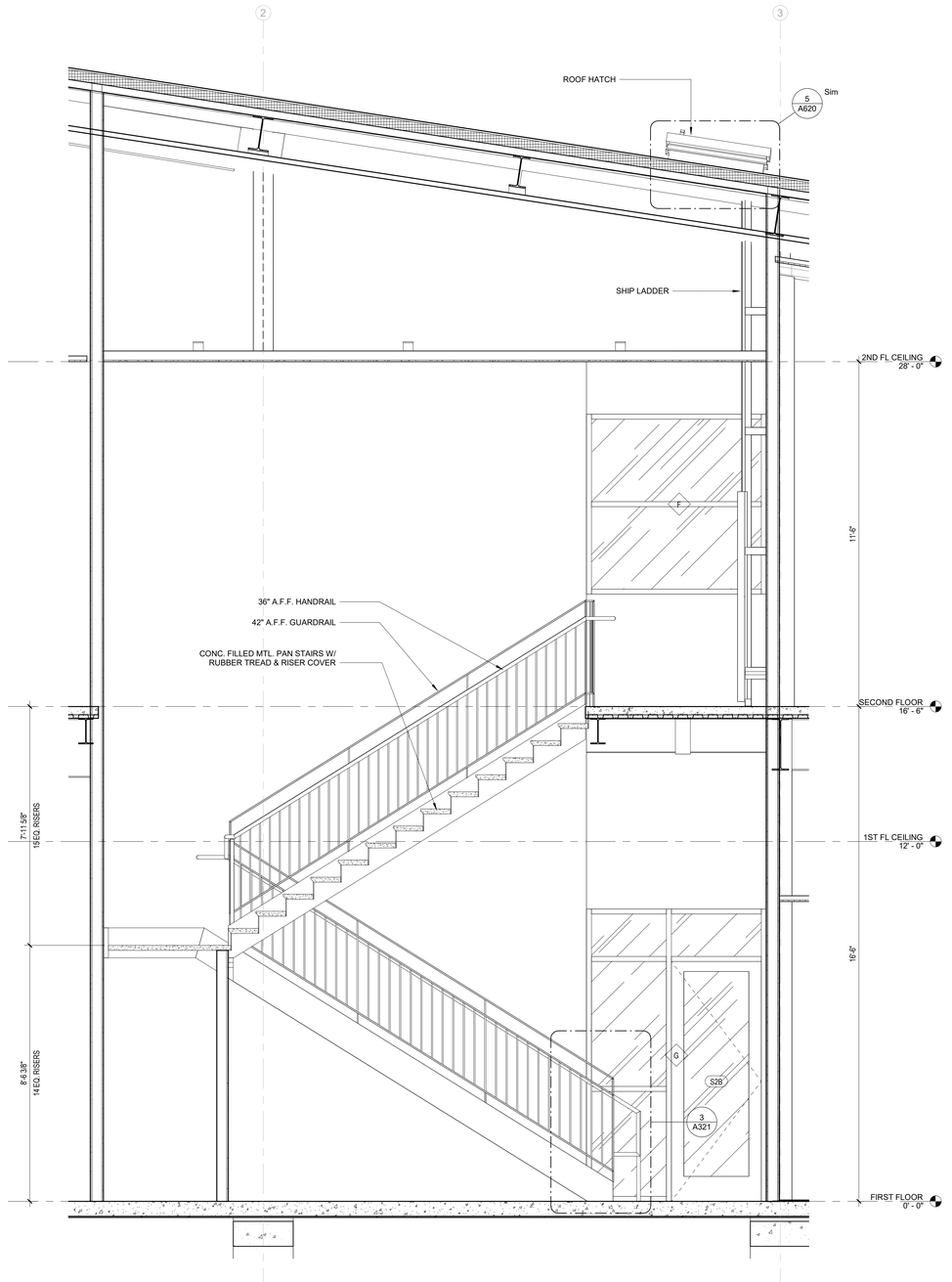

1 A320 A321 SECTION @ STAIR 2

1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

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10/13/2025	100% DD / GMP
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01/19/2026	PERMIT SET

REVISIONS

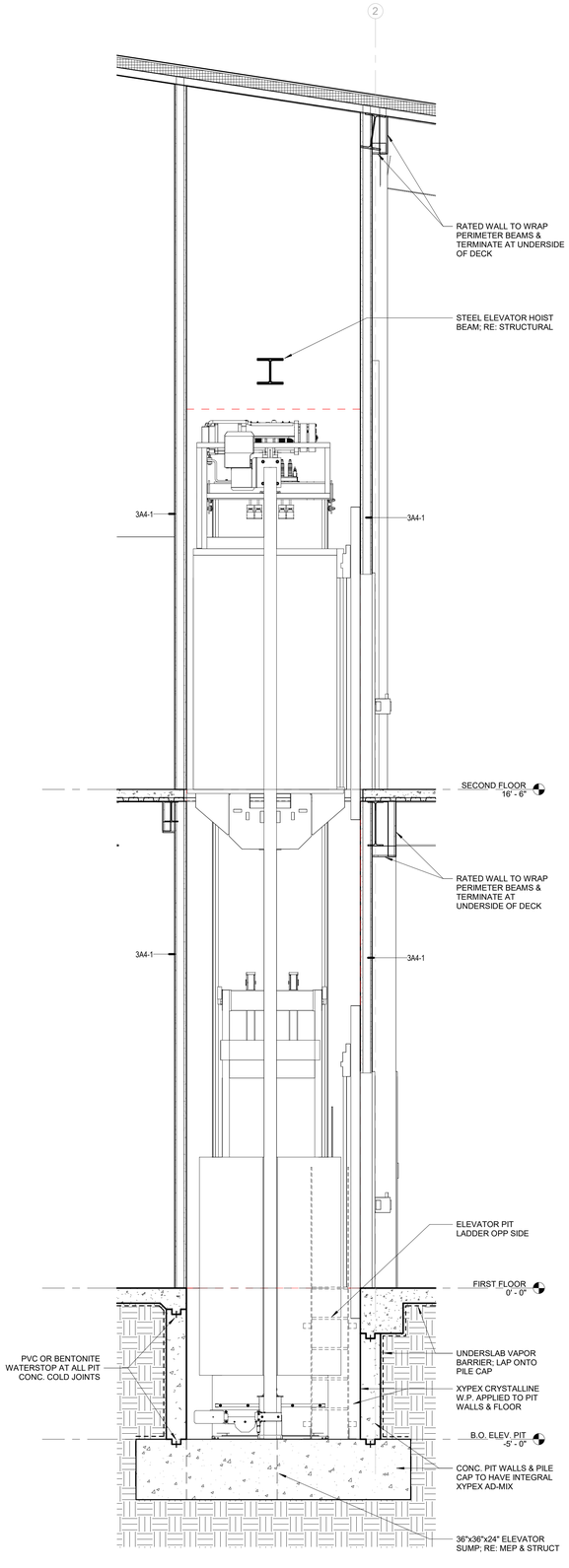
DOMINIC A. WILLARD, AIA
REG. No. 36106
STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

ENLARGED VERTICAL CIRCULATION DETAILS

SHEET NO. A321



2 A320 A322 SECTION @ ELEVATOR

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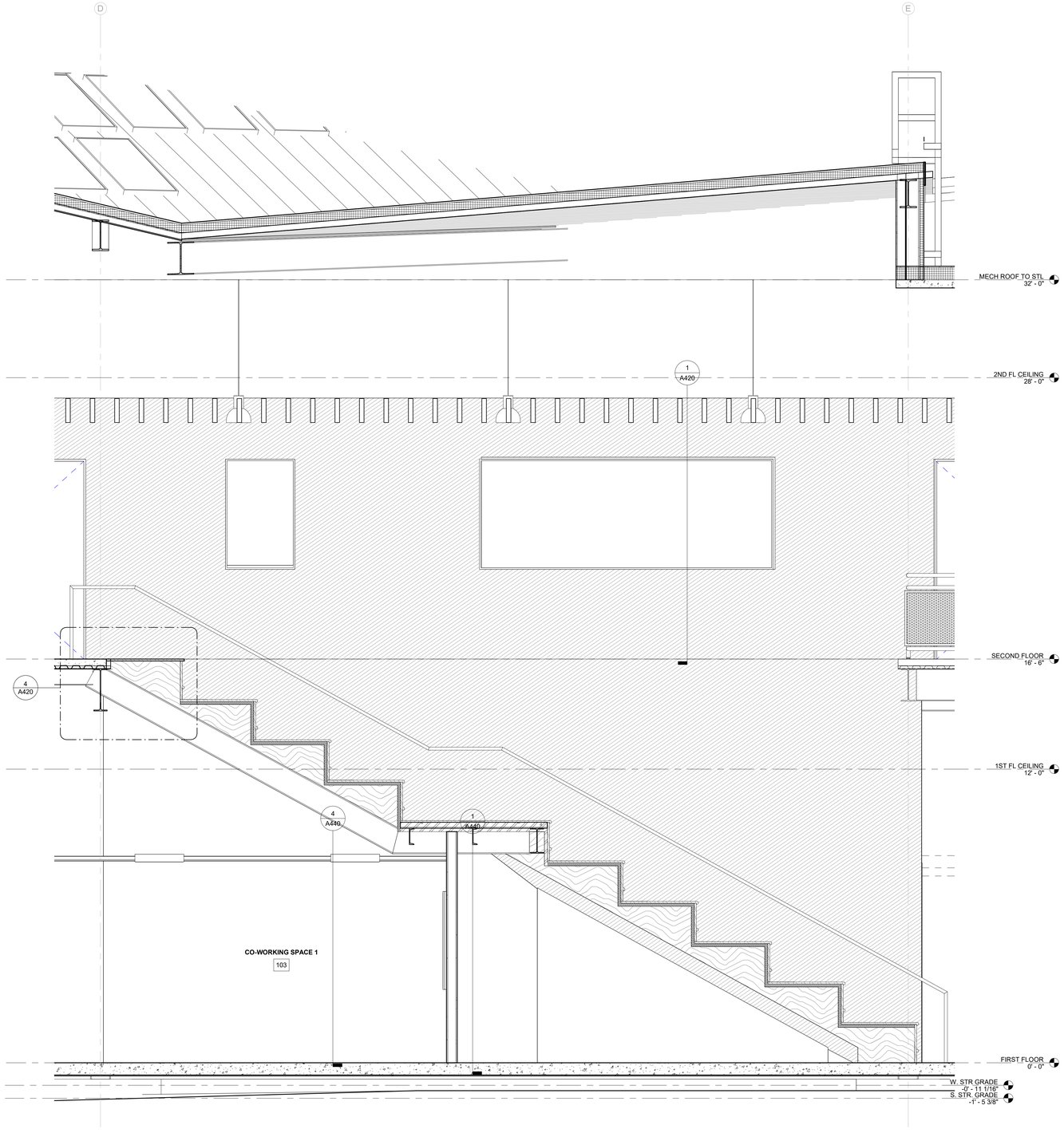

1 A320 A322 SECTION @ COLLABORATIVE STAIRS

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4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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01/19/2026	PERMIT SET

REVISIONS

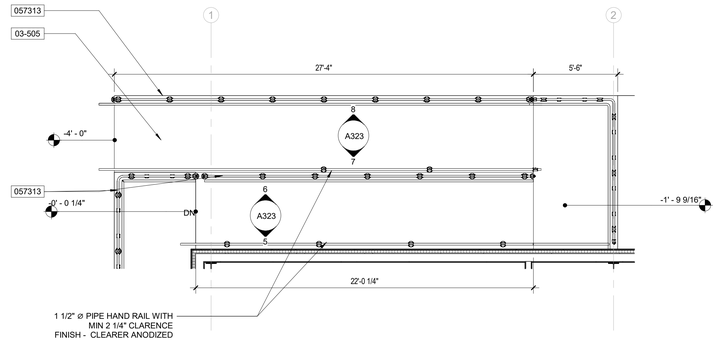
DOMINIC A. WILLARD #35 REG. No. 7321 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

ENLARGED VERTICAL CIRCULATION DETAILS

SHEET NO. A322



4 A211 A323 NORTH RAMP PLAN

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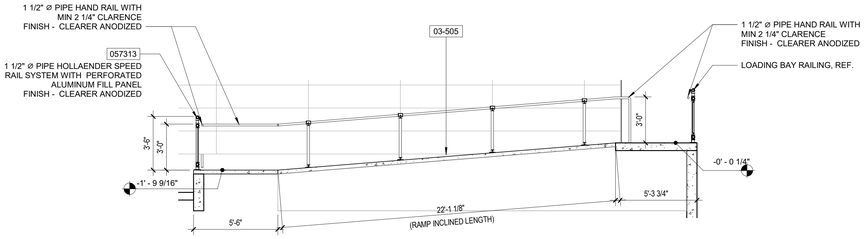

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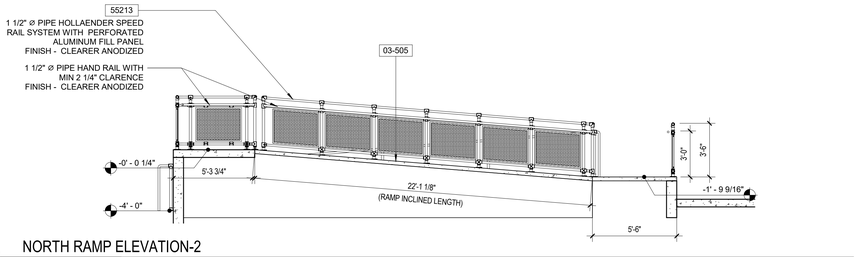

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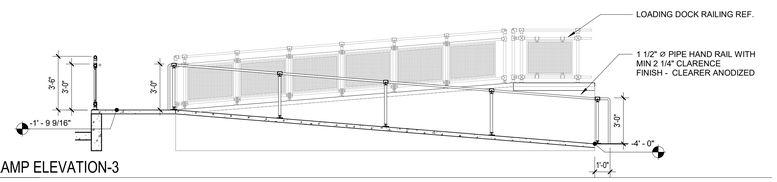

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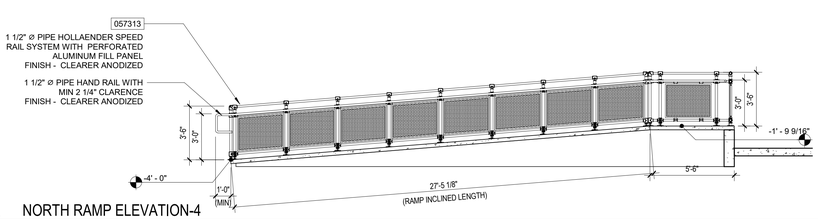

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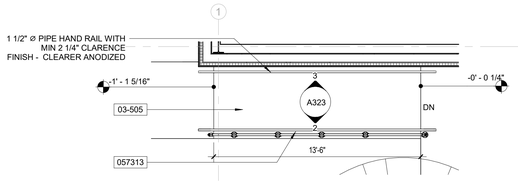

1 A211 A323 SOUTH RAMP PLAN

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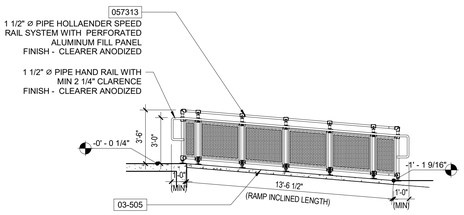

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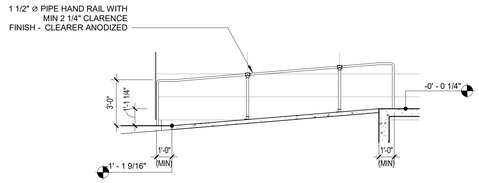

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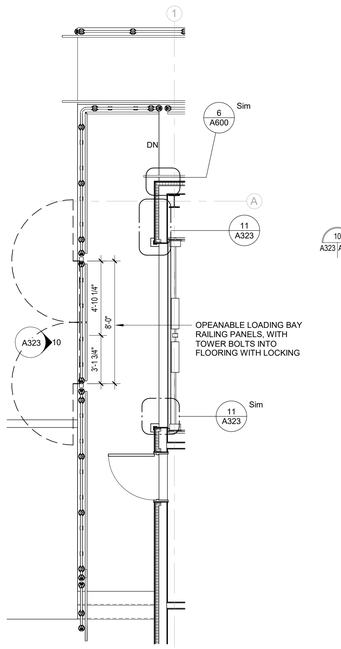
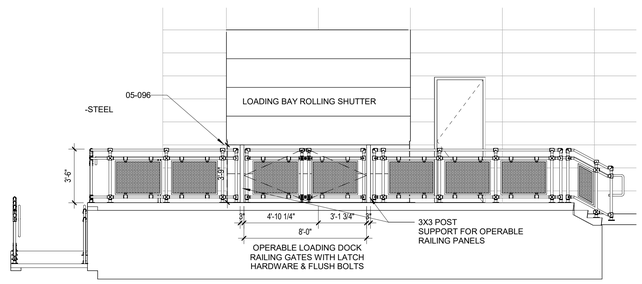


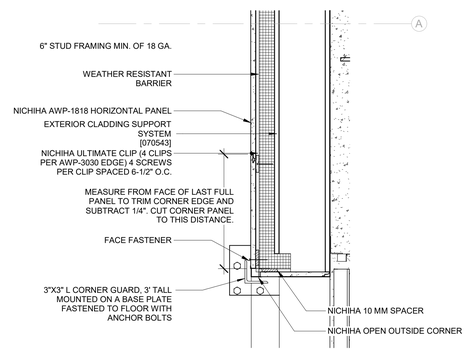
9 A211 A323 LOADING BAY - PLAN

1/4" = 1'-0"



10 A323 A323 LOADING BAY RAILING DETAILS

1/4" = 1'-0"



11 A323 A323 LOADING BAY CORNER DETAIL

1 1/2" = 1'-0"

GENERAL NOTES

SHEET NOTES

03-505	
05-096	
55213	
057313	DECORATIVE METAL RAILINGS EXTERIOR
070543	EXTERIOR CLADDING SUPPORT SYSTEM

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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REVISIONS

DOMINIC A. WILLARD, III
REG. No. 34
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

ENLARGED VERTICAL CIRCULATION DETAILS

SHEET NO. A323

CHAPTER 4: ACCESSIBLE ROUTES (cont.)

405-Ramps

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

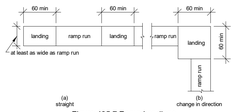

Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

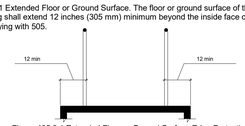

Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

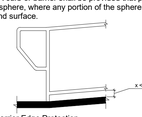

Figure 405.9.2 Curb or Barrier Edge Protection

406-Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

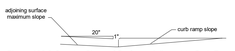

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

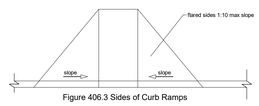

Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

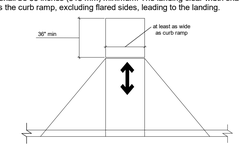

Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

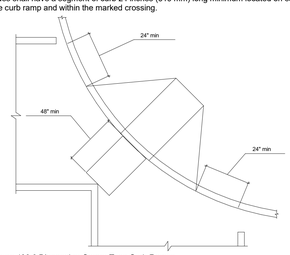

Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

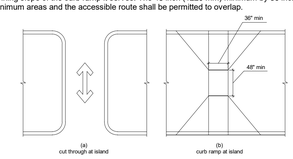

Figure 406.7 Islands in Crossings

407-Elevators

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

407.2 Elevator Landing Requirements. Elevator landings shall comply with 407.2.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in 308, measured to the centerline of the highest operable part.
EXCEPTION: Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the finish floor, measured to the centerline of the highest operable part.

407.2.1.2 Size. Call buttons shall be ¾ inch (19 mm) minimum in the smallest dimension.
EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.1.2.

407.2.1.3 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided at call controls.

407.2.1.4 Location. The call button that designates the up direction shall be located above the call button that designates the down direction.
EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.2.1.4.

407.2.1.5 Signals. Call buttons shall have visible signals to indicate when each call is registered and when each call is answered.
EXCEPTIONS: 1. Destination-oriented elevators shall not be required to comply with 407.2.1.5 provided that visible and audible signals complying with 407.2.2 indicating which elevator car to enter are provided.
2. Existing elevators shall not be required to comply with 407.2.1.5.

407.2.1.6 Keypads. Where keypads are provided, keypads shall be in a standard telephone keypad arrangement and shall comply with 407.4.7.2.

407.2.2 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.2.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.
EXCEPTIONS: 1. Visible and audible signals shall not be required at each destination oriented elevator where a visible and audible signal complying with 407.2.2 is provided indicating the elevator car designation information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2-½ inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.
EXCEPTIONS: 1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with 407.2.2.2.

407.3.1 Type. Elevator doors shall be the horizontal sliding type. Car gates shall be prohibited.

407.3.2 Operation. Elevator hoistway and car doors shall open and close automatically.
EXCEPTION: Existing manually operated hoistway swing doors shall be permitted provided that they comply with 404.2.3 and 404.2.9. Car door closing shall not be initiated until the hoistway door is closed.

407.3.3 Reopening Device. Elevator doors shall be provided with a reopening device complying with 407.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.
EXCEPTION: Existing elevators with manually operated doors shall not be required to comply with 407.3.3.

407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor.

407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1.
EXCEPTION: Existing elevator car configurations that provide a clear floor area of 16 square feet (1.5 m2) minimum and also provide an inside clear depth 54 inches (1370 mm) minimum and a clear width 36 inches (915 mm) minimum shall be permitted.

Table 407.4.1 Elevator Car Dimensions

Door Location	Minimum Dimensions			
	Door Clear Width	Inside Car, Side to Side	Inside Car, Back Wall to Front Return	Inside Car, Back Wall to Inside Face of Door
Centered	42 inches	80 inches	51 inches	54 inches
Side (off-centered)	36 inches[1]	68 inches	51 inches	54 inches
Any	36 inches[1]	54 inches	80 inches	80 inches
Any	36 inches[1]	60 inches[2]	60 inches[2]	60 inches[2]

1. A tolerance of minus 5/8 inch is permitted.
2. Other car configurations that provide a turning space complying with 304 with the door closed shall be permitted.

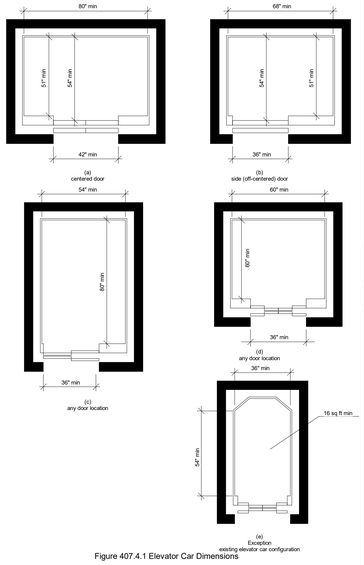

Figure 407.4.1 Elevator Car Dimensions

407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1¼ inch (32 mm) maximum.

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of ½ inch (13 mm) under rated loading to zero loading conditions.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and 309.4.
EXCEPTION: In existing elevators, where a new car operating panel complying with 407.4.6 is provided, existing car operating panels shall not be required to comply with 407.4.6.

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in 308.
EXCEPTIONS: 1. Where the elevator panel serves more than 16 openings and a parallel approach is provided, buttons with floor designations shall be permitted to be 54 inches (1370 mm) maximum above the finish floor.
2. In existing elevators, car control buttons with floor designations shall be permitted to be located 54 inches (1370 mm) maximum above the finish floor where a parallel approach is provided.407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall be raised or flush.
EXCEPTION: In existing elevators, buttons shall be permitted to be recessed.

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm) minimum above the finish floor.

407.4.6.4.2 Location. Emergency controls, including the emergency alarm, shall be grouped at the bottom of the panel.

407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2.

407.4.7.1.2 Location. Raised character and braille designations shall be placed immediately to the left of the control button to which the designations apply.
EXCEPTION: Where space on an existing car operating panel precludes tactile markings to the left of the controls, markings shall be placed as near to the control as possible.

407.4.7.2 Keypads. Keypads shall be identified by characters complying with 703.5 and shall be centered on the corresponding keypad button. The number five key shall have a single raised dot. The dot shall be 0.118 inch (3 mm) to 0.120 inch (3.05 mm) base diameter and in other aspects comply with Table 703.3.1.

407.4.8 Car Position Indicators. Audible and visible car position indicators shall be provided in elevator cars.

407.4.8.1 Visible Indicators. Visible indicators shall comply with 407.4.8.1.

407.4.8.1.1 Size. Characters shall be ½ inch (13 mm) high minimum.

407.4.8.1.2 Location. Indicators shall be located above the car control panel or above the door.

407.4.8.1.3 Floor Arrival. As the car passes a floor and when a car stops at a floor served by the elevator, the corresponding character shall illuminate.
EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.4.8.1.3 provided that the visible indicators extinguish when the call has been answered.

407.4.8.1.4 Destination Indicator. In destination-oriented elevators, a display shall be provided in the car with visible indicators to show car destinations.

410-Platform Lifts

410.1 General. Platform lifts shall comply with ASME A18.1 (1999 edition or 2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift.

410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with 302 and 303.

410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with 305.

410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1¼ inch (32 mm) maximum.

410.5 Operable Parts. Controls for platform lifts shall comply with 309.

410.6 Doors and Gates. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches (815 mm) minimum. Side doors and gates shall provide a clear width 42 inches (1065 mm) minimum.
EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

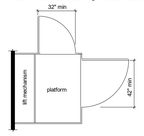

Figure 410.6 Platform Lift Doors and Gates

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

502-Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.
EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.
EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

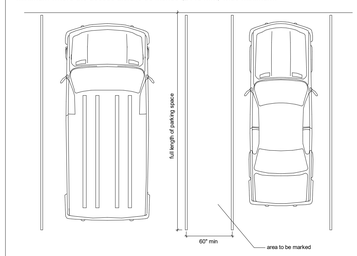

Figure 502.2 Vehicle Parking Spaces

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

504-Stairways

504.1 General. Stairs shall comply with 504.

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted.
EXCEPTION: Treads shall be permitted to have a slope not steeper than 1:48.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be ½ inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1½ inches (38 mm) maximum over the tread below.

Figure 504.5 Stair Nosings

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505-Railings

505.1 General. Handrails provided along walking surfaces complying with 403, required at rampscomplying with 405, and required at stairs complying with 504 shall comply with 505.

Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.8) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

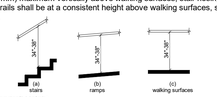

Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 2 1/4 inches (57 mm) minimum.

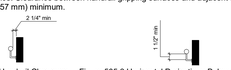

Figure 505.5 Handrail Clearance

Figure 505.6 Horizontal Projections Below Gripping Surface

505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

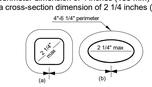

Figure 505.7.2 Handrail Non-Circular Cross Section

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

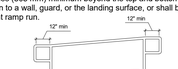

Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

Figure 505.10.2 Top Handrail Extension at Stairs

Figure 505.10.3 Bottom Handrail Extension at Stairs

Note: x = tread depth

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

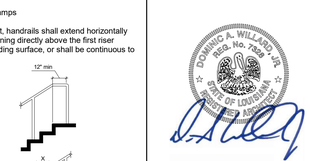
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS



WDG Project No: 2024002

SHEET NAME

ADA REFERENCE GUIDELINES

SHEET NO. G101

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602-Drinking Fountains

602.1 General. Drinking fountains shall comply with 307 and 602.

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.
EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3½ inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

Figure 602.5 Drinking Fountain Spout Location

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

603-Toilet and Bathing Rooms

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.
Advisory 603.3 Mirrors. A single full-length mirror can accommodate a greater number of people, including children. In order for mirrors to be usable by people who are ambulatory and people who use wheelchairs, the top edge of mirrors should be 74 inches (1880 mm) minimum from the floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604-Water Closets and Toilet Compartments

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8.
EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

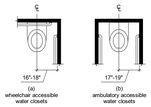


Figure 604.2 Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.
EXCEPTION: In residential dwelling units, a lavatory complying with 606 shall be permitted on the rear wall 18 inches (455 mm) minimum from the water closet centerline where the clearance at the water closet is 66 inches (1675 mm) minimum measured perpendicular from the rear wall.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.
EXCEPTIONS: 1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.
2. In residential dwelling units, the height of water closets shall be permitted to be 15 inches (380 mm) minimum and 19 inches (485 mm) maximum above the finish floor measured to the top of the seat.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.
EXCEPTIONS: 1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
2. In residential dwelling units, grab bars shall not be required to be installed in toilet or bathrooms provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
3. In detention or correction facilities, grab bars shall not be required to be installed in housing or holding cells that are specially designed without protrusions for purposes of suicide prevention.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

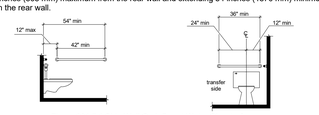


Figure 604.5.1 Side Wall Grab Bar at Water Closets &
Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.
EXCEPTIONS: 1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.
Advisory 604.7 Dispensers. If toilet paper dispensers are installed above the side wall grab bar, the outlet of the toilet paper dispenser must be 48 inches (1220 mm) maximum above the finish floor and the top of the gripping surface of the grab bar must be 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

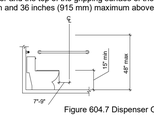


Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

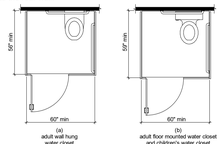


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

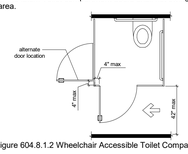


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.
EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

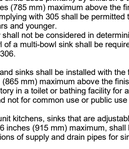


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1½ inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

605-Urinals

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13½ inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

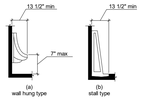


Figure 605.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606-Lavatories and Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.
EXCEPTIONS: 1. A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.
2. A lavatory in a toilet room or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance complying with 306.
3. In residential dwelling units, cabinetry shall be permitted under lavatories and kitchen sinks provided that all of the following conditions are met:
(a) the cabinetry can be removed without removal or replacement of the fixture;
(b) the finish floor extends under the cabinetry; and
(c) the walls behind and surrounding the cabinetry are finished.
4. A knee clearance of 24 inches (610 mm) minimum above the finish floor or ground shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor or ground.
5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily by children 5 years and younger.
6. The dip of the overflow shall not be considered in determining knee and toe clearances.
7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with 306.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.
EXCEPTIONS: 1. A lavatory in a toilet or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 606.3.
2. In residential dwelling unit kitchens, sinks that are adjustable to variable heights, 29 inches (735 mm) minimum and 36 inches (915 mm) maximum, shall be permitted where rough-in plumbing permits connections of supply and drain pipes for sinks mounted at the height of 29 inches (735 mm).

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

607-Bathtubs

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

608-Shower Compartments

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of
opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the showercompartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.

608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.
EXCEPTION: A lavatory complying with 606 shall be permitted on one 30 inch (760 mm) wide minimum side of the clearance provided that it is not on the side of the clearance adjacent to the controls or, where provided, not on the side of the clearance adjacent to the shower seat.

608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

609-Grab Bars

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

703-Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

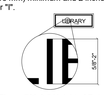


Figure 703.2.5 Height of Raised Characters

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

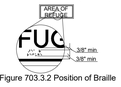


Figure 703.3.2 Position of Braille

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

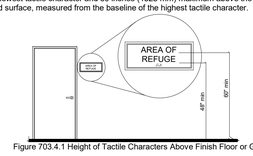


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

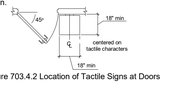


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

705-Detectable Warnings

705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

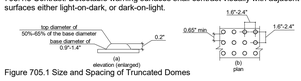


Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

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4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOUGLAS A. WILLARD, JR. REG. No. 34,751 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

ADA REFERENCE GUIDELINES

SHEET NO. G102

PROJECT DATA AND CODE SUMMARY

PROJECT ADDRESS
STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PROJECT SUMMARY
THE SCOPE OF THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW STEM MULTI-PURPOSE FACILITY WHICH WILL HOUSE THE OPERATIONS OF STEM NOLA AND PROVIDE OUTSIDE THE CLASSROOM ENRICHMENT EDUCATION TO STUDENTS IN GRADES K-12.

APPLICABLE CODES AND STANDARDS
BUILDING CODE
- LOUISIANA STATE UNIFORM CONSTRUCTION CODE (LSUCC)
  - 2021 INTERNATIONAL BUILDING CODE (IBC) (EXCLUDING PART 1 & CHAPTERS 11 & 27)
  - 2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC) (EXCLUDING PART 1)
  - 2021 INTERNATIONAL RESIDENTIAL CODE (IRC)
  - 2021 INTERNATIONAL MECHANICAL CODE (IMC)
  - 2021 INTERNATIONAL PLUMBING CODE (IPC)
  - 2021 INTERNATIONAL FUEL GAS CODE (IFGC)
  - 2020 NATIONAL ELECTRIC CODE (NEC)
  - 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

FIRE CODE & LIFE SAFETY
- NFPA 101 LIFE SAFETY CODE, 2015 EDITION

ACCESSIBILITY CODE
- AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT (ADA-ABA) ACCESSIBILITY GUIDELINES, 2010 STANDARD

OCCUPANCY CLASSIFICATION
IBC: BUSINESS (GROUP B)
NFPA: BUSINESS

CONSTRUCTION TYPE
IBC: TYPE II-B
NFPA: TYPE II (000)

SPRINKLERED: YES (NFPA 13)

BUILDING HEIGHTS AND AREAS:

MAX. NUMBER OF FLOORS	2 STORIES
MAX. HEIGHT	75 FEET (IBC TABLE 503)
MAX. FLOOR AREA	37,500 SF/FLOOR (IBC TABLE 503)
FLOORS PROPOSED	2 STORIES
HEIGHT PROPOSED	38'-9"
FLOOR AREA PROPOSED	

FIRST FLOOR	*13,807 SF*
SECOND FLOOR	*12,318 SF*
TOTAL	26,125 SF

OPEN SPACE: N/A

BASE FLOOD ELEVATION: RE: CIVIL

MINIMUM FLOOR ELEVATION: RE: CIVIL

FIRE-RESISTANCE RATING REQUIREMENTS (IBC 601)

CONSTRUCTION TYPE	II-B
PRIMARY STRUCTURAL FRAME	0-HR
BEARING WALLS	
EXTERIOR	0-HR (IBC 704.10, 705.5)
INTERIOR	0-HR
NONBEARING WALLS & PARTITIONS	
EXTERIOR	0-HR (IBC 705.5)
INTERIOR	0-HR
FLOOR CONSTRUCTION	0-HR
ROOF CONSTRUCTION	0-HR
SHAFT ENCLOSURES	1-HR (IBC 713.4)
MACHINE ROOM	0-HR (IBC 3005.4)
EXIT STAIRWAY	1-HR (IBC 3006.4)
FIRE PUMP	1-HR
RISK CATEGORY:	II

MINIMUM NUMBER OF EXITS / STORY (IBC 1006.3.3)

OCCUPANT LOAD OF 1-500	2 EXITS REQUIRED
OCCUPANT LOAD OF 501-1,000	3 EXITS REQUIRED
OCCUPANT LOAD OF 1,000+	4 EXITS REQUIRED

IECC PRESCRIPTIVE REQUIREMENTS

CLIMATE ZONE	2A HOT-HUMID
ROOF	R-25 CI
WALLS (ABOVE GRADE)	R-13 + R-7.5 CI
WALLS (BELOW GRADE)	NO REQUIREMENTS
FLOOR (SLAB ON GRADE)	NO REQUIREMENTS
FLOOR (OVER UNCONDITIONED SPACE)	R-10 CI
GLAZING (VERTICAL WINDOWS)	U-FACTOR = ≤ 0.40, SHGC = ≤ 0.25
SKYLIGHTS	U-FACTOR = ≤ 0.65, SHGC = ≤ 0.25

PLUMBING FIXTURE COUNTS
BUSINESS OCCUPANCY:
WATER CLOSETS: 1 PER 25 (1-50), THEN 1 PER 50
1+(169-50)/50 = 1+2.38 = **4 EA.** (MALE & FEMALE) = **8 TOTAL**
LAVATORIES: 1 PER 40 (1-80), THEN 1 PER 80
1+(169-80)/80 = 1+1.11 = **3 EA.** (MALE & FEMALE) = **6 TOTAL**
DRINKING FOUNTAINS: 1 PER 100 TOTAL OCCUPANTS
337/100 = 3.37 = **4 TOTAL**

OCCUPANT LOAD SCHEDULE

LEVEL	ROOM NUMBER	ROOM NAME	AREA	IBC CLASSIFICATION	AREA PER OCCUPANT-IBC	IBC OCCUPANTS	NFPA CLASSIFICATION	AREA PER OCCUPANT-NFPA	NFPA OCCUPANTS
FIRST FLOOR									
FIRST FLOOR	100	LOBBY	2703 SF	BUSINESS AREAS	100 SF	28	Business Use (other than air traffic control tower observation levels)	100 SF	27
FIRST FLOOR	101	FLEX SPACE	586 SF	BUSINESS AREAS	100 SF	6	Business Use (other than air traffic control tower observation levels)	100 SF	6
FIRST FLOOR	102	CORRIDOR	916 SF	BUSINESS AREAS	100 SF	10	Business Use (other than air traffic control tower observation levels)	100 SF	9
FIRST FLOOR	103	CO-WORKING SPACE 1	378 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	4
FIRST FLOOR	104	CO-WORKING SPACE 2	166 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
FIRST FLOOR	105	WOMEN'S RESTROOM	265 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
FIRST FLOOR	106	MEN'S RESTROOM	265 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
FIRST FLOOR	107	JAN. CLO.	46 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
FIRST FLOOR	108	ELECT. RM.	64 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	1
FIRST FLOOR	109	IT RM.	51 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	1
FIRST FLOOR	110	SPRINKLER RM.	100 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	1
FIRST FLOOR	111	STORAGE	321 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	3
FIRST FLOOR	112	LOADING DOCK	373 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	4
FIRST FLOOR	113	WET LAB	1043 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	21	Educational Use - Shops, laboratories, vocational rooms	50 SF	21
FIRST FLOOR	114	CRAFT LAB	690 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	14	Educational Use - Shops, laboratories, vocational rooms	50 SF	14
FIRST FLOOR	115	CRAFT STOR.	100 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	1	Storage Use - In other than storage and mercantile occupancies	500 SF	0
FIRST FLOOR	116	CONF. RM. 1	221 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	2
FIRST FLOOR	117	BREAK ROOM	213 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	2
FIRST FLOOR	118	SHOP STOR.	104 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	1	Storage Use - In other than storage and mercantile occupancies	500 SF	0
FIRST FLOOR	119	SHOP OFFICE	92 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	1
FIRST FLOOR	120	METAL SHOP	276 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	6	Educational Use - Shops, laboratories, vocational rooms	50 SF	6
FIRST FLOOR	121	WOOD SHOP	649 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	13	Educational Use - Shops, laboratories, vocational rooms	50 SF	13
FIRST FLOOR	122	MAKER SPACE + PROTOTYPE	1033 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	21	Educational Use - Shops, laboratories, vocational rooms	50 SF	21
FIRST FLOOR	123	COMPUTER/ ROBOTICS	1043 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	21	Educational Use - Shops, laboratories, vocational rooms	50 SF	21
FIRST FLOOR	STR 1	STAIR 1	192 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
FIRST FLOOR	STR 2	STAIR 2	196 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
			12088 SF			177			167
SECOND FLOOR									
SECOND FLOOR	200	COLLABORATIVE STAIR	698 SF	BUSINESS AREAS	100 SF	7	Business Use (other than air traffic control tower observation levels)	100 SF	7
SECOND FLOOR	201	FLEX SPACE	1091 SF	BUSINESS AREAS	100 SF	11	Business Use (other than air traffic control tower observation levels)	100 SF	11
SECOND FLOOR	202	WOMEN'S RESTROOM	265 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	203	MEN'S RESTROOM	265 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	204	MULTI-PURPOSE RM	969 SF	ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED (TABLES AND CHAIRS)	15 SF	65	Assembly Use - Less concentrated use, without fixed seating	15 SF	65
SECOND FLOOR	206	ELECT. RM.	42 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	207	IT RM.	42 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	208	DIGITAL MEDIA / GAMING	1990 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	40	Educational Use - Shops, laboratories, vocational rooms	50 SF	40
SECOND FLOOR	209	DIGITAL MEDIA / GAMING STORAGE	122 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	1	Storage Use - In other than storage and mercantile occupancies	500 SF	0
SECOND FLOOR	210	PRIVATE GROUP POD	280 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	211	BREAK RM	444 SF	BUSINESS AREAS	100 SF	5	Business Use (other than air traffic control tower observation levels)	100 SF	4
SECOND FLOOR	212	CONF. RM 3	368 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	4
SECOND FLOOR	213	OPEN OFFICE	1221 SF	BUSINESS AREAS	100 SF	13	Business Use (other than air traffic control tower observation levels)	100 SF	12
SECOND FLOOR	214	VESTIBULE	40 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	215	TOILET RM	46 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	216	OFFICE	294 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	2
SECOND FLOOR	217	OFFICE	247 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	2
SECOND FLOOR	218	EXECUTIVE OFFICE	389 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	4
SECOND FLOOR	219	PRIVATE TOILET RM	67 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	1
SECOND FLOOR	220	OFFICE STORAGE	29 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	221	OFFICE	191 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
SECOND FLOOR	222	OFFICE	185 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
SECOND FLOOR	223	CONF. RM. 2	200 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
SECOND FLOOR	224	OFFICE CORRIDOR	254 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	225	CO-WORKING SPACE 5	316 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	226	CO-WORKING SPACE 4	310 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	227	CO-WORKING SPACE 3	303 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	228	PHONEBOOTH	30 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	228	CLOSET	26 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	229	CORRIDOR	828 SF	BUSINESS AREAS	100 SF	9	Business Use (other than air traffic control tower observation levels)	100 SF	8
			11465 SF			203			189
GRAND TOTAL			23552 SF			380			355

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4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

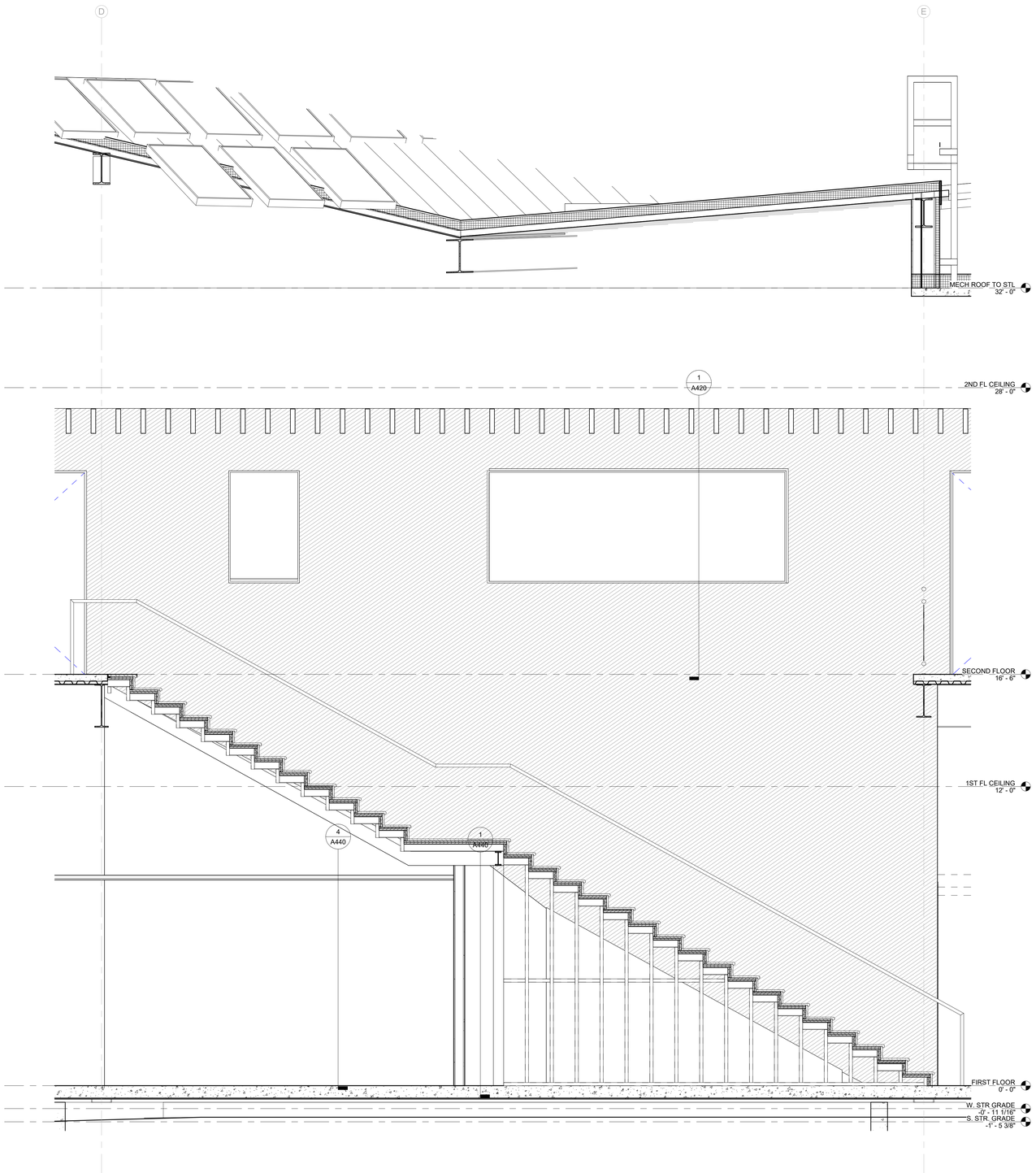
REVISIONS

DOMINIC A. WILLARD, AIA
REG. NO. 36178
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: 2024002

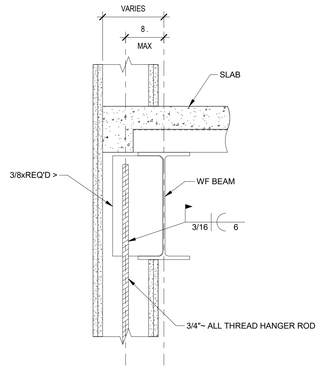
SHEET NAME
CODE SUMMARY & INFORMATION

SHEET NO.
G110

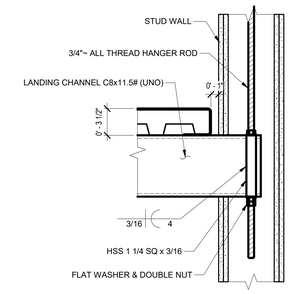


1 A320 A324 SECTION @ COLLABORATIVE STAIR

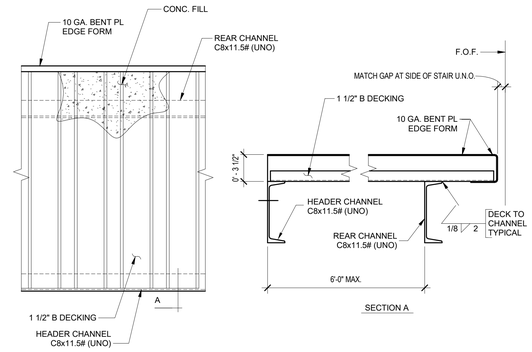
1/2" = 1'-0"



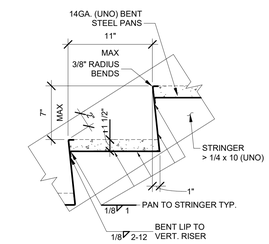
ST-001 HANGER ROD CONNECTION FROM SIDE OF STRUCTURAL STEEL
1.SEE ST-003 FOR LANDING CONSTRUCTION



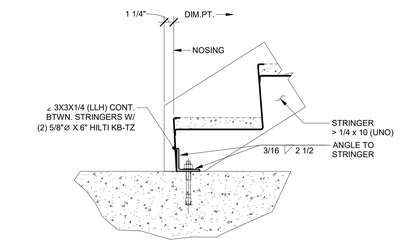
ST-002 HANGER ROD CONNECTION
1.SEE ST-003 FOR LANDING CONSTRUCTION



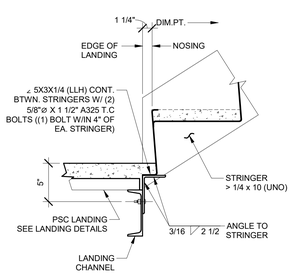
ST-003 LANDING CONSTRUCTION



ST-004 TREAD/ RISER CONSTRUCTION

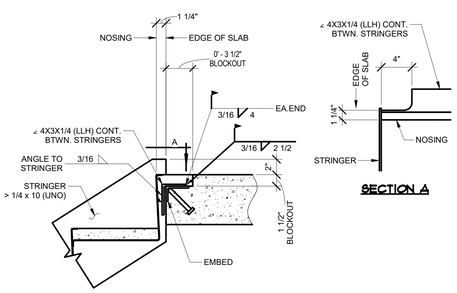


ST-005 CONNECTION TO CONCRETE SLAB WITH ANCHOR
SEE ST-004 FOR TREAD / RISER CONSTRUCTION



ST-006 STANDARD BOTTOM CONNECTION TO STEEL LANDING

01. SEE ST-004 FOR TREAD / RISER CONSTRUCTION
02. SEE ST-003 FOR LANDING CONSTRUCTION



ST-007 STANDARD TOP CONNECTION TO EMBED

01. SEE ST-004 FOR TREAD / RISER CONSTRUCTION

2 A324 Stair Details

1 1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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REVISIONS

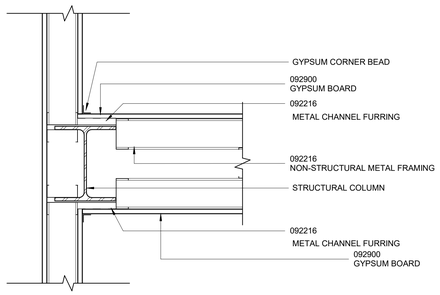
DOMINIC A. WILLARD, III
LIC. No. 37908
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

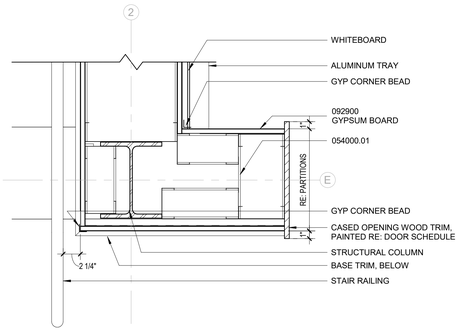
ENLARGED VERTICAL CIRCULATION DETAILS

SHEET NO. A324



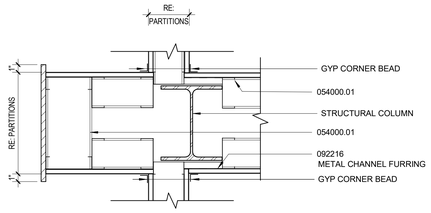
1 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



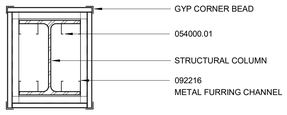
2 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



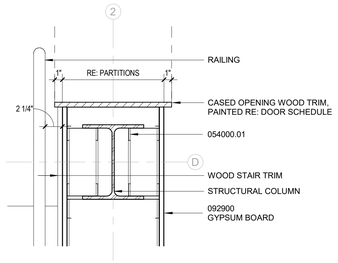
3 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



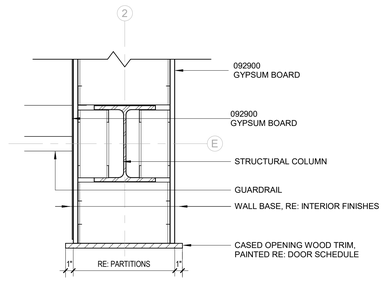
5 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



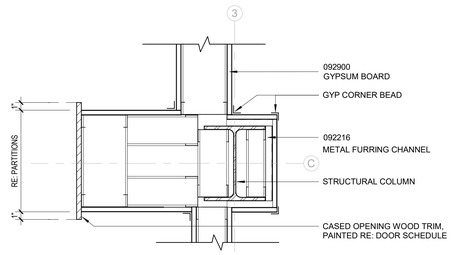
6 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



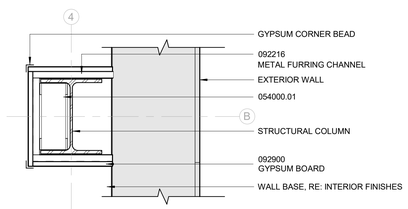
7 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



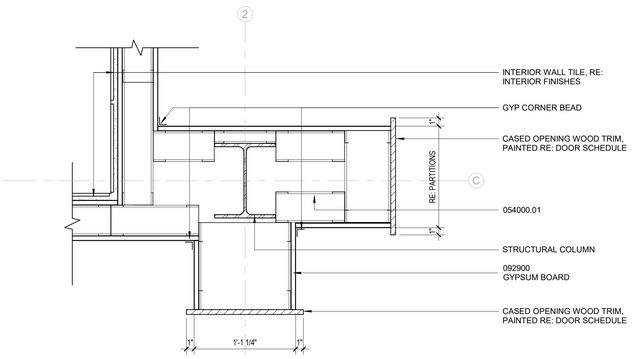
8 A211 | A410 DETAIL - FURROUT AROUND COLUMN W/ CASEWORK

1 1/2" = 1'-0"



9 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



10 A211 | A410 DETAIL - FURROUT AROUND COLUMN W/ CASEWORK

1 1/2" = 1'-0"

WILLARD DESIGN GROUP
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REVISIONS

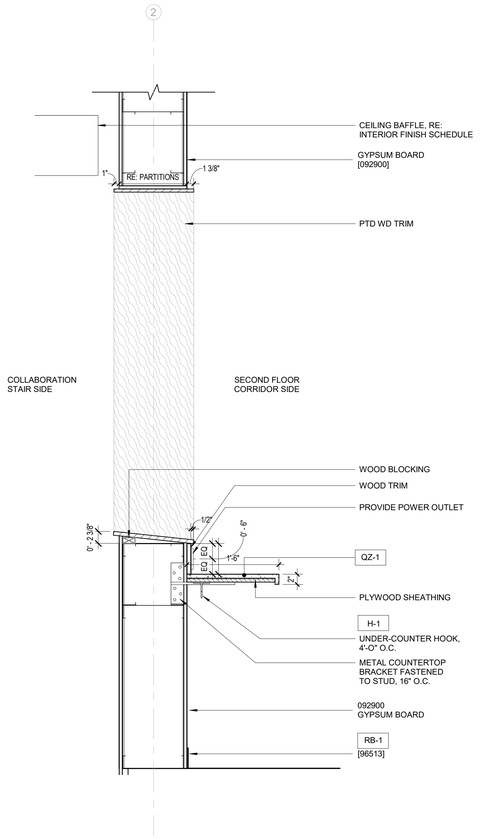
WDG Project No: 2024002

SHEET NAME

INTERIOR PLAN DETAILS

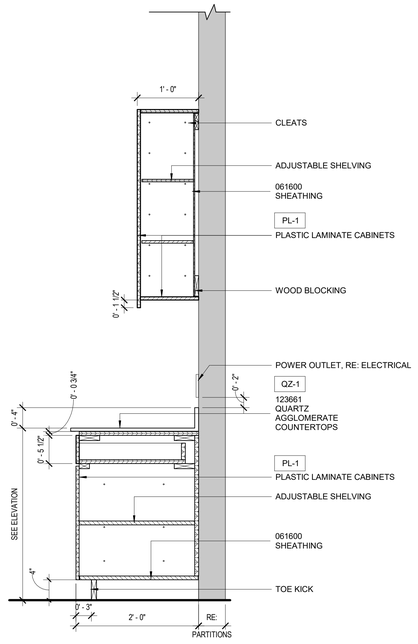
SHEET NO. A410

studio kiro



1 A211 | A420 SECTION THRU WALL OPENING

1" = 1'-0"



2 A702 | A420 SECTION THRU KITCHENETTE

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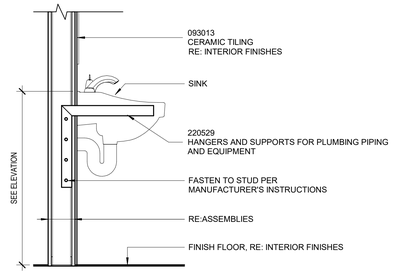
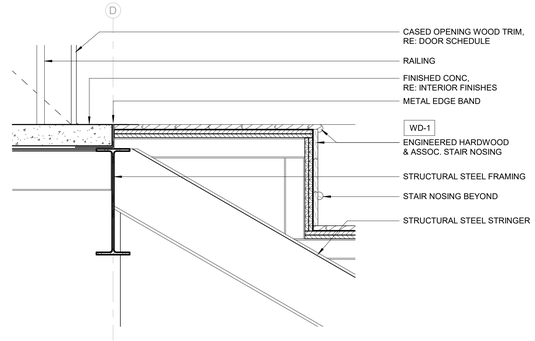


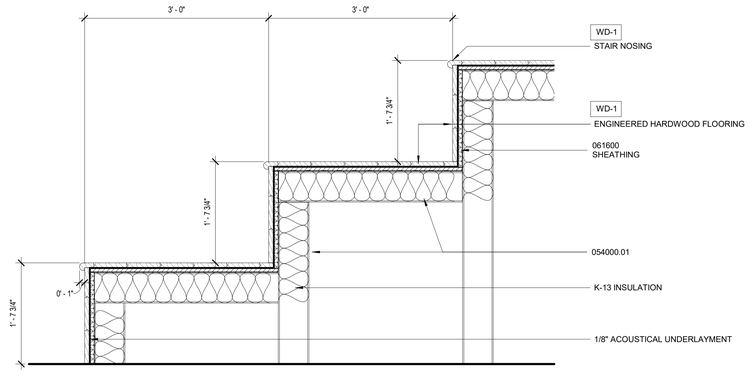
3 A300 | A420 SECTION THRU BATHROOM SINK

1" = 1'-0"



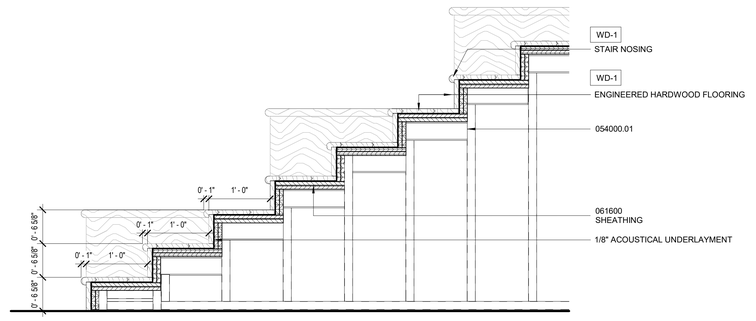
4 A322 | A420 SECTION THRU COLLABORATIVE STAIR

1" = 1'-0"



5 A211 | A420 COLLABORATIVE STAIR DETAIL - SEATING

1" = 1'-0"



6 A211 | A420 COLLABORATIVE STAIR SECTION

1" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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REVISIONS

DOMINIC A. WILLARD, JR. Reg. No. 38014 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

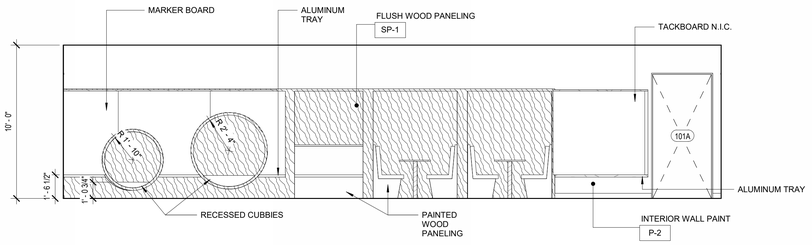
SHEET NAME

INTERIOR SECTION DETAILS

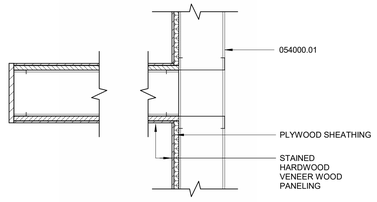
SHEET NO. A420

studio kiro

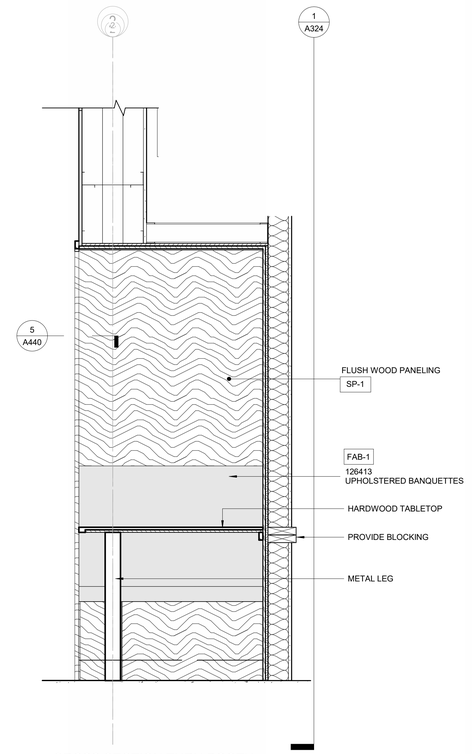
2 A440 MILLWORK AXON



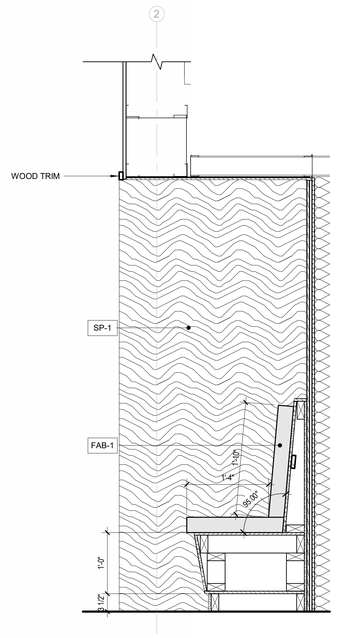
7 A700 A440 ELEVATION - FLEX SPACE BOOTH SEATING
1/4" = 1'-0"



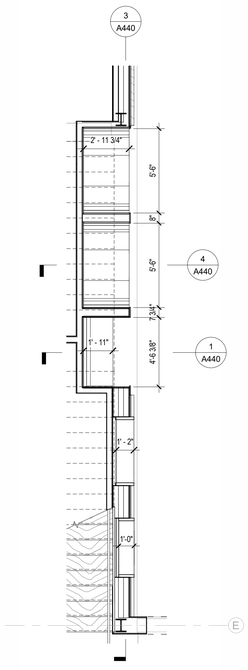
5 A440 A440 PLAN DETAIL AT BOOTH PARTITION
1 1/2" = 1'-0"



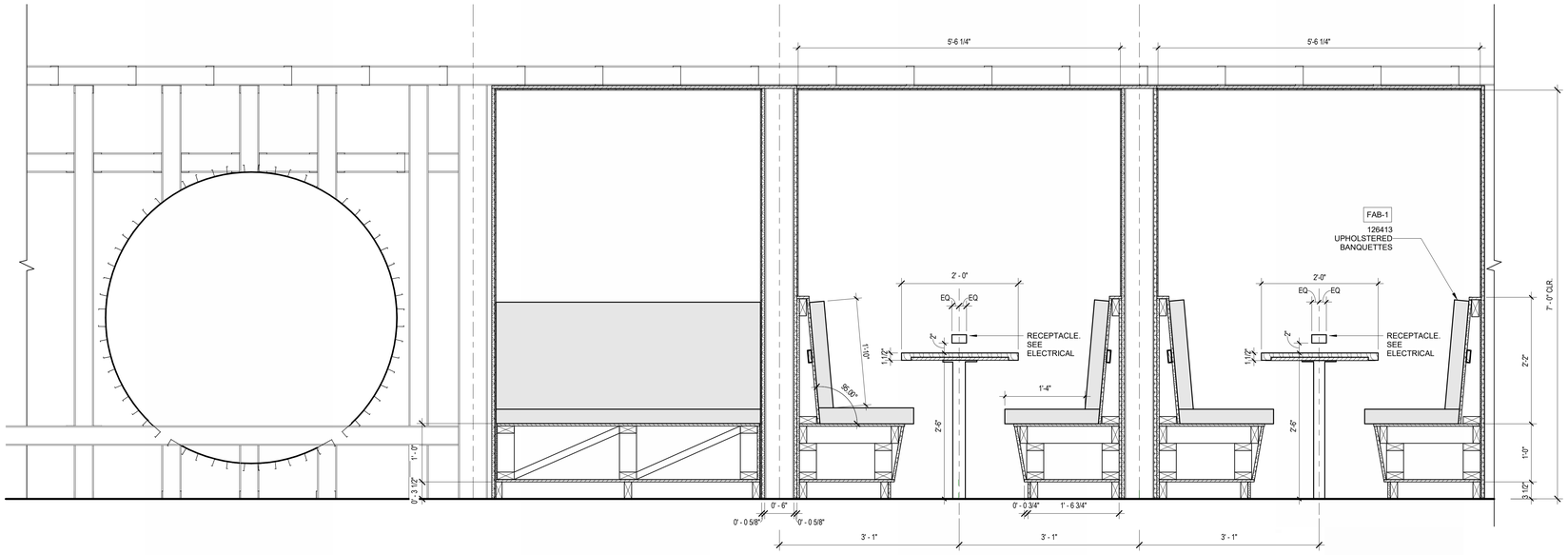
4 A322 A440 CROSS SECTION THRU BOOTH
1" = 1'-0"



1 A322 A440 SECTION THRU BENCH
1" = 1'-0"



6 A211 A440 ENLARGED PLAN - FLEX SPACE BOOTH SEATING
1/4" = 1'-0"



3 A440 A440 SECTION THRU BOOTH
1" = 1'-0"

studio kiro

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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REVISIONS

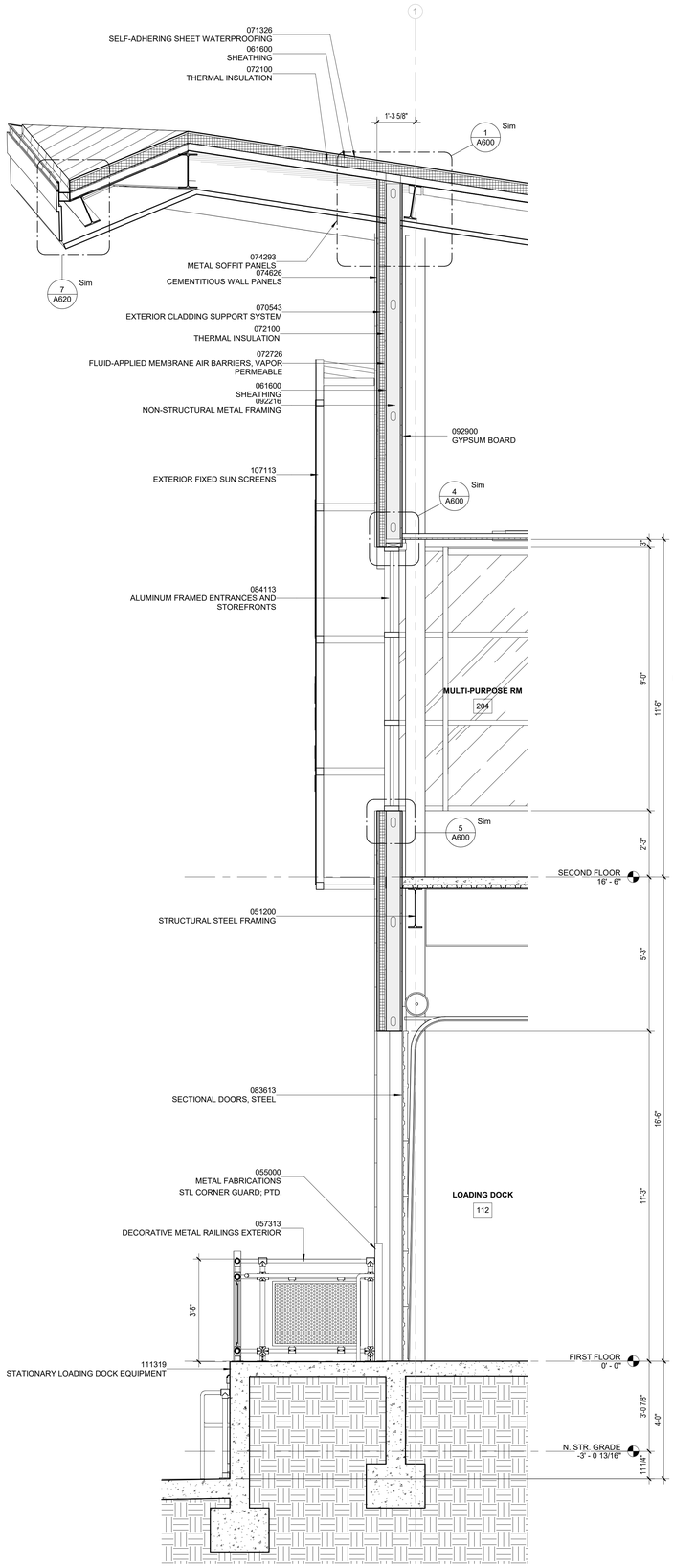
DOMINIC A. WILLARD, VA REG. No. 7529 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

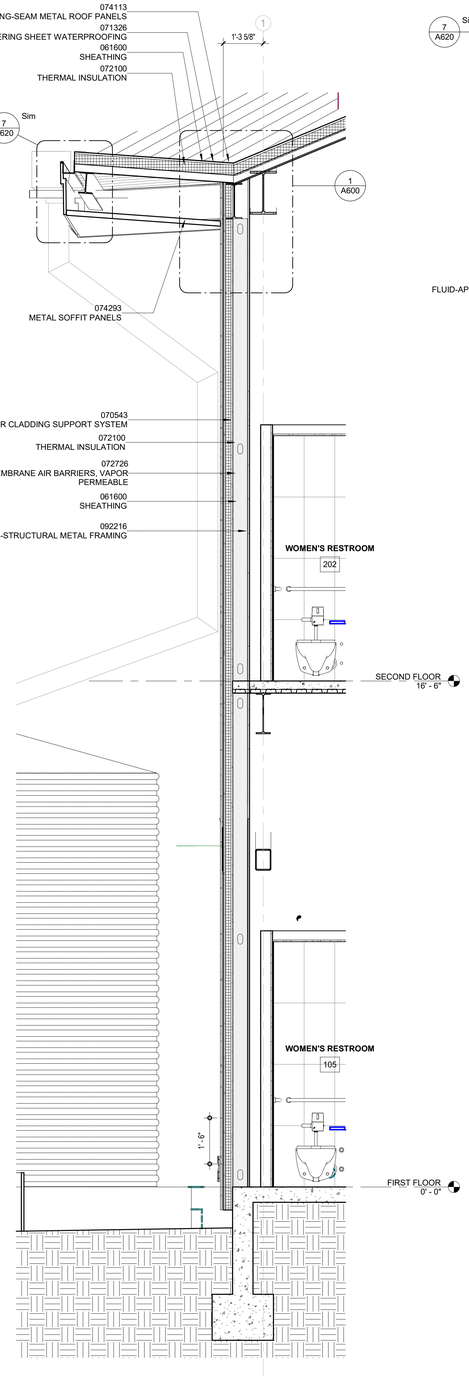
MILLWORK DETAILS

SHEET NO. A440



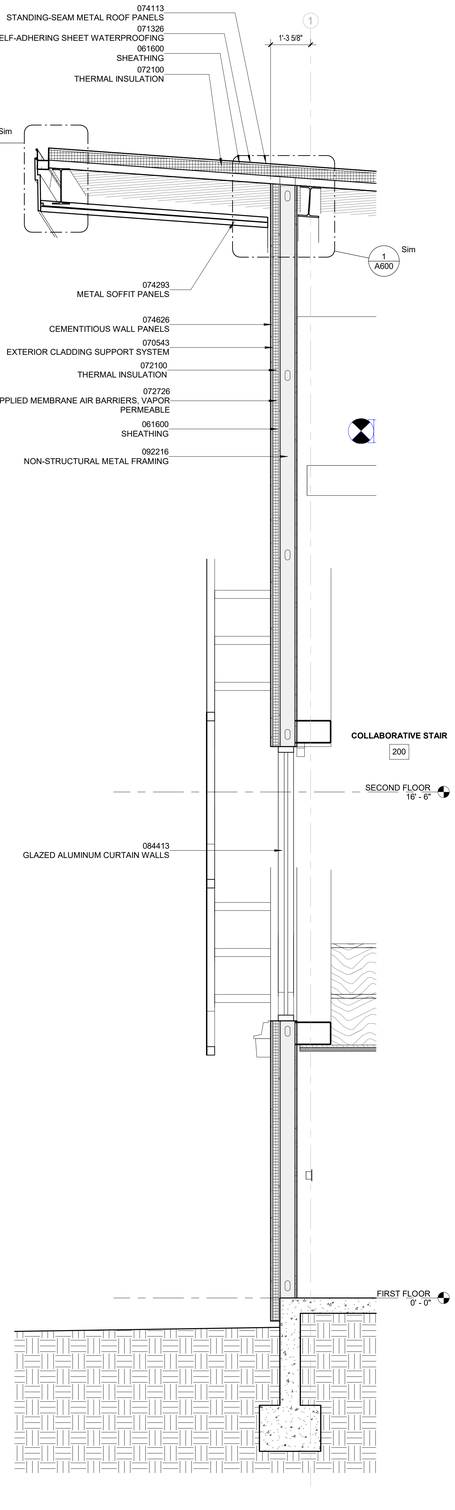
4 A530 A540 WALL SECTION @ WEST WALL - LOADING DOCK

1/2" = 1'-0"



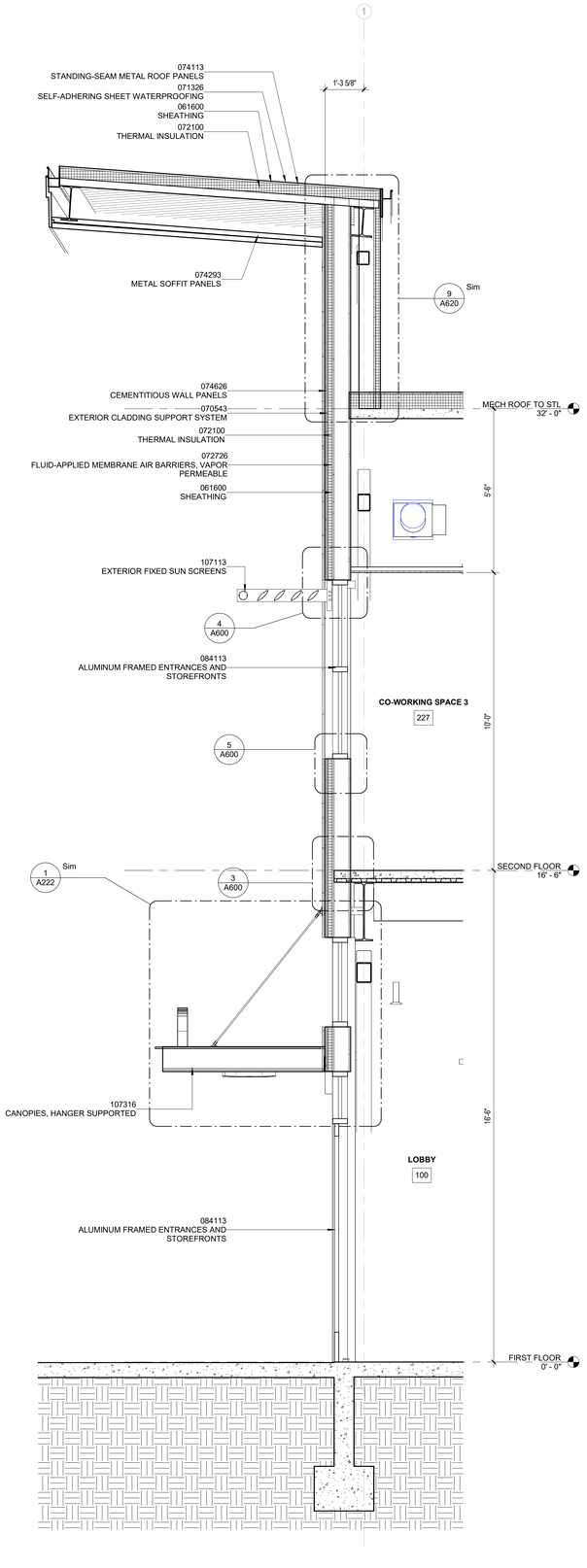
3 A530 A540 WALL SECTION @ WEST WALL - TOILET RMS

1/2" = 1'-0"



2 A530 A540 WALL SECTION @ WEST WALL - COLLAB STAIR

1/2" = 1'-0"



1 A530 A540 WALL SECTION @ WEST WALL - MAIN ENTRANCE

1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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REVISIONS

DOMINIC A. WILLARD JR. REG. No. 7529 STATE OF LOUISIANA REGISTERED ARCHITECT

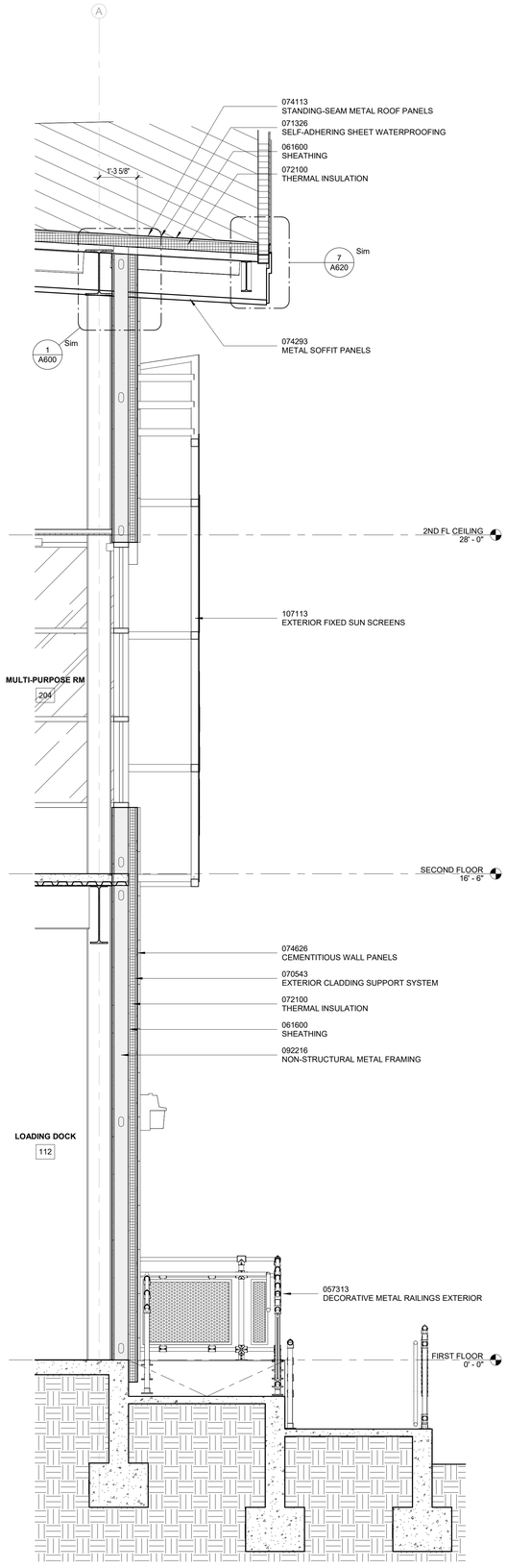
WDG Project No: 2024002

SHEET NAME

WALL SECTIONS

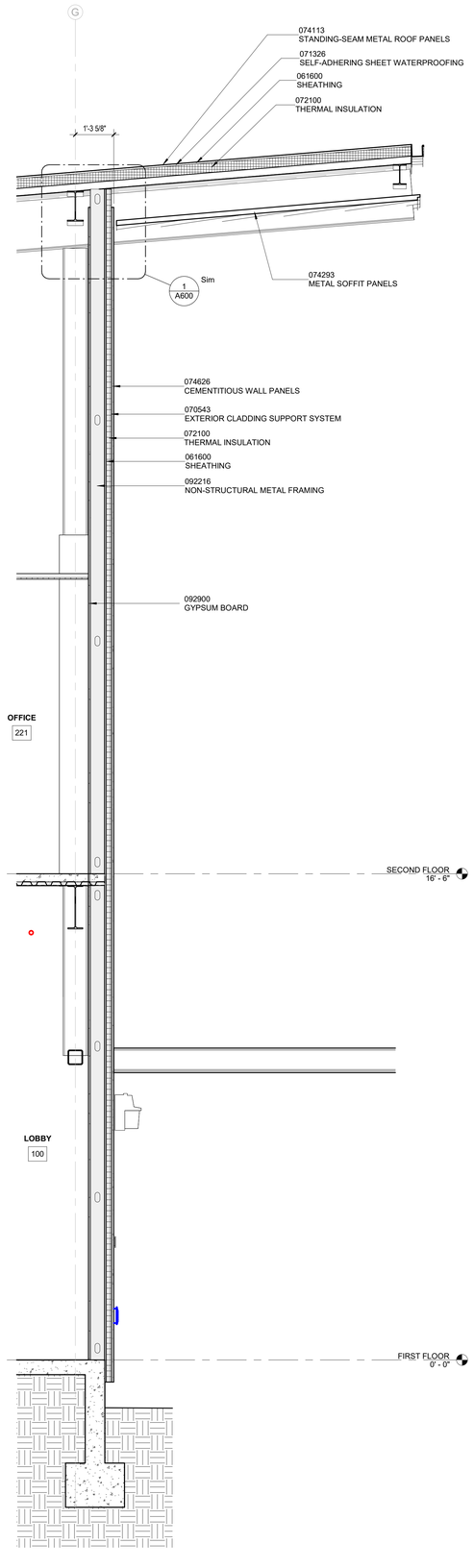
SHEET NO.

A540



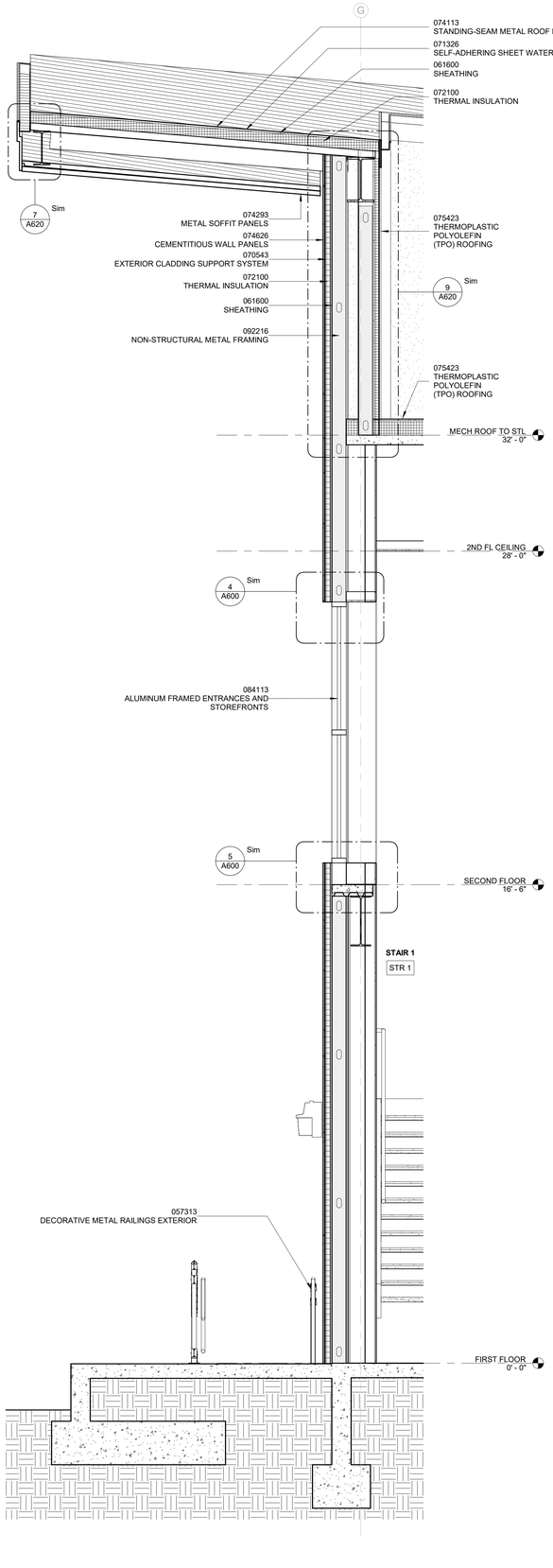
4 A531 A541 WALL SECTION @ NORTH WALL - LOADING DOCK

1/2" = 1'-0"



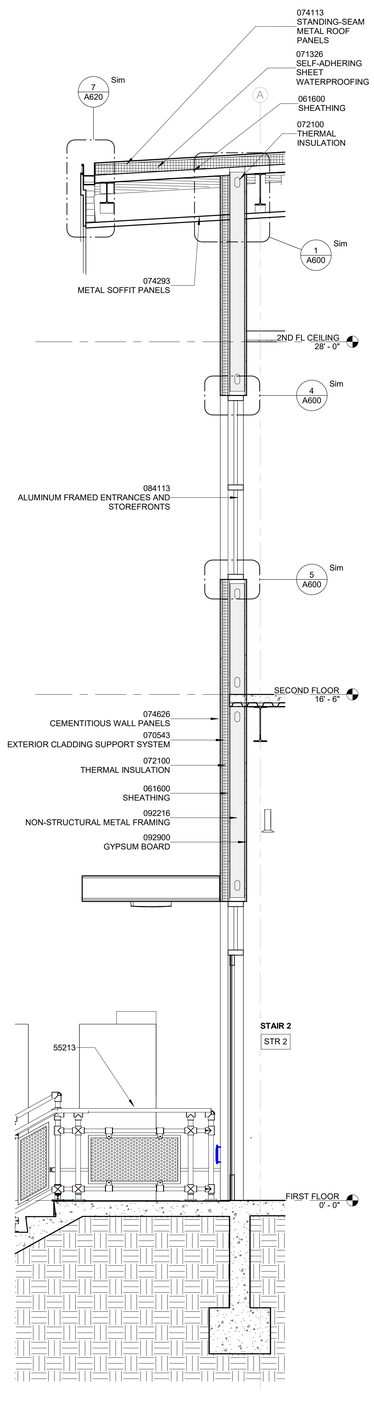
3 A530 A541 WALL SECTION @ NORTH ENTRANCE

1/2" = 1'-0"



2 A531 A541 WALL SECTION @ SOUTH WALL - STAIR 1

1/2" = 1'-0"



1 A530 A541 WALL SECTION @ SOUTH ENTRANCE

1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD #35 REG. No. 7826 STATE OF LOUISIANA

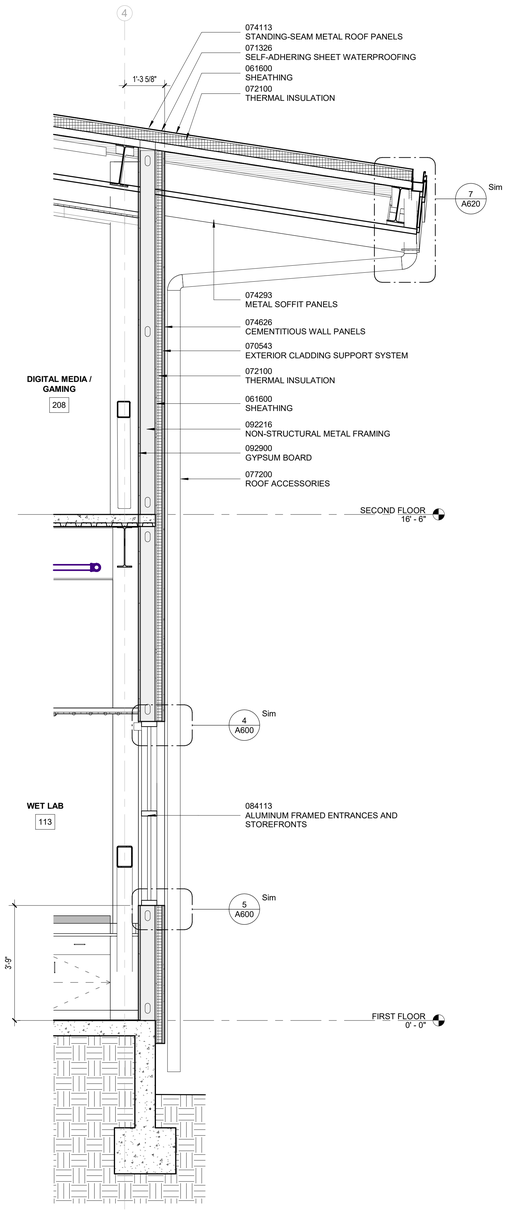
WDG Project No: 2024002

SHEET NAME

WALL SECTIONS

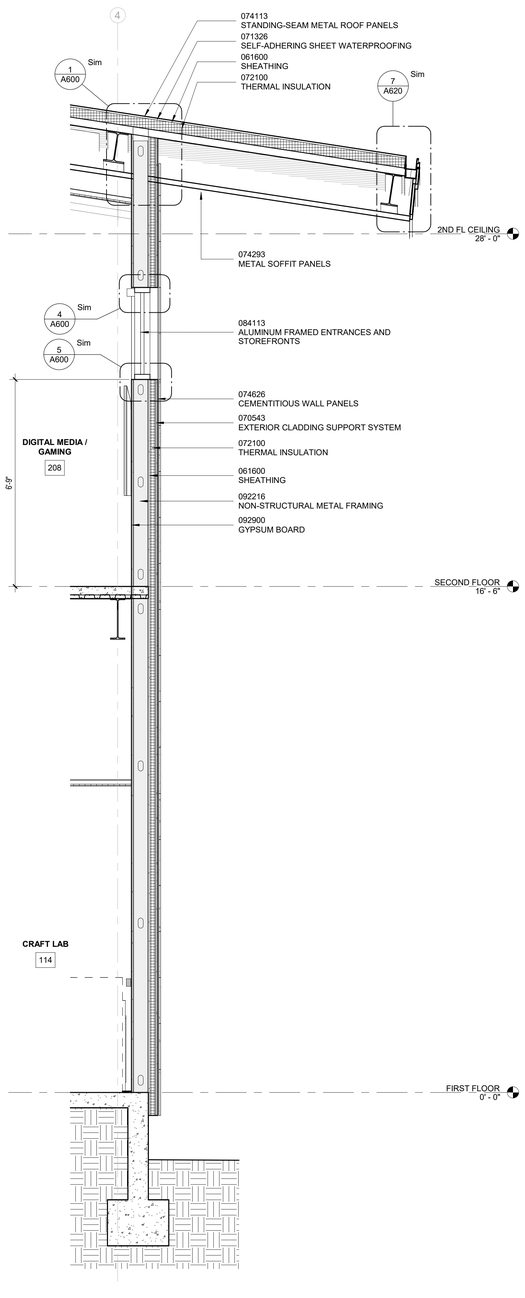
SHEET NO.

A541



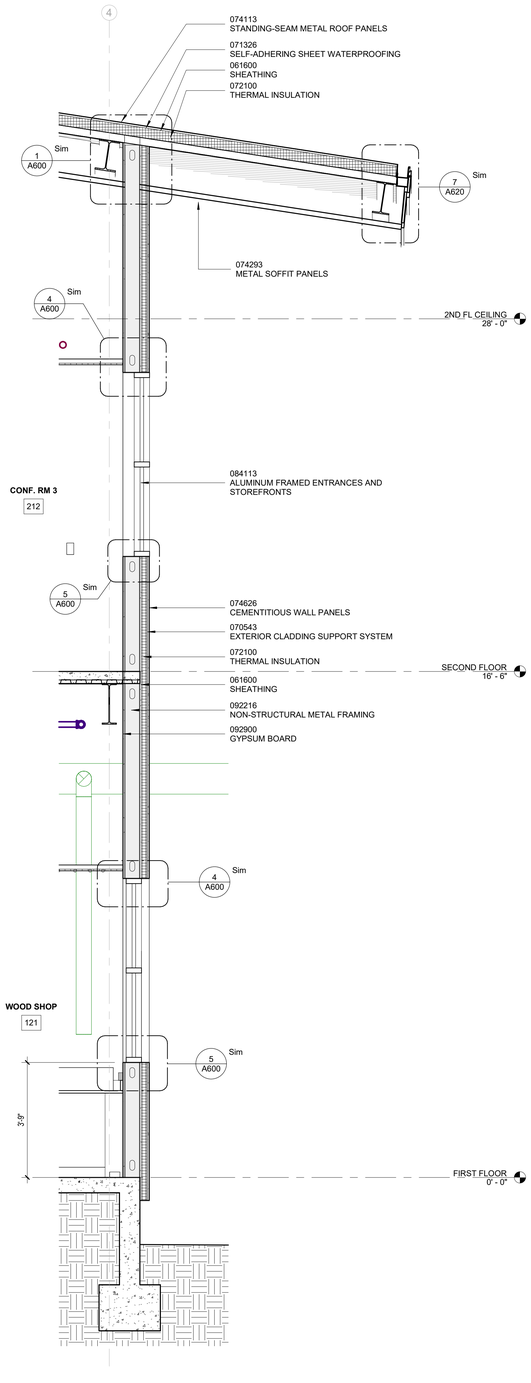
1 A530 A542 WALL SECTION @ EAST WALL - WET LAB

1/2" = 1'-0"



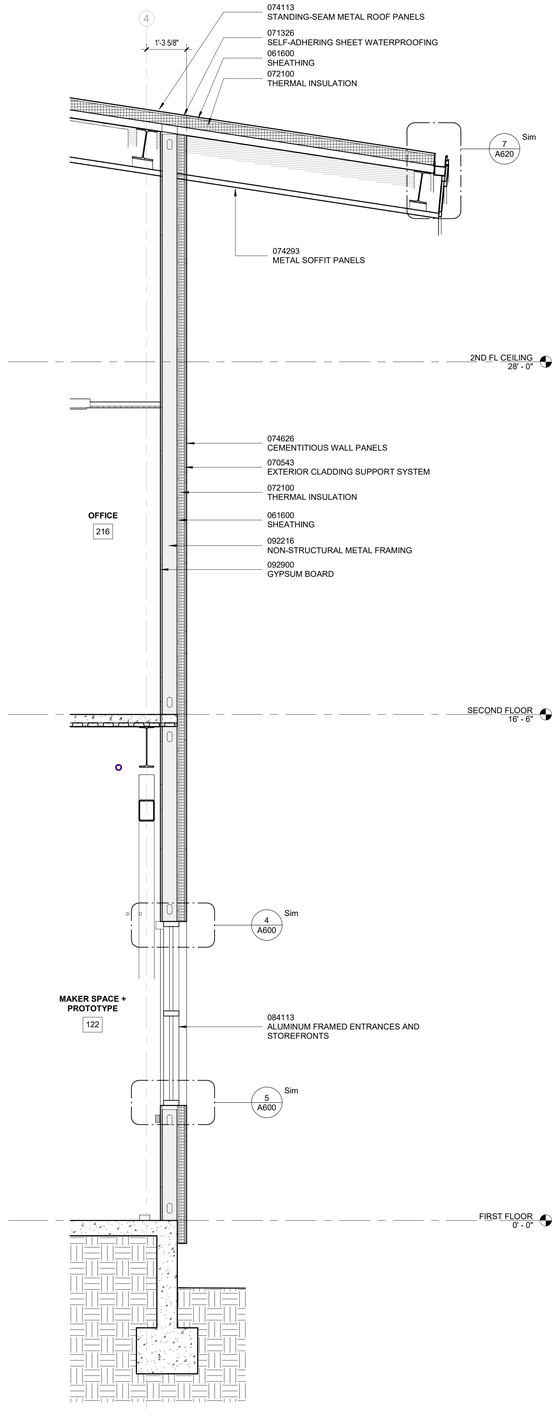
4 A530 A542 WALL SECTION @ EAST WALL - CRAFT LAB

1/2" = 1'-0"



3 A530 A542 WALL SECTION @ EAST WALL - WOODWORKING

1/2" = 1'-0"



2 A530 A542 WALL SECTION @ EAST WALL - MAKER SPC

1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD #38 REG. No. 7329 STATE OF LOUISIANA REGISTERED ARCHITECT

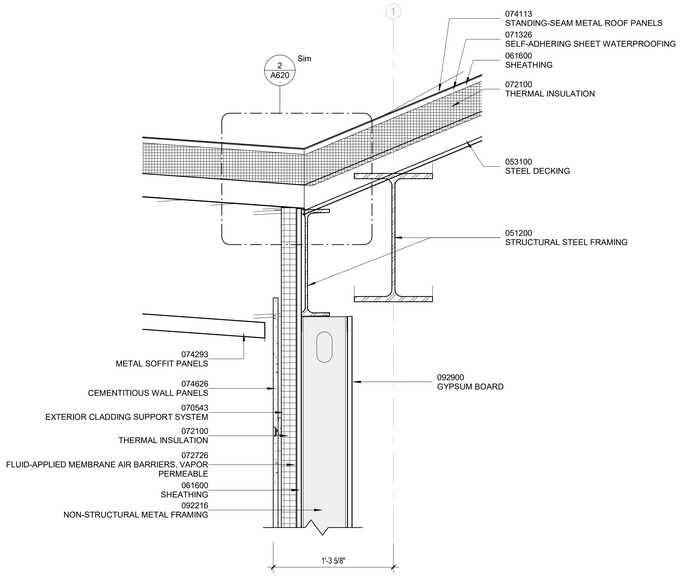
WDG Project No: 2024002

SHEET NAME

WALL SECTIONS

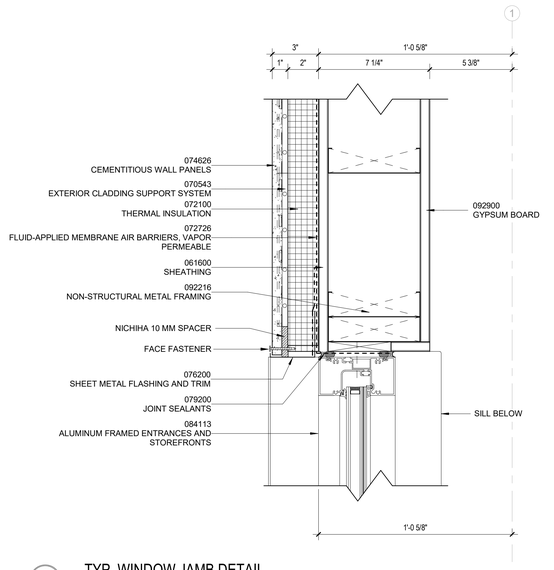
SHEET NO.

A542



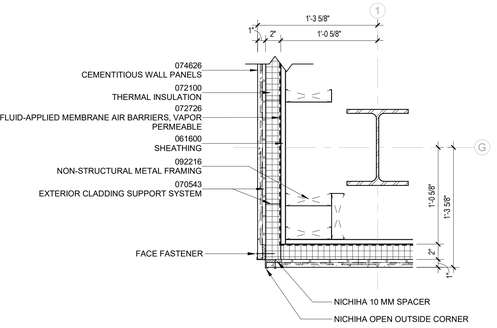
1 A540 | A600 — WALL TO SOFFIT DETAIL

1 1/2" = 1'-0"



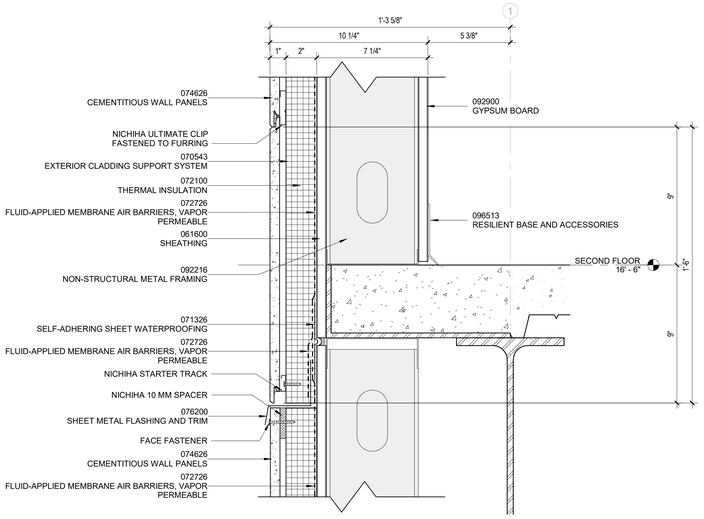
2 A211 | A600 — TYP. WINDOW JAMB DETAIL

3" = 1'-0"



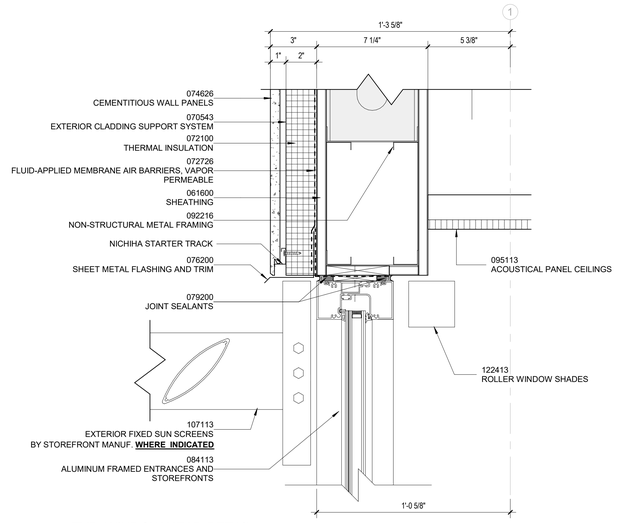
6 A211 | A600 — TYP. EXTERIOR CORNER DETAIL

1 1/2" = 1'-0"



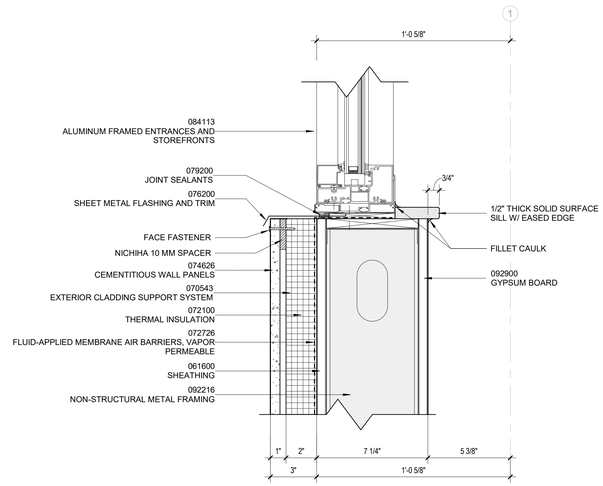
3 A222 | A600 — TYP. DETAIL @ 2ND FL SLAB

3" = 1'-0"



4 A221 | A600 — TYP. WINDOW HEAD DETAIL

3" = 1'-0"



5 A221 | A600 — TYP. WINDOW SILL DETAIL

3" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

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09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD, JR.
REG. No. 36474
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

EXTERIOR DETAILS

SHEET NO.

A600

CITY OF NEW ORLEANS
ONE STOP
PERMITS & LICENSES

Building/Construction Related Permit

Date _____ Received by _____
Tracking Number _____

DEVELOPMENT PLAN AND DESIGN REVIEW APPLICATION

Please submit complete applications via email to CPCinfo@nola.gov. Applicants without the ability to submit via email should contact (504) 658-7300 to make alternative arrangements. Incomplete applications will not be accepted and will be returned to the applicant. Review time depends on the complexity of the project and can take up to 90 days.

Type of application: (•) Design Review ( ) Interim Zoning Districts Appeal ( ) Moratorium Appeal

Property Location 6800 Plaza Drive, New Orleans, LA 70127

APPLICANT INFORMATION

Applicant Identity: ( ) Property Owner (•) Agent

Applicant Name Dominic Willard, Jr.

Applicant Address 4455 Saint Roch Ave

City New Orleans State LA Zip 70122

Applicant Contact Number 504-812-1982 Email daw@willarddesigngroup.com

PROPERTY OWNER INFORMATION

SAME AS ABOVE [ ]

Property Owner Name Center for Innovative Training of Youth, Inc. d/b/a STEM NOLA

Property Owner Address 4910 Drexel Drive

City New Orleans State LA Zip 70122

Property Owner Contact Number 504-920-3335 Email bgrubb@pagellc.net

PROJECT DESCRIPTION

REASON FOR REVIEW (REQUIRED FOR DESIGN REVIEW)

Design Overlay District Review
- [ ] Character Preservation Corridor
- [ ] Riverfront Design Overlay
- [ ] Enhancement Corridor
- [ ] University Area Design Overlay
- [x] Corridor Transformation
- [ ] Greenway Corridor
- [ ] Others as required

Non-Design Overlay District Review
- [ ] Development over 40,000 sf
- [ ] Public Market
- [ ] CBD FAR Bonus
- [ ] Wireless Antenna/Tower
- [ ] Educational Facility

- [ ] Changes to Approved Plans
- [ ] DAC Review of Public Projects
- [ ] Others as Required

ADDITIONAL INFORMATION

Current Use Vacant Land Proposed Use Business Office

Square Number _____ Lot Number 3E-2 Permeable Open Space (sf) 38,372

New Development?	Yes ( )	No ( )	Addition?	Yes ( )	No (•)	Tenant Width		
Existing Structure(s)?	Yes ( )	No (•)	Renovations?	Yes ( )	No (•)	Building Width	78'	
Change in Use?	Yes ( )	No (•)	Existing Signs?	Yes ( )	No (•)	Lot Width (sf)	258'	
New Sign(s)?	Yes (•)	No ( )	Lot Area (sf)	79,520		BuildingArea (sf)	26,125	

CITY OF NEW ORLEANS
ONE STOP
PERMITS & LICENSES

Building/Construction
Related Permit

Date _____ **Received by**_____

Tracking Number _____

DEVELOPMENT PLAN AND DESIGN REVIEW APPLICATION

REQUIRED ATTACHMENTS (One digital copy)

1. SITE PLAN

- ○ North arrow, scale, and date of plan
- ○ Location, dimensions, and area of permeable open space
- ○ Name, address of the professional who prepared the plan
- ○ Legend of symbols, patterns, and abbreviations used
- ○ The entire lot(s), including area and property lines dimensioned (including gross area of the site)
- ○ Curb cuts, interior streets, driveways, and parking and loading areas with dimensions and total area (sf)
- ○ Location and dimensions of buildings and structures, including total floor area and distance from property lines
- ○ Location of adjacent buildings
- ○ Location of refuse storage locations
- ○ Proposed right-of-way improvements including sidewalks and plantings, and pedestrian walkways
- ○ Fence location, height, and materials

2. FLOOR PLAN

- ○ Indicating the dimensions and square footage of proposed development
- ○ Room use
- ○ Location of all walls, doors, and windows
- ○ Location of all plumbing fixtures
- ○ Location of major appliances/mechanical equipment
- ○ Stairway location
- ○ Firewall location (if applicable)

3. ARCHITECTURAL ELEVATIONS

- ○ Architectural elevations of each side of the proposed structure drawn to scale indicating height, ground floor ceiling, ground floor transparency, architectural elements, materials, colors, and textures proposed for any structures.

4. LIGHTING PLAN

- ○ Location of all exterior lighting, including those mounted on poles and walls
- ○ Types, style, height, and the number of fixtures
- ○ Manufacturer's illustrations and specifications of fixtures

5. SIGNAGE PLAN

- ○ Proposed Signage with overall height, width, and materials
- ○ Building Elevation (including building width and height)
- ○ Site plan showing the location of all proposed detached sign(s) along with setback dimensions.

6. LANDSCAPE PLAN

- ○ Name and address of professional who prepared the plan.
- ○ Landscape plans shall be prepared by a registered landscape architect licensed by the Louisiana Horticulture Commission
- ○ All landscape plans shall meet the minimum requirements of site plans
- ○ Legend defining all symbols, patterns, and abbreviations used
- ○ Location, quantity, size, name, and condition (both botanical and common) of all existing and proposed plant materials and trees.
- ○ Description of all tree preservation measures on-site and in the public right-of-way
- ○ Width, depth, and area of landscaped area(s)
- ○ Proposed right-of-way improvements and pedestrian walkways

Planting proposed in the right-of-way must have Parks and Parkways approval

7. PHOTOS

- ○ Photographs of the subject site and/or building

8. NARRATIVE

- ○ Narrative addressing compliance with applicable Comprehensive Zoning Ordinance requirements and design goals

9. COLOR ELEVATIONS/RENDERING (DAC ONLY)

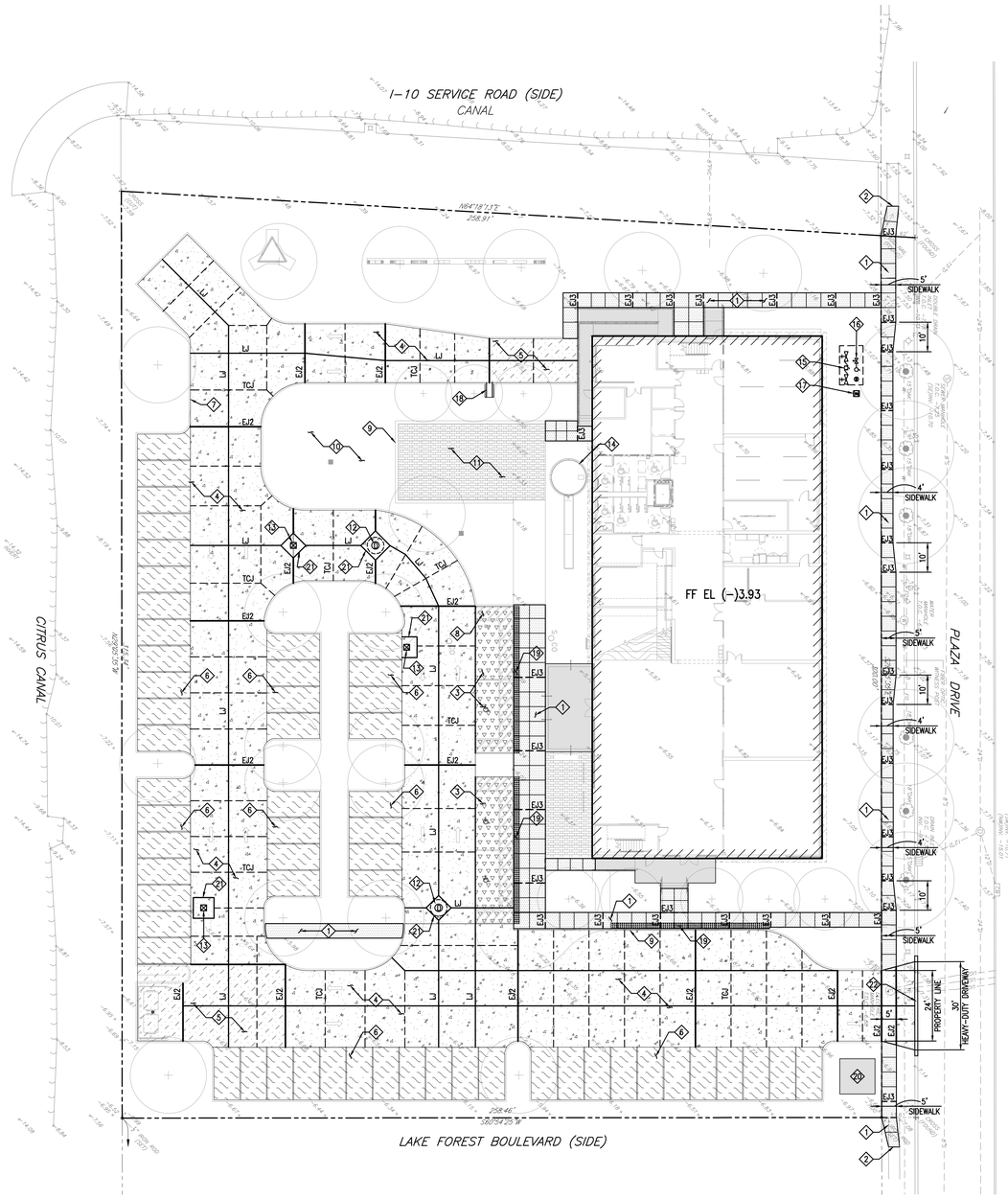
- ○ Color elevations and/or renderings are required for projects that trigger review by the Design Advisory Committee

10. SUPPLEMENT 'A' (UNIVERSITY AREA DESIGN OVERLAY)

- ○ Additional submittal requirements for the University Area Design Overlay

FEES

Design Review	$225
CBD Demolitions	$500
Moratorium Appeals	$1,000



PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 / C100 SITE AND PAVING PLAN
1"=20'

SITE PLAN KEY NOTES:

1. CONCRETE SIDEWALK PAVING – TYP., SEE 2/C200.
2. TIE-IN NEW SIDEWALK PAVING INTO EXISTING SIDEWALK PAVEMENT, SEE 3/C200.
3. LIGHT-DUTY CONCRETE PAVING, SEE 4/C200.
4. HEAVY-DUTY CONCRETE PAVING, SEE 4/C200.
5. SUPER HEAVY-DUTY CONCRETE PAVING, SEE 4/C200.
6. PERMEABLE PAVING – TRUEGRID PRO-PLUS HEAVY DUTY PAVERS, WITH PARKING DELINEATORS. SEE C201.
7. CONCRETE VERTICAL CURB, SEE 4/C200.
8. PARKING STRIPING – TYP., SEE 5/C201.
9. DEPRESSED CONCRETE CURB.
10. BIORETENTION RAIN GARDEN, SEE LANDSCAPE.
11. PERMEABLE CONCRETE UNIT PAVERS, SEE LANDSCAPE.
12. DRAIN MANHOLE, SEE C102.
13. DRAIN INLET, SEE C102.
14. ABOVE GROUND CISTERN TANK WITH RUNNEL, SEE LANDSCAPE.
15. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTER FOR FIRE WATER, SEE C103.
16. REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER (LEAD FREE) FOR DOMESTIC WATER, SEE C103.
17. S&WB SUPPLIED WATER METER FOR DOMESTIC WATER, SEE C103.
18. CONCRETE FLUME WITH 6" VERTICAL CURB, SEE C102.
19. DETECTABLE WARNING SURFACE, SEE 10/C200.
20. TRANSFORMER PAD. SEE STRUCTURAL AND ELECTRICAL.
21. LONGITUDINAL JOINT AROUND DRAIN STRUCTURE WITH 2–#4 DIAGONAL REBAR AT EACH CORNER – TYP.
22. SECTION OF EXISTING MOUNTABLE CURB TO BE DEMOLISHED AND REPLACED FOR INSTALLATION OF NEW HEAVY-DUTY DRIVEWAY WITH MOUNTABLE CURB PER CITY OF NEW ORLEANS DPW STANDARD DRAWINGS AND REQUIREMENTS.

PAVING PLAN LEGEND

- PORTLAND CEMENT CONCRETE SIDEWALK – 4" THK. SEE 2/C200.
- TRUEGRID PAVERS – PARKING SEE 1/C201
- PORTLAND CEMENT CONCRETE ADA PARKING – 6" THK. SEE 4/C200.
- HEAVY DUTY PORTLAND CEMENT CONCRETE DUMPSTER PAD – 10" THK., SEE 4/C200.
- HEAVY DUTY PORTLAND CEMENT CONCRETE DRIVEWAY AND ENTRANCE – 8" THK. SEE 4/C200.
- DETECTABLE WARNING SURFACE. SEE .

JOINTING LEGEND

- EJ1 — PROVIDE ½" PREFORMED, NON-EXTRUDING TYPE EXPANSION JOINT FILLER MATERIAL WITH JOINT SEALANT ON TOP (W/WIDTH/DEPTH EQUAL) AT THE INTERFACE OF STRUCTURAL PAVING/BUILDING AND SITE PAVING – TYP.
- EJ2 — DOWELED EXPANSION JOINT (EJ2) – SEE 9/C200
- EJ3 — ½" SIDEWALK EXPANSION JOINT SEE 2/C200 – TYP. PROVIDE TOOLED JOINT FOR SIDEWALK PAVING. SPACING SHALL NOT TO EXCEED 5'
- LJ — KEYED TIED LONGITUDINAL JOINT (LJ) – SEE 9/C200
- TCJ — TRANSVERSE CONTROL (SAW-CUT) JOINT (TCJ) – SEE 9/C200 SPACING SHALL NOT EXCEED 15'

DPW SITE PLAN APPROVAL
PERMIT REQUIRED PRIOR TO WORK

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

100% CONSTRUCTION DOCUMENTS

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	100% CD'S

REVISIONS

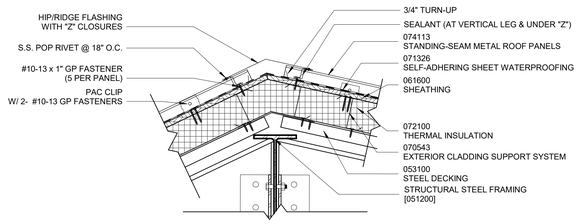
NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME
SITE AND PAVING PLAN

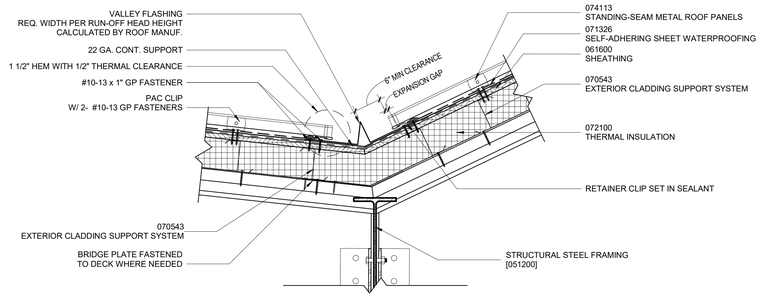
SHEET NO. C100

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001



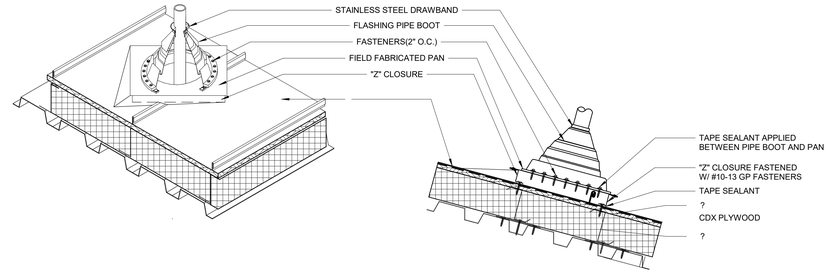
1 A220 A620 — STANDING SEAM RIDGE DETAIL

1 1/2" = 1'-0"



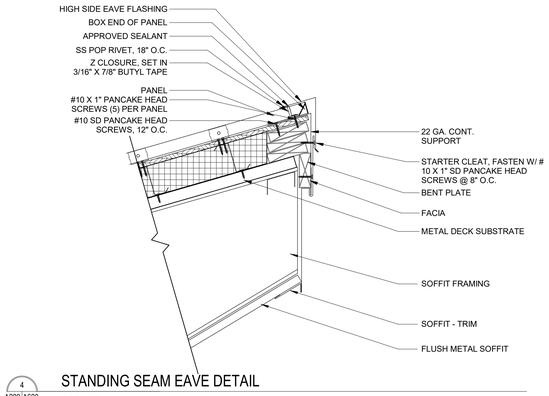
2 A220 A620 — STANDING SEAM VALLY DETAIL

1 1/2" = 1'-0"



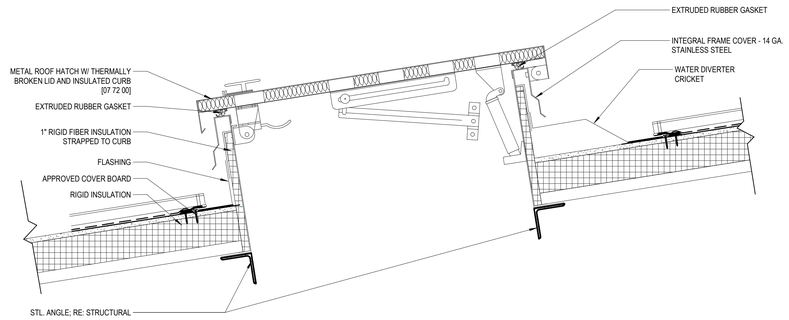
3 A220 A620 — STANDING SEAM PENETRATION DETAIL

1 1/2" = 1'-0"



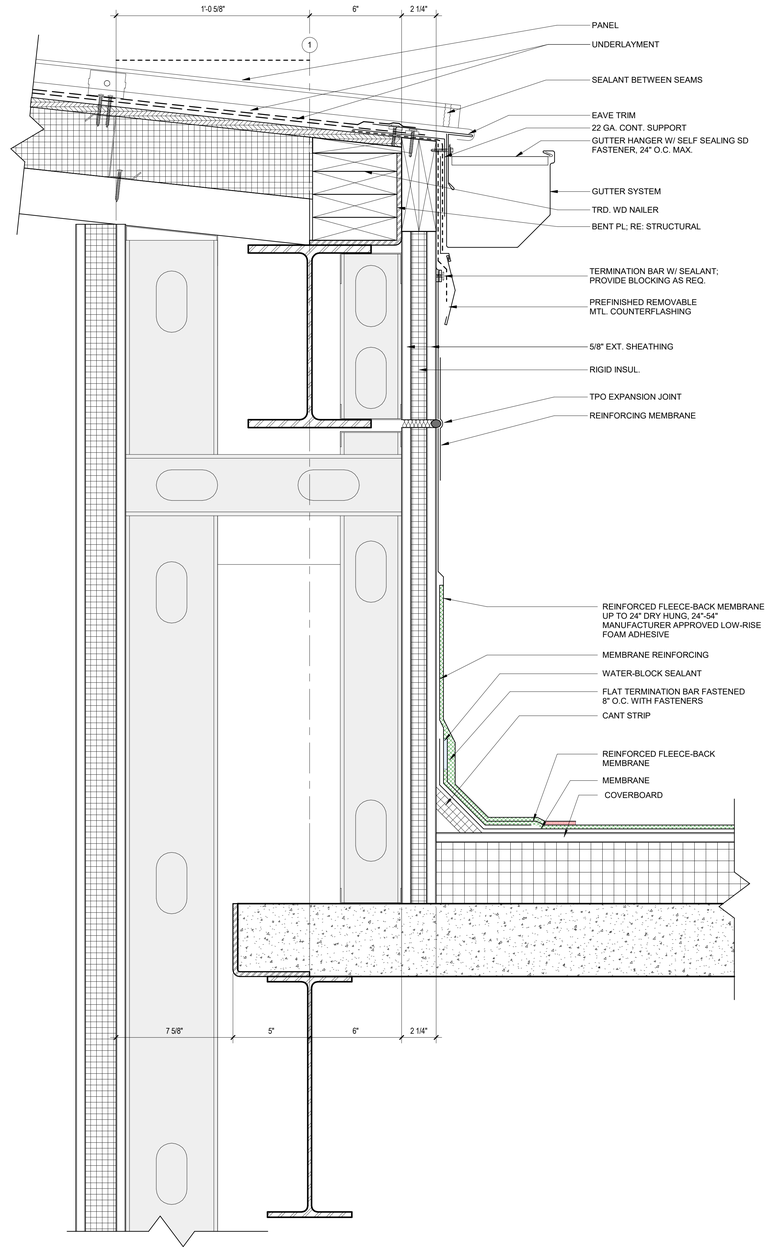
4 A220 A620 — STANDING SEAM EAVE DETAIL

1 1/2" = 1'-0"



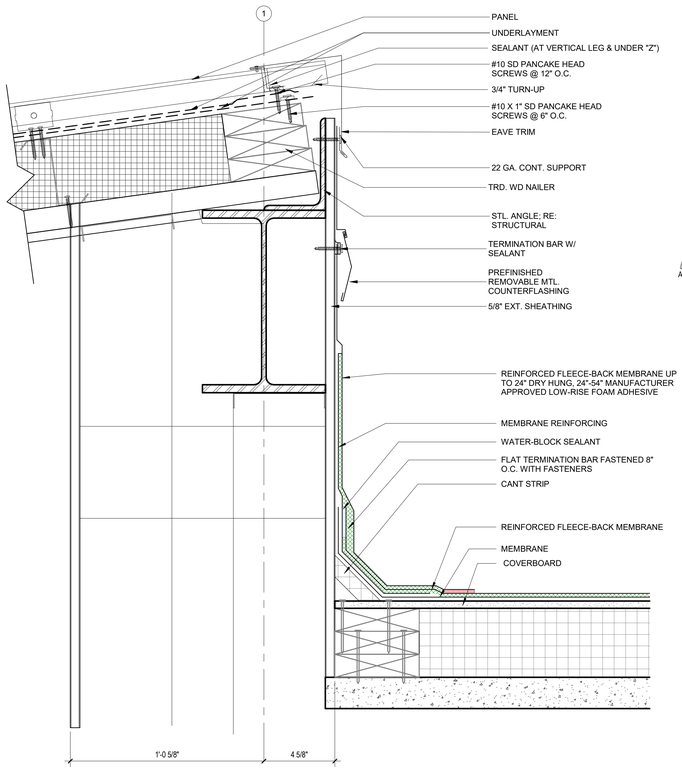
5 A220 A620 — STANDING SEAM ROOF HATCH PENETRATION

1 1/2" = 1'-0"



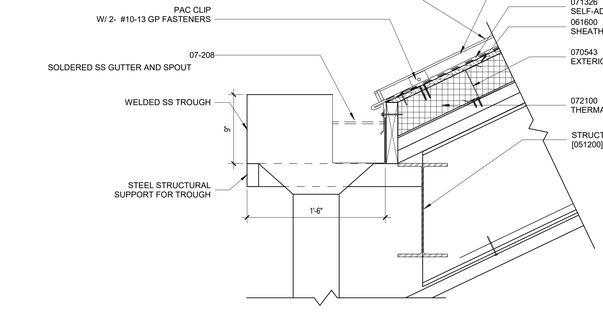
9 A220 A620 — TPO ROOF FLASHING - CURB AND GUTTER FLASHING

3" = 1'-0"



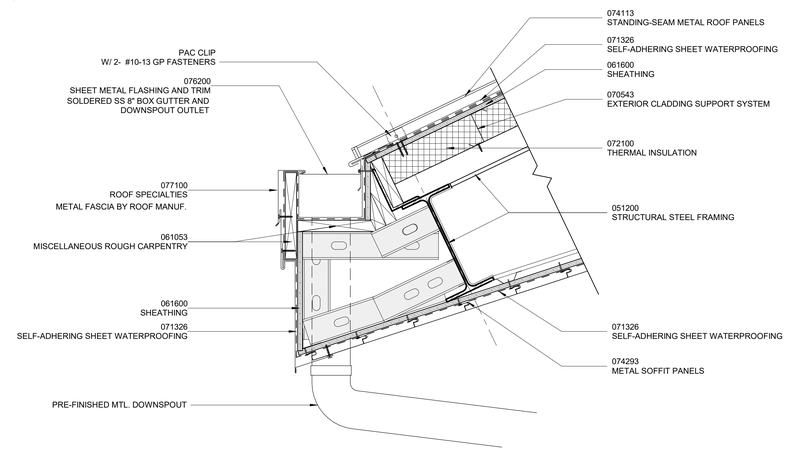
8 A220 A620 — TPO ROOF FLASHING - EAVE FLASHING

3" = 1'-0"



6 A220 A620 — STANDING SEAM GUTTER TROUGH DETAIL

1 1/2" = 1'-0"



7 A220 A620 — STANDING SEAM GUTTER EAVE DETAIL

1 1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
19/01/2026	PERMIT SET
01/19/2026	PERMIT SET

REVISIONS

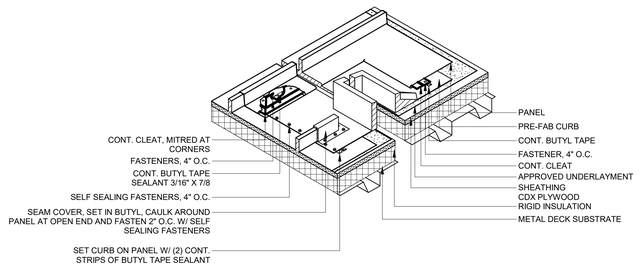
DOMINIC A. WILLARD, #36
REG. No. 7836
STATE OF LOUISIANA
PROFESSIONAL ARCHITECT

WDG Project No: 2024002

SHEET NAME

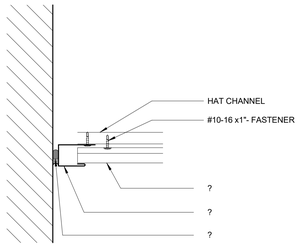
TYP. ROOF DETAILS

SHEET NO. A620

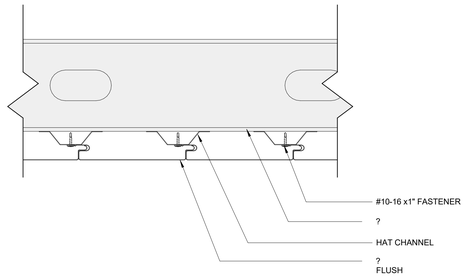


1 A220 A621 STANDING SEAM CURB DETAIL

1 1/2" = 1'-0"



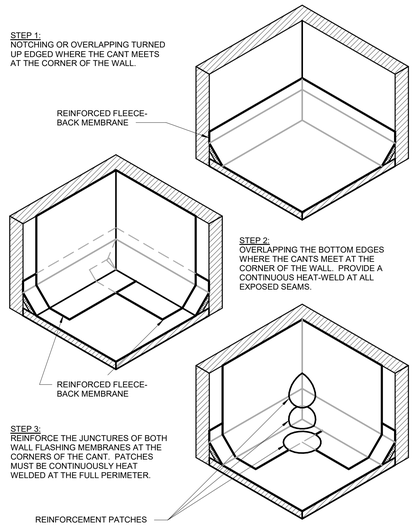
SOFFIT WALL CONNECTION

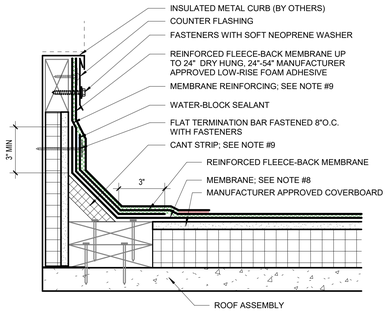


FASTENING DETAILS

2 A621 SOFFIT PANEL DETAILS

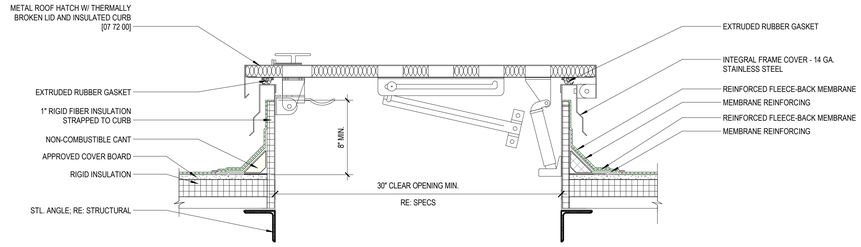
3" = 1'-0"





3 A220 A621 TPO ROOF CURB - INSULATED

3" = 1'-0"



4 A220 A621 TPO ROOF HATCH PENETRATION

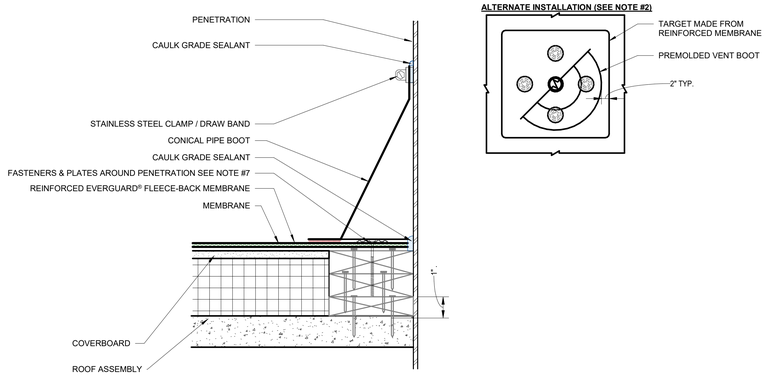
1 1/2" = 1'-0"

TPO ROOF NOTES:

1. FOR HEAT-WELDING LAPS, USE 1.5" MINIMUM WELD WITH AUTOMATIC MACHINE WELDER AND 2" MINIMUM WELD WITH HAND WELDER.
2. INSULATION MUST BE TAPERED TO CREATE A SUMP AROUND THE DRAIN WHEN THE ROOF DECK DOES NOT SATISFY THE MINIMUM SLOPE REQUIREMENTS FOR DRAINAGE.
3. FOR HEAT-WELDING LAPS, USE 1-1/2" MINIMUM WELD WITH AUTOMATIC MACHINE WELDER AND 2" MINIMUM WELD WITH HAND WELDER.
4. SEPARATE DISSIMILAR METALS TO PREVENT ELECTROLYTIC REACTION.
5. HEAT UNREINFORCED MEMBRANE, FORM BY HAND PRIOR TO HOT-AIR WELDING.
6. DO NOT CUT THROUGH THE SIDE OF THE PREMOLDED BOOT; IT MUST BE INSTALLED OVER THE VENT PIPE.
7. IF THE PLATES AND FASTENERS INTRUDE INTO THE BOOT FLANGE AREA, THEN A TARGET MUST BE FIRST INSTALLED OVER THE PLATES AND FASTENERS PRIOR TO BOOT INSTALLATION.
8. MEMBRANE TO BE SEALED USING CAULK GRADE SEALANT FOR EXPOSED MEMBRANE FOR PHASED INSTALLATION OR WHEN INDICATED BY DESIGNER OF RECORD.
9. VERTICAL FLASHING REINFORCEMENT AND CANT STRIP ARE REQUIRED FOR PHASED INSTALLATION OR WHEN INDICATED BY THE DESIGNER OF RECORD.

5 A621 TPO ROOF INSIDE CORNER CANT

3" = 1'-0"

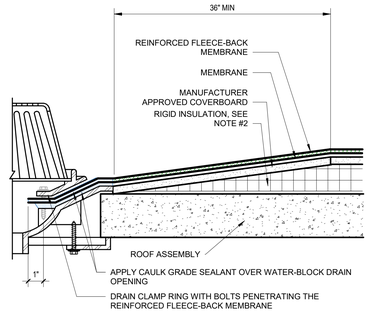


NOTES:

1. DO NOT CUT THROUGH THE SIDE OF THE PREMOLDED BOOT; IT MUST BE INSTALLED OVER THE VENT PIPE.
2. IF THE PLATES AND FASTENERS INTRUDE INTO THE BOOT FLANGE AREA, THEN A TARGET MUST BE FIRST INSTALLED OVER THE PLATES AND FASTENERS PRIOR TO BOOT INSTALLATION.

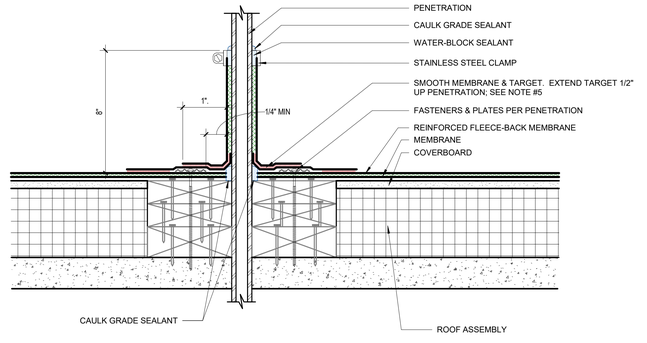
6 A621 TPO ROOF PENETRATION - BOOT

3" = 1'-0"



7 A621 TPO ROOF PENETRATION - DRAIN

3" = 1'-0"



8 A621 TPO ROOF PENETRATION - MEMBRANE FLASHING

3" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

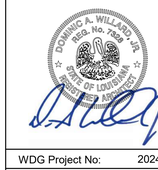
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
19/01/2026	PERMIT SET
01/19/2026	PERMIT SET

REVISIONS



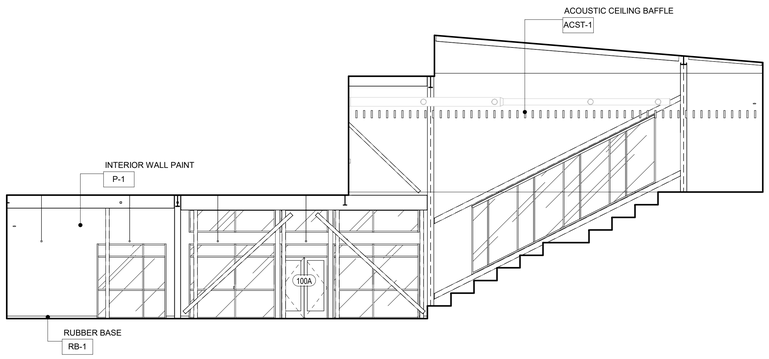
WDG Project No: 2024002

SHEET NAME

TYP. ROOF DETAILS

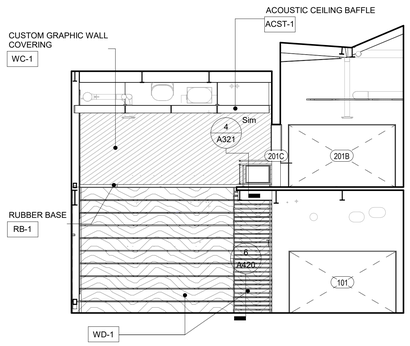
SHEET NO.

A621



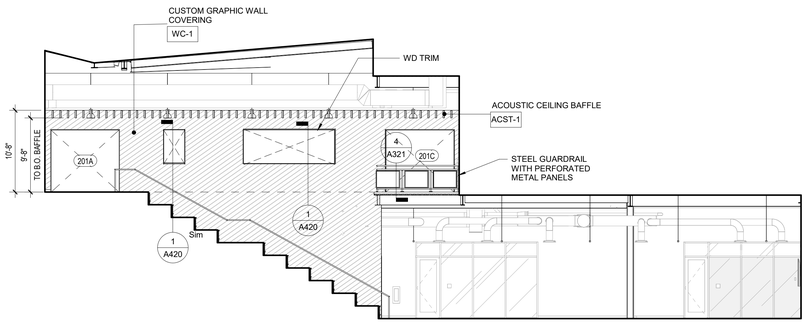
1 A211 A700 COLLABORATIVE STAIR & LOBBY ENTRANCE - WEST

1/8" = 1'-0"



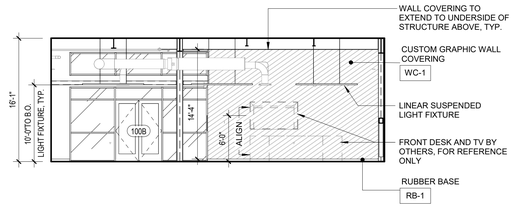
2 A211 A700 COLLABORATIVE STAIR - NORTH

1/8" = 1'-0"



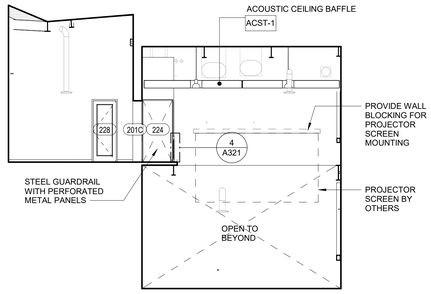
3 A211 A700 COLLABORATIVE STAIR - EAST

1/8" = 1'-0"



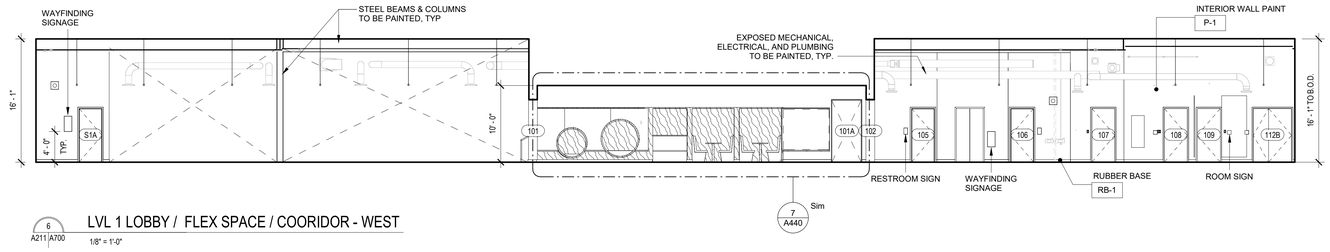
4 A211 A700 LOBBY - SOUTH

1/8" = 1'-0"



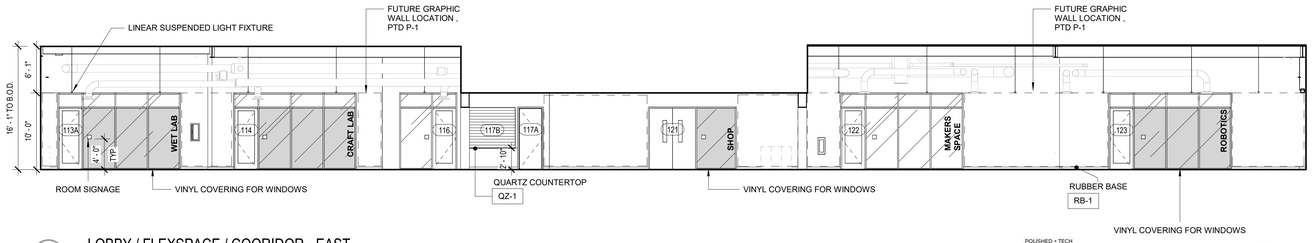
5 A211 A700 COLLABORATIVE STAIR - SOUTH

1/8" = 1'-0"



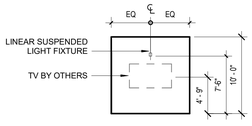
6 A211 A700 LVL 1 LOBBY / FLEX SPACE / COORIDOR - WEST

1/8" = 1'-0"



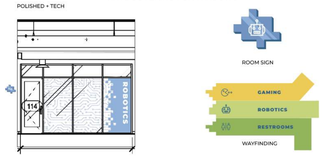
7 A211 A700 LOBBY / FLEXSPACE / COORIDOR - EAST

1/8" = 1'-0"



8 A211 A700 CONF. RM 1 - EAST

1/8" = 1'-0"



GENERAL NOTES

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2. CONTRACTOR TO PROVIDE WALL-MOUNTED MARKER BOARDS, SEE INTERIOR ELEVATIONS.
3. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
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5. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
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SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
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PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025

DOMINIC A. WILLARD JR. REG. No. 7539 STATE OF LOUISIANA REGISTERED ARCHITECT

studio kiro

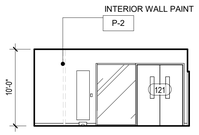
WDG Project No: 2024002

SHEET NAME

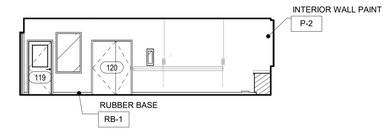
INTERIOR ELEVATIONS

SHEET NO.

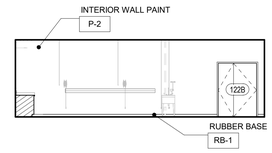
A700



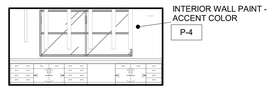
1 A211 | A701 WOOD SHOP - WEST
1/8" = 1'-0"



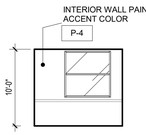
2 A211 | A701 WOOD SHOP - NORTH
1/8" = 1'-0"



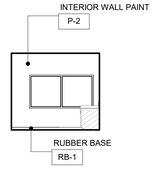
3 A211 | A701 WOOD SHOP - SOUTH
1/8" = 1'-0"



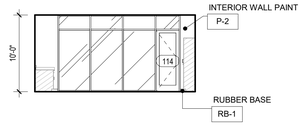
4 A211 | A701 WOOD SHOP - EAST
1/8" = 1'-0"



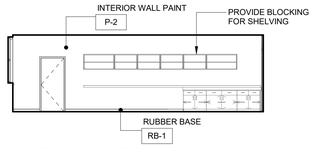
5 A211 | A701 METAL SHOP - EAST
1/8" = 1'-0"



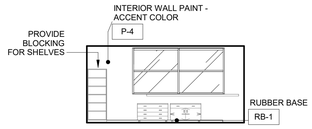
6 A211 | A701 METAL SHOP - WEST
1/8" = 1'-0"



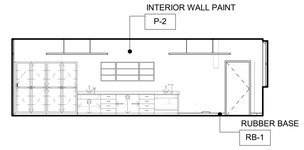
7 A211 | A701 CRAFT LAB - WEST
1/8" = 1'-0"



8 A211 | A701 CRAFT LAB - SOUTH
1/8" = 1'-0"

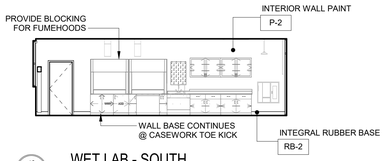


9 A211 | A701 CRAFT LAB - EAST
1/8" = 1'-0"

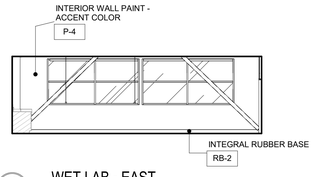


10 A211 | A701 CRAFT LAB - NORTH
1/8" = 1'-0"

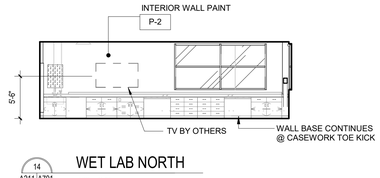
11 A211 | A701 WET LAB - WEST
1/8" = 1'-0"



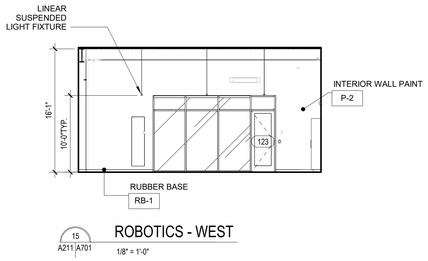
12 A211 | A701 WET LAB - SOUTH
1/8" = 1'-0"



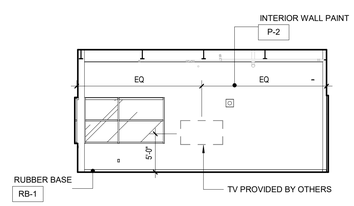
13 A211 | A701 WET LAB - EAST
1/8" = 1'-0"



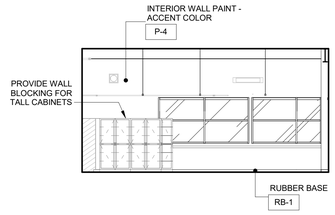
14 A211 | A701 WET LAB NORTH
1/8" = 1'-0"



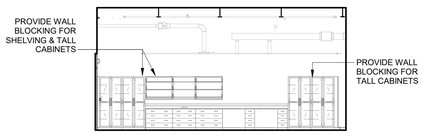
15 A211 | A701 ROBOTICS - WEST
1/8" = 1'-0"



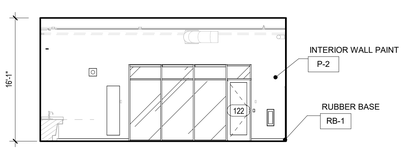
16 A211 | A701 ROBOTICS - SOUTH
1/8" = 1'-0"



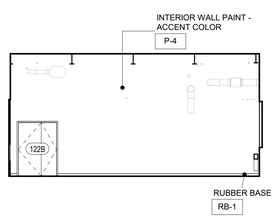
17 A211 | A701 ROBOTICS - EAST
1/8" = 1'-0"



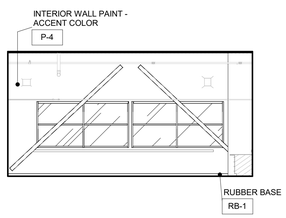
18 A211 | A701 ROBOTICS - NORTH
1/8" = 1'-0"



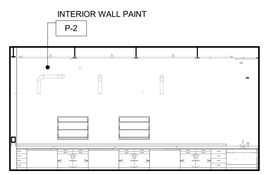
19 A211 | A701 MAKERSPACE - WEST
1/8" = 1'-0"



20 A211 | A701 MAKERSPACE - NORTH
1/8" = 1'-0"



21 A211 | A701 MAKERSPACE - EAST
1/8" = 1'-0"



22 A211 | A701 MAKERSPACE - SOUTH
1/8" = 1'-0"

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REVISIONS

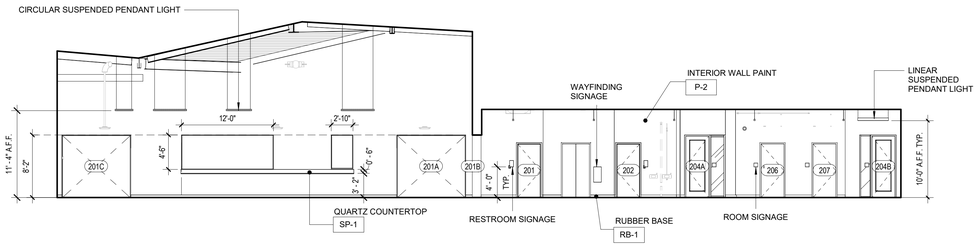
DOMINIC A. WILLARD REG. No. 7526 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME
INTERIOR ELEVATIONS

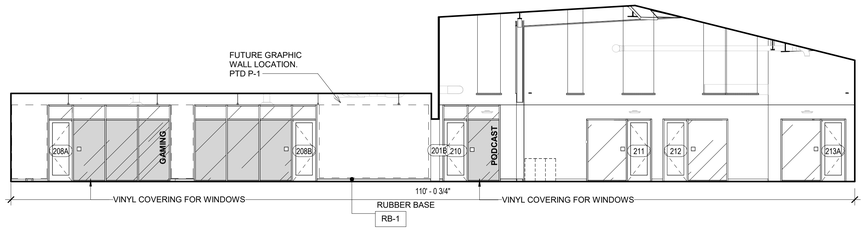
SHEET NO. A701

studio kiro



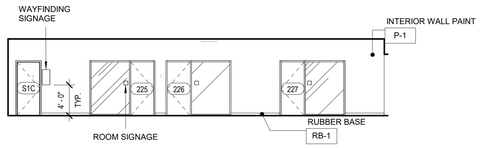
1 A211 A702 LVL 2 FLEX SPACE / COORIDOR - WEST

1/8" = 1'-0"



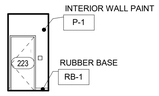
2 A211 A702 LVL 2 FLEX SPACE / COORIDOR - EAST

1/8" = 1'-0"



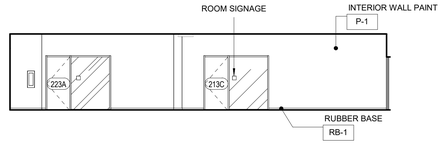
3 A211 A702 LVL 2 OFFICE COORIDOR - WEST

1/8" = 1'-0"



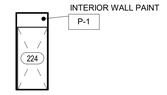
4 A211 A702 LVL 2 OFFICE COORIDOR - NORTH

1/8" = 1'-0"



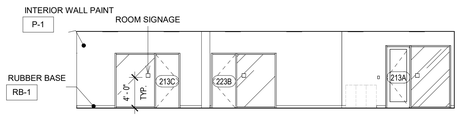
5 A211 A702 LVL 2 OFFICE COORIDOR - EAST

1/8" = 1'-0"



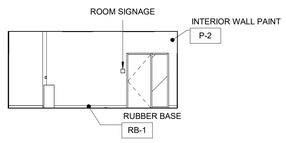
6 A211 A702 LVL 2 OFFICE COORIDOR - SOUTH

1/8" = 1'-0"



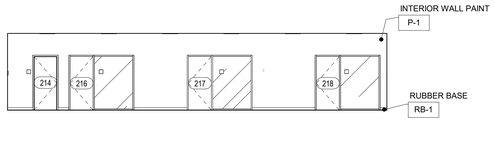
7 A211 A702 OPEN OFFICE - WEST

1/8" = 1'-0"



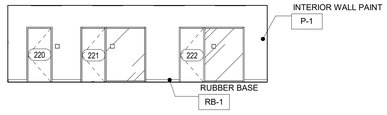
8 A211 A702 OPEN OFFICE - NORTH

1/8" = 1'-0"



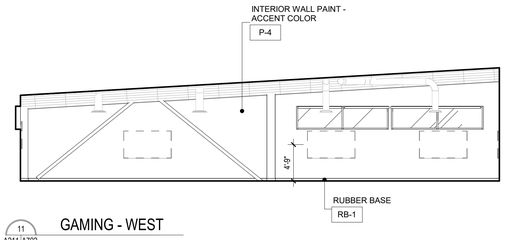
9 A211 A702 OPEN OFFICE - EAST

1/8" = 1'-0"



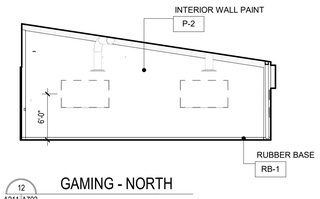
10 A211 A702 OPEN OFFICE - SOUTH

1/8" = 1'-0"



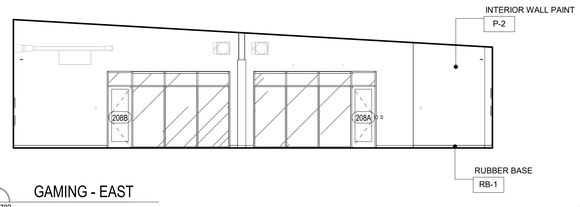
11 A211 A702 GAMING - WEST

1/8" = 1'-0"



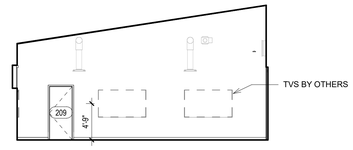
12 A211 A702 GAMING - NORTH

1/8" = 1'-0"



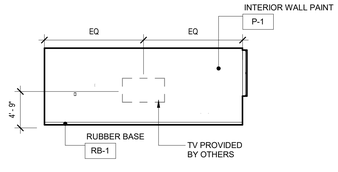
13 A211 A702 GAMING - EAST

1/8" = 1'-0"



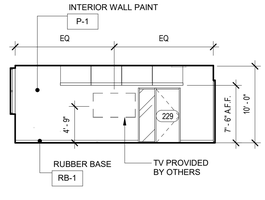
14 A211 A702 GAMING - SOUTH

1/8" = 1'-0"



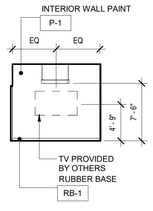
15 A211 A702 CONF. RM 3 - NORTH

1/8" = 1'-0"



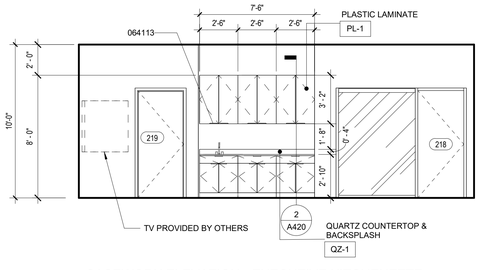
16 A211 A702 CONF. RM 3 - SOUTH

1/8" = 1'-0"



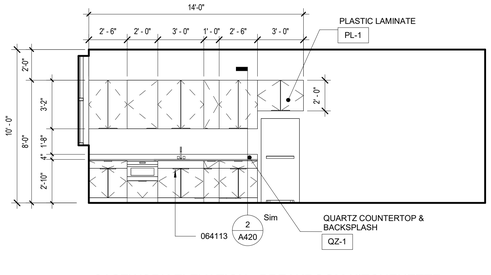
17 A211 A702 CONF. RM 2 - SOUTH

1/8" = 1'-0"



18 A211 A702 CASEWORK ELEVATION - EXECUTIVE KITCHENETTE

1/4" = 1'-0"



19 A211 A702 CASEWORK ELEVATION - BREAKROOM KITCHENETTE

1/4" = 1'-0"

GENERAL NOTES

1. REFER TO LAB PLANNER DRAWINGS FOR ALL SPECIALTY EQUIPMENT AND CASEWORK IN LABORATORIES.
2. CONTRACTOR TO PROVIDE WALL-MOUNTED MARKER BOARDS, SEE INTERIOR ELEVATIONS.
3. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
4. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
5. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
6. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025

WDG Project No: 2024002

SHEET NAME

INTERIOR ELEVATIONS

SHEET NO. A702

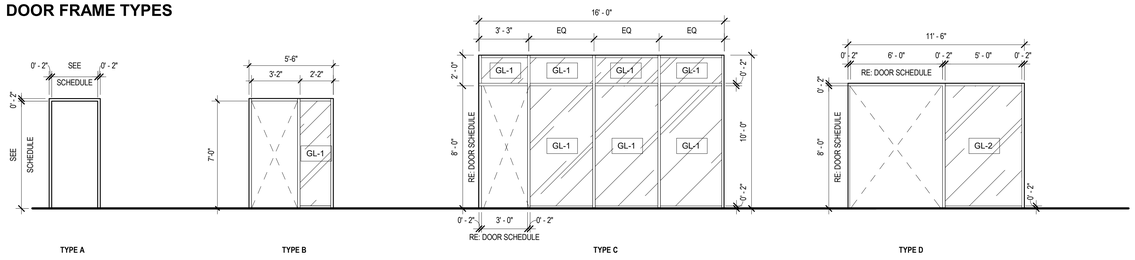
studio kiro

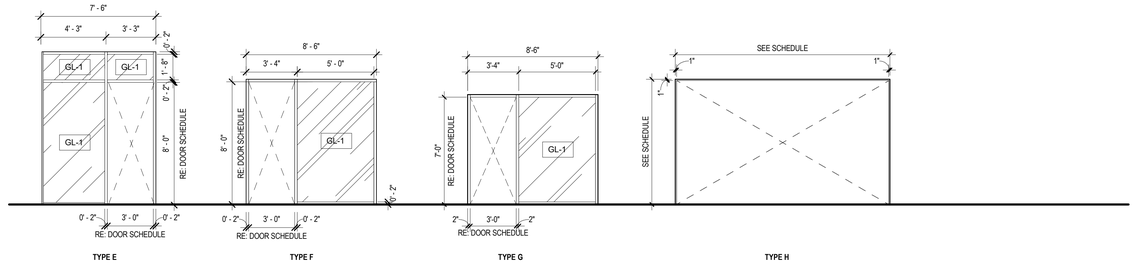
DOOR SCHEDULE

DOOR NO.	ROOM	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE RATING	HARDWARE SET	REMARKS
FIRST FLOOR															
100A	LOBBY	6' - 0"	8' - 0"	FF	ALUM	CLR ANOD.		ALUM	CLR ANOD.					SET 1.0	
100B	LOBBY	6' - 0"	8' - 0"	FF	ALUM	CLR ANOD.		ALUM	CLR ANOD.					SET 1.0	
101	FLEX SPACE	14' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
101A	FLEX SPACE	4' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
102	CORRIDOR	14' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
103	CO-WORKING SPACE 1	3' - 0"	8' - 0"	F	WD	CLR STAIN	A	HM	PTD					SET 9.0	
104	CO-WORKING SPACE 2	3' - 0"	8' - 0"	F	WD	CLR STAIN	A	HM	PTD					SET 9.0	
105	WOMEN'S RESTROOM	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD					SET 27.0	
106	MEN'S RESTROOM	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD					SET 27.0	
107	JAN. CLO.	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD				45 MIN	SET 16.0	
108	ELECT. RM.	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD				45 MIN	SET 5.0	
109	IT RM.	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD				45 MIN	SET 17.0	
110	SPRINKLER RM.	3' - 0"	8' - 0"	A	HM	PTD	A	HM	PTD					SET 3.0	
111	STORAGE	5' - 0"	7' - 0"	AA	HM	PTD	A	HM	PTD				45MIN	SET 25.0	
112A	LOADING DOCK	12' - 0"	11' - 3"		STL	PTD								SET 29.0	
112B	LOADING DOCK	5' - 0"	7' - 0"	AA	HM	PTD	A	HM	PTD				45MIN	SET 19.0	
113A	WET LAB	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 4.0	
113B	WET LAB	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 10.0	
114	CRAFT LAB	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 6.0	
115	CRAFT STOR.	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 21.0	
116	CONF. RM. 1	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 18.0	
117A	BREAK ROOM	3' - 0"	8' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 20.0	
117B	BREAK ROOM	6' - 0"	5' - 3"	K	STL	PTD	A	HM	PTD					SET 29.0	
118	SHOP STOR.	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 21.0	
119	SHOP OFFICE	3' - 0"	7' - 0"	D	WD	CLR STAIN	A	HM	PTD					SET 11.0	
120	METAL SHOP	5' - 0"	7' - 0"	BB	WD	CLR STAIN	A	HM	PTD					SET 24.0	
121	WOOD SHOP	6' - 0"	8' - 0"	AA	WD	CLR STAIN	D	HM	PTD					SET 8.0	
122	MAKER SPACE + PROTOTYPE	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 4.0	
122B	WOOD SHOP	5' - 0"	7' - 0"	BB	WD	CLR STAIN	A	HM	PTD					SET 19.0	
123	COMPUTER/ ROBOTICS	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 4.0	
S1A	STAIR 1	3' - 0"	7' - 0"	B	HM	PTD	A	HM	PTD				60 MIN	SET 7.0	
S1B	STAIR 1	3' - 0"	8' - 0"	A	HM	PTD	A	HM	PTD					SET 2.0	
S2A	STAIR 2	3' - 0"	7' - 0"	B	HM	PTD	A	HM	PTD				60 MIN	SET 7.0	
S2B	STAIR 2	3' - 0"	8' - 0"	F	WD	CLR ANOD.	F	HM	CLR ANOD.					SET 1.1	
SECOND FLOOR															
201	WOMEN'S RESTROOM	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD					SET 27.0	
201A	FLEX SPACE	9' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
201B	FLEX SPACE	14' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
201C	FLEX SPACE	9' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
202	MEN'S RESTROOM	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD					SET 27.0	
204A	MULTI-PURPOSE RM	3' - 0"	8' - 0"	F	WD	CLR STAIN	A	HM	PTD					SET 6.0	
204B	MULTI-PURPOSE RM	3' - 0"	8' - 0"	F	WD	CLR STAIN	A	HM	PTD					SET 6.0	
206	ELECT. RM.	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD				45 MIN	SET 5.0	
207	IT RM.	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD				45 MIN	SET 16.0	
208A	DIGITAL MEDIA / GAMING	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 6.0	
208B	DIGITAL MEDIA / GAMING	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 6.0	
209	DIGITAL MEDIA / GAMING STORAGE	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 14.0	
210	PRIVATE GROUP POD	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 20.0	
211	BREAK RM	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 28.0	
212	CONF. RM 3	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 18.0	
213A	OPEN OFFICE	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 10.0	
213C	OPEN OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 10.0	
214	VESTIBULE	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 26.0	
215	VESTIBULE	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 23.0	
216	OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
217	OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
218	EXECUTIVE OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
219	PRIVATE TOILET RM	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 22.0	
220	OFFICE STORAGE	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 13.0	
221	OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
222	OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
223	CLOSET	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 13.0	
223A	CONF. RM. 2	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
223B	CONF. RM. 2	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 10.0	
225	CO-WORKING SPACE 5	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 9.0	
226	CO-WORKING SPACE 4	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 9.0	
227	CO-WORKING SPACE 3	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 9.0	
228	PHONEBOOTH	3' - 0"	8' - 0"	F	WD	CLR STAIN	A	HM	PTD					SET 18.0	
229	CONF. RM 3	3' - 0"	7' - 0"	A	WD	CLR STAIN	B	HM	PTD					SET 18.0	
S1C	STAIR 1	3' - 0"	7' - 0"	B	HM	CLR STAIN	A	HM	PTD				60 MIN	SET 7.0	
S2C	STAIR 2	3' - 0"	7' - 0"	B	HM	CLR STAIN	A	HM	PTD				60 MIN	SET 7.0	

INTERIOR GLAZING SCHEDULE	
TYPE	DESCRIPTION
GL-1	1/2" MONOLITHIC TEMPERED
GL-2	5/8" LAM

DOOR FRAME TYPES





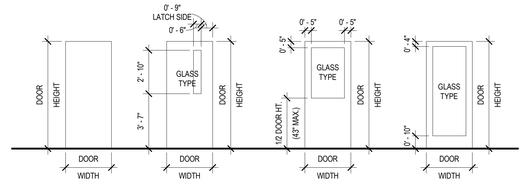
ADA STANDARDS
(404.2.10) DOOR SURFACES WITH 10" A.F.F. SHALL BE SMOOTH ON PUSH SIDE FULL WIDTH OF DOOR
(404.2.11) VISION LITES SHALL BE 43" MAX. A.F.F.

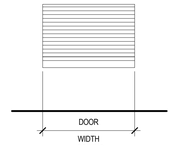
DOOR CRITERIA AND GENERAL NOTES:

1. ALL DOOR TYPES LISTED IN DOOR SCHEDULE ARE FOUND IN THE SPECIFICATION DIVISION 08.
2. THE FOLLOWING EXPLANATION APPLIES TO THE DOOR SCHEDULE.
   A. DOOR NUMBER
      (1) THE DOOR NUMBER SHALL BE THE SAME AS THE ROOM SERVED.
      (2) IF MORE THAN ONE DOOR SERVES THE SAME ROOM, EACH DOOR WILL BE ASSIGNED AN IDENTIFICATION NUMBER CONSISTING OF THE ROOM NUMBER PLUS AN ALPHABETICAL SUFFIX. THE NUMBER OF A DOOR COMMUNICATING BETWEEN TWO ROOMS SHALL BE DETERMINED BY THE ROOM IN WHICH IT SWINGS.
   B. DOOR SIZE
      THE WIDTH AND HEIGHT OF THE DOOR APPEARS IN THE DOOR SCHEDULE IN FEET AND INCHES. THE DOOR SHALL BE 1 3/4" FOR HOLLOW METAL AND WOOD DOORS, UNLESS NOTED OTHERWISE.
   C. DOOR TYPE
      REFER TO THE DOOR SCHEDULE AND THIS SHEET FOR DOOR TYPES.
   D. FRAME TYPES
      REFER TO THE DOOR SCHEDULE AND THIS SHEET FOR FRAME TYPES.
   E. HARDWARE GROUPS
      REFER TO THE DOOR SCHEDULE, HARDWARE SPECIFICATION IN SECTION 08 71 01 AND THIS SHEET FOR HARDWARE GROUPS.
   F. DETAILS
      TYPICAL DETAILS REFERENCED ARE LOCATED ON SHEET

AT ALL TYPES OF EXTERIOR DOORS THAT SWING OUT, DOOR HEAD SHALL BE FLUSH AND SEALED

DOOR PANEL TYPES



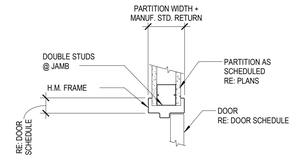


DOOR MATERIAL	DESCRIPTION
AL	ALUMINUM
HM	HOLLOW METAL
WD	SOLID CORE WOOD

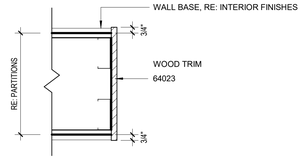
DOOR FINISH	DESCRIPTION
CLR STAIN	CLEAR STAIN
PDT	PAINTED

DOOR HARDWARE SETS:

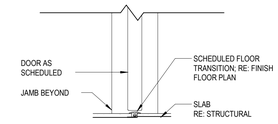
SET 1.0: EXTERIOR - ALUM - PAIR - LOBBY (EAC)
SET 1.1: EXTERIOR - ALUM - STAIR (EAC)
SET 2.0: EXTERIOR - STAIR (EAC)
SET 3.0: EXTERIOR - SPRINKLER RM.
SET 4.0: COMPUTER/ ROBOTICS, MAKER SPACE + PROTOTYPE, WET LAB (EAC)
SET 5.0: ELECT. RM.
SET 6.0: CRAFT LAB, DIGITAL MEDIA / GAMING, MULTI-PURPOSE RM
SET 7.0: STAIR
SET 8.0: PAIR - WOOD SHOP (EAC)
SET 9.0: CO-WORKING SPACE
SET 10.0: OPEN OFFICE, WET LAB (EAC)
SET 11.0: SHOP OFFICE (EAC)
SET 12.0: NOT USED
SET 13.0: CLOSET, OFFICE STORAGE
SET 14.0: DIGITAL MEDIA / GAMING STORAGE
SET 15.0: NOT USED
SET 16.0: IT RM., JAN. CLO.
SET 17.0: IT RM.
SET 18.0: CONF. RM., OFFICE, PHONEBOOTH
SET 19.0: PAIR - LOADING DOCK
SET 20.0: BREAK ROOM, PRIVATE GROUP POD
SET 21.0: CRAFT STOR., SHOP STOR.
SET 22.0: PRIVATE TOILET RM
SET 23.0: TOILET ROOM
SET 24.0: PAIR - METAL SHOP, WOOD SHOP
SET 25.0: PAIR - STORAGE
SET 26.0: VESTIBULE
SET 27.0: RESTROOM
SET 28.0: BREAK RM
SET 29.0: COILING DOOR



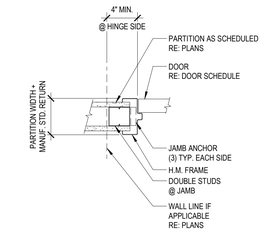
3 A800 HM DOOR HEAD @ STUD WALL
1 1/2" = 1'-0"



10 A800 WD JAMB @ CASED OPENING
1 1/2" = 1'-0"



5 A800 SILL DETAIL @ HM DOOR - INTERIOR
1 1/2" = 1'-0"



4 A800 HM JAMB AT STUD WALL
1 1/2" = 1'-0"

studio kiro

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE	
DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS		
1	REVISION 1	11/10/2025

DOMINIC A. WILLARD, JR. REG. No. 7529 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

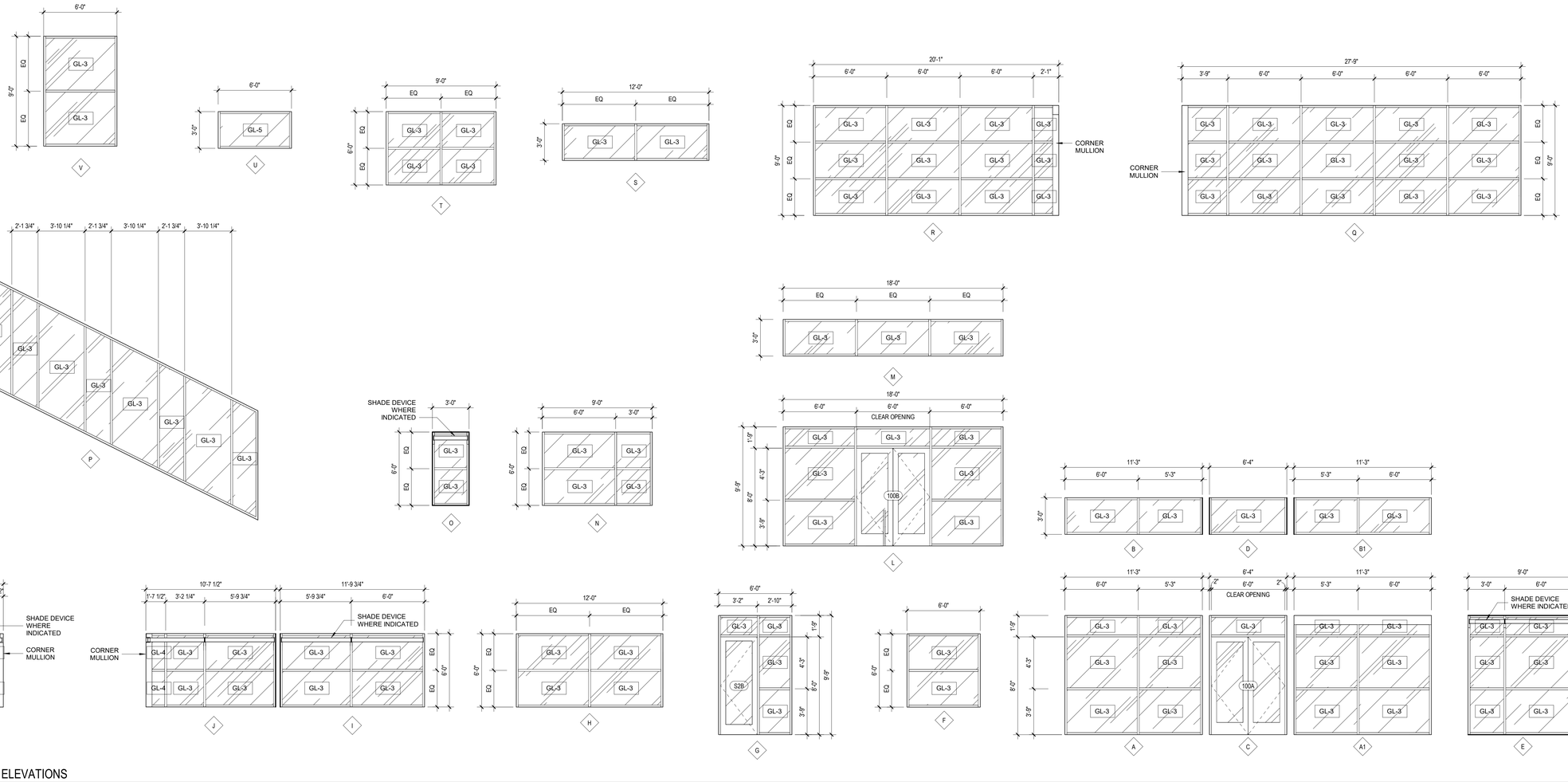
SHEET NAME
DOOR SCHEDULES & DETAILS

SHEET NO.
A800

EXTERIOR STOREFRONT / CURTAIN WALL SCHEDULE				
MARK	DESCRIPTION	HEIGHT R.O.	WIDTH R.O.	COMMENTS
A	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	11' - 3"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
A1	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	11' - 3"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
B	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	3' - 0"	11' - 3"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
B1	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	3' - 0"	11' - 3"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
C	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	6' - 4"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
D	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	3' - 0"	6' - 4"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
E	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	9' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
F	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	6' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
G	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	6' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
H	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	12' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
I	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	11' - 9 3/4"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
J	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	10' - 7 1/2"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
K	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	11' - 11 1/4"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
L	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	18' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
M	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	3' - 0"	18' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
N	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	9' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
O	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	3' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
P	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	VARIES	VARIES `	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
Q	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 0"	27' - 9"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
R	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 0"	20' - 1"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
S	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. CURTAINWALL	3' - 0"	12' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
T	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	9' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
U	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	3' - 0"	6' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
V	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 0"	6' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.

Grand total: 44

EXTERIOR GLAZING SCHEDULE	
TYPE	DESCRIPTION
GL-3	1-5/16" IMPACT RESISTANT INSUL. LAMINATED
GL-4	1-5/16" IMPACT RESISTANT INSUL. LAMINATED; SPANDREL
GL-5	1-5/16" IMPACT RESISTANT INSUL. LAMINATED; FROSTED



1 A820 EXTERIOR STOREFRONT ELEVATIONS

1/4" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOWNING A. WILLARD, JR. REG. No. 7826 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

EXTERIOR OPENINGS SCHEDULE & ELEVATIONS

SHEET NO.

A820

INTERIOR FINISH LEGEND

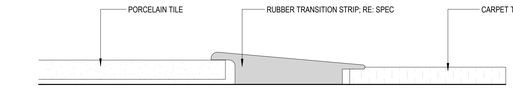
MARK	DESCRIPTION	BASIS-OF-DESIGN MANUFACTURER	BASIS-OF-DESIGN MODEL	SIZE	COLOR	REMARKS
CASEWORK & MILLWORK						
FAB-1	BOOTH FABRIC	BRENTANO	HOLBROOK			
H-1	UNDERMOUNT HOOK	ELEMENTS	YD20-156PC			
PL-1	PLASTIC LAMINATE	WILSONART				
QZ-1	QUARTZ COUNTERTOP & BACKSPLASH	COSENTINO	SILESTONE	2CM		
SP-1	RIFT SAWN WHITE OAK VENEER ON PLYWOOD					
CEILING						
ACST-1	ACOUSTIC CEILING BAFFLE	TURF	SLAB			SPACING EQUAL TO BAFFLE DEPTH. NRC >0.8
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	CANYON 1492	24" X 24"		PRELUDE XL 15/16" GRID - BEVELED TEGULAR EDGE
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	KITCHEN ZONE 673	24" X 24"		PRELUDE XL 15/16" GRID - LAY-IN EDGE. SCRUBBABLE
ACT-3	ACOUSTIC CEILING TILE	ARMSTRONG	BACKSTAGE NOIR 1318	24" X 28"		PRELUDE XL 15/16" GRID - LAY-IN EDGE
FLOORING						
CONC-1	SEALED CONCRETE					
CONC-2	SEALED CONCRETE					EPOXY SEALANT
CPT-1	CARPET TILE	PATCRAFT	CRAFTED SURFACE	18" X 36"		
CPT-2	CARPET TILE	PATCRAFT	LEARNING LAB	24" X 24"		
RF-1	RUBBER FLOOR	NORA	NORAPLAN ENVIROCARE			
TL-1	PORCELAIN FLOOR TILE	DALTILE	VOLUME 1.0	12" X 24"		STEPWISE SLIP RESISTANT TECHNOLOGY
WD-1	ENGINEERED HARDWOOD	ARMSTRONG FLOORING	TIMBERTONES			WITH ARMSTRONG TIMBERTONES STAIR NOSING, SEE INTERIOR SECTION DETAILS
INTERIOR PAINT						
P-1	INTERIOR WALL PAINT	BENJAMIN MOORE				
P-2	INTERIOR WALL PAINT	BENJAMIN MOORE				EPOXY
P-3	INTERIOR CEILING PAINT	BENJAMIN MOORE				
P-4	INTERIOR WALL PAINT - ACCENT COLOR	BENJAMIN MOORE				EPOXY
P-5	INTERIOR WALL PAINT - ACCENT COLOR	BENJAMIN MOORE				
VINYL FILM						
VF-1	VINYL FILM					
WALL BASE						
RB-1	RUBBER BASE	ROPPE	700 SERIES	4" TALL		
RB-2	INTEGRAL RUBBER BASE	MANNINGTON COMMERCIAL	IDEALBASE	6" TALL		
WALLS						
FRP-1	FIBRE REINFORCED PLASTIC	MARLITE	SYMMETRIX			
TL-2	CERAMIC WALL TILE	DALTILE	BRYNE	12" X 24"		STACKED VERTICAL
TL-3	CERAMIC WALL TILE	DALTILE	COLOR WHEEL CLASSIC	3" X 6"		STACKED VERTICAL
WC-1	CUSTOM GRAPHIC WALL COVERING	MOMENTUM	DIGITAL MURAL	SEE INTERIOR ELEVATIONS		

WINDOW SHADE SCHEDULE

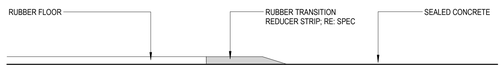
MARK	DESCRIPTION	HARDWARE					SCREEN		
		MANUFACTURER	MODEL	FASCIA	FINISH	BRACKETS	FABRIC	OPENNESS	COLOR
WS-1	MANUAL ROLLER SHADE	ROLLEASE ACMEDA	SKYLINE	4" RECTANGULAR	GRAY	STANDARD	KLEENSCREEN SOLAR	3%	ALLOY
WS-2	MANUAL ROLLER SHADE - BLACKOUT	ROLLEASE ACMEDA	SKYLINE	4" RECTANGULAR	GRAY	STANDARD	KLEENSCREEN BLACKOUT	BLACKOUT	ALLOY
WS-3	AUTOMATIC ROLLER SHADE - BLACKOUT			4" RECTANGULAR	GRAY		KLEENSCREEN BLACKOUT	BLACKOUT	ALLOY

ROOM FINISH SCHEDULE

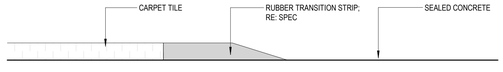
ROOM #	ROOM NAME	FLOOR	BASE	WALL	CEILING
FIRST FLOOR					
100	LOBBY	CONC-1	RB-1	P-1	EXPOSED DECK
101	FLEX SPACE	CONC-1	RB-1	P-1	PTD. GYP - P-3
102	CORRIDOR	CONC-1	RB-1	P-1	EXPOSED DECK
103	CO-WORKING SPACE 1	CPT-1	RB-1	P-1	ACT-1
104	CO-WORKING SPACE 2	CPT-1	RB-1	P-1	ACT-1
105	WOMEN'S RESTROOM	TL-1	ASSOC. TL TRIM	P-2, TL-2	PTD. GYP - P-3
106	MEN'S RESTROOM	TL-1	ASSOC. TL TRIM	P-2, TL-2	PTD. GYP - P-3
107	JAN. CLO.	CONC-1	RB-1	P-1	EXPOSED DECK
108	ELECT. RM.	CONC-1	RB-1	P-1	EXPOSED DECK
109	IT RM.	CONC-1	RB-1	P-1	EXPOSED DECK
110	SPRINKLER RM.	CONC-1	RB-1	P-1	EXPOSED DECK
111	STORAGE	CONC-1	RB-1	P-1	EXPOSED DECK
112	LOADING DOCK	CONC-1	RB-1	P-1	EXPOSED DECK
113	WET LAB	RF-1	RB-2	P-2, P-4	ACT-2
114	CRAFT LAB	CONC-1	RB-1	P-2, P-4	ACT-1
115	CRAFT STOR.	CONC-1	RB-1	P-2	ACT-1
116	CONF. RM. 1	CPT-1	RB-1	P-1	ACT-1
117	BREAK ROOM	CONC-2	RB-1	FRP-1	ACT-2
118	SHOP STOR.	CONC-1	RB-1	P-2	EXPOSED DECK
119	SHOP OFFICE	CONC-1	RB-1	P-2	ACT-1
120	METAL SHOP	CONC-1	RB-1	P-2, P-4	ACT-1
121	WOOD SHOP	CONC-1	RB-1	P-2, P-4	EXPOSED DECK
122	MAKER SPACE + PROTOTYPE	CONC-1	RB-1	P-2, P-4	EXPOSED DECK
123	COMPUTER/ ROBOTICS	CONC-1	RB-1	P-2, P-4	EXPOSED DECK
STR 1	STAIR 1	CONC-1	RB-1	P-1	PTD. GYP - P-3
STR 2	STAIR 2	CONC-1	RB-1	P-1	PTD. GYP - P-3
SECOND FLOOR					
200	COLLABORATIVE STAIR	WD-1	RB-1	P-1	EXPOSED DECK. ACST-1
201	FLEX SPACE	CONC-1	RB-1	P-1	EXPOSED DECK
202	WOMEN'S RESTROOM	TL-1	ASSOC. TL TRIM	P-2, TL-2	PTD. GYP - P-3
203	MEN'S RESTROOM	TL-1	ASSOC. TL TRIM	P-2, TL-2	PTD. GYP - P-3
204	MULTI-PURPOSE RM	CPT-2	RB-1	P-1	ACT-1
206	ELECT. RM.	CONC-1	RB-1	P-1	EXPOSED DECK
207	IT RM.	CONC-1	RB-1	P-1	EXPOSED DECK
208	DIGITAL MEDIA / GAMING	CPT-2	RB-1	P-2, P-4	ACT-3
209	DIGITAL MEDIA / GAMING STORAGE	CPT-2	RB-1	P-2	ACT-1
210	PRIVATE GROUP POD	CPT-2	RB-1	P-2, P-4	ACT-1
211	BREAK RM	CONC-1	RB-1	P-1	ACT-1
212	CONF. RM 3	CPT-1	RB-1	P-1	ACT-1
213	OPEN OFFICE	CPT-1	RB-1	P-1	ACT-1
214	VESTIBULE	CPT-1	RB-1	P-1	ACT-1
215	TOILET RM	TL-1	ASSOC. TL TRIM	P-2, TL-3	PTD. GYP - P-3
216	OFFICE	CPT-1	RB-1	P-1	ACT-1
217	OFFICE	CPT-1	RB-1	P-1	ACT-1
218	EXECUTIVE OFFICE	CPT-1	RB-1	P-1	ACT-1
219	PRIVATE TOILET RM	TL-1	ASSOC. TL TRIM	P-2, TL-3	PTD. GYP - P-3
220	OFFICE STORAGE	CPT-1	RB-1	P-1	ACT-1
221	OFFICE	CPT-1	RB-1	P-1	ACT-1
222	OFFICE	CPT-1	RB-1	P-1	ACT-1
223	CONF. RM. 2	CPT-1	RB-1	P-1	ACT-1
224	OFFICE CORRIDOR	CONC-1	RB-1	P-1	ACT-1
225	CO-WORKING SPACE 5	CPT-1	RB-1	P-1	ACT-1
226	CO-WORKING SPACE 4	CPT-1	RB-1	P-1	ACT-1
227	CO-WORKING SPACE 3	CPT-1	RB-1	P-1	ACT-1
228	PHONEBOOTH	CPT-1	RB-1	P-1	ACT-1
228	CLOSET	CONC-1	RB-1	P-1	ACT-1
229	CORRIDOR	CONC-1	RB-1	P-1	ACT-1



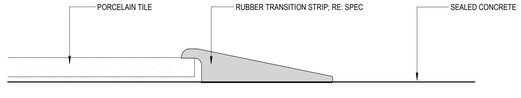
1 A213 A901 PORCELAIN TILE TO CARPET TILE TRANSITION
12" = 1'-0"



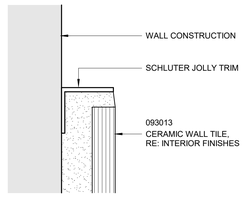
2 A213 A901 RUBBER FLOOR TO SEALED CONCRETE TRANSITION
12" = 1'-0"



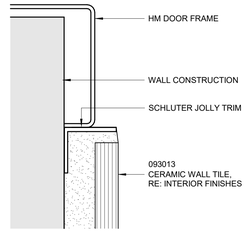
3 A213 A901 CARPET TILE TO SEALED CONCRETE TRANSITION
12" = 1'-0"



4 A213 A901 PORCELAIN TILE TO SEALED CONCRETE TRANSITION
12" = 1'-0"



5 A300 A901 CERAMIC WALL TILE WAINSCOT TRIM
12" = 1'-0"



6 A300 A901 CERAMIC WALL TILE @ HM DOOR FRAME
12" = 1'-0"

studio kiro

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025

DOMINIC A. WILLARD, JR. REG. No. 7529 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

INTERIOR SCHEDULES

SHEET NO. A901

LABORATORY ABBREVIATIONS

A	
&	AND
@	AT
ACC	ACCESSIBLE
ADJ	ADJUSTABLE, ADJACENT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT/ARCHITECTURAL
AW	ARCHITECTURAL WOODWORK (SEE ARCH)
B	
BAL	BALANCE
BDNG	BEDDING
BKG	BACKING
BLDG	BUILDING
BLKG	BLOCKING
BO_	BOTTOM OF
BOT	BOTTOM
BRKT	BRACKET
BSC	BIOLOGICAL SAFETY CABINET
BSL-#	BIOLOGICAL SAFETY LEVEL (NUMBER)
C	
C-_	CHANNEL-(SIZE)
CAB	CABINET(S)
CAV	CONSTANT AIR VOLUME
CER	CONTROLLED ENVIRONMENT ROOM
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CH	CANOPY HOOD
CHEM	CHEMICAL / CHEMISTRY
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSURE
CLR	CLEAR
COL	COLUMN
COMP	COMPUTER
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
CS	CUP SINK
CSWK	CASEWORK
CTR	COUNTER
CTRL	CONTROL(LED)
CYL	CYLINDER
D	
D	DEEP, DEPTH
DEG	DEGREE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING(S)
E	
E	EAST
EA	EACH
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMER	EMERGENCY
ENGR	ENGINEER
ENVIR	ENVIRONMENT(AL)
EP	ELECTRICAL PANEL (SEE ELECTRICAL)
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERIOR
F	
F	FILLER (VERIFY WIDTH)
F#	FILLER, (NUMBER) INCH WIDE
FB	FIRE BLANKET (SEE DIV 10 SECTION)
FD	FLOOR DRAIN (SEE PLUMBING)
FE	FIRE EXTINGUISHER/BRACKET (SEE DIV 10 SECTION)
FEC	FIRE EXTINGUISHER CABINET (SEE DIV 10 SECTION)
FH	FUME HOOD
FLAM	FLAMMABLE
FLR	FLOOR
FMFH	FLOOR MOUNT FUME HOOD
FRZ	FREEZER
FT	FOOT/FEET
FUT	FUTURE
G	
GA	GAUGE
GALV	GALVANIZED
GL	GLASS
GT	GROUT
GYP BD	GYPSUM BOARD
H	
H	HIGH/HEIGHT
HAZ	HAZARD(OUS)
HB	HOSE BIBB (SEE PLUMBING)
HCW	HOT/COLD WATER FIXTURE
HDW	HARDWARE
HORIZ	HORIZONTAL
HT	HEIGHT
HVY	HEAVY
I	
ID	INSIDE DIAMETER
IN	INCH(ES)
INC	INCUBATOR
INSUL	INSULATION
INT	INTERIOR
ISO	ISOLATION
J	
JT	JOINT
K	
KS	KNEE SPACE

L	
L-_	ANGLE-(SIZE)
L	LENGTH
LAB	LABORATORY
LAM	LAMINATE
LBS	POUNDS
LEV	LOCAL EXHAUST VENT
LIQ	LIQUID
LKR	LOCKER (SEE DIV 10 SECTION)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LAB TABLE
M	
MATL	MATERIAL
MAX	MAXIMUM
MC	MOBILE CART
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MKR BD	MARKER BOARD (SEE DIV 10 SECTION)
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MW	MOVEABLE WORKSTATION
N	
N	NORTH
NA	NOT APPLICABLE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSC	OVERHEAD SERVICE CARRIER
P	
PE	POLYETHYLENE
PHEN	PHENOLIC
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POS	POSITIVE
PP	POLYPROPYLENE
PROJ SCRN	PROJECTION SCREEN (SEE DIV 11 SECTION)
PTD	PAPER TOWEL DISPENSER (SEE DIV 10 SECTION)
PTFH	PASS THROUGH FUME HOOD
PTN	PARTITION
Q	
QTY	QUANTITY
R	
R=	RADIUS (DIMENSION)
RAD	RADIUS
RCP	REFLECTED CEILING PLAN (SEE ARCHITECTURAL)
RE	REFER TO
REC	RECESSED
REF	REFRIGERATOR
REQ	REQUIRE(D)
REQ'S	REQUIREMENTS
REV	REVISION
RH	RELATIVE HUMIDITY
RM	ROOM
S	
S	SOUTH
SBSTR	SUBSTRATE
SCF	SLOTTED CHANNEL FRAMING (SEE DIV 05 SECTION)
SD	SOAP DISPENSER (SEE DIV 10 SECTION)
SHR	SHOWER
SHT	SHEET
SHV	SHELF/SHELVING
SIM	SIMILAR
SK	SINK
SP	SPACE(S)
SQ	SQUARE
SPEC	SPECIFICATION
SS	SAFETY SHOWER / SAFETY STATION
SSM	SOLID SURFACE MATERIAL
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE/STRUCTURAL
T	
T	THICK(NESS)
TEMP	TEMPERATURE
TFH	TEACHING FUME HOOD
THK	THICK(NESS)
THRU	THROUGH
TK BD	TACK BOARD (SEE DIV 10 SECTION)
TO	TOP OF
TR	TROUGH
TS-#	TUBE STEEL-(SIZE)
TYP	TYPICAL
U	
UC	UNDER-COUNTER, UNDER CABINET
UCL	UNDER-CABINET LIGHT
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	
VAR	VARIES
VAV	VARIABLE AIR VOLUME
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
W	
W	WEST
W	WIDE/WIDTH
W/	WITH
W/O	WITHOUT
WD	WOOD
WT	WEIGHT
WW	WIREWAY (SEE ELECTRICAL)

EQUIPMENT MATRIX AND GENERAL LABORATORY SERVICE ABBREVIATIONS

ELECTRICAL UTILITY KEY

AP	ALARM POWER
D	DATA
DE	DEDICATED ELECTRICAL OUTLET
E	ELECTRICAL
EM	EMERGENCY POWER
GR	GROUNDED
HW	HARDWIRED
P	PLUG
SP	OPTIONAL STANDBY POWER
UPS	UNITERRUPTIBLE POWER SUPPLY

MECHANICAL UTILITY KEY

CC	CONDENSING/COOLING WATER
CHW	CHILLED WATER
EXH	EXHAUST

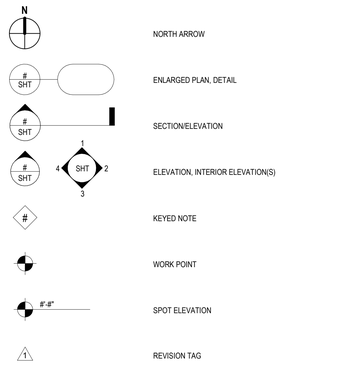
PLUMBING UTILITY KEY

AM	AIR, MEDICAL/BREATHING
AR	ARGON GAS
CA	COMPRESSED AIR
CO2	CARBON DIOXIDE
CS	CUP SINK W/ DRAIN
CW	COLD WATER
DH	DRENCH HOSE
DI	DEIONIZED WATER
DW	DISTILLED WATER
EW	EYEWASH
H	HYDROGEN
HE	HELIUM
HW	HOT WATER
HCW	HOT/COLD WATER
LN2	LIQUID NITROGEN
N	NITROGEN
NG	NATURAL GAS
O2	OXYGEN
PCW	PROCESSED CHILLED WATER
PR	PRE-RINSE
PW	PURE WATER
RO	REVERSE OSMOSIS WATER
S	STEAM
SG-	SPECIAL GAS-(CHEMICAL SYMBOL)
V	VACUUM
ZA	ZERO AIR

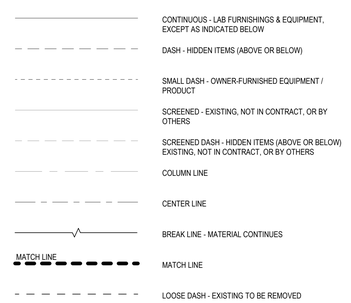
STANDARD ABBREVIATIONS

Y	YES
N	NO

REFERENCE SYMBOLS LEGEND



LINE TYPE LEGEND



LABORATORY PLAN SYMBOLS LEGEND

LABORATORY FURNISHINGS AND EQUIPMENT KEYED NOTES

SHOWN X

1	ELECTRICAL RACEWAY, SEE ELEC DWGS
2	ELEC CORD REELS, SEE ELEC DWGS
3	COMPRESSED AIR (CA) CORD REELS, SEE MECH DWGS
4	TUB SINK, SEE PLUMB DWGS
5	SAFETY STATION, SEE PLUMB DWGS
6	FURNITURE, SEE ARCH DWGS

LABORATORY FURNISHINGS & EQUIPMENT DRAWING LIST

QL001	ABBREVIATIONS, LEGENDS AND NOTES
QL010	SCHEDULES - LAB TABLES AND FUME HOODS
QL011	SCHEDULES - LAB SINKS AND SERVICE FITTINGS
QL012	SCHEDULES - LAB ACCESSORIES
QL020	LABORATORY EQUIPMENT MATRIX
QL030	LAB CASEWORK TYPES, LEGENDS AND NOTES
QL201	LEVEL 01 - OVERALL PLAN
QL202	LEVEL 02 - OVERALL PLAN
QL311	LEVEL 01 - COMPUTER / ROBOTICS ENLARGED PLAN
QL312	LEVEL 01 - MAKER SPACE / PROTOTYPE ENLARGED PLAN
QL313	LEVEL 01 - WOODWORKING / METAL SHOP ENLARGED PLAN
QL314	LEVEL 01 - CRAFT LAB ENLARGED PLAN
QL315	LEVEL 01 - WET LAB ENLARGED PLAN
QL316	LEVEL 02 - DIGITAL MEDIA ENLARGED PLAN
QL901	LABORATORY DETAILS - CASEWORK SECTIONS

GENERAL NOTES

A. DO NOT SCALE DRAWINGS, USE DIMENSIONS. DIMENSIONS NOTED "AS REQUIRED", "VERIFY", "VERIFY IN FIELD", "MATCH EXISTING", OR OTHER SIMILAR TERMS ARE TO VERIFIED BY THE CONTRACTOR. NOTIFY ARCHITECT OF DISCREPANCIES AND OBTAIN CLARIFICATION BEFORE PROCEEDING.
B. CONDITIONS SHOWN ARE APPROXIMATE BASED ON INFORMATION FURNISHED. NOTIFY ARCHITECT AND LABORATORY PLANNER OF DISCREPANCIES AND OBTAIN CLARIFICATION BEFORE PROCEEDING.
C. LAB CASEWORK SHALL BE METAL CASEWORK.
D. LAB COUNTER TOPS SHALL BE EPOXY, UNO.
E. LAB COUNTER TOP HEIGHT SHALL BE 34", UNO.
F. REFER TO SHEET QL-030 FOR OTHER LAB CASEWORK GENERAL NOTES.
G. WIRE SHELVING, WASTE BINS, AND OTHER SIMILAR FURNITURE/FURNISHING TYPE ITEMS WITH TEXT LABEL ARE SHOWN FOR REFERENCE ONLY (NIC).
H. REFER TO LABORATORY EQUIPMENT MATRIX FOR LAB EQUIPMENT REFERENCE INFORMATION.

SHEET NOTES

LEGEND

HERA laboratory planners

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS, LA 70127

PERMIT SET

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REVISIONS

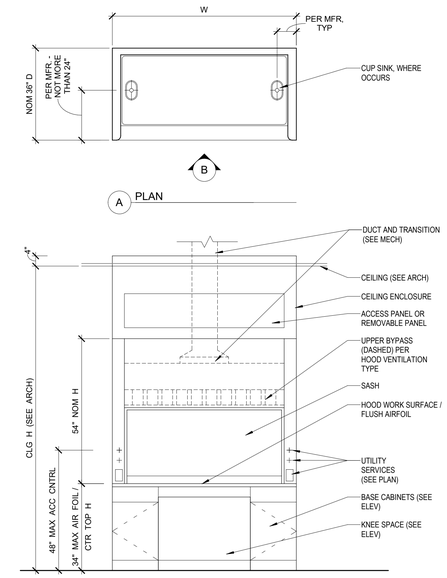
CARLOS PEREZ-RUBIO Reg. No. 9825 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: Project Number

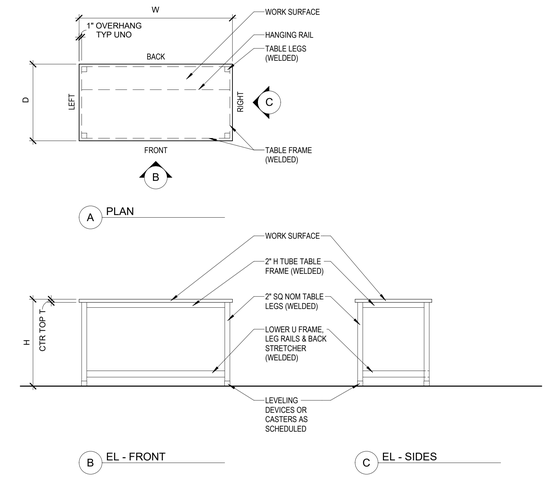
SHEET NAME

ABBREVIATIONS, LEGENDS AND NOTES

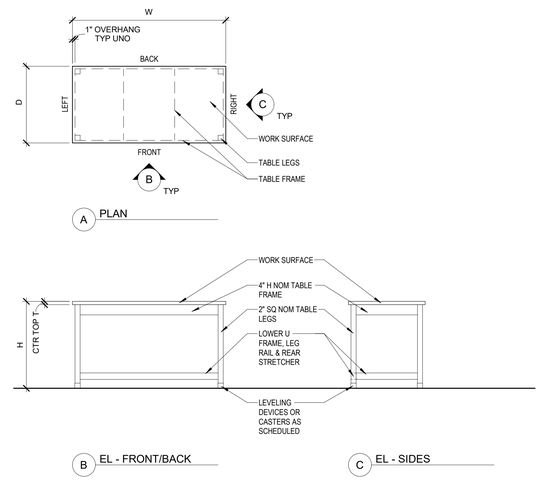
SHEET NO. QL001



3 FUME HOOD - TYPE D - ACCESSIBLE GENERAL PURPOSE
1/2" = 1'-0"



2 DETAIL - WELDED TABLE FRAME
1/2" = 1'-0"



1 DETAIL - STANDARD TABLE FRAME
1/2" = 1'-0"

LABORATORY FUME HOOD SCHEDULE

TAG	TYPE	VENTILATION	SASH TYPE	WORK SURFACE MATERIAL	WORK SURFACE HEIGHT (INCHES)	DETAIL	NOTES
FH-5D	GENERAL PURPOSE, ACCESSIBLE ADA COMPLIANT BENCH TYPE	VAV	VERTICAL	EPOXY	34	3 / QL010	1, 2

FUME HOOD SCHEDULE GENERAL NOTES:

A. ALL FUME HOODS MAY NOT BE USED. REFER TO LABORATORY PLANS.
B. REFER TO LAB PLAN TAG FOR UNIT WIDTH (#=FEET).
C. FUME HOOD DEPTH NOMINAL 36", UNO.
D. SEE MECHANICAL FOR EXHAUST CONNECTION, INCLUDING DUCT.
E. SEE PLUMBING AND ELECTRICAL FOR UTILITY SERVICE CONNECTIONS.
F. FUME HOOD WORK SURFACE SHALL BE 1-1/4" THICK EPOXY RESIN W/ RAISED (MARINE) EDGE, UNO.

FUME HOOD SCHEDULE KEYED NOTES:

1. THE COMBINATION OF BASE CABINETS, WORK SURFACE AND AIR FOIL AT ACCESSIBLE FUME HOODS SHALL NOT EXCEED 34" TO TOP OF WORK SURFACE OR AIR FOIL, WHICHEVER IS HIGHER.
2. ACCESSIBLE FUME HOOD MAXIMUM VERTICAL REACH TO OPERATING CONTROLS SHALL NOT EXCEED 48" AFF; MAXIMUM HORIZONTAL REACH TO SERVICE OUTLET SHALL NOT EXCEED 24" FROM FRONT OF HOOD.

LABORATORY TABLE SCHEDULE

TAG	WORK SURFACE (INCHES) W	D	H	TABLE FRAME MATERIAL	WORK SURFACE MATERIAL	SUSPENDED CABINET MATERIAL	TABLE FRAME TYPE	DETAIL	NOTES
LT-01	60	30	34	METAL	EPOXY	--	D	2 / QL010	3
LT-02	72	30	34	METAL	EPOXY	--	A	1 / QL010	
LT-03	60	36	34	METAL	EPOXY	--	A	1 / QL010	
LT-04	72	36	34	METAL	EPOXY	--	A	1 / QL010	

TABLE SCHEDULE GENERAL NOTES:

A. ALL LAB TABLES MAY NOT BE USED. REFER TO LABORATORY PLANS.
B. WORK SURFACE SHALL OVERHANG TABLE FRAME MINIMUM 1" EACH SIDE, UNO.
C. PROVIDE HEIGHT ADJUSTABLE LEVELING DEVICES AT EACH TABLE LEG, UNO.
D. TABLE FRAME MATERIAL SHALL BE METAL, UNO.

TABLE FRAME TYPE LEGEND

TYPE-A METAL TABLE FRAME
TYPE-D FULLY-WELDED TABLE FRAME

TABLE SCHEDULE KEYED NOTES:

1. POWER/DATA GROMMET (TYPE-#) AND CABLE TRUNKING, BACK-RIGHT LOCATION; LEFT REAR WHERE PLAN TAG SUFFIX "L" OCCURS.
2. PROVIDE H-FRAME STRETCHER ASSEMBLY IN LIEU OF STANDARD U-FRAME.
3. 4" DIA. SWIVEL/LOCKING CASTERS.
4. COMBINATION LEVELING CASTERS.
5. 3" OVERHANG FRONT AND BACK OF TABLE TO ALLOW FOR APPARATUS CLAMPING.
6. CABINET LOCKS AT DOORS/DRAWERS.
7. PENCIL DRAWER.
8. FIXED TABLE LOCATION; PROVIDE HOLD-DOWN CLIPS AT EACH LEG AND LEG SHOES.
9. UPRIGHT ROD ASSEMBLY AND CROSS-BAR.

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

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WDG Project No: Project Number

SHEET NAME
SCHEDULES - LAB TABLES AND FUME HOODS

SHEET NO. QL010

LABORATORY SINK SCHEDULE

TAG	SINK TYPE (COMPARTMENT)	NOMINAL COMPARTMENT SIZE (INCHES)			MATERIAL	MOUNTING	NOTES
		W	D	H			
LS-01	SINGLE	25	15	10	EPOXY	DROP-IN	
LS-02	SINGLE	25	15	5	EPOXY	DROP-IN	1
LS-03	SINGLE	25	15	18	EPOXY	DROP-IN	
LS-31	CUP SINK	6	3	4	EPOXY	DROP-IN	2, 3

LAB SINK SCHEDULE GENERAL NOTES:

A. NOT ALL SINK TYPES ARE USED. REFER TO LAB PLANS.
B. REFER TO DETAIL 1 / QL011 FOR TYPICAL SINK SERVICE FITTING MOUNTING CONDITIONS.
C. EPOXY SINKS, PROVIDE WITH CORNER DRAIN.
D. STAINLESS STEEL SINKS, PROVIDE WITH CENTER DRAIN.

LAB SINK SCHEDULE KEYED NOTES:

1. ACCESSIBLE SINK.

SERVICE FITTING SCHEDULE

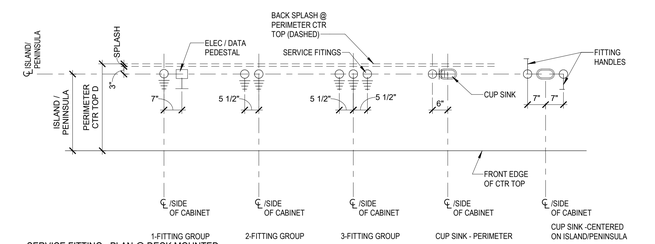
SERVICE TAG	SPECIFICATION SECTION	DESCRIPTION	MOUNTING LOCATION	BASIS OF DESIGN		NOTES
				MANUFACTURER	MODEL NUMBER	
01 WATER SERVICE FITTING						
HC-1	12 35 53	LABORATORY MIXING FAUCET, DECK MOUNTED, 6" RIGID/SWING VACUUM BREAKER GOOSENECK, WRIST BLADE HANDLES	BENCH	WATERSAVER	L414VB-BH	FURNISH REMOVABLE SERRATED HOSE END
02 GAS SERVICE FITTING						
CA-1	12 35 53	LABORATORY BALL VALVE ASSEMBLY, DECK MOUNTED SINGLE	BENCH	WATERSAVER	L4200-131WSA	--
CA-3	12 35 53	LABORATORY BALL VALVE ASSEMBLY, DECK MOUNTED DOUBLE 180	BENCH	WATERSAVER	L4200-132SWSA	--
V-1	12 35 53	LABORATORY BALL VALVE ASSEMBLY, DECK MOUNTED SINGLE	BENCH	WATERSAVER	L4200-131WSA	--
04 SAFETY SERVICE FITTING						
DH-1	12 35 53	EYEWASH/DRENCH HOSE UNIT, DECK MOUNTED, WITH BACKFLOW PREVENTER AND HOSE GUIDE	BENCH	WATERSAVER	EW1022BP-HG	--
EW	12 35 53	EYEWASH, DECK MOUNTED, AUTOFLOW 90 DEGREE SWING-DOWN	PANEL	WATERSAVER	EW848	COORDINATE WITH ADJACENT PLUMBING FIXTURES FOR SPRAY-HEAD LOCATION.
EW-1	12 35 53	EYEWASH, DECK MOUNTED, AUTOFLOW 90 DEGREE SWING-DOWN	BENCH	WATERSAVER	EW849LH-R	COORDINATE WITH ADJACENT PLUMBING FIXTURES FOR SPRAY-HEAD LOCATION.

SERVICE FITTINGS SCHEDULE GENERAL NOTES:

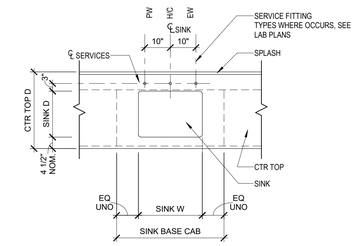
A. REFER TO LABORATORY PLANS AND ELEVATIONS FOR SERVICE FITTING LOCATIONS.

SERVICE FITTINGS SCHEDULE KEYED NOTES:

1. ------



2 SERVICE FITTING - PLAN @ DECK MOUNTED FITTINGS
1/2" = 1'-0"



1 SERVICE FITTINGS - PLAN @ LAB SINKS
1/2" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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WDG Project No: Project Number

SHEET NAME

SCHEDULES - LAB SINKS AND SERVICE FITTINGS

SHEET NO. QL011

LABORATORY ACCESSORIES SCHEDULE

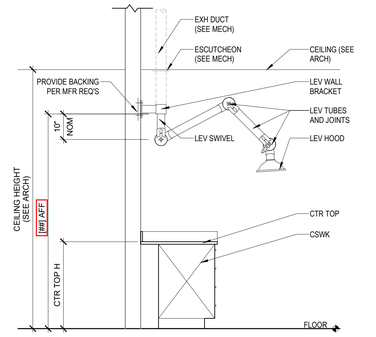
TAG	SPECIFICATION SECTION	DESCRIPTION	NOMINAL UNIT SIZE (IN)			BASIS OF DESIGN		COMMENTS	DETAIL	NOTES
			W	D	H	MANUFACTURER	MODEL NUMBER			
LA-A	12 40 53	GAS CYLINDER BRACKET	12"	11"	36"	SAFE-T-RACK SYSTEMS, INC.	SAFE-T-RACK BLOCK, MODEL CB-1C (HIGH), AND MODEL CB-1 (LOW)	TWO BRACKETS PER CYLINDER; 1-HIGH W/ STRAP AND CHAIN; 1-LOW W/ STRAP		
LA-F	12 40 53	45 GALLON, 2 SHELVES, 2 DOOR SELF-CLOSE, FLAMMABL SPECIAL PURPOSE SAFETY CABINET, SURE-GRIP EX, YELLOW	43"	18"	65"	JUSTRITE	894520		2 / QL012	
LA-M	12 40 53	LAB COAT HOOKS - WALL MOUNTED	36 1/2"	3 1/2"	5"	GLOBAL INDUSTRIAL	695312	BLACK	3 / QL012	
LE-A2	12 40 53	LOCAL EXHAUST VENT				MOVEX	ME	DOME HOOD; ARTICULATING ARM, WALL MOUNTED	4 / QL012	
PB-A	12 35 53	PEG BOARD - TYPE A	24"	1"	36"	BY CASEWORK MFG.	BY CASEWORK MFG.			
WS-4824	12 40 53	WIRE SHELVING	48"	24"	86"	METRO	SUPER ERECTA	BLACK EPOXY	- / ---	
WS-6018	12 40 53	WIRE SHELVING	60"	18"	86"	METRO	SUPER ERECTA	BLACK EPOXY		
WS-6024	10 56 13	WIRE SHELVING	60"	24"	86"	METRO	SUPER ERECTA	BLACK EPOXY	1 / QL012	
WS-7224	12 40 53	WIRE SHELVING	72"	30"	86"	METRO	SUPER ERECTA	BLACK EPOXY		

LABORATORY ACCESSORIES SCHEDULE GENERAL NOTES:

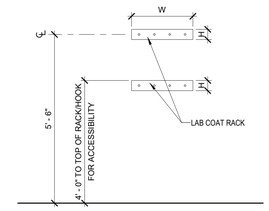
A. FIRST GENERAL NOTE GOES HERE.
B. SECOND GENERAL NOTE GOES HERE.

LABORATORY ACCESORIES SCHEDULE KEYED NOTES:

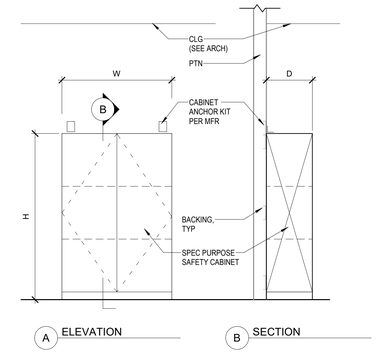
1. FIRST KEYED NOTE GOES HERE.
2. SECOND KEYED NOTE GOES HERE.



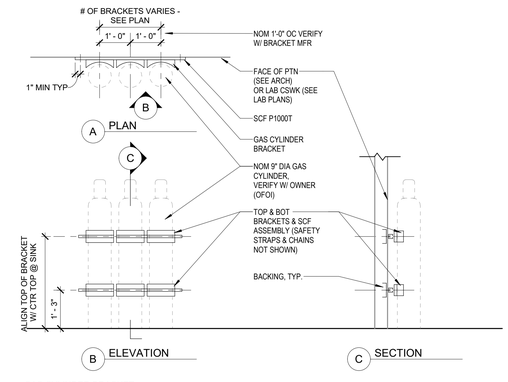
5 LOCAL EXHAUST SNORKEL - TYPE A2
1/2" = 1'-0"



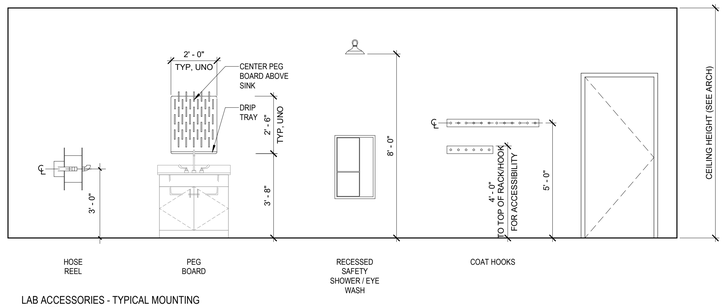
4 LAB COAT RACK
1/2" = 1'-0"



3 SPECIAL PURPOSE SAFETY CABINET - FLAMMABLE/HAZARDOUS
1/2" = 1'-0"



2 GAS CYLINDER BRACKET
1/2" = 1'-0"



1 LAB ACCESSORIES - TYPICAL MOUNTING HEIGHTS
3/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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WDG Project No: Project Number

SHEET NAME

SCHEDULES - LAB ACCESSORIES

SHEET NO. QL012

LABORATORY EQUIPMENT MATRIX OFCI

EQUIPMENT INFORMATION						TRACKING DATA					DIMENSIONS								SPECIAL REQUIREMENTS			MECHANICAL						ELECTRICAL/DATA							PLUMBING							
GROUP NAME	EQUIPMENT NUMBER	EQUIPMENT ABBREVIATION	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NUMBER	FURNISHED BY	MOUNTING LOCATION	NEW	NEW ROOM NUMBER AND NAME	QUANTITY	DIAMETER (IN)	WIDTH (IN)	DEPTH (IN)	HEIGHT (IN)	CLEARANCE (FRONT)	CLEARANCE (BACK)	CLEARANCE (SIDE)	CLEARANCE (TOP)	WEIGHT (LBS)	REMARKS/ADJACENCIES	TESTING PROCESS	VIBRATION	SUPPLY	EXHAUST	CONNECTION	CFM (CUBIC FEET PER MINUTE)	HEAT (BTU PER HOUR)	UTILITIES	# OF OUTLETS	VOLTAGE	AMPERAGE	PHASE	RECEPTACLE TYPE	WATTAGE	OTHER ELECTRICAL UTILITIES	DATA CONNECTION	DRAIN	WASTE	UTILITIES	REGULATOR	FITTING TYPE (INLET/OUTLET)	FURNISHED BY (CF, OF)	INSTALLED BY (CI, OI)	PSI RANGE
CRAFT LAB	CL001	SEW MACHINE	SEWING MACHINE	BERNINA	B790 PRO	OFCI	B	YES	CRAFT LAB	1	0"	23"	9"	15"	0"	0"	0"	1"		FOOT PEDAL CONTROL ON FLOOR	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0	0	0	0	0	0	0	0	0	0
CRAFT LAB	CL002	OVERLOCK	OVERLOCK/COVERSTITCH COMBO	BERNINA	L890	OFCI	B	YES	CRAFT LAB	1	0"	21"	9"	14"	0"	0"	0"	1"		FOOT PEDAL CONTROL ON FLOOR	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0	0	0	0	0	0	0	0	0	0
CRAFT LAB	CL003	HEAT PRESS	HEAT PRESS	VEVOR	TL4060-1	OFCI	B	YES	CRAFT LAB	1	0"	25"	24"	15"	0"	0"	0"	1"		HEIGHT IS WHEN CLOSED. WILL NEED 36" MIN. CLR. ABOVE TO OPEN	0	0	0	0	0	0	0	0	1	110	0	0	P	1700 W	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL004	CNC EMBROID	CNC EMBROIDERY MACHINE	BERNINA	E 16 PRO	OFCI	B	YES	CRAFT LAB	1	0"	21"	29"	18"	0"	0"	0"	1"		FOOT PEDAL CONTROL ON FLOOR	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL005	KILN	FRONT LOADING KILN	L&L KILNS	eFL2635-208-3P	OFCI	F	YES	CRAFT LAB	1	0"	46"	41"	73"	40"	0"	8"	1"		--	0	0	0	0	0	0	0	0	1	208	61.1	3	P	W	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL006	LAMINATION	LAMINATION	D&K	Minikote 27" LAMINATOR W/ KEY LOCK	OFCI	B	YES	CRAFT LAB	1	0"	34"	15"	20"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	W	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL008	BIN ORG	CLOSED BIN ORGANIZER TALL CASE	ULINE	H-4919GR	OFCI	F	YES	CRAFT LAB	1	0"	36"	12"	75"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL010	ENGRVR MACHINE	ENGRAVING MACHINE	VEVOR	A7 10W	OFCI	B	YES	CRAFT LAB	1	0"	26"	23"	11"	0"	0"	0"	1"		POWER SUPPLY IS A PORTABLE CHARGER	0	0	0	0	0	0	0	0	1	12V	2.2	0	P	0	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL011	LASER ENGRVR	PORTABLE LASER ENGRAVER	VEVOR	Z3	OFCI	B	YES	CRAFT LAB	1	0"	6"	9"	4"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL012	DRY RACK	PORTABLE DRYING RACK	PAINTLINE	PDRTT	OFCI	B	YES	CRAFT LAB	1	0"	16"	32"	36"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP001	MINI CNC	MINI CNC	HAAS	MINI MILL-EDU	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	84"	88"	101"	36"	36"	36"	1"		--	0	0	0	0	0	0	0	AIR	0	220	40	1	P	W	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP002	3D PRNT	3D PRINTER	BAMBU LAB	X1E	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	16"	16"	18"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	100-240	0	1	P	W	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP003	3D PRNT	3D PRINTER	ULTIMAKER	S7	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	20"	23"	32"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	100-240	0	0	P	MAX 600W	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP004	3D PRNT	3D PRINTER	PRUSA	MK4S	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	18"	21"	17"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP006	MILL	MILL	EMCO	E350	OFCI	F	YES	MAKERSPACE/PROTOTYPE	1	0"	67"	63"	87"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP008	CAL	DIGITAL CALIPER	MITUTOYO	500-196-60	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	10"	3"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP009	MICROMET	MICROMETER	MITUTOYO	293-340-30	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	5"	1"	5"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP010	VICE	VICE	0	0	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	18"	20"	24"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP011	VICE	VICE	0	0	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	18"	20"	24"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP012	VICE	VICE	0	0	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	18"	20"	24"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP014	L CUT	LASER CUTTER	EPILOG	FUSION PRO 32	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	56"	35"	41"	0"	0"	0"	1"		REQUIRES VENT TO OUTSIDE OR TO A FILTRATION UNIT	0	0	0	2	0	0	0	0	1	110-240	0	1	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS001	VERT MILL	VERTICAL MILL DRILL W/ STAND	GRIZZLY	G0704	OFCI	F	YES	METAL SHOP	1	0"	38"	25"	31"	0"	30"	10"	1"		--	0	0	0	0	0	0	0	0	1	110	15	1	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS002	DRILL PRESS	DRILL PRESS	GRIZZLY	G0925	OFCI	B	YES	METAL SHOP	1	0"	9"	18"	24"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS003	BAND SAW	BAND SAW	GRIZZLY	G0948	OFCI	F	YES	METAL SHOP	1	0"	28"	22"	59"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	1	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS004	BELT GRIND	BELT AND DISC GRINDER	GRIZZLY	G1183	OFCI	B	YES	METAL SHOP	1	0"	33"	17"	30"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	110	15	0	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS005	TBL BAND SAW	TABLE TOP BAND SAW	GRIZZLY	G0803Z	OFCI	F	YES	METAL SHOP	1	0"	21"	17"	30"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	15	1	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS006	BENCH GRIND	BENCH GRINDER	GRIZZLY	G0865	OFCI	B	YES	METAL SHOP	1	0"	16"	14"	15"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	15	0	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS007	HZ MITER SAW	HORIZONTAL MITERING SAW	GRIZZLY	T31635	OFCI	B	YES	METAL SHOP	1	0"	37"	46"	27"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	110	20	1	1-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS008	CHOP SAW	CHOP SAW	DEWALT	D28730	OFCI	B	YES	METAL SHOP	1	0"	14"	23"	18"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	15	0	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS009	METAL LATHE	METAL LATHE COMBO MILL	GRIZZLY	G4015Z	OFCI	B	YES	METAL SHOP	1	0"	23"	42"	35"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	110	8.7	1	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS010	CNC LATHE	CNC LATHE	GRIZZLY	G0884	OFCI	F	YES	METAL SHOP	1	0"	75"	47"	83"	18"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	220	15	3	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS012	BLAST CAB	ABRASIVE BLAST CABINET	GRIZZLY	G0707	OFCI	F	YES	METAL SHOP	1	0"	41"	36"	65"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	110	15	1	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS013	TUBE BEND	MANUAL TUBE BENDER	GRIZZLY	T30860	OFCI	F	YES	METAL SHOP	1	0"	12"	12"	45"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS014	DUST COLL	DUST COLLECTOR	GRIZZLY	G0548Z	OFCI	F	YES	METAL SHOP	1	0"	38"	32"	71"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE001	SOLDER IRON	SOLDERING IRONS	HAKKO	FX-888D	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	2"	8"	2"	0"	0"	0"	1"		INCLUDES IRON HOLDER	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE002	OSCILO	OSCILOSCOPE AND FUNCTION GENERATOR	POSCOPE	MEGA50	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	3"	2"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE003	M METER	MULTIMETER	FLUKE	87V	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	0	0"	8"	4"	3"	0"	0"	0"	1"		BATTERY POWERED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE004	ESD SCRDRIVER	8 PC ESD-SAFE SCREWDRIVER SET IN POUCH	WIHA	PICOFINISH PRECISION	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	0	0"	10"	3"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE005	PCB MILL	PCB MILL	ACCURATE	A636	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	24"	19"	13"	0"	0"	0"	1"		NEEDS COMPUTER CONNECTION FOR CONTROL AND EDIT SOFTWARE	0	0	0	0	0	0	0	0	1	100-240	0	0	P	355W	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE006	OSCILO	OSCILOSCOPE AND FUNCTION GENERATOR	POSCOPE	MEGA50	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	3"	2"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE007	OSCILO	OSCILOSCOPE AND FUNCTION GENERATOR	POSCOPE	MEGA50	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	3"	2"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE008	OSCILO	OSCILOSCOPE AND FUNCTION GENERATOR	POSCOPE	MEGA50	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	3"	2"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS001	TBL SAW	TABLE SAW	DEWALT	DWE7485	OFCI	B	YES	WOODSHOP	1	0"	19"	19"	13"	5"	5"	5"	1"		--	0	0	0	0	0	0	0	0	1	230	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS002	MTR SAW	SLIDING COMPOUND MITER SAW	DEWALT	DWS780	OFCI	B	YES	WOODSHOP	1	0"	23"	33"	20"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS003	VERT SAW	VERTICAL BAND SAW	GRIZZLY	G0621X	OFCI	F	YES	WOODSHOP	1	0"	30"	30"	73"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	220	15	1	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS004	DRILL PRESS	DRILL PRESS	DEWALT	DWE1622K	OFCI	B	YES	WOODSHOP	1	0"	7"	23"	20"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS005	DISC SAND	DISC SANDER	GRIZZLY	G0702	OFCI	B	YES	WOODSHOP	1	0"	17"	27"	17"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS006	PNL SAW	PANEL SAW	GRIZZLY	T33598	OFCI	F	YES	WOODSHOP	1	0"	120"	11"	83"	0"	0"	0"	1"		PROVIDE WITH STAND	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS007	SCROLL SAW	SCROLL SAW	DEWALT	DW788	OFCI	B	YES	WOODSHOP	1	0"	20"	30"	13"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS008	CIRC SAW	CIRCULAR SAW	GRIZZLY	T30293X1	OFCI	B	YES	WOODSHOP	1	0"	8"	12"	15"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS009	VICE	VICE	DEWALT	DXMF10BV	OFCI	B	YES	WOODSHOP	1	0"	10"	23"	9"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS010	WOOD LATHE	POWERMATIC WOOD LATHE	POWERMATIC	4224B	OFCI	F	YES	WOODSHOP	1	0"	89"	28"	65"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	220	0	1	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS011	DUST COLL	DUST COLLECTOR	DEWALT	DCV585B	OFCI	F	YES	WOODSHOP	1	0"	14"	22"	13"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS012	TRACK SAW	TRACK SAW	DEWALT	DWS520K / DCS520T1	OFCI	B	YES	WOODSHOP	1	0"	13"	19"	13"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS013	ROUTER	ROUTER	DEWALT	DCW600B	OFCI	B	YES	WOODSHOP	1	0"	7"	9"	6"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS014	JIGSAW	JIGSAW	DEWALT	DCS334B	OFCI	B	YES	WOODSHOP	1	0"	9"	11"	9"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS015	PLANER	PLANER	DEWALT	DCP580B	OFCI	B	YES	WOODSHOP	1	0"	8"	16"	7"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS016	ORB SAW	RANDOM ORBITAL SAW	DEWALT	DCW210B	OFCI	B	YES	WOODSHOP	1	0"	6"	8"	6"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0

LABORATORY EQUIPMENT MATRIX CFCI

EQUIPMENT INFORMATION						TRACKING DATA					DIMENSIONS								SPECIAL REQUIREMENTS			MECHANICAL						ELECTRICAL/DATA							PLUMBING							
GROUP NAME	EQUIPMENT NUMBER	EQUIPMENT ABBREVIATION	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NUMBER	FURNISHED BY	MOUNTING LOCATION	NEW	NEW ROOM NUMBER AND NAME	QUANTITY	DIAMETER (IN)	WIDTH (IN)	DEPTH (IN)	HEIGHT (IN)	CLEARANCE (FRONT)	CLEARANCE (BACK)	CLEARANCE (SIDE)	CLEARANCE (TOP)	WEIGHT (LBS)	REMARKS/ADJACENCIES	TESTING PROCESS	VIBRATION	SUPPLY	EXHAUST	CONNECTION	CFM (CUBIC FEET PER MINUTE)	HEAT (BTU PER HOUR)	UTILITIES	# OF OUTLETS	VOLTAGE	AMPERAGE	PHASE	RECEPTACLE TYPE	WATTAGE	OTHER ELECTRICAL UTILITIES	DATA CONNECTION	DRAIN	WASTE	UTILITIES	REGULATOR	FITTING TYPE (INLET/OUTLET)	FURNISHED BY (CF, OF)	INSTALLED BY (CI, OI)	PSI RANGE
WET LAB	GW-01	GW	GLASSWARE WASHER	LABCONCO	FLASKSCRUBBER 4420321	CFCI	F	YES	WET LAB	1	0"	25"	28"	32 3/32"	0"	0"	0"	1"		0	0	0	0	0	0	0	0	0	1	115	0	1	0	0	0	DE 20AMP CIRCUIT	0	0	HW	0	0	0	0	0

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS, LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CDS
01/19/2026	PERMIT SET

REVISIONS

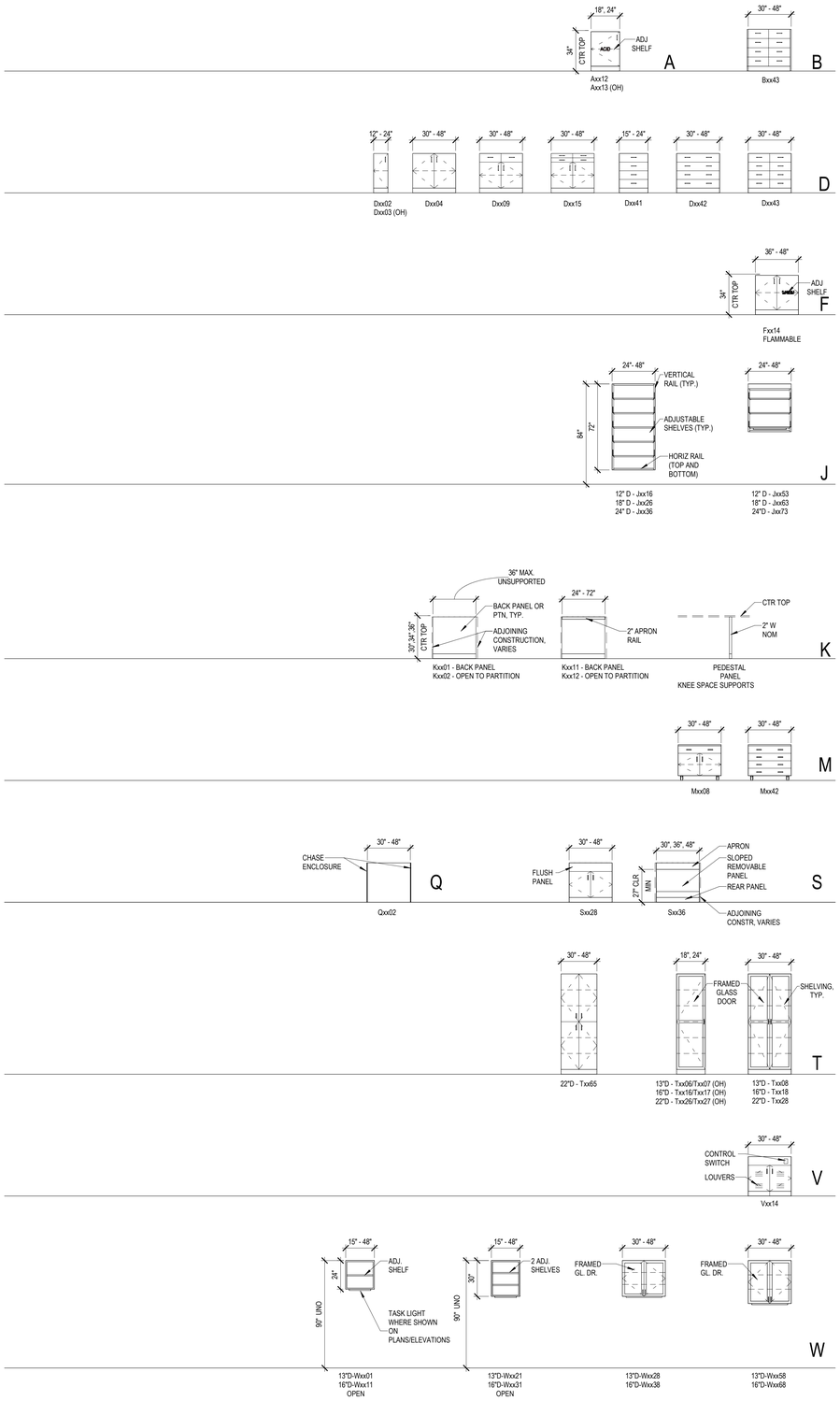
CARLOS PEREZ-RUBIO
Reg. No. 9825
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: Project Number

SHEET NAME

LABORATORY EQUIPMENT MATRIX

SHEET NO. QL020



CASEWORK LEGEND

CASEWORK TYPE _____ B 36 01

WIDTH INCHES _____

DRAWER/DOOR CONFIGURATION _____

CASEWORK TYPES

TAG	DESCRIPTION	TYPICAL DETAILS
A	CORROSIVES STORAGE CABINET (ACIDS, BASES)	7 / QL901
B	STANDING HEIGHT BASE CABINET - 36"	1 / QL901
C	ISLAND CORE	AS NOTED
D	ACCESSIBLE HEIGHT BASE CABINET - 34"	1 / QL901
E	SUSPENDED CABINET	AS NOTED
F	FLAMMABLE / HAZARDOUS STORAGE CABINET	- / ---
H	HOOD CABINET	- / ---
J	ADJUSTABLE SHELVING SYSTEMS	6 / QL901
K	KNEE SPACES	4 / QL901
L	SITTING HEIGHT BASE CABINET - 30"	- / ---
M	MOBILE CABINETS	9 / QL901
Q	EQUIPMENT SPACE	5 / QL901
S	SINK BASE CABINET	3 / QL901
T	TALL CABINET	2 / QL901
W	WALL CABINET	1 / QL901
V	VACUUM PUMP CABINET	8 / QL901
Z	SPECIALITY CABINET	AS NOTED
LT	LAB TABLE	AS NOTED

CASEWORK GENERAL NOTES

A. NOT ALL CASEWORK TYPES ARE USED. REFER TO LABORATORY DRAWINGS.
B. LAB CASEWORK SHALL BE MODULAR, IN 3" INCREMENTS FOR UNITS UP TO 30" WIDE; 6" INCREMENTS FOR UNITS 30" TO 48" WIDE.
C. LAB CASEWORK BELOW FUME HOODS SHALL BE METAL LAB CASEWORK, UNO.
D. OVERALL COUNTERTOP LENGTH IS DETERMINED BY WIDTH OF CABINETS, FILLERS, OVERHANGS, AND/OR DIMENSIONS INDICATED. OVERALL DIMENSIONS SHALL GOVERN REGARDLESS OF MANUFACTURER'S STANDARD DIMENSIONS.
E. COUNTERTOPS SHALL OVERHANG BASE CABINETS 1" NOMINAL AT FRONT AND AT EXPOSED ENDS OF CABINETS, UNO. FRONT OVERHANG IS TO FACE OF CABINET DOOR REGARDLESS OF CABINET STYLE. WHEN OVERALL DIMENSIONS ARE INDICATED, THE OVERHANG IS INCLUDED.
F. AT WALL-TO-WALL CONDITIONS WITH OPEN KNEE-SPACE DIMENSION (K-##), DIMENSION SHALL BE DETERMINED IN THE FIELD. WHERE MORE THAN ONE OPEN KNEE-SPACE DIMENSION OCCURS, THE SPACE AVAILABLE SHALL BE EVENLY DISTRIBUTED.
G. PROVIDE FILLERS TO CLOSE SPACE BETWEEN CABINETS, FUME HOODS, AND ADJOINING CONSTRUCTION. AT WALL-TO-WALL CONDITIONS, VERIFY FILLER SPACE IN FIELD; SPACE SHALL BE EVENLY DISTRIBUTED. PROVIDE NOMINAL 3" WIDE FILLER AT PERPENDICULAR WALL CONDITIONS, UNO. PROVIDE 1" WALL FILLER BETWEEN TALL CABINETS AND THE ADJOINING BASE/UPPER/WALL CABINET.
H. COUNTERTOP HEIGHT IS NOMINAL, BASED ON LAB CASEWORK MANUFACTURER'S CABINET MODULE HEIGHT AND COUNTERTOP MATERIAL (WITHIN 3/4" OF REFERENCED HEIGHT) WHERE 34" HEIGHT IS INDICATED, COUNTERTOP HEIGHT SHALL NOT EXCEED 34" AFF. AT KNEE-SPACES WITH APRONS, CLEAR HEIGHT SHALL NOT BE LESS THAN 27".
I. MAINTAIN OVERALL NOMINAL HEIGHT OF COUNTERTOPS. BEGIN CASEWORK INSTALLATION AT HIGH POINT OF FLOOR AT EACH BENCH WITH CABINET LEVELERS SCREWED IN AS FAR AS POSSIBLE.
J. COUNTERTOP DEPTH AT WALL CONDITIONS SHALL BE 30" INCLUDING OVERHANG, UNO. COUNTERTOP DEPTH AT ISLAND/PENINSULA CONDITIONS SHALL BE 60", INCLUDING OVERHANGS, UNO.
K. FINISH EXPOSED-TO-VIEW COUNTERTOP EDGES, BACKS AND ENDS OF CURBS/SPLASHES.
L. PROVIDE SEALANT AT JOINT BETWEEN BUILDING CONSTRUCTION, AND COUNTERTOPS/CURBS/SPLASHES.
M. CASEWORK TYPE-A, CORROSIVES CABINETS (ACIDS AND BASES): [METAL LAB CASEWORK, UNO.] ACID STORAGE TYPICAL, UNO. REFER TO DRAWING NOTES FOR STORAGE CONTENTS OTHER THAN ACIDS, AND FOR DEDICATED STORAGE.
N. CASEWORK TYPE-F, FLAMMABLE/HAZARDOUS MATERIAL CABINETS: METAL LAB CASEWORK, UNO. REFER TO DRAWING NOTES FOR STORAGE CONTENTS OTHER THAN FLAMMABLE LIQUIDS, AND FOR DEDICATED STORAGE.
O. CASEWORK TYPE-H, HOOD CABINETS; METAL LAB CASEWORK, UNO.
P. CASEWORK TYPE-J, ADJUSTABLE SHELVING SYSTEM: ADJUSTABLE SHELVES FOR WALL RAIL AND BENCHTOP UPRIGHT SHELVING UNITS SHALL BE METAL SHELVES AND SHELF EDGE RETAINING RODS, UNO.
Q. CASEWORK TYPE-M, MOBILE CABINETS; PROVIDE MOBILE CABINETS WITH CASTERS AND 1" THICK EPOXY TOP, UNO.
R. CASEWORK TYPE-Q, EQUIPMENT SPACE: WIDTH INDICATED IS NOMINAL, VERIFY REQUIRED WIDTH WITH EQUIPMENT MANUFACTURER. WHERE EQUIPMENT HEIGHT RESULTS IN CLEAR SPACE BETWEEN COUNTERTOP AND TOP OF EQUIPMENT GREATER THAN 3/4", PROVIDE A FILLER/APRON TO MATCH ADJOINING CASEWORK. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR UTILITY SERVICES.
S. CASEWORK TYPE-T, TALL CABINETS; CASEWORK TYPE ELEVATIONS ILLUSTRATE FRAMED GLASS DOORS WITH HORIZONTAL MULLION. DOORS WITHOUT HORIZONTAL MULLION ARE ACCEPTABLE.

HERA laboratory planners

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS, LA 70127

PERMIT SET

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REVISIONS

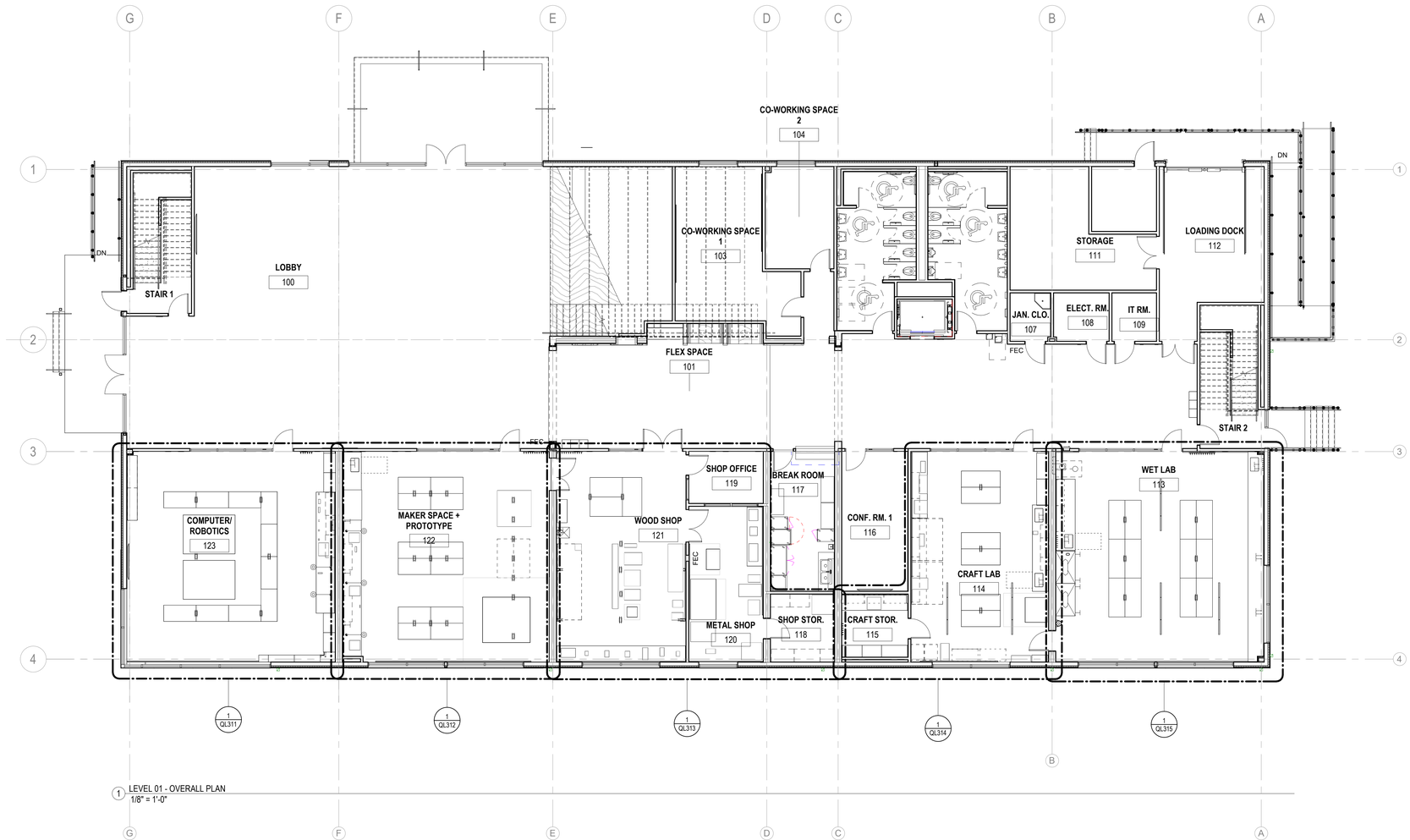
CARLOS PEREZ-RUBIO Reg. No. 9925 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: Project Number

SHEET NAME

LAB CASEWORK TYPES, LEGENDS AND NOTES

SHEET NO. QL030



1 LEVEL 01 - OVERALL PLAN
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

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Reg. No. 9925
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: Project Number

SHEET NAME
LEVEL 01 - OVERALL PLAN

SHEET NO. QL201

1 LEVEL 02 - OVERALL PLAN
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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REGISTERED ARCHITECT

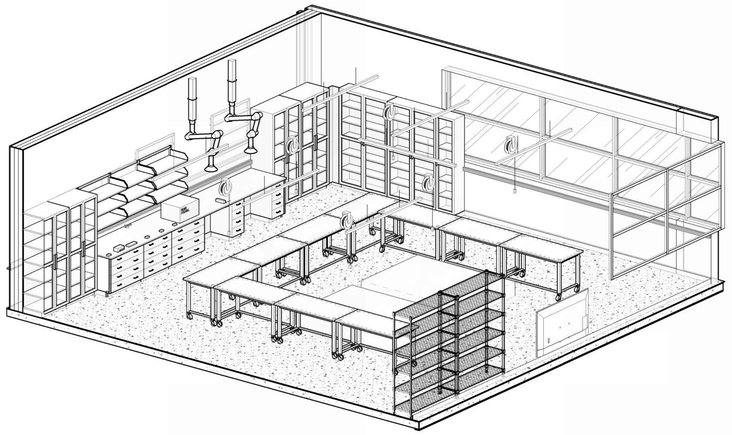
WDG Project No: Project Number

SHEET NAME

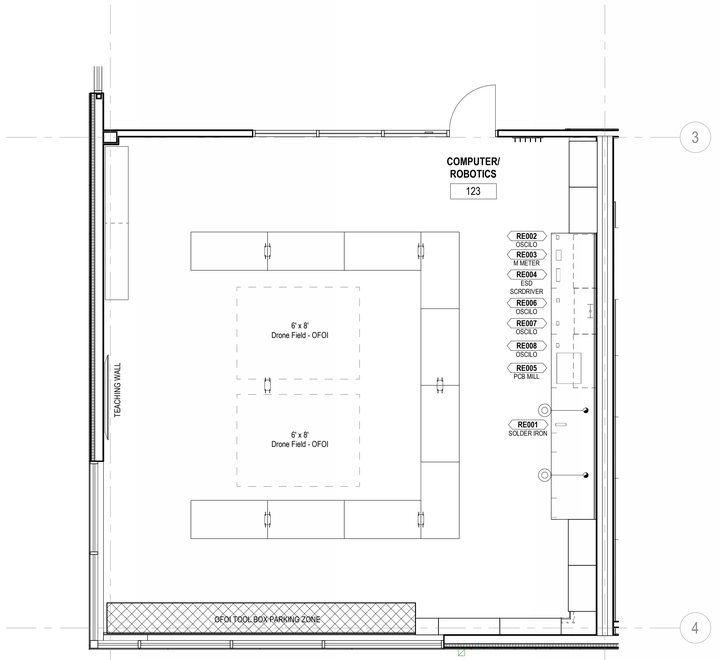
LEVEL 02 - OVERALL PLAN

SHEET NO. QL202

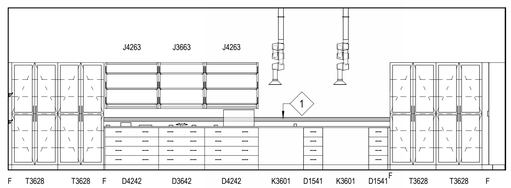
LABORATORY EQUIPMENT MATRIX QL311	
EQUIPMENT INFORMATION	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION
MP014	LASER CUTTER
RE001	SOLDERING IRONS
RE002	OSCILOSCOPE AND FUNCTION GENERATOR
RE003	MULTIMETER
RE004	8 PC ESD SAFE SCREWDRIVER SET IN POUCH
RE005	PCB MILL
RE006	OSCILOSCOPE AND FUNCTION GENERATOR
RE007	OSCILOSCOPE AND FUNCTION GENERATOR
RE008	OSCILOSCOPE AND FUNCTION GENERATOR



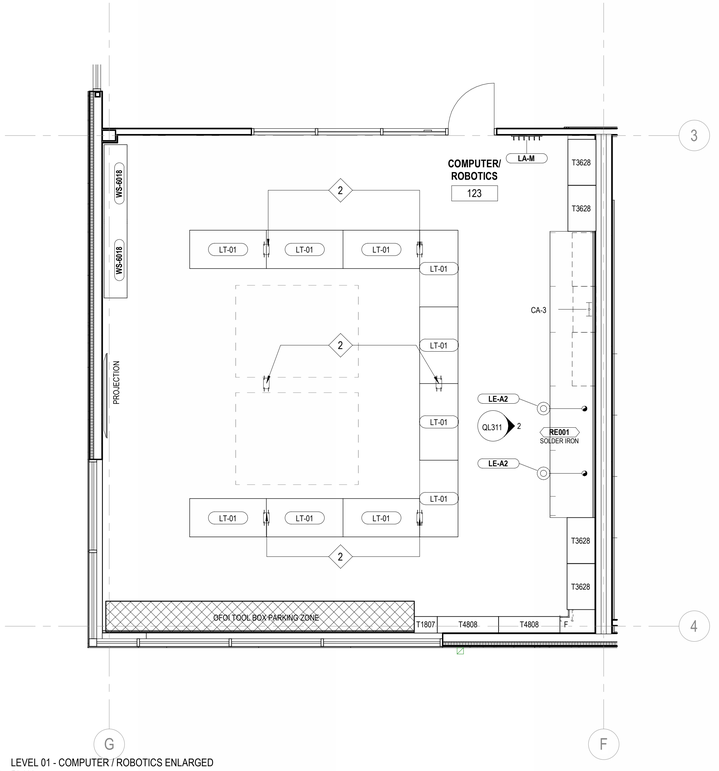
4 COMPUTER / ROBOTICS AXON



3 LEVEL 01 - COMPUTER / ROBOTICS EQUIPMENT PLAN
1/4" = 1'-0"



2 COMPUTER / ROBOTICS - EAST
1/4" = 1'-0"



1 LEVEL 01 - COMPUTER / ROBOTICS ENLARGED PLAN
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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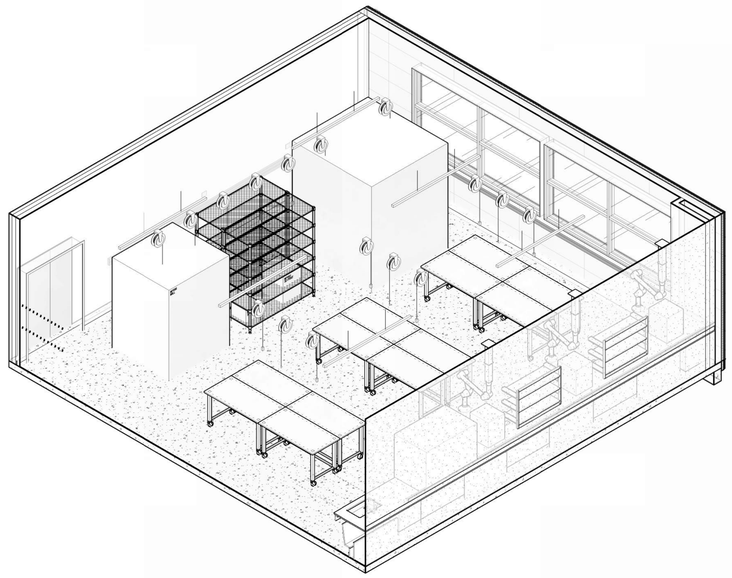
STATE OF LOUISIANA
REGISTERED ARCHITECT
01/19/26

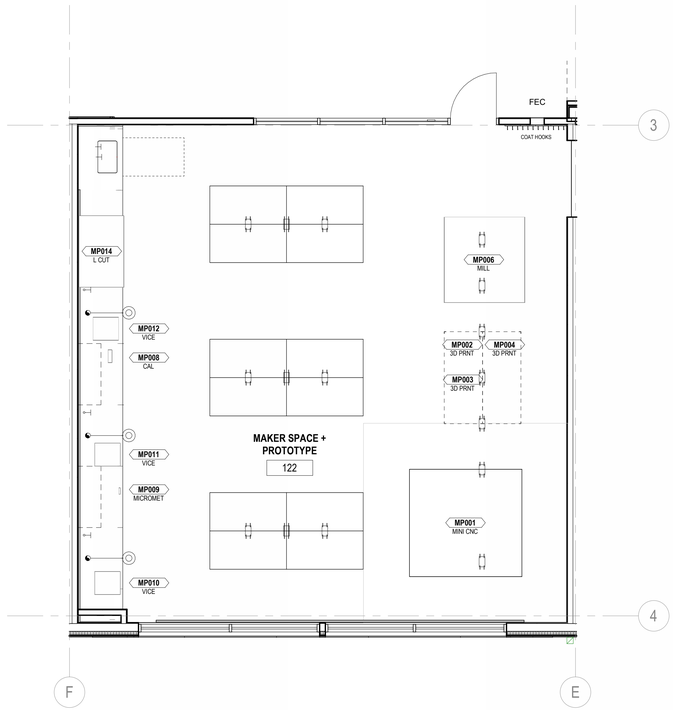
WDG Project No: Project Number

SHEET NAME
LEVEL 01 - COMPUTER / ROBOTICS ENLARGED PLAN

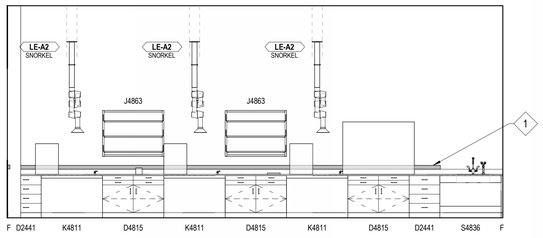
SHEET NO. QL311



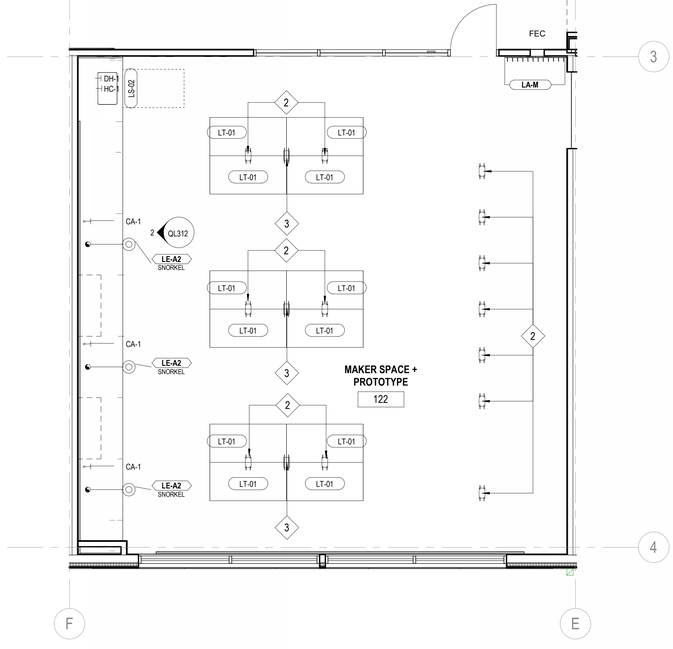
4 MAKERSPACE / PROTOTYPE AXON



3 LEVEL 01 - MAKER SPACE / PROTOTYPE EQUIPMENT PLAN
1/4" = 1'-0"



2 MAKERSPACE / PROTOTYPE - WEST
1/4" = 1'-0"



1 LEVEL 01 - MAKER SPACE / PROTOTYPE
ENLARGED PLAN
1/4" = 1'-0"

LABORATORY EQUIPMENT MATRIX QL312

EQUIPMENT INFORMATION	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION
MP001	MINI CNC
MP002	3D PRINTER
MP003	3D PRINTER
MP004	3D PRINTER
MP006	MILL
MP008	DIGITAL CALIPER
MP009	MICROMETER
MP010	VICE
MP011	VICE
MP012	VICE
MP014	LASER CUTTER

GENERAL NOTES

SHEET NOTES

LEGEND

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WILLARD DESIGN GROUP
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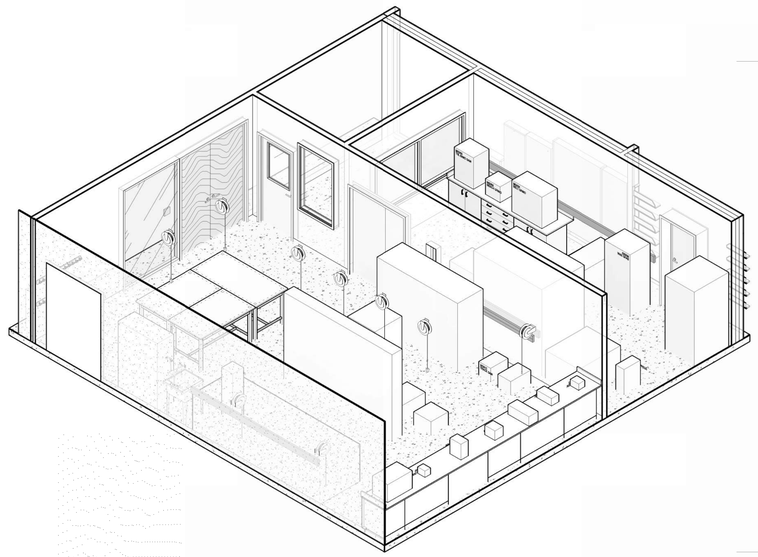
WDG Project No: Project Number

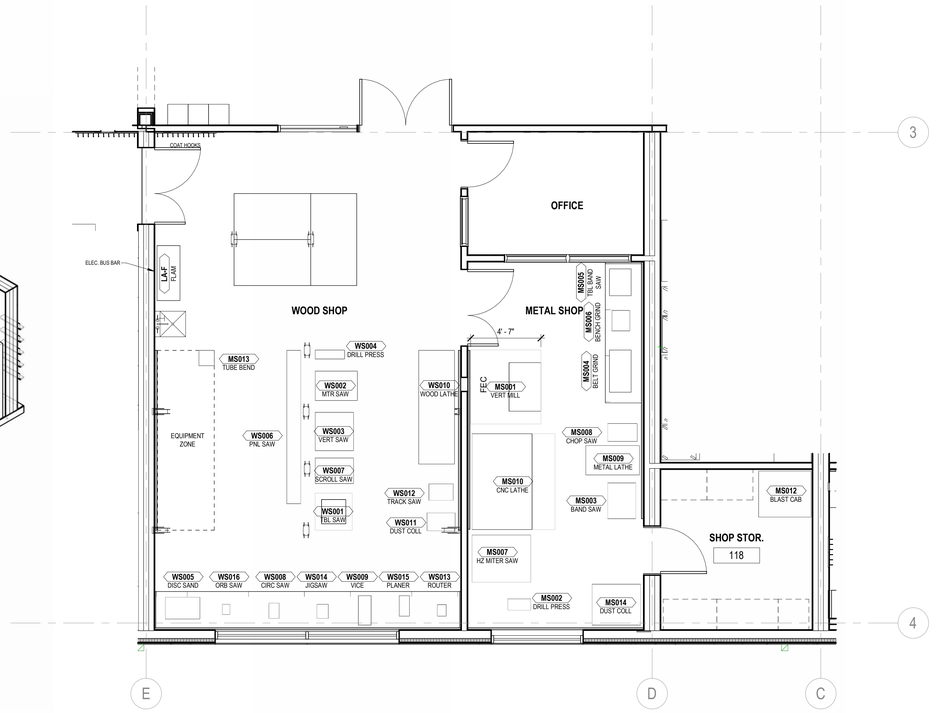
SHEET NAME

LEVEL 01 - MAKER SPACE / PROTOTYPE ENLARGED PLAN

SHEET NO. QL312



5 WOODWORKING / METAL SHOP AXON

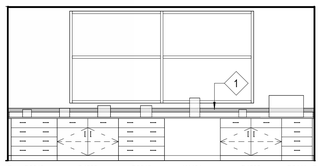


4 LEVEL 01 - WOODWORKING / METAL SHOP EQUIPMENT PLAN
1/4" = 1'-0"

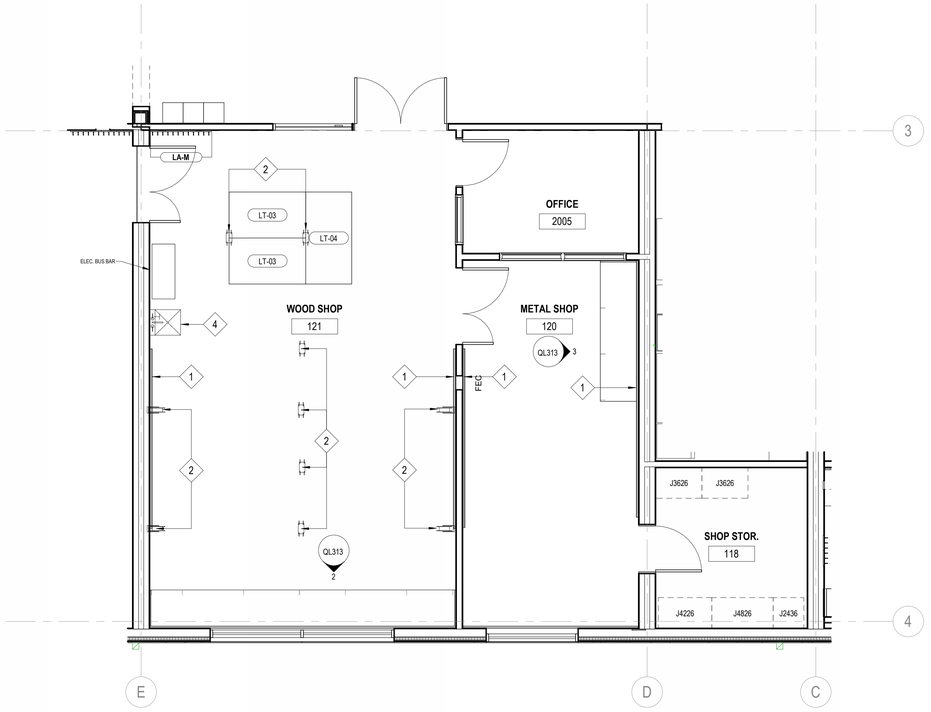
LABORATORY EQUIPMENT MATRIX QL313

EQUIPMENT INFORMATION	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION
MP001	MINI CNC
MP006	MILL
MS001	VERTICAL MILL DRILL W/ STAND
MS002	DRILL PRESS
MS003	BAND SAW
MS004	BELT AND DISC GRINDER
MS005	TABLE TOP BAND SAW
MS006	BENCH GRINDER
MS007	HORIZONTAL MITERING SAW
MS008	CHOP SAW
MS009	METAL LATHE COMBO MILL
MS010	CNC LATHE
MS012	ABRASIVE BLAST CABINET
MS013	MANUAL TUBE BENDER
MS014	DUST COLLECTOR
WS001	TABLE SAW
WS002	SLIDING COMPOUND MITER SAW
WS003	VERTICAL BAND SAW
WS004	DRILL PRESS
WS005	DISC SANDER
WS006	PANEL SAW
WS007	SCROLL SAW
WS008	CIRCULAR SAW
WS009	VICE
WS010	POWERMATIC WOOD LATHE
WS011	DUST COLLECTOR
WS012	TRACK SAW
WS013	ROUTER
WS014	JIGSAW
WS015	PLANER
WS016	RANDOM ORBITAL SAW

3 METAL SHOP - EAST ELEVATION
1/4" = 1'-0"



2 WOODWORKING / METAL SHOP - SOUTH
1/4" = 1'-0"



1 LEVEL 01 - WOODWORKING / METAL SHOP ENLARGED PLAN
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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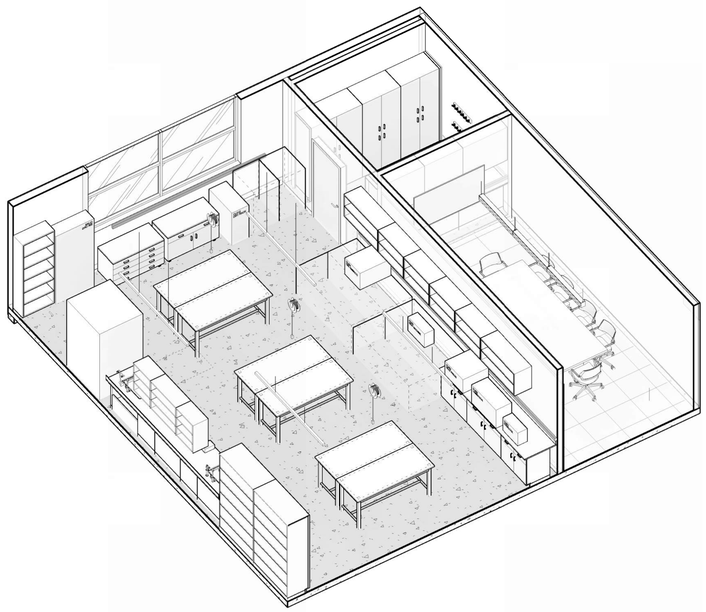
01/19/2026

WDG Project No: Project Number

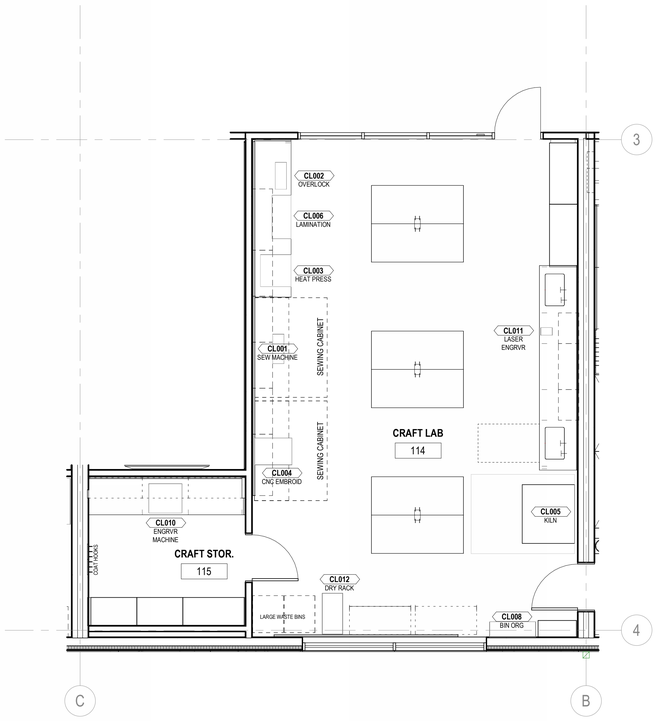
SHEET NAME

LEVEL 01 - WOODWORKING / METAL SHOP ENLARGED PLAN

SHEET NO. QL313



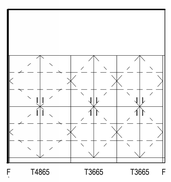
8 CRAFT LAB AXON



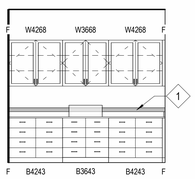
7 LEVEL 01 - CRAFT LAB EQUIPMENT PLAN
1/4" = 1'-0"

LABORATORY EQUIPMENT MATRIX QL314

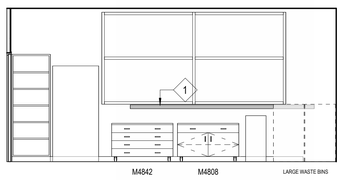
EQUIPMENT INFORMATION	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION
CL001	SEWING MACHINE
CL002	OVERLOCK/COVERSTICH COMBO
CL003	HEAT PRESS
CL004	CNC EMBROIDERY MACHINE
CL005	FRONT LOADING KILN
CL006	LAMINATION
CL008	CLOSED BIN ORGANIZER TALL CASE
CL010	ENGRAVING MACHINE
CL011	PORTABLE LASER ENGRAVER
CL012	PORTABLE DRYING RACK



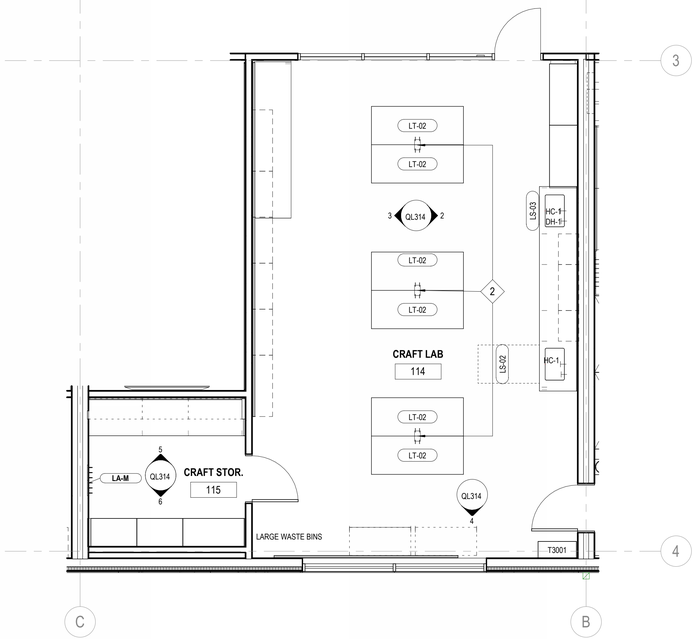
6 CRAFT STOR. - SOUTH
1/4" = 1'-0"



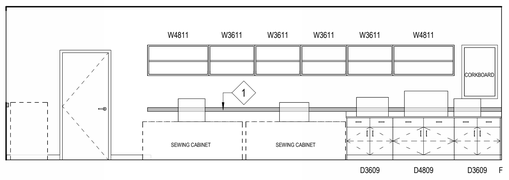
5 CRAFT STOR. - NORTH
1/4" = 1'-0"



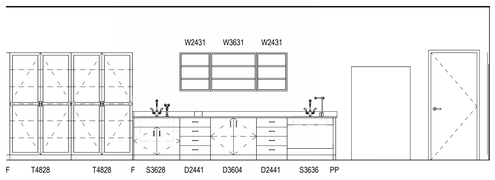
4 CRAFT LAB - SOUTH
1/4" = 1'-0"



1 LEVEL 01 - CRAFT LAB ENLARGED PLAN
1/4" = 1'-0"



3 CRAFT LAB - WEST
1/4" = 1'-0"



2 CRAFT LAB - EAST
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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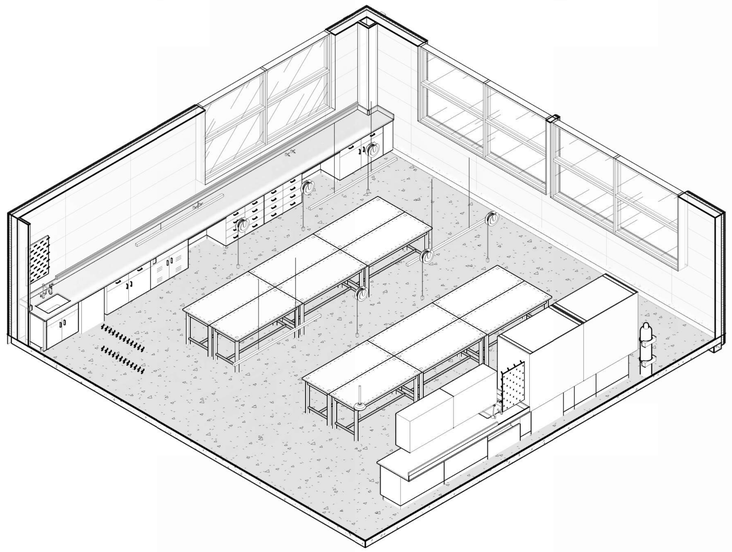
REGISTERED ARCHITECT

WDG Project No: Project Number

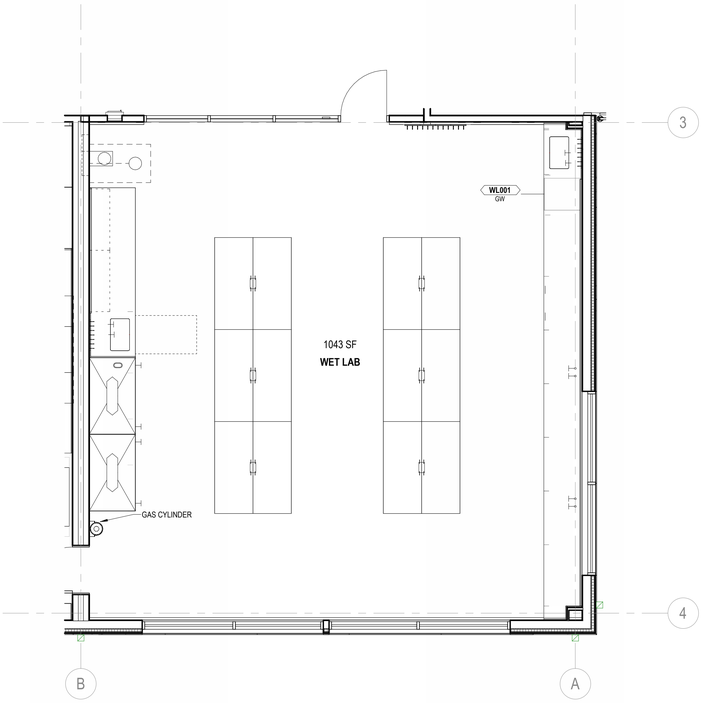
SHEET NAME

LEVEL 01 - CRAFT LAB ENLARGED PLAN

SHEET NO. QL314



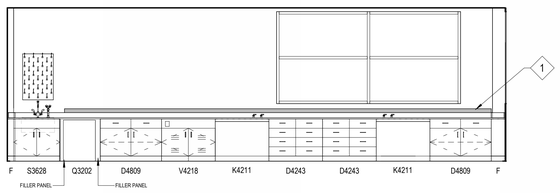
5 WET LAB



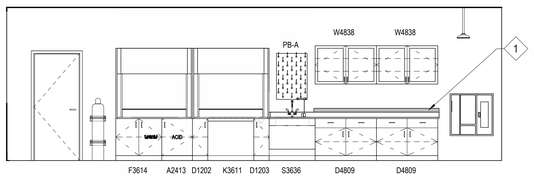
4 LEVEL 01 - WET LAB EQUIPMENT PLAN
1/4" = 1'-0"

LABORATORY EQUIPMENT MATRIX QL315

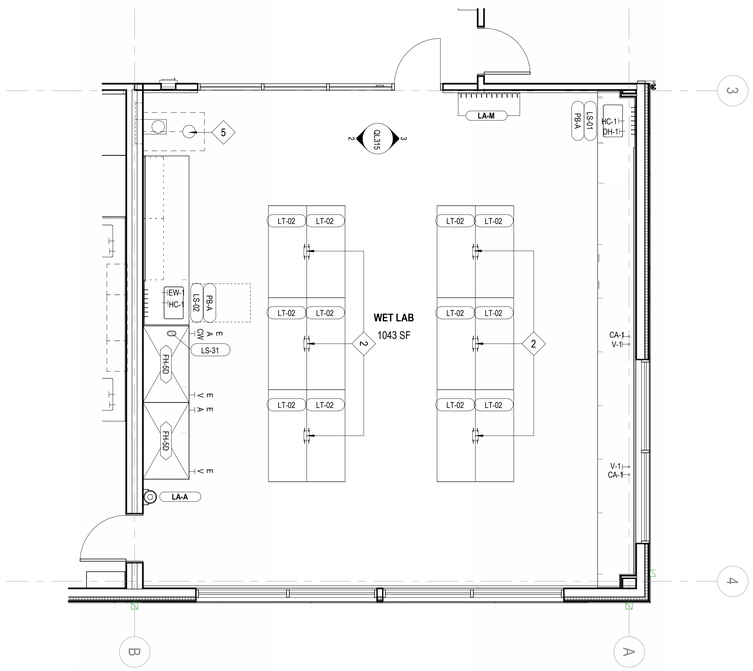
EQUIPMENT INFORMATION	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION
CL005	FRONT LOADING KILN
CL008	CLOSED BIN ORGANIZER TALL CASE
WL001	GLASSWARE WASHER



3 WET LAB - EAST
1/4" = 1'-0"



2 WET LAB -WEST
1/4" = 1'-0"



1 LEVEL 01 - WET LAB ENLARGED PLAN
1/4" = 1' - 0"

GENERAL NOTES

SHEET NOTES

LEGEND

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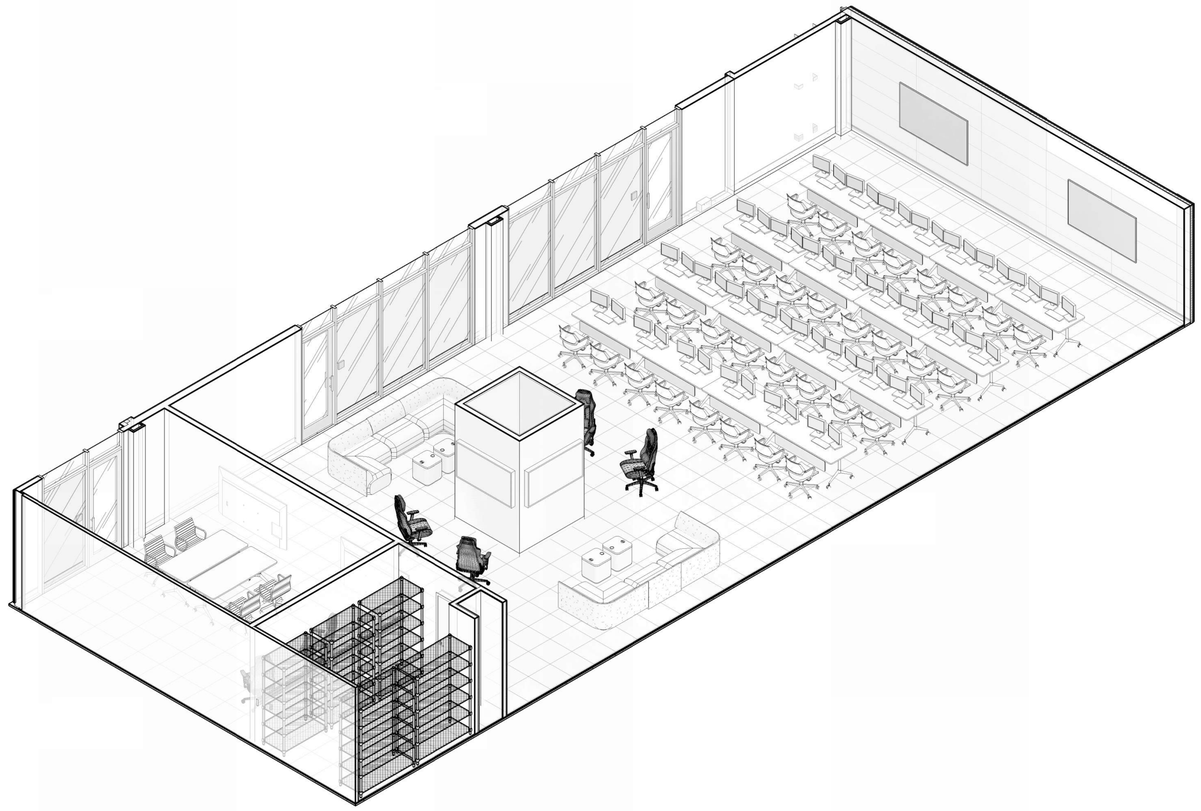
01/19/26

WDG Project No: Project Number

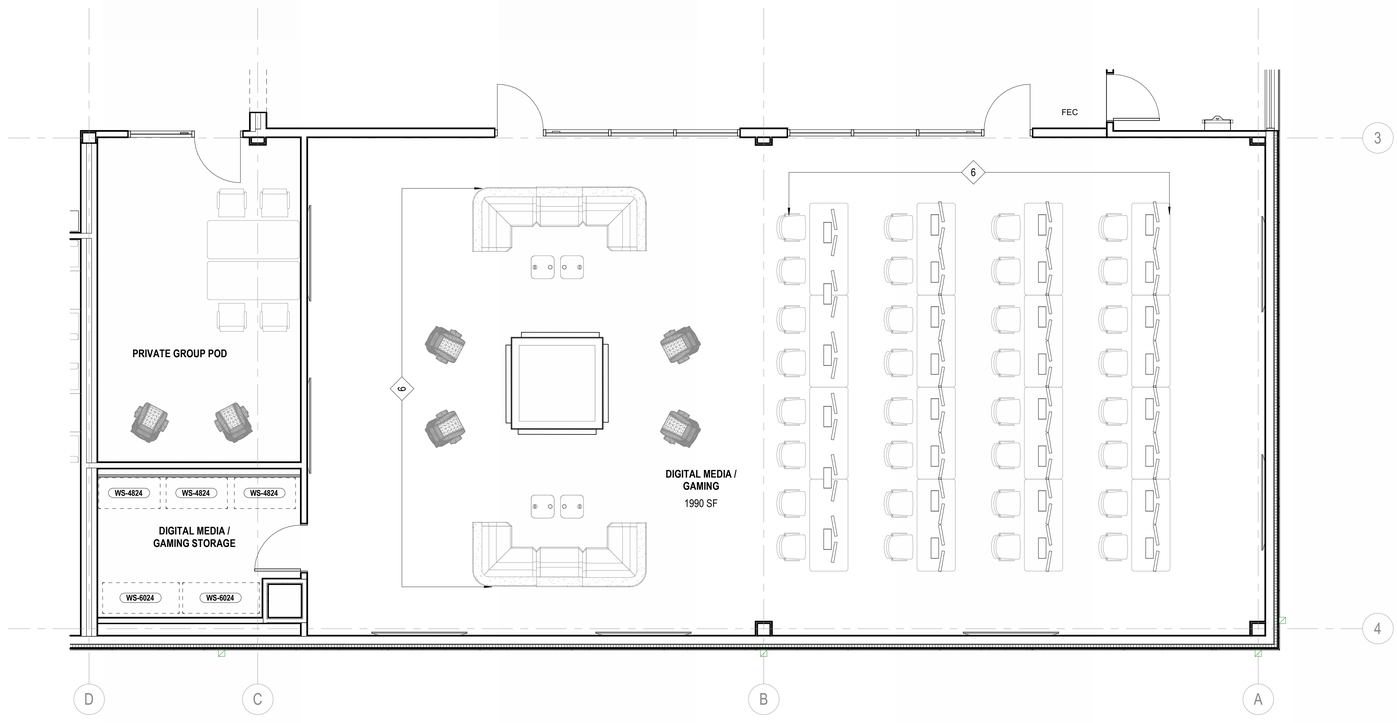
SHEET NAME

LEVEL 01 - WET LAB ENLARGED PLAN

SHEET NO. QL315



2 DIGITAL MEDIA AXONOMETRIC



1 LEVEL 02 - DIGITAL MEDIA ENLARGED PLAN
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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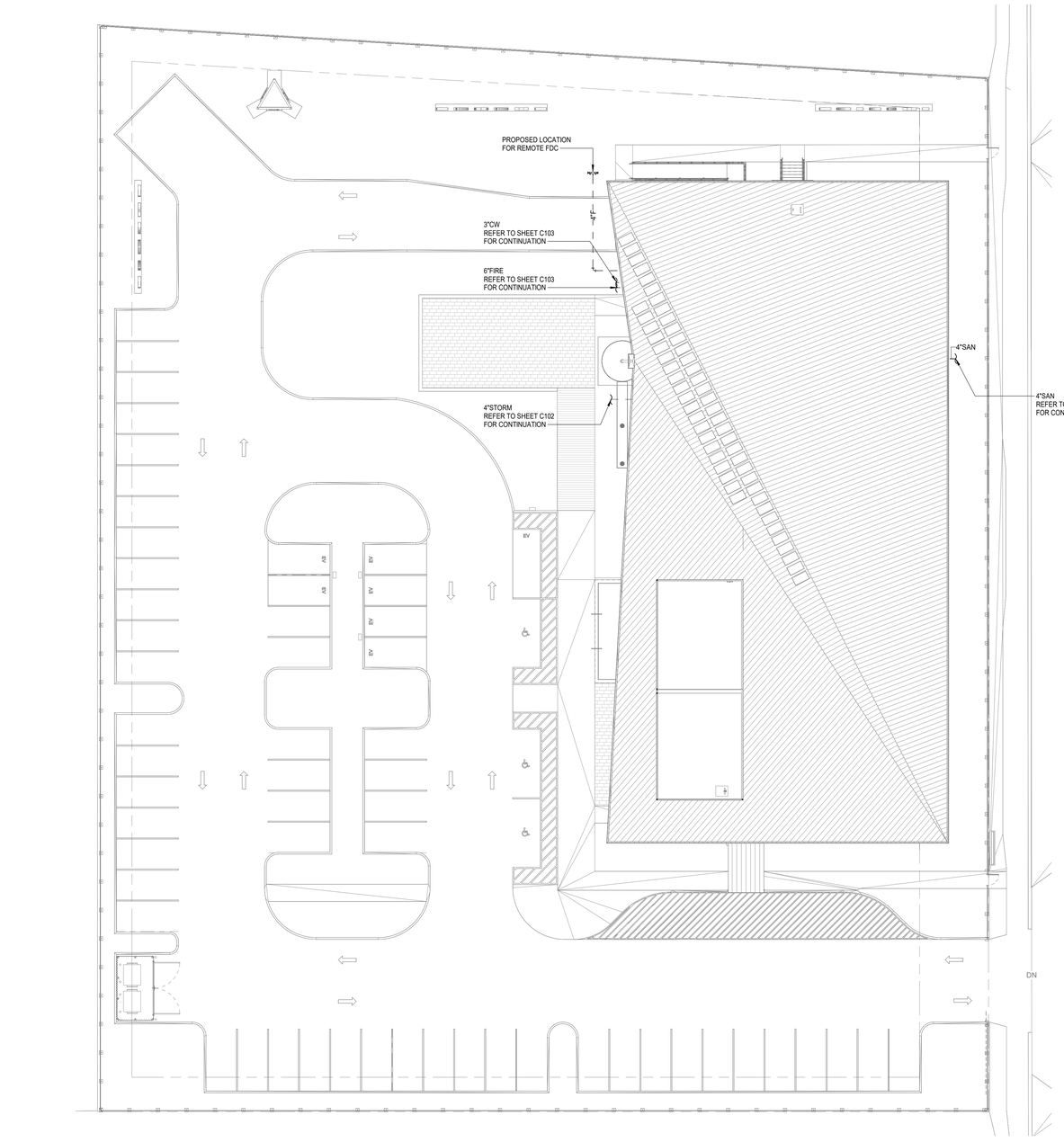
WDG Project No: Project Number

SHEET NAME
LEVEL 02 - DIGITAL MEDIA ENLARGED PLAN

SHEET NO. QL316



N

1 **PLUMBING SITE PLAN**
Scale: 1/16" = 1'-0"

FIRE SPRINKLER

A. DESIGN AND FURNISH LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF A HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM WITH THE ATTENDANT ACCESSORIES FOR ENTIRE AREA.

B. STUDY THE GENERAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.

C. THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEMS SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE STANDARD BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING JURISDICTION.

D. IT SHALL BE THE FIRE PROTECTION INSTALLERS RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.

E. REFER TO SPECIFICATIONS FOR PIPE MATERIALS.

F. LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS FOR UP TO DATE CHANGES TO EXISTING SYSTEM AND TO COMPLY WITH NEW SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTES:

1. THE FOLLOWING IS A LIST OF FIRE HYDRANT FLOW TESTS THAT WERE CONDUCTED BY COASTAL FIRE PROTECTION, L.L.C. 10/20/25 FOR THE SITE:

   A. HYDRANT 1: LOCATION: I-10 SERVICE RD & PLAZA DR. STATIC @ 42PSI, RESIDUAL @ 34PSI, FLOWING GPM @ 919.

PLUMBING

1. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING ON SITE PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
2. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
3. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
4. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
5. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
6. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
7. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
8. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
9. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF. MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

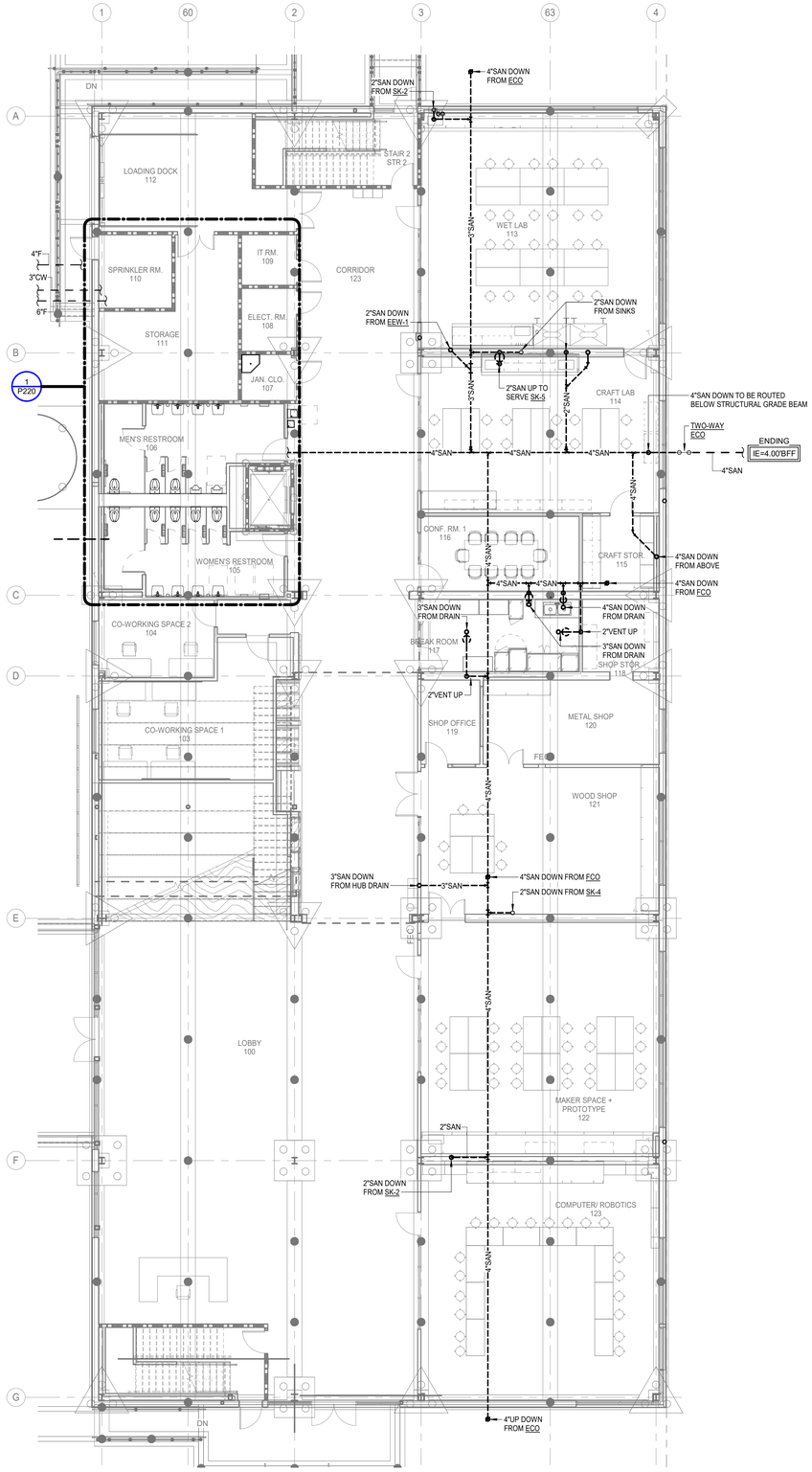
STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
01/15/2026

Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

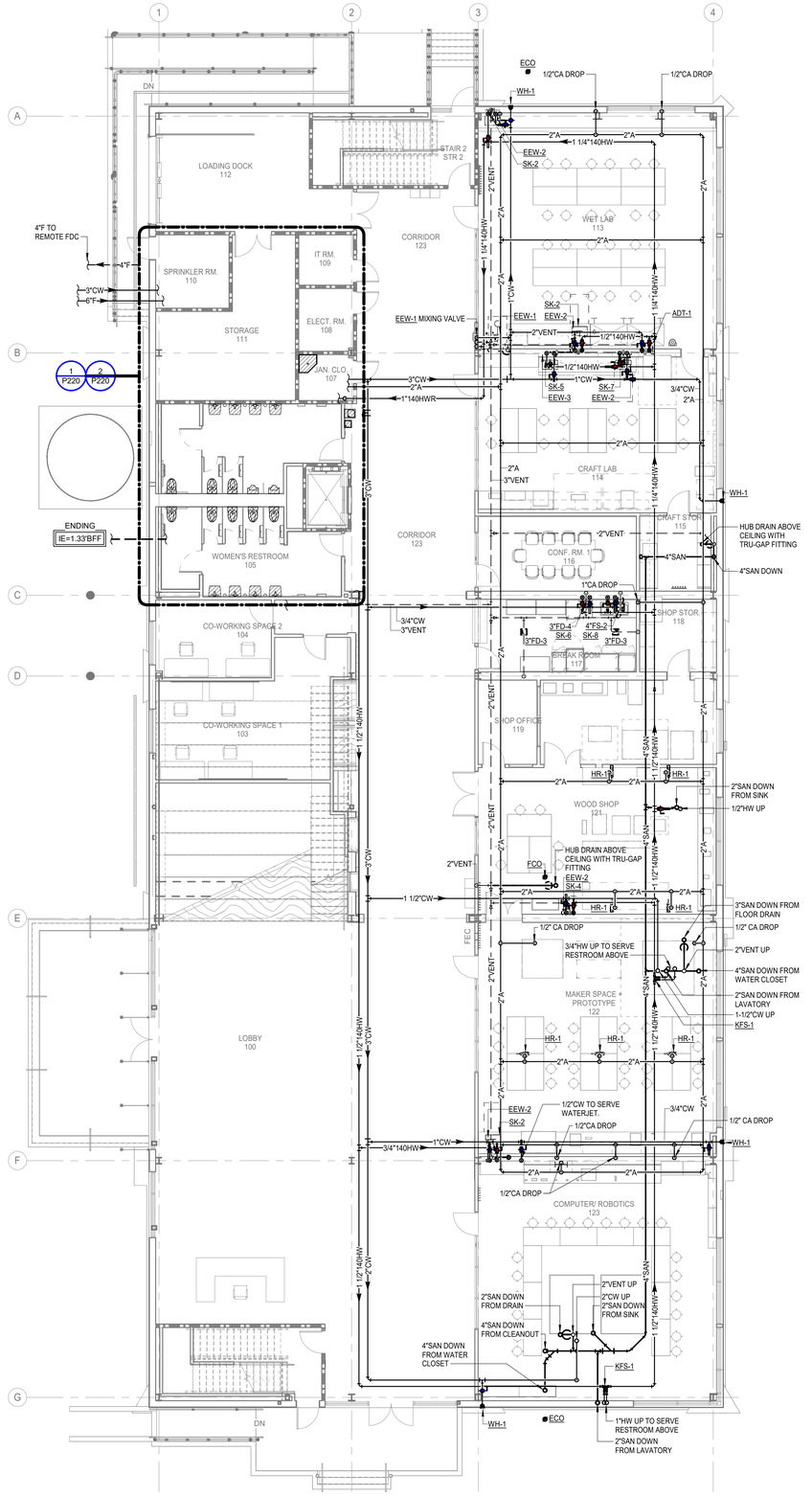
WDG Project No: 2024002

SHEET NAME
PLUMBING SITE PLAN

SHEET NO. P100



N 1 **UNDERGROUND FLOOR PLUMBING PLAN**
Scale: 1/8" = 1'-0"



N 3 **FIRST FLOOR PLUMBING PLAN**
Scale: 1/8" = 1'-0"

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WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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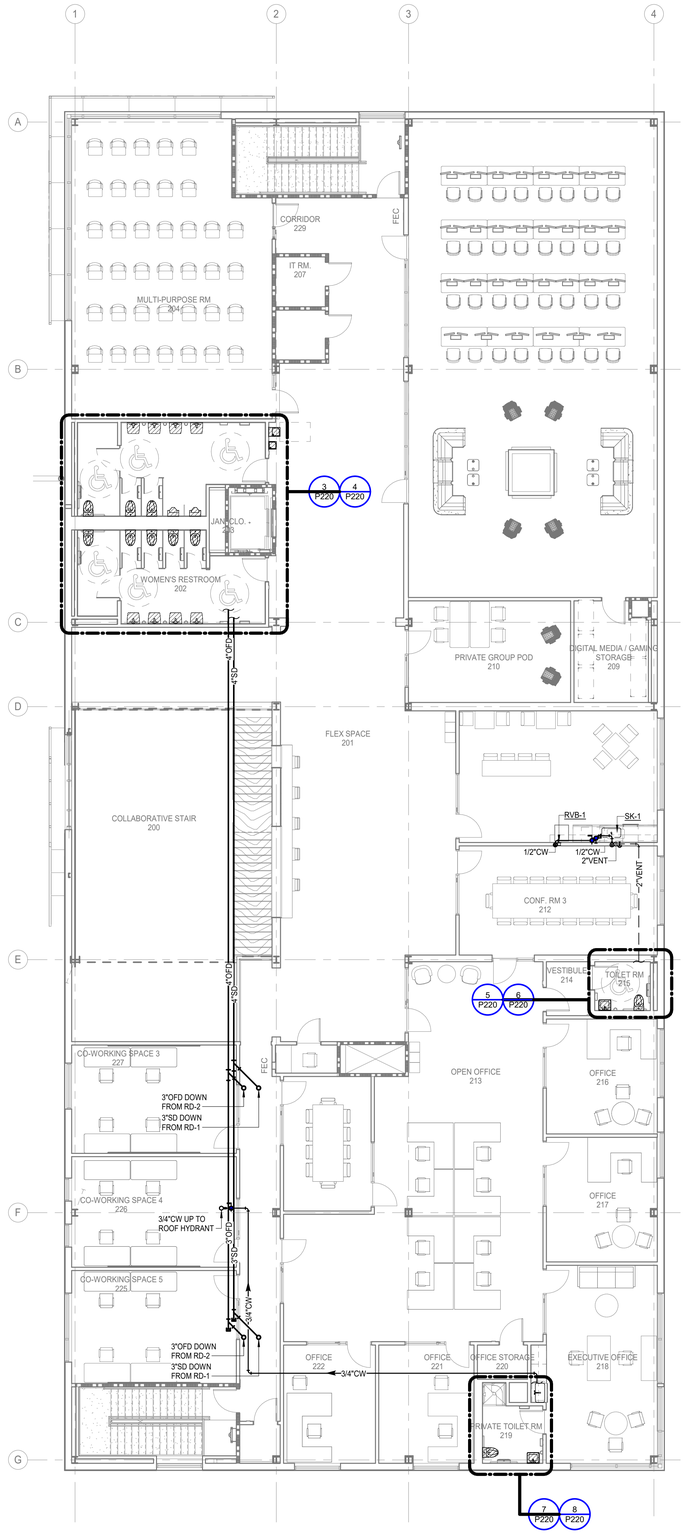
PROFESSIONAL ENGINEER
01/15/2026

WDG Project No: 2024002

SHEET NAME
PLUMBING FLOOR PLANS

SHEET NO. P201



N

1 SECOND FLOOR PLUMBING PLAN

Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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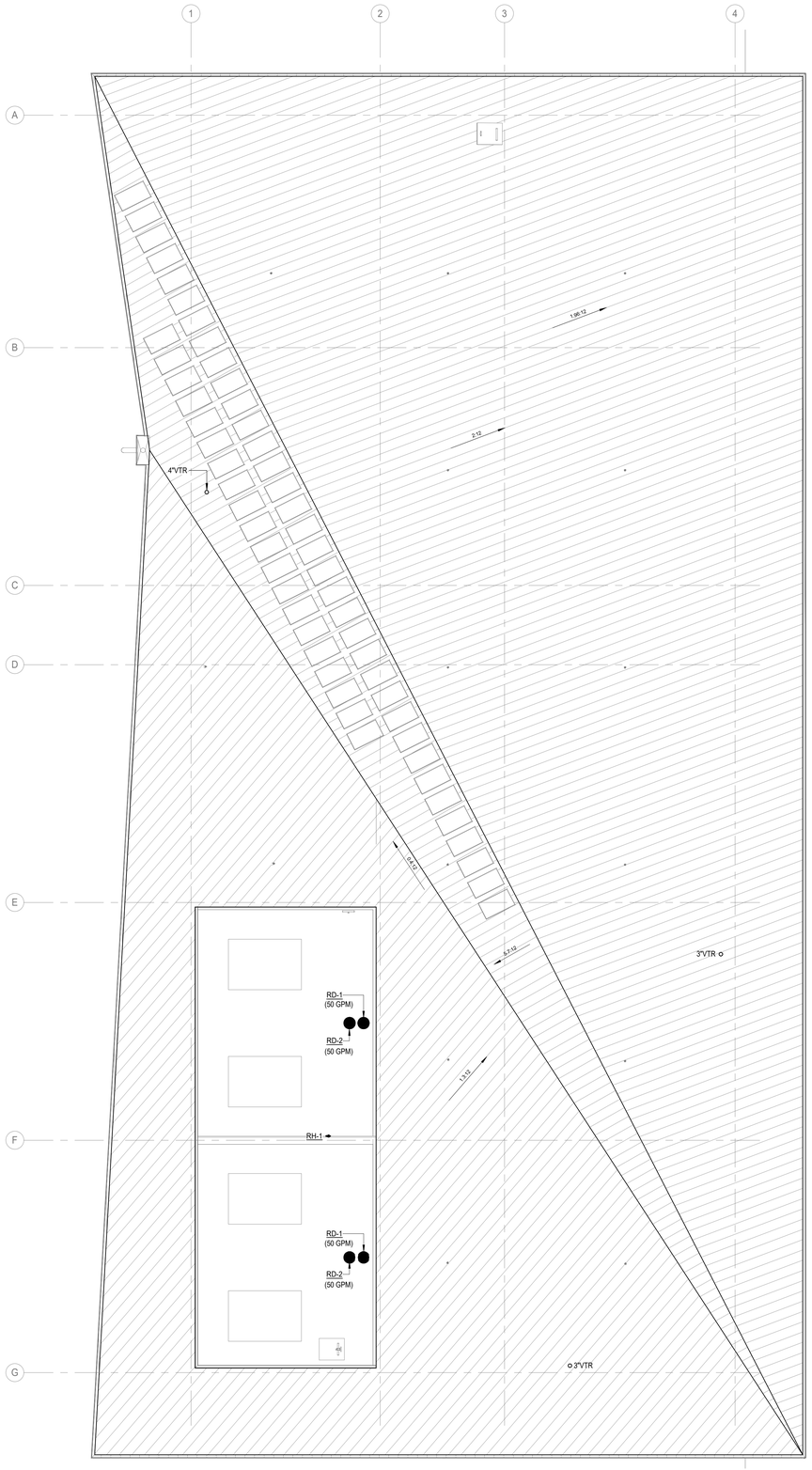
WDG Project No: 2024002

SHEET NAME

PLUMBING FLOOR PLANS

SHEET NO.

P202



N

1 **PLUMBING ROOF PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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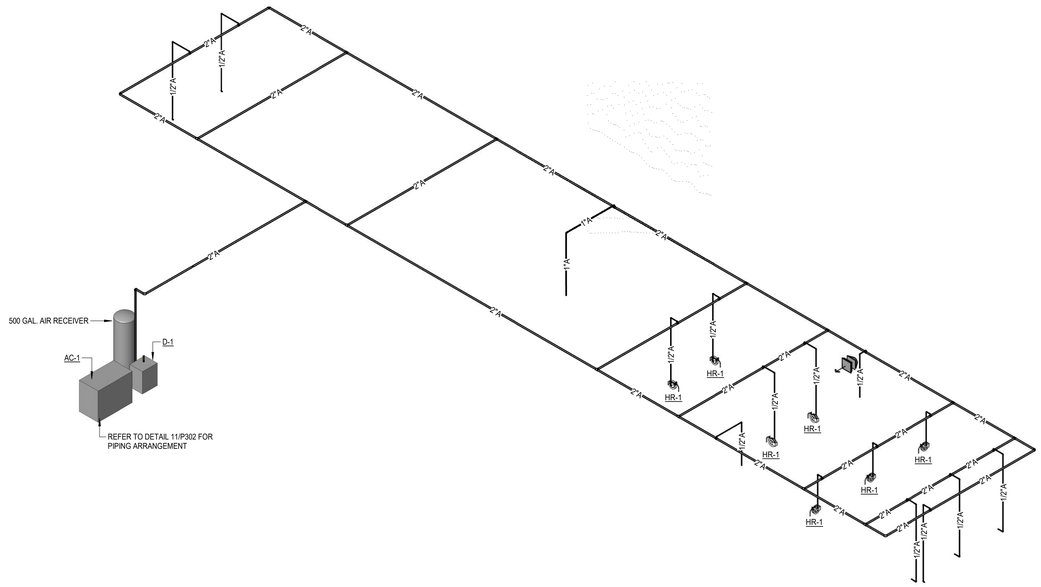
SHEET NAME
PLUMBING ROOF PLAN

SHEET NO.
P211



1 **OVERALL PLUMBING RISER - COMPRESSED AIR**
Scale:

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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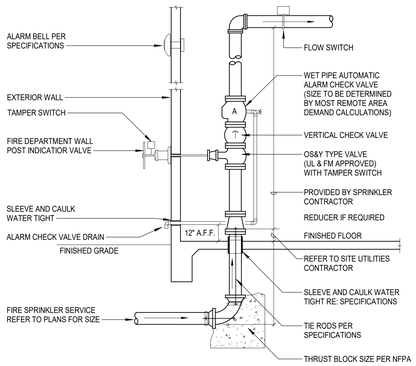
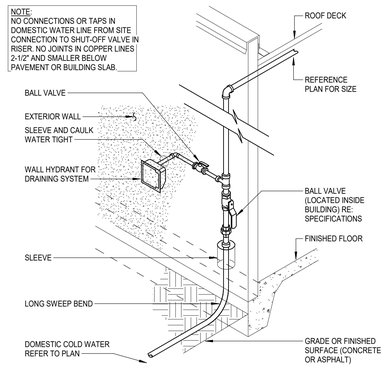
WDG Project No: 2024002

SHEET NAME
PLUMBING RISERS

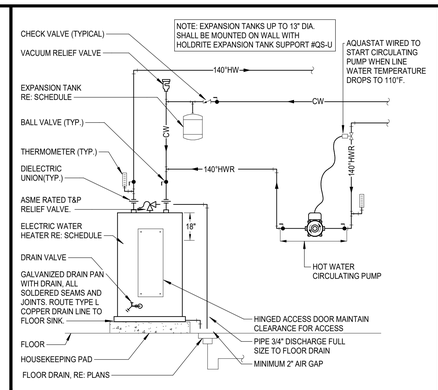
SHEET NO. P231



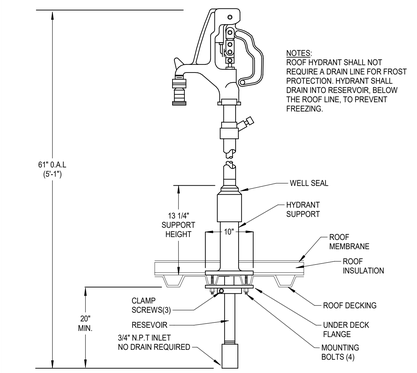
1 FIRE ENTRY PIPING
SCALE: NONE



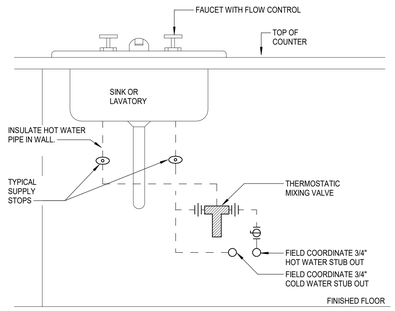
2 DOMESTIC WATER ENTRY
SCALE: NONE



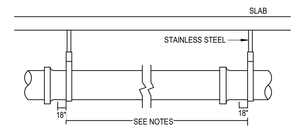
3 ELECTRIC WATER HEATER PIPING
SCALE: NONE



4 ROOF HYDRANT DETAIL
SCALE: NONE

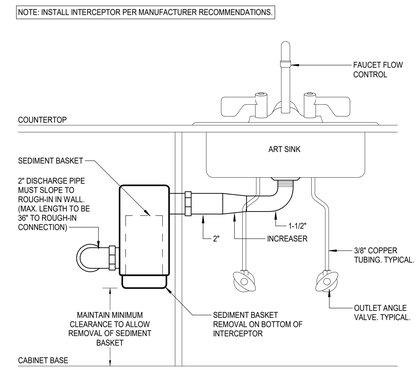


5 THERMOSTATIC MIXING VALVE PIPING AT SINK OR LAVATORY
SCALE: NONE

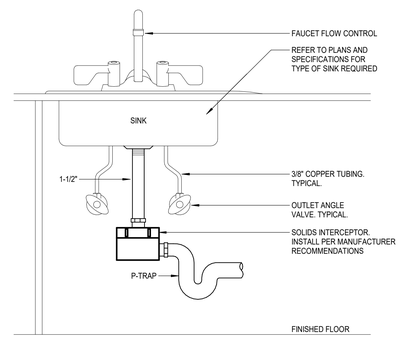


NOTE 1: PROVIDE PIPE SUPPORT WITHIN 18" OF EVERY JOINT CONNECTION.
NOTE 2: 7 FOOT MAX BETWEEN EACH SUPPORT ON ALL 4" PIPE AND SMALLER.
NOTE 3: 8 FOOT MAX BETWEEN EACH SUPPORT ON ALL 6" PIPE AND LARGER.

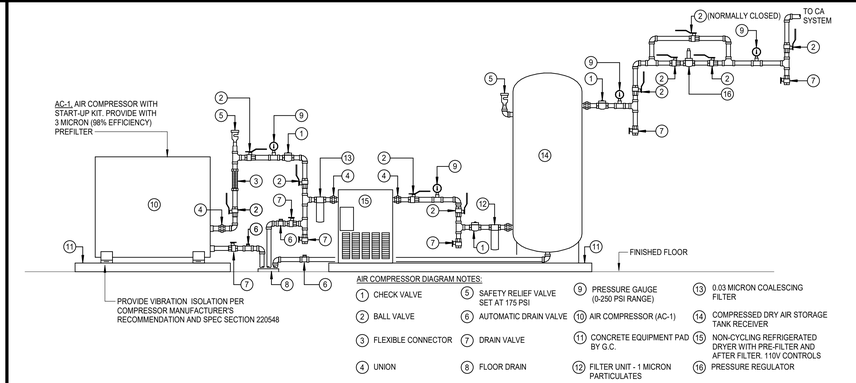
6 BRACING FOR UNDERGROUND PIPING
SCALE: NONE



7 ART SINK SOLIDS INTERCEPTOR
SCALE: NONE



8 SINK WITH SOILDS INTERCEPTOR
SCALE: NONE



AIR COMPRESSOR DIAGRAM NOTES:

1. CHECK VALVE
2. BALL VALVE
3. FLEXIBLE CONNECTOR
4. UNION
5. SAFETY RELIEF VALVE SET AT 175 PSI
6. AUTOMATIC DRAIN VALVE
7. DRAIN VALVE
8. FLOOR DRAIN
9. PRESSURE GAUGE (0-250 PSI RANGE)
10. AIR COMPRESSOR (AC-1)
11. CONCRETE EQUIPMENT PAD BY G.C.
12. FILTER UNIT - 1 MICRON PARTICULATES
13. 0.03 MICRON COALESCING FILTER
14. COMPRESSED DRY AIR STORAGE TANK RECEIVER
15. NON-CYCLING REFRIGERATED DRYER WITH PRE-FILTER AND AFTER FILTER. 110V CONTROLS
16. PRESSURE REGULATOR

9 AIR COMPRESSOR PIPING DETAIL
SCALE: NONE

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WDG Project No: 2024002

SHEET NAME
PLUMBING DETAILS

SHEET NO.
P302

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION
HR-1	DESCRIPTION: MEDIUM DUTY SPRING RETRACTABLE HOSE REEL, STEEL GUIDE ARM AND BASE, POWDER COATED COMPONENTS, 50 FT HOSE. REELCRAFT RT650-OLP. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS.
DRAINAGE FIXTURE (CO, FD, FS, HD, TD)	
3"FD-1	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE 1100-MR6. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
3"FD-2	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 9" DIAMETER STRAINER. WADE 1100-FC.-TSD TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.
3"FD-3	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, 8" DIAMETER STAINLESS STEEL STRAINER, 6" DEEP SUMP, A.R.E. INTERIOR, SEDIMENT BUCKET. WADE 9010-27-SS. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL / KITCHEN CONSULTANT DRAWINGS.
3"FD-4	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY WITH A.R.E., ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET, 6" DIAMETER STAINLESS STEEL FUNNEL ATTACHMENT. WADE 1100-MR6-EF6-SS. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL / KITCHEN CONSULTANT DRAWINGS.
4"FS-1	DESCRIPTION: A.R.E. COATED CAST IRON BODY 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, BOTTOM OUTLET, LOOSE SET CAST IRON SECONDARY STRAINER, CLAMPING DEVICE, AND HALF TOP GRATE. WADE 9140-8-15-26-64. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.
4"FS-2	DESCRIPTION: CAST IRON 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, A.R.E. INTERIOR, ALUMINUM DOME BOTTOM STRAINER, STAINLESS STEEL TOP, AND CLAMPING DEVICE. WADE 9140-15-27-26-SS. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL / KITCHEN CONSULTANT DRAWINGS.
DN-1	DESCRIPTION: OVERFLOW DOWNSPOUT NOZZLE. CAST BRONZE WITH THREADED OR NO HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL. INSTALL AT 12" ABOVE FINISHED SLAB OR AS DIRECTED BY ARCHITECT. WADE 3941-VP. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
ECO	DESCRIPTION: EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH ADJUSTABLE TOP ASSEMBLY WITH GASKET SEAL, AND ROUND SCORIATED VANDAL RESISTANT DUCTILE IRON TRACTOR TYPE COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"X18"X12" CONCRETE PAD. WADE 6000-Z.
FCO	DESCRIPTION: FLOOR CLEANOUT, CAST IRON BODY AND ADJUSTABLE TOP ASSEMBLY WITH GASKET SEAL, AND ROUND SCORIATED STAINLESS STEEL COVER. WADE 6000-153. FOR CARPETED FLOORS PROVIDE WADE 6000-CM.
RD-1	DESCRIPTION: ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE 3000-46-52-53. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
RD-2	DESCRIPTION: OVERFLOW ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, 2" HIGH WATER DAM, BEARING PAN, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE 3000-D-46-52-53. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
WCO	DESCRIPTION: WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH DUCTILE IRON COMBINED COVER/PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. MIFAB C1450 WITH C1400-RD6. PROVIDE MIFAB C1460 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.
DRINKING FOUNTAIN (EDF)	
EDF-1	DESCRIPTION: WALL HUNG, BARRIER FREE, BI-LEVEL ELECTRIC DRINK FOUNTAIN WITH ELECTRONIC BOTTLE FILLER SENSOR AND SHIELDED VANDEL-RESISTANT BUBBLER. 8 GPH OF 50 DEGREE WATER AT 90 DEGREE AMBIENT AND 80 DEGREE INLET WATER. ELKAY LZSTL8WSLP. PROVDE CANE TOUCH SKIRT TO COMPLY WITH ADA GUIDELINES AND ELKAY 51299C FILTER.. P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. MIFAB MC-33. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
EDF-2	DESCRIPTION: WALL HUNG, BARRIER FREE, BI-LEVEL ELECTRIC DRINK FOUNTAIN FLEXI-GUARD SAFETY BUBBLER. 8 GPH OF 50 DEGREE WATER AT 90 DEGREE AMBIENT AND 80 DEGREE INLET WATER. ELKAY LZSTL8LC. PROVDE CANE TOUCH SKIRT TO COMPLY WITH ADA GUIDELINES AND ELKAY 51299C FILTER. P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. MIFAB MC-33. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
EMERGENCY EYE WASH (EEW)	
EEW-1	DESCRIPTION: BARRIER-FREE WITH RECESSED EYE/FACE WASH AND SHOWER WITH DRAIN, STAINLESS STELL RECESSED CABINET AND NTEGRATED FIRE EXTINGUISHER HOUSING. WATER SAVER MODEL GSC2650A. MIXING VALVE: THERMOSTATIC MIXING VALVE 1"NPT INLETS AND 1-1/4"NPT OUTLET. WATER SAVER TM6040. PROVIDE WITH ACCESS PANEL. ROUGH-IN: 2" DRAIN, 1-1/4" COLD WATER. COORDINATE FINAL LOCATION / HEIGHT WITH ARCHITECTURAL DRAWINGS.
EEW-2	DESCRIPTION: ADA COMPLIANT, SINK MOUNT EYE/FACE WASH, 4.2 GPM FLOW CONTROL WITH PULL-DOWN ACTIVATION. HAWS MODEL 7610. ROUGH-IN: 1/2" COLD WATER. COORDINATE FINAL LOCATION / HEIGHT WITH ARCHITECTURAL DRAWINGS.
EEW-3	DESCRIPTION: DECK MOUNT EYE/FACE WASH, 8' SWIVEL HOSE, VACUUM BREAKER HAWS SP212. HAWS MODEL 8904. ROUGH-IN: 1/2" COLD WATER. COORDINATE FINAL LOCATION / HEIGHT WITH ARCHITECTURAL DRAWINGS.
HYDRANTS (HB, RH, WH)	
RH-1	DESCRIPTION: FREEZELESS ROOF HYDRANT, NO DRAIN REQUIRED, BACKFLOW PREVENTER, LIFT HANDLE AND AIR VENT. WOODFORD SRH-MS ROUGH-IN: 3/4"CW
LAVATORY (L)	
L-1	DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 18-1/2"X 17" BOWL WITH REAR OVERFLOW, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.027. FAUCET:CHROME PLATED BRASS DECK MOUNTED LAVATORY FAUCET WITH 4" SPOUT AND 2-3/8" LEVER HANDLES ON 4" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, VANDAL RESISTANT 0.5 GPM. CHICAGO MODEL 802-VE2805ABCP STRAINER: 1-1/4" 17 GAUGE OFFSET WHEELCHAIR STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE OFFSET TAILPIECE. MCGUIRE 155WC. GRAVITY FED TRAP PRIMER TAILPIECE, 1/2" NOMINAL BRANCH CONNECTION. SIOUX CHIEF" 213-092. P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE W520-M36. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
MOP SINK (MS)	
MS-1	DESCRIPTION: MOP SINK BASIN, 32" X 32" X 12" HIGH CORNER TYPE, PRECAST TERRAZZO WITH 6" DROPPED FRONT, STAINLESS STEEL THRESHOLD CAP, AND DOUBLE STAINLESS STEEL WALL GUARDS.STERN-WILLIAMS "CORLOW" SBC-1725. FAUCET:CHROME PLATED BRASS WALL MOUNTED FITTING WITH CHECK IN STOPS, ADJUSTABLE SUPPLY ARMS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 2-1/2" INDEXED LEVER HANDLES ON 8" CENTERS. QUARTER TURN CARTRIDGES, 3/4" MALE HOSE THREAD OUTLET. CHICAGO 445-897-CP. ROUGH-IN: 3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.
REFRIGERATED VALVE BOX (RVB)	
RVB-1	DESCRIPTION: RECESSED VALVE BOX, 7" X 7", 18 GAUGE STEEL WITH WHITE POWDER COAT FINISH, 1/2" THREADED CONNECTION DOMESTIC VALVE. PROVIDE FILTER WHEN MAKING FINAL CONNECTION. GUY GRAY BIM-875 WITH AQUA-PURE AP717 FILTER. ROUGH-IN: 1/2" COLD WATER

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION
SHOWER (SH)	
SH-1	DESCRIPTION: MOLDED, FOUR PIECE, BARRIER FREE SHOWE MODULE, SUBWAY TILE SIMULATED WALL FINISH, BESTBATH MODEL 4LBS3636B5T CONTROLS: COMMERCIAL SERIES, CHROME PLATED METAL 3-FUNCTION TRANSFER VALVE PRESSURE BALANCING TYPE SHOWER MIXING VALVE WITH LEVER HANDLE, ADJUSTABLE TEMPERATURE TO LIMIT HAND TURN, 2.5 GPM SHOWER HEAD. HAND-HELD SHOWER WITH NON-POSITIVE PAUSE AND 69" FLEXIBLE STAINLESS STEEL CLAD HOSE, VACUUM BREAKER, MOUNTING BRACKET AND 30" SLIDE BAR. MOEN 8342. DRAIN: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 5" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE 1100-MR5. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS AND FOR LOCATION/CONFIGURATION OF CONTROLS, ACCESSORIES, ETC. FINAL INSTALLATION TO BE A.D.A. COMPLIANT.
SINK (HS, SK)	
SK-1	DESCRIPTION: SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 302 STAINLESS STEEL, 22" X 19.5" X 5.5" DEEP, SINGLE COMPARTMENT WITH FAUCET DECK. SINGLE FAUCET HOLE ON 4" CENTERS. ELKAY "LUSTERTONE" LRAD 221955. FAUCET: CHROME PLATED FAUCET WITH SPRAY HANDLE, SINGLE HANDLE WITH 9" SPOUT, VANDAL RESISTANT AERATOR WITH A MAX FLOW 1.5GPM. MOEN 8701. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
SK-2	DESCRIPTION: SINGLE BOWL LABORATORY SINK WITH DRAIN ARE TO BE SPECIFIED BY THE LAB CONSULTANT. WHERE A DECK MOUNTED EYEWASH IS SHOWN ON LAB CASEWORK PLANS, THE PLUMBING CONTRACTOR SHALL MAKE 3/4" TEPID WATER CONNECTION TO EYEWASH WITH TYPE L HARD DRAWN COPPER PIPE WITH BALL OR GLOBE VALVE STOPS PROVIDE ESCUTCHEONS AT ALL WALL OR FLOOR PIPE PENETRATIONS. LOCATE PIPE WITHIN CASEWORK UTILITY SERVICE CHASE WHERE PROVIDED. FAUCET: DECK-MOUNTED MANUAL FAUCET, SINGLE HOLE, COLOR CODED HANDLES, 9-1/2" L-TYPE SWING SPOUT, 2.2 GPM. CHICAGO 50-L9-317XKABCP. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. STRAINER: CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 20 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152. P-TRAP: 1-1/2" END OUTLET 16" CENTERS 17 GAUGE CONTINUOUS WASTE WITH CAST BRASS TEE. MCGUIRE 111C16G17. 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. ROUGH-IN: 2" ACID WASTE, 2" ACID VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-3	DESCRIPTION: THE PLUMBING CONTRACTOR SHALL CONNECT TO THE HOOD UTILITIY SERVICES PIPING. COORDINATE EXACT CONNECTION LOCATIONS AND REQUIREMENTS WITH THE LAB CASEWORK CONTRACTOR. CUP SINK AND FAUCET ARE TO BE PROVIDED BY THE LAB CASEWORK CONTRACTOR. THE PLUMBING CONTRACTOR SHALL MAKE A 1-1/2" LAB WASTE CONNECTION TO THE SINK DRAIN AND PROVIDE A 1-1/2" FULL DROP UNION POLYPROPYLENE P-TRAP. THE PLUMBING CONTRACTOR SHALL CONNECT TO FAUCET WITH 1/2" TYPE L HARD DRAWN COPPER PIPE WITH BALL OR GLOBE VALVE STOP. REFER TO LAB CASEWORK DRAWINGS. FAUCET: SPECIFIED BY LAB CONSULTANT. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. STRAINER: CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 20 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152. P-TRAP: 1-1/2" END OUTLET 16" CENTERS 17 GAUGE CONTINUOUS WASTE WITH CAST BRASS TEE. MCGUIRE 111C16G17. 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-4	DESCRIPTION: FREE STANDING, SINGLE COMPARTMENT WITH LEGS, HEAVY DUTY TUB SINK. FIAT TAT-1. FAUCET:CHROME PLATED FAUCET ON 4" CENTERS, WRIST BLADE HANDLES, SWING SPOUT, AERATOR, AND HOSE ADAPTER INCLUDED WITH SINK PACKAGE. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: INTEGRAL DRAIN INCLUDED WITH SINK PACKAGE. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-5	DESCRIPTION: SINGLE BOWL DEEP SINK WITH DRAIN ARE TO BE SPECIFIED AND INSTALLED BY THE LAB CASEWORK CONTRACTOR. WHERE A DECK MOUNTED EYEWASH IS SHOWN ON LAB CASEWORK PLANS, THE PLUMBING CONTRACTOR SHALL MAKE 3/4" TEPID WATER CONNECTION TO EYEWASH WITH TYPE L HARD DRAWN COPPER PIPE WITH BALL OR GLOBE VALVE STOPS PROVIDE ESCUTCHEONS AT ALL WALL OR FLOOR PIPE PENETRATIONS. LOCATE PIPE WITHIN CASEWORK UTILITY SERVICE CHASE WHERE PROVIDED. FAUCET:CHROME PLATED BRASS DECK MOUNTED FITTING WITH 11-3/4" HIGH SWING SPOUT AND 4" WRIST BLADE HANDLES ON 8" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, VANDAL RESISTANT 2.2 GPM AERATOR. CHICAGO MODEL 1100-HA8-317XK- E12VPJKCP. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 20 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152. INTERCEPTOR: SIDE OUTLET, FRONT ACCESS INTERCEPTOR. STRIEM MODEL SIDEKICK SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-6	DESCRIPTION: HAND SINK SPECIFIED BY FOOD SERVICE CONSULTANT (FOOD SERVICE ITEM NUMBER 6). FAUCET: SPECIFIED BY FOOD SERVICE CONSULTANT. MIXING VALVE: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 105 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2" TAILPIECE AND LOCK NUTS. MCGUIRE 151A. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: /2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
SK-7	DESCRIPTION: SINGLE BOWL LABORATORY SINK WITH DRAIN ARE TO BE SPECIFIED AND INSTALLED BY THE LAB CASEWORK CONTRACTOR. WHERE A DECK MOUNTED EYEWASH IS SHOWN ON LAB CASEWORK PLANS, THE PLUMBING CONTRACTOR SHALL MAKE 3/4" TEPID WATER CONNECTION TO EYEWASH WITH TYPE L HARD DRAWN COPPER PIPE WITH BALL OR GLOBE VALVE STOPS PROVIDE ESCUTCHEONS AT ALL WALL OR FLOOR PIPE PENETRATIONS. LOCATE PIPE WITHIN CASEWORK UTILITY SERVICE CHASE WHERE PROVIDED. FAUCET: DECK-MOUNTED MANUAL FAUCET, SINGLE HOLE, COLOR CODED HANDLES, 9-1/2" L-TYPE SWING SPOUT, 2.2 GPM. CHICAGO 50-L9-317XKABCP. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. STRAINER: CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 20 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152. INTERCEPTOR: SMALL CAPACITY SOLID INTERCEPTOR WITH GASKET COVER, STAINLESS STEEL LATCH, REMOVABLE SEDIMENT BUCKET, AND PERFORATED SCREEN. ZURN Z1180. INSTALL BELOW SINK IN CABINETRY. ROUGH-IN: 2" ACID WASTE, 2" ACID VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-8	DESCRIPTION: SPECIFIED BY FOOD SERVICE CONSULTANT (FOOD SERVICE ITEM NUMBER 5). FAUCET:SPECIFIED BY FOOD SERVICE CONSULTANT. STRAINER: (3) ROTARY LEVER OPERATED DRAIN FITTINGS, EACH WITH STAINLESS STEEL PERFORATED GRID STRAINER AND 2" IPS DRAIN OUTLET. (3) ADVANCE TABCO K-5. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-IN: 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. REFER TO PLUMBING PLANS FOR LOCATION AND TYPE OF INDIRECT DRAINAGE RECEPTOR, SPECIFIED SEPARATELY.

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION
SOLIDS INTERCEPTOR (INT)	
INT-1	DESCRIPTION: UNDERSINK SOLIDS INTERCEPTOR, TOP INLET, SIDE OUTLET, 23 GPM, 0.17 GAL SOLIDS CAPACITY. STRIEM MODEL SIDEKICK
INT-2	DESCRIPTION: BOTTOM ACCESS SOLIDS INTERCEPTOR, FOR OFF-FLOOR INSTALLATION WITH REMOVABLE SEDIMENT BUCKET WITH THREADED LOW INLET AND HIGH OUTLET. WADE 5730
URINAL (U)	
U-1	DESCRIPTION: URINAL, ADA COMPLIANT, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH WASHOUT FLUSH ACTION. AMERICAN STANDARD "WASHBROOK" 6590.001. FLUSH VALVE: 0.5 GALLON FLUSH CYCLE, EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL 186-0.5. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. MIFAB MC-32. ROUGH-IN: 2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
WALL HYDRANT (WH)	
WH-1	DESCRIPTION: ENCASED, WALL HYDRANT, NON FREEZE, LEAD FREE, HALF TURN CERAMIC DISC CARTRIDGE, INTEGRAL BACKFLOW PREVENTER WITH ANTI SIPHON TECHNOLOGY. INSTALL WITH BOTTOM OF HYDRANT 18" A.F.F. WADE 8701. ROUGH-IN: 3/4" COLD WATER
WATER CLOSET (WC)	
WC-1	DESCRIPTION: WATER CLOSET (A.D.A. COMPLIANT), WALL HUNG, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. AMERICAN STANDARD "AFWALL" 3351.101. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: ADA COMPLIANT, MANUAL FLUSH VALVE, 1.28 GPF, ADJUSTABLE TAILPIECE, SLOAN ROYAL 111 CARRIER: MIFAB MC-10 HORIZONTAL OR MC-12,13 VERTICAL. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-INS: 4" WASTE, 3" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
WC-2	DESCRIPTION: WALL HUNG, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. AMERICAN STANDARD "AFWALL" 3351.101. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: ADA COMPLIANT, MANUAL FLUSH VALVE, 1.28 GPF, ADJUSTABLE TAILPIECE, SLOAN ROYAL 111 CARRIER: MIFAB MC-10 HORIZONTAL OR MC-12,13 VERTICAL. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-INS: 4" WASTE, 3" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
KFS-1	DESCRIPTION: KEMPER FLOW SPLITTER UNIT WITH FEMALE THREAD AND STOP VALVES. 6510604000 - FPT 1-1/2" MAIN
ADT-1	DESCRIPTION: 14-1/4" x 6-9/32" ACID DILUTION TANK, PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. POINT OF USE TYPE ACID NEUTRALIZATION CARTRIDGE TO BE PROVIDED TO FUME HOOD, CONTRACTOR TO COORDINATE FINAL LOCATION WITH LAB CONTRACTOR CABINET DOCUMENTS. FILL INSTALLED TANKS WITH MARBLE SIZED LIMESTONE AFTER INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ZURN Z9A-PHIX OR EQUAL.
BFP-1	DESCRIPTION: LEAD FREE, FREEZE-RESISTANT PRESSURE VACUUM BREAKERS WITH INTERNAL BUILT-IN RELIEF VALVE. FEBCO LF767FR.

GENERAL NOTES

ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON (UNLESS NOTED TO BE AN ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.

INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE A.D.A. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.

INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

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WDG Project No: 2024002

SHEET NAME
PLUMBING SCHEDULES

SHEET NO. P401

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
SD	STORM DRAIN PIPING (SD)
SD	STORM DRAIN PIPING BELOW GRADE (GW)
AW	ACID WASTE PIPING (AW)
AW	ACID WASTE PIPING BELOW GRADE (AW)
PD	PUMPED DISCHARGE (PD)
V	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
F	FIRE PROTECTION PIPING (F)
AIR	COMPRESSED AIR PIPING (A)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	FIRE DEPARTMENT VALVE AT RISER
	FIRE DEPARTMENT CONNECTION
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	TEST COCK
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	ROOF DRAIN
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER
A	SHOCK ABSORBER
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
	NEW CONNECTION
IE=100.00'	INVERT ELEVATION
1	DELTA CHANGE SYMBOL
P 1	4" VTR RISER FLAG

ELECTRIC WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	STORAGE CAPACITY	KW	WH GALS. PER HR. RECOVERY RATE 100°F RISE	STORED WATER TEMP	ELECTRICAL CHAR. V	P	MOCP	REMARKS
EWH-1	A.O. SMITH	DRE-52-24	50 GAL	24.0	98	140	480	1	70 A	
*	IF THE MAXIMUM FUSE SIZE OF THE EQUIPMENT PROVIDED EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COSTS RELATED TO INCREASED FUSE SIZE / WIRE SIZE.									

CIRCULATION PUMP SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM	HEAD FEET	HP MIN	ELECTRICAL CHAR. V	P	F
CP-1	GRUNDFOS	ALPHA 2	CIRCULATION PUMP	INLINE BRONZE	3	3.28	0.034	115	1	60

DOMESTIC HW EXPANSION TANK SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	MAX WORK PRESSURE (PSI)	TANK VOLUME GALLONS	MAX. ACCEPT. GALLONS	DIAMETER (INCHES)
ET-1	WATTS	DETA 5	HOT WATER EXPANSION TANK	150	3.5	2.3	10"
1	PROVIDE ASME POTABLE WATER EXPANSION TANK ON THE COLD WATER SUPPLY LINE, DOWNSTREAM OF THE CHECK VALVE.						
2	PROVIDE UNION CONNECTION.						

SUMP PUMP SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM	HEAD FEET	HORSE POWER MIN.	ELECTRICAL CHAR. V	P	F	MAX RPM
SP-1	STANCOR	SV-100	OIL MINDER	SIMPLEX	50	23'-0"	1.00 hp	115	1	60	3450

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOLS:	FIXTURE UNITS:	THREADED CONNECTION	CERTIFICATION
A	1 - 11	1/2"	ASSE 1010
B	12 - 32	3/4"	ASSE 1010
C	33 - 60	1"	ASSE 1010
D	61 - 113	1"	ASSE 1010
E	114 - 154	1"	ASSE 1010
F	155 - 330	1"	ASSE 1010

BOOSTER PUMP SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM	HEAD FEET	HP MIN	ELECTRICAL CHAR. V	P	F	MOCP	MAX RPM
BP-1	TIGERFLOW	TF-01-051	DUPLEX	BOOSTER PUMP	200	87.7	5.1	460	3	60	20 A	3600

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN ALL CLEARANCES.
2. DUPLEX PACKAGED BOOSTER SYSTEM TO INCLUDE VFD, PUMP LOGIC CONTROLLER AND STANDARD CHECK VALVES. EACH PUMP SHALL ACCOMPLISH 50% OF THE SYSTEM FLOW.
3. PROVIDE BOOSTER PUMP WITH LOW-PRESSURE CUTOFF IN COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE.
4. BOOSTER PUMP ASSEMBLY SHALL BE NSF/ANSI 61 CERTIFIED.
5. SINGLE POINT ELECTRICAL CONNECTION.

FIRE PUMP SYSTEM

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	SERVICE	TYPE	GPM	PRESSURE (PSI)	MAXIMUM RPM	MOTOR HORSEPOWER	ELECTRICAL CHAR. V	P	F	MOCP
FP-1	PENTAIR	4-383-7C	FIRE PROTECTION	INLINE	500	40	3560	20.00 hp	460	3	60	60A
JP-1	PENTAIR	PVM1-6	JOCKEY PUMP	VERTICAL CENTRIFUGAL	5	60	3500	0.75 hp	460	3	60	20A
1	PUMP IS TO HAVE A NON-OVERLOADING MOTOR.											
2	MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.											
3	FIRE PROTECTION PUMP SYSTEM SHALL BE A COMPLETE SINGLE SOURCE PACKAGE AND SHALL INCLUDE FIRE PUMP WITH MOTOR CONTROLLER, JOCKEY PUMP WITH CONTROLLER, AND ALL REQURED APPURTENANCES FOR A COMPLETE OPERATING SYSTEM.											

AIR COMPRESSOR SCHEDULE

ITEM NO.	HP	CFM DELIVERED @125 PSI	CFM DELIVERED @145 PSI	RECEIVER TANK SIZE (GALLONS). ORIENTATION	ELECTRICAL VOLTS/PH/HZ	MANUFACTURER / MODEL
AC-1	50	220	197	500 GALLONS, VERTICAL	460/3/60	INGERSOLL RAND RS37I

NOTES:
1. INCLUDE ASME AIR RECEIVER TANK, AUTOMATIC TANK DRAIN, ASME PRESSURE RELIEF VALVE, TANK MOUNTED 0-300 PSIG AIR PRESSURE GAUGE, ENCLOSED BELT GUARD. MOUNTED AND WIRED MAGNETIC STARTER, ON-OFF SWITCH, AIR COOLED AFTER-COOLER, AND SHALL BE MOUNTED ON RUBBER VIBRATION ISOLATION PADS. PROVIDE REFRIGERATED AIR DRYER (D-1) DOWNSTREAM OF AFTER-COOLER.
2. CONTRACTOR TO PROVIDE ALL REQUIRED MATERIALS AND EQUIPMENT PER MANUFACTURER SPECIFICATIONS AND ALL AUTHORITIES HAVING JURISDICTION TO INCLUDE, BUT NOT LIMITED TO:
   A. USE TEFC MOTOR
   B. INSTALL AUTOMATIC DRAIN ON BOTTOM OF RECEIVER TANK
   C. INSULATE ALL PIPES (AIR AND CONDENSATE) EXPOSED TO ELEMENTS
   D. PROVIDE HOUSEKEEPING PAD
   E. AIR FILTER
   F. ADD IN SECONDARY RECEIVER AHEAD OF AIR DRYER
3. COMPRESSED AIR SYSTEM SHALL BE PROVIDED WITH INGERSOLL RAND PRE-FILTER AND POST-FILTER INSTALL PER MANUFACTURER RECOMMENDATIONS.

REFRIGERATED DRYER SCHEDULE

ITEM NO.	TYPE	CAPACITY (CFM)	MAX. PRESSURE (PSI)	DIMENSIONS (L x W x H)	ELECTRICAL VOLTS/PH/HZ	MANUFACTURER / MODEL
D-1	NON-CYCLING	250	300	28" x 33" x 43"	460/3/60	INGERSOLL RAND D420IN

EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	INDIRECT WASTE	DIRECT DRAIN	CW	HW
5	2-COMP. SINK	1-1/2"	-	1/2"	1/2"
6	HAND SINK	1-1/2"	-	1/2"	1/2"

NOTES:
1. REFER TO FOOD SERVICE DRAWINGS FOR ROUGH-IN NOTES.
2. ALL EQUIPMENT REQUIRING WATER CONNECTIONS SHALL BE PROVIDED WITH CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS, WALL ESCUTCHEONS AND CHROME PLATED FLEXIBLE RISERS AND/OR ANY OTHER ACCESSORIES OF SIZE REQUIRED TO HAVE A PROPERLY OPERATIONAL FIXTURE.
3. ALL INDIRECT DRAINS SHALL BE PROVIDED WITH A 2" AIR GAP.

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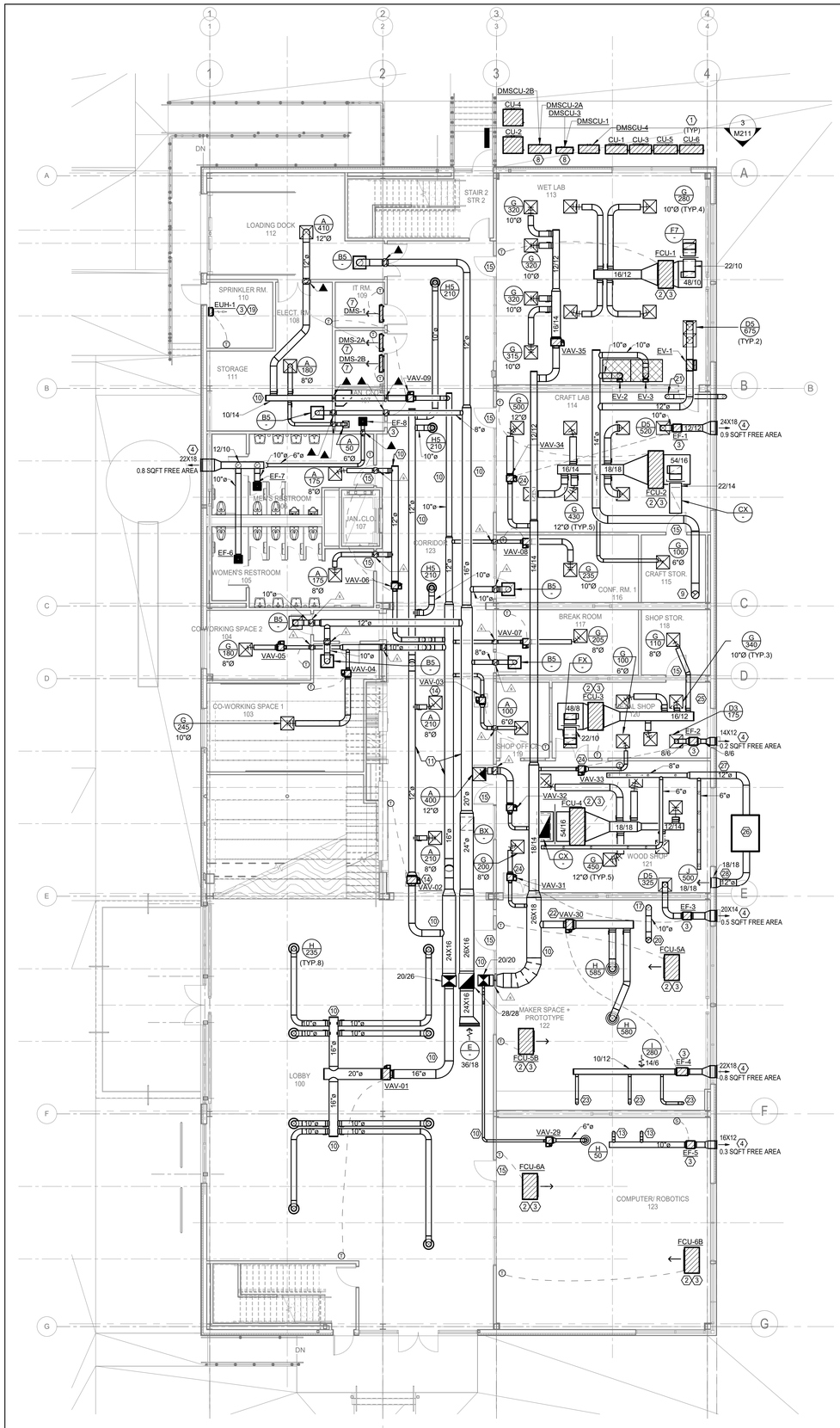
WDG Project No: 2024002

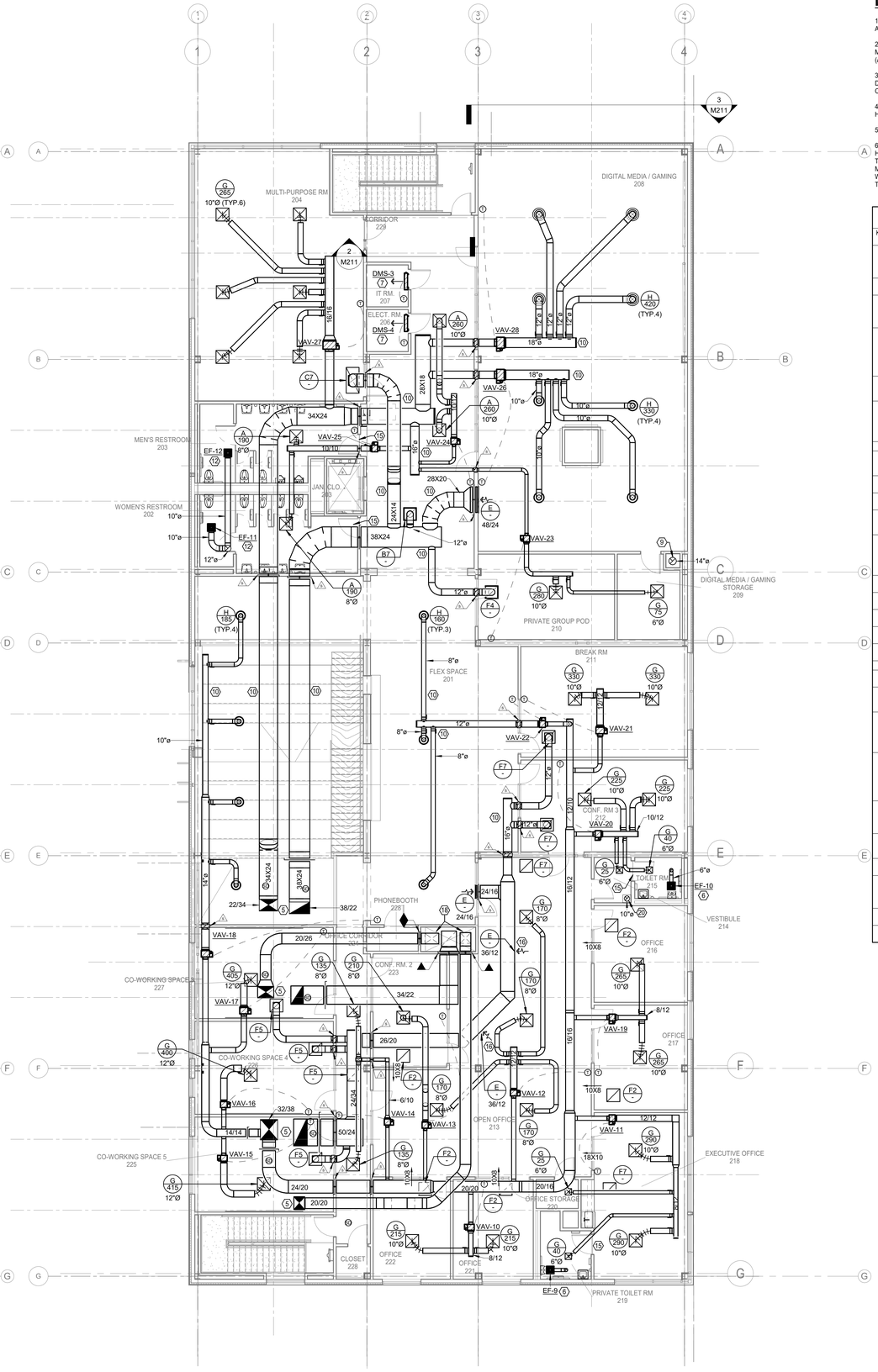
SHEET NAME

PLUMBING SCHEDULES

SHEET NO. P402



1 **FIRST FLOOR MECHANICAL PLAN**
Scale: 1/8" = 1'-0"



2 **SECOND FLOOR MECHANICAL PLAN**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.

2. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN.

3. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.

4. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.

5. ALL EXPOSED DUCT SHALL BE DOUBLE WALLED.

6. ALL VAV BOXES TO BE SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS. VERIFY SERVICE CLEARANCE WITH UNIT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.

MECHANICAL KEYED NOTES

KEYED NOTE	DESCRIPTION
1	PROVIDE 4" THICK REINFORCED CONCRETE HOUSEKEEPING PAD. SIZE PAD PER UNIT MANUFACTURER'S RECOMMENDATIONS. REFER TO STRUCTURAL DRAWINGS FOR MOUNTING DETAILS. (RE: 2/M302)
2	PROVIDE 4" DEEP AUXILIARY CONDENSATE DRAIN PAN WITH FLOAT SWITCH BENEATH UNIT. (RE: 1/M302)
3	SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.
4	ROUTE EXHAUST AIR DUCT (SIZE AS SHOWN) TO EXHAUST LOUVER WITH MINIMUM FREE AREA (SIZE AS SHOWN) SF AND INSECT SCREEN. BASIS OF DESIGN: GREENHECK EHH-501 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS. (RE: 3/M302)
5	EXTEND DUCTWORK UP THROUGH ROOF TO RTU CONNECTION. COORDINATE ROUTING OF DUCTWORK WITH TRUSS SYSTEM. (RE: 8/M302)
6	ROUTE EXHAUST DUCT (SIZE AS SHOWN) UP TO ROOF HOOD. PROVIDE GREENHECK MODEL RCC-7 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS. (RE: 8/M302)
7	MOUNT UNIT ABOVE DOOR.
8	STACK CONDENSING UNIT ON TOP OF THE LOWER UNIT. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS FOR STACKED CONDENSING UNITS.
9	ROUTE FUME HOOD EXHAUST DUCT UP THROUGH ROOF TO LEF-1. (RE: 8/M302)
10	EXPOSED DUCTWORK WITH PAINT GRIP. PAINT FLAT BLACK OR AS SPECIFIED BY ARCHITECT.
11	DUCT ABOVE FLEX SPACE 101 LOCATED NORTH OF GRID LINE E AND SOUTH OF GRID LINE C IS ABOVE CEILING AND WILL NOT NEED TO BE DOUBLE WALLED.
12	ROUTE EXHAUST DUCT (SIZE AS SHOWN) UP TO ROOF HOOD. PROVIDE GREENHECK MODEL GRSR SIZE 12 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS. (RE: 8/M302)
13	ROUTE 5" EXHAUST DUCT DOWN TO EXHAUST SNORKEL. REFER ARCHITECTURAL DRAWINGS FOR MORE DETAILS ON SNORKEL.
14	PROVIDE WITH 2'X2' ACCESS PANEL FOR VAV TERMINAL UNIT. COORDINATE COLOR SELECTION WITH ARCHITECT.
15	COORDINATE WITH ARCHITECT TO PROVIDE 1" UNDERCUT ON DOOR FOR TRANSFER AIR PATH.
16	SIDE WALL RETURN GRILLE TO BE LOCATED ON RETURN DUCT ABOVE CEILING.
17	CONNECT 10" EXHAUST DUCT TO LASER CUTTER EXHAUST SYSTEM.
18	PROVIDE A ¾" ROUND RADIUS FOR 90° TURN.
19	PROVIDE THERMOSTAT INTERLOCKED WITH UNIT HEATER SET TO 40°F.
20	ROUTE LASER CUTTER EXHAUST DUCT UP TO ROOF MOUNTED BLOWER EF-13. REFERENCE 1/M211 FOR CONTINUATION. (RE: 8/M302)
21	ROUTE KILN EXHAUST TO EXTERIOR WALL AND TERMINATE WITH DOWNWARD 90° ELBOW. REFERENCE ARCH DRAWINGS FOR EXACT KILN LOCATION. BASIS OF DESIGN L&L KILNS "VENT-SURE DOWNDRAFT VENT SYSTEM". REFER TO MANUFACTURER FOR INSTALLATION DETAILS.
22	SEQUENCE OF OPERATIONS: WHEN EF-4 IS TURNED ON SET VAV SUPPLY AIR TO 430CFM. EF-4 IS CONNECTED TO OCCUPANCY SENSOR. WHEN EF-13 IS TURNED ON SET VAV SUPPLY AIR TO 1185CFM. EF-13 WILL NEVER BE ON WHEN EF-4 IS OFF. WHEN ROOM IS UNOCCUPIED AND EF-4 IS TURNED OFF SET VAV BOX TO 360CFM.
23	ROUTE 5" EXHAUST DUCT DOWN TO EXHAUST SNORKEL. SEQUENCE SNORKELS TO ALWAYS BE ON WHEN EF-4 IS ON. REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILS ON SNORKEL.
24	SEQUENCE OF OPERATIONS: INTERLOCK VAV BOX WITH EXHAUST FAN. PROVIDE THE MINIMUM CFM WHEN EXHAUST FAN IS OFF, AND PROVIDE MAX WHEN EXHAUST FAN IS ON.
25	PROVIDE INDOOR DUST COLLECTION UNIT FOR METAL SHOP. BASIS OF DESIGN: CAMFIL MODEL ZEPHYR III.
26	PROVIDE OUTDOOR DUST COLLECTOR WITH AIR RECIRCULATION. BASIS OF DESIGN: CAMFIL GOLD SERIES MODEL GS4. COORDINATE WITH ARCHITECT FOR COLOR SELECTION AND EXACT LOCATION. (RE: M303)
27	ROUTE EXHAUST DUST IN CEILING SPACE THROUGH EXTERIOR WALL TO OUTDOOR DUST COLLECTOR.
28	ROUTE DUST COLLECTOR SUPPLY AIR THROUGH EXTERIOR WALL PENETRATE WALL WITH BOTTOM OF DUCT AT 8'-3" AFF.

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PERMIT SET

DRAWING ISSUE

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01/15/2026	PERMIT SET

REVISIONS

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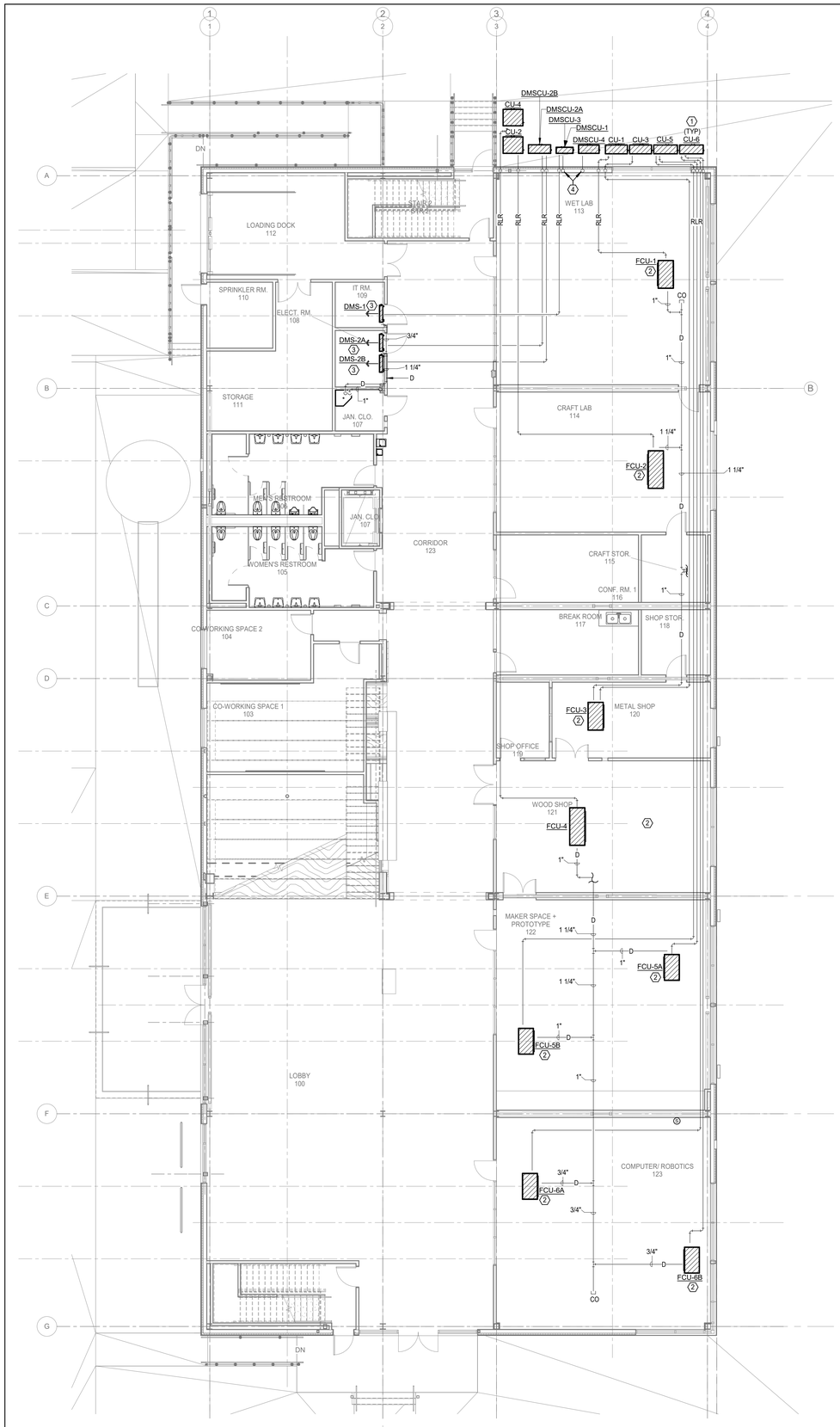
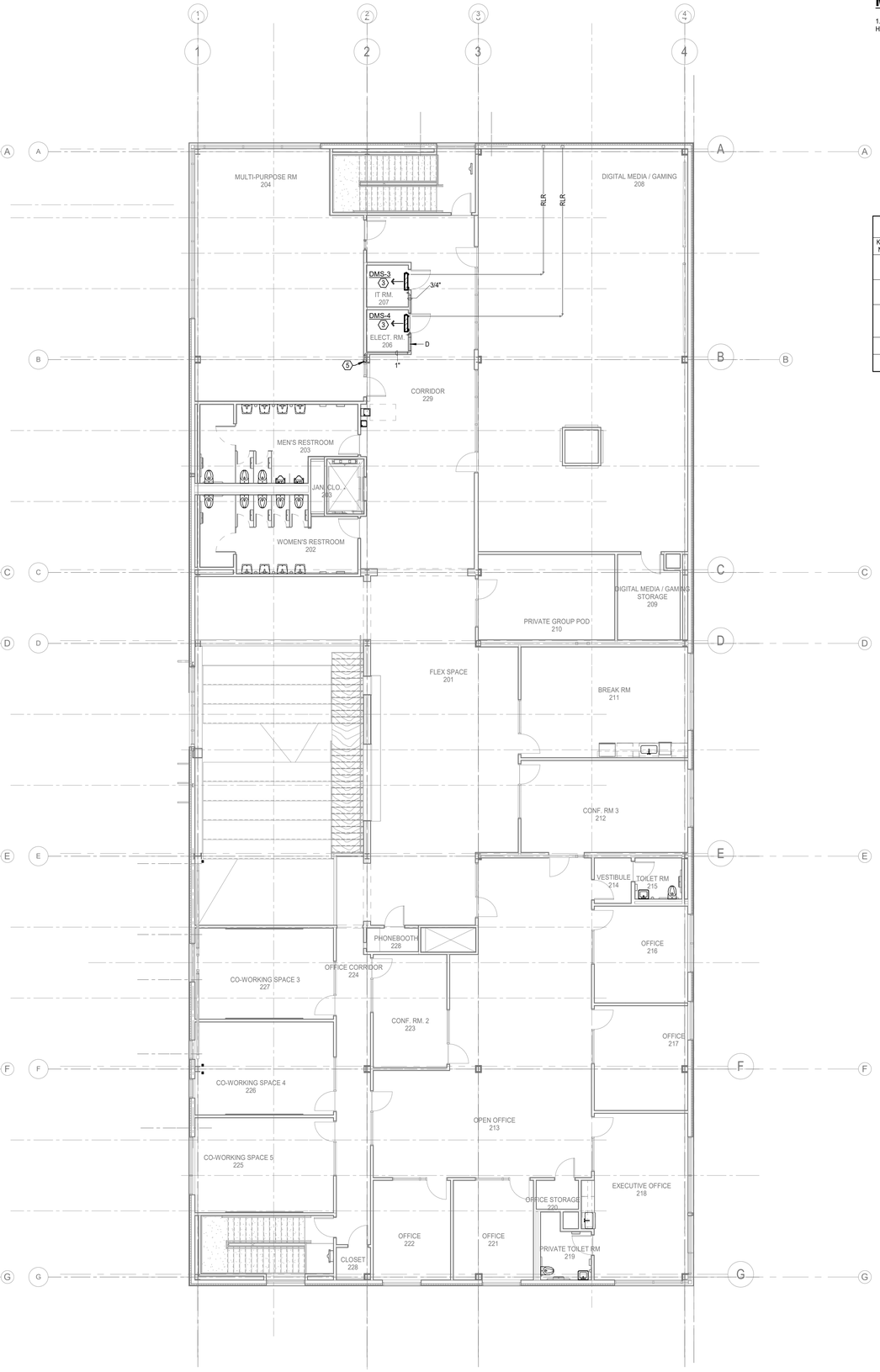
WDG Project No: 2024002

SHEET NAME
MECHANICAL FLOOR PLANS

SHEET NO.
M201



N 1 **FIRST FLOOR MECHANICAL PIPING PLAN**
Scale: 1/8" = 1'-0"



N 2 **SECOND FLOOR MECHANICAL PIPING PLAN**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.

MECHANICAL KEYED NOTES

KEYED NOTE	DESCRIPTION
1	ROUTE REFRIGERANT LINES UP INSIDE EXTERIOR WALL. PENETRATE WALL AT 12" AFF. FIELD ROUTE TO RESPECTIVE INDOOR UNIT. (RE: 1/M/302)
2	ROUTE (SIZE AS SHOWN) INSULATED CONDENSATE DRAIN TO HUB DRAIN AND TERMINATE WITH AIR GAP. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION HUB DRAIN. (RE: 6/M302)
3	ROUTE (SIZE AS SHOWN) INSULATED CONDENSATE DRAIN TO MOP SINK IN 107 JANITOR CLOSET. TERMINATE WITH AIR GAP MINIMUM 1" ABOVE FLOOD LEVEL RIM. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION. (RE: 6/M302)
4	ROUTE REFRIGERANT LINES UP INSIDE EXTERIOR WALL TO 2ND FLOOR. REFERENCE 2/M202 FOR CONTINUATION.
5	ROUTE CONDENSATE DRAIN PIPE DOWN TO 1ST FLOOR. REFER TO SHEET 1/M201 FOR CONTINUATION.

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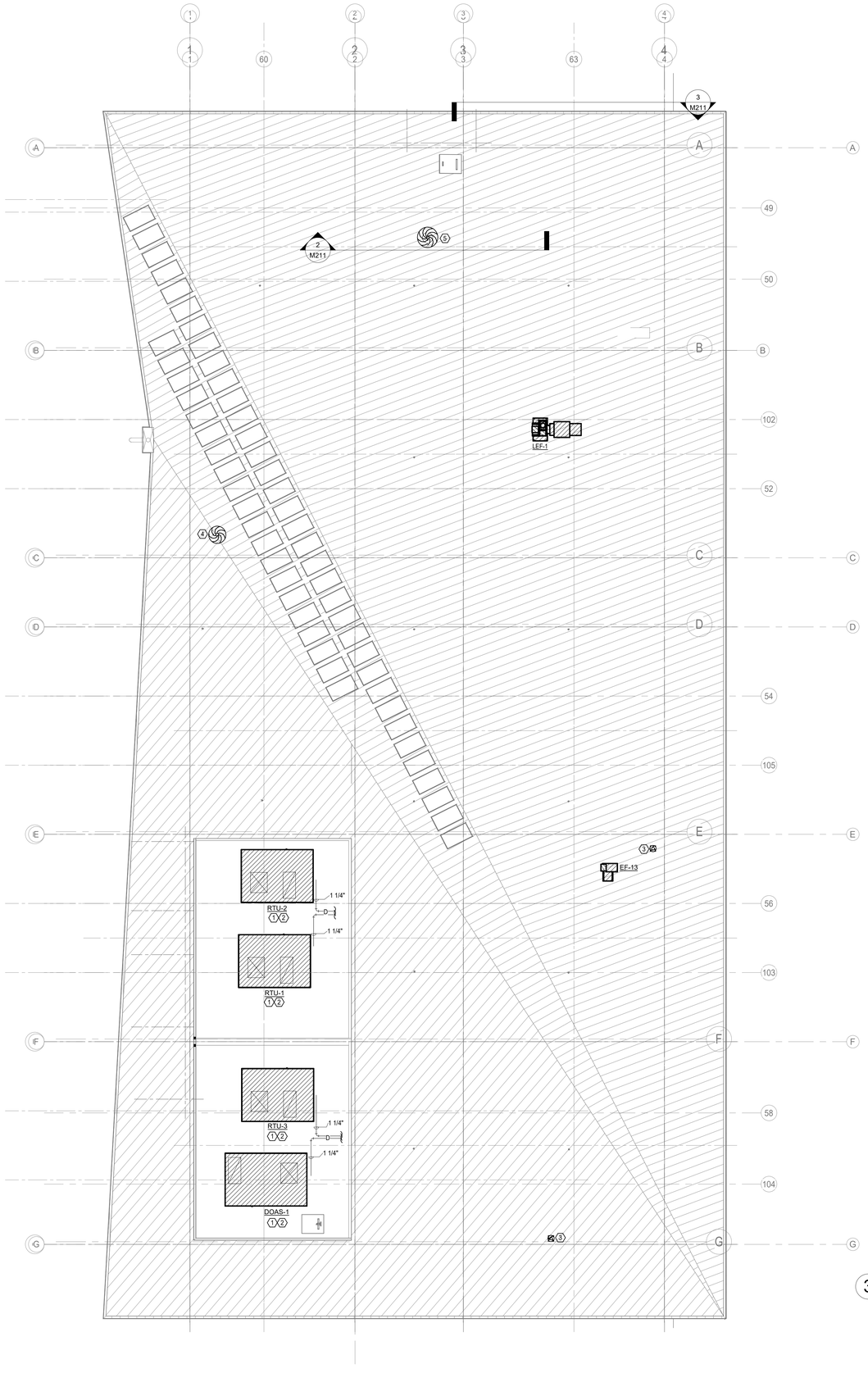
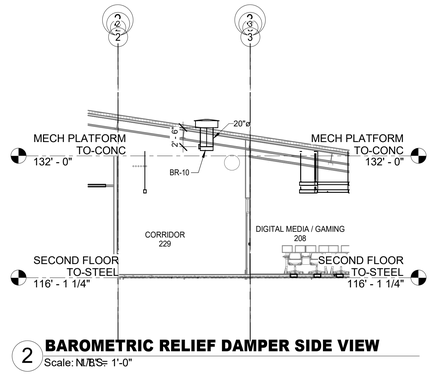
WDG Project No: 2024002

SHEET NAME
MECHANICAL FLOOR PIPING PLANS

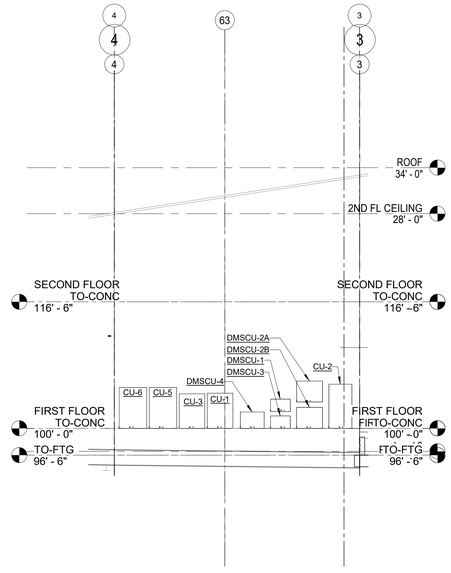
SHEET NO. M202



1 **MECHANICAL ROOF PLAN**
Scale: 1/8" = 1'-0"



2 **BAROMETRIC RELIEF DAMPER SIDE VIEW**
Scale: NTS 1'-0"



3 **CONDENSING UNIT LAYOUT SIDE VIEW**
Scale: NTS 1'-0"

MECHANICAL KEYED NOTES

KEYED NOTE	DESCRIPTION
1	COORDINATE SERVICE CLEARANCE FOR FILTER, COIL, AND FAN REMOVAL, WITH MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. ENSURE SUFFICIENT CLEARANCE IS PROVIDED FOR SERVICE.
2	ROUTE FULL SIZED INSULATED CONDENSATE DRAIN WITH AIR GAP TO ROOF DRAINS. COORDINATE WITH ARCH PLANS FOR EXACT LOCATION.
3	EXHAUST DUCT UP TO ROOF HOOD. PROVIDE GREENHECK MODEL RCC-7 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.
4	EXHAUST DUCT UP TO ROOF HOOD. PROVIDE GREENHECK MODEL GRSR SIZE 12 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.
5	PROVIDE ROOF RELIEF VENTILATOR. BASIS OF DESIGN GREENHECK GRSR SIZE 20 WITH BIRD SCREEN AND 2'-6" OF DUCT WITH AUTOMATIC RELIEF DAMPER GREENHECK BR-10 OR APPROVED EQUAL FOR BUILDING PRESSURIZATION CONTROL. REFERENCE 2/M211 FOR ELEVATION VIEW.

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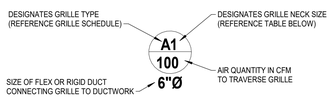
SHEET NAME
MECHANICAL ROOF PLAN

SHEET NO.
M211

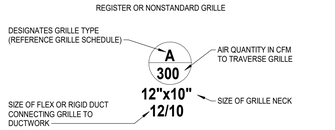
GRILLE SIZING SCHEDULE

STANDARD GRILLE



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

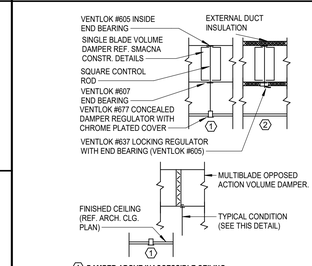
REGISTER OR NONSTANDARD GRILLE



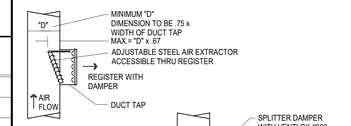
ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

DUCTWORK CONSTRUCTION DETAILS

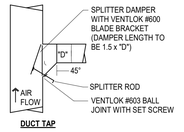


1. DAMPER ABOVE INACCESSIBLE CEILING
2. DAMPER ABOVE LIFT-OUT CEILING

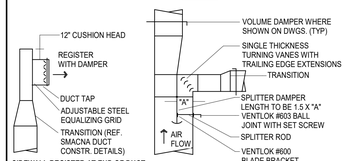


NOTES:
1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN.= 4")

EXTRACTOR SIDEWALL REGISTER



DUCT TAP

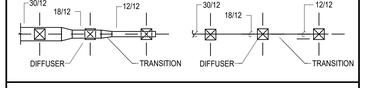


SIDEWALL REGISTER AT END OF DUCT

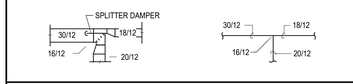
SPLITTER

DUCTWORK SYMBOLS LEGEND

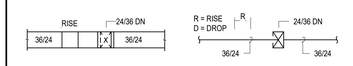
TRANSITIONS



MAIN BRANCH TAKE-OFFS

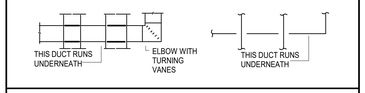


RISERS

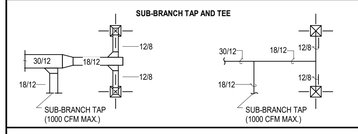


SIDEWALL REGISTERS

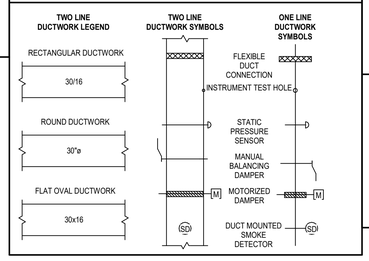
DUCT CROSSOVERS



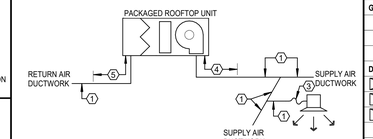
SUB-BRANCH TAP AND TEE



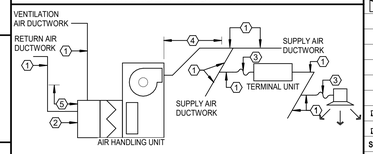
TWO LINE DUCTWORK LEGEND	TWO LINE DUCTWORK SYMBOLS	ONE LINE DUCTWORK SYMBOLS



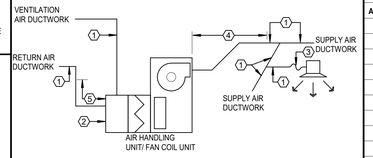
DUCT LINER AND INSULATION



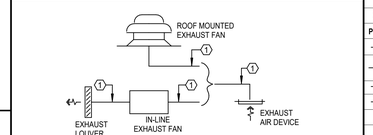
PACKAGED ROOFTOP UNIT



VARIABLE AIR VOLUME AIR HANDLING UNITS



AIR HANDLING UNITS AND FAN COIL UNITS



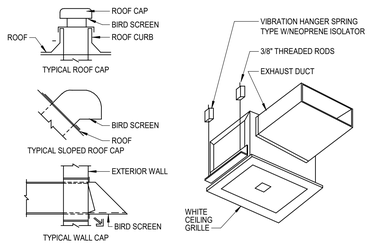
EXHAUST AIR SYSTEMS

KEYED NOTES:

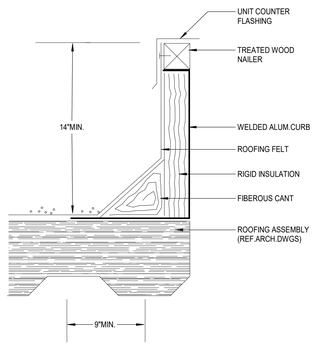
1. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
2. SHEETMETAL DUCTWORK RETURN AIR PLENUM WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
3. FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
4. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT DISCHARGE TO 10'-0" DOWNSTREAM.
5. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT INLET TO 10'-0" UPSTREAM.

SYMBOL LEGEND

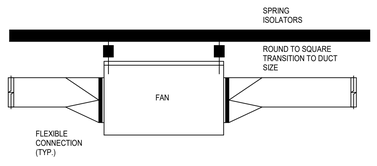
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
#	KEY NOTE TAG
#	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
SD	SMOKE DAMPER (VERTICAL)
SD	SMOKE DAMPER (HORIZONTAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
H	HUMIDISTAT
SD	SMOKE DETECTOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
D	CONDENSATE DRAIN LINE
RLR	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
	CONTINUATION
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR



5 CABINET CEILING FAN
SCALE: NONE

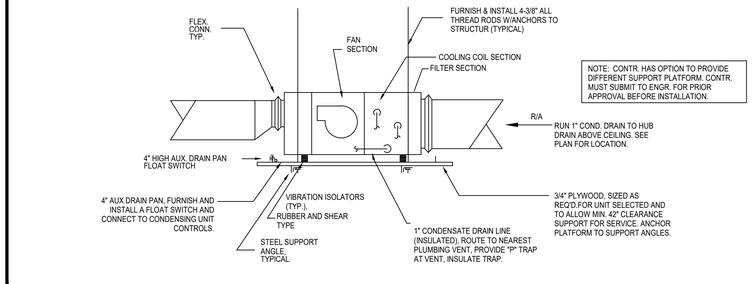


4 ROOF CURB
SCALE: NONE

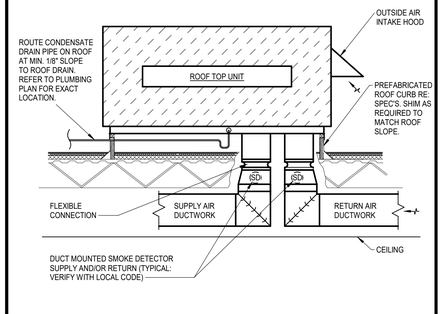


3 INLINE FAN DETAIL
SCALE: NONE

ALL AIR HANDLING UNITS PROVIDING OVER 2000 CFM AND LOCATED INSIDE ANY BUILDING WITHOUT A FIRE ALARM SYSTEM SHALL HAVE INDIVIDUAL AUDIO AND VISUAL ALARMS PLACED ON NEAREST WALL TO THE UNITS. COORDINATE WITH ARCHITECT.



2 AIR HANDLING UNIT SECTION
SCALE: NONE



1 ROOFTOP UNIT ELEVATION
SCALE: NONE

WILLARD DESIGN GROUP
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PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

01/15/2026

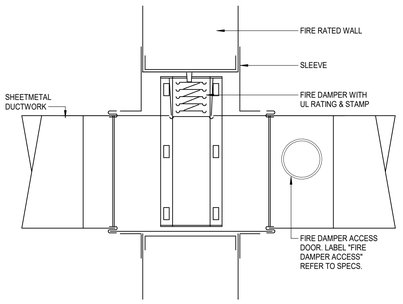
Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

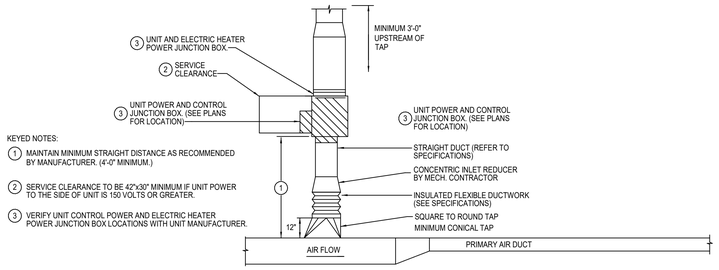
SHEET NAME

MECHANICAL DETAILS

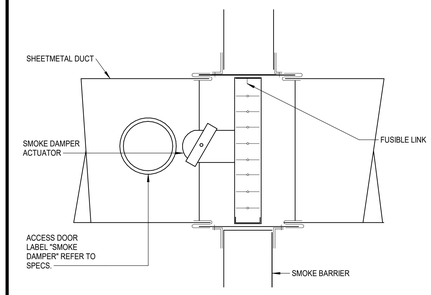
SHEET NO. M301



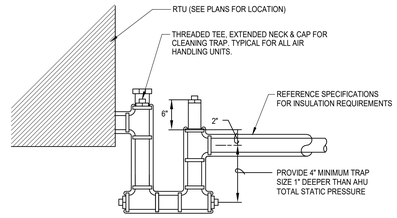
14 FIRE DAMPER
SCALE: NONE



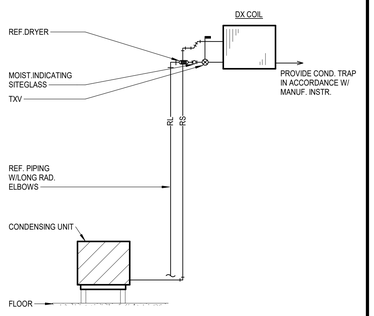
13 VARIABLE AIR VOLUME BOX
SCALE: NONE



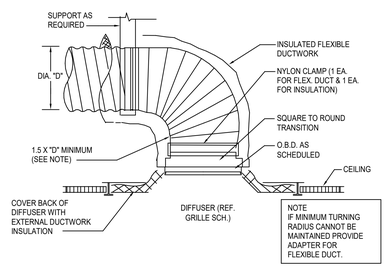
12 SMOKE DAMPER
SCALE: NONE



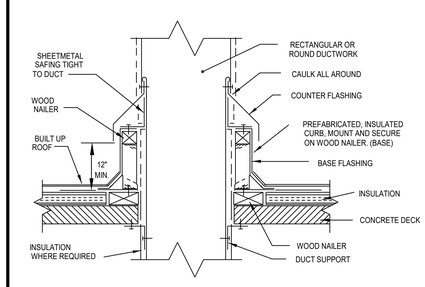
11 CONDENSATE DRAIN PIPING AT RTU
SCALE: NONE



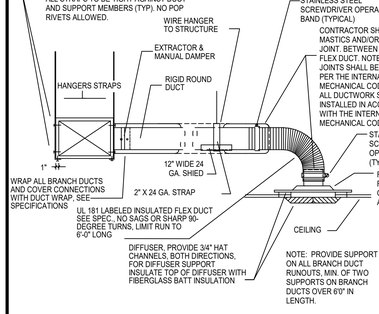
10 REFRIGERANT PIPING DIAGRAM
SCALE: NONE



FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
9
SCALE: NONE



8 DUCT PENETRATION THRU ROOF
SCALE: NONE



7 DIFFUSER CONNECTION
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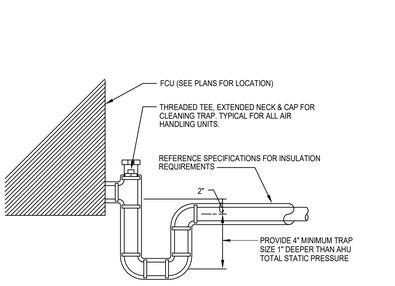
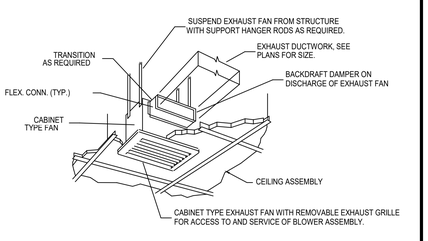
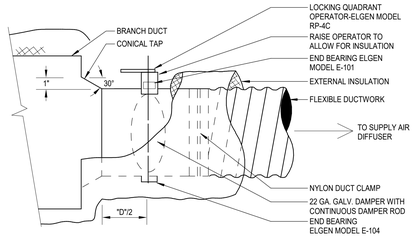


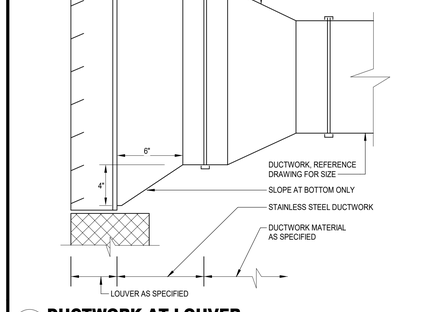
6 CONDENSATE DRAIN PIPING AT FCU
SCALE: NONE



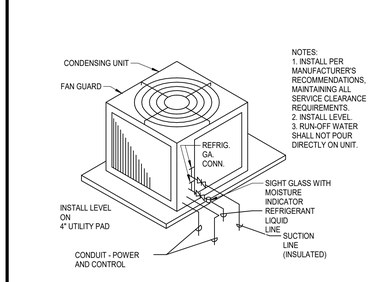
5 CEILING MOUNTED EXHAUST FAN
SCALE: NONE



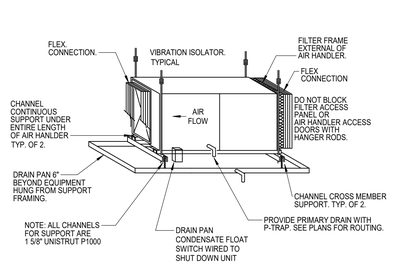
4 FLEXIBLE DUCT TAP - CONICAL
SCALE: NONE



3 DUCTWORK AT LOUVER
SCALE: NONE



2 CONDENSING UNIT ON UTILITY PAD
SCALE: NONE



1 AIR HANDLING UNIT HUNG FROM STRUCTURE
SCALE: NONE

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REVISIONS

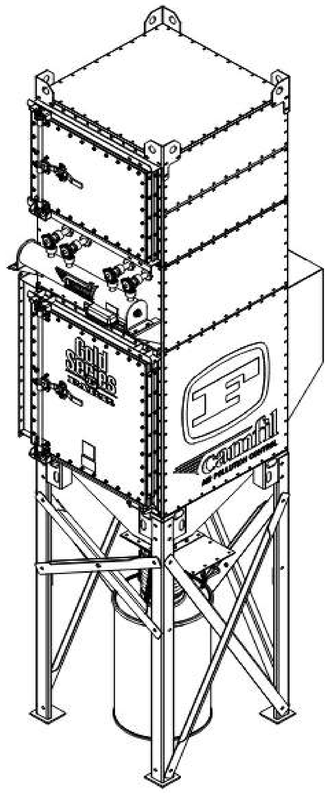
STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
01/15/2026

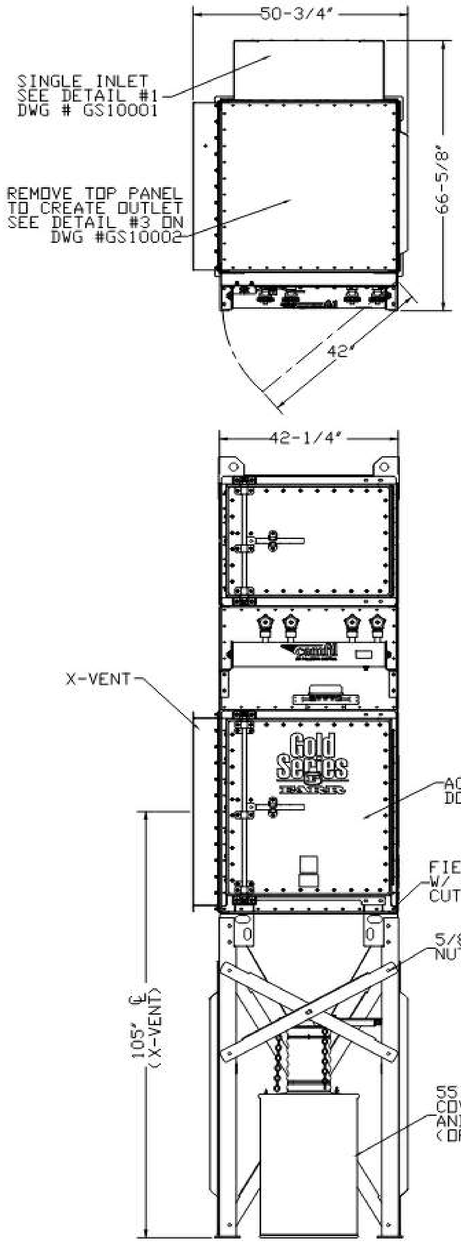
Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

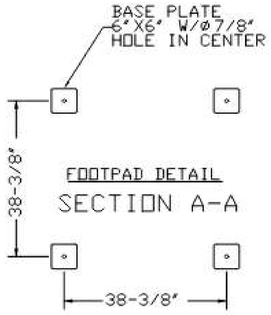
SHEET NAME
MECHANICAL DETAILS

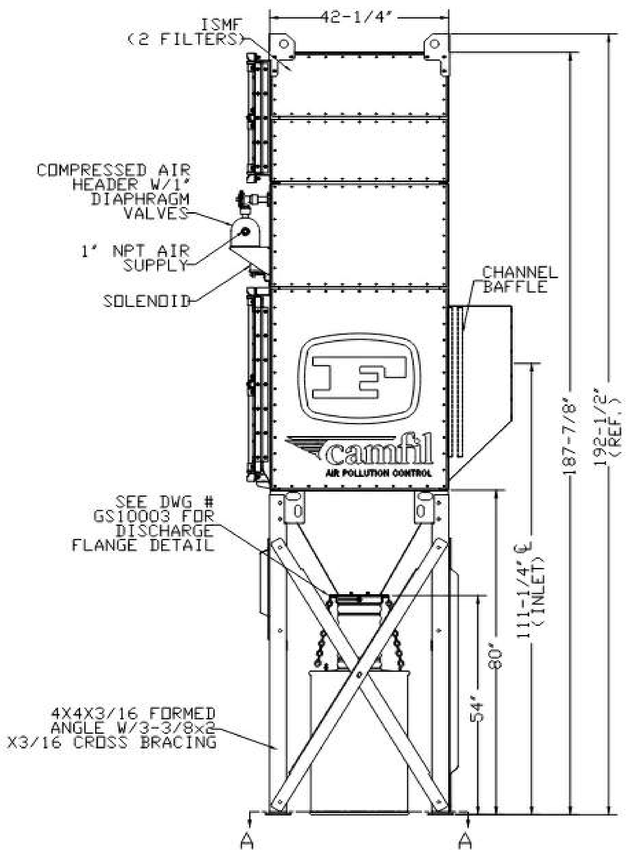
SHEET NO.
M302





FDC10 CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD





ITEM NO.	PART NUMBER	QTY.	UNITS	DESCRIPTION
1	223704M04	1	EA	GS4 MOD FOR SD #
2	224753001	1	EA	GS HPPR, 1x1, 26"H, 10"D, PTD
3	215831001	1	EA	GS4 SUPPORT, 80"H, FORMED
4	216908004	1	EA	GS4 INSTALLATION KIT
5	214238010	1	EA	DRUM KIT, 10", W/CHAIN, 55GA
6	219294001	1	EA	FIGURE EIGHT STICKER ASSY
7	208165001	40	LBS	PNT, PWDR, FARR GREEN, ALLIGATOR
8	214538010	1	EA	FDC 10 FARR CNTRL KIT 10 PIN
SALES ORDER				
2	325325001	4	EA	FLTR-GS-GR-325

SPECIFICATIONS:

1. MODULAR CONSTRUCTION FROM 10 Go & 7 Go HRCS
2. SOLID STATE TIMER CONTROLS REQUIRE 120/240 VAC SINGLE PHASE 50/60 HZ.
3. SOLENOIDS REQUIRE 120/1/60 VAC.
4. SOLENOID ENCLOSURE NEMA 4 RATED, INTEGRATED TIMER CONTROL ENCLOSURE NEMA 12 RATED, OTHER ELECTRICAL DEVICE ENCLOSURES & FARR DUST COLLECTOR TIMER ENCLOSURE NEMA 4X RATED. NEMA 4-INDOOR/OUTDOOR USE NEMA 4X-INDOOR/OUTDOORS+CORROSION PROTECTION NEMA 12-INDOOR USE, NO WATER PROTECTION (DUST TIGHT ONLY)
5. IMPORTANT NOTE: FANS TYPICALLY EXPERIENCE FOUR TO TEN TIMES THE FULL LOAD AMPS DURING START-UP. CIRCUITS AND FUSES MUST BE ADJUSTED ACCORDINGLY.
6. CLEANING SYSTEM REQUIRES 15 SCFM OF CLEAN DRY COMPRESSED AIR WITH FACTORY SETTINGS AT 90 PSI.
7. OPERATING VESSEL PRESSURE: WITH X-VENT: -3 TO 0 PSIG W/OUT X-VENT: -3 TO 1 PSIG
8. EXPLOSION VESSEL STRENGTH: 9.75 PSIG
9. WEIGHTS (COLLECTOR & FILTERS): 1951 LBS (HOPPER & SUPPORT): 453 LBS TOTAL WEIGHT: 2404 LBS
10. ITEMS 2 & 3 MAY BE SHIPPED ASSEMBLED

MODEL: GS4

APPLICATION DATA:

CFM: @" W.G.
AIR-TO-CLOTH RATIO:
DUST LOADING:
APPLICATION:
PRED:
KST:
PMAX:

SHIPPING INFO:

EQUIPMENT END USER:

CUSTOMER REP:

P.O. #:
FARR #:

**THE CUSTOMER ASSUMES THE RESPONSIBILITY FOR CONTACTING THEIR INSURANCE UNDERWRITER AND ADVISING CAMFIL/FARR IN REGARD TO SPECIFIC APPLICATION REQUIREMENTS OF EXPLOSION VENTING OR IF ADDITIONAL FIRE PROTECTION AND SAFETY EQUIPMENT MAY BE REQUIRED. THE BUYER IS ALSO CAUTIONED TO ADHERE TO PRESCRIBED OSHA, NFPA, FEDERAL, STATE AND LOCAL CODES AND REGULATIONS APPLICABLE TO INDUSTRIAL VENTILATION SYSTEMS, WHICH CAMFIL/FARR EQUIPMENT MAY BE APPLIED ON.

*ALL DRAWINGS & DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. STANDARD FARR SALES DRAWING (NOT FOR CONSTRUCTION)

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Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
MECHANICAL DETAILS

SHEET NO.
M303

LAB EXHAUST AIR TERMINAL

MARK	MAXIMUM CFM	MINIMUM CFM	INLET DIAMETER SIZE (IN.)	REMARKS
EV-1	1355	90	12	1
EV-2	667	50	10	1
EV-3	667	50	10	1

GENERAL NOTES:
1. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 1" ESP.
2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.
3. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID MOUNTING OVER LIGHTS WHEREVER POSSIBLE.

REMARKS:
1. PROVIDE WITH BACNET INTERFACE CONTROLLER.

VARIABLE VOLUME TERMINAL BOX (ELECTRIC HEAT)

MARK	MAXIMUM CFM	MINIMUM CFM	INLET	HEATING KW	V	P	F	REMARKS
VAV-01	1,880	1,370	14	8.9	277	1	60	1
VAV-02	1,050	415	12	5.0	277	1	60	1
VAV-03	100	100	4	0.5	277	1	60	1
VAV-04	245	170	6	1.2	277	1	60	1
VAV-05	180	130	6	0.9	277	1	60	1
VAV-06	350	350	6	1.7	277	1	60	1
VAV-07	205	100	6	1.0	277	1	60	1
VAV-08	235	155	6	1.1	277	1	60	1
VAV-09	640	640	6	3.0	277	1	60	1
VAV-10	430	260	8	2.0	277	1	60	1
VAV-11	650	180	8	3.1	277	1	60	1
VAV-12	680	185	8	3.2	277	1	60	1
VAV-13	210	100	6	1.0	277	1	60	1
VAV-14	270	100	6	1.3	277	1	60	1
VAV-15	415	180	8	2.0	277	1	60	1
VAV-16	400	100	6	1.9	277	1	60	1
VAV-17	405	180	8	1.9	277	1	60	1
VAV-18	735	260	10	3.5	277	1	60	1
VAV-19	530	180	8	2.5	277	1	60	1
VAV-20	515	180	8	2.4	277	1	60	1
VAV-21	660	180	8	3.1	277	1	60	1
VAV-22	480	180	8	2.3	277	1	60	1
VAV-23	355	210	6	1.7	277	1	60	1
VAV-24	520	240	8	2.5	277	1	60	1
VAV-25	380	380	6	1.8	277	1	60	1
VAV-26	1,320	360	12	6.3	277	1	60	1
VAV-27	1,590	1,020	14	7.5	277	1	60	1
VAV-28	1,680	480	14	8.0	277	1	60	1
VAV-29	50	50	4	0	277	1	60	1
VAV-30	1,165	360	12	0	277	1	60	1
VAV-31	200	100	6	0	277	1	60	1
VAV-32	400	180	8	0	277	1	60	1
VAV-33	100	75	4	0	277	1	60	1
VAV-34	500	180	8	0	277	1	60	1
VAV-35	1,275	360	12	0	277	1	60	1

GENERAL NOTES:
1. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 0.2" W.G.
2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.
3. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. REFER TO MANUFACTURER FOR MORE DETAILS.
4. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID MOUNTING OVER LIGHTS WHEREVER POSSIBLE.

REMARKS:
1. PROVIDE WITH BACNET INTERFACE CONTROLLER.

DX FAN/COIL UNIT

MARK	FAN						COOLING							HEATING						BASIS OF DESIGN		ELECTRICAL		REMARKS
	SUPPLY AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHAR V	P	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	NOM. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER2/ SEER2/IEER2	ENTERING AIR TEMP.(°F)	LEAVING AIR TEMP.(°F)	NOM. TOTAL CAPACITY (BTUH)	CURRENT CHAR V	P	F	MANUFACTURER	MODEL	MCA	MOCP	
FCU-1	1,130	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	36,000	23,400	-/14.3/-	70	90	40,000	208	1	60	LG	KNUJB	3	15	1,2,3,4,5,6,7,8
FCU-2	2,250	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	76,000	41,200	10.5/-/13.4	70	90	80,000	208	1	60	LG	ZRNU	3	15	1,2,3,4,5,6,7,8
FCU-3	1,130	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	36,000	21,170	-/14.3/-	70	90	40,000	208	1	60	LG	KNUJB	3	15	1,2,3,4,5,6,7,8
FCU-4	2,250	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	76,000	41,100	10.5/-/13.4	70	90	80,000	208	1	60	LG	ZRNU	3	15	1,2,3,4,5,6,7,8
FCU-5A	950	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	36,000	23,500	10.5/-/13.4	70	90	40,000	208	1	60	LG	ARNU	3	15	1,2,3,4,5,6,7,9,10
FCU-5B	495	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	24,000	14,500	10.5/-/13.4	70	90	40,000	208	1	60	LG	ARNU	3	15	1,2,3,4,5,6,7,9,10
FCU-6A	475	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	18,000	10,500	10.5/-/13.4	70	90	21,500	208	1	60	LG	ARNU	3	15	1,2,3,4,5,6,7,9,10
FCU-6B	475	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	18,000	10,500	10.5/-/13.4	70	90	21,500	208	1	60	LG	ARNU	3	15	1,2,3,4,5,6,7,9,10

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. PROVIDE WITH 7 DAY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. PROVIDE HORIZONTAL UNIT.
5. PROVIDE WITH SINGLE POINT CONNECTION.
6. PROVIDE WITH FILTER BOX.
7. PROVIDE WITH BACNET INTERFACE CONTROLLER.
8. PROVIDE CEILING CONCEALED UNIT.
9. PROVIDE CEILING SUSPENDED UNIT.
10. PROVIDE WITH CONDENSATE PUMP WITH MINIMUM 18" OF LIFT.

AIR COOLED CONDENSING UNIT

MARK	NOM. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER2/SEER2/IEER2	MINIMUM HSPF2/COP	RELATED UNIT MARK	ELECTRICAL CURRENT CHAR. V	P	F	MCA	MOCP	BASIS OF DESIGN MANUFACTURER	MODEL	REMARKS
CU-1	36,000	93.5	-/14.3/-	7.5/-	FCU-1	208	1	60	32	35	LG	KUSXB	1,2,3
CU-2	72,000	93.5	10.5/-/13.4	-/3.4	FCU-2	208	3	60	32	35	LG	ZRUM	1,2,3
CU-3	36,000	93.5	-/14.3/-	7.5/-	FCU-3	208	1	60	32	35	LG	KUSXB	1,2,3
CU-4	72,000	93.5	10.5/-/13.4	-/3.4	FCU-4	208	3	60	32	35	LG	ZRUM	1,2,3
CU-5	72,000	93.5	10.5/-/13.4	-/3.4	FCU-5A, 5B	208	1	60	25	40	LG	ARUN	1,2,3
CU-6	72,000	93.5	10.5/-/13.4	-/3.4	FCU-6A, 6B	208	1	60	25	40	LG	ARUN	1,2,3

GENERAL NOTES:
A. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT CONTROL DOWN TO 20°F.
2. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE WITH COIL GUARD.
4. PROVIDE WITH INVERTER TYPE COMPRESSOR
5. PROVIDE WITH BACNET INTERFACE CONTROLLER

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	AT TAP	ALUMINUM	BY ARCH	TITUS	OMNI	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE.
B	RETURN AIR	DIFFUSER	-	ALUMINUM	BY ARCH	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24".
C	RETURN AIR	DIFFUSER	-	ALUMINUM	BY ARCH	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X48" FACE.
D	EXHAUST AIR	DIFFUSER	-	ALUMINUM	BY ARCH	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" OR 12"X12" FACE. PERFORATED FACE.
E	RETURN AIR	GRILLE	-	ALUMINUM	BY ARCH	TITUS	350FL	35 DGREE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
F	RETURN AIR	DIFFUSER	-	ALUMINUM	BY ARCH	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" FACE. PERFORATED.
G	SUPPLY AIR	DIFFUSER	AT TAP	ALUMINUM	BY ARCH	TITUS	OMNI	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" OR 12"X12" FACE.
H	SUPPLY AIR	DIFFUSER	AT TAP	ALUMINUM	BY ARCH	TITUS	R-OMNI	EXPOSED ROUND FRAME STYLE WITH ADJUSTABLE POSITION DAMPER.
I	EXHAUST AIR	GRILLE	-	ALUMINUM	BY ARCH	TITUS	350FL	35 DEGREE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
J	SUPPLY AIR	GRILLE	-	ALUMINUM	BY ARCH	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)

GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

ROOF MOUNTED DEDICATED OUTDOOR AIR UNIT - (VARIABLE AIR VOLUME)

MARK	FAN					CURRENT			COOLING							HEATING						BASIS OF DESIGN		ELECTRICAL		REMARKS
	SUPPLY AIR CFM	MIN. SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C)	HORSE POWER	V	PH	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENS CAPACITY (BTUH)	MIN. ISMRE	ENTERING AIR TEMP (°F)	LEAVING AIR TEMP.(°F)	KW	CURRENT V	P	F	MANUFACTURER	MODEL	MCA	MOCP	
DOAS-1	3,690	1,305	3,690	1.90	5.0	480	3	60	93.5	78.7	55.0	54.5	318,320	153,430	4	25.0	75	58	480	3	60	AAON	RNA	82	90	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE UNIT WITH DISCONNECT SWITCH & MOTORIZED OUTSIDE AIR DAMPER.
2. PROVIDE WITH VIBRATION ISOLATION ROOF CURB.(REFER TO SPECS). CURB SHALL BE SUFFICIENT HEIGHT TO ENSURE OUTDOOR AIR INTAKE IS MINIMUM 36" ABOVE FINISHED ROOF LEVEL.
3. PROVIDE UNIT WITH FACTORY MOUNTED GFCI RECEPTACLE FOR UNIT.
4. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
5. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL COSTS IF ALTERNATE UNIT IS PROVIDED WITH GREATER ELECTRICAL CHARACTERISTICS THAN SHOWN.
6. PROVIDE WITH HOT GAS RE-HEAT KIT DOWNSTREAM OF COOLING COIL. UNIT SHALL BE CAPABLE OF REHEATING TO NEUTRAL 75 DEG F (ADJUSTABLE) WHEN UNIT IS IN COOLING MODE.
7. MECHANICAL CONTRACTOR SHALL PROVIDE WITH SMOKE DETECTOR IN SUPPLY AND RETURN AIR DUCTWORK. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION.
8. PROVIDE WITH BOTTOM DISCHARGE UNIT.
9. PROVIDE WITH VFD.
10. PROVIDE WITH INVERTER COMPRESSOR ON LEAD CIRCUIT. UNIT SHALL BE ABLE TO PROVIDE SCHEDULED OUTSIDE AIR AT ALL TIME INCLUDING DURING PART LOADING.
11. PROVIDE WITH BACNET INTERFACE CONTROLLER
12. PROVIDE WITH LOW AMBIENT CONTROL.
13. PROVIDE WITH 36" TALL ROOF CURB.

DAMPER

MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

NOTES:
N/A - NOT APPLICABLE

PACKAGED ROOFTOP UNIT - (VARIABLE AIR VOLUME)

MARK	FAN					CURRENT CHARAC.			COOLING									BASIS OF DESIGN		ELECTRICAL		REMARKS
	SUPPLY AIR CFM	MIN. SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	V	P	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	AMBIENT TEMP	LEAVING DRY BULB	LEAVING WET BULB	MIN. TOTAL CAPACITY (BTU)	MIN. SENSIBLE CAPACITY (BTU)	MINIMUM EER/ IEER	NUMBER OF STAGES	MANUF.	MODEL NUMBER	MCA	MOCP	
RTU-1	4,885	3,430	685	2.90	7.5	480	3	60	77.5	65.4	93.5	55	54.5	164,000	118,700	11/14.2	2	AAON	RNA	45	50	ALL
RTU-2	5,845	2,690	770	2.30	7.5	480	3	60	77.4	65.0	93.5	55	54.5	200,300	146,000	11/14.2	2	AAON	RNA	49	60	ALL
RTU-3	6,370	2,265	1,040	3.10	7.5	480	3	60	77.9	65.5	93.5	55	54.5	228,000	155,000	11/14.2	2	AAON	RNA	54	70	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, AND DAMPERS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE UNIT WITH DISCONNECT SWITCH & MOTORIZED OUTSIDE AIR DAMPER.
2. PROVIDE WITH VIBRATION ISOLATION ROOF CURB.(REFER TO SPECS). CURB SHALL BE SUFFICIENT HEIGHT TO ENSURE OUTDOOR AIR INTAKE IS MINIMUM 36" ABOVE FINISHED ROOF LEVEL.
3. PROVIDE UNIT WITH FACTORY MOUNTED GFCI RECEPTACLE FOR UNIT.
4. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
5. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL COSTS IF ALTERNATE UNIT IS PROVIDED WITH GREATER ELECTRICAL CHARACTERISTICS THAN SHOWN.
6. PROVIDE WITH LOW AMBIENT CONTROL.
7. MECHANICAL CONTRACTOR SHALL PROVIDE WITH SMOKE DETECTOR IN SUPPLY DUCTWORK. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION.
8. PROVIDE WITH BOTTOM DISCHARGE UNIT.
9. PROVIDE WITH VFD.
10. PROVIDE WITH INVERTER COMPRESSOR ON LEAD CIRCUIT. UNIT SHALL BE ABLE TO PROVIDE SCHEDULED OUTSIDE AIR AT ALL TIME INCLUDING DURING PART LOADING.
11. PROVIDE WITH NEEDLEPOINT BIPOLAR IONIZATION KIT WITH UL 2998 CERTIFICATION. BASIS OF DESIGN: GPS NBPI.
12. PROVIDE WITH BACNET INTERFACE CONTROLLER.
13. PROVIDE WITH 36" TALL ROOF CURB.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT COOLING ONLY

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER2/ SEER2	RELATED UNIT MARK	ELECTRICAL CURRENT CHARAC. V	P	F	MCA	MOCP	BASIS OF DESIGN MANUFACTURER	MODEL	REMARKS
DMSCU-1	12,000	93.5	12 / 18	DMS-1	208	1	60	10.0	15	LG	KUSAE	1,2,3,4
DMSCU-2A	30,000	93.5	11.3 / 21	DMS-2A	208	1	60	23.0	30	LG	KUSAP	1,2,3,4
DMSCU-2B	30,000	93.5	11.3 / 21	DMS-2B	208	1	60	23.0	30	LG	KUSAP	1,2,3,4
DMSCU-3	12,000	93.5	12 / 18	DMS-3	208	1	60	10.0	15	LG	KUSAE	1,2,3,4
DMSCU-4	18,000	93.5	12 / 18	DMS-4	208	1	60	15.0	20	LG	KUSAE	1,2,3,4

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT KIT.
2. PROVIDE WITH HAIL GUARD.
3. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE WITH BACNET INTERFACE CONTROL

DUCTLESS MINI-SPLIT - INDOOR UNIT COOLING ONLY

MARK	FAN SUPPLY AIR CFM	HORSE POWER	CURRENT CHARAC. V	P	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	COOLING NOM. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER2/ SEER2	REMARKS
DMS-1	400	0.1	208	1	60	80.0	67.0	12,000	9,000	12 / 18	1,2,3,4,5,6,7
DMS-2A	1,000	0.1	208	1	60	80.0	67.0	30,000	20,000	11.3 / 21.0	1,2,3,4,5,6,7
DMS-2B	1,000	0.1	208	1	60	80.0	67.0	30,000	20,000	11.3 / 21.0	1,2,3,4,5,6,7
DMS-3	400	0.1	208	1	60	80.0	67.0	12,000	9,000	12 / 18	1,2,3,4,5,6,7
DMS-4	600	0.1	208	1	60	80.0	67.0	18,000	13,000	12 / 18	1,2,3,4,5,6,7

GENERAL NOTES:
1. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. PROVIDE WITH 7 DAY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. BASIS OF DESIGN: DAIKIN FTKB.
6. PROVIDE WITH CONDENSATE PUMP.
7. PROVIDE WITH BACNET INTERFACE CONTROLLER.

FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR V	P	F	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	BASIS OF DESIGN MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	CRAFT LAB	520	0.25	1,300	0.17	120	1	60	OCCUPANCY SENSOR WITH TIMER	INLINE	DIRECT	GREENHECK	SQ	1
EF-2	METAL SHOP	175	0.25	915	0.17	120	1	60	OCCUPANCY SENSOR WITH TIMER	INLINE	DIRECT	GREENHECK	SQ	1
EF-3	WOODWORKIN SHOP	325	0.25	1,405	0.17	120	1	60	OCCUPANCY SENSOR WITH TIMER	INLINE	DIRECT	GREENHECK	SQ	1
EF-4	MAKER SPACE	580	0.25	965	0.25	120	1	60	OCCUPANCY SENSOR WITH TIMER	INLINE	DIRECT	GREENHECK	SQ	1
EF-5	COMPUTER / ROBOTICS	200	0.25	1,335	0.17	120	1	60	SWITCH	INLINE	DIRECT	GREENHECK	SQ	1
EF-6	RESTROOM	250	0.25	1,000	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-7	RESTROOM	250	0.25	1,000	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-8	JANITOR	50	0.25	1,345	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-9	TOILET	70	0.25	1,410	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-10	TOILET	70	0.25	1,410	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-11	RESTROOM	250	0.25	1,000	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-12	RESTROOM	250	0.25	1,000	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-13	ROOF	735	3.00	2,655	0.75	208	3	60	LASER CUTTER	ROOF MOUNTED	BELT	GREENHECK	USF	3
LEF-1	ROOF	1425	3.00	2,635	3	208	3	60	LAB HOOD CONTROLS	HIGH PLUME	DIRECT	GREENHECK	VK-CH	4

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH HANGING ISOLATION KIT, PRE-WIRED DISCONNECT MOTORIZED DAMPER, AND BACKDRAFT DAMPER.
2. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER, VIBRATION ISOLATION, SPEED CONTROLLER, DECORATIVE GRILLE AND INTEGRAL DISCONNECT.
3. PROVIDE WITH NEMA POWER EFFICIENT MOTOR, MOTOR W/ 40°C, MOTOR CLASS B OR GREATER, STANDARD DRIVES, NEMA 3R SWITCH, L10 STANDARD LIFE BEARINGS, PERMALOCK HOUSING, WHEEL BACKWARD INCLINED, UL LISTED POWER VENTILATORS, EXTENDED LUBE LINES, ONLET/INLET CONNECTION SLIP FIT, AND WEATHERHOOD.
4. PROVIDE WITH MIXING BOX, AND VARIABLE FREQUENCY DRIVE FACTORY INSTALLED ON FAN PLENUM, ISOLATION DAMPER, AND BACNET CONTROLLER.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

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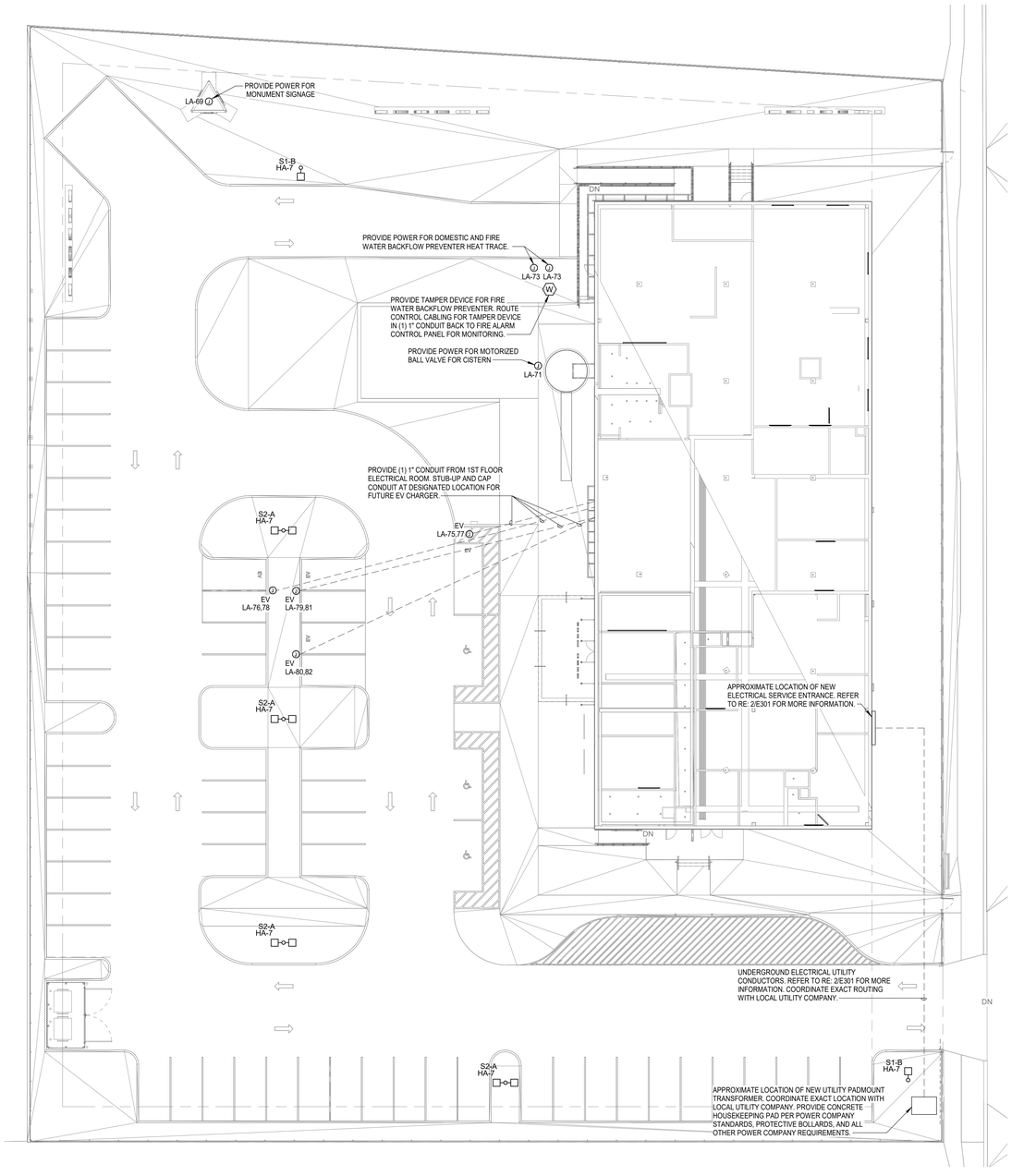
WDG Project No: 2024002

SHEET NAME
MECHANICAL SCHEDULES

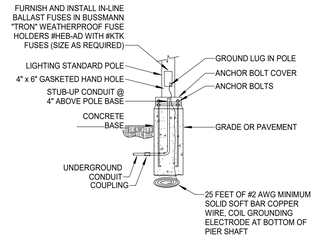
SHEET NO. M401



N

1 ELECTRICAL SITE PLAN

Scale: 1/16" = 1'-0"



2 METAL POLE W/ CONCRETE ANCHOR BASE ELEC REQS

Scale: NTS

WILLARD DESIGN GROUP
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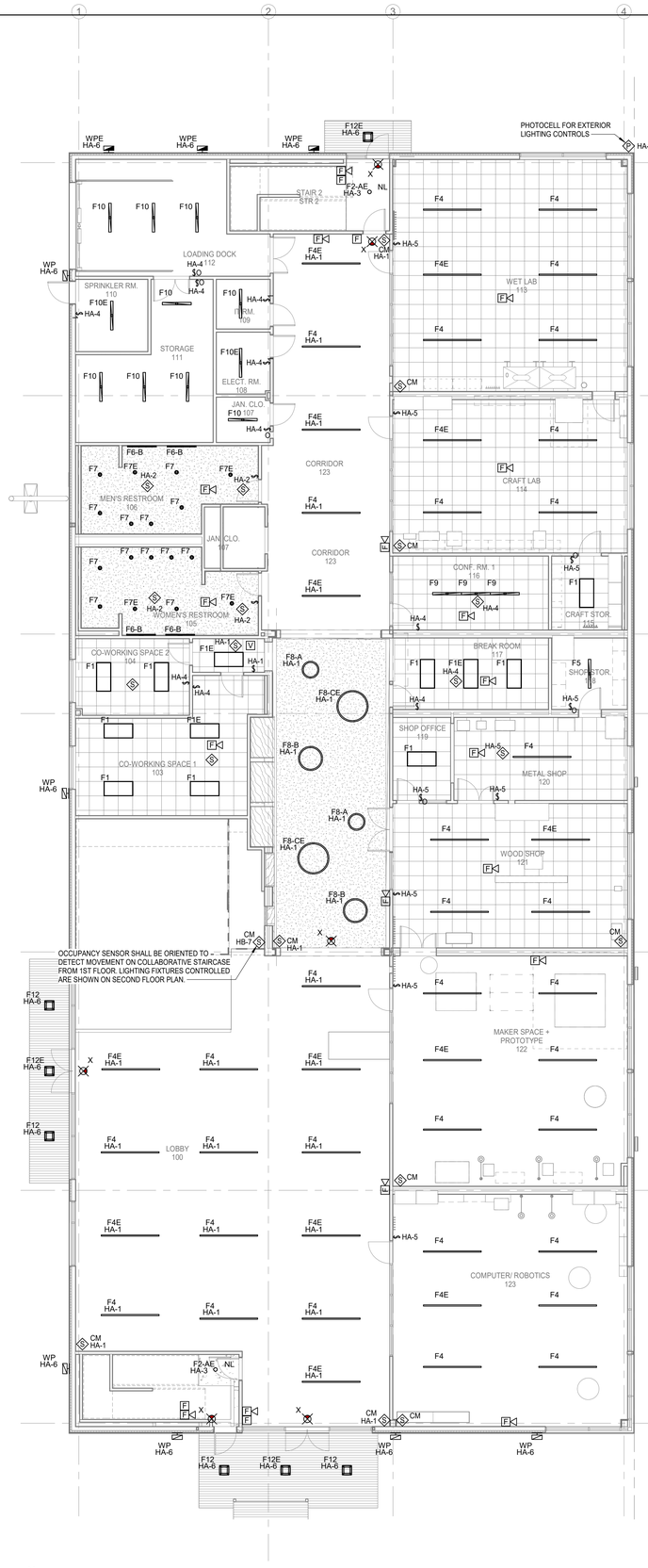
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME

ELECTRICAL SITE PLAN

SHEET NO. E100



N

1 **FIRST FLOOR LIGHTING PLAN**
Scale: 1/8" = 1'-0"

N

2 **SECOND FLOOR LIGHTING PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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REVISIONS

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01/15/2026

WDG Project No: 2024002

SHEET NAME
LIGHTING PLAN

SHEET NO.
E201

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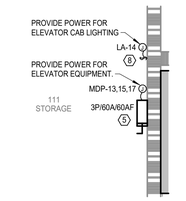
Project No: 2550-00645

ELECTRICAL KEYED NOTES

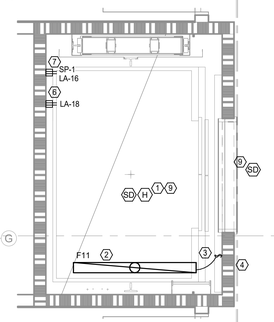
KEYED NOTE	Description
1	PROVIDE POWER FOR PLUGMOLD STRIP MOUNTED ABOVE COUNTER. COORDINATE EXACT MOUNTING LOCATION PRIOR TO ROUGH-IN. PLUGMOLD SHALL BE LEGRAND 2000 SERIES WITH (1) RECEPTACLE PER EVERY 12". COORDINATE FINAL LENGTH AND FINISH OF PLUGMOLD WITH ARCHITECT PRIOR TO ROUGH-IN.
2	PROVIDE POWER FOR AUTOMATIC SINK CONTROLS. COORDINATE EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
3	PROVIDE POWER FOR HAAS MINI CNC. COORDINATE EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
4	APPROXIMATE LOCATION OF 3D PRINTING STATION. 3D PRINTERS SHALL BE POWERED BY (3) CORD REELS ABOVE STATION.
5	PROVIDE POWER FOR EMCO E350 MILL. COORDINATE EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
6	APPROXIMATE LOCATION OF EPILOG FUSION PRO 32 LASER CUTTER. COORDINATE EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
7	PROVIDE POWER FOR WOOD LATHE. COORDINATE FINAL LOCATION PRIOR TO ROUGH-IN.
8	PROVIDE POWER FOR CNC LATHE. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
9	DUPLEX RECEPTACLES ABOVE WORK STATIONS SHALL BE CEILING MOUNTED TO POWER CORD REELS FOR SPACE. CORD REELS SHALL BE HUBBELL HBLC4012TT OR APPROVED EQUAL.

ELEVATOR KEYED NOTES

KEYED NOTE	Description
1	COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT WITH ELEVATOR MANUFACTURERS SHOP DRAWINGS FOR CLEARANCES AND PREFERRED LOCATIONS.
2	PROVIDE TYPE 'F11' FIXTURE WITH WIREGUARD ACCESSORY IN THE ELEVATOR PIT.
3	PROVIDE (2) SWITCHES FOR PIT AND HOISTWAY LIGHTS. ONE SWITCH SHALL BE LOCATED AT LEVEL 2 AND THE OTHER NEAR THE ELEVATOR PIT.
4	TELEPHONE FOR CAB COMMUNICATION. PROVIDE CAT3 6C TELEPHONE CABLE TO TELEPHONE DEMARCATION POINT.
5	PROVIDE ELEVATOR CONTROL MODULE WITH LOCKABLE FUSED SWITCH UNIT WITH SHUNT TRIP, CONTROL POINTS FOR HEAT AND SMOKE DETECTION, CONTROL POWER TRANSFORMER, FIRE ALARM INTERFACE, TEST SWITCH, PILOT LIGHT, AND INTERLOCK FOR ELEVATOR RECALL. BUSSMAN OR APPROVED EQUIVALENT.
6	PROVIDE RECEPTACLE IN PIT AND AT TOP LEVEL OF ELEVATOR HOISTWAY.
7	PROVIDE RECEPTACLE FOR SUMP PUMP.
8	PROVIDE 30A/1P/15AF/N1 DISCONNECT SWITCH FOR DISCONNECTING MEANS FOR ELEVATOR CAB LIGHTING.
9	PROVIDE HEAT DETECTOR ADJACENT TO EACH SPRINKLER HEAD IN THE HOISTWAY. PROVIDE SMOKE DETECTOR AT THE TOP OF THE HOISTWAY AND IN THE ELEVATOR LOBBIES ON EACH LEVEL. INTERFACE THE SMOKE DETECTORS WITH THE ELEVATOR CONTROLLER TO INITIATE ELEVATOR RECALL FUNCTION. INTERFACE HEAT DETECTORS WITH THE SHUNT TRIP DEVICE IN THE ELEVATOR DISCONNECT SWITCH FOR REMOVAL OF POWER UPON HEAT DETECTOR SETPOINT.



4 **ENLARGED ELEVATOR EQUIPMENT PLAN**
Scale: 1/2" = 1'-0"



3 **ENLARGED ELEVATOR PLAN**
Scale: 1/2" = 1'-0"

1 **FIRST FLOOR ELECTRICAL PLAN**
Scale: 1/8" = 1'-0"

2 **SECOND FLOOR ELECTRICAL PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
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REVISIONS

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01/15/2026

WDG Project No: 2024002

SHEET NAME
ELECTRICAL FLOOR PLANS

SHEET NO.
E211

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ELECTRICAL CONNECTION KEYED NOTES

KEYED NOTE	Description
1	PROVIDE (5) #12 WIRE FOR POWER AND CONTROL CABLING TO ASSOCIATED EXTERIOR UNIT.
2	INTERLOCK EXHAUST FAN WITH LOCAL LIGHTING CIRCUIT SUCH THAT EXHAUST FAN IS ENERGIZED WHEN LIGHTS ARE TURNED ON.

1 **FIRST FLOOR ELECTRICAL CONNECTIONS PLAN**
Scale: 1/8" = 1'-0"

2 **SECOND FLOOR ELECTRICAL CONNECTIONS PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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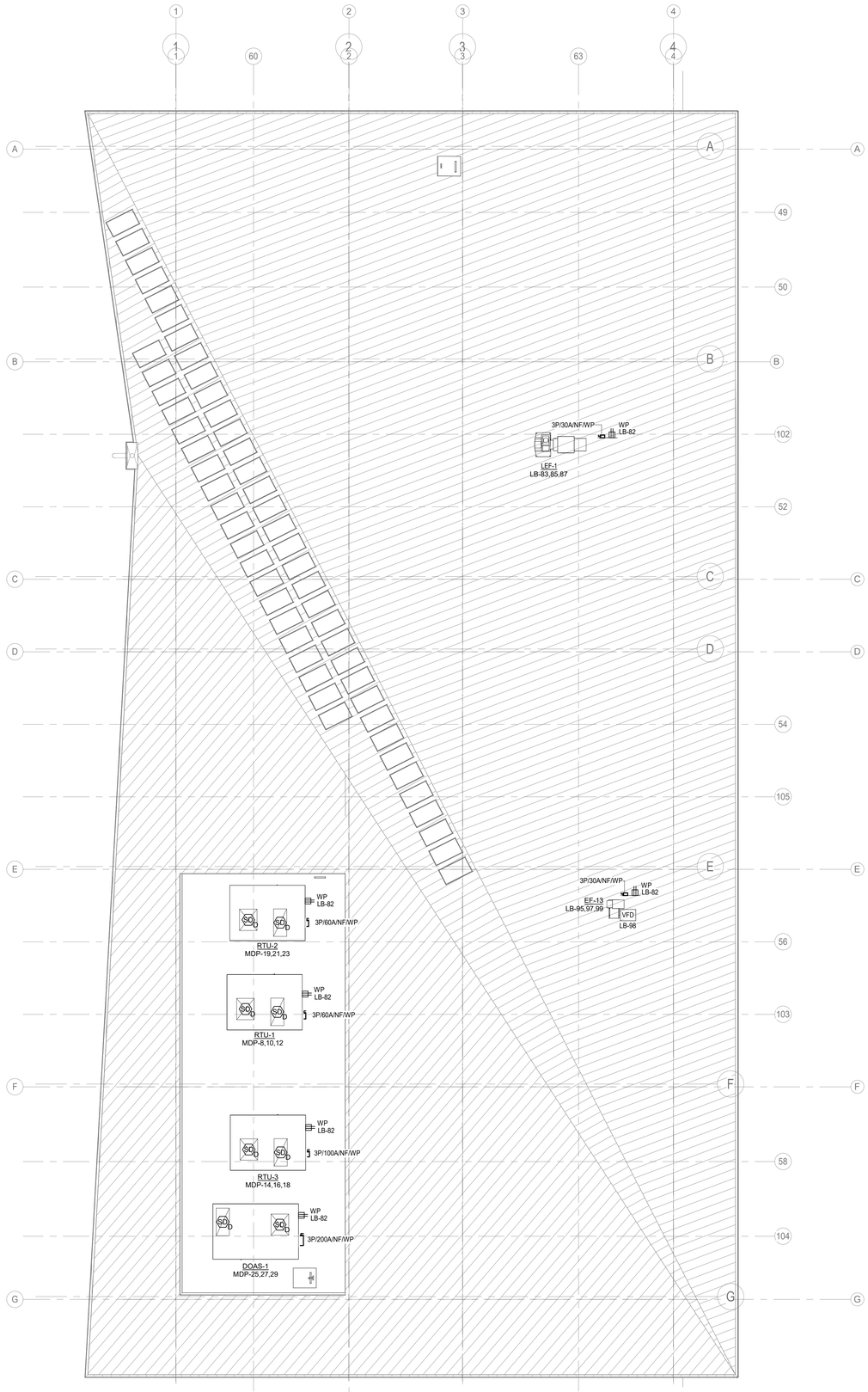
WDG Project No: 2024002

SHEET NAME
ELECTRICAL CONNECTION FLOOR PLANS

SHEET NO.
E212



N

1 **ELECTRICAL ROOF PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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DRAWING ISSUE

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REVISIONS

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01/15/2026

WDG Project No: 2024002

SHEET NAME
ELECTRICAL ROOF PLAN

SHEET NO.
E221

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Registration: 0005857
Project No: 2550-00645

Branch Panel: HA

Location: ELECT. RM. 108 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 22,000
Supply From: MDP | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 150A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	1ST FLOOR GENERAL LIGHTING	#12	20 1	2.6 / 0.4			1 20	#12	RESTROOM LIGHTING	2	
	3	STAIRCASE LIGHTING	#12	20 1		0.4 / 0.9		1 20	#12	1ST FLOOR LIGHTING	4	
	5	LAB LIGHTING	#12	20 1			3.4 / 0.6	1 20	#12	EXTERIOR LIGHTING	6	
	7	SITE LIGHTING	#12	20 1	0.6 / 8.9			1 45	#8	VAV-01	8	
	9	VAV-02	#10	25 1		5.0 / 0.5		1 15	#12	VAV-03	10	
	11	VAV-04	#12	15 1			1.2 / 0.9	1 15	#12	VAV-05	12	
	13	VAV-06	#12	15 1	1.7 / 1.0			1 15	#12	VAV-07	14	
	15	VAV-08	#12	15 1		1.1 / 3.0		1 15	#12	VAV-09	16	
	17						2.6 / 7.3				18	
	19	BOOSTER PUMP	#12	20 3	2.6 / 7.3			3 40	#8	WOOD SHOP DUST COLLECTOR	20	
	21					2.6 / 7.3					22	
	23						4.8 / 0.4				24	
	25	METAL SHOP DUST COLLECTOR	#12	25 3	4.8 / 0.4			3 20	#12	JP-1	26	
	27					4.8 / 0.4					28	
	29						0.5 / 0.5	1 20	#12	VAV-29	30	
	31	D-1	#12	20 3	0.5 / 0.5			1 20	#12	VAV-30	32	
	33					0.5 / 0.5		1 20	#12	VAV-31	34	
	35	VAV-32	#12	20 1			0.5 / 0.5	1 20	#12	VAV-33	36	
	37	VAV-34	#12	20 1	0.5 / 0.5			1 20	#12	VAV-35	38	
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
--	43	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	44	--
--	45	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	46	--
--	47	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	48	--
--	49	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	50	--
--	51	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	52	--
--	53	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	54	--
			Total Load:		32.4 kVA	27.1 kVA	23.2 kVA					
			Total Amps:		119 A	100 A	84 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	26.8 kVA	100.00%	26.8 kVA		
Lighting	8.9 kVA	125.00%	11.1 kVA	**Total Conn. Load:**	82.7 kVA
Miscellaneous	47.0 kVA	100.00%	47.0 kVA	**Total Est. Demand:**	84.9 kVA
				Total Conn. Current:	99 A
				Total Est. Demand Current:	102 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: HB

Location: ELECT. RM. 206 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 22,000
Supply From: MDP | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 225A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1				27.7 / 0.5			1 20	#12	RESTROOM LIGHTING	2	
	3	T-LB	1-I	125 3		26.8 / 1.8		1 20	#12	2ND FLOOR LIGHTING	4	
	5						21.9 / 3.1	1 15	#12	VAV-11	6	
	7	2ND FLOOR GENERAL LIGHTING	#12	20 1	1.9 / 1.0			1 15	#12	VAV-13	8	
	9	2ND FLOOR LIGHTING	#12	20 1		3.7 / 2.0		1 15	#12	VAV-15	10	
	11	VAV-10	#12	15 1			2.0 / 1.9	1 15	#12	VAV-17	12	
	13	VAV-12	#12	15 1	3.2 / 2.5			1 15	#12	VAV-19	14	
	15	VAV-14	#12	15 1		1.3 / 3.1		1 15	#12	VAV-21	16	
	17	VAV-16	#12	15 1			1.9 / 1.7	1 15	#12	VAV-23	18	
	19	VAV-18	#12	20 1	3.5 / 1.8			1 15	#12	VAV-25	20	
	21	VAV-20	#12	15 1		2.4 / 7.5		1 35	#8	VAV-27	22	
	23	VAV-22	#12	15 1			2.3 / 0.0	1 --	--	SPACE	24	--
	25	VAV-24	#12	15 1	2.5 / 0.0			1 --	--	SPACE	26	--
	27	VAV-26	#10	30 1		6.3 / 0.0		1 --	--	SPACE	28	--
	29	VAV-28	#8	40 1			8.0 / 0.0	1 --	--	SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
			Total Load:		44.6 kVA	54.9 kVA	42.8 kVA					
			Total Amps:		162 A	199 A	155 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	23.1 kVA	100.00%	23.1 kVA		
HVAC	5.5 kVA	100.00%	5.5 kVA	**Total Conn. Load:**	142.4 kVA
Heating	58.0 kVA	100.00%	58.0 kVA	**Total Est. Demand:**	131.1 kVA
Lighting	7.9 kVA	125.00%	9.9 kVA	**Total Conn. Current:**	171 A
Miscellaneous	11.4 kVA	100.00%	11.4 kVA	**Total Est. Demand Current:**	158 A
Receptacles	36.5 kVA	63.68%	23.3 kVA		

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER

I-LINE PANEL: MDP

Location: ELECT. RM. 108 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 22,000
Supply From: | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 1000A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1				93.2 / 44.6						2	
	3	T-LA	1-L	350 3		76.0 / 54.9		3 225	1-L	HB	4	
	5						73.3 / 42.8				6	
	7				32.4 / 12.5						8	
	9	HA	1-L	200 3		27.1 / 12.5		3 50	#8	RTU-1	10	
	11						23.2 / 12.5				12	
	13				5.8 / 15.0						14	
	15	ELEVATOR	#6	60 3		5.8 / 15.0		3 70	#4	RTU-3	16	
	17						5.8 / 15.0				18	
	19				13.6 / 12.0						20	
	21	RTU-2	#6	60 3		13.6 / 12.0		2 70	#4	EWH-1	22	
	23						13.6 / 18.0				24	
	25				27.7 / 18.0			3 100	#3	AC-1	26	
	27	DOAS-1	#2	110 3		27.7 / 18.0					28	
	29						27.7 / 0.0				30	
--	31	SPACE	--	-- 2	0.0 / 0.0			3 30	--	SPD	32	--
	33					0.0 / 0.0					34	
			Total Load:		274.7 kVA	262.5 kVA	231.8 kVA					
			Total Amps:		1009 A	965 A	837 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	33.5 kVA	100.00%	33.5 kVA		
HVAC	247.0 kVA	100.00%	247.0 kVA	**Total Conn. Load:**	768.9 kVA
Heating	86.3 kVA	100.00%	86.3 kVA	**Total Est. Demand:**	719.2 kVA
Kitchen Equipment	7.5 kVA	70.00%	5.3 kVA	**Total Conn. Current:**	925 A
Lighting	16.8 kVA	125.00%	21.0 kVA	**Total Est. Demand Current:**	865 A
Miscellaneous	264.6 kVA	100.00%	264.6 kVA		
Receptacles	113.3 kVA	54.41%	61.6 kVA		

Notes:
DISTRIBUTION PANEL 'MDP' SHALL HAVE AN ADDITIONAL 18" OF SPARE CAPACITY.

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
1-L - REFER TO RISER DIAGRAM FOR CONDUCTOR SIZE

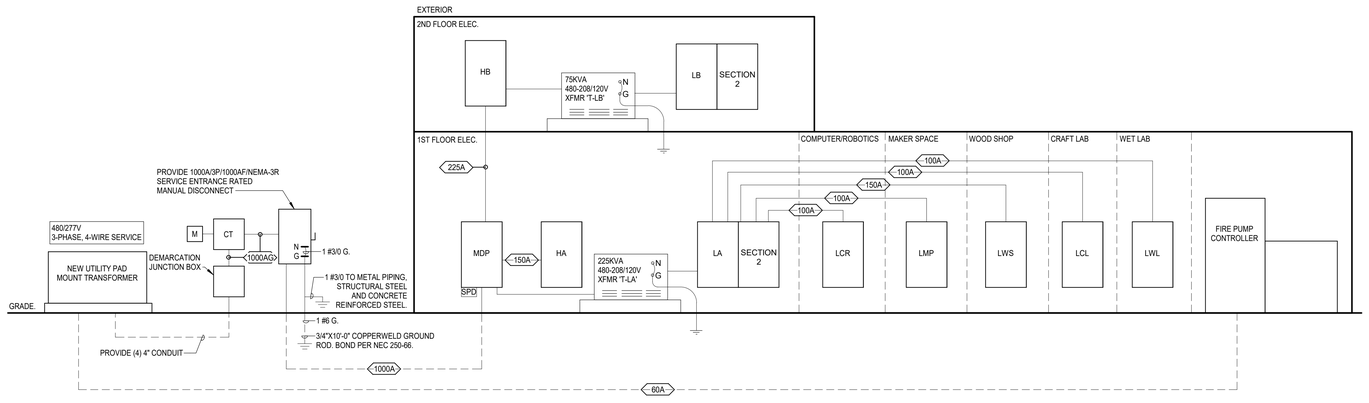
TRANSFORMER SCHEDULE

PRIMARY (480V 3PH 3W +GND)			SECONDARY (120/208V 3PH 4W +GND)		
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER	GROUNDING ELECTRODE CONDUCTOR
75KVA	3#2, 1-1/4"C, 1#6G	3P-125A	4#250KCMIL, 3"C, 1#2G	3P-250A	#2
225KVA	3#500KCMIL, 3"C, 1#2G	3P-350A	(3) SETS: 4#300KCMIL, 3"C, 1#2/0G	3P-800A	#2/0

FEEDER SCHEDULE

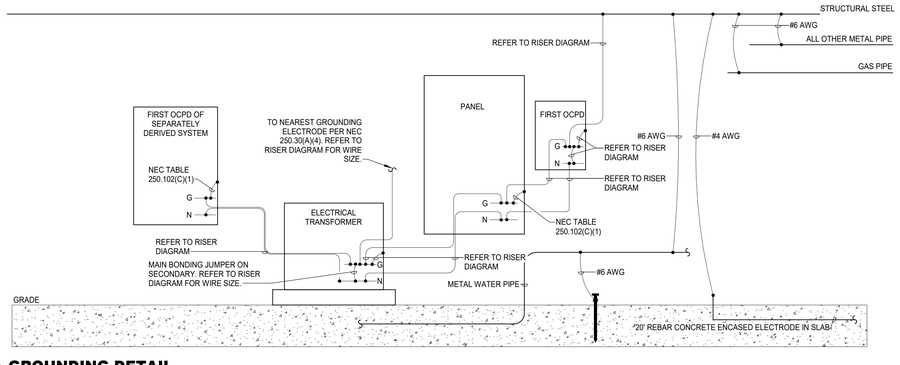
AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
60A	1	(4) #6	N/A	3"C
100A	1	(4) #3	#8	1-1/4"C
150A	1	(4) #1/0	#6	2"C
225A	1	(4) #4/0	#4	2-1/2"C
1000A	3	(4) #400KCMIL	#2/0	3"C
1000AG	3	(4) #400KCMIL	#3/0	3"C

1 CONDUIT SIZE AND QUANTITIES ARE BASED ON 3-PHASE 4-WIRE SYSTEMS. CONDUIT SIZE IS PERMITTED TO BE REDUCED BY THE CONTRACTOR AS PREMITTED BY THE NEC FOR THE REDUCED NUMBER OF CONDUCTORS THAT ARE TYPICAL FOR EQUIPMENT THAT IS SINGLE PHASE OR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL CONDUCTOR.
2 CONDUCTOR SIZES BASED ON NEC TABLE 310.16 - COPPER 75°.
3 GROUND SIZES BASED ON NEC TABLE 250.122 – COPPER, UNLESS NOTED OTHERWISE. FEEDER TAGS WITH 'SE' REFERS TO SERVICE ENTRANCE CONDUCTORS AND GROUND SIZES BASED ON NEC TABLE 250.66 – COPPER
4 CONDUIT FILL BASED ON NEC ANNEX C.



2 ELECTRICAL RISER DIAGRAM

Scale: NTS



1 GROUNDING DETAIL

Scale: NTS

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

STATE OF LOUISIANA
JOHN PALERMO
License No. 44340
PROFESSIONAL ENGINEER
01/15/2026

Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
ELECTRICAL DETAILS

SHEET NO.
E301

Branch Panel: LA

Location: ELECT. RM. 108 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: T-LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 600A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker	Wire		Circuit Description	CKT	Note
	1					3.7 / 12.7							2	
	3	LCR	1-L	100	3		3.7 / 9.5		3	100	1-L	LMS	4	
	5							2.2 / 12.4					6	
	7					20.2 / 12.0							8	
	9	LWS	1-L	150	3		16.0 / 9.8		3	100	1-L	LCL	10	
	11							16.2 / 9.6					12	
	13					4.6 / 0.5			1	20	#12	ELEVATOR CAB LIGHTING	14	
	15	LWL	1-L	100	3		4.0 / 0.2		1	20	#12	SP-1	16	
	17							0.7 / 0.2	1	20	#12	ELEVATOR RECEPT	18	
	19	RECEPT CONF. RM. 1 115	#12	20	1	1.3 / 0.7			1	20	#12	RECEPT CO-WORKING SPACE 1 103	20	
	21	RECEPT CO-WORKING SPACE 1 103	#12	20	1		0.7 / 0.7		1	20	#12	RECEPT CO-WORKING SPACE 2 103	22	
	23	GENERAL RECEPT	#12	20	1			0.7 / 0.4	1	20	#12	RESTROOM RECEPT	24	
	25	HAND DRYER	#12	20	1	1.5 / 1.5			1	20	#12	HAND DRYER	26	
G	27	WATER FOUNTAIN	#12	20	1		0.2 / 0.9		1	20	#12	1ST FLOOR FLOORBOX	28	
	29	GENERAL RECEPT	#12	20	1			0.7 / 1.1	1	20	#12	GENERAL RECEPT	30	
	31	HEATED CABINET	#12	20	1	0.2 / 0.2			1	20	#12	REACH-IN FREEZER	32	
	33	REACH-IN REFRIGERATOR	#12	20	1		0.2 / 0.9		1	20	#12	GENERAL KITCHEN RECEPT	34	
	35	HEATED CABINET	#12	20	1			0.2 / 3.3					36	
	37	CU-3	#8	35	2	3.3 / 3.3			2	35	#8	CU-1	38	
	39						3.3 / 2.6						40	
	41	CU-5	#8	40	2			2.6 / 2.6	2	40	#8	CU-6	42	
	43					2.6 / 1.0							44	
	45	DMSCU-3	#12	15	2		1.0 / 1.0		2	15	#12	DMSCU-1	46	
	47							1.0 / 2.4					48	
	49	DMSCU-2B	#10	30	2	2.4 / 2.4			2	30	#10	DMSCU-2A	50	
	51						2.4 / 0.5		1	20	#12	FLEX SPACE RECEPT	52	
	53	DMSCU-4	#12	20	2			1.6 / 0.5	1	20	#12	COLLABORATIVE STAIR RECEPT	54	
	55					1.6 / 2.2			2	25	#10	FCU-1 - FCU-6B	56	
	57	FACP	#12	20	1		0.5 / 2.2						58	
	59	SERVICE RECEPT	#12	20	1			0.4 / 0.1	1	20	#12	EF-1	60	
	61	EF-2	#12	20	1	0.1 / 0.1			1	20	#12	EF-3	62	
	63	EF-4	#10	25	1		0.2 / 0.1		1	20	#12	EF-5	64	
	65	AUTOMATIC FAUCET	#12	20	1			1.0 / 1.0	1	20	#12	AUTOMATIC FAUCET	66	
	67	AUTOMATIC FAUCET	#12	20	1	1.0 / 1.0			1	20	#12	AUTOMATIC FAUCET	68	
	69	MONUMENT SIGN	#12	20	1		0.5 / 0.7		1	20	#12	EXTERIOR RECEPT	70	
	71	CISTERN MOTORIZED BALL VALVE	#12	20	1			0.5 / 3.4	2	40	#8	OVEN	72	G
	73	HEAT TRACE	#12	20	1	1.0 / 3.4							74	
	75	EV CHARGER	#8	40	2		3.3 / 3.3		2	40	#8	EV CHARGER	76	
	77							3.3 / 3.3					78	
	79	EV CHARGER	#8	40	2	3.3 / 3.3			2	40	#8	EV CHARGER	80	
	81						3.3 / 3.3						82	
	83	EUH-1	#12	20	2			0.8 / 0.3	1	20	#12	EV-1 - EV-3	84	
	85					0.8 / 1.3			1	20	#12	SMOKE DAMPERS	86	
	87	RECEPT IT RM. 109	#12	20	1		0.4 / 0.4		1	20	#12	RECEPT IT RM. 109	88	
	89	RECEPT IT RM. 109	#12	20	1			0.4 / 0.5	1	20	#12	ACP & IDP PANELS	90	
--	91	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	92	--
--	93	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	94	--
--	95	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	96	--
--	97	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	98	--
--	99	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	100	--
--	101	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	102	--
--	103	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	104	--
--	105	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	106	--
--	107	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	108	--
			Total Load:			93.2 kVA	76.0 kVA	73.3 kVA						
			Total Amps:			780 A	637 A	611 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	10.4 kVA	100.00%	10.4 kVA		
HVAC	35.3 kVA	100.00%	35.3 kVA	**Total Conn. Load:**	242.5 kVA
Heating	1.5 kVA	100.00%	1.5 kVA	**Total Est. Demand:**	206.8 kVA
Kitchen Equipment	7.5 kVA	70.00%	5.3 kVA	**Total Conn. Current:**	673 A
Miscellaneous	111.0 kVA	100.00%	111.0 kVA	**Total Est. Demand Current:**	574 A
Receptacles	76.8 kVA	56.51%	43.4 kVA		

Notes:
PANEL 'LA' IS A 2-SECTION PANEL WITH 54 SPACES IN EACH SECTION.

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: LB

Location: ELECT. RM. 206 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: T-LB | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 225A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker	Wire		Circuit Description	CKT	Note
	1	FLOORBOX MULTI-PURPOSE RM 204	#12	20	1	0.7 / 0.5			1	20	#12	FLOORBOX MULTI-PURPOSE RM 204	2	
	3	FLOORBOX MULTI-PURPOSE RM 204	#12	20	1		0.5 / 0.5		1	20	#12	FLOORBOX MULTI-PURPOSE RM 204	4	
	5	RECEPT MULTI-PURPOSE RM 204	#12	20	1			0.7 / 0.4	1	20	#12	RESTROOM RECEPT	6	
	7	HAND DRYER	#12	20	1	1.5 / 1.5			1	20	#12	HAND DRYER	8	
G	9	WATER FOUNTAIN	#12	20	1		0.2 / 0.4		1	20	#12	RECEPT PRIVATE GROUP POD 210	10	
	11	RECEPT PRIVATE GROUP POD 210	#12	20	1			0.4 / 0.7	1	20	#12	RECEPT PRIVATE GROUP POD 210	12	
	13	WIREMOLD	#12	20	1	1.3 / 1.3			1	20	#12	WIREMOLD	14	
	15	WIREMOLD	#12	20	1		1.3 / 1.3		1	20	#12	WIREMOLD	16	
	17	RECEPT BREAK RM 211	#12	20	1			0.7 / 0.2	1	20	#12	REFRIGERATOR	18	G
	19	DISHWASHER	#12	20	1	0.2 / 0.4			1	20	#12	RECEPT BREAK RM 211	20	
	21	RECEPT CONF. RM 3 212	#12	20	1		1.1 / 0.4		1	20	#12	FLOORBOX CONF. RM 3 212	22	
	23	GENERAL RECEPT	#12	20	1			1.1 / 0.7	1	20	#12	GENERAL RECEPT	24	
	25	GENERAL RECEPT	#12	20	1	1.1 / 0.5			1	20	#12	RECEPT CO-WORKING SPACE 3 227	26	
	27	RECEPT CO-WORKING SPACE 3 227	#12	20	1		0.4 / 0.5		1	20	#12	RECEPT CO-WORKING SPACE 4 226	28	
	29	RECEPT CO-WORKING SPACE 4 226	#12	20	1			0.4 / 0.4	1	20	#12	RECEPT CO-WORKING SPACE 5 225	30	
	31	RECEPT CO-WORKING SPACE 5 225	#12	20	1	0.5 / 1.1			1	20	#12	OFFICE RECEPT	32	
	33	OFFICE RECEPT	#12	20	1		1.1 / 1.1		1	20	#12	RECEPT OFFICE 218	34	
	35	RECEPT OFFICE 218	#12	20	1			0.4 / 0.4	1	20	#12	RESTROOM RECEPT	36	
	37	OPEN OFFICE RECEPT	#12	20	1	0.7 / 0.9			1	20	#12	OPEN OFFICE RECEPT	38	
	39	RECEPT CONF. RM. 2 223	#12	20	1		1.1 / 0.5		1	20	#12	SYSTEMS FURNITURE	40	F
	41	AUTOMATIC FAUCET	#12	20	1			0.5 / 0.5	1	20	#12	SYSTEMS FURNITURE	42	F
	43	AUTOMATIC FAUCET	#12	20	1	0.5 / 0.5			1	20	#12	SYSTEMS FURNITURE	44	F
	45	AUTOMATIC FAUCET	#12	20	1		0.5 / 0.5		1	20	#12	SYSTEMS FURNITURE	46	F
	47	AUTOMATIC FAUCET	#12	20	1			0.5 / 0.2	1	20	#12	DIGITAL MEDIA FLOORBOX	48	
	49	DIGITAL MEDIA FLOORBOX	#12	20	1	0.2 / 0.2			1	20	#12	DIGITAL MEDIA FLOORBOX	50	
	51	DIGITAL MEDIA FLOORBOX	#12	20	1		0.2 / 0.2		1	20	#12	DIGITAL MEDIA FLOORBOX	52	
	53	DIGITAL MEDIA FLOORBOX	#12	20	1			0.2 / 0.2	1	20	#12	DIGITAL MEDIA FLOORBOX	54	
	55	DIGITAL MEDIA FLOORBOX	#12	20	1	0.2 / 0.2			1	20	#12	DIGITAL MEDIA FLOORBOX	56	
	57	DIGITAL MEDIA FLOORBOX	#12	20	1		0.2 / 0.2		1	20	#12	DIGITAL MEDIA FLOORBOX	58	
	59	DIGITAL MEDIA FLOORBOX	#12	20	1			0.2 / 0.2	1	20	#12	DIGITAL MEDIA FLOORBOX	60	
	61	DIGITAL MEDIA FLOORBOX	#12	20	1	0.2 / 0.2			1	20	#12	DIGITAL MEDIA FLOORBOX	62	
	63	DIGITAL MEDIA FLOORBOX	#12	20	1		0.2 / 0.2		1	20	#12	DIGITAL MEDIA FLOORBOX	64	
	65	DIGITAL MEDIA FLOORBOX	#12	20	1			0.2 / 0.2	1	20	#12	DIGITAL MEDIA FLOORBOX	66	
	67	DIGITAL MEDIA FLOORBOX	#12	20	1	0.2 / 0.2			1	20	#12	DIGITAL MEDIA FLOORBOX	68	
	69	DIGITAL MEDIA FLOORBOX	#12	20	1		0.2 / 0.2		1	20	#12	DIGITAL MEDIA FLOORBOX	70	
	71	DIGITAL MEDIA FLOORBOX	#12	20	1			0.2 / 0.2	1	20	#12	DIGITAL MEDIA FLOORBOX	72	
	73	DIGITAL MEDIA FLOORBOX	#12	20	1	0.2 / 0.2			1	20	#12	DIGITAL MEDIA FLOORBOX	74	
	75	DIGITAL MEDIA FLOORBOX	#12	20	1		0.2 / 0.2		1	20	#12	DIGITAL MEDIA FLOORBOX	76	
	77	DIGITAL MEDIA FLOORBOX	#12	20	1			0.2 / 0.9	1	20	#12	RECEPT DIGITAL MEDIA / GAMING 208	78	
	79	RECEPT DIGITAL MEDIA / GAMING 208	#12	20	1	1.1 / 0.7			1	20	#12	RECEPT DIGITAL MEDIA / GAMING 208	80	
	81	RECEPT DIGITAL MEDIA / GAMING 208	#12	20	1		0.7 / 1.1		1	20	#12	ROOFTOP RECEPT	82	
	83							1.6 / 3.8					84	
	85	LEF-1	#12	20	3	1.6 / 3.8			3	35	#8	CU-2	86	
	87						1.6 / 3.8						88	
	89							3.8 / 0.2	1	20	#12	PROJECTOR	90	
	91	CU-4	#8	35	3	3.8 / 0.2			1	20	#12	PROJECTOR	92	
	93						3.8 / 0.5		1	20	#12	MOTORIZED PROJECTOR SCREEN	94	
	95							0.2 / 0.5	1	20	#12	MOTORIZED PROJECTOR SCREEN	96	
	97	EF-13	#12	20	3	0.2 / 0.5			1	20	#12	VFD	98	
	99						0.2 / 1.5		1	20	#12	SMOKE DAMPERS	100	
	101	SMOKE DAMPERS	#12	20	1			0.9 / 0.4	1	20	#12	RECEPT IT RM. 207	102	
	103	RECEPT IT RM. 207	#12	20	1	0.4 / 0.4			1	20	#12	RECEPT IT RM. 207	104	
	105	ACP & IDP PANELS	#12	20	1		0.5 / 0.0		1	--	--	SPACE	106	--
--	107	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	108	--
--	109	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	110	--
--	111	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	112	--
--	113	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	114	--
--	115	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	116	--
--	117	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	118	--
--	119	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	120	--
--	121	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	122	--
--	123	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	124	--
--	125	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	126	--
--	127	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	128	--
--	129	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	130	--
--	131	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	132	--
--	133	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	134	--
--	135	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	136	--
--	137	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	138	--
--	139	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	140	--
--	141	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	142	--
--	143	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	144	--
			Total Load:			27.7 kVA	26.8 kVA	21.9 kVA						
			Total Amps:			237 A	230 A	183 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	23.1 kVA	100.00%	23.1 kVA		
HVAC	5.5 kVA	100.00%	5.5 kVA	**Total Conn. Load:**	76.5 kVA
Miscellaneous	11.4 kVA	100.00%	11.4 kVA	**Total Est. Demand:**	63.2 kVA
Receptacles	36.5 kVA	63.68%	23.3 kVA	**Total Conn. Current:**	212 A
				Total Est. Demand Current:	175 A

Notes:
PANEL 'LB' IS A 2-SECTION PANEL WITH 72 SPACES IN EACH SECTION.

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
F - PROVIDE TIE-BARS OR MULTI-POLE BREAKERS FOR CIRCUITS WHICH ARE SHARING A NEUTRAL

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

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License No. 44343
PROFESSIONAL ENGINEER
01/15/2026

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Baton Rouge, LA 70809

Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
ELECTRICAL PANEL SCHEDULES

SHEET NO.
E302

Branch Panel: LMP

Location: LOBBY 100 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: RECESSED | **Wires:** 4 | **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	CORD REEL	2	
	3	CORD REEL	#12	20 1		0.2 / 0.2		1 20	#12	CORD REEL	4	
	5	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	6	
	7	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	CORD REEL	8	
	9	CORD REEL	#12	20 1		0.2 / 0.2		1 20	#12	CORD REEL	10	
	11	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	12	
	13	CORD REEL	#12	20 1	0.2 / 1.7			1 20	#12	WIREMOLD	14	
	15	WIREMOLD	#12	20 1		1.7 / 1.7		1 20	#12	WIREMOLD	16	
	17	LASER CUTTER	#12	20 1			1.7 / 4.5	2 50	#8	EMCO E350 MILL	18	
	19				3.8 / 4.5						20	
	21	MINI CNC	#8	40 3		3.8 / 1.7		1 20	#12	WIREMOLD	22	
	23						3.8 / 1.7	1 20	#12	WIREMOLD	24	
	25	WIREMOLD	#12	20 1	1.7 / 0.2			1 20	#12	GENERAL RECEPT	26	
--	27	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
		Total Load:			12.7 kVA	9.5 kVA	12.4 kVA					
		Total Amps:			109 A	79 A	107 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	20.3 kVA	100.00%	20.3 kVA		
Receptacles	14.3 kVA	84.97%	12.2 kVA	**Total Conn. Load:**	34.6 kVA
				Total Est. Demand:	32.4 kVA
				Total Conn. Current:	96 A
				Total Est. Demand Current:	90 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: LCL

Location: CRAFT LAB 114 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: RECESSED | **Wires:** 4 | **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	WIREMOLD	#12	20 1	2.1 / 2.1			1 20	#12	WIREMOLD	2	
	3	WIREMOLD	#12	20 1		1.1 / 1.1		1 20	#12	WIREMOLD	4	
	5	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	6	
	7	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	RECEPT	8	
	9	RECEPT	#12	20 1		0.2 / 0.2		1 20	#12	RECEPT	10	
	11						7.3 / 2.0	1 20	#12	WIREMOLD	12	
	13	KILN	#4	80 3	7.3 / 0.2			1 20	#12	GENERAL RECEPT	14	
	15					7.3 / 0.0		1 --	--	SPACE	16	--
--	17	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	18	--
--	19	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	20	--
--	21	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	22	--
--	23	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	24	--
--	25	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	26	--
--	27	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
		Total Load:			12.0 kVA	9.8 kVA	9.6 kVA					
		Total Amps:			100 A	82 A	80 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	21.9 kVA	100.00%	21.9 kVA		
Receptacles	9.5 kVA	100.00%	9.5 kVA	**Total Conn. Load:**	31.4 kVA
				Total Est. Demand:	31.4 kVA
				Total Conn. Current:	87 A
				Total Est. Demand Current:	87 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: LWL

Location: WET LAB 113 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: RECESSED | **Wires:** 4 | **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	CORD REEL	2	
	3	CORD REEL	#12	20 1		0.2 / 0.2		1 20	#12	CORD REEL	4	
	5	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	6	
	7	WIREMOLD	#12	20 1	1.7 / 1.7			1 20	#12	WIREMOLD	8	
	9	WIREMOLD	#12	20 1		1.7 / 2.0		1 20	#12	WIREMOLD	10	G
	11	FUME EXHAUST HOOD	#12	20 1			0.2 / 0.2	1 20	#12	FUME EXHAUST HOOD	12	
	13	GENERAL RECEPT	#12	20 1	0.7 / 0.2			1 20	#12	GLASS WASHER	14	
--	15	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	16	--
--	17	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	18	--
--	19	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	20	--
--	21	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	22	--
--	23	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	24	--
--	25	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	26	--
--	27	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
		Total Load:			4.6 kVA	4.0 kVA	0.7 kVA					
		Total Amps:			43 A	38 A	6 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacles	9.4 kVA	100.00%	9.4 kVA		
				Total Conn. Load:	9.4 kVA
				Total Est. Demand:	9.4 kVA
				Total Conn. Current:	26 A
				Total Est. Demand Current:	26 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

Branch Panel: LCR

Location: COMPUTER/ ROBOTICS 123 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: RECESSED | **Wires:** 4 | **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	CORD REEL	2	
	3	CORD REEL	#12	20 1		0.2 / 0.2		1 20	#12	CORD REEL	4	
	5	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	6	
	7	WIREMOLD	#12	20 1	1.7 / 1.7			1 20	#12	WIREMOLD	8	
	9	WIREMOLD	#12	20 1		1.7 / 1.7		1 20	#12	WIREMOLD	10	
	11	WIREMOLD	#12	20 1			1.7 / 0.2	1 20	#12	TV RECEPT	12	
--	13	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	14	--
--	15	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	16	--
--	17	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	18	--
--	19	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	20	--
--	21	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	22	--
--	23	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	24	--
--	25	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	26	--
--	27	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
		Total Load:			3.7 kVA	3.7 kVA	2.2 kVA					
		Total Amps:			33 A	33 A	19 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacles	9.6 kVA	100.00%	9.6 kVA		
				Total Conn. Load:	9.6 kVA
				Total Est. Demand:	9.6 kVA
				Total Conn. Current:	27 A
				Total Est. Demand Current:	27 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: LWS

Location: WOOD SHOP 121 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: RECESSED | **Wires:** 4 | **Mains:** 150A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	CORD REEL	2	
	3	CORD REEL	#12	20 1		0.2 / 0.2		1 20	#12	CORD REEL	4	
	5	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	6	
	7	WIREMOLD	#12	20 1	2.2 / 1.6			1 20	#12	WIREMOLD	8	
	9	WIREMOLD	#12	20 1		1.6 / 1.6		1 20	#12	WIREMOLD	10	
	11	WIREMOLD	#12	20 1			1.5 / 1.5	1 20	#12	WIREMOLD	12	
	13	WOOD LATHE	#12	20 2	1.7 / 1.7			2 20	#12	EQUIPMENT ZONE POWER	14	
	15					1.7 / 1.7					16	
	17	EQUIPMENT ZONE POWER	#12	20 2			1.7 / 1.9				18	
	19				1.7 / 1.9			3 20	#12	EQUIPMENT ZONE POWER	20	
	21					1.9 / 1.9					22	
	23	MISCELLANEOUS EQUIPMENT	#12	20 3			1.9 / 1.9				24	
	25				1.9 / 1.9			3 20	#12	CNC LATHE	26	
	27	WIREMOLD	#12	20 1		1.6 / 1.9					28	
	29	WIREMOLD	#12	20 1			1.6 / 1.6	1 20	#12	WIREMOLD	30	
	31	WIREMOLD	#12	20 1	1.6 / 2.2			1 20	#12	WIREMOLD	32	
	33	BLAST CABINET	#12	20 1		1.3 / 0.5		1 20	#12	GENERAL RECEPT	34	
	35	OFFICE RECEPT	#12	20 1			0.5 / 1.7	2 20	#12	METAL SHOP POWER	36	
--	37	SPACE	--	-- 1	0.0 / 1.7						38	
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
		Total Load:			20.2 kVA	16.0 kVA	16.2 kVA					
		Total Amps:			168 A	133 A	135 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	30.3 kVA	100.00%	30.3 kVA		
Receptacles	22.0 kVA	72.70%	16.0 kVA	**Total Conn. Load:**	52.3 kVA
				Total Est. Demand:	46.3 kVA
				Total Conn. Current:	145 A
				Total Est. Demand Current:	129 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

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WDG Project No: 2024002

SHEET NAME
ELECTRICAL PANEL SCHEDULES

SHEET NO.
E303

LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER: MANUFACTURER	CATALOG NUMBER: MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
F1	HEW	BP-2-4-LS	RECESSED	5,000L LED	3500 K	80	277 V	40 W	2'X4' RECESSED LED FLAT PANEL.
F1E	HEW	BP-2-4-LS	RECESSED	5,000L LED	3500 K	80	277 V	40 W	2'X4' RECESSED LED FLAT PANEL. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F2-AE	HEW	4CR	SURFACE	2,500L LED	3500 K	80	277 V	30 W	4" LED SURFACE MOUNTED CYLINDER DOWNLIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F3	SPECTRUM	PRDDH16LX	PENDANT	10,500L LED	3500 K	80	277 V	80 W	PENDANT MOUNTED LED LOW/HIGH BAY FIXTURE.
F3E	SPECTRUM	PRDDH16LX	PENDANT	10,500L LED	3500 K	80	277 V	80 W	PENDANT MOUNTED LED LOW/HIGH BAY FIXTURE. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F4	HEW	MX2UD	SUSPENDED	800L/FT LED	3500 K	80	277 V	120 W	8' SUSPENDED LED LINEAR STRIP LIGHT
F4E	HEW	MX2UD	SUSPENDED	800L/FT LED	3500 K	80	277 V	120 W	8' SUSPENDED LED LINEAR STRIP LIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F5	LUX	EOS 2.0-P-DI	PENDANT	750L/FT LED	3500 K	80	277 V	48 W	4' DECORATIVE LED PATTERN LINEAR. COORDINATE FINAL FIXTURE PATTERN WITH ARCHITECTURAL RCP.
F5E	LUX	EOS 2.0-P-DI	PENDANT	750L/FT LED	3500 K	80	277 V	48 W	4' DECORATIVE LED PATTERN LINEAR. COORDINATE FINAL FIXTURE PATTERN WITH ARCHITECTURAL RCP. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F6-A	HEW	LLM-2	WALL	1000L/FT LED	3500 K	80	277 V	14 W	2' LED VANITY FIXTURE.
F6-B	HEW	LLM-4	WALL	1000L/FT LED	3500 K	80	277 V	28 W	4' LED VANITY FIXTURE.
F7	HEW	4FDR	RECESSED	2,000L LED	3500 K	80	277 V	20 W	4" LED RECESSED DOWNLIGHT.
F7E	HEW	4FDR	RECESSED	2,000L LED	3500 K	80	277 V	20 W	4" LED RECESSED DOWNLIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F8-A	CORONET	LOOP-18	SUSPENDED	2,000L LED	3500 K	80	277 V	23 W	18" SUSPENDED LED HALO LIGHT.
F8-B	CORONET	LOOP-3	SUSPENDED	3,500L LED	3500 K	80	277 V	45 W	3' SUSPENDED LED HALO LIGHT.
F8-C	CORONET	LOOP-4	SUSPENDED	4,500L LED	3500 K	80	277 V	54 W	4' SUSPENDED LED HALO LIGHT.
F8-CE	CORONET	LOOP-4	SUSPENDED	4,500L LED	3500 K	80	277 V	54 W	4' SUSPENDED LED HALO LIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F9	HEW	MX4UD	SUSPENDED	800L/FT LED	3500 K	80	277 V	60 W	4' SUSPENDED LED LINEAR STRIP
F10	HEW	FS-4	SURFACE	5,000L LED	3500 K	80	277 V	32 W	4' LED STRIP LIGHT
F10E	HEW	FS-4	SURFACE	5,000L LED	3500 K	80	277 V	32 W	4' LED STRIP LIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F11	HEW	96-4	SURFACE	4,000L LED	3500 K	80	277 V	31 W	4' LED VAPORTITE FIXTURE.
F12	BEACON	LSQ2-40	SURFACE	4,500L LED	4000 K	70	277 V	40 W	SQUARE LED CANOPY LIGHT.
F12E	BEACON	LSQ2-40	SURFACE	4,500L LED	4000 K	70	277 V	40 W	SQUARE LED CANOPY LIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
S1-B	LSI	VALM-18L-3M-40K	POLE MOUNT 1 @ 90	14,000L LED	4000 K	80	277 V	104 W	LED POLE LIGHT TYPE III AREA LUMINAIRE. MOUNT FIXTURE AT 30'-0" AG. PROVIDE FIXTURE WITH INTEGRAL OCCUPANCY SENSOR.
S2-A	LSI	VALM-18L-5QN-40K	POLE MOUNT 1 @ 180	18,000L LED	4000 K	80	277 V	104 W	LED POLE LIGHT TYPE V AREA LUMINAIRE. MOUNT FIXTURE AT 30'-0" AG. PROVIDE FIXTURE WITH INTEGRALL OCCUPANCY SENSOR.
WP	LSI	WPSLL-04L-40	WALL	4,000L LED	4000 K	80	277 V	30 W	LED WALL PACK. MOUNT FIXTURE AT +8'-0" AFF
WPE	LSI	WPSLL-04L-40	WALL	4,000L LED	4000 K	80	277 V	30 W	LED WALL PACK. PROVIDE WITH INTEGRAL BATTERY BACKUP. MOUNT FIXTURE AT +8'-0" AFF
X	HEW	EVE-U-R-W-E-I	SURFACE	LED	4000 K	80	277 V	11 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.

1	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "E" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AE, C2E, FE") AND/OR A HALF SHADED REGION SHALL BE THE BASE FIXTURE TYPE EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
2	ALL REQUIRED TEST SWITCHES FOR THE BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE.
3	REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
4	UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER SHALL SELECT ALL FINISHES, COLORS, AND TRIMS.
5	ALL LED FIXTURE BOARDS AND DRIVERS SHALL BE OF THE LATEST GENERATION, BASED UPON THE INDIVIDUAL MANUFACTURER'S STATED LITERATURE. IF A "GEN 5" IS AVAILABLE, "GEN 4" FIXTURES ARE NOT ACCEPTABLE.
6	EXIT SIGNS AND EMERGENCY BATTERY BACK-UPS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AS REQUIRED TO MAINTAIN THE BATTERIES AT FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED.
7	LIGHTING FIXTURE MANUFACTURERS OTHER THAN THOSE LISTED IN THE LIGHTING FIXTURE SCHEDULE AND DESIRING TO BID THIS PROJECT SHALL REQUEST PRIOR APPROVAL OF THE FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEETS.
8	FOR PRIOR APPROVALS AND SUBMITTALS THAT DEVIATE FROM NOMINAL WATTAGE AND/OR DELIVERED LUMENS, IT SHALL BE UP THE ENGINEER'S SOLE DISCRETION TO APPROVE OR DECLINE THESE FIXTURES BASED ON ANY AND ALL FACTORS INCLUDING BUT NOT LIMITED TO INTENDED LIGHTING LEVELS FOR EACH SPACE AND IMPACT ON THE OVERALL ELECTRICAL POWER SYSTEM.
9	ALL LIGHTING SPECIFIED SHALL BE 4000K INTERIOR UNLESS NOTED OTHERWISE.
10	THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.
11	WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED. OTHERWISE PROVIDE AS INDICATED IN SCHEDULE.
12	FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.
13	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "X" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AX, C2X, FX") SHALL BE THE BASE FIXTURE TYPE CONNECTED TO EMERGENCY LIGHTING INVERTER SYSTEM. REFER TO DETAIL 3 SHEET 10.42 FOR ADDITIONAL INFORMATION.
14	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "A" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE T YPE "A1A, C2A, FA") SHALL BE THE BASE FIXTURE TYPE EXCEPT SUITABLE FOR GYPSUM CEILING INSTALLATION AND EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
15	ALL EXTERIOR LIGHT FIXTURES RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET LOCATION. WHERE SPECIFICALLY STATED IN THE LIGHTING FIXTURE SCHEDULE AS “DAMP LOCATION” FIXTURES AND PROTECTED BY THE BUILDING STRUCTURE FROM FALLING OR WIND DRIVEN RAIN OR SNOW, THEY MAY BE EITHER DAMP OR WET LOCATION LISTED.
16	ALL EXTERIOR LIGHT FIXTURES NOT RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET FROM ABOVE LOCATION.

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
	LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	RECEPTACLES AND OUTLETS
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	POWER POLE
	125/250 VOLT, 1 PHASE, 3-WIRE, AMPACITY SHALL MATCH CIRCUIT BREAKERS SIZE. RECEPTACLE CONFIGURATIONS AND WIRING SHALL INCLUDE A NEUTRAL. PROVIDE 3-PHASE RECEPTACLES WHERE SHOWN FED FROM 3-POLE CIRCUITS.
	CEILING MOUNTED RECEPTACLE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	4-GANG FLUSH FLOOR DUPLEX RECEPTACLE OUTLET AND (4) DATA PORTS. REFER TO DIV-27 DRAWINGS FOR DATA REQUIREMENTS TO FLOORBOX. BOX SHALL BE CONCEALED SERVICE IF INSTALLED ON GROUND LEVEL, OR A POKE-THRU BOX WHEN INSTALLED ON A LEVEL ABOVE GRADE.
	FLUSH FLOOR DOUBLE DUPLEX RECEPTACLE OUTLET. BOX SHALL BE CONCEALED SERVICE IF INSTALLED ON GROUND LEVEL, OR A POKE-THRU BOX WHEN INSTALLED ON A LEVEL ABOVE GRADE.
	MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS. SIZE TO MATCH DEVICE QUANTITIES. BOX SHALL BE CONCEALED SERVICE IF INSTALLED ON GROUND LEVEL, OR A POKE-THRU BOX WHEN INSTALLED ON A LEVEL ABOVE GRADE.
H	HAND DRYER.
U	PROVIDE DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS.

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
	MISCELLANEOUS EQUIPMENT
SD	SMOKE DAMPER
	MOTOR CONTROLLERS AND EQUIPMENT
VFD	VARIABLE FREQUENCY DRIVE
	DISCONNECT SWITCH AS REQUIRED
$ M	MANUAL MOTOR SWITCH AS REQUIRED
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26
	ELECTRICAL EQUIPMENT
	ELECTRICAL DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
	CIRCUITING
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
	SUBSCRIPTS AND ABBREVIATIONS
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
SF	PROVIDE FURNITURE FEED OUTLET FOR SYSTEMS FURNITURE
TV	INDICATES WALL MOUNTED TELEVISION. COORDINATE MOUNTING HEIGHT PRIOR TO ROUGH-IN.
NL	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
1-L	REFER TO ONE-LINE DIAGRAM
⊢	INDICATES WALL MOUNTED DEVICE
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

GENERAL NOTES:

-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM.

LIGHTING CONTROL SCHEDULE

SYMBOL	DESCRIPTION AND PROGRAMMING (DISREGARD ITEMS NOT SHOWN ON PLANS)
	SWITCHES AND CONTROLS
$	WALL SWITCH WITH MANUAL ON/OFF OVERRIDE AND MANUAL UP/DOWN DIMMING CONTROL. INTERFACE WITH CEILING-MOUNTED OCCUPANCY OR VACANCY SENSORS WITHIN THE SAME ZONE OF CONTROL.
$ 1	WALL SWITCH FOR MANUAL ON/OFF CONTROL, NO DIMMING FUNCTIONALITY REQUIRED.
$ O	WALL-MOUNTED OCCUPANCY SENSOR WITH MANUAL ON/OFF OVERRIDE AND MANUAL UP/DOWN DIMMING CONTROL. PROGRAM FOR AUTOMATIC ON TO 50% POWER UPON SPACE OCCUPANCY, AUTOMATIC OFF WITHIN 15 MINUTES OF SPACE VACANCY.
S	CEILING OR SURFACE MOUNTED OCCUPANCY SENSOR. PROGRAM FOR AUTOMATIC ON TO 50% POWER UPON SPACE OCCUPANCY, AUTOMATIC OFF WITHIN 15 MINUTES OF SPACE VACANCY. INTERFACE WITH WALL-MOUNTED SWITCHES IN THE SPACE FOR MANUAL CONTROL.
S C	CEILING OR SURFACE MOUNTED OCCUPANCY SENSOR. PROGRAM FOR 100% POWER UPON SPACE OCCUPANCY, DIM TO 50% WITHIN 15 MINUTES OF SPACE VACANCY. INTERFACE WITH WALL-MOUNTED SWITCHES IN THE SPACE FOR MANUAL CONTROL.
D	CEILING OR SURFACE MOUNTED DAYLIGHT SENSOR, REFER TO LIGHTING PLANS FOR DAYLIGHT ZONES. THE DAYLIGHT SENSOR SHALL LIMIT THE POWER LEVELS OF LIGHT FIXTURES WITHIN THE ASSOCIATED PRIMARY OR SECONDARY DAYLIGHT ZONE BASED ON THE SENSOR CALIBRATION. LAYER WITH OTHER MANUAL AND AUTOMATIC LIGHTING CONTROLS SHOWN.
P	BUILDING-MOUNTED PHOTOCELL, INTERFACE WITH THE ASSOCIATED TIMECLOCK OR LIGHTING CONTROL PANEL FOR AUTOMATIC ON/OFF OF EXTERIOR LIGHT FIXTURES WHEN SUFFICIENT DAYLIGHT IS PRESENT.
TC	TIMECLOCK FOR CONTROL OF ZONES AND CIRCUITS AS INDICATED ON LIGHTING PLANS AND PANEL SCHEDULES. THE TIMECLOCK SHALL BE CAPABLE OF BEING PROGRAMMED FOR SEVEN DAYS AND SEVEN DIFFERENT DAY TYPES PER WEEK, SHALL INCORPORATE AN AUTOMATIC HOLIDAY SETBACK FEATURE, AND SHALL HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS UPON POWER INTERRUPTION.
$ T	WALL SWITCH FOR MANUAL ON/OFF OVERRIDE OF THE INDICATED TIMECLOCK ZONE
	SUBSCRIPTS AND ABBREVIATIONS
WP	THE INDICATED SWITCH SHALL BE WEATHERPROOF
CM	THE INDICATED SENSOR SHALL BE CORNER MOUNTED FACING OUTWARD TO SPACE.
HB	THE INDICATED SENSOR SHALL BE RATED FOR HIGH-BAY APPLICATIONS
NL	LIGHT FIXTURE SHALL BE DESIGNATED AS A NIGHT-LIGHT AND HARD-WIRED AHEAD OF ANY LIGHTING CONTROLS SHOWN IN THE SPACE

LIGHTING PLAN NOTES:

1. ALL LIGHTING CONTROL DEVICES AND PROGRAMMING SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE ENERGY CODE ADOPTED BY THE LOCAL JURISDICTION.
2. CIRCUIT LIGHT FIXTURES TO THE CIRCUIT SHOWN ADJACENT TO LIGHTING CONTROLS.
3. IT IS INTENDED THAT LIGHTING CONTROLS SHOWN IN EACH SPACE ARE TO CONTROL LIGHT FIXTURES WITHIN THAT SPACE. WHERE IT IS INTENDED THAT THERE ARE MULTIPLE CONTROL ZONES IN A SPACE, OR WHERE CONTROL ZONES MAY NOT BE AS OBVIOUS DUE TO THE SIZE OR SHAPE OF THE SPACE, REFER TO LOWERCASE CONTROL ZONE LETTERS SUCH AS 'a', ARCS, OR VERBIAGE FOR FURTHER CLARIFICATION.
4. WHEN MULTIPLE OCCUPANCY OR VACANCY SENSORS ARE SHOWN IN A SINGLE SPACE OR CONTROL ZONE, IT IS INTENDED THAT THEY ARE INTERFACED TOGETHER SUCH THAT IF ANY INDIVIDUAL CONTROL DEVICE PROGRAMMING CONDITIONS ARE MET IT SHALL ACTIVATE OR DEACTIVATE THE ENTIRE CONTROL ZONE OR SPACE.
5. ALL LIGHTING CONTROLS WITH DIMMING FUNCTIONALITY FURNISHED SHALL BE COMPATIBLE WITH THE DIMMING TECHNOLOGY OF THE ASSOCIATED LIGHT FIXTURES. PROVIDE ADDITIONAL CABLING FOR 0-10V DIMMING LIGHT FIXTURES AS REQUIRED. IN THE EVENT THAT THERE ARE FIXTURES WITH DIFFERENT DIMMING TECHNOLOGIES ON THE SAME CONTROL ZONE, PROVIDE ADDITIONAL CONTROL ZONES AS REQUIRED FOR EACH DIMMING TYPE.
6. IN ANY APPLICATION WHERE DIMMING IS REQUIRED, THE CONTROLS SHALL BE CAPABLE OF ALLOWING THE USER TO DIM ON THE FULL RANGE OF MAXIMUM OUTPUT TO THE MINIMUM OUTPUT RATING OF THE FIXTURE DRIVER (0.1%, 1%, ETC.)
7. PRIOR TO PASSING FINAL INSPECTION, AN APPROVED AGENCY SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE AS REQUIRED IN CONFORMANCE WITH THE ENERGY CODE ADOPTED BY THE LOCAL JURISDICTION.
8. PROVIDE THE BUILDING OWNER AND OPERATIONS STAFF A MINIMUM OF 8 HOURS OF LIGHTING CONTROL SYSTEM OPERATION AND PROGRAMMING TRAINING PRIOR TO PROJECT COMPLETION.

LIGHTING CONTROL PANEL REQUIREMENTS (APPLIES TO ALL SHEETS):

1. PROVIDE A LIGHTING CONTROL PANEL FOR ALL LIGHTING CONTROL ZONES AS IDENTIFIED ON PLANS AND AS DESIGNATED IN PANEL SCHEDULES.
2. LIGHTING CONTROL PANEL CHARACTERISTICS:
   A. THE LIGHTING CONTROL PANEL SHALL BE PROVIDED WITH 0-10V DIMMING, LINE VOLTAGE DIMMING, AND OTHER DIMMING TECHNOLOGY CAPABILITIES TO BE COMPATIBLE WITH ALL LIGHT FIXTURES SERVED BY THE LIGHTING CONTROL PANEL. IT IS INTENDED THAT ALL LIGHT FIXTURES SERVED BY THE LIGHTING CONTROL PANEL ARE DIMMABLE AND CAN BE PROGRAMMED TO MEET IECC 2021 REQUIREMENTS. PROVIDE 0-10V LEADS AS REQUIRED FROM THE LIGHTING CONTROL PANEL TO 0-10V DIMMING FIXTURES AS REQUIRED.
   B. PROVIDE WITH PHOTOCELL TO AUTOMATICALLY SHUT OFF EXTERIOR SITE LIGHTING ZONES WHEN SUFFICIENT DAYLIGHT IS PRESENT.
   C. PROVIDE WITH MANUAL OVERRIDE CAPABILITIES FOR EACH CONTROL ZONE SERVED BY THE LIGHTING CONTROL PANEL.
   D. THE LIGHTING CONTROL PANEL SHALL BE CAPABLE OF BEING PROGRAMMED FOR 7 DAYS AND CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK. IT SHALL INCORPORATE AN AUTOMATIC HOLIDAY SETBACK FEATURE, AND SHALL HAVE PROGRAM BACKUP CAPADILITIES THAT PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS UPON POWER INTERRUPTION.
   E. THE LIGHTING CONTROL PANEL SHALL BE CAPABLE OF COMMUNICATING OVER THE NETWORK AND COORDINATING WITH A REMOTE LIGHTING CONTROL PANEL FOR OFF-SITE REMOTE LIGHTING CONTROL PANEL FOR OFF-SITE REMOTE CONTROL AND MONITORING.

FIRE ALARM SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
FACP	FIRE ALARM SYSTEM CONTROL PANEL
VEP	FIRE ALARM SYSTEM VOICE EVACUATION PANEL
ANNC	FIRE ALARM SYSTEM ANNUNCIATOR PANEL
F	FIRE ALARM SYSTEM MANUAL PULL STATION
F	FIRE ALARM SYSTEM AUDIBLE/VISUAL NOTIFICATION APPLIANCE, AUDIBLE SIGNAL SHALL BE PROVIDED TO MATCH THE REQUIRE FIRE ALARM OR VOICE EVACUATION SYSTEM
V	FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE
LF	FIRE ALARM SYSTEM LOW FREQUENCY SOUNDER
W	WATERFLOW SWITCH
SP	FIRE SPRINKLER SUPERVISORY/TAMPER SWITCH
H	DOOR HOLD DEVICE, RELEASE BY FIRE ALARM SYSTEM ACTIVATION, PROVIDE 120V POWER AND FIRE ALARM RELAY MODULES AS REQUIRED BY THE SPECIFIED DEVICE
I	120V SMOKE ALARM, PROVIDE MULTIPLE-STATION SMOKE ALARMS WHEN MULTIPLE ARE DEPICTED IN A SINGLE DWELLING UNIT, MULTIPLE-STATION SMOKE ALARMS SHALL BE INTERCONNECTED FOR SIMULTANEOUS ACTIVATION
I CO	120V SMOKE AND CARBON MONOXIDE COMBINATION ALARM, PROVIDE MULTIPLE-STATION SMOKE ALARMS WHEN MULTIPLE ARE DEPICTED IN A SINGLE DWELLING UNIT, MULTIPLE-STATION SMOKE ALARMS SHALL BE INTERCONNECTED FOR SIMULTANEOUS ACTIVATION
CO	120V CARBON MONOXIDE ALARM, PROVIDE MULTIPLE-STATION CO ALARMS WHEN MULTIPLE ARE DEPICTED IN A SINGLE DWELLING UNIT, MULTIPLE-STATION CO ALARMS SHALL BE INTERCONNECTED FOR SIMULTANEOUS ACTIVATION
SD	FIRE ALARM SYSTEM SMOKE DETECTOR
SD LF	FIRE ALARM SYSTEM SMOKE DETECTOR WITH LOW FREQUENCY SOUNDER BASE
SD D	DUCT MOUNTED SMOKE DETECTOR
H	FIRE ALARM SYSTEM HEAT DETECTOR

FIRE ALARM GENERAL NOTES:

1. THE FIRE ALARM SYSTEM FOR THIS BUILDING SHALL BE AUTOMATICALLY ACTIVATED BY THE SPRINKLER SYSTEM AND ANY SMOKE DETECTORS SHOWN, IN ADDITION TO MANUAL ACTIVATION BY PULL STATIONS.
2. THE FIRE ALARM SYSTEM FOR THIS BUILDING SHALL BE A VOICE EVACUATION SYSTEM WITH A VOICE EVACUATION PANEL AND AUDIBLE SPEAKER NOTIFICATION APPLIANCES FOR RECORDED AND LIVE EVACUATION INSTRUCTIONS.
3. PROVIDE FIRE SPRINKLER SUPERVISORY/TAMPER SWITCHES AT ALL LOCATIONS AS REQUIRED BY THE DELEGATED DESIGN SPRINKLER SYSTEM. NOT ALL OF THESE LOCATIONS ARE DEPICTED ON THE FIRE ALARM DRAWINGS.

VOICE EVACUATION FIRE DETECTION AND ALARM REQUIREMENTS:

THE DEVICE LOCATIONS AND QUANTITIES SHOWN ON THE DRAWINGS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. SEE THE PROJECT SPECIFICATIONS FOR A COMPLETE DESCRIPTION AND LOCATION OF REQUIRED NOTIFICATION AND INITIATION APPLIANCES. ADDITIONAL CODE REQUIRED DEVICES SHALL BE INCLUDED IN THE PROJECT BID AS DETERMINED BY THE CERTIFIED FIRE ALARM PLANNING SUPERINTENDENT.

FIRE ALARM DESIGN PLANS SHALL BE SUBMITTED TO AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO INSTALLATION AND THE INSTALLATION MUST BE APPROVED BEFORE THE CERTIFICATE OF OCCUPANCY MAY BE ISSUED.

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL III IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, NFPA 72, NFPA 101, IBC 2015 EDITION, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

ELECTRICAL GENERAL NOTES:
(NOTES APPLY TO ALL SHEETS)

1. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE INDICATED.
2. MOUNT ALL RECEPTACLES AT 18" ABOVE FINISHED FLOOR TO CENTER OF THE COVER PLATE UNLESS OTHERWISE INDICATED.
3. FOR OUTLETS REQUIRING GFCI PROTECTION WHERE THE RECEPTACLE IS CONCEALED SUCH AS IN THE CASE OF A WATER FOUNTAIN OR VENDING MACHINE INSTALLATION, THE CONTRACTOR SHALL PROVIDE A STANDARD RECEPTACLE WITH GFCI CIRCUIT BREAKER IN THE ASSOCIATED PANEL. BLANK FACE GFCI TEST/RESET BUTTONS ARE NOT PERMITTED UNLESS EXPLICITLY LOCATED ON THESE DRAWINGS.
4. FURNISH AND INSTALL ALL EXTERIOR RECEPTACLES WITH WEATHERPROOF COVERS. EXTERIOR RECEPTACLES SHALL BE GFCI TYPE.
5. FOR ALL EXTERIOR ELECTRICAL EQUIPMENT, FURNISH AND INSTALL WITH NEMA 3R ENCLOSURES MINIMUM. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THIS REQUIREMENT AND INFORMATION LOCATED ELSEWHERE IN THE ELECTRICAL DOCUMENTS, THE CONTRACTOR SHALL BID ACCORDING TO THE MOST STRINGENT REQUIREMENT.
6. IN KITCHENS, BREAK ROOMS AND SIMILAR SPACES, THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DOCUMENTS AND LOCATE ELECTRICAL DEVICES AT LOCATIONS AND ELEVATIONS TO BEST SERVE EACH DEDICATED APPLIANCE.
7. VERIFY DOOR SWINGS PRIOR TO INSTALLING LIGHT SWITCHES.
8. GANG ALL SWITCHES SHOWN TO BE INSTALLED AT THE SAME LOCATION UNDER A SINGLE COVER PLATE UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO EXIT SIGNS IN CORRIDORS WHERE THERE IS A CHANGE OF CEILING ELEVATION WITH 10-FEET OF THE EXIT SIGN. THE CONTRACTOR SHALL LOCATE THESE EXIT SIGNS SUCH THAT THEY ARE ON THE LOWER CEILING AND VISIBLE THROUGHOUT THE CORRIDOR SEGMENT.
10. COORDINATE WITH OTHER DISCIPLINES IN THE FIELD TO ENSURE THAT THE INTEGRITY OF FIRE RATED CONSTRUCTION IS PRESERVED WHERE PENETRATING RATED WALLS AND FLOORS.
11. THE CONTRACTOR SHALL ROUTE ALL EXPOSED CONDUIT NEATLY AND TIGHT TO SUPPORTING SURFACES. IN THE EVENT THAT THE OWNER IS NOT SATISFIED WITH WORKMANSHIP, THE CONTRACTOR SHALL MAKE CORRECTIONS AT NO ADDITIONAL COST TO THE OWNER. MC CABLE IS NOT PERMITTED IN EXPOSED AREAS.
12. FOR ALL CONDUIT RUNS SHOWN ON ELECTRICAL DRAWINGS, THE ROUTING IS APPROXIMATE. THE CONTRACTOR SHALL MAKE ROUTING ADJUSTMENTS AS REQUIRED BASED ON FIELD CONDITIONS AND COORDINATION WITH OTHER DISCIPLINES.
13. IN THE EVENT THAT THERE IS A DISCREPANCY IN THE MINIMUM CIRCUIT AMPACITY (MCA) AND/OR THE MAXIMUM OVERCURRENT PROTECTION (MOCP) BETWEEN THE DIVISION 26 AND DIVISION 22/23 SCHEDULES, THE CONTRACTOR SHALL BID ACCORDING TO THE MORE STRINGENT REQUIREMENTS.
14. MECHANICAL, PLUMBING, AND OTHER EQUIPMENT FURNISHED AND INSTALLED BY OTHER DIVISIONS IS SHOWN ON ELECTRICAL DRAWINGS FOR CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL REFER TO OTHER DISCIPLINE CONSTRUCTION DOCUMENTS FOR EXACT LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN OF THE ASSOCIATED ELECTRICAL CIRCUITS, DISCONNECTING MEANS, OUTLETS, ETC. AND ADJUST ROUTING AND LOCATIONS ACCORDINGLY.
15. LIGHT FIXTURES, ELECTRICAL OUTLETS AND DISCONNECTING MEANS LOCATED IN MECHANICAL ROOMS AND ATTIC SPACES ARE SHOWN FOR QUANTITY AND CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL LOCATE LIGHT FIXTURES TO BEST ILLUMINATE WALKING AND WORKING SURFACES, AND LOCATE OUTLETS AND DISCONNECTING MEANS SUCH THEY ARE EASILY ACCESSIBLE FOLLOWING THE INSTALLATION OF ALL DEVICES AND EQUIPMENT IN THESE SPACES.
16. ALL MECHANICAL EQUIPMENT SHALL HAVE A RECEPTACLE INSTALLED WITHIN 25-FEET. A SINGLE RECEPTACLE CAN ACCOMPLISH THIS PURPOSE FOR MULTIPLE PIECES OF EQUIPMENT. A RECEPTACLE LOCATED BELOW A LAY-IN CEILING ON THE SAME LEVEL AS A PIECE OF MECHANICAL EQUIPMENT COMPLIES WITH THIS REQUIREMENT. IN THE EVENT THAT FIELD CONDITIONS DICTATE THAT A RECEPTACLE CAN NOT MEET THIS REQUIREMENT FOR ALL OF THE INTENDED PIECES OF EQUIPMENT IN AN AREA ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL RECEPTACLES AS REQUIRED.
17. PROVIDE SYSTEM SMOKE DETECTORS IN THE SUPPLY AND RETURN DUCTS OF AIR HANDLING UNITS GREATER THAN 2000 CFM. REFER TO DIVISION 23 SCHEDULES FOR UNITS MEETING THIS REQUIREMENT.
18. FOR EACH SMOKE DAMPER OR COMBINATION SMOKE/FIRE DAMPER, PROVIDE A SYSTEM SMOKE DETECTOR AND LOCATE AS REQUIRED. WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SYSTEM SMOKE DETECTOR SHALL BE INSTALLED WITHIN 5' OF THE DAMPER AND LOCATED SUCH THAT THERE ARE NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND DAMPER. WHERE A SMOKE DAMPER IS INSTALLED WITHIN AN UNDUCTED OPENING IN A WALL, A SYSTEM SMOKE DETECTOR SHALL BE INSTALLED WITHIN 5' HORIZONTALLY OF THE DAMPER. WHERE A SMOKE DAMPER IS INSTALLED IN A CEILING, A SYSTEM SMOKE DETECTOR SHALL BE INSTALLED ON THE CEILING WITH 5' OF THE DAMPER.

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

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SHEET NAME
ELECTRICAL SCHEDULES

SHEET NO. E401

TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
'# ▼	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
V# ▽	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W ▼	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B ▽	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D# ▼	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
#'	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#': NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR '#	ACCESS CONTROL CARD READER. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS *#	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4.
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4.
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
RFID	VEHICLE RFID TAG READER.		FIELD COORDINATE RACEWAYS AND BACK BOXES	PROVIDE NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL VEHICLE ENTRY POINT

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNTED INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
S2	CEILING MOUNTED INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
S3	WALL MOUNTED INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S4	WALL MOUNTED EXTERIOR INTERCOM SPEAKER	+10' AFF UNO	CONTRACTOR PROVIDED	
# IP	IP BASED SPEAKER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C2	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
W	2-SENSOR CAMERA W: INDICATES WALLMOUNTED CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
W	1-SENSOR CAMERA W: INDICATES WALLMOUNTED CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
VRS	VIDEO RECORDING SERVER			NOTE #5
#MU	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

AUDIO/VIDEO LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP ▽	WALL MOUNTED PROJECTOR AV OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR AV OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
AV-1 ▽	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VIDEO OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VIDEO OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD ▽	INTERACTIVE VIDEO DISPLAY AUDIO/VIDEO OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP ▽	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

LOCAL SOUND SYSTEM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
LS	LOCAL SOUND SYSTEM SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
AI	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
H	HANGING MICROPHONE	CEILING MOUNT	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
SUB	SUBWOOFER	CEILING MOUNT UNO		

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
M	CEILING MOUNTED MOTION DETECTOR	CEILING		
M	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
•	FIELD COORDINATE ELEVATION
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'RR'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

INTERCOM GENERAL NOTES

1. THE FOLLOWING AREAS SHALL BE ZONED SEPARATELY:
   1)CAFETERIA - ZONE 1
   2)KITCHEN - ZONE 2
   3)GYMNASIUM - ZONE 3
   4)LIBRARY - ZONE 4
   5)ADMIN - MAIN OFFICE - ZONE 5
   6)EXTERIOR - ZONE 6
   7)CORRIDOR - ZONE PER AREA
   8)RESTROOM - ZONE WITH ASSOCIATED AREAS.
2. CONTRACTOR TO TAP ALL SPEAKERS WITHIN THE GYMNASIUM AND CAFETERIA AT 4 WATTS.
3. CONTRACTOR TO TAP ALL EXTERIOR SPEAKERS AT 7 WATTS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

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PERMIT SET

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01/15/2026	PERMIT SET

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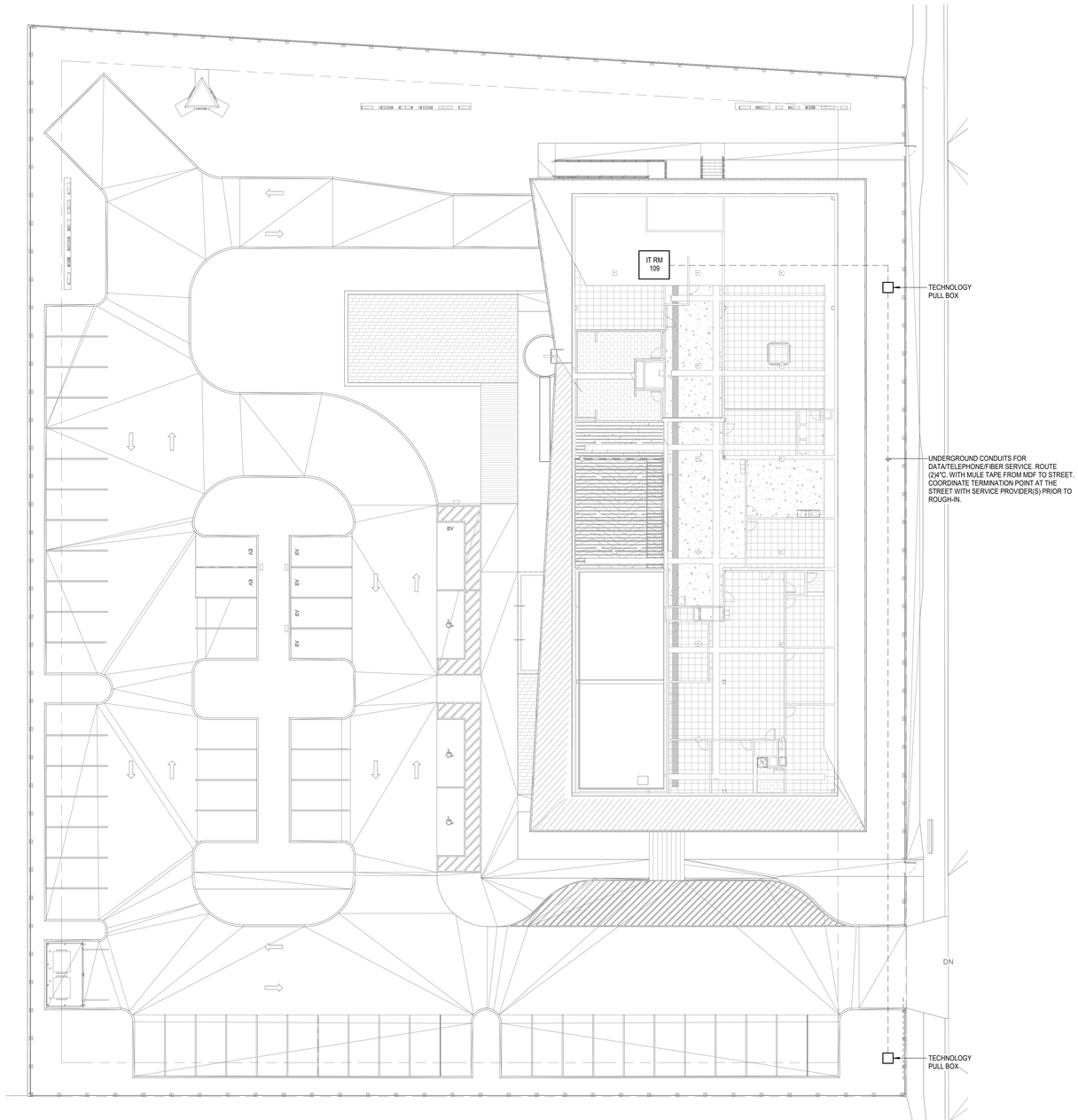
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME

TECHNOLOGY NOTES AND LEGENDS

SHEET NO. T000



N

1 **TECHNOLOGY SITE PLAN**
Scale: 1/16" = 1'-0"

TECHNOLOGY GENERAL NOTES:

1. CONTRACTOR TO SEAL BOTH ENDS OF ALL USED AND UNUSED CONDUITS
2. CONDUITS SHALL NOT EXCEED MORE THAN 180 DEGREES IN TOTAL BEND RADIUS AND/OR 250 LINEAR FEET BETWEEN PULL POINTS.
3. CONTRACTOR TO PROVIDE AND INSTALL MAXCELL FABRIC INNERDUCT PACKETS IN ALL SITE CONDUITS, EXCLUDING CONDUITS RESERVED FOR THE SERVICE PROVIDER'S USE. REFERENCE MAXCELL'S CHART AND FURNISH THE MAXIMUM SIZE AND QUANTITY RECOMMENDED BY THE MANUFACTURER. CONTRACTOR TO UTILIZE PULLING SWIVELS FOR INSTALLATION OF ALL MAXCELL INNERDUCTS.
4. CONTRACTOR SHALL PROVIDE A 20' SERVICE LOOP AT EACH PULL POINT AND A 10' SERVICE LOOP AT EACH FINAL TERMINATION END OF ALL CABLES INSTALLED.
5. CONTRACTOR TO UTILIZE INSTALLATION SWIVELS FOR INSTALLATION OF ALL FABRIC INNERDUCT AND ALL CABLE INSTALLED INSIDE FABRIC INNERDUCT.
6. ALL EXTERIOR CONDUITS SHALL BE RATED FOR OUTDOOR, ABOVE GROUND INSTALLATION AND SHALL BE WATER TIGHT. REFERENCE DIVISION 26 SPECIFICATION FOR CONDUIT REQUIREMENTS.
7. CONTRACTOR SHALL SEAL ALL BUILDING PENETRATIONS AS REQUIRED TO ENSURE ALL PENETRATIONS ARE WEATHERPROOF.
8. EXTERIOR CAMERAS TO TERMINATE INSIDE BUILDING, ABOVE CEILING, WITH CONDUIT AND BACK BOX ROUTING OUTSIDE FOR CAMERA. PROVIDE OUTDOOR RATED PATCH CABLES TO CONNECT CAMERA TO DATA OUTLET INSIDE.
9. PROVIDE SURGE PROTECTION FOR ALL EXTERIOR CAMERAS.
10. REFERENCE ELECTRICAL SITE PLAN FOR SERVICE CONDUIT ROUTING, AND ADDITIONAL INFORMATION AND COORDINATION.
11. ALL ENTRANCE CONDUITS SHALL STUB ABOVE THE FINISHED FLOOR AND STUB EVENLY AT +4" AFF. PROVIDE PROTECTIVE BUSHINGS ON ALL CONDUITS AND SEAL ALL USED AND UNUSED UPON COMPLETION OF THE PROJECT.

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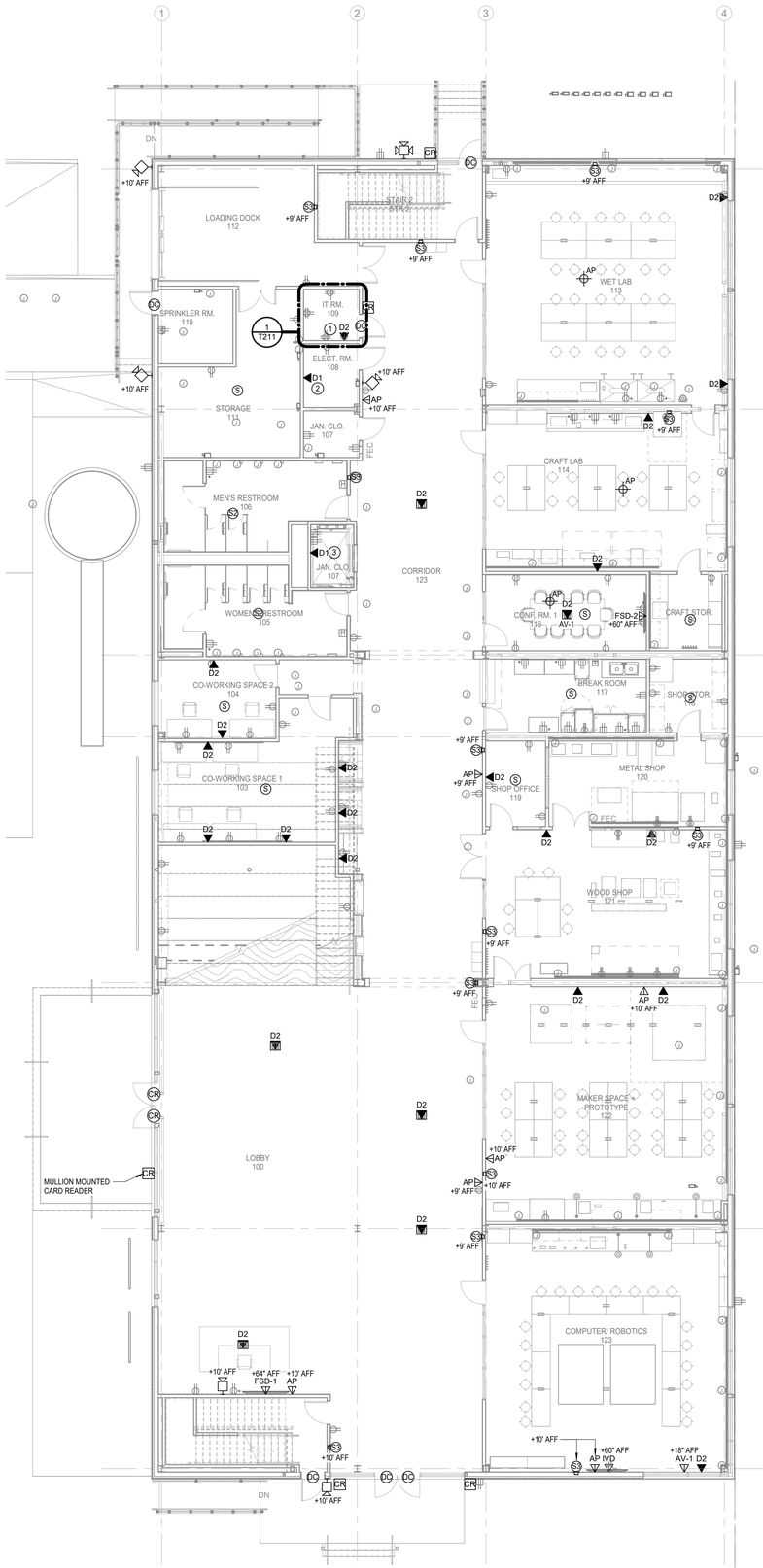
WDG Project No: 2024002

SHEET NAME
TECHNOLOGY SITE PLAN

SHEET NO.
T100



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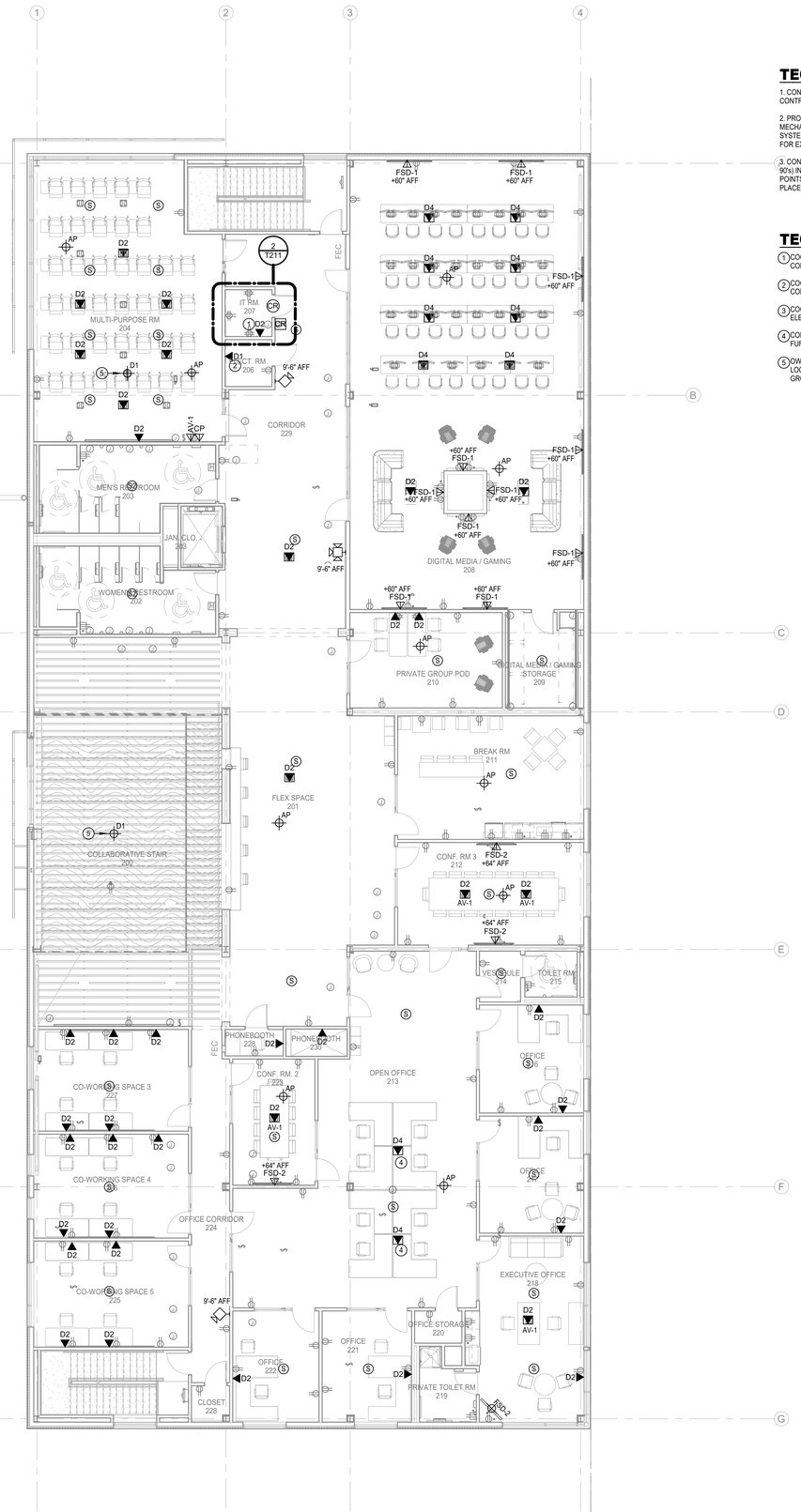
1 FIRST FLOOR TECHNOLOGY PLAN

Scale: 1/8" = 1'-0"



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2 SECOND FLOOR TECHNOLOGY PLAN

Scale: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES:

1. CONTRACTOR TO ROUTE DATA ON FIRST FLOOR TO IT RM 109. CONTRACTOR TO ROUTE DATA ON SECOND FLOOR TO IT RM 207.

2. PROVIDE ONE (1) CATEGORY 6A DATA CIRCUIT TO EACH MECHANICAL ROOM FOR THE BUILDING MANAGEMENT CONTROL SYSTEM AND MDF/ IDF ROOMS. COORDINATE WITH THE CONTRACTOR FOR EXACT LOCATION AND TERMINATION TYPE.

3. CONDUITS SHALL NOT EXCEED MORE THAN 180 DEGREES (OR 2 90's) IN TOTAL BEND RADIUS AND/OR 100 LINEAR FEET BETWEEN PULL POINTS. IF THESE CONDUITS CAN NOT BE MET, A PULLBOX MUST BE PLACED INTO THE RUN.

TECHNOLOGY KEYED NOTES:

1. COORDINATE ACCESS CONTROL PANEL DATA OUTLET WITH SECURITY CONTRACTOR.
2. COORDINATE BAS DATA OUTLET LOCATION WITH ELECTRICAL CONTRACTOR.
3. COORDINATE ELEVATOR VOICE DATA OUTLET LOCATION WITH ELEVATOR CONTRACTOR.
4. CONTRACTOR TO PROVIDE CATEGORY CABLING IN FURNITURE FEED. FURNITURE FEED BY DIV. 26.
5. OWNER PROVIDED CEILING MOUNTED PROJECTOR. VERIFY FINAL LOCATION, MOUNTING HEIGHT AND THROW DISTANCE WITH OWNER IT GROUP.

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WDG Project No: 2024002

SHEET NAME

TECHNOLOGY FLOOR PLANS

SHEET NO. T201

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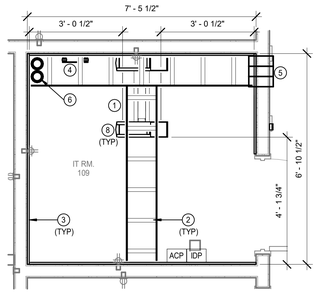
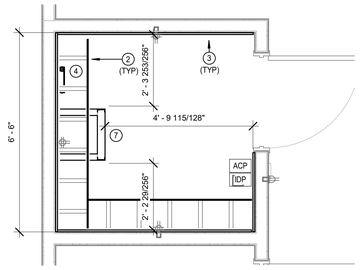


N

1 **ENLARGED PLAN - IT RM. 109**
Scale: 1/2" = 1'-0"



N

2 **ENLARGED PLAN - IT RM. 207**
Scale: 1/2" = 1'-0"

TECHNOLOGY KEYED NOTES:

1. PROVIDE AND INSTALL ONE (1) FLOOR MOUNTED, 2- POST EQUIPMENT RACK (BLACK IN COLOR). PROVIDE BONDING WASHERS, BOLTS, AND NUTS AT ALL MECHANICALLY CONNECTED LOCATIONS OF THE RACK TO ENSURE THAT ALL PIECES OF THE RACK ARE COMPLETELY BONDED. SCRAPING PAINT FROM RACKS TO MAKE A BOND WILL NOT BE ACCEPTED. ALL RACK MOUNTED COMPONENTS SHALL BE MOUNTED WITH BONDING SCREWS AND THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (50) ADDITIONAL BONDING SCREWS FOR THE INSTALLATION OF OWNER EQUIPMENT. NO DAISY CHAINING GROUNDS FROM RACK TO CABLE TRAY OR TO OTHER RACKS WILL BE ACCEPTED. ALL GROUNDS SHALL BE HOME RUN TO THE TELECOMMUNICATIONS GROUND BUS BAR (TGBB). TYPICAL FOR ALL SHOWN ON THE ENTIRE PROJECT.
2. PROVIDE AND INSTALL A 12" WIDE, UNIVERSAL LADDER TRAY AND ALL REQUIRED MOUNTING HARDWARE. LADDER TRAY SHALL BE BLACK IN COLOR. TYPICAL FOR ALL SHOWN ON ENTIRE PROJECT.
3. INDICATES THE LOCATION OF A 8' TALL, 3/4" FIRE RATED PLYWOOD CONTRACTOR TO PROVIDE AND INSTALL PLYWOOD AND ALL REQUIRED MOUNTING HARDWARE. PLYWOOD SHALL BE PAINTED WHITE WITH FIRE RATED PAINT. TYPICAL FOR ALL SHOWN ON DRAWING.
4. INDICATES THE LOCATION OF A NEW WALL MOUNTED TELECOMMUNICATION GROUND BUS BAR (TGBB). CABLING CONTRACTOR TO PROVIDE BUS BAR AND ALL REQUIRED MATERIAL TO MOUNT AT THE LOCATION SHOWN. TGBB TO BE MOUNTED AT +65" A.F.F.
5. (3) 4" FIRE RATED CONDUIT SLEEVE PATHWAY. PROVIDE 12" VERTICAL LADDER TRAY FOR CABLE SUPPORT ON WALL.
6. (2) 4" BACKBONE CONDUITS. STUB BACKBONE CONDUIT INTO ROOM + 4" AFF. PROVIDE BUSHING ON CONDUIT ENDS AND LABEL ENDS WITH DESTINATION. PROVIDE AND INSTALL 12" VERTICAL LADDER TRAY FOR CABLE SUPPORT ON WALL
7. PROVIDE AND INSTALL ONE (1) WALL MOUNTED, EQUIPMENT RACK (BLACK IN COLOR). PROVIDE BONDING WASHERS, BOLTS, AND NUTS AT ALL MECHANICALLY CONNECTED LOCATIONS OF THE RACK TO ENSURE THAT ALL PIECES OF THE RACK ARE COMPLETELY BONDED. SCRAPING PAINT FROM RACKS TO MAKE A BOND WILL NOT BE ACCEPTED. ALL RACK MOUNTED COMPONENTS SHALL BE MOUNTED WITH BONDING SCREWS AND THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (50) ADDITIONAL BONDING SCREWS FOR THE INSTALLATION OF OWNER EQUIPMENT. NO DAISY CHAINING GROUNDS FROM RACK TO CABLE TRAY OR TO OTHER RACKS WILL BE ACCEPTED. ALL GROUNDS SHALL BE HOME RUN TO THE TELECOMMUNICATIONS GROUND BUS BAR (TGBB). TYPICAL FOR ALL SHOWN ON THE ENTIRE PROJECT.
8. PROVIDE AND INSTALL ONE (1) 7'X6", FRONT AND REAR MANAGED, VERTICAL CABLE MANAGER (BLACK IN COLOR). CABLE MANAGERS SHALL BE INSTALLED ON EACH END OF THE RACK SYSTEMS AND BETWEEN EACH RACK. CABLE MANAGERS SHALL HAVE A SINGLE, SOLID, FULL HEIGHT HINGED DOOR IN THE FRONT AND WIDE SPACED CABLE RINGS WITH SPIN-OPEN LATCHES IN THE REAR. TYPICAL FOR ALL SHOWN IN THE ENTIRE PROJECT.

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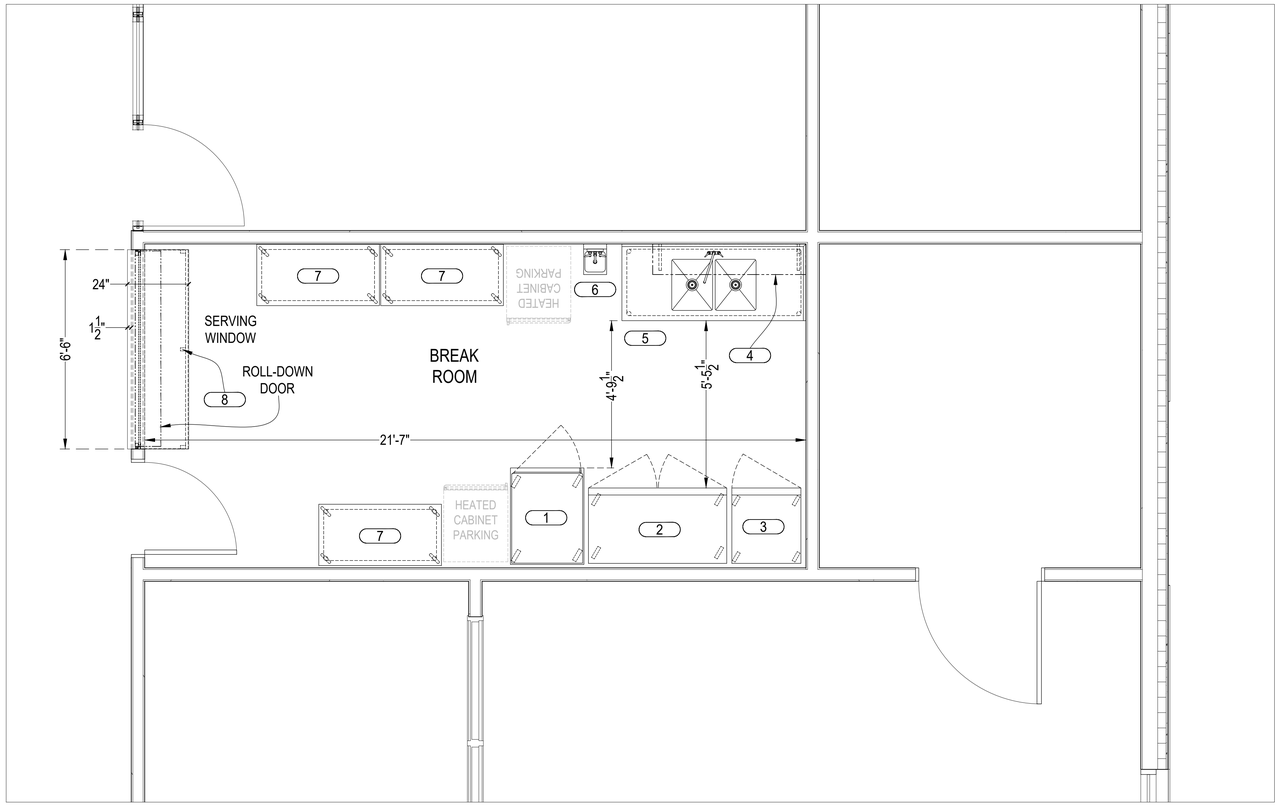
WDG Project No: 2024002

SHEET NAME

TECHNOLOGY ENLARGED PLANS

SHEET NO. T211

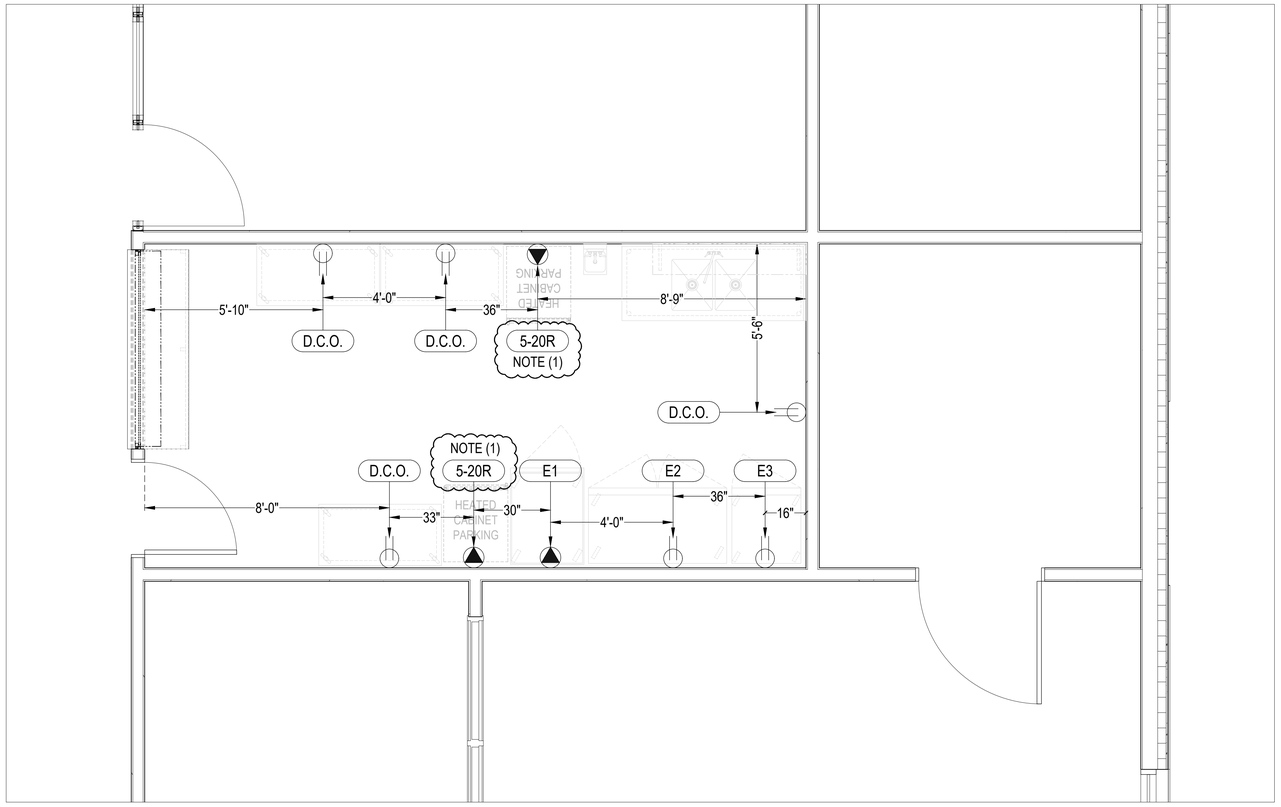


1 K100 FOODSERVICE FLOOR PLAN

1/2" = 1'-0"

EQUIPMENT SCHEDULE

Item No	Qty	Equipment Description	Manufacturer	Model Number	Equipment Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	Hot Holding & Heating
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	–
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	–
4	1	12" x 60" S/S Wall Shelf	Advance Tabco	WS-12-60-16	–
5	1	6' x 30" S/S Table with Sinks	Advance Tabco	KMS-306	–
6	1	Wall Mount Hand Sink	Krowne	HS-19	"Space Saver" w/Side Splashes
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	Modify to 78" x 17"



2 K100 FOODSERVICE ELECTRICAL PLAN

1/2" = 1'-0"

ELECTRICAL SCHEDULE

Item No	Qty	Equipment Description	Manufacturer	Model Number	Amps	KW	HP	Volts	Phase	Cycle	Hardwire	Conn. Cord/Plug	NEMA Plug No.	Electrical A.F.F. (in)	Elec Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	33.4	12.0	–	208	3	60	–	X	15-50P	60	(E1)
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	5.4	–	1/2	120	1	60	–	X	5-15P	48	(E2)
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	3.7	–	1/2	115	1	60	–	X	5-15P	48	(E3)
4	1	12" x 60" S/S Wall Shelf	Advance Tabco	WS-12-60-16	–	–	–	–	–	–	–	–	–	–	–
5	1	6' x 30" S/S Table with Sinks	Advance Tabco	KMS-306	–	–	–	–	–	–	–	–	–	–	–
6	1	Wall Mount Hand Sink	Krowne	HS-19	–	–	–	–	–	–	–	–	–	–	–
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–	–	–	–	–	–	–	–	–	–	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	–	–	–	–	–	–	–	–	–	–	–

D.C.O. / = NEMA #5-15R DUPLEX CONVENIENCE OUTLET (120-V/1-Ø/60-HZ), LOCATED 48" A.F.F. UNLESS OTHERWISE NOTED

NOTE (1): DEDICATED 120-V/20A CIRCUITS WITH N.E.M.A. 5-20R RECEPTACLES AT 48" A.F.F.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	ELECTRICAL CONNECTION (HARDWIRED)
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
J	JUNCTION BOX
	LIGHT SWITCH
	LIGHT
	DISCONNECT BOX

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NOT FOR CONSTRUCTION

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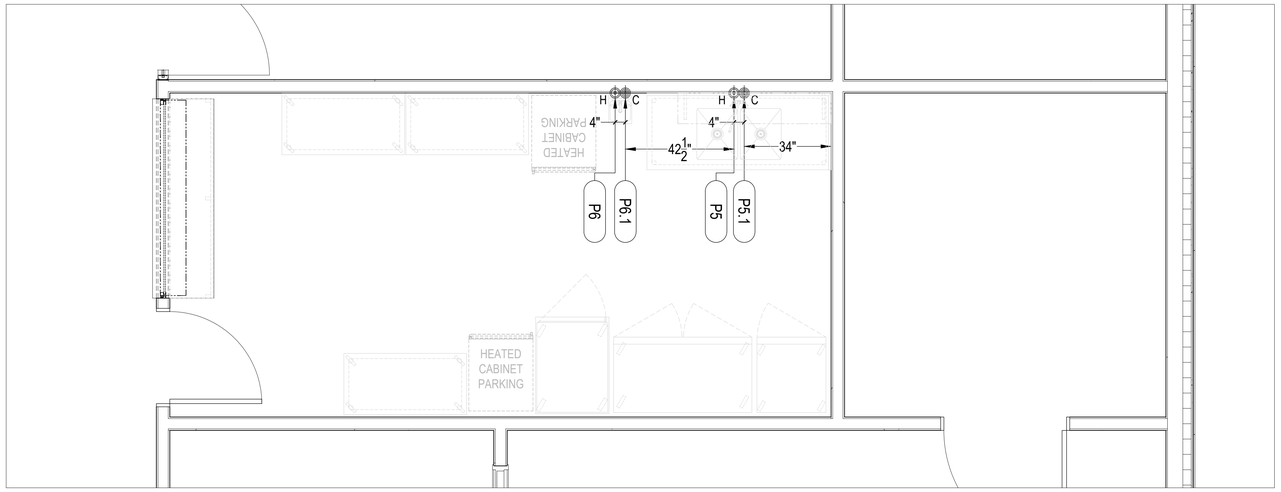
WDG Project No: 2024002

SHEET NAME

FOODSERVICE FLOOR PLAN & ELECTRICAL PLAN

SHEET NO. K100



1 K101 FOODSERVICE PLUMBING PLAN

1/2" = 1'-0"

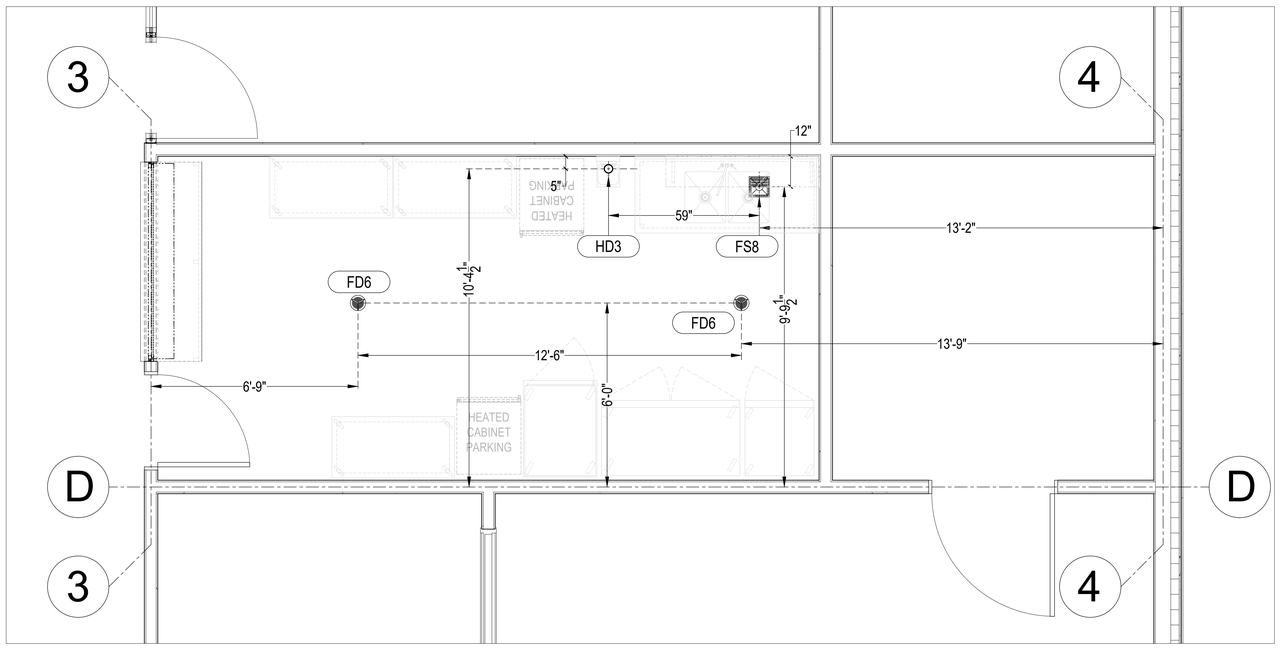
PLUMBING SCHEDULE

Item No	Qty	Equipment Category	Manufacturer	Model Number	Cold Water Size (in)	Cold Water AFF (in)	Hot Water Size (in)	Hot Water AFF (in)	Plumbing Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	–	–	–	–	–
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	–	–	–	–	–
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	–	–	–	–	–
4	1	12" x 60" S/S Wall Shelf	Advance Tabco	WS-12-60-16	–	–	–	–	–
5	1	6' x 30" S/S Table with Sinks	Advance Tabco	KMS-306	1/2	12	1/2	12	(P5) HOT, (P5.1) COLD
6	1	Wall Mount Hand Sink	Krowne	HS-19	1/2	12	1/2	12	(P6) HOT, (P6.1) COLD
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–	–	–	–	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	–	–	–	–	–

NOTE: ALL CONNECTION POINTS TO BE SUPPLIED WITH RIGHT ANGLE STOPS AT HEIGHT ABOVE FINISHED FLOOR, PLUMBED TO RESPECTIVE FIXTURES UNLESS OTHERWISE NOTED

PLUMBING & MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	HOT WATER
	COLD WATER
	HUB DRAIN
	DIRECT WASTE CONN.
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	FLOOR SINK



2 K101 FOODSERVICE DRAINAGE PLAN

1/2" = 1'-0"

DRAINAGE SCHEDULE

Item No	Qty	Equipment Category	Manufacturer	Model Number	Direct Drain Size (in)	Indir Drain Size (in)	Direct Drain AFF (in)	Plumbing Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	–	–	–	–
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	–	–	–	–
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	–	–	–	–
4	1	12" x 60" S/S Wall Shelf	Advance Tabco	WS-12-60-16	–	–	–	–
5	1	6' x 30" S/S Table with Sinks	Advance Tabco	KMS-306	–	1 1/2	–	(FS8)
6	1	Wall Mount Hand Sink	Krowne	HS-19	–	1 1/2	–	(HD3)
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–	–	–	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	–	–	–	–

HD3 = 3" OPEN SITE "HUB" DRAIN

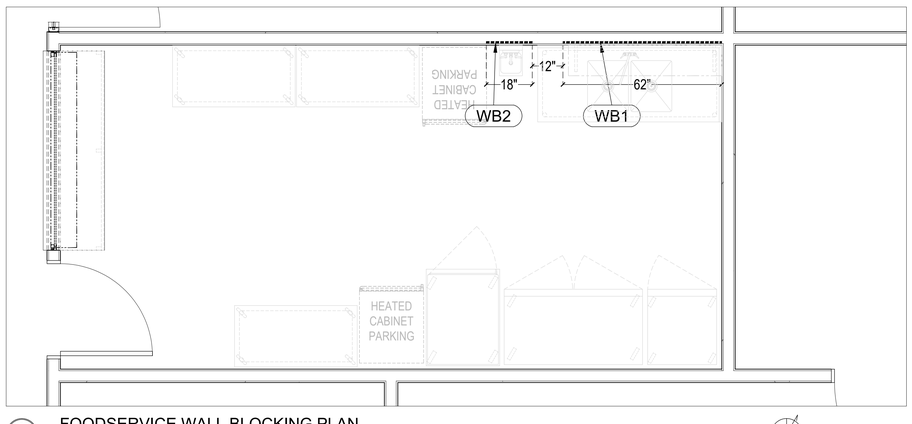
FS8 = 8" SQUARE FLOOR SINK WITH REMOVABLE BASKET & (1/2) GRATE TOP

FD6 = 6" FLOOR GRATE DRAIN (FOR GENERAL DRAINAGE AND CLEANUP)

NOTE: ALL DRAINS FROM FIXTURES EXCEPT WALL DRAINS FOR HAND SINKS AND DIRECT DRAINS ON FLOOR TROUGHS AND MOP SINK MARKED "INDIRECT" MUST BE AIR-GAPPED TO MEET HEALTH CODES.

PLUMBING & MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	HOT WATER
	COLD WATER
	HUB DRAIN
	DIRECT WASTE CONN.
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	FLOOR SINK



3 K101 FOODSERVICE WALL BLOCKING PLAN

1/2" = 1'-0"

WALL BLOCKING SCHEDULE

WB1	= WALL BLOCKING FROM 48" TO 72" A.F.F. FOR WALL SHELVING
WB2	= WALL BLOCKING FROM 30" TO 60" A.F.F. FOR HAND WASH SINK & ACCESSORIES

NOTE: ALL WALL BLOCKING TO BE MINIMUM 3/4" THICK PLYWOOD OR DIMENSIONAL LUMBER BETWEEN STUDS AND BEHIND DRYWALL BOARD

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

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6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/16/2025	50% CD SET
01/19/2026	PERMIT SET

REVISIONS

NOT FOR CONSTRUCTION

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Foodservice Facility Design & Planning
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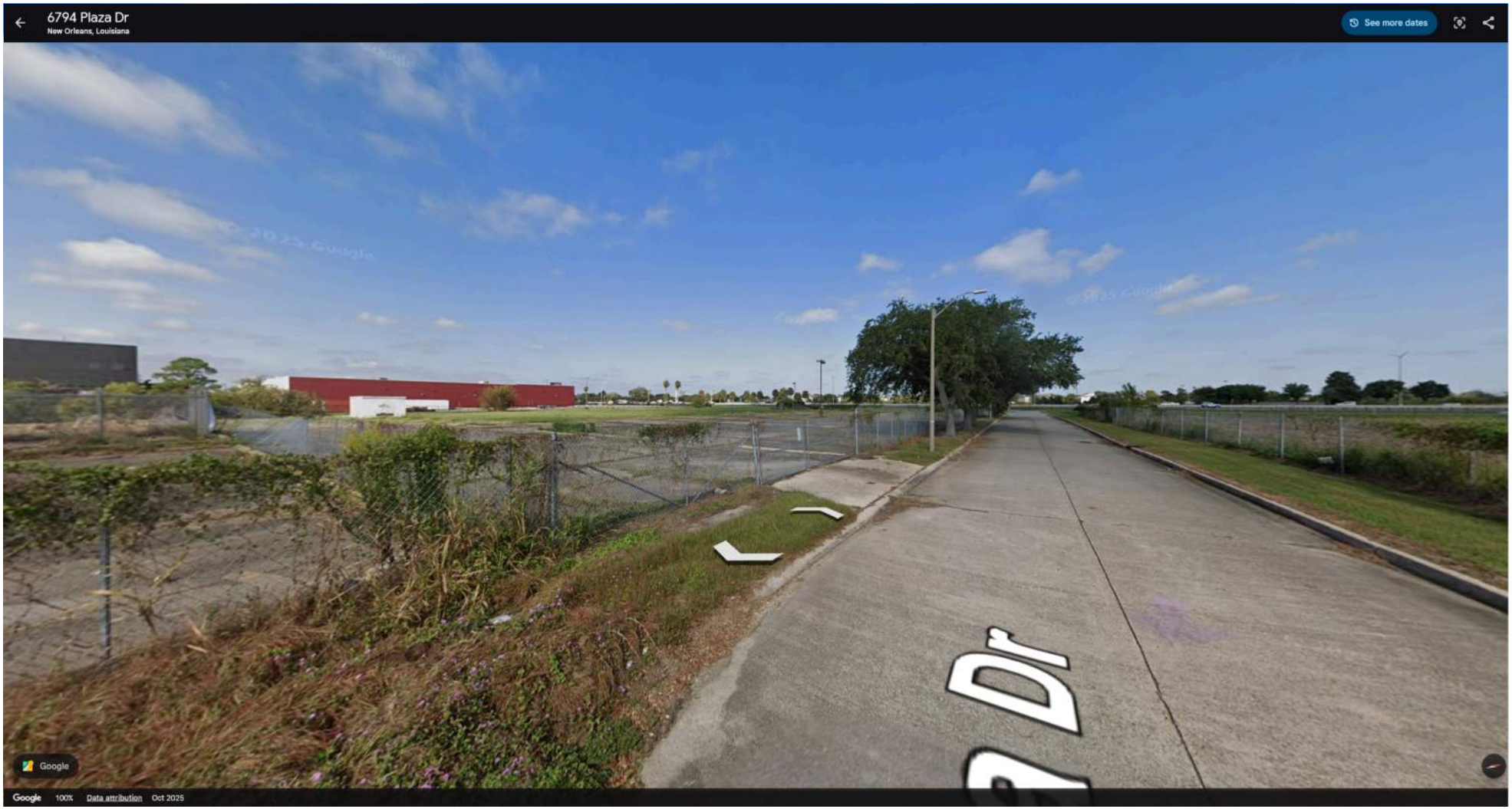
WDG Project No: 2024002

SHEET NAME

FOODSERVICE PLUMBING, DRAINAGE & WALL BLOCKING PLAN

SHEET NO. K101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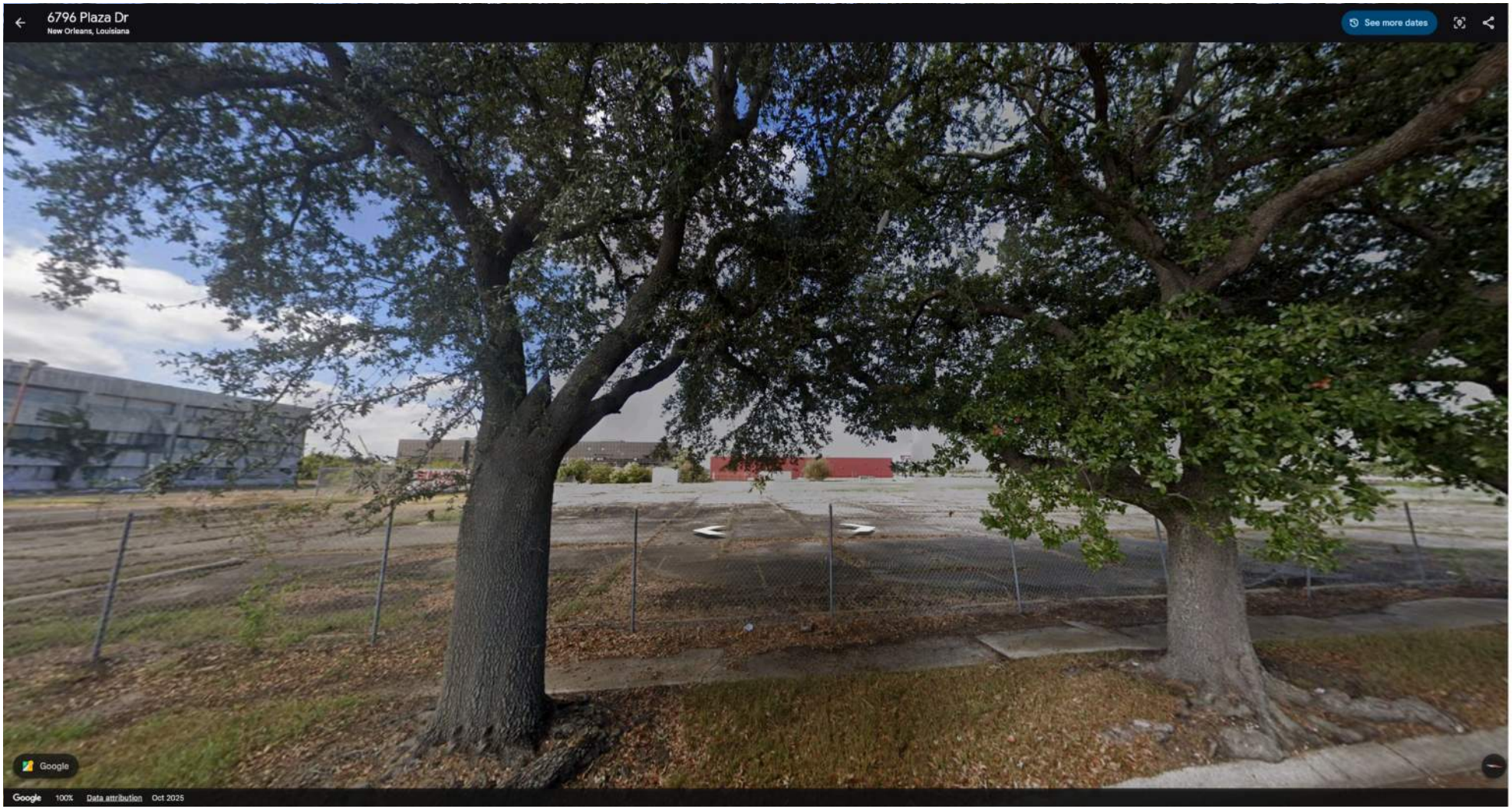
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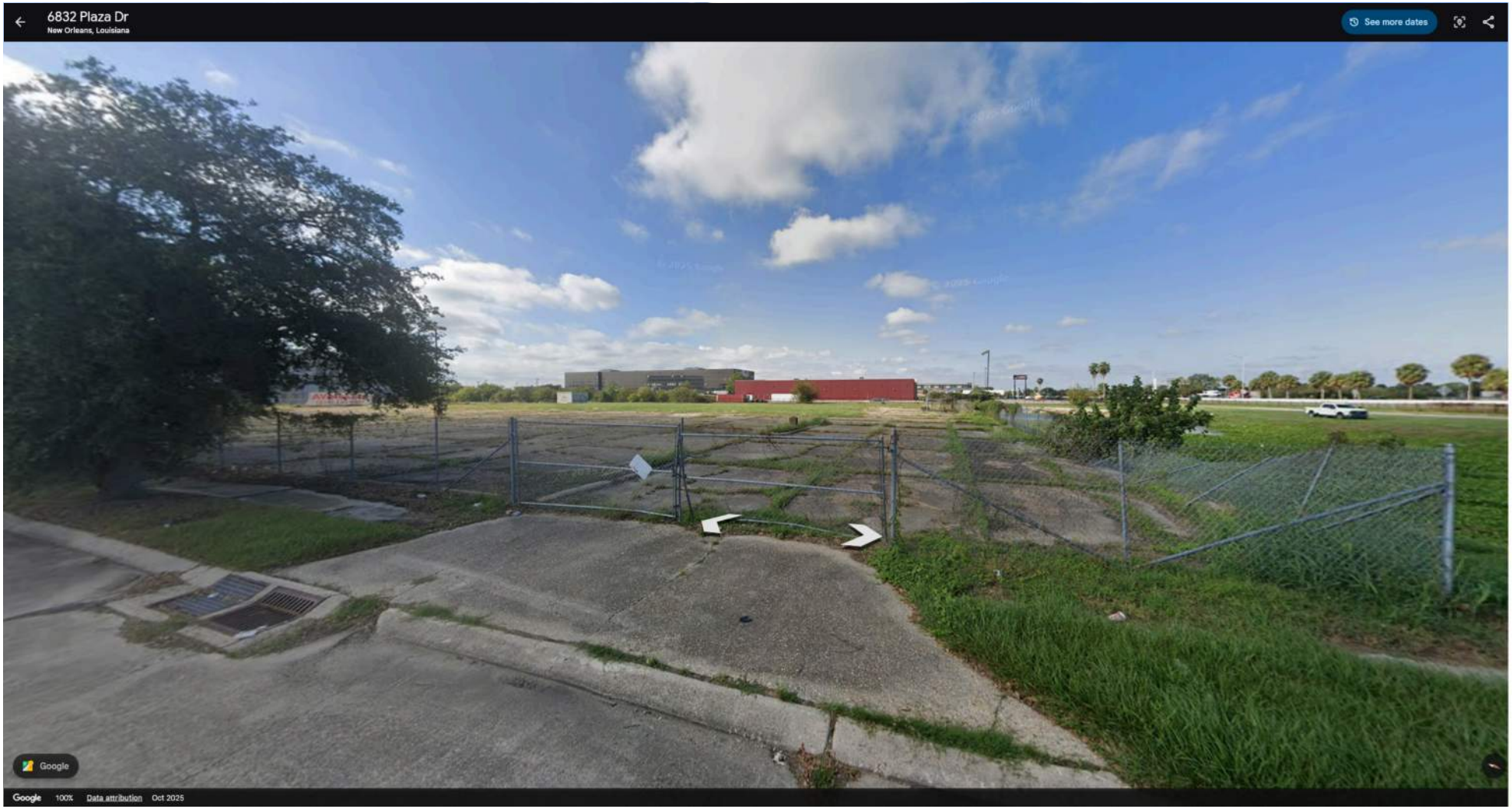
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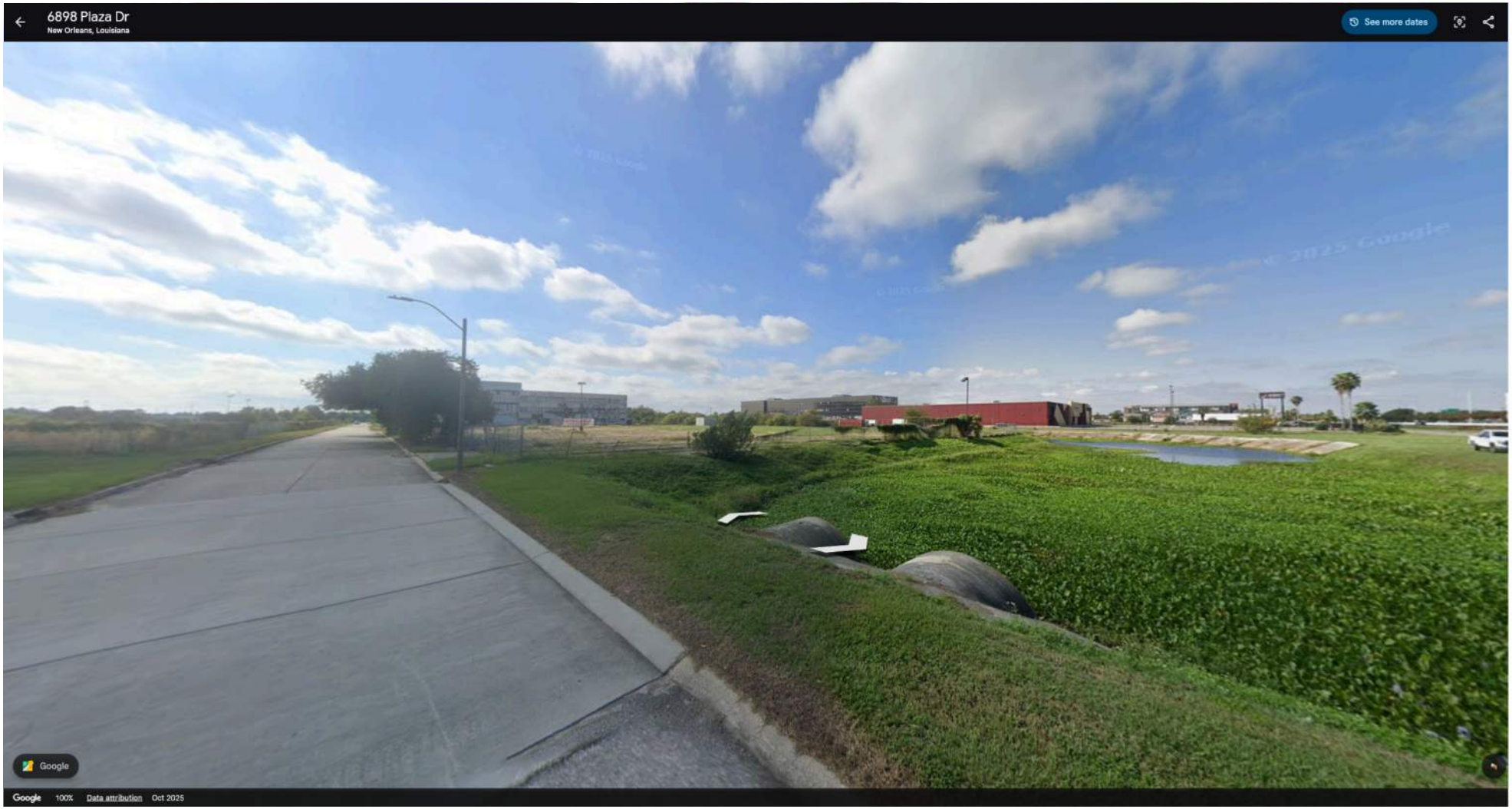
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GROWING FUTURE INNOVATORS, CREATORS, AND MAKERS FOR THE 21ST CENTURY

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SCIENCE • TECHNOLOGY • ENGINEERING • MATH

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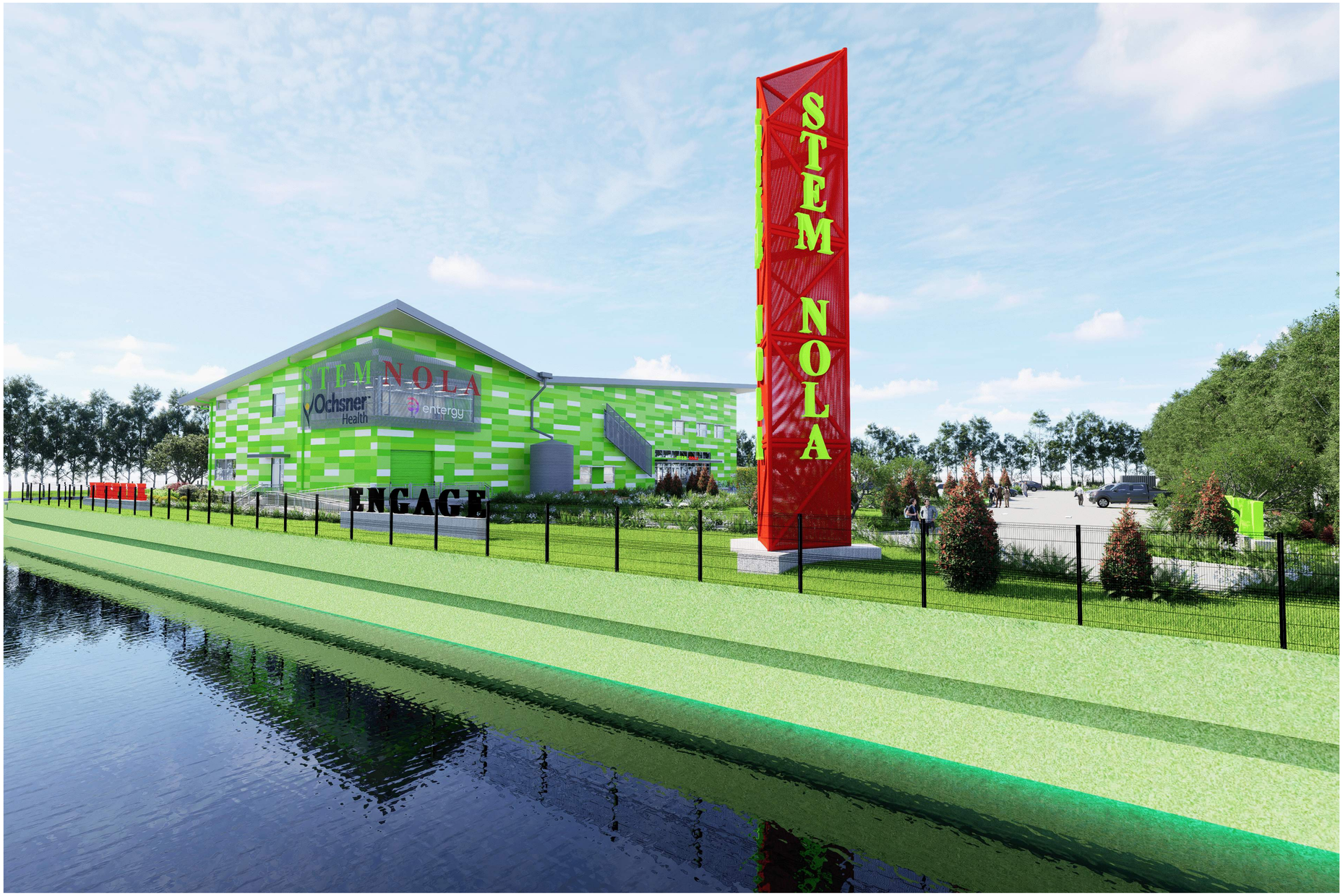

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PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

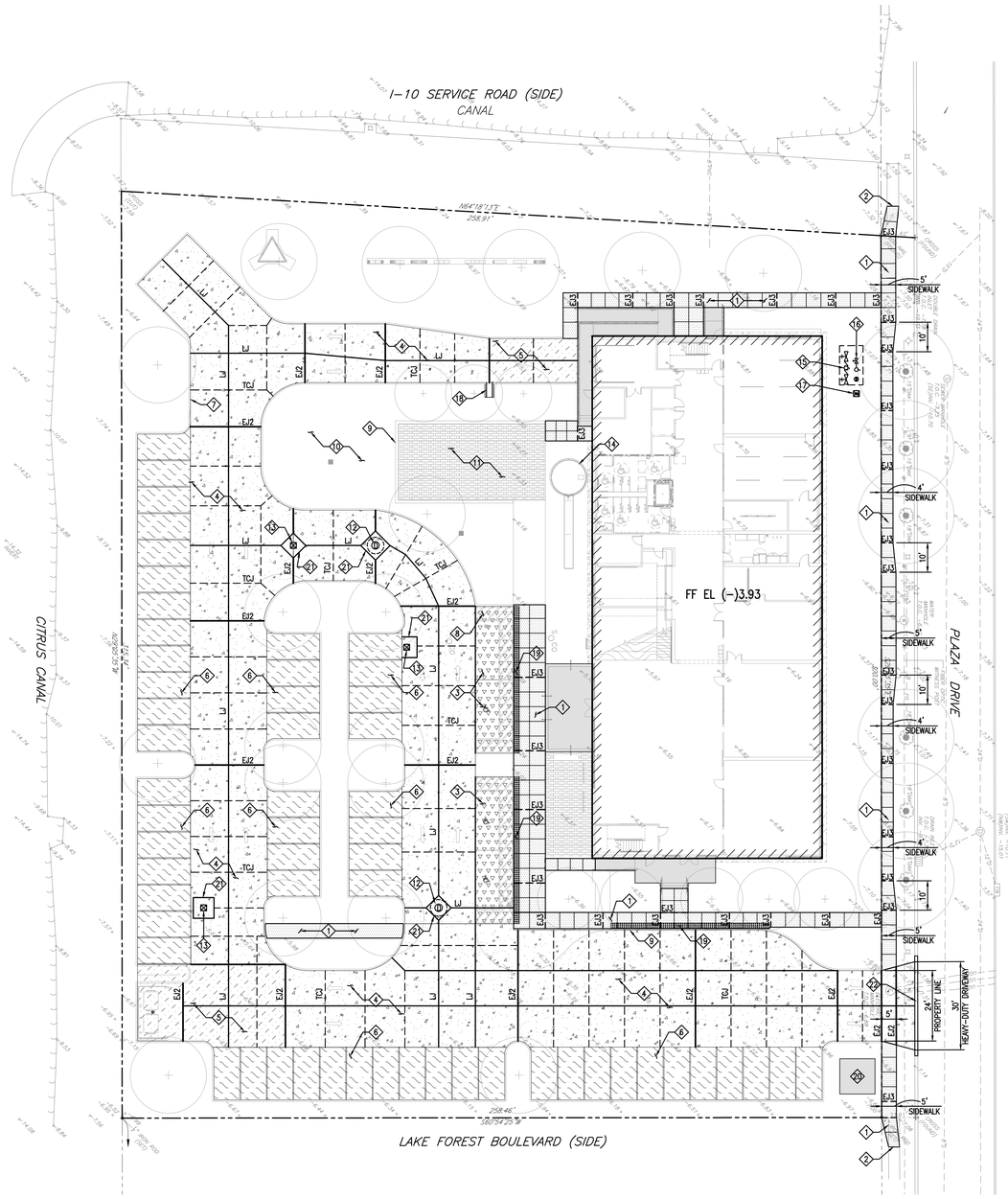
REVISIONS

DOMINIC A. WILLARD, AIA
REG. No. 7259
STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME
COVER SHEET

SHEET NO. G000



PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 / C100 SITE AND PAVING PLAN
1"=20'

SITE PLAN KEY NOTES:

1. CONCRETE SIDEWALK PAVING – TYP., SEE 2/C200.
2. TIE-IN NEW SIDEWALK PAVING INTO EXISTING SIDEWALK PAVEMENT, SEE 3/C200.
3. LIGHT-DUTY CONCRETE PAVING, SEE 4/C200.
4. HEAVY-DUTY CONCRETE PAVING, SEE 4/C200.
5. SUPER HEAVY-DUTY CONCRETE PAVING, SEE 4/C200.
6. PERMEABLE PAVING – TRUEGRID PRO-PLUS HEAVY DUTY PAVERS, WITH PARKING DELINEATORS. SEE C201.
7. CONCRETE VERTICAL CURB, SEE 4/C200.
8. PARKING STRIPING – TYP., SEE 5/C201.
9. DEPRESSED CONCRETE CURB.
10. BIORETENTION RAIN GARDEN, SEE LANDSCAPE.
11. PERMEABLE CONCRETE UNIT PAVERS, SEE LANDSCAPE.
12. DRAIN MANHOLE, SEE C102.
13. DRAIN INLET, SEE C102.
14. ABOVE GROUND CISTERN TANK WITH RUNNEL, SEE LANDSCAPE.
15. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTER FOR FIRE WATER, SEE C103.
16. REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER (LEAD FREE) FOR DOMESTIC WATER, SEE C103.
17. S&WB SUPPLIED WATER METER FOR DOMESTIC WATER, SEE C103.
18. CONCRETE FLUME WITH 6" VERTICAL CURB, SEE C102.
19. DETECTABLE WARNING SURFACE, SEE 10/C200.
20. TRANSFORMER PAD. SEE STRUCTURAL AND ELECTRICAL.
21. LONGITUDINAL JOINT AROUND DRAIN STRUCTURE WITH 2–#4 DIAGONAL REBAR AT EACH CORNER – TYP.
22. SECTION OF EXISTING MOUNTABLE CURB TO BE DEMOLISHED AND REPLACED FOR INSTALLATION OF NEW HEAVY-DUTY DRIVEWAY WITH MOUNTABLE CURB PER CITY OF NEW ORLEANS DPW STANDARD DRAWINGS AND REQUIREMENTS.

PAVING PLAN LEGEND

- PORTLAND CEMENT CONCRETE SIDEWALK – 4" THK. SEE 2/C200.
- TRUEGRID PAVERS – PARKING SEE 1/C201
- PORTLAND CEMENT CONCRETE ADA PARKING – 6" THK. SEE 4/C200.
- HEAVY DUTY PORTLAND CEMENT CONCRETE DUMPSTER PAD – 10" THK., SEE 4/C200.
- HEAVY DUTY PORTLAND CEMENT CONCRETE DRIVEWAY AND ENTRANCE – 8" THK. SEE 4/C200.
- DETECTABLE WARNING SURFACE. SEE .

JOINTING LEGEND

- EJ1 — PROVIDE ½" PREFORMED, NON-EXTRUDING TYPE EXPANSION JOINT FILLER MATERIAL WITH JOINT SEALANT ON TOP (W/WIDTH/DEPTH EQUAL) AT THE INTERFACE OF STRUCTURAL PAVING/BUILDING AND SITE PAVING – TYP.
- EJ2 — DOWELED EXPANSION JOINT (EJ2) – SEE 9/C200
- EJ3 — ½" SIDEWALK EXPANSION JOINT SEE 2/C200 – TYP. PROVIDE TOOLED JOINT FOR SIDEWALK PAVING. SPACING SHALL NOT TO EXCEED 5'
- LJ — KEYED TIED LONGITUDINAL JOINT (LJ) – SEE 9/C200
- TCJ — TRANSVERSE CONTROL (SAW-CUT) JOINT (TCJ) – SEE 9/C200 SPACING SHALL NOT EXCEED 15'

DPW SITE PLAN APPROVAL
PERMIT REQUIRED PRIOR TO WORK

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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100% CONSTRUCTION DOCUMENTS

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	100% CD'S

REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME
SITE AND PAVING PLAN

SHEET NO. C100

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

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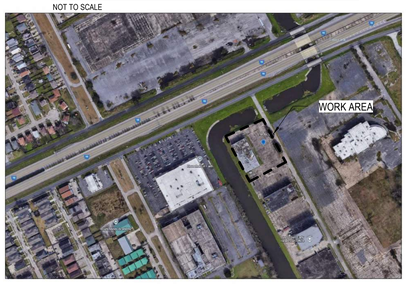
GENERAL NOTES

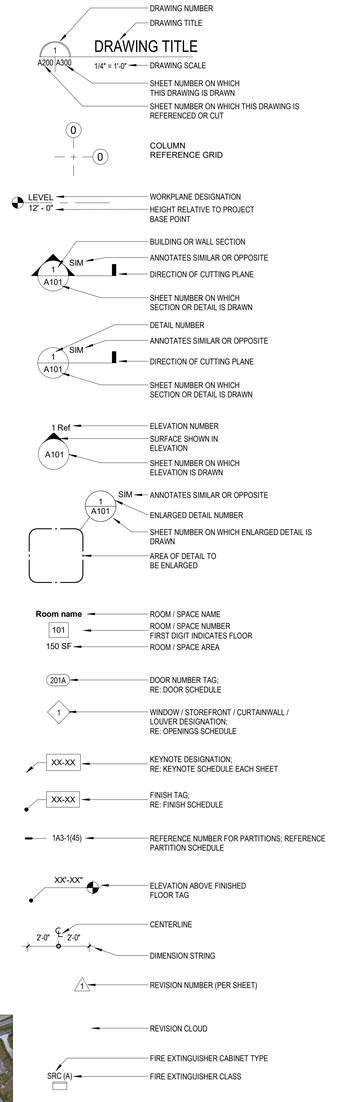
1. DIMENSIONS ARE SHOWN TO FACE OF FINISHES, U.N.O.
2. DO NOT SCALE DRAWINGS. CONSULT WITH ARCHITECT FOR CLARIFICATIONS.
3. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR BUILDING THIS PROJECT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, UNLESS OTHERWISE NOTIFIED IN WRITING BY THE OWNER OR ARCHITECT.
4. ALL WORK SHALL BE IN COMPLIANCE WITH THE CURRENT VERSION OF ALL APPLICABLE CODES AND THE AMERICAN DISABILITIES ACT. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DEFICIENCIES PRIOR TO THE COMPLETION OF WORK.
5. CONTRACTOR SHALL PROVIDE PUBLIC PROTECTIONS NECESSARY PER ALL APPLICABLE REGULATIONS.
6. CONTRACTOR WILL COORDINATE WITH OWNER FOR PARKING ON OR OFF SITE. IN ADDITION TO EQUIPMENT FOR CONSTRUCTION, PERSONAL VEHICULAR PARKING IS PERMITTED AS SPACE ALLOWS.
7. THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN HEREON ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE EXISTENCE AND ACTUAL LOCATION OF SUCH, WHETHER SHOWN HEREON OR NOT, PRIOR TO ANY EXCAVATION. ANY DAMAGES SHALL BE REPAIRED AT THE EXPENSE OF THE GENERAL CONTRACTOR.
8. ALL EXTERIOR JOINTS IN THE BUILDING ENVELOPE THAT ARE SOURCES OF WATER AND/OR AIR LEAKS SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. PENETRATIONS INTO, AND OPENINGS THROUGH AN EXIT ENCLOSURE (I.E. STAIRS) SHALL BE LIMITED TO THE FOLLOWING:
   A) DOORS PERMITTED IN NFPA 101, 7.1.3.2.1 (9)
   B) ELECTRICAL CONDUIT SERVING THE EXIT ENCLOSURE.
   C) REQUIRED EXIT DOOR OPENINGS
   D) DUCTWORK AND EQUIPMENT NECESSARY FOR INDEPENDENT STAIR PRESSURIZATION.
   E) WATER OR STEAM PIPING NECESSARY FOR THE HEATING OR COOLING OF THE EXIT ENCLOSURE.
   F) SPRINKLER PIPING.
   G) STANDPIPES.
   H) EXISTING PENETRATIONS PROTECTED IN ACCORDANCE WITH NFPA 8.3.5.
   I) PENETRATIONS FOR FIRE ALARM CIRCUITS, WHERE THE CIRCUITS ARE INSTALLED IN METAL CONDUIT AND THE PENETRATIONS ARE PROTECTED IN ACCORDANCE WITH 8.3.5.
10. FIRE BARRIERS SHALL BE CONTINUOUS FROM OUTSIDE WALL TO OUTSIDE WALL, FROM FIRE BARRIER TO ANOTHER FIRE BARRIER, OR A COMBINATION THEREOF, INCLUDING CONTINUITY THROUGH ALL CONCEALED SPACES SUCH AS THOSE FOUND ABOVE A CEILING. INCLUDING INTERSTITIAL SPACES.
11. PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIR DUCTS PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICES EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED WITH THE SAME FIRE RATING AS THE ADJACENT WALL.
12. PROVIDE STENCILING ABOVE ACCESSIBLE CEILINGS, AND IN CONCEALED SPACES AT CORRIDOR PARTITIONS, SMOKE STOP PARTITIONS, HORIZONTAL EXIT PARTITIONS EXIT ENCLOSURES, AND FIRE RATED WALLS. PRIOR TO STENCILING OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION FOR THE EXACT WORDING OF MESSAGE.
13. THE SEQUENCE OF INSTALLTION OF ALL ELEMENTS WITHIN AN ASSEMBLY, TO ASSURE THE CONSTRUCTIBILITY, IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. QUERIES BY THE GENERAL CONTRACTOR REGARDING CONSTRUCTIBILITY OF ANY ASSEMBLY SHALL BE ADDRESSED TO THE ARCHITECT FOR REVIEW IN A TIMELY MANNER, IN ORDER FOR THE ARCHITECT TO REVIEW AND COORDINATE WITH OTHER DISCIPLINES, AND TO ENSURE THE CONSTRUCTION SCHEDULE IN NOT ADVERSELY IMPACTED.
14. CONTRACTOR SHALL PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING DEMOLITION.
15. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY DEFECTS AND/OR DAMAGED/DECAYING MATERIALS FOUND IN THE EXISTING STRUCTURE OR WORK PRIOR TO ENCLOSING NEW CONSTRUCTION.
16. THE EXISTING PLAN IS DOCUMENTED ON THE DRAWINGS IN ACCORDANCE WITH A LIMITED NUMBER OF AVAILABLE ORIGINAL CONSTRUCTION DRAWINGS AND FIELD INVESTIGATIONS. VARIANCE OF ACTUAL EXISTING CONDITIONS FROM THOSE ILLUSTRATED ON THESE DOCUMENTS MAY OCCUR. THE GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT.
17. ALL EXISTING ITEMS TO REMAIN UNLESS OTHERWISE NOTED.
18. CONTRACTOR TO COORDINATE ALL SHUT DOWNS OR INTERRUPTIONS IN ANY SERVICE WITH THE OWNER PRIOR TO PROCEEDING WITH WORK.
19. ALL WOOD BLOCKING & NAILERS TO BE PRESSURE TREATED.

VICINITY MAP

NOT TO SCALE



GRAPHIC SYMBOLS



ABBREVIATIONS

ABV	ABOVE	DR	DOOR	INSUL	INSULATION	PVG	PAVING
ACOUS	ACOUSTIC(AL)	DRN	DRAIN	INT	INTERIOR, INTERNAL	PVMT	PAVEMENT
ACT	ACOUSTICAL CEILING TILE	DS	DOWN SPOUT	INTERM	INTERMEDIATE	PVT	PRIVATE
AD	AREA DRAIN	DSP	DRY STANDPIPE	INTLK	INTERLOCK(ING)	PWR	POWER
ADDL	ADDITIONAL	DTL	DETAIL	INV.	INVERT		
ADJ	ADJACENT	DW	DISHWASHER			QT	QUARRY TILE
ADJUST	ADJUSTABLE	DWG	DRAWING	JAN	JANITOR	QTY	QUANTITY
AFF	ABOVE FINISH FLOOR	DWR	DRAWER	JB	JUNCTION BOX	QUAL	QUALITY
AFG	ABOVE FINISH GRADE			JC	JANITOR'S CLOSET		
AGGR	AGGREGATE	EA	EACH	JCT	JUNCTION	R	THERMAL RESISTANCE, RISER
AHU	AIR HANDLING UNIT	EDF	ELEC. DRINKING FOUNTAIN	JST	JOIST	RA	RETURN AIR
ALUM	ALUMINUM	EJ	EXPANSION JOINT	JT	JOINT	RAD	RADIUS
ALT	ALTERNATE, ALTERATION	EL	ELEVATION			RB	RESILIENT BASE
AMT	AMOUNT	ELAST	ELASTOMERIC	KIT	KITCHEN	RC	REINFORCED CONCRETE
ANCH	ANCHOR(AGE)	ELECT	ELECTRIC(AL)	KO	KNOCKOUT	RCP	REFLECTED CEILING PLAN
ANOD	ANODIZE(D)	ELEV	ELEVATOR	KPL	KICKPLATE	RD	ROOF DRAIN
ANNUNC	ANNUNCIATOR	EMER	EMERGENCY	KVA	KILOVOLT-AMPERE	RDR	READER
ANT	ANTENNA	ENAM	ENAMEL	KW	KILOWATT	RE	REFERENCE
APPL	APPLIANCE	ENGR	ENGINEER	KWH	KILOWATT HOUR	REC	RECESSED
APPROX	APPROXIMATE	ENTR	ENTRANCE			RECEP	RECEPTACLE
APPRVD	APPROVED	EOS	EDGE OF SLAB	L	LONG, LENGTH	REF	REFRIGERATOR
ARCH	ARCHITECT(URAL)	EQ	EQUAL	LAD	LADDER	REFL	REFLECT(ED)
ASB	ASBESTOS	EQUIP	EQUIPMENT	LAM	LAMINATE(D)	REINF	REINFORCED
ASPH	ASPHALT	ETC	ET CETERA	LAT	LATERAL	REM	REMOVE
ASS	ASSEMBLY	EW	EACH WAY	LAV	LAVATORY	REQD	REQUIRED
ATTEN	ATTENUATION	EWC	ELEC. WATER COOLER	LB	POUND(S)	RES	RESISTANT
AUTH	AUTHORIZE(D)	EXIST	EXISTING	LBL	LABEL	RESIL	RESILIENT
AUTO	AUTOMATIC	EXP	EXPANSION	LBR	LUMBER	RET	RETAINING, RETURN
AVG	AVERAGE	EXT	EXTERIOR	LCD	LIQUID CRYSTAL DIODE	REV	REVISION
				LD	LEADER DRAIN	REVDR	REVOLVING DOOR
B/	BOTTOM OF	F	FAHRENHEIT	LF	LINEAR FOOT/FEET	RF	RESILIENT FLOOR(ING)
BR	BRICK	FA	FIRE ALARM, FRESH AIR	LH	LEFT HAND	RH	RIGHT HAND
BD	BOARD	FAB	FABRICATE, FABRICATION	LIB	LIBRARY	RM	ROOM
BETW	BETWEEN	FAR	FLOOR AREA RATIO	LIN	LINEAR	RO	ROUGH OPENING
BEV	BEVEL	FAST	FASTEN(ER)	LINO	LINOLEUM	ROW	RIGHT OF WAY
BIT	BITUMINOUS	FC	FOOT CANDLE	LIQ	LIQUID	RVL	REVEAL
BLDG	BUILDING	FCO	FLOOR CLEANOUT	LKR	LOCKER	RT	RESILIENT TILE
BLK	BLOCK	FC	FACE OF CURB	LM	LIMESTONE	RR	RAILROAD
BM	BEAM, BENCH MARK	FD	FLOOR DRAIN	LT	LIGHT		
BOL	BOLLARD	FDC	FIRE DPT CONNECTION	LVT	LUXURY VINYL TILE	SALV	SALVAGE
BOT	BOTTOM	FE	FIRE EXTINGUISHER	LVR	LOUVER	SAN	SANITARY
BRDG	BRIDGE, BRIDGING	FEC	FIRE EXTINGUISHER CAB.			SC	SOLID CORE
BRG	BEARING	FF	FINISH FACE	MACH	MACHINE	SCHED	SCHEDULE(D)
BRKT	BRACKET	FF&E	FIXTURES, FURNITURE & EQUIPMENT	MAINT	MAINTAIN, MAINTENANCE	SEAL	SEALANT
BRZ	BRONZE	FGR	FIBER GLASS REINFORCED	MAN	MANUAL	SECT	SECTION
BU	BUILT-UP	FH	FIRE HYDRANT, FLAT HEAD	MANUF	MANUFACTURER	SEL	SELECT
BUR	BUILT-UP ROOF	FHC	FIRE HOSE CABINET	MAR	MARBLE	SF	SQUARE FOOT/FEET
BW	BOTH WAYS	FDN	FOUNDATION	MAS	MASONRY	SFGL	SAFETY GLASS
		FIN	FINISH(ED)	MATL	MATERIAL	SGS	SILICONE GLAZING SEALANT
CAB	CABINET	FIXT	FIXTURE	MAX	MAXIMUM	SH	SHUTTER
CAP	CAPACITY	FLDG	FOLDING	MECH	MECHANICAL	SHR	SHOWER
CB	CATCH BASIN	FLEX	FLEXIBLE	MEMB	MEMBRANE	SHT	SHEET
CCTV	CLOSED CIRCUIT TV	FLR	FLOOR	MEZZ	MEZZANINE	SHTHG	SHEATHING
CEM	CEMENT(ITIOUS)	FLUOR	FLUORESCENT	MH	MANHOLE	SIM	SIMILAR
CDR	CERAMIC	FO	FINISHED OPENING	MHO	MAGNETIC HOLD OPEN	SK	SINK
CFL	COUNTERFLASHING	FOC	FACE OF CONCRETE, CURB	MIN	MINIMUM	SLV	SLEEVE
CFM	CUBIC FEET PER MINUTE	FOF	FACE OF FINISH	MIR	MIRROR	SNT	SEALANT
CG	CORNER GUARD	FOS	FACE OF SLAB, STUD	MISC	MISCELLANEOUS	SP	SOIL PIPE
CHAM	CHAMFER(ED)	FP	FIREPROOF	MK	MARK	SPEC	SPECIFICATION
CHR	CHILLED WATER RETURN	FPM	FEET PER MINUTE	MKR	MARKER	SPK	SPEAKER
CHS	CHILLED WATER SUPPLY	FR	FIRE RESISTANCE	MLDG	MOLDING	SPL	SPECIAL
CIR	CIRCLE	FRM	FRAME	MLWK	MILWORK	SPLR	SPRINKLER
CIP	CAST-IN-PLACE	FRP	FIBERGLASS REINF. PANEL	MO	MASONRY OPENING	SQ	SQUARE
CJ	CONTROL JOINT	FS	FLOOR SINK	MOV	MOVABLE	SS	STAINLESS STEEL
CL	CENTER LINE	FT	FOOT	MTD	MOUNTED	STC	SOUND TRANSMISSION CLASS
CLG	CEILING	FTG	FOOTING	MTL	METAL	STD	STANDARD
CLO	CLOSET	FURN	FINISH(ED), FURNITURE	MIN	MINIMUM	STG	SEATING
CLKG	CAULKING	FUT	FUTURE			STL	STEEL
CLR	CLEAR	FV	FIELD VERIFY	NAT	NATURAL	STOR	STORAGE
CMU	CONCRETE MASONRY UNIT	FWC	FABRIC WALL COVERING	NEUT	NEUTRAL	STRUC(T)	STRUCTURAL
CND	CONDITION	FXD	FIXED	NIC	NOT IN CONTRACT	STW	STORM WATER
CNTR	COUNTER			NO	NUMBER	SUPP	SUPPLEMENT(ARY)
CO	CLEAN OUT	GA	GAUGE	NOM	NOMINAL	SUSP	SUSPENDED
COEF	COEFFICIENT	GAL	GALLON	NRC	NOISE REDUCTION COEFFICIENT	SW	SWITCH
COLG	COILING	GALV	GALVANIZED	NTS	NOT TO SCALE	SYMM	SYMMETRICAL
COL	COLUMN	GC	GENERAL CONTRACTOR			SYN	SYNTHETIC
COM	COMMON	GD	GUTTER DRAIN	OA	OVERALL		
COMB	COMBINATION	GEN	GENERATOR	OC	ON CENTER	T	TREAD(S)
COMP	COMPRESSED	GENL	GENERAL	OD	OUTSIDE DIAMETER	T&B	TOP & BOTTOM
COMPT	COMPARTMENT	GF	GLASS FIBER	OF	OUTSIDE FACE	T&G	TONGUE & GROOVE
CONC	CONCRETE	GI	GALVANIZED IRON	OHD	OVERHEAD DOOR	TC	TOP OF CURB
CONN	CONNECTION	GKT	GASKET	OPNG	OPENING	TD	TRENCH DRAIN
CONST	CONSTRUCTION	GL	GLASS	OPP (H)	OPPOSITE (HAND)	TEL	TELEPHONE
CONT	CONTINUOUS	GND	GROUND	OPR	OPERABLE	TEMP	TEMPORARY
CONTR	CONTRACTOR	GOVT	GOVERNMENT	ORD	OVERFLOW ROOF DRAIN	TERR	TERRAZZO
COR	CORNER	GPH/M/S	GALLONS PER HOUR/MINUTE/SECOND	ORN	ORNAMENTAL	THK	THICK
CORR	CORRUGATE(D)	GR	GRADE	OUT	OUTLET	THRU	THROUGH
COV	COVER	GRN	GRANITE	OVFL	OVERFLOW	TLT	TOILET
CPR	COPPER	GYP	GYPSUM	OZ	OUNCE	TOC	TOP OF CONCRETE
CPT	CARPET	GSB	GYPSUM SHEATHING BD.			TOPO	TOPOGRAPHY, TOPOGRAPHIC
CR	CARD READER	GT	GREASE TRAP	PAR	PARAPET, PARALLEL	TOS	TOP OF STEEL
CRS	COLD ROLLED STEEL	GWB	GYPSUM WALL BOARD	PBD	PARTICLE BOARD	TRZ	TERRAZZO
CSG	CASING			PCF	POUNDS PER CUBIC FOOT	TRTD	TREATED
CSTG	CASTING	HB	HOSE BIBB	PED	PEDESTAL, PEDESTRIAN	TV	TELEVISION
CT	CERAMIC TILE	HC	HANDICAPPED, HOLLOW CORE	PERF	PERFORATED	TW	TREATED WOOD
CTD	COATED	HD	HEAD, HEAVY DUTY	PERIM	PERIMETER	TYP	TYPICAL
CTR	CENTER	HDN	HARDEN(ED)	PERP	PERPENDICULAR		
CTSK	COUNTERSUNK	HDR	HEADER	PKG	PARKING	U	HEAT TRANSFER COEFFICIENT
CU	CUBIC	HDW	HARDWARE	PKWY	PARKWAY	UH	UNIT HEATER
CV	CHECK VALVE	HDWD	HARDWOOD	PL	PLATE	UL	UNDERWRITER'S LABORATORIES
CW	COLD WATER	HEX	HEXAGONAL	PLAM	PLASTIC LAMINATE	UNO	UNLESS NOTED OTHERWISE
CWR	CONDENSATE WASTE RETURN	HGR	HANGER	PLAS	PLASTER	UR	URINAL
CWS	CONDENSATE WASTE SUPPLY	HGT	HEIGHT	PLBG	PLUMBING	UTIL	UTILITY
CYC	CYCLE	HID	HIGH INTENSITY DISCHARGE	PLF	POUNDS PER LINEAR FOOT		
CYL	CYLINDER	HM	HOLLOW METAL	PLWD	PLYWOOD	VAR	VARIES
		HORIZ	HORIZONTAL	PLTF	PLATFORM	VCT	VINYL COMPOSITION TILE
D	DEPTH	HR	HANDRAIL, HOUR(S)	PNL	PANEL	VERT	VERTICAL
DB	DECIBEL	HTG	HEATING	PNT	PAINT(ED)	VIF	VERIFY IN FIELD
DBL	DOUBLE	HTR	HEATER	POL	POLISH(ED)	VSF	VINYL SHEET FLOORING
DC	DIRECT CURRENT	HTW	HIGH TEMPERATURE WATER	POLYST	POLYSTYRENE	VWC	VINYL WALL COVERING
DEG	DEGREE	HVY	HEAVY	PORT	PORTABLE		
DEMO	DEMOLISH(ED), DEMOLITION	HW	HOT WATER	PR	PAIR	W/	WITH
DES	DESIGN(ED)	HWH	HOT WATER HEATER	PRCST	PRECAST	W/O	WITHOUT
DPT	DEPARTMENT	HWR	HOT WATER RETURN	PREFAB	PREFABRICATED	WB	WOOD BASE
DF	DRINKING FOUNTAIN	HWS	HOT WATER SUPPLY	PRI	PRIMARY	WC	WATER CLOSET
DIA	DIAMETER	HWY	HIGHWAY	PROJ	PROJECT	WF	WIDE FLANGE
DIAG	DIAGONAL	HYD	HYDRAULIC	PROP	PROPERTY	WD	WOOD
DIFF	DIFFUSER	HYDRO	HYDROSTATIC	PSF	POUNDS PER SQUARE FT	WG	WALL GUARD
DIM	DIMENSION			PSI	POUNDS PER SQUARE IN	WH	WATER HEATER
DISP	DISPENSER	ID	INSIDE DIMENSION	PT	PAINT(ED)	WT	WEIGHT
DIV	DIVISION	IN	INCH	PTC	POST-TENSIONED CONCRETE	WWF	WELDED WIRE FABRIC
DMT	DEMOUNTABLE	INCAND	INCANDESCENT	PTD	PAPER TOWEL DISPENSER	WWM	WELDED WIRE MESH
DN	DOWN	INCR	INCREASE	PTN	PARTITION		
		INFIL	INFILTRATION	PVC	POLYVINYL CHLORIDE	YD	YARD

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD, JR. REG. No. 38014 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

INFORMATION SHEET

SHEET NO. G001

DRAWING INDEX

DISCIPLINE	SHEET NO.	SHEET NAME	SD	50% DD	100% DD	50% CD	PERMIT
01 GENERAL							
01 GENERAL	G000	COVER SHEET		■	■	■	■
01 GENERAL	G001	INFORMATION SHEET		■	■	■	■
01 GENERAL	G002	DRAWING INDEX		■	■	■	■
01 GENERAL	G100	ADA REFERENCE GUIDELINES		■	■	■	■
01 GENERAL	G101	ADA REFERENCE GUIDELINES		■	■	■	■
01 GENERAL	G102	ADA REFERENCE GUIDELINES		■	■	■	■
01 GENERAL	G110	CODE SUMMARY & INFORMATION		■	■	■	■
01 GENERAL	G121	OVERALL LIFE SAFETY PLANS		■	■	■	■
01 GENERAL	G300	PARTITION TYPES & SCHEDULE		■	■	■	■
01 GENERAL	G301	TYP. MOUNTING HEIGHTS		■	■	■	■
03 SURVEY							
03 SURVEY	V001	SITE SURVEY		■	■	■	■
04 CIVIL							
04 CIVIL	C001	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN		■	■	■	■
04 CIVIL	C002	DEMOLITION AND EROSION AND SEDIMENT CONTROL NOTES AND DETAILS		■	■	■	■
04 CIVIL	C100	SITE AND PAVING PLAN		■	■	■	■
04 CIVIL	C101A	PART. GRADING PLAN		■	■	■	■
04 CIVIL	C101B	PART. GRADING PLAN		■	■	■	■
04 CIVIL	C102	DRAINAGE PLAN		■	■	■	■
04 CIVIL	C103	UTILITIES PLAN		■	■	■	■
04 CIVIL	C200	CIVIL GENERAL NOTES AND DETAILS		■	■	■	■
04 CIVIL	C201	CIVIL DETAILS		■	■	■	■
04 CIVIL	C300	CITY OF NEW ORLEANS DPW STANDARD DRAWINGS			■	■	■
04 CIVIL	C301	S&WB OF NEW ORLEANS STANDARD DRAWINGS				■	■
04 CIVIL	C302	S&WB OF NEW ORLEANS STANDARD DRAWINGS				■	■
05 LANDSCAPE							
05 LANDSCAPE	L101	OVERALL LANDSCAPE PLAN		■	■	■	■
05 LANDSCAPE	L201	MATERIALS & LAYOUT PLAN			■	■	■
05 LANDSCAPE	L301	LANDSCAPE SUBSURFACE GRADING PLAN					■
05 LANDSCAPE	L302	LANDSCAPE SUBSURFACE DRAINAGE PLAN					■
05 LANDSCAPE	L401	SITE DETAILS				■	■
05 LANDSCAPE	L402	BOARDWALK DETAILS				■	■
05 LANDSCAPE	L501	PLANTING PLAN				■	■
05 LANDSCAPE	L502	PLANTING DETAILS AND SPECIFICATION				■	■
05 LANDSCAPE	L601	IRRIGATION AREA PLAN				■	■
06 ARCHITECTURAL							
06 ARCHITECTURAL	A100	SITE PLAN	■	■	■	■	■
06 ARCHITECTURAL	A140	SITE DETAILS		■	■	■	■
06 ARCHITECTURAL	A201	FIRST AND SECOND FLOOR SLAB PLANS		■	■	■	■
06 ARCHITECTURAL	A211	FIRST AND SECOND FLOOR PLANS	■	■	■	■	■
06 ARCHITECTURAL	A212	FIRST AND SECOND FLOOR DIMENSION PLANS	■	■	■	■	■
06 ARCHITECTURAL	A213	FIRST AND SECOND FLOOR FINISH PLANS	■	■	■	■	■
06 ARCHITECTURAL	A220	ROOF PLAN	■	■	■	■	■
06 ARCHITECTURAL	A221	CANOPY ROOFS - DETAILS	■	■	■	■	■
06 ARCHITECTURAL	A222	CANOPY ROOFS - DETAILS	■	■	■	■	■
06 ARCHITECTURAL	A231	FIRST AND SECOND FLOOR REFLECTED CEILING PLANS	■	■	■	■	■
06 ARCHITECTURAL	A251	FF&E PLANS (FOR REFERENCE ONLY)		■	■	■	
06 ARCHITECTURAL	A300	ENLARGED PLANS		■	■	■	■
06 ARCHITECTURAL	A320	ENLARGED VERTICAL CIRCULATION DETAILS		■	■	■	■
06 ARCHITECTURAL	A321	ENLARGED VERTICAL CIRCULATION DETAILS		■	■	■	■
06 ARCHITECTURAL	A322	ENLARGED VERTICAL CIRCULATION DETAILS		■	■	■	■
06 ARCHITECTURAL	A323	ENLARGED VERTICAL CIRCULATION DETAILS				■	■
06 ARCHITECTURAL	A324	ENLARGED VERTICAL CIRCULATION DETAILS		■	■	■	■
06 ARCHITECTURAL	A410	INTERIOR PLAN DETAILS		■	■	■	
06 ARCHITECTURAL	A420	INTERIOR SECTION DETAILS		■	■	■	
06 ARCHITECTURAL	A430	CELIING DETAILS		■	■	■	
06 ARCHITECTURAL	A440	MILLWORK DETAILS		■	■	■	
06 ARCHITECTURAL	A500	AXONS & PERSPECTIVES	■	■	■	■	■
06 ARCHITECTURAL	A510	EXTERIOR ELEVATIONS	■	■	■	■	■
06 ARCHITECTURAL	A530	BUILDING SECTIONS	■	■	■	■	■
06 ARCHITECTURAL	A531	BUILDING SECTIONS	■	■	■	■	■
06 ARCHITECTURAL	A540	WALL SECTIONS		■	■	■	■
06 ARCHITECTURAL	A541	WALL SECTIONS		■	■	■	■
06 ARCHITECTURAL	A542	WALL SECTIONS		■	■	■	■
06 ARCHITECTURAL	A600	EXTERIOR DETAILS		■	■	■	■
06 ARCHITECTURAL	A620	TYP. ROOF DETAILS				■	■
06 ARCHITECTURAL	A621	TYP. ROOF DETAILS				■	■
06 ARCHITECTURAL	A700	INTERIOR ELEVATIONS		■	■	■	■
06 ARCHITECTURAL	A701	INTERIOR ELEVATIONS		■	■	■	■
06 ARCHITECTURAL	A702	INTERIOR ELEVATIONS		■	■	■	■
06 ARCHITECTURAL	A800	DOOR SCHEDULES & DETAILS		■	■	■	■
06 ARCHITECTURAL	A820	EXTERIOR OPENINGS SCHEDULE & ELEVATIONS		■	■	■	■

DRAWING INDEX

DISCIPLINE	SHEET NO.	SHEET NAME	SD	50% DD	100% DD	50% CD	PERMIT
06 ARCHITECTURAL	A901	INTERIOR SCHEDULES		■	■	■	■
07 LABORATORY PLANNING							
07 LABORATORY PLANNING	QL001	ABBREVIATIONS, LEGENDS AND NOTES		■	■	■	■
07 LABORATORY PLANNING	QL010	SCHEDULES - LAB TABLES AND FUME HOODS		■	■	■	■
07 LABORATORY PLANNING	QL011	SCHEDULES - LAB SINKS AND SERVICE FITTINGS		■	■	■	■
07 LABORATORY PLANNING	QL012	SCHEDULES - LAB ACCESSORIES		■	■	■	■
07 LABORATORY PLANNING	QL020	LABORATORY EQUIPMENT MATRIX		■		■	■
07 LABORATORY PLANNING	QL030	LAB CASEWORK TYPES, LEGENDS AND NOTES		■	■	■	■
07 LABORATORY PLANNING	QL201	LEVEL 01 - OVERALL PLAN		■	■	■	■
07 LABORATORY PLANNING	QL202	LEVEL 02 - OVERALL PLAN		■	■	■	■
07 LABORATORY PLANNING	QL311	LEVEL 01 - COMPUTER / ROBOTICS ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL312	LEVEL 01 - MAKER SPACE / PROTOTYPE ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL313	LEVEL 01 - WOODWORKING / METAL SHOP ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL314	LEVEL 01 - CRAFT LAB ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL315	LEVEL 01 - WET LAB ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL316	LEVEL 02 - DIGITAL MEDIA ENLARGED PLAN		■	■	■	■
07 LABORATORY PLANNING	QL901	LABORATORY DETAILS - CASEWORK SECTIONS		■	■	■	■
08 STRUCTURAL							
08 STRUCTURAL	S001	GENERAL NOTES		■	■	■	■
08 STRUCTURAL	S002	SPECIAL INSPECTIONS		■	■	■	■
08 STRUCTURAL	S003	TYPICAL DETAILS		■	■	■	■
08 STRUCTURAL	S004	TYPICAL DETAILS		■	■	■	■
08 STRUCTURAL	S101	FIRST FLOOR & FOUNDATION FRAMING PLAN		■	■	■	■
08 STRUCTURAL	S102	SECOND FLOOR FRAMING PLAN		■	■	■	■
08 STRUCTURAL	S103	ROOF FRAMING PLAN		■	■	■	■
08 STRUCTURAL	S201	FOUNDATION SECTIONS & DETAILS				■	■
08 STRUCTURAL	S301	FRAMING SECTIONS AND DETAILS					■
08 STRUCTURAL	S401	FRAMING ELEVATIONS	■	■	■	■	■
08 STRUCTURAL	S402	FRAMING ELEVATIONS			■	■	■
10 PLUMBING							
10 PLUMBING	P100	PLUMBING SITE PLAN		■	■	■	■
10 PLUMBING	P201	PLUMBING FLOOR PLANS		■	■	■	■
10 PLUMBING	P202	PLUMBING FLOOR PLANS					■
10 PLUMBING	P211	PLUMBING ROOF PLAN		■	■	■	■
10 PLUMBING	P220	PLUMBING ENLARGED PLANS		■	■	■	■
10 PLUMBING	P230	PLUMBING RISERS				■	■
10 PLUMBING	P231	PLUMBING RISERS				■	■
10 PLUMBING	P301	PLUMBING DETAILS		■	■	■	■
10 PLUMBING	P302	PLUMBING DETAILS		■	■	■	■
10 PLUMBING	P401	PLUMBING SCHEDULES		■	■	■	■
10 PLUMBING	P402	PLUMBING SCHEDULES					■
11 MECHANICAL							
11 MECHANICAL	M201	MECHANICAL FLOOR PLANS		■	■	■	■
11 MECHANICAL	M211	MECHANICAL ROOF PLAN		■	■	■	■
11 MECHANICAL	M301	MECHANICAL DETAILS		■	■	■	■
11 MECHANICAL	M302	MECHANICAL DETAILS		■	■	■	■
11 MECHANICAL	M303	MECHANICAL DETAILS					■
11 MECHANICAL	M401	MECHANICAL SCHEDULES		■	■	■	■
12 ELECTRICAL							
12 ELECTRICAL	E100	ELECTRICAL SITE PLAN		■	■	■	■
12 ELECTRICAL	E201	LIGHTING PLAN		■	■	■	■
12 ELECTRICAL	E211	ELECTRICAL FLOOR PLANS		■	■	■	■
12 ELECTRICAL	E212	ELECTRICAL CONNECTION FLOOR PLANS			■	■	■
12 ELECTRICAL	E221	ELECTRICAL ROOF PLAN		■	■	■	■
12 ELECTRICAL	E301	ELECTRICAL DETAILS		■	■	■	■
12 ELECTRICAL	E302	ELECTRICAL PANEL SCHEDULES		■	■	■	■
12 ELECTRICAL	E303	ELECTRICAL PANEL SCHEDULES					■
12 ELECTRICAL	E401	ELECTRICAL SCHEDULES		■	■	■	■
13 TECHNOLOGY							
13 TECHNOLOGY	T000	TECHNOLOGY NOTES AND LEGENDS		■	■	■	■
13 TECHNOLOGY	T100	TECHNOLOGY SITE PLAN			■	■	■
13 TECHNOLOGY	T201	TECHNOLOGY FLOOR PLANS		■	■	■	■
13 TECHNOLOGY	T211	TECHNOLOGY ENLARGED PLANS		■	■	■	■
14 FOOD SERVICE							
14 FOOD SERVICE	K100	FOODSERVICE FLOOR PLAN & ELECTRICAL PLAN		■	■	■	■
14 FOOD SERVICE	K101	FOODSERVICE PLUMBING, DRAINAGE & WALL BLOCKING PLAN		■	■	■	■

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PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
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12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD, VII
REG. No. 7529
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

DRAWING INDEX

SHEET NO. G002

CHAPTER 3: BUILDING BLOCKS

302-Floor and Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.

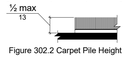


Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage 302.3 Openings. Openings in floor or ground surfaces shall not allow passage 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

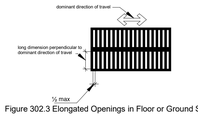


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

Figure 303.3 Beveled Change in Level

304-Turning Space / 305 Clear Floor Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

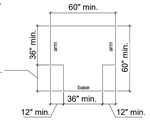


Figure 304.3.2 T-Shaped Turning Space

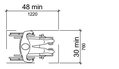


Figure 305.3 Clear Floor or Ground Space

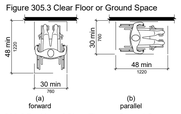


Figure 305.5 Position of Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

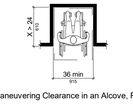


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306-Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

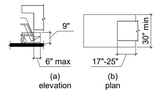


Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

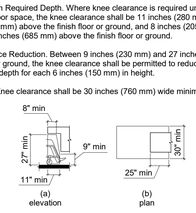


Figure 306.3 Knee Clearance

307-Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

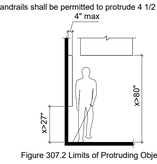


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

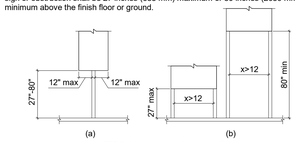


Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

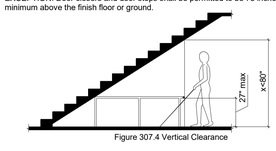


Figure 307.4 Vertical Clearance

308-Reach Ranges

Children's Reach Ranges

Foward or Side Reach	High (maximum)	Low (minimum)
Ages 3 and 4	36"	20"
Ages 5 through 8	40"	18"
Ages 9 through 12	44"	16"

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

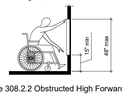


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

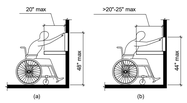
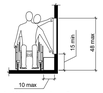


Figure 308.3.1 Unobstructed Side Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.



308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

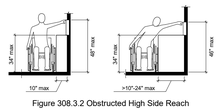


Figure 308.3.2 Obstructed High Side Reach

309-Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

402-Accessible Routes

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403-Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

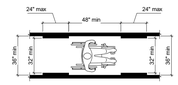


Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

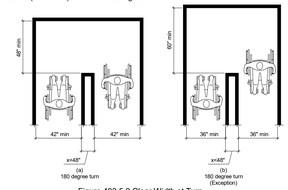


Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

404-Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

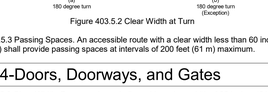


Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

Table 404.2.4.1 Maneuvering Clearances at Manuall Swinging Doors and Gates

Foward or Side Reach	High (maximum)	Low (minimum)	
Approach Direction	Door or Gate Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch side unless noted)
From front	Pull	60 inches	18 inches
From front	Push	48 inches	0 inches[1]
From hinge side	Pull	60 inches	36 inches
From hinge side	Pull	54 inches	42 inches
From hinge side	Push	42 inches[2]	22 inches[2]
From latch side	Pull	48 inches[3]	24 inches
From latch side	Push	42 inches[4]	24 inches

1. Add 12 inches if closer and latch are provided.
2. Add 6 inches if closer and latch are provided.
3. Beyond hinge side.
4. Add 6 inches if closer is provided.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

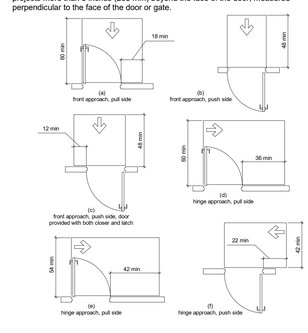


Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

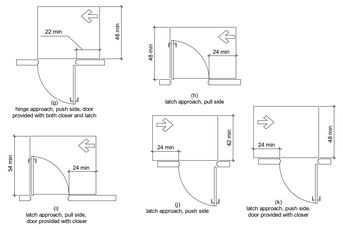


Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

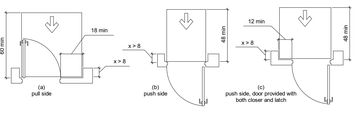


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

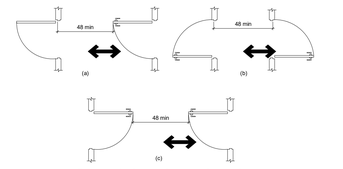


Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

WILLARD DESIGN GROUP
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6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD III
REG. No. 7529
STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

ADA REFERENCE GUIDELINES

SHEET NO. G100

CHAPTER 4: ACCESSIBLE ROUTES (cont.)

405-Ramps

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

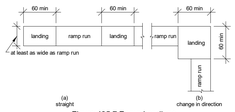

Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

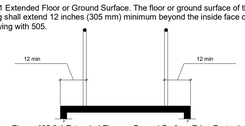

Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

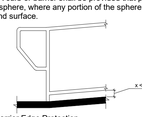

Figure 405.9.2 Curb or Barrier Edge Protection

406-Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

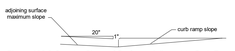

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

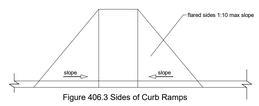

Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

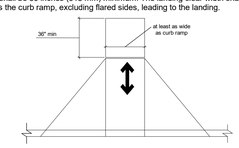

Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

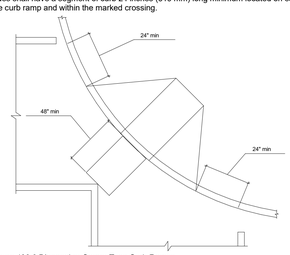

Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

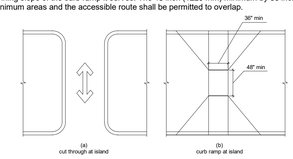

Figure 406.7 Islands in Crossings

407-Elevators

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

407.2 Elevator Landing Requirements. Elevator landings shall comply with 407.2.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in 308, measured to the centerline of the highest operable part.
EXCEPTION: Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the finish floor, measured to the centerline of the highest operable part.

407.2.1.2 Size. Call buttons shall be ¾ inch (19 mm) minimum in the smallest dimension.
EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.1.2.

407.2.1.3 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided at call controls.

407.2.1.4 Location. The call button that designates the up direction shall be located above the call button that designates the down direction.
EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.2.1.4.

407.2.1.5 Signals. Call buttons shall have visible signals to indicate when each call is registered and when each call is answered.
EXCEPTIONS: 1. Destination-oriented elevators shall not be required to comply with 407.2.1.5 provided that visible and audible signals complying with 407.2.2 indicating which elevator car to enter are provided.
2. Existing elevators shall not be required to comply with 407.2.1.5.

407.2.1.6 Keypads. Where keypads are provided, keypads shall be in a standard telephone keypad arrangement and shall comply with 407.4.7.2.

407.2.2 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.2.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.
EXCEPTIONS: 1. Visible and audible signals shall not be required at each destination oriented elevator where a visible and audible signal complying with 407.2.2 is provided indicating the elevator car designation information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2-½ inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.
EXCEPTIONS: 1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with 407.2.2.2.

407.3.1 Type. Elevator doors shall be the horizontal sliding type. Car gates shall be prohibited.

407.3.2 Operation. Elevator hoistway and car doors shall open and close automatically.
EXCEPTION: Existing manually operated hoistway swing doors shall be permitted provided that they comply with 404.2.3 and 404.2.9. Car door closing shall not be initiated until the hoistway door is closed.

407.3.3 Reopening Device. Elevator doors shall be provided with a reopening device complying with 407.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.
EXCEPTION: Existing elevators with manually operated doors shall not be required to comply with 407.3.3.

407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor.

407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1.
EXCEPTION: Existing elevator car configurations that provide a clear floor area of 16 square feet (1.5 m2) minimum and also provide an inside clear depth 54 inches (1370 mm) minimum and a clear width 36 inches (915 mm) minimum shall be permitted.

Table 407.4.1 Elevator Car Dimensions

Door Location	Minimum Dimensions			
	Door Clear Width	Inside Car, Side to Side	Inside Car, Back Wall to Front Return	Inside Car, Back Wall to Inside Face of Door
Centered	42 inches	80 inches	51 inches	54 inches
Side (off-centered)	36 inches[1]	68 inches	51 inches	54 inches
Any	36 inches[1]	54 inches	80 inches	80 inches
Any	36 inches[1]	60 inches[2]	60 inches[2]	60 inches[2]

1. A tolerance of minus 5/8 inch is permitted.
2. Other car configurations that provide a turning space complying with 304 with the door closed shall be permitted.

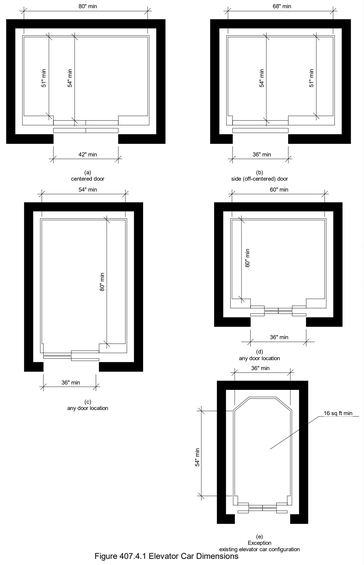

Figure 407.4.1 Elevator Car Dimensions

407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1¼ inch (32 mm) maximum.

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of ½ inch (13 mm) under rated loading to zero loading conditions.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and 309.4.
EXCEPTION: In existing elevators, where a new car operating panel complying with 407.4.6 is provided, existing car operating panels shall not be required to comply with 407.4.6.

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in 308.
EXCEPTIONS: 1. Where the elevator panel serves more than 16 openings and a parallel approach is provided, buttons with floor designations shall be permitted to be 54 inches (1370 mm) maximum above the finish floor.
2. In existing elevators, car control buttons with floor designations shall be permitted to be located 54 inches (1370 mm) maximum above the finish floor where a parallel approach is provided.407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall be raised or flush.
EXCEPTION: In existing elevators, buttons shall be permitted to be recessed.

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm) minimum above the finish floor.

407.4.6.4.2 Location. Emergency controls, including the emergency alarm, shall be grouped at the bottom of the panel.

407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2.

407.4.7.1.2 Location. Raised character and braille designations shall be placed immediately to the left of the control button to which the designations apply.
EXCEPTION: Where space on an existing car operating panel precludes tactile markings to the left of the controls, markings shall be placed as near to the control as possible.

407.4.7.2 Keypads. Keypads shall be identified by characters complying with 703.5 and shall be centered on the corresponding keypad button. The number five key shall have a single raised dot. The dot shall be 0.118 inch (3 mm) to 0.120 inch (3.05 mm) base diameter and in other aspects comply with Table 703.3.1.

407.4.8 Car Position Indicators. Audible and visible car position indicators shall be provided in elevator cars.

407.4.8.1 Visible Indicators. Visible indicators shall comply with 407.4.8.1.

407.4.8.1.1 Size. Characters shall be ½ inch (13 mm) high minimum.

407.4.8.1.2 Location. Indicators shall be located above the car control panel or above the door.

407.4.8.1.3 Floor Arrival. As the car passes a floor and when a car stops at a floor served by the elevator, the corresponding character shall illuminate.
EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.4.8.1.3 provided that the visible indicators extinguish when the call has been answered.

407.4.8.1.4 Destination Indicator. In destination-oriented elevators, a display shall be provided in the car with visible indicators to show car destinations.

410-Platform Lifts

410.1 General. Platform lifts shall comply with ASME A18.1 (1999 edition or 2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift.

410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with 302 and 303.

410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with 305.

410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1¼ inch (32 mm) maximum.

410.5 Operable Parts. Controls for platform lifts shall comply with 309.

410.6 Doors and Gates. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches (815 mm) minimum. Side doors and gates shall provide a clear width 42 inches (1065 mm) minimum.
EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

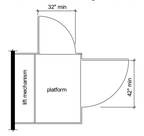

Figure 410.6 Platform Lift Doors and Gates

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

502-Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.
EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.
EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

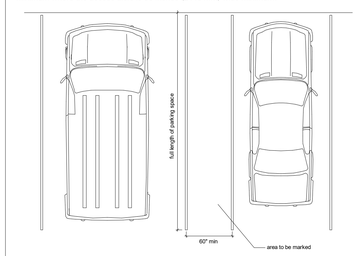

Figure 502.2 Vehicle Parking Spaces

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

504-Stairways

504.1 General. Stairs shall comply with 504.

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted.
EXCEPTION: Treads shall be permitted to have a slope not steeper than 1:48.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be ½ inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1½ inches (38 mm) maximum over the tread below.

Figure 504.5 Stair Nosings

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505-Railings

505.1 General. Handrails provided along walking surfaces complying with 403, required at rampscomplying with 405, and required at stairs complying with 504 shall comply with 505.

Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.8) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

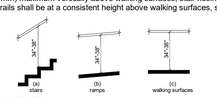

Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 2 1/4 inches (57 mm) minimum.

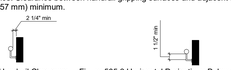

Figure 505.5 Handrail Clearance

Figure 505.6 Horizontal Projections Below Gripping Surface

505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

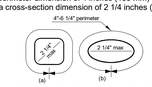

Figure 505.7.2 Handrail Non-Circular Cross Section

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

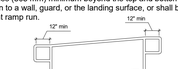

Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

Figure 505.10.2 Top Handrail Extension at Stairs

Figure 505.10.3 Bottom Handrail Extension at Stairs

Note: x = tread depth

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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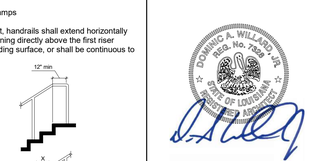
PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS



WDG Project No: 2024002

SHEET NAME

ADA REFERENCE GUIDELINES

SHEET NO. G101

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602-Drinking Fountains

602.1 General. Drinking fountains shall comply with 307 and 602.

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.
EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3½ inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

Figure 602.5 Drinking Fountain Spout Location

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

603-Toilet and Bathing Rooms

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.
Advisory 603.3 Mirrors. A single full-length mirror can accommodate a greater number of people, including children. In order for mirrors to be usable by people who are ambulatory and people who use wheelchairs, the top edge of mirrors should be 74 inches (1880 mm) minimum from the floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604-Water Closets and Toilet Compartments

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8.
EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

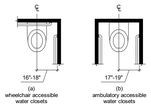


Figure 604.2 Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.
EXCEPTION: In residential dwelling units, a lavatory complying with 606 shall be permitted on the rear wall 18 inches (455 mm) minimum from the water closet centerline where the clearance at the water closet is 66 inches (1675 mm) minimum measured perpendicular from the rear wall.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.
EXCEPTIONS: 1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.
2. In residential dwelling units, the height of water closets shall be permitted to be 15 inches (380 mm) minimum and 19 inches (485 mm) maximum above the finish floor measured to the top of the seat.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.
EXCEPTIONS: 1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
2. In residential dwelling units, grab bars shall not be required to be installed in toilet or bathrooms provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
3. In detention or correction facilities, grab bars shall not be required to be installed in housing or holding cells that are specially designed without protrusions for purposes of suicide prevention.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

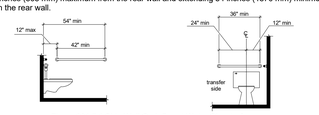


Figure 604.5.1 Side Wall Grab Bar at Water Closets &
Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.
EXCEPTIONS: 1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.
Advisory 604.7 Dispensers. If toilet paper dispensers are installed above the side wall grab bar, the outlet of the toilet paper dispenser must be 48 inches (1220 mm) maximum above the finish floor and the top of the gripping surface of the grab bar must be 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

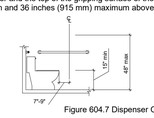


Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

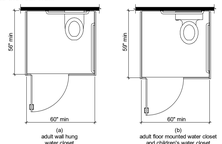


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

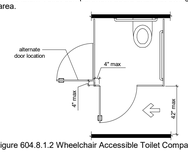


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.
EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

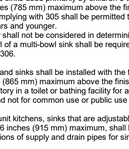


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1½ inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

605-Urinals

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13½ inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

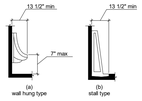


Figure 605.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606-Lavatories and Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.
EXCEPTIONS: 1. A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.
2. A lavatory in a toilet room or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance complying with 306.
3. In residential dwelling units, cabinetry shall be permitted under lavatories and kitchen sinks provided that all of the following conditions are met:
(a) the cabinetry can be removed without removal or replacement of the fixture;
(b) the finish floor extends under the cabinetry; and
(c) the walls behind and surrounding the cabinetry are finished.
4. A knee clearance of 24 inches (610 mm) minimum above the finish floor or ground shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor or ground.
5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily by children 5 years and younger.
6. The dip of the overflow shall not be considered in determining knee and toe clearances.
7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with 306.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.
EXCEPTIONS: 1. A lavatory in a toilet or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 606.3.
2. In residential dwelling unit kitchens, sinks that are adjustable to variable heights, 29 inches (735 mm) minimum and 36 inches (915 mm) maximum, shall be permitted where rough-in plumbing permits connections of supply and drain pipes for sinks mounted at the height of 29 inches (735 mm).

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

607-Bathtubs

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

608-Shower Compartments

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of
opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the showercompartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.

608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.
EXCEPTION: A lavatory complying with 606 shall be permitted on one 30 inch (760 mm) wide minimum side of the clearance provided that it is not on the side of the clearance adjacent to the controls or, where provided, not on the side of the clearance adjacent to the shower seat.

608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

609-Grab Bars

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

703-Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

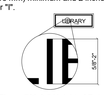


Figure 703.2.5 Height of Raised Characters

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

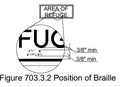


Figure 703.3.2 Position of Braille

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

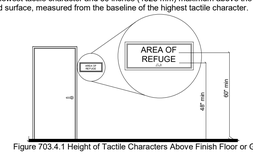


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

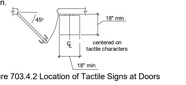


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

705-Detectable Warnings

705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

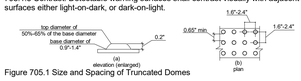


Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOUGLAS A. WILLARD, JR. REG. No. 34,751 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

ADA REFERENCE GUIDELINES

SHEET NO. G102

PROJECT DATA AND CODE SUMMARY

PROJECT ADDRESS
STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PROJECT SUMMARY
THE SCOPE OF THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW STEM MULTI-PURPOSE FACILITY WHICH WILL HOUSE THE OPERATIONS OF STEM NOLA AND PROVIDE OUTSIDE THE CLASSROOM ENRICHMENT EDUCATION TO STUDENTS IN GRADES K-12.

APPLICABLE CODES AND STANDARDS
BUILDING CODE
- LOUISIANA STATE UNIFORM CONSTRUCTION CODE (LSUCC)
  - 2021 INTERNATIONAL BUILDING CODE (IBC) (EXCLUDING PART 1 & CHAPTERS 11 & 27)
  - 2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC) (EXCLUDING PART 1)
  - 2021 INTERNATIONAL RESIDENTIAL CODE (IRC)
  - 2021 INTERNATIONAL MECHANICAL CODE (IMC)
  - 2021 INTERNATIONAL PLUMBING CODE (IPC)
  - 2021 INTERNATIONAL FUEL GAS CODE (IFGC)
  - 2020 NATIONAL ELECTRIC CODE (NEC)
  - 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

FIRE CODE & LIFE SAFETY
- NFPA 101 LIFE SAFETY CODE, 2015 EDITION

ACCESSIBILITY CODE
- AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT (ADA-ABA) ACCESSIBILITY GUIDELINES, 2010 STANDARD

OCCUPANCY CLASSIFICATION
IBC: BUSINESS (GROUP B)
NFPA: BUSINESS

CONSTRUCTION TYPE
IBC: TYPE II-B
NFPA: TYPE II (000)

SPRINKLERED: YES (NFPA 13)

BUILDING HEIGHTS AND AREAS:

MAX. NUMBER OF FLOORS	2 STORIES
MAX. HEIGHT	75 FEET (IBC TABLE 503)
MAX. FLOOR AREA	37,500 SF/FLOOR (IBC TABLE 503)
FLOORS PROPOSED	2 STORIES
HEIGHT PROPOSED	38'-9"
FLOOR AREA PROPOSED	

FIRST FLOOR	*13,807 SF*
SECOND FLOOR	*12,318 SF*
TOTAL	26,125 SF

OPEN SPACE: N/A

BASE FLOOD ELEVATION: RE: CIVIL

MINIMUM FLOOR ELEVATION: RE: CIVIL

FIRE-RESISTANCE RATING REQUIREMENTS (IBC 601)

CONSTRUCTION TYPE	II-B
PRIMARY STRUCTURAL FRAME	0-HR
BEARING WALLS	
EXTERIOR	0-HR (IBC 704.10, 705.5)
INTERIOR	0-HR
NONBEARING WALLS & PARTITIONS	
EXTERIOR	0-HR (IBC 705.5)
INTERIOR	0-HR
FLOOR CONSTRUCTION	0-HR
ROOF CONSTRUCTION	0-HR
SHAFT ENCLOSURES	1-HR (IBC 713.4)
MACHINE ROOM	0-HR (IBC 3005.4)
EXIT STAIRWAY	1-HR (IBC 3006.4)
FIRE PUMP	1-HR
RISK CATEGORY:	II

MINIMUM NUMBER OF EXITS / STORY (IBC 1006.3.3)

OCCUPANT LOAD OF 1-500	2 EXITS REQUIRED
OCCUPANT LOAD OF 501-1,000	3 EXITS REQUIRED
OCCUPANT LOAD OF 1,000+	4 EXITS REQUIRED

IECC PRESCRIPTIVE REQUIREMENTS

CLIMATE ZONE	2A HOT-HUMID
ROOF	R-25 CI
WALLS (ABOVE GRADE)	R-13 + R-7.5 CI
WALLS (BELOW GRADE)	NO REQUIREMENTS
FLOOR (SLAB ON GRADE)	NO REQUIREMENTS
FLOOR (OVER UNCONDITIONED SPACE)	R-10 CI
GLAZING (VERTICAL WINDOWS)	U-FACTOR = ≤ 0.40, SHGC = ≤ 0.25
SKYLIGHTS	U-FACTOR = ≤ 0.65, SHGC = ≤ 0.25

PLUMBING FIXTURE COUNTS
BUSINESS OCCUPANCY:
WATER CLOSETS: 1 PER 25 (1-50), THEN 1 PER 50
1+(169-50)/50 = 1+2.38 = **4 EA.** (MALE & FEMALE) = **8 TOTAL**
LAVATORIES: 1 PER 40 (1-80), THEN 1 PER 80
1+(169-80)/80 = 1+1.11 = **3 EA.** (MALE & FEMALE) = **6 TOTAL**
DRINKING FOUNTAINS: 1 PER 100 TOTAL OCCUPANTS
337/100 = 3.37 = **4 TOTAL**

OCCUPANT LOAD SCHEDULE

LEVEL	ROOM NUMBER	ROOM NAME	AREA	IBC CLASSIFICATION	AREA PER OCCUPANT-IBC	IBC OCCUPANTS	NFPA CLASSIFICATION	AREA PER OCCUPANT-NFPA	NFPA OCCUPANTS
FIRST FLOOR									
FIRST FLOOR	100	LOBBY	2703 SF	BUSINESS AREAS	100 SF	28	Business Use (other than air traffic control tower observation levels)	100 SF	27
FIRST FLOOR	101	FLEX SPACE	586 SF	BUSINESS AREAS	100 SF	6	Business Use (other than air traffic control tower observation levels)	100 SF	6
FIRST FLOOR	102	CORRIDOR	916 SF	BUSINESS AREAS	100 SF	10	Business Use (other than air traffic control tower observation levels)	100 SF	9
FIRST FLOOR	103	CO-WORKING SPACE 1	378 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	4
FIRST FLOOR	104	CO-WORKING SPACE 2	166 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
FIRST FLOOR	105	WOMEN'S RESTROOM	265 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
FIRST FLOOR	106	MEN'S RESTROOM	265 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
FIRST FLOOR	107	JAN. CLO.	46 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
FIRST FLOOR	108	ELECT. RM.	64 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	1
FIRST FLOOR	109	IT RM.	51 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	1
FIRST FLOOR	110	SPRINKLER RM.	100 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	1
FIRST FLOOR	111	STORAGE	321 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	3
FIRST FLOOR	112	LOADING DOCK	373 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	4
FIRST FLOOR	113	WET LAB	1043 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	21	Educational Use - Shops, laboratories, vocational rooms	50 SF	21
FIRST FLOOR	114	CRAFT LAB	690 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	14	Educational Use - Shops, laboratories, vocational rooms	50 SF	14
FIRST FLOOR	115	CRAFT STOR.	100 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	1	Storage Use - In other than storage and mercantile occupancies	500 SF	0
FIRST FLOOR	116	CONF. RM. 1	221 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	2
FIRST FLOOR	117	BREAK ROOM	213 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	2
FIRST FLOOR	118	SHOP STOR.	104 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	1	Storage Use - In other than storage and mercantile occupancies	500 SF	0
FIRST FLOOR	119	SHOP OFFICE	92 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	1
FIRST FLOOR	120	METAL SHOP	276 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	6	Educational Use - Shops, laboratories, vocational rooms	50 SF	6
FIRST FLOOR	121	WOOD SHOP	649 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	13	Educational Use - Shops, laboratories, vocational rooms	50 SF	13
FIRST FLOOR	122	MAKER SPACE + PROTOTYPE	1033 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	21	Educational Use - Shops, laboratories, vocational rooms	50 SF	21
FIRST FLOOR	123	COMPUTER/ ROBOTICS	1043 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	21	Educational Use - Shops, laboratories, vocational rooms	50 SF	21
FIRST FLOOR	STR 1	STAIR 1	192 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
FIRST FLOOR	STR 2	STAIR 2	196 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
			12088 SF			177			167
SECOND FLOOR									
SECOND FLOOR	200	COLLABORATIVE STAIR	698 SF	BUSINESS AREAS	100 SF	7	Business Use (other than air traffic control tower observation levels)	100 SF	7
SECOND FLOOR	201	FLEX SPACE	1091 SF	BUSINESS AREAS	100 SF	11	Business Use (other than air traffic control tower observation levels)	100 SF	11
SECOND FLOOR	202	WOMEN'S RESTROOM	265 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	203	MEN'S RESTROOM	265 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	204	MULTI-PURPOSE RM	969 SF	ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED (TABLES AND CHAIRS)	15 SF	65	Assembly Use - Less concentrated use, without fixed seating	15 SF	65
SECOND FLOOR	206	ELECT. RM.	42 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	207	IT RM.	42 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	208	DIGITAL MEDIA / GAMING	1990 SF	EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 SF	40	Educational Use - Shops, laboratories, vocational rooms	50 SF	40
SECOND FLOOR	209	DIGITAL MEDIA / GAMING STORAGE	122 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	1	Storage Use - In other than storage and mercantile occupancies	500 SF	0
SECOND FLOOR	210	PRIVATE GROUP POD	280 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	211	BREAK RM	444 SF	BUSINESS AREAS	100 SF	5	Business Use (other than air traffic control tower observation levels)	100 SF	4
SECOND FLOOR	212	CONF. RM 3	368 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	4
SECOND FLOOR	213	OPEN OFFICE	1221 SF	BUSINESS AREAS	100 SF	13	Business Use (other than air traffic control tower observation levels)	100 SF	12
SECOND FLOOR	214	VESTIBULE	40 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	215	TOILET RM	46 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	216	OFFICE	294 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	2
SECOND FLOOR	217	OFFICE	247 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	2
SECOND FLOOR	218	EXECUTIVE OFFICE	389 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	4
SECOND FLOOR	219	PRIVATE TOILET RM	67 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	1
SECOND FLOOR	220	OFFICE STORAGE	29 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	221	OFFICE	191 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
SECOND FLOOR	222	OFFICE	185 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
SECOND FLOOR	223	CONF. RM. 2	200 SF	BUSINESS AREAS	100 SF	2	Business Use (other than air traffic control tower observation levels)	100 SF	2
SECOND FLOOR	224	OFFICE CORRIDOR	254 SF	BUSINESS AREAS	100 SF	3	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	225	CO-WORKING SPACE 5	316 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	226	CO-WORKING SPACE 4	310 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	227	CO-WORKING SPACE 3	303 SF	BUSINESS AREAS	100 SF	4	Business Use (other than air traffic control tower observation levels)	100 SF	3
SECOND FLOOR	228	PHONEBOOTH	30 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	228	CLOSET	26 SF	BUSINESS AREAS	100 SF	1	Business Use (other than air traffic control tower observation levels)	100 SF	0
SECOND FLOOR	229	CORRIDOR	828 SF	BUSINESS AREAS	100 SF	9	Business Use (other than air traffic control tower observation levels)	100 SF	8
			11465 SF			203			189
GRAND TOTAL			23552 SF			380			355

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

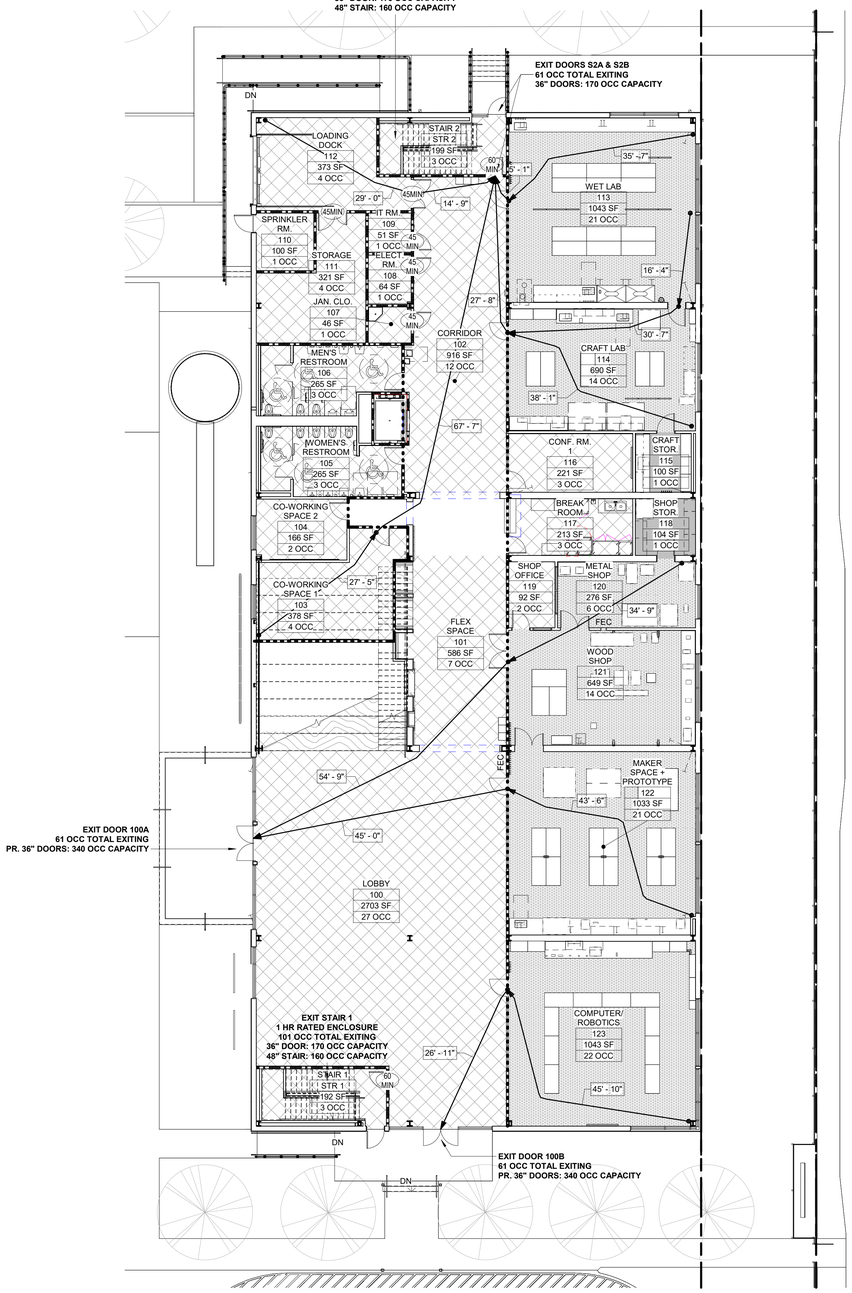
REVISIONS

DOMINIC A. WILLARD, AIA
REG. NO. 36178
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: 2024002

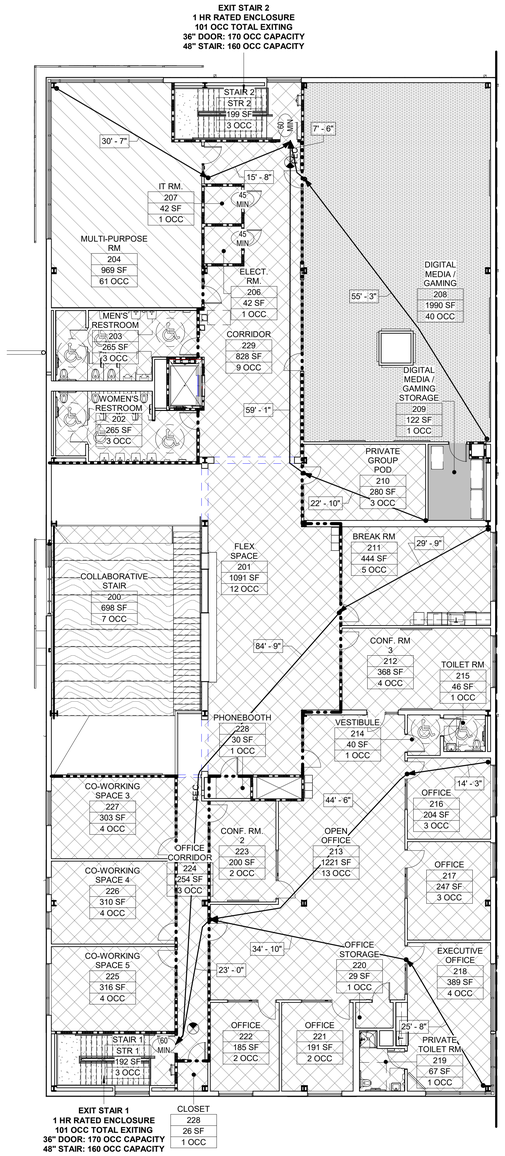
SHEET NAME
CODE SUMMARY & INFORMATION

SHEET NO.
G110



1 A221 G121 FIRST FLOOR LIFE SAFETY PLAN

3/32" = 1'-0"



2 A221 G121 SECOND FLOOR LIFE SAFETY PLAN

3/32" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. RE: G110 FOR BUILDING CODE SUMMARY & INFORMATION
2. RE: G300 FOR RATED WALL TYPES & INFORMATION
3. RE: ELEC. FOR SMOKE DETECTORS, EXIT LIGHTING, & FIRE ALARM INFORMATION.

LEGEND

Name	ROOM NAME
101	ROOM NUMBER
150 SF	AREA
XXX OCC	OCC. LOAD

- FIRE WALL
- 1-HR FIRE RATED PARTITION
- 2-HR FIRE RATED PARTITION
- 3-HR FIRE RATED PARTITION
- SMOKE BARRIER
- EXIT ACCESS PATH OF TRAVEL
- COMMON PATH OF TRAVEL
- NEW EMERGENCY EXIT SIGN
- EXISTING EMERGENCY EXIT SIGN
- 1HR — DOOR FIRE RATING
- FEC — RECESSED FIRE EXTINGUISHER CABINET ABC TYPE, TYP. U.O.N.

OCCUPANCY CLASSIFICATION LEGEND

- ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED (TABLES AND CHAIRS)
- BUSINESS AREAS
- EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS

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REVISIONS

DOMINIC A. WILLARD, JR. REG. No. 37909 STATE OF LOUISIANA

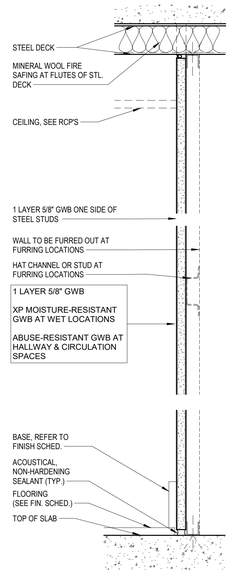
WDG Project No: 2024002

SHEET NAME

OVERALL LIFE SAFETY PLANS

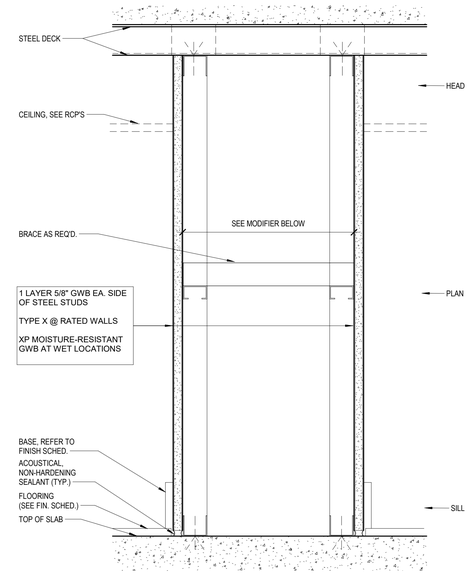
SHEET NO. G121

TYPE 5: ONE-SIDED PARTITION / FURRING



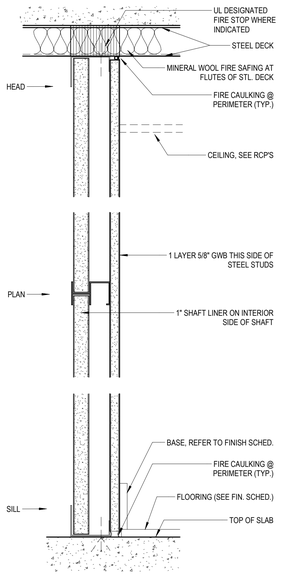
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC#
5AX-X	AS SHOWN		

TYPE 4: STEEL STUD PLUMBING CHASE



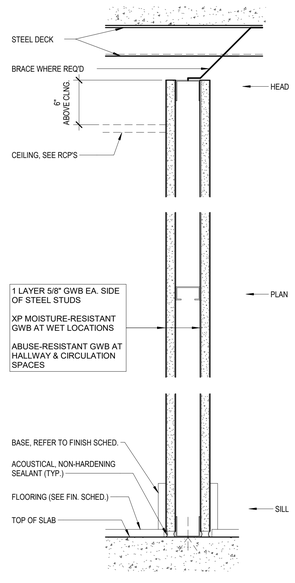
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC#
4AX-X	20" CLEAR INSIDE PLUMBING CHASE	N/A	61
4BX-X	10 1/2" CLEAR INSIDE BRACING FURR OUT	N/A	61

TYPE 3: STEEL STUD SHAFT WALL



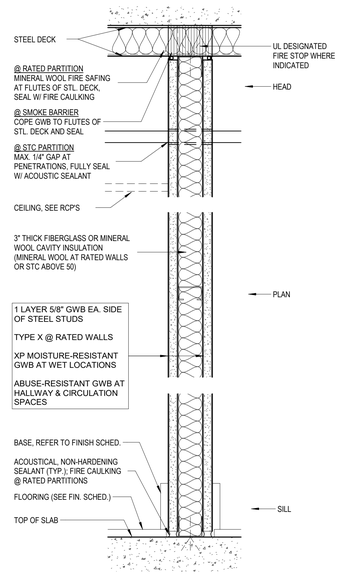
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC#
3AX-1	AS SHOWN	1-HR: U415	

TYPE 2: STEEL STUD PARTITION BELOW DECK



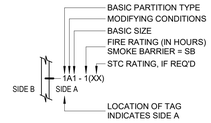
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC#
2AX-X	AS SHOWN	N/A	

TYPE 1: STEEL STUD PARTITION TO DECK



MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC#
1AX-X	AS SHOWN	1-HR: U465	45
1BX-X	AS SHOWN ABOVE, NO INSULATION	1-HR: U465	
1CX-X	(2) LAYERS TYPE-X GWB, ONE SIDE		50
1DX-X	(2) LAYERS TYPE-X GWB, EACH SIDE	2-HR: U411	55
1EX-X	(3) LAYERS TYPE-X GWB, EACH SIDE	3-HR: U419	60

PARTITION TYPE LEGEND



BASIC SIZE:

0: 7/8" x 20 GA. FURRING HAT CHANNEL
1: 1 5/8" x 20 GA. STUD
2: 2 1/2" x 20 GA. STUD
3: 3 5/8" x 20 GA. STUD
4: 4" CONCRETE, MASONRY OR 20 GA. STUD
5: 4" C-H X 1 1/2" DEEP 20 GA. STUD
6: 6" CONCRETE, MASONRY OR 20 GA. STUD
7: 8" CONCRETE, MASONRY OR 20 GA. STUD
8: 5 5/8" x 20 GA. STUD

FIRE RATING:

SB: SMOKE BARRIER
1: 1-HR FIRE BARRIER
2: 2-HR FIRE BARRIER

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01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD, VII
REG. No. 7529
STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

PARTITION TYPES & SCHEDULE

SHEET NO.

G300

SHOWER COMPARTMENTS (SECTION 608)

SHOWER UNIT:
608.6 ADA & 608.6 ANSI

EXCEPTION a fixed shower head mounted at 48" above the shower floor may be used in lieu of the hand held shower head in facilities that are not medical facilities, long term care facilities, transient lodging guest rooms or dwelling units.

THRESHOLDS
608.7 ADA & 608.6 ANSI - Thresholds at roll in type shower compartments shall be 1/2" maximum in height in accordance with Section 303. See Below

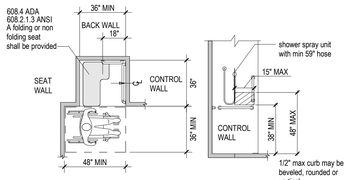
In transfer type shower compartments, thresholds 1/2" maximum in height shall be beveled, rounded or vertical.

303.2 - changes in level of 1/4" maximum in height shall be permitted to be vertical.

303.3 - changes in level greater than 1/4" in height and not more than 1/2" maximum in height shall be beveled with a slope not steeper than 1:2

608.4 ADA
A folding seat shall be provided at required transient lodging guest rooms

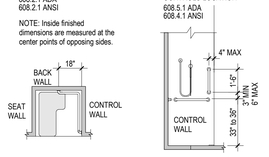
608.4 ADA
608.2.1.3 ANSI
A folding or non folding seat shall be provided



SIZE AND CLEARANCE
608.2.1 ADA
608.2.1 ANSI

NOTE: Inside finished dimensions are measured at the center points of opposing sides.

HAND SHOWER AND CONTROLS LOCATION
608.5.1 ADA
608.4.1 ANSI

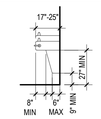


WITH SINGLE PIECE HORIZONTAL GRAB BAR
608.3.1 ADA
608.3.1.3 ANSI

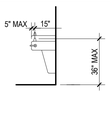
VERTICAL GRAB BAR LOCATION
608.3.1.2 ANSI

TRANSFER TYPE COMPARTMENT

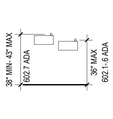
DRINKING FOUNTAINS (SECTION 602)



KNEE AND TOE CLEARANCES
306.2 & 306.3 ADA
306.2 & 306.3 ANSI

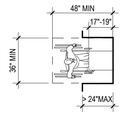


SPOUT LOCATION
602.4 & 602.5 ADA
602.4 & 602.5 ANSI

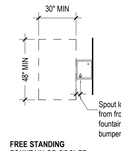


SINGLE FOUNTAIN "HIGH - LOW"
211.2 ADA Exception

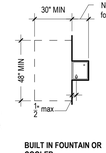
211.2 MINIMUM NUMBER - No fewer than two drinking fountains shall be provided. One drinking fountain shall comply with 602.1 through 602.6 and one drinking fountain shall comply with 602.7.
EXCEPTION: Where a single drinking fountain complies with 602.1 through 602.6 and 602.7, it shall be permitted to be substituted for two separate drinking fountains.



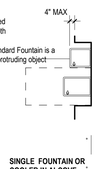
CLEARANCES AND FORWARD APPROACH
305.7 ADA
305.7 ANSI



FREE STANDING FOUNTAIN OR COOLER; OR PARALLEL APPROACH



BUILT IN FOUNTAIN OR COOLER; OR PARALLEL APPROACH



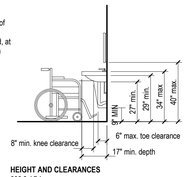
SINGLE FOUNTAIN OR COOLER IN ALCOVE
307 ADA
307 ANSI

LAVATORIES & MIRRORS

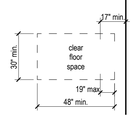
LAVATORIES WITH ENHANCED REACH RANGES:
606.5 ANSI - faucets, soap dispenser controls shall have a reach depth of 11". If automatic, activation to occur within a reach depth of 11". Water and soap flow shall be provided within 11" reach depth. 2009 IBC Section 1109.2.3 When 6 or more lavatories are required, at least one shall comply with 606.5 as well as one that complies with 606.

EXPOSED PIPES and SURFACES:
606.5 ADA & 606.6 ANSI -Water supply and drain lines under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.

MIRRORS:
603.3 ADA & 603.3 ANSI -When mirrors are located above a counter or lavatory the mirrors shall be mounted with the bottom edge of the reflecting surface no higher than 40" above the finish floor. Mirrors not located above a counter or lavatory shall be installed with the bottom edge of the reflecting surface at 35" max above the finish floor.

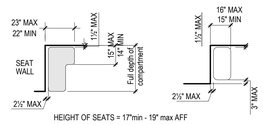


HEIGHT AND CLEARANCES
606.3 ADA
606.3 ANSI



CLEAR FLOOR SPACE
606.2 ADA
606.2 ANSI

SHOWER SEATS

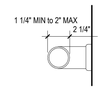


L SHAPED SEAT
610.3.2 ADA
610.3.2 ANSI

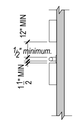
RECTANGULAR SEAT
610.3.1 ADA
610.3.1 ANSI

NOTE: If a seat is provided and it extends over the required minimum clear inside dimension, the seat shall be a folding seat. ANSI 608.4

GRAB BARS (SECTION 609)

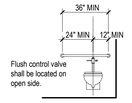


CIRCULAR
609.2.1 ADA
609.2.1 ANSI

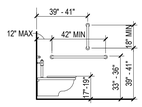


SPACING
609.3 ADA
609.3 ANSI
between the grab bars and shower controls, shower fittings, and other grab bars shall be permitted to be 1

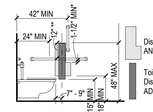
WATER CLOSETS / TOILET STALLS / URINALS



REAR WALL GRAB BARS
604.5.2 ADA
604.5.2 ANSI



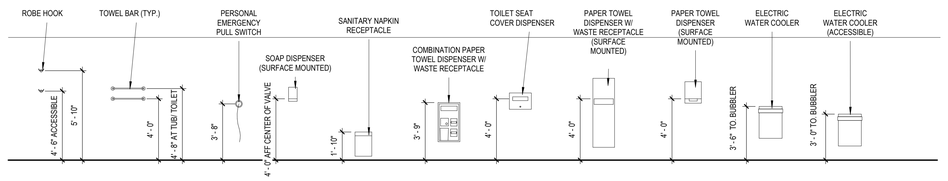
SIDE WALL GRAB BARS
604.5.1 ANSI

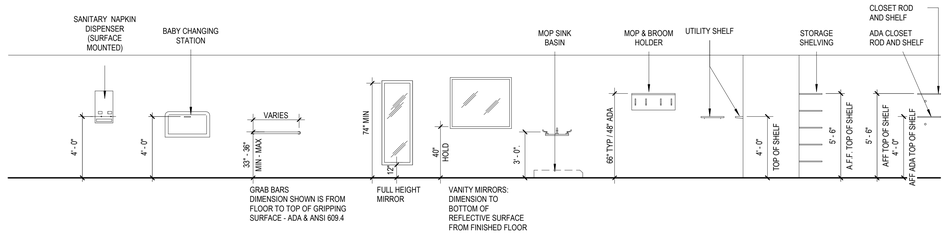


DISPENSER OUTLET LOCATIONS
604.7 & 609.3 ADA
604.7 & 609.3 ANSI

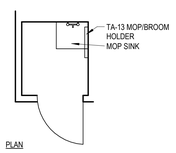
* Areas shown above are for recessed dispensers. Protruding dispenser locations are subject to additional clearances at grab bar as shown.

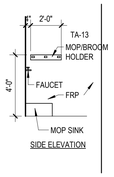
TOILET ACCESSORY MOUNTING HEIGHTS



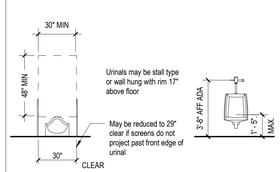


JANITORS CLOSET



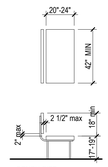


URINALS (SECTION 605)



CLEAR FLOOR SPACE
605.3 ADA
605.3 ANSI

BENCHES (SECTION 903)



BENCH SIZE
903 ADA
903 ANSI

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD JR. REG. No. 7529 STATE OF LOUISIANA REGISTERED ARCHITECT

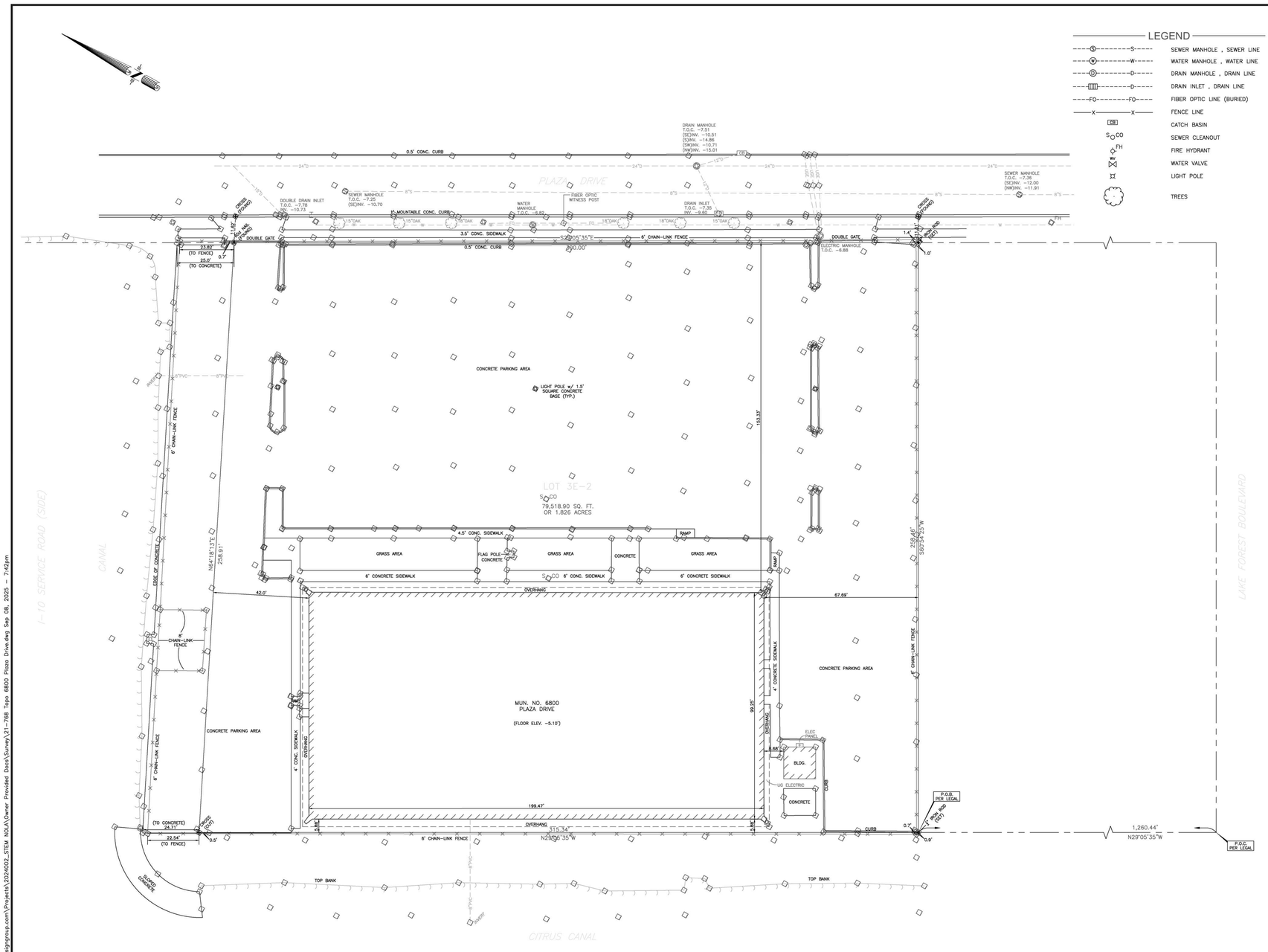
WDG Project No: 2024002

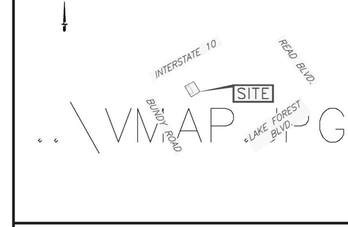
SHEET NAME

TYP. MOUNTING HEIGHTS

SHEET NO.

G301





VICINITY MAP
(NOT TO SCALE)

NOTES:
1) THE SERVITUDES SHOWN ON THIS PLAN ARE LIMITED TO THOSE FURNISHED US AND THERE IS NO REPRESENTATION THAT ALL APPLICABLE SERVITUDES ARE REFLECTED OR SHOWN HEREON. THE SURVEYOR HAS MADE NO TITLE SEARCH OR PUBLIC RECORD SEARCH IN COMPILING THE DATA FOR THIS PLAN.

2) THE PERIMETER SHOWN SHALL NOT CONSTITUTE A LEGAL OPINION OF TITLE, AND SHALL NOT BE RELIED UPON FOR THAT PURPOSE. THERE IS NO WARRANTY THAT IT CONFORMS TO THE LEGAL TITLE, AND WAS MADE SOLELY ACCORDING TO THE INFORMATION PROVIDED THE SURVEYOR.

3) CERTAIN FEATURES, I.E., FENCES, WALLS, ETC. MAY BE EXAGGERATED IN SCALE FOR CLARITY. DIMENSIONS SHOW ACTUAL LOCATION.

4) ALL FENCE DIMENSIONS ARE MEASURED FROM FACE OF FENCE. FENCE IS ON THE PROPERTY LINE IF NO DIMENSION IS GIVEN.

5) REFERENCES: LEGAL DESCRIPTION.

6) NORTH BASED ON LOUISIANA STATE PLANE COORDINATES, SOUTH ZONE.

7) MUNICIPAL NUMBER: 6800 PLAZA DRIVE, NEW ORLEANS, LA.

8) THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HEREON HAVE BEEN DETERMINED FROM DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR EXTRACTED FROM RECORDS MADE AVAILABLE TO US BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF LOCATIONS ARE SHOWN. THE ACTUAL NONVISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATION PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON, INCLUDING PRIOR TO EXCAVATION AND DIGGING.

9) DATUM: NAVD '88.

10) FLOOD ZONE: AE, EL. -7.0' AS PER MAP / PANEL NO. 22071C-0136 EFFECTIVE 09/30/2016.

SURVEY MADE AT THE REQUEST OF CENTER FOR INNOVATIVE TRAINING OF YOUTH d/b/a STEM NOLA.

12/28/2021

THE PROPERTY BOUNDARY SURVEY RECORDED HEREON WAS MADE ON THE GROUND UNDER MY DIRECT SUPERVISION, AND IS IN ACCORDANCE WITH APPLICABLE STANDARDS OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS AS STIPULATED IN LOUISIANA ADMINISTRATIVE CODE TITLE 46:LXI, CHAPTER 29 FOR A CLASS "C" SURVEY.

BY _____
RICHARD T. DADING, P.L.S.
LA REGISTRATION NO. 4399

TOPOGRAPHIC AND BOUNDARY SURVEY OF
LOT 3E-2, SECTION 23
LaKRATT TRACT
(FORMERLY THE NEW ORLEANS LAKESHORE LAND COMPANY SUBDIVISION)
THIRD MUNICIPAL DISTRICT
CITY OF NEW ORLEANS
ORLEANS PARISH, LOUISIANA

Z:\Library\Logo and letterhead\survey plat logo.jpg

SCALE:	1" = 20'	DRAWN BY:	EWP
DATE:	12/28/2021	CHECKED BY:	CAM
JOB NO.	21-768	SHEET NO.	1 OF 1

FOR REFERENCE ONLY

C:\Users\User\OneDrive - willarddesigngroup.com\Projects\2024002_STEM NOLA\Owner Provided Docs\Survey\21-768 Topo 6800 Plaza Drive.dwg Sep 08, 2025 - 7:42pm

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

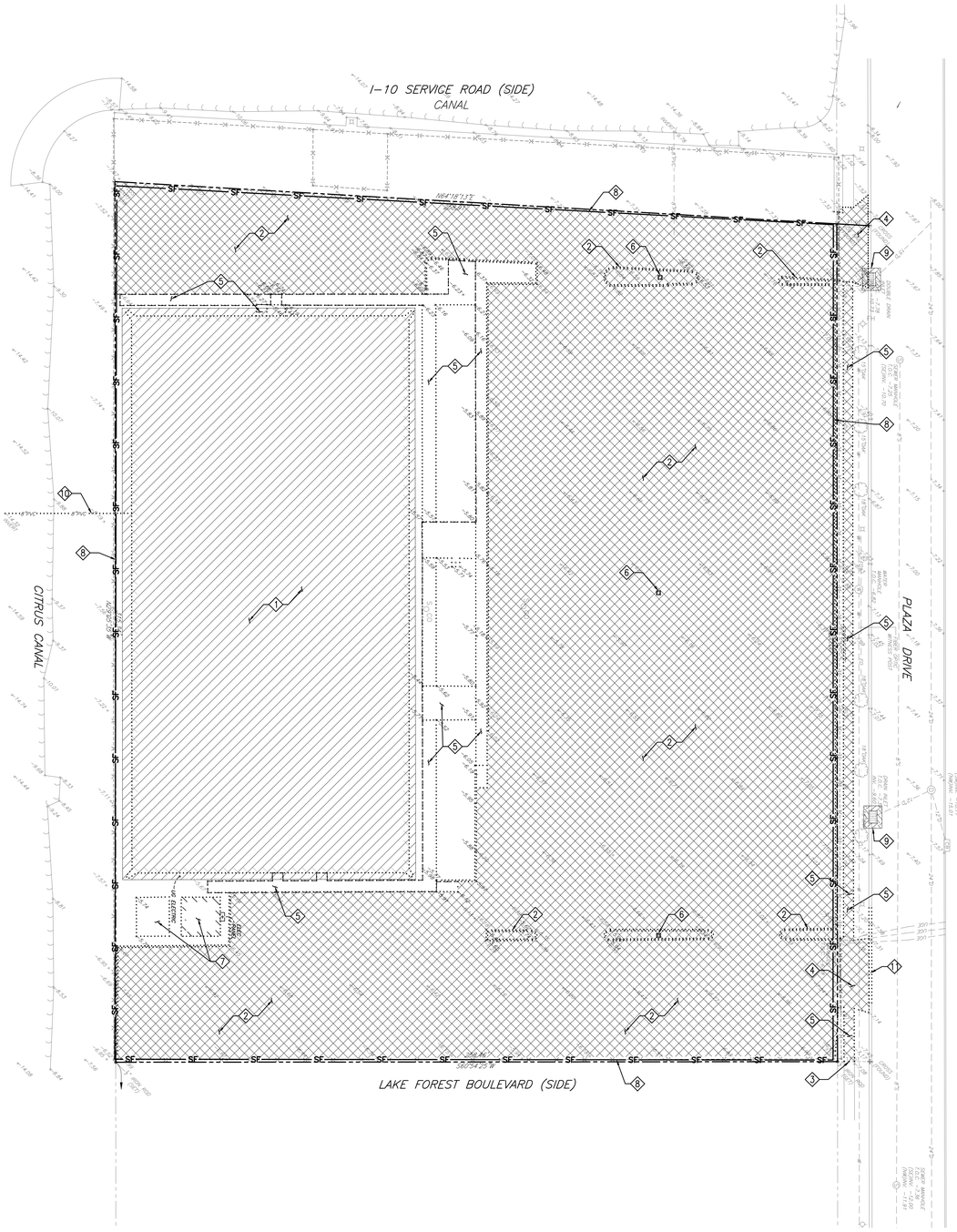
REVISIONS

DOMINIC A. WILLARD #28 REG. No. 7529 STATE OF LOUISIANA REGISTERED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
SITE SURVEY

SHEET NO. V001



DEMOLITION NOTES:

1. CONTRACTOR SHALL INSPECT PARKING LOT, ROADWAYS ADJACENT TO THE CONSTRUCTION SITE DAILY. SWEEP OR VACUUM TO REMOVE VISIBLE ACCUMULATED SEDIMENT. REMOVE ALL SEDIMENT DEPOSITED ON ROADWAY WITHIN 24 HOURS.
2. ALL DEMOLISHED, REMOVED MATERIAL AND DEBRIS SHALL BE HAULED OFF THE SITE AND DISPOSED OF IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS, REQUIREMENTS AND ORDINANCES.
3. EXISTING SIDEWALK AND PAVING TO BE REMOVED SHALL BE SCHEDULED AND COORDINATED WITH NEW PAVING. THIS WILL MINIMIZE ANY CONSTRUCTION INCONVENIENCE TO PEDESTRIAN AND VEHICULAR TRAFFIC.
4. CASTING OF ALL EXISTING STRUCTURES INVOLVED IN THE SCOPE OF CIVIL WORK SHALL BE FIELD ADJUSTED, CASTING TO BE FLUSHED WITH NEW PAVING OR FINISHED GRADE.
5. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN ALL PERIMETER CATCH BASINS AND DRAIN INLETS AND CONNECTING DRAIN LINES TO MAINTAIN POSITIVE DRAINAGE FLOW AND RESTORE SERVICES.
6. IT IS CONTRACTOR'S RESPONSIBILITY AND MEANS & METHOD TO PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM FLOWING INTO EXCAVATIONS AND FROM FLOODING THE PROJECT SITE AND SURROUNDING AREAS. SEE EARTHWORK SPECIFICATION 312000 FOR DEWATERING.

DEMOLITION PLAN KEY NOTES:

1. EXTENTS OF PREVIOUSLY DEMOLISHED BUILDING (SHOWN HEREON FOR REFERENCE PURPOSES ONLY). CUT OFF PILES 3 FOOT BELOW FINISHED GRADE OF NEW PAVING. COORDINATE WITH GRADING PLAN.
2. EXISTING CONCRETE PAVING AND CURBED ISLANDS TO BE DEMOLISHED AND REMOVED FROM SITE.
3. SAWCUT EXIST. PAVING TO MAINTAIN STRAIGHT EDGE – TYP.
4. EXISTING CONCRETE DRIVEWAY ENTRANCE TO BE DEMOLISHED AND REMOVED.
5. DEMOLISH AND REMOVE EXISTING CONCRETE SIDEWALK.
6. DEMOLISH AND REMOVE ELECTRICAL LIGHT POLE SUPPORTS AND APPURTENANCES, SEE MEP.
7. EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND/OR RELOCATED, SEE ARCH.
8. SEDIMENT (SILT) FENCE. SEE 2/C002 AND 3/C002 – TYP. LOCATION OF SILT FENCE SHOWN HEREON FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL ADJUST SILT FENCE AS REQUIRED BASED ON CONSTRUCTION ACTIVITIES, SEQUENCING AND METHODOLOGIES.
9. PROVIDE SEDIMENT CONTROL AT EXISTING CATCH BASINS TO PREVENT DIRT, DEBRIS, SEDIMENT ENTERING INTO EXISTING SUBSURFACE DRAINAGE SYSTEM. SEE 5/C002 – TYP.
10. EXISTING DRAIN LINE TO BE REMOVED AND REPLACED WITH NEW DRAIN LINE.
11. SECTION OF EXIST. MOUNTABLE CURB TO BE DEMOLISHED AND REPLACED FOR INSTALLATION OF NEW HEAVY-DUTY DRIVEWAY WITH MOUNTABLE CURB PER CITY OF NEW ORLEANS DPW STANDARD DRAWINGS AND REQUIREMENTS.

DEMOLITION, EROSION AND SEDIMENT CONTROL PLAN LEGEND

- EXISTING ITEMS TO BE REMOVED
- SF — SEDIMENT (SILT) FENCE, SEE 2/C002 AND 3/C002
- EXTENTS OF PREVIOUSLY DEMOLISHED BUILDING, SEE PLAN KEY NOTE #1
- EXISTING CONCRETE PAVEMENT TO BE DEMOLISHED AND REMOVED
- PROVIDE SEDIMENT CONTROL AT EXISTING DRAIN INLETS, SEE 5/C002

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 C001 DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN
1"=20'

811 Know what's below. Call before you dig.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CITY REQUIREMENTS. I AM GENERALLY ADMINISTERING THE WORK.

ENGINEER _____
REG. NO. _____

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. No. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

WDG Project No: 2024002

SHEET NAME

DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN

SHEET NO. C001

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

1 C0.02 EROSION AND SEDIMENT CONTROL PLAN NOTES

GENERAL

1. THE PURPOSE OF THIS EROSION AND SEDIMENT CONTROL PLAN (ESCP) IS TO COMMUNICATE A REASONABLE STARTING POINT FOR TENDERING AND DEVELOPMENT OF A SITE SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE SWPPP AND ALL DRAINAGE, EROSION AND SEDIMENT CONTROL (ESC) MEASURES TAKEN. THE INFORMATION SHOWN HEREIN IS PROVIDED BASED ON MMI'S EXPERIENCE AND IS FOR THE CONTRACTOR'S CONSIDERATION ONLY. THIS ESCP IS NOT INTENDED TO BE COMPLETE OR COMPREHENSIVE.
2. THE SWPPP SHALL BE DEVELOPED BY THE CONTRACTOR TO SUPPORT THE ACTUAL CONSTRUCTION SEQUENCING, CONSTRUCTION METHODOLOGIES, LOCAL SITE CONDITIONS, AND DETAIL ACTUAL REQUIRED ESC MEASURES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE ADEQUACY OF THE ACTUAL ESC MEASURES AND ACHIEVING LEGAL REQUIREMENTS.
4. ADDITIONAL ESC MEASURES MUST BE IMPLEMENTED IN THE EVENT THAT SITE CONDITIONS CHANGE SIGNIFICANTLY FROM THOSE ORIGINALLY CONSIDERED.
5. WHERE THERE IS A HIGH PROBABILITY THAT SERIOUS OR MATERIAL ENVIRONMENTAL HARM MAY OCCUR AS A RESULT OF SEDIMENT LEAVING THE SITE, APPROPRIATE ADDITIONAL ESC MEASURES MUST BE IMPLEMENTED SUCH THAT ALL REASONABLE AND PRACTICABLE MEASURES ARE TAKEN TO PREVENT OR MINIMIZE SUCH HARM.
6. NO ESC MEASURES SHALL BE INSTALLED OR CONSTRUCTED ON ADJACENT PROPERTIES.
7. ALL ON-SITE STAFF INCLUDING SUB-CONTRACTORS SHALL BE MADE AWARE OF THEIR SWPPP RESPONSIBILITIES.

SITE ACCESS

1. PRIOR TO THE COMMENCEMENT OF SITE WORKS, THE LOCATION OF THE SITE ACCESS POINT(S) SHALL BE RESTRICTED TO THE MINIMUM PRACTICAL NUMBER OF LOCATIONS.
2. THE SITE ACCESS POINT(S) MUST BE APPROPRIATELY MANAGED TO MINIMIZE THE RISK OF SEDIMENT BEING TRACKED ONTO SEALED, PUBLIC ROADWAYS.
3. STORMWATER RUNOFF FROM ACCESS ROADS AND THE SITE ACCESS POINT(S) MUST DRAIN TO AN APPROPRIATE SEDIMENT CONTROL DEVICE.

SITE MANAGEMENT

1. ALL OFFICE FACILITIES AND OPERATIONAL ACTIVITIES MUST BE LOCATED SUCH THAT ANY LIQUID EFFLUENT CAN BE TOTALLY CONTAINED AND TREATED WITHIN THE SITE.
2. THE CONSTRUCTION SCHEDULE MUST AIM TO MINIMIZE THE DURATION THAT ANY AND ALL AREAS OF SOIL ARE EXPOSED TO THE EROSIVE EFFECTS OF WIND, RAIN AND SURFACE WATER.
3. ADEQUATE WASTE COLLECTION BINS MUST BE PROVIDED ON-SITE AND MAINTAINED SUCH THAT POTENTIAL AND ACTUAL ENVIRONMENTAL HARM RESULTING FROM SUCH MATERIAL WASTE IS MINIMIZED.
4. CONCRETE WASTE AND CHEMICAL PRODUCTS, INCLUDING PETROLEUM AND OIL-BASED PRODUCTS, MUST BE PREVENTED FROM ENTERING ANY STORMWATER SYSTEM.
5. ALL FLAMMABLE AND COMBUSTIBLE LIQUIDS, INCLUDING ALL LIQUID CHEMICALS IF SUCH CHEMICALS COULD POTENTIALLY BE WASHED OR DISCHARGED FROM THE SITE, ARE STORED AND HANDLED ON-SITE IN ACCORDANCE WITH RELEVANT STANDARDS.
6. SITE SPOIL MUST BE LAWFULLY DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.

DRAINAGE CONTROL

1. ALL DRAINAGE CONTROL MEASURES MUST BE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE LADOTD EROSION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS.
2. DURING THE CONSTRUCTION PERIOD, ALL REASONABLE AND PRACTICABLE MEASURES MUST BE IMPLEMENTED TO CONTROL FLOW VELOCITIES IN SUCH A MANNER THAN PREVENTS SOIL EROSION ALONG DRAINAGE PATHS AND AT THE ENTRANCE AND EXIT OF ALL DRAINS AND DRAINAGE PIPES.
3. TO THE MAXIMUM DEGREE REASONABLE AND PRACTICABLE, ALL WATERS DISCHARGED DURING THE CONSTRUCTION PHASE MUST DISCHARGE ONTO STABLE LAND, IN A NON-EROSIVE MANNER, AND AT A LEGAL POINT OF DISCHARGE.
4. DURING THE CONSTRUCTION PERIOD, ROOF WATER MUST BE MANAGED IN A MANNER THAT MINIMIZES SOIL EROSION THROUGHOUT THE SITE..

SEDIMENT CONTROL

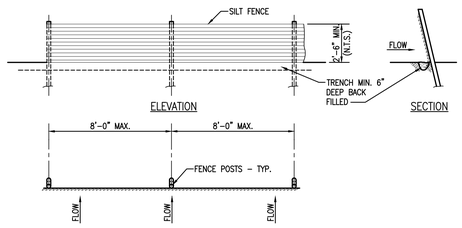
1. ALL SEDIMENT CONTROL MEASURES MUST BE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE LADOTD EROSION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS.
2. OPTIMUM BENEFIT MUST BE MADE OF EVERY OPPORTUNITY TO TRAP SEDIMENT WITHIN THE WORK SITE, AND AS CLOSE AS PRACTICABLE TO ITS SOURCE.
3. SEDIMENT TRAPS MUST BE INSTALLED AND OPERATED TO COLLECT AND RETAIN SEDIMENT.
4. ALL REASONABLE AND PRACTICABLE MEASURES MUST BE TAKEN TO PREVENT, OR AT LEAST MINIMIZE, THE RELEASE OF SEDIMENT FROM THE SITE.
5. SEDIMENT CONTROL DEVICES MUST BE DE-SILTED, MAINTAINED THROUGHOUT THE DURATION OF PROJECT.

SITE MAINTENANCE

1. ALL ESC MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES DURING THEIR OPERATIONAL LIVES.
2. ALL TEMPORARY ESC MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE FULLY OPERATIONAL AND MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES DURING THE MAINTENANCE PERIOD.
3. ALL TEMPORARY ESC MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE REMOVED AFTER ACHIEVING A SATISFACTORY "OFF-MAINTENANCE INSPECTION".
4. ALL DRAINAGE AND ESC MEASURES MUST BE INSPECTED:
   - AT LEAST DAILY (WHEN WORK IS OCCURRING ON-SITE);
   - AT LEAST WEEKLY (WHEN WORK IS NOT OCCURRING ON-SITE);
   - WITHIN 24 HOURS OF EXPECTED RAINFALL; AND
   - WITHIN 18 HOURS OF A RAINFALL EVENT OF SUFFICIENT INTENSITY AND DURATION TO CAUSE RUNOFF ON-SITE.
5. WASHING/FLUSHING OF ROADWAYS MUST ONLY OCCUR WHERE SWEEPING HAS FAILED TO REMOVE SUFFICIENT SEDIMENT AND THERE IS A COMPELLING NEED TO REMOVE THE REMAINING SEDIMENT (E.G. FOR SAFETY REASONS). IN SUCH CIRCUMSTANCES, ALL REASONABLE AND PRACTICABLE SEDIMENT CONTROL MEASURES MUST BE USED TO PREVENT, OR AT LEAST MINIMIZE, THE RELEASE OF SEDIMENT INTO RECEIVING WATERS.
6. SEDIMENT REMOVED FROM SEDIMENT TRAPS AND PLACES OF SEDIMENT DEPOSITION MUST BE DISPOSED OF IN A LAWFUL MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.

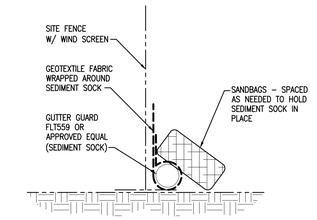
RELATED DOCUMENTS

1. THE CONTRACTOR IS TO HAVE AT LEAST ONE APPROVED COPY OF SWPPP ON-SITE.

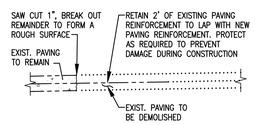


NOTES:
1. SILT FENCES SHALL BE INSTALLED AND MAINTAINED BY THE TRADE CONTRACTOR AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
2. ACCUMULATED SILT/SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6" AND DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO FURTHER SILTATION.
3. MATERIALS:
   A. POSTS SHALL BE STEEL OR WOODEN FENCE POSTS.
   B. SILT FENCE SHALL BE BURLAP WEIGHING 7-1/2 OUNCES PER SQUARE YARD, APPROVED JUTE FABRIC OR GEOTEXTILE FABRIC. SILT FENCE SHALL BE SECURELY FASTENED TO EACH POST OR TO WOVEN WIRE WHICH IN TURN SHALL BE FASTENED TO EACH POST.
4. SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
5. TRADE CONTRACTOR SHALL PROVIDE A REMOVABLE SECTION FOR SITE ACCESS.
6. SILT FENCE LOCATIONS SHALL BE AS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE EOR.
7. SILT FENCE LOCATIONS SHOWN ON PLAN ARE INDICATIVE AND ARE NOT INTENDED TO BE COMPLETE OR COMPREHENSIVE.

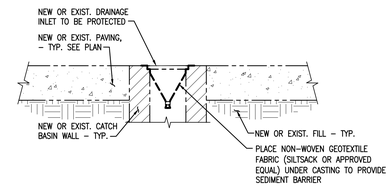
2 C002 DETAIL - SILT (SEDIMENT) FENCE
1/4"=1'-0"



3 C002 DETAIL - SEDIMENT CONTROL AT CONSTRUCTION /SITE FENCE (IF REQUIRED)
1/2"=1'-0"



4 C002 DETAIL - SAWCUT
3/4"=1'-0"



5 C002 DETAIL - SEDIMENT CONTROL AT DRAIN INLET
N.T.S.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
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01/19/2026	PERMIT SET

REVISIONS

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ENGINEER _____
REG. NO.

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

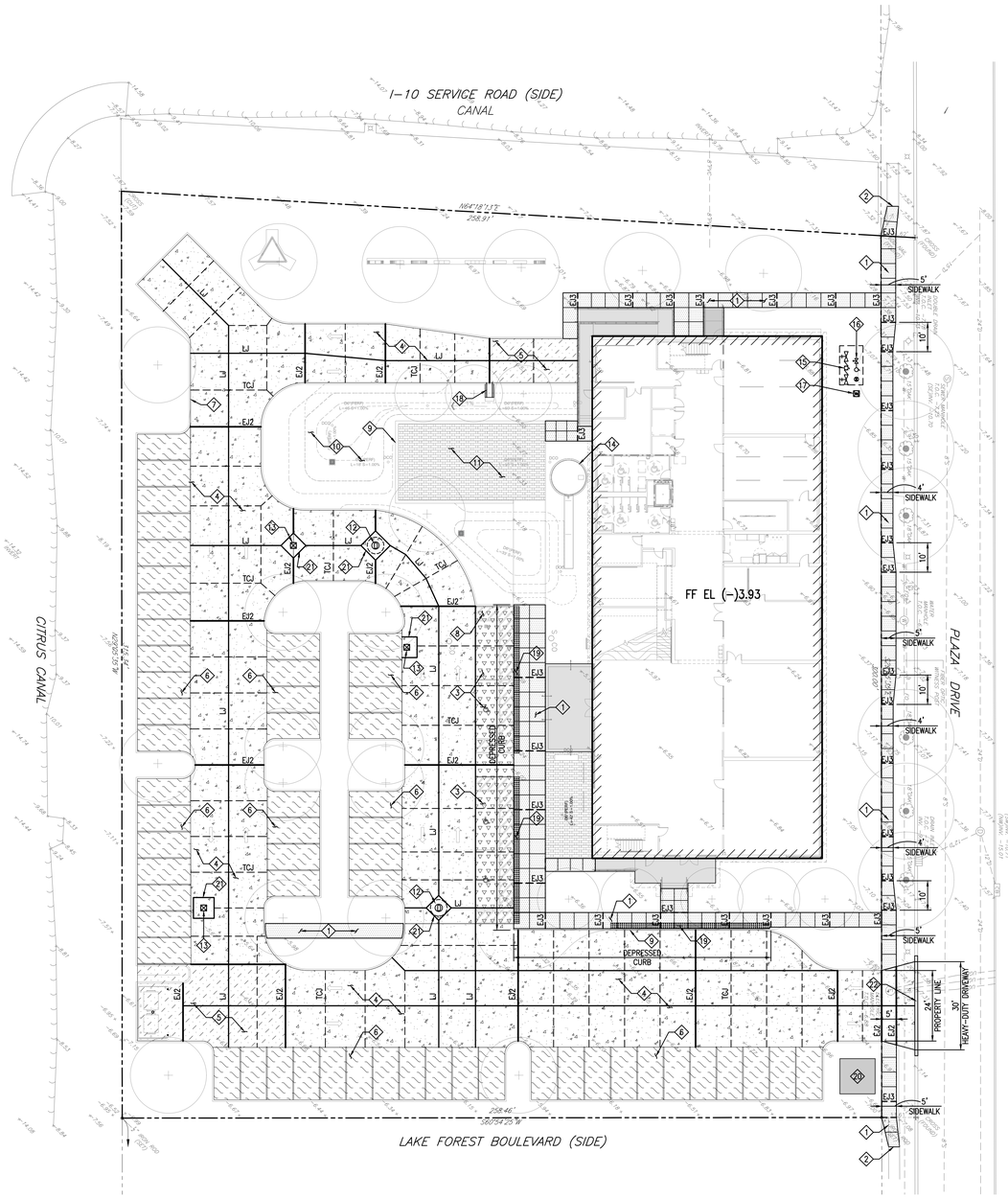
WDG Project No: 2024002

SHEET NAME

DEMOLITION AND EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

SHEET NO. C002

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001



SITE PLAN KEY NOTES:

1. CONCRETE SIDEWALK PAVING – TYP., SEE 2/C200.
2. TIE-IN NEW SIDEWALK PAVING INTO EXISTING SIDEWALK PAVEMENT, SEE 3/C200.
3. LIGHT-DUTY CONCRETE PAVING, SEE 4/C200.
4. HEAVY-DUTY CONCRETE PAVING, SEE 4/C200.
5. SUPER HEAVY-DUTY CONCRETE PAVING, SEE 4/C200.
6. PERMEABLE PAVING – TRUEGRID PRO-PLUS HEAVY DUTY PAVERS, WITH PARKING DELINEATORS. SEE C201.
7. CONCRETE VERTICAL CURB, SEE 4/C200.
8. PARKING STRIPING – TYP., SEE 5/C201.
9. DEPRESSED CONCRETE CURB.
10. BIORETENTION RAIN GARDEN, SEE LANDSCAPE.
11. PERMEABLE CONCRETE UNIT PAVERS, SEE LANDSCAPE.
12. DRAIN MANHOLE, SEE C102.
13. DRAIN INLET, SEE C102.
14. ABOVE GROUND CISTERN TANK WITH RUNNEL, SEE LANDSCAPE.
15. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTER FOR FIRE WATER, SEE C103.
16. REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER (LEAD FREE) FOR DOMESTIC WATER, SEE C103.
17. S&WB SUPPLIED WATER METER FOR DOMESTIC WATER, SEE C103.
18. CONCRETE FLUME WITH 6" VERTICAL CURB, SEE C102.
19. DETECTABLE WARNING SURFACE, SEE 10/C200.
20. TRANSFORMER PAD. SEE STRUCTURAL DRAWING 13/S001.
21. LONGITUDINAL JOINT AROUND DRAIN STRUCTURE WITH 2-#4 DIAGONAL REBAR AT EACH CORNER – TYP.
22. SECTION OF EXISTING MOUNTABLE CURB TO BE DEMOLISHED AND REPLACED FOR INSTALLATION OF NEW HEAVY-DUTY DRIVEWAY WITH MOUNTABLE CURB PER CITY OF NEW ORLEANS DPW STANDARD DRAWINGS AND REQUIREMENTS.

PAVING PLAN LEGEND

- PORTLAND CEMENT CONCRETE SIDEWALK – 4" THK. SEE 2/C200.
- TRUEGRID PAVERS – PARKING SEE 1/C201
- PORTLAND CEMENT CONCRETE ADA PARKING – 6" THK. SEE 4/C200.
- HEAVY DUTY PORTLAND CEMENT CONCRETE DUMPSTER PAD – 10" THK., SEE 4/C200.
- HEAVY DUTY PORTLAND CEMENT CONCRETE DRIVEWAY AND ENTRANCE – 8" THK. SEE 4/C200.
- DETECTABLE WARNING SURFACE. SEE .

JOINTING LEGEND

- EJ1 — PROVIDE ½" PREFORMED, NON-EXTRUDING TYPE EXPANSION JOINT FILLER MATERIAL WITH JOINT SEALANT ON TOP (W/WIDTH/DEPTH EQUAL) AT THE INTERFACE OF STRUCTURAL PAVING/BUILDING AND SITE PAVING – TYP.
- EJ2 — DOWELED EXPANSION JOINT (EJ2) – SEE 9/C200
- EJ3 — ½" SIDEWALK EXPANSION JOINT SEE 2/C200 – TYP. PROVIDE TOOLED JOINT FOR SIDEWALK PAVING. SPACING SHALL NOT TO EXCEED 5'
- LJ — KEYED TIED LONGITUDINAL JOINT (LJ) – SEE 9/C200
- TCJ — TRANSVERSE CONTROL (SAW-CUT) JOINT (TCJ) – SEE 9/C200 SPACING SHALL NOT EXCEED 15'

PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 / C100 SITE AND PAVING PLAN
1"=20'

WILLARD DESIGN GROUP
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ENGINEER — REG. NO.

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

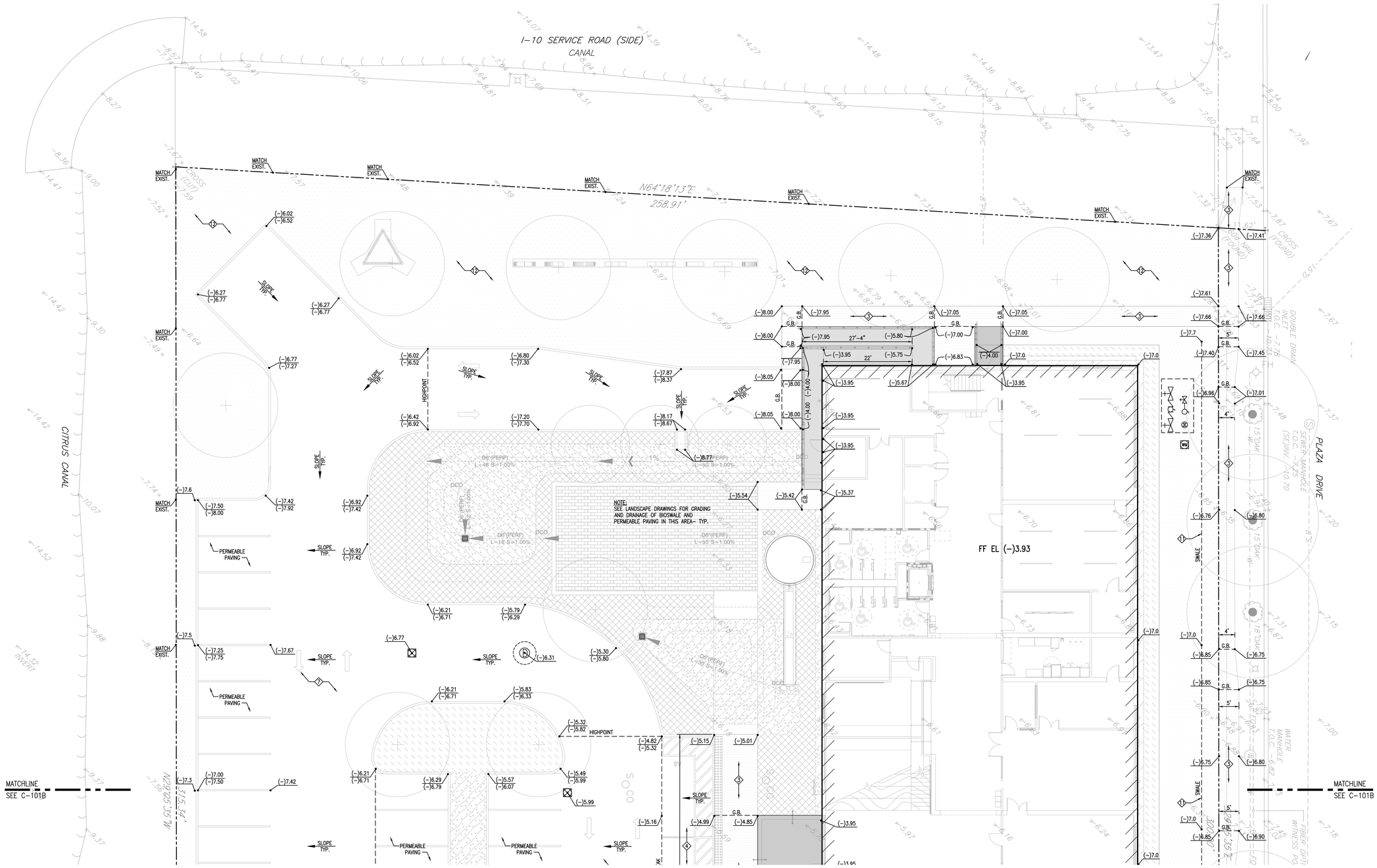
WDG Project No: 2024002

SHEET NAME

SITE AND PAVING PLAN

SHEET NO. C100

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001



PLAN NOTES: UNLESS NOTED OTHERWISE:
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2. ▬ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

10 5 0 10 20
SCALE: 1" = 10'

1 / C101A PART. GRADING PLAN 1"=10'

GRADING PLAN NOTES:
1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES PRIOR TO CONSTRUCTION. NOTIFY A/E IMMEDIATELY IF ANY GRADE CONFLICT IS ENCOUNTERED WHEN MATCHING OR TIE-INTO EXISTING GRADES.
2. CONTRACTOR SHALL NOTIFY A/E IMMEDIATELY IF ANY CONFLICT OR DISCREPANCY IS IDENTIFIED WITH NEW FINISHED GRADES.
3. PAVEMENT AND SIDEWALK RUNNING SLOPE AND CROSS SLOPE SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND DPW STANDARDS. RUNNING SLOPE NOT TO EXCEED 1 IN 20 (5%) AND CROSS SLOPE NOT TO EXCEED 1 IN 50 (2%).
4. PAVEMENT SLOPE OF HANDICAP PARKING SPACES SHALL NOT EXCEED 2% IN ALL DIRECTIONS AND SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
5. PAVEMENT SLOPE OF ALL ADA ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE MINIMUM OF 5' LANDING AT THE DOORS, ADA CURB RAMPS AND PEDESTRIAN FENCE GATES IN ACCORDANCE WITH ADA REQUIREMENTS. SLOPE FOR LANDING SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN. SLOPE NOT TO EXCEED 1 IN 50 (2%) IN ALL DIRECTIONS.
7. SLOPE PAVING UNIFORMLY TOWARDS PERMEABLE PAVING AS NOTED ON PLANS. ENSURE POSITIVE SLOPE AND DRAINAGE IS MAINTAINED. NOTIFY A/E IF ANY DISCREPANCY WITH FINISHED GRADES.
8. HEIGHT OF CURB VARIES.
9. DEPRESSED CURB FLUSH/LEVEL WITH PARKING PAVING.
10. PROVIDE 5'-0" TRANSITION FROM VERTICAL CURB (HEIGHT VARIES) TO ZERO (0") CURB WHERE CURB MEETS SIDEWALK PAVING IN THE RIGHT-OF-WAY.
11. CUT-IN SWALE. REGRADE GRASSY AREA UNIFORMLY TOWARDS SWALE.
12. RE-GRADE AND SLOPE OPEN AREA TO MATCH EXISTING GRADE. SLOPE UNIFORMLY (CONSISTENT SLOPE) – 4(H):1(V) MAX. SLOPE.
13. CASTING OR GRATE ELEVATION OF ALL EXISTING STRUCTURES INVOLVED IN THE SCOPE OF CIVIL WORK TO BE FIELD ADJUSTED, TOP CASTING SHALL BE FLUSHED WITH NEW PAVING OR FINISHED GRADE OF GRASSY AREAS.
14. STREET REPAIRS AND NEW PAVING IN THE RIGHT-OF-WAY SHALL BE IN COMPLIANCE AND REQUIREMENTS WITH CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS.
15. PROVIDE DRAINAGE STRUCTURES AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD AND/OR THE LOUISIANA DOTD.

WILLARD DESIGN GROUP
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PERMIT SET

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ENGINEER

REG. NO.

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

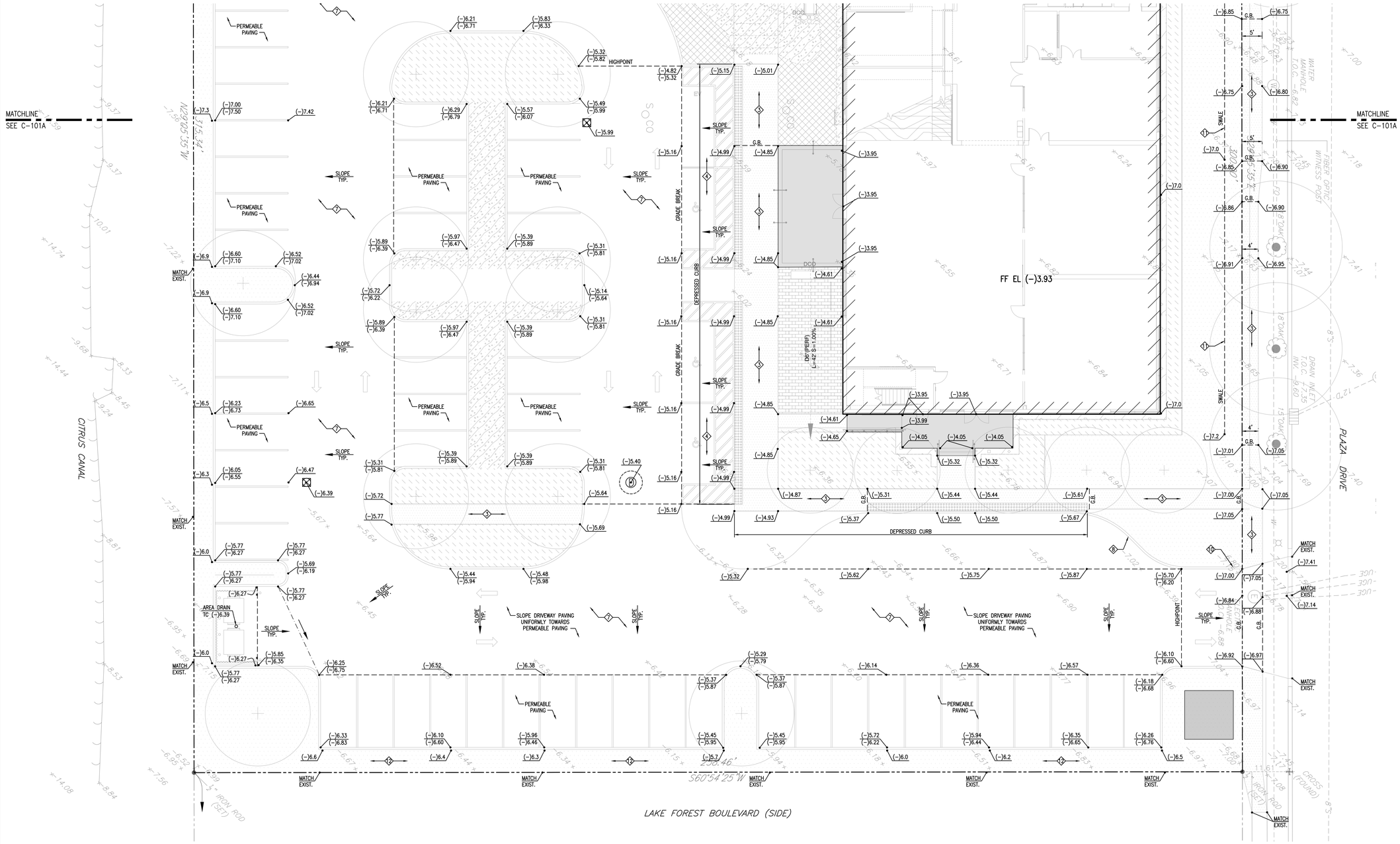
WDG Project No: 2024002

SHEET NAME

PART. GRADING PLAN

SHEET NO. C101A

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001



PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

10 5 0 10 20
SCALE: 1" = 10'

1 C101B PART. GRADING PLAN 1"=10'

GRADING PLAN NOTES:
1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES PRIOR TO CONSTRUCTION. NOTIFY A/E IMMEDIATELY IF ANY GRADE CONFLICT IS ENCOUNTERED WHEN MATCHING OR TIE-INTO EXISTING GRADES.
2. CONTRACTOR SHALL NOTIFY A/E IMMEDIATELY IF ANY CONFLICT OR DISCREPANCY IS IDENTIFIED WITH NEW FINISHED GRADES.
3. PAVEMENT AND SIDEWALK RUNNING SLOPE AND CROSS SLOPE SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND DPW STANDARDS. RUNNING SLOPE NOT TO EXCEED 1 IN 20 (5%) AND CROSS SLOPE NOT TO EXCEED 1 IN 50 (2%).
4. PAVEMENT SLOPE OF HANDICAP PARKING SPACES SHALL NOT EXCEED 2% IN ALL DIRECTIONS AND SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
5. PAVEMENT SLOPE OF ALL ADA ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE MINIMUM OF 5' LANDING AT THE DOORS, ADA CURB RAMPS AND PEDESTRIAN FENCE GATES IN ACCORDANCE WITH ADA REQUIREMENTS. SLOPE FOR LANDING SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN. SLOPE NOT TO EXCEED 1 IN 50 (2%) IN ALL DIRECTIONS.
7. SLOPE PAVING UNIFORMLY TOWARDS PERMEABLE PAVING AS NOTED ON PLANS. ENSURE POSITIVE SLOPE AND DRAINAGE IS MAINTAINED. NOTIFY A/E IF ANY DISCREPANCY WITH FINISHED GRADES.
8. HEIGHT OF CURB VARIES.
9. DEPRESSED CURB FLUSH/LEVEL WITH PARKING PAVING.
10. PROVIDE 5'-0" TRANSITION FROM VERTICAL CURB (HEIGHT VARIES) TO ZERO (0") CURB WHERE CURB MEETS SIDEWALK PAVING IN THE RIGHT-OF-WAY.
11. CUT-IN SWALE. REGRADE GRASSY AREA UNIFORMLY TOWARDS SWALE.
12. RE-GRADE AND SLOPE OPEN AREA TO MATCH EXISTING GRADE. SLOPE UNIFORMLY (CONSISTENT SLOPE) – 4(H):1(V) MAX. SLOPE.
13. CASTING OR GRATE ELEVATION OF ALL EXISTING STRUCTURES INVOLVED IN THE SCOPE OF CIVIL WORK TO BE FIELD ADJUSTED, TOP CASTING SHALL BE FLUSHED WITH NEW PAVING OR FINISHED GRADE OF GRASSY AREAS.
14. STREET REPAIRS AND NEW PAVING IN THE RIGHT-OF-WAY SHALL BE IN COMPLIANCE AND REQUIREMENTS WITH CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS.
15. PROVIDE DRAINAGE STRUCTURES AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD AND/OR THE LOUISIANA DOTD.

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REG. NO. 28228
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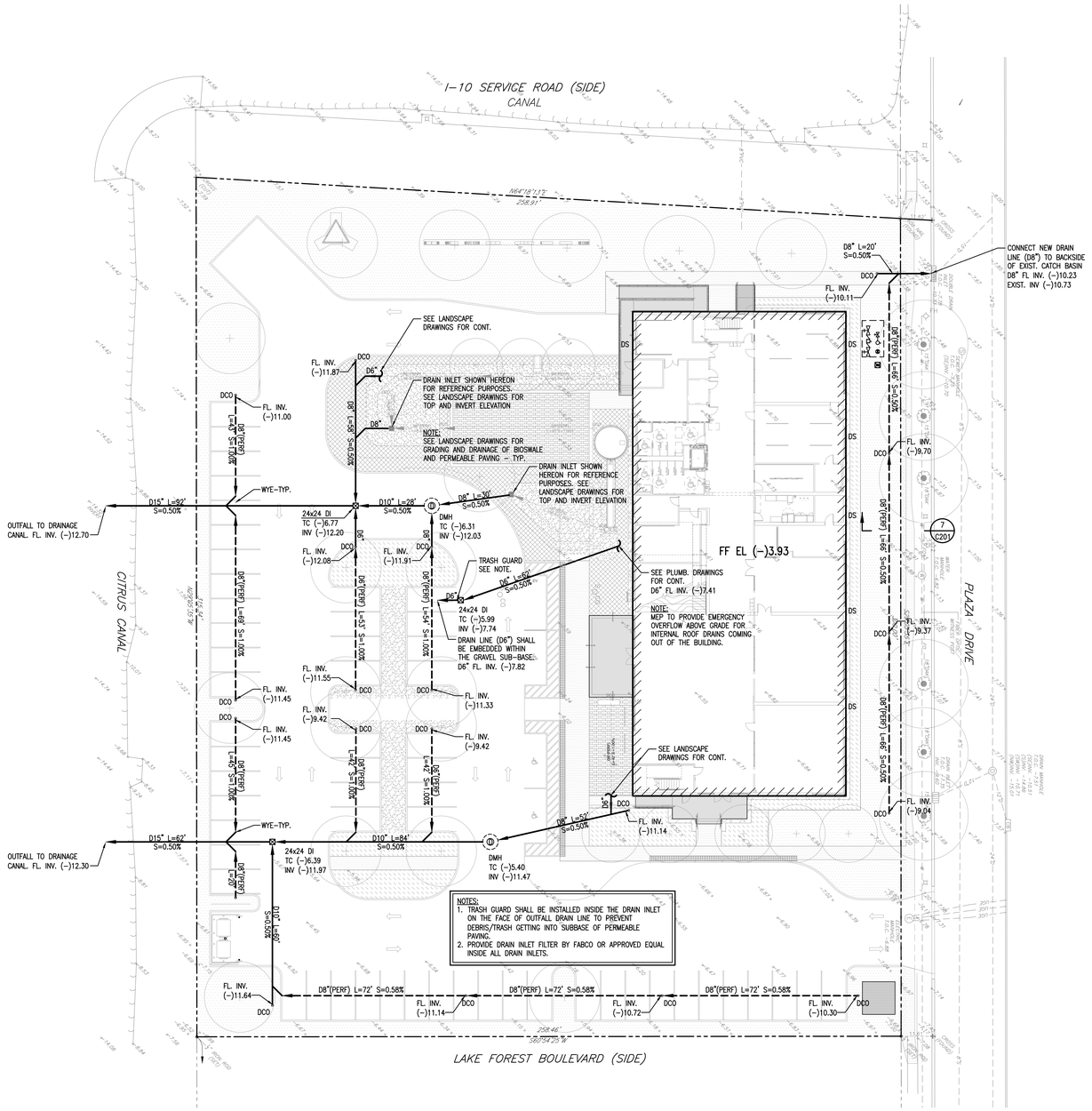
01-13-2026

WDG Project No: 2024002

SHEET NAME
PART. GRADING PLAN

SHEET NO. C101B

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001



NOTES:
1. TRASH GUARD SHALL BE INSTALLED INSIDE THE DRAIN INLET ON THE FACE OF OUTFALL DRAIN LINE TO PREVENT DEBRIS/TRASH GETTING INTO SUBBASE OF PERMEABLE PAVING.
2. PROVIDE DRAIN INLET FILTER BY FABCO OR APPROVED EQUAL INSIDE ALL DRAIN INLETS.

PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 C102 DRAINAGE PLAN 1"=20'

DRAINAGE PLAN NOTES:
1. PROVIDE DRAINAGE STRUCTURES AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD AND/OR THE LOUISIANA DOTD.
2. DIRECT DRAINAGE OF ALL PAVEMENT UNIFORMLY TOWARDS PERMEABLE PAVING AS NOTED ON DRAWINGS. NOTIFY A/E IF ANY DISCREPANCY WITH FINISHED GRADES TO ENSURE POSITIVE FLOW AND DRAINAGE IS MAINTAINED.
3. ALL NEW DRAIN PIPES SHALL BE A–2000PVC CONFORMING TO THE REQUIREMENTS OF ASTM F949 UNLESS NOTED OTHERWISE. DRAIN PIPE FITTINGS SHALL CONFORM TO ASTM F949 PER MANUFACTURERS REQUIREMENTS. ALL JOINTS SHALL BE MADE WITH INTEGRALLY–FORMED BELL AND SPIGOT GASKETED CONNECTIONS. ELASTOMETRIC SEALS (GASKETS) SHALL CONFORM TO ASTM F477.
4. PERFORATED DRAIN PIPE SHALL BE A–2000PVC BY CONTECH CONSTRUCTION PRODUCTS INC., CONFORMING TO ASTM F949. PERFORATION DIMENSTIONS SHALL BE IN ACCORDANCE WITH ASTM F949 TABLE 5 AND SECTION 7.9.
5. ALL INLET CONNECTION AT PIPE INTERFACES SHALL BE GROUTED WITH NON–SHRINK GROUT FOR AN AIR–TIGHT SEAL.
6. SHAPE BOTTOM OF DRAIN INLET, DRAIN MANHOLE STRUCTURES WITH GROUT TO ENSURE POSITIVE FLOW. STANDING WATER INSIDE THE DRAIN INLET OR MANHOLE IS UNACCEPTABLE –TYP.
7. PROVIDE DRAIN INLET FILTER OR INLET SKIMMER BASKETS (BY FABCO OR APPROVED EQUAL) IN ALL DRAIN INLETS.
8. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN ALL (EXISTING AND NEW) CATCH BASINS, DRAIN INLETS, AND DRAIN PIPES TO MAINTAIN POSITIVE DRAINAGE AND RESTORE SERVICES.
9. CONTRACTOR SHALL SUBMIT COPIES OF ALL TESTING REPORTS TO A/E.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DRAINAGE STRUCTURES, FITTINGS, DRAIN PIPES TO A/E FOR APPROVAL BEFORE ORDERING MATERIAL.
11. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF ALL EXISTING DRAIN LINES PRIOR TO MAKING ANY CONNECTIONS/INSTALLATIONS. NOTIFY A/E IMMEDIATELY IF ANY CONFLICT IS ENCOUNTERED BETWEEN FLOW LINE INV. ELEVATION OF NEW DRAIN LINE AND INVERT ELEVATION OF EXISTING DRAIN.
12. CONTRACTOR SHALL VERIFY LOCATION (HORIZONTAL AND VERTICAL, WHEREVER POSSIBLE) OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL TAKE EXTREME PRECAUTIONS WHEN WORKING IN THE VICINITY OF EXISTING/NEW GAS, FIBER OPTICS, ELECTRICITY, UNDERGROUND DUCT BANKS, ETC. SO AS NOT TO CAUSE DAMAGE.
13. NOTIFY A/E IMMEDIATELY IF GRADE CONFLICT IS ENCOUNTERED BETWEEN NEW DRAIN LINE AND STRUCTURAL FOUNDATION & UNDERGROUND UTILITIES (SANITARY SEWER, DOMESTIC AND FIRE WATER, GAS, ETC.)
14. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES COMPANY PRIOR TO OFFSETING EXISTING UTILITIES IF ANY GRADE/INVERT CONFLICT IS ENCOUNTERED WITH NEW DRAIN LINE.

MAINTENANCE OF PERMEABLE PAVING (PERVIOUS CONCRETE):
SOME KEY ACTIONS HELP ENSURE THE LONG–TERM PERFORMANCE OF PERMEABLE PAVEMENT DURING ITS OPERATION LIFE. THE MOST FREQUENTLY CITED MAINTENANCE PROBLEM IS SURFACE CLOGGING CAUSED BY ORGANIC MATTER AND SEDIMENT, WHICH CAN BE REDUCED BY THE FOLLOWING MEASURES:

1. ROUTINE MAINTENANCE: REGULAR DRY–SWEEPING TO REMOVE SEDIMENT PARTICLES BEFORE THEY CAN INFILTRATE DEEPLY INTO THE PERVIOUS CONCRETE.
2. PERIODIC VACUUMING: USE A VACUUM SWEEPER AT LEAST TWICE PER YEAR TO REMOVE SEDIMENT AND DEBRIS.
3. REMOVE LEAVES FROM SURFACE DURING THE FALL. MANUALLY REMOVE WEEDS AND VEGETATION GROWING IN THE POROUS SURFACE.
4. TRY A MORE POWERFUL VACUUM OR PRESSURE WASHING IF POROUS SURFACE STILL NOT DRAINING WATER.

ALL PERMEABLE PAVING INSTALLATIONS SHALL BE SUBJECTED TO INFILTRATION TESTING. TESTING SHALL BE CONDUCTED ACCORDING TO THE ASTM INTERNATIONAL C1701 OR C1781 STANDARDS, AS APPROPRIATE. ALL TYPES OF PERMEABLE PAVEMENT SHALL MAINTAIN A MINIMUM INFILTRATION RATE OF 200 INCHES PER HOUR.

MAINTENANCE FOR LANDSCAPE AREAS:
1. LAWN MOWING SHOULD BE PERFORMED ROUTINELY, AS NEEDED, THROUGHOUT THE GROWING SEASON. GRASS HEIGHT SHOULD BE MAINTAINED ADEQUATELY. GRASS CUTTINGS SHOULD BE COLLECTED AND DISPOSED OFFSITE, OR A MULCHING MOWER CAN BE USED. PRECAUTIONS SHALL BE TAKEN TO ENSURE GRASS CUTTINGS DO NOT MIGRATE TO ADJACENT PERMEABLE PAVING. REGULAR MOWING SHOULD ALSO INCLUDE WEED CONTROL PRACTICES; HOWEVER, HERBICIDE USE SHOULD BE KEPT TO A MINIMUM.
2. AESTHETIC MAINTENANCE OF LANDSCAPE AREAS OFTEN CONSISTS OF WEEDING, TRASH REMOVAL, CLIPPING AND PRUNING VEGETATION, AND MULCH REPLACEMENT.
3. ROUTINE INSPECTION OF LANDSCAPE AREAS TO IDENTIFY ANY AREAS OF OBVIOUS INCREASED SEDIMENT DEPOSITION, SCOURING AND EROSION FROM STORM FLOWS, DAMAGE TO THE PROFILE.
4. REMOVAL OF SEDIMENT WHERE IT IS SMOTHERING THE LANDSCAPE BEDS.
5. REPAIRING ANY DAMAGE TO THE PROFILE RESULTING FROM SCOUR, RILL EROSION BY REPLACEMENT OF APPROPRIATE FILL (TO MATCH ON–SITE SOILS) AND REVEGETATING.
6. TILLING OF THE SURFACE, OR REMOVAL OF THE SURFACE LAYER, IF THERE IS EVIDENCE OF CLOGGING.
7. REGULAR WATERING / IRRIGATION OF VEGETATION UNTIL PLANTS ARE ESTABLISHED AND ACTIVELY GROWING.
8. REMOVAL OF PLANTS THAT HAVE DIED AND REPLACEMENT WITH PLANTS OF EQUIVALENT SIZE AND SPECIES.
9. VEGETATION PEST MONITORING AND CONTROL.

STORMWATER MANAGEMENT PLAN – PERMEABLE PAVING TESTING:
ALL PERMEABLE PAVING INSTALLATIONS SHALL BE SUBJECT TO INFILTRATION TESTING AFTER INSTALLATION. TESTING SHALL BE CONDUCTED ACCORDING TO THE ASTM INTERNATIONAL C1701 OR C1781 STANDARDS, AS APPROPRIATE. ALL TYPES OF PERMEABLE PAVEMENT SHALL MAINTAIN A MINIMUM INFILTRATION RATE OF 200 INCHES PER HOUR.

STORMWATER MANAGEMENT PLAN – SWPPP NOTE:
1. PURSUANT TO BUILDING CODE SECTION 121.13(E); PRIOR TO RELEASE FOR CONSTRUCTION THE CONTRACTOR SHALL EXECUTE THE CONSTRUCTION SWPPP SUBMITTED WITH APPLICATION AND IN COMPLIANCE WITH BUILDING CODE SECTION 121.5 AND 121.6 AND MODELED ON DPW STANDARD SPECIFICATION SECTION C204. INCLUDE CONTACT INFORMATION [NAME, PHONE, EMAIL] FOR THE ON–SITE PERSON OR PERSONS TO BE CONTACTED IN THE EVENT OF A VIOLATION OR COMPLAINT
2. THE CONTRACTOR SHALL PREPARE AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON–SITE, WHICH DESCRIBES IN DETAIL THE CONTRACTORS RESPONSIBILITY TO PREVENT CONTAMINATION OF THE STORMWATER COLLECTION SYSTEM. CONTRACTOR SHALL IMPLEMENT, MAINTAIN, INSPECT ALL EROSION AND SEDIMENT CONTROLS IDENTIFIED IN THE SWPPP. THE PROGRAM SHALL COVER ALL CONSTRUCTION ACTIVITIES AND EXTRAORDINARY EVENTS.

STORMWATER MANAGEMENT PLAN – ACKNOWLEDGEMENT NOTE:
PURSUANT TO BUILDING CODE SECTION 121.17; PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, POST–CONSTRUCTION CERTIFICATION INCLUDING AS–BUILT DRAWINGS, AFFIDAVIT FROM DESIGNER/S, AND PERFORMANCE BOND (BY OWNER), BASED UPON THE ACTUAL COST OF CONSTRUCTION MUST BE SUBMITTED FOR APPROVAL. AFTER FINAL INSPECTON THESE DOCUMENTS MUST BE RECORDED WITH THE CIVIL DISTRICT CLERK COURT. THIS TAKES TIME AND MONEY.

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REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
STATE OF LOUISIANA

REG. NO.

01–13–2026

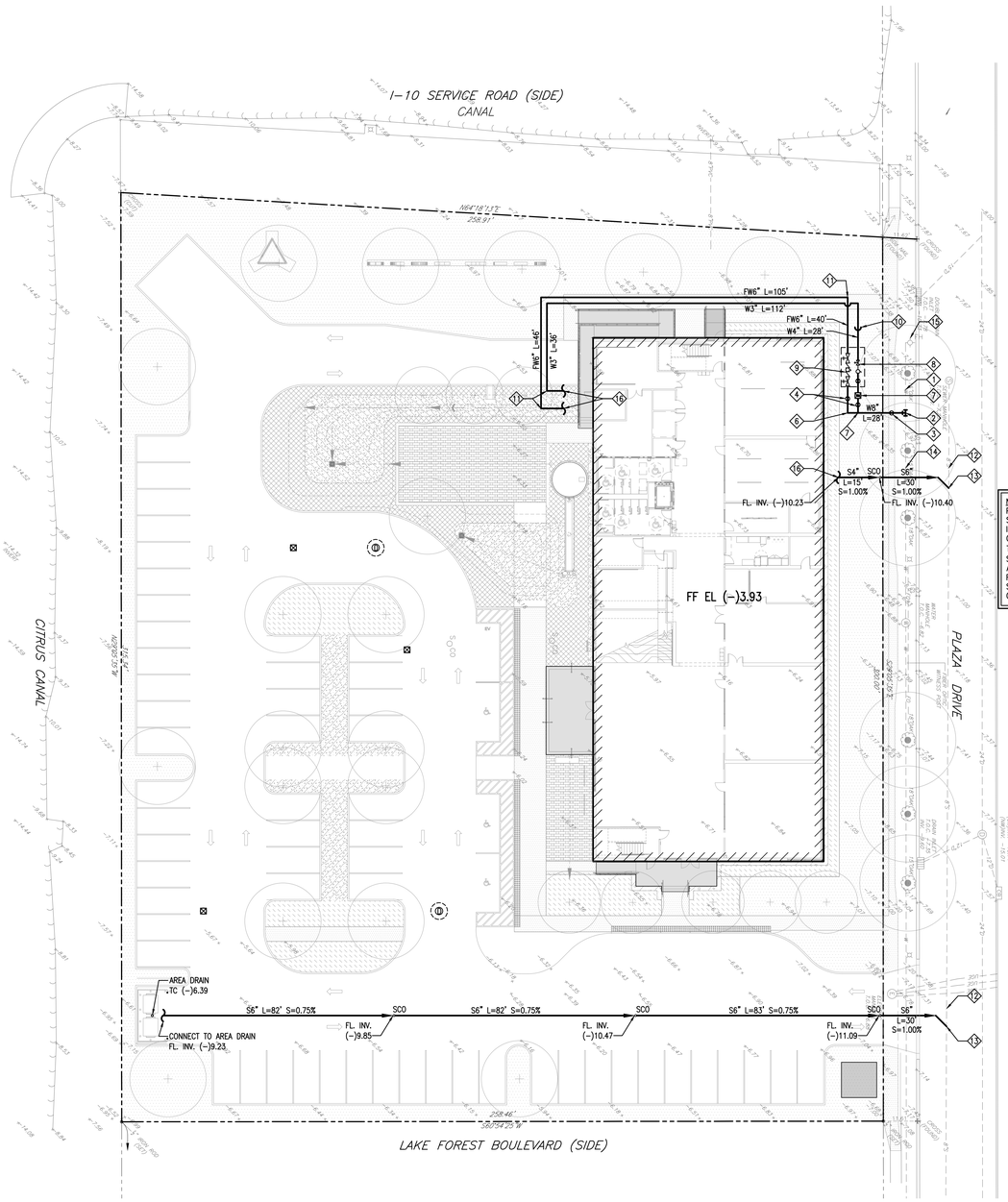
WDG Project No: 2024002

SHEET NAME

DRAINAGE PLAN

SHEET NO. C102

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488–1317
JOB NO. 25001



NOTE:
PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PERFORM EXPLORATORY FIELD INVESTIGATION TO VERIFY INVERT ELEVATION OF EXISTING SANITARY SEWER LINE PRIOR TO INSTALLATION/CONNECTION OF NEW SEWER LINE. NOTIFY A/E IMMEDIATELY IF ANY CONFLICT IS ENCOUNTERED BETWEEN FLOW LINE INVERT ELEVATION OF NEW SANITARY SEWER AND INVERT ELEVATION OF EXISTING SEWER MAIN IN THE STREET.

PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 C103 UTILITIES PLAN 1"=20'

SANITARY SEWER NOTES:
1. MATERIAL FOR SANITARY SEWER PIPE SHALL BE SOLD WALL PVC PIPE, MANUFACTURED IN ACCORDANCE WITH ASTM D-3034 SPECIFICATIONS AND TO A SDR (STRENGTH DIMENSION RATIO) OF 26 WITH ELASTOMERIC GASKETS. THE ELASTOMERIC GASKETS AND RETAINER RINGS SHALL BE INSTALLED BY THE MANUFACTURER IN ACCORDANCE WITH ASTM D-3212 AND F-477. THE FITTINGS FOR SOLID WALL PVC PIPE SHALL BE THE SAME INSIDE DIAMETER AS THE SOLID WALL PVC WITH AN SDR OF 35.
2. ALL NEW SANITARY SEWER SERVICES SHALL HAVE A MINIMUM OF 3 FEET COVER (FROM TOP OF PIPE TO FINISH GRADE OF PAVING OR GRASSY AREA).
3. MAINTAIN MINIMUM 12" VERTICAL CLEARANCE BETWEEN NEW SANITARY SEWER AND WATER/DRAIN/ANY OTHER UNDERGROUND UTILITIES WHERE UTILITIES ARE CROSSING (WITH NEW SANITARY SEWER BELOW).
4. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF EXISTING SANITARY SEWER MAIN AT THE POINT OF CONNECTION PRIOR TO MAKING ANY CONNECTIONS/INSTALLATIONS. NOTIFY A/E IMMEDIATELY IF ANY CONFLICT IS ENCOUNTERED BETWEEN FLOW LINE INV. ELEVATION OF NEW SANITARY SEWER AND INVERT ELEVATION OF EXISTING SEWER LINE.
5. CONTRACTOR SHALL NOTIFY A/E IF ANY GRADE CONFLICT IS ENCOUNTERED BETWEEN NEW SANITARY SEWER LINE WITH EXISTING DRAIN, WATER, GAS LINES AND ANY OTHER UNDERGROUND UTILITIES.
6. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES COMPANY PRIOR TO OFFSETTING EXISTING UTILITIES IF ANY GRADE/INVERT CONFLICT IS ENCOUNTERED WITH NEW SANITARY SEWER LINE.
7. SANITARY SEWER PIPE SHALL HAVE 6" WIDE CONTINUOUS METALLIC DETECTABLE WARNING TAPE ATTACHED TO THE PIPE @ 10' MAXIMUM.
8. SEE SPECIFICATIONS FOR SANITARY SEWER

DOMESTIC WATER AND FIRE WATER:
1. FIRE WATER LINE SHALL BE SOLID WALL DR 18 PVC PIPE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900 POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS FOR WATER DISTRIBUTION.
2. FOR PVC WATER LINES, ALL PIPE FITTING SHALL BE DUCTILE IRON. ALL NUTS, BOLTS AND WASHERS, ETC. SHALL BE MANUFACTURED OF STAINLESS STEEL.
3. ALL POTABLE WATER PIPE AND FITTINGS (3" AND LESS) SHALL CONFORM TO POLYVINYL CHLORIDE (PVC) PIPE IN ACCORDANCE WITH ASTM D-1785, UNLESS NOTED OTHERWISE. POLYETHYLENE PLASTIC PIPE AND TUBING (PE), IF USED, SHALL CONFORM TO AWWA C901/C906, ASTM D2239, ASTM D2737, ASTM D3035, ASTM F417, CELL CLASS PER ASTM D3350, PPI LISTED MATERIAL (TR-4) PE 4710, AND ANSI/NSF-14.
4. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) FOR FIREWATER LINE SHALL BE SERIES 757DCDAOSY DOUBLE CHECK DETECTOR ASSEMBLY BY WATTS.
5. REDUCED PRESSURE ZONE (RPZ) BACKFLOW PRVENTER FOR NEW DOMESTIC WATER SERVICE SHALL BE LEAD FREE, SERIES 9570SY REDUCED PRESSURE ZONE ASSEMBLY BY WATTS.
6. NEW DOMESTIC WATER AND FIRE WATER LINES SHALL HAVE A MINIMUM OF 3 FEET OF COVER FROM TOP OF PIPE TO FINISH GRADE OF PAVING.
7. WATER LINES SHOWN IN SCHEMATIC DETAIL ONLY. EVERY OFFSET, ELBOW, TEE, WYE, ETC. THAT MAY BE REQUIRED ARE NOT SHOWN FOR CLARITY. HOWVER, IT IS CONTRACTORS RESPONSIBILITY TO SUPPLY EACH AND EVERY SUCH ITEM TO PROVIDE COMPLETE WORKING UTILITY SYSTEMS.
8. PROVIDE METER VAULT, VALVES, REDUCED PRESSURE BACKFLOW PREVENTER AND OTHER FIXTURES AND STRUCTURES CONFORMING TO THE STANDARDS OF THE S&WB. COORDINATE INSTALLATION OF METER AND METER VAULT WITH S&WB.
9. PROVIDE POTABLE WATER CONNECTIONS FROM MAIN TO METER AND FROM METER TO BUILDING IN ACCORDANCE WITH THE STANDARDS OF THE S&WB.
10. FLUSH AND DISINFECT NEW WATER LINES AND AFFECTED PORTIONS OF EXISTING WATER LINES IN ACCORDANCE WITH AWWA C601 AND THE S&WB STANDARDS.
11. PROVIDE CONCRETE THRUST BLOCKS AND/OR MECHANICAL RESTRAINTS AT TEES, ELBOWS, AND OTHER CHANGES IN DIRECTION.
12. DOMESTIC WATER AND FIRE WATER PIPES SHALL HAVE 6" WIDE CONTINUOUS METALLIC DETECTABLE WARNING TAPE INSTALLED 12" ABOVE THE PIPE.
13. SEE WATER DISTRIBUTION SPECIFICATIONS.

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) AND REDUCED PRESSURE ZONE (RPZ) ASSEMBLY :
1. DCDA BACKFLOW PREVENTER SHALL BE EQUIPPED WITH TAMPER SWITCH AS REQUIRED BY FIRE MARSHALL GOVERNING AGENCY.
2. PROVIDE VANDALISM AND TAMPER PROTECTION FOR DCDA (FIRE WATER) AND RPZ BACKFLOW PREVENTER ASSEMBLY (DOMESTIC WATER).
3. ALL ABOVE GROUND PIPES AND FITTINGS OF DCDA AND RPZ BACKFLOW PREVENTER SHALL BE INSULATED FOR FREEZE PROTECTION IN ACCORDANCE WITH CITY OF NEW ORLEANS S&WB REQUIREMENTS.
4. FOUNDATION SLAB FOR DCDA AND RPZ BACKFLOW PREVENTER SHALL BE 4,000 PSI CONCRETE, 6" THICK, REINFORCED WITH #4 @ 12" O.C EACH WAY. FOUNDATION SLAB TO BE SUPPORTED ON SIX (6) INCHES OF SELECT FILL (RIVER SAND), COMPACTED TO 95% OF ITS MAX DRY DENSITY WITH GEOTEXTILE FABRIC (MIRAFI 600X) UNDERNEATH IT.
5. FOUNDATION SLAB DIMENSION SHALL BE MINIMUM 4'(W) x (LENGTH OF BFP +1' EACH SIDE)

SEWERAGE & WATER BOARD NOTES:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH S&WB GENERAL SPECIFICATIONS, S&WB STANDARD DRAWINGS AND S&WB DRAWING NO. 7260-SWO.
2. CONTRACTOR SHALL PROVIDE THE FOLLOWING TO THE S&WB AT THE TIME OF APPLICATION:
   A. LOUISIANA MUNICIPAL AND PUBLIC WORKS CONTRACTOR'S LICENSE.
   B. DEPARTMENT OF PUBLIC WORKS UTILITY/SERVICE CUT PERMIT. (HTTPS:WWW.NOLA.GOV/ONESTOP/BUILDING/STREET/STREET-CUT-PERMIT/)
   C. CERTIFICATE OF INSURANCE INDEMNIFYING THE S&WB IN THE AMOUNT NO LESS THAN $5,000,000.00.
3. ANY WORK OUTSIDE OF THE PUBLIC RIGHT OF WAY MUST BE REVIEWED AND APPROVED BY THE S&WB PLUMBING DEPARTMENT (504-585-2164) TO VERIFY COMPLIANCE WITH ALL APPLICABLE GOVERNING REGULATIONS. OBTAINING THE SIGNATURE OF A REPRESENTATIVE OF S&WB NETWORKS ENGINEERING DOES NOT RELIEVE THE CONTRACTOR OF THIS OBLIGATION.
4. THE CONTRACTOR/OWNER WILL BE RESPONSIBLE FOR CALLING LOUISIANA ONE CALL BEFORE EXCAVATING AND ALL UTILITIES THAT ARE MARKED VIA LOUISIANA ONE CALL SHALL ALSO BE SHOWN ON THE PROPOSED UTILITY DRAWING IN THE PROPOSED WORK AREA.
5. THE SEWERAGE AND WATER BOARD OF NEW ORLEANS RETAINS THE RIGHT TO REVISE THE APPROVED DESIGN AS NECESSARY DURING CONSTRUCTION.

UTILITIES PLAN KEY NOTES:

1. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND DEPTH OF EXIST. WATER MAIN IN THE FIELD. NOTIFY A/E IMMEDIATELY IF DISCREPANCY IS ENCOUNTERED IN FIELD CONDITIONS.
2. CONNECT NEW 8" WATER LINE TO EXIST. 8" WATER MAIN WITH DUCTILE IRON TEE CONFORMING TO S&WB OF NEW ORLEANS REQUIREMENTS.
3. 8" ROTATING/ROLLING DISC WOODS GATE VALVE WITH MECHANICAL JOINT END CONNECTIONS, COMPLYING WITH AWWA C-500, NSF-61 APPROVED, IN WATER MANHOLE OR VALVE BOX PER S&WB DWG. NO. 6179-F-2 AND CONFORMING TO S&WB OF NEW ORLEANS REQUIREMENTS. PROVIDE 2'x2'x4" CONCRETE SLAB IN NON-TRAFFIC AREA.
4. ISOLATION GATE VALVE IN VALVE BOX PER S&WB DWG. NO. 6179-F-2 AND CONFORMING TO S&WB OF NEW ORLEANS REQUIREMENTS. PROVIDE 2'x2'x4" CONCRETE SLAB IN NON-TRAFFIC AREA.
5. 8x8x4 DUCTILE IRON TEE FOR DOMESTIC WATER LINE
6. 8x8x6 DUCTILE IRON TEE FOR FIREWATER LINE
7. 4" S&WB SUPPLIED WATER METER FOR DOMESTIC WATER.
8. 4" REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER (LEAD FREE) FOR DOMESTIC WATER PER S&WB DWG. NO. 8353-W3
9. 6" DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTER FOR FIRE WATER WITH S&WB BY-PASS METER PER S&WB DWG. NO. 8353-W2.
10. 4x3 REDUCER
11. PROVIDE CONCRETE THRUST BLOCKS AND/OR MECHANICAL RESTRAINTS AT TEES, ELBOWS, AND OTHER CHANGES IN DIRECTION.
12. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND DEPTH OF EXIST. SANITARY SEWER MAIN IN THE FIELD. NOTIFY A/E IMMEDIATELY IF DISCREPANCY IS ENCOUNTERED IN FIELD CONDITIONS.
13. CONNECT NEW SANITARY SEWER LINE (S6") TO EXIST. SANITARY SEWER LINE WITH WYE CONNECTION. WYE SHALL BE INSTALLED IN THE DIRECTION/ SLOPE OF EXIST. SEWER LINE.
14. NEW SANITARY SEWER LINE SHALL BE INSTALLED UNDERNEATH EXIST. WATER MAIN. MAINTAIN MIN. 18" VERTICAL CLEARANCE BETWEEN TOP OF SEWER PIPE AND BOTTOM OF WATER LINE.
15. EXIST. FIRE HYDRANT. FIRE DEPARTMENT CONNECTION (FDC) FOR THE NEW BUILDING SHALL BE WITHIN 100 FEET, HOSE LENGTH, TO THE EXISTING FIRE HYDRANT.
16. SEE PLUMB. FOR CONT. – TYP.
CONTRACTOR SHALL PROVIDE FLEXIBLE CONNECTIONS WHERE SITE UTILITIES CONNECT TO SEWER AND WATER PIPE COMING OUT OF THE BUILDING.

UTILITIES PLAN LEGEND

S6" L=25' S=1.00%	NEW SEWER, SIZE, LENGTH, SLOPE
W4" L=25'	NEW DOMESTIC WATER, SIZE, MATERIAL, LENGTH
FW6" DI L=25'	NEW FIRE WATER, SIZE, MATERIAL, LENGTH
⊗	NEW GATE VALVE
	NEW REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER
	NEW DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTER
○SCO	NEW SEWER CLEANOUT, SEE 5/C2.2

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JOB NO. 25001

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CITY REQUIREMENTS. I AM GENERALLY ADMINISTERING THE WORK.

ENGINEER _____
REG. NO.

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

WDG Project No: 2024002

SHEET NAME
UTILITIES PLAN

SHEET NO. C103

1 C200 GENERAL NOTES

CIVIL GENERAL NOTES:
1. DIMENSIONS AND CONDITIONS TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION ARE APPROXIMATE AND ARE NOT PURPORTED TO BE PRECISE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL SURFACE AND SUBSURFACE STRUCTURES, UTILITIES, DEPTHS AND INVERTS PRIOR TO COMMENCING WORK. NOTIFY THE A/E IF CONDITIONS VARY FROM THOSE SHOWN.
2. CONTRACTOR SHALL VERIFY BUILDING AND SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING BUILDING, SIDEWALKS
3. ELEVATIONS ARE IN FEET. SEE SURVEY FOR ELEVATION DATUM AND REFERENCE BENCH MARK.
4. OBTAIN AND PAY FOR INSPECTIONS, LICENSES, PERMITS AND APPROVALS REQUIRED BY GOVERNING AUTHORITIES AND INSTALL ALL WORK IN COMPLIANCE THERE WITH.
5. DRAIN, SEWER AND WATER LINES ARE SHOWN IN SCHEMATIC DETAIL ONLY. EVERY OFFSET, ELBOW, TEE, WYE, ETC., THAT MAY BE REQUIRED ARE NOT SHOWN FOR CLARITY, HOWEVER, CONTRACTOR SHALL SUPPLY EACH AND EVERY SUCH ITEM AS IF SHOWN. PROVIDE COMPLETE WORKING UTILITY SYSTEMS.
6. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR CONTINUATION OF UTILITIES WITHIN BUILDINGS.
6. WHERE NOTED, REFERENCED STANDARD SPECIFICATION SHALL BE THE CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD (S&WB) STANDARD SPECIFICATIONS, LATEST EDITION, OR THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION, WHICHEVER IS THE MORE STRINGENT.
7. ANY UTILITY LINE OR SERVICE LINE ENCOUNTERED DURING CONSTRUCTION, WHETHER OR NOT SHOWN ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED BY THE CONTRACTOR AND ANY REPAIRS NECESSARY DUE TO DAMAGE TO SAME BY THE CONTRACTOR SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ACTUAL LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES ON THE PROJECT SITE. LOCATIONS OF EXISTING UTILITIES AND STRUCTURES INDICATED ON DRAWINGS APPROXIMATE ONLY, AND THOSE INDICATED ARE NOT NECESSARILY ALL THAT MAY EXIST ON THE PROJECT SITE. THE CONTRACTOR SHALL VERIFY THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES (POWER, TELEPHONE, GAS, WATER, SEWER, ETC.) WITH THE APPROPRIATE UTILITY COMPANY BEFORE CONSTRUCTION BEGINS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITIES (INCLUDING BUT NOT LIMITED TO ELECTRICITY, SEWER, AND WATER TIE-INS, CONNECTIONS AND DISCONNECTIONS) WITH THE APPROPRIATE UTILITY PROVIDER AT NO COST OF THE OWNER.
10. ALL EXISTING AND NEW UTILITY STRUCTURES – SANITARY SEWER MANHOLE TOPS, WATER VALVES BOXES, METERS, STORM SEWERS, OR OTHER RELATED APPURTENANCES SHALL BE ADJUSTED TO FINISH GRADE BY CONTRACTOR AS AN ABSORBED COST OF WORK.
11. PROVIDE CONSTRUCTION ZONE TRAFFIC CONTROL PER LOUISIANA DOTD STANDARD PLANS.
12. PROVIDE DETECTABLE WARNING SURFACE WHERE PEDESTRIAN AND VEHICULAR AREAS ARE NOT OTHERWISE SEPARATED BY A CURB, RAILING OR OTHER STRUCTURAL ELEMENT. DETECTABLE WARNING SURFACE SHALL BE A MINIMUM 36 INCHES WIDE AND SHALL BE CONTINUOUS BETWEEN PEDESTRIAN AND VEHICULAR AREAS.
13. DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES, 0.9 INCHES IN NOMINAL DIAMETER, 0.2 INCHES IN NOMINAL HEIGHT, CENTERED 2.35 INCHES APART.
14. CONTRACTOR SHALL ENSURE THAT ALL NATURAL DRAINAGE ROUTES ARE MAINTAINED AND PRESERVED THROUGHOUT THE COURSE OF PROJECT.
15. THE CONTRACTOR SHALL PROVIDE, ACCURATE AS-BUILTS DRAWINGS UPON SUBSTANTIAL COMPLETION OF THE PROJECT.

DRAINAGE:
SEE SPECIFICATIONS FOR STORM DRAINAGE (SECTION 334100) AND SHEET C1.2 FOR STORM DRAINAGE NOTES

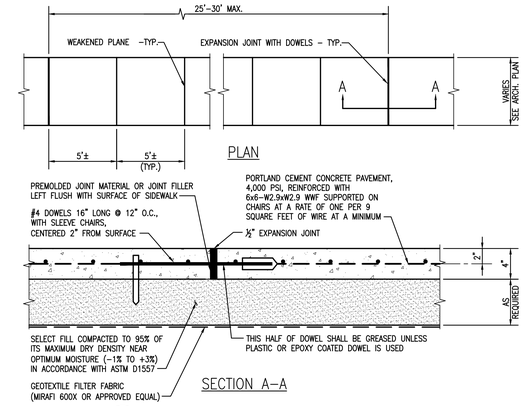
EARTHWORK:
SEE SPECIFICATIONS FOR EARTHWORK (SECTION 312000)

PORTLAND CEMENT CONCRETE PAVING:
1. WHERE NEW PAVING IS TO MEET EXISTING, PROVIDE A SAW CUT TO ENSURE A STRAIGHT JOINT. SAW CUT A MINIMUM 1" DEEP. BREAK THE REMAINDER OF CONCRETE BY CONVENTIONAL MEANS WITHOUT DAMAGING CONCRETE TO REMAIN.
2. PORTLAND CEMENT CONCRETE PAVEMENT SHALL CONFORM TO SECTION 601 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION, AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
3. FORM WEAKENED PLANES IN SIDEWALK BY A JOINTING TOOL OR OTHER ACCEPTABLE MEANS. SPACE WEAKENED PLANES EQUAL TO THE WIDTH OF THE SIDEWALK. ALIGN EXPANSION JOINTS IN SIDEWALK WITH JOINTS IN CURB.
4. DEFORMED STEEL BARS SHALL BE GRADE 60 AND SHALL CONFORM TO ASTM A615. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. DOWEL BARS SHALL BE PLAIN BARS CONFORMING TO ASTM A615. PAINT FOR DOWEL BARS SHALL CONFORM TO AASHTO DESIGNATION M72.
5. PROVIDE HANDICAPPED RAMPS ACCORDING TO CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS STANDARD PLANS. COORDINATE LOCATION OF RAMPS WITH THE CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS.
6. SEE SPECIFICATIONS FOR RIGID PAVEMENT (SECTION 321313)

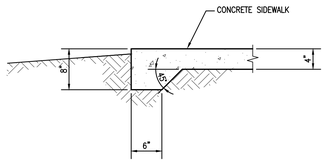
ASPHALT PAVING:
1. ASPHALT MIXTURES, HANDLING, AND INSTALLATION SHALL BE IN ACCORDANCE WITH PART V "ASPHALT PAVEMENTS" OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION.

DOMESTIC WATER AND FIRE WATER:
SEE SPECIFICATIONS FOR WATER DISTRIBUTION AND SHEET C1.3 FOR NOTES

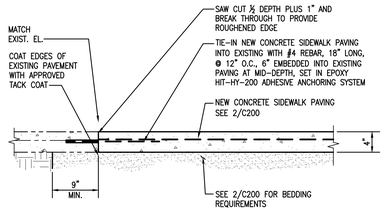
SANITARY SEWER:
SEE SPECIFICATIONS FOR SANITARY SEWERAGE AND SHEET C1.3 FOR NOTES



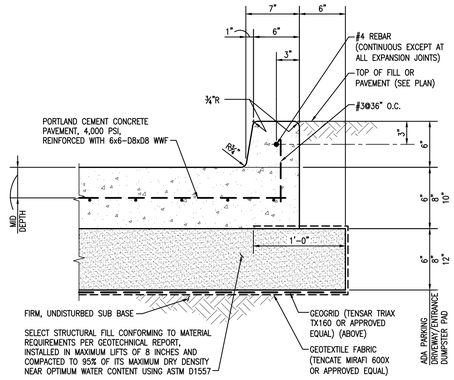
2 C200 DETAIL – PORTLAND CEMENT CONCRETE SIDEWALK PAVEMENT 1–1/2"=1'–0"



2A C200 SECTION – TYPICAL SIDEWALK W/ THICKENED EDGE 1"=1'–0"

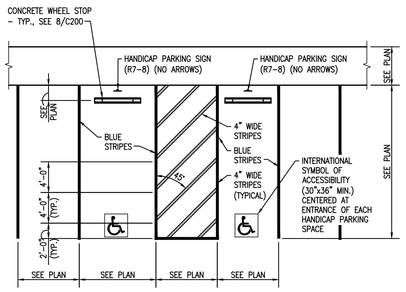


3 C200 DETAIL – NEW CONCRETE SIDEWALK PAVEMENT DOWELED INTO EXISTING N.T.S.



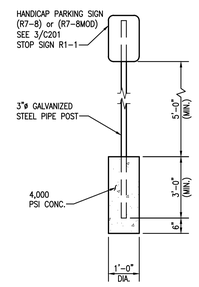
NOTES:
1. PROVIDE JOINTS IN CURB TO MATCH JOINTS IN PAVEMENT.
2. PROVIDE CHAIRS TO SUPPORT WWF AT A RATE OF ONE PER 16 SQUARE FEET OF WIRE AT A MINIMUM.

4 C200 DETAIL – TYPICAL CONCRETE PAVEMENT SECTION W/ CURB N.T.S.

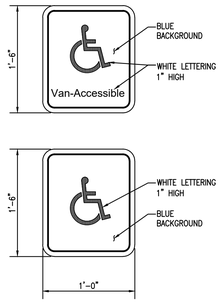


STRIPING NOTES:
1. PARKING STRIPES SHALL BE PAINTED 4" WIDE. DIMENSIONS SHOWN ARE CENTER TO CENTER.
2. PAVEMENT MARKINGS SHALL BE PAINTED WHITE ON ASPHALTIC CONCRETE PAVEMENT AND YELLOW ON PORTLAND CEMENT CONCRETE PAVEMENT.
3. PAVEMENT MARKINGS FOR HANDICAPPED PARKING STALLS SHALL BE PAINTED BLUE. SUBMIT FOR APPROVAL.
4. WHEEL STOPS SHALL BE PAINTED TO MATCH STRIPING.
5. THE CONTRACTOR SHALL USE WATER–BORNE TRAFFIC PAINT, AND SHALL BE IN COMPLIANCE WITH LADOTD SPECIFICATIONS, SECTION 1015.12 TRAFFIC PAINT.
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL ACCESSIBILITY PAVEMENT MARKINGS AND SIGNS IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES.
7. STRIPING DIMENSIONS SHOWN ABOVE ARE "TYPICAL" DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

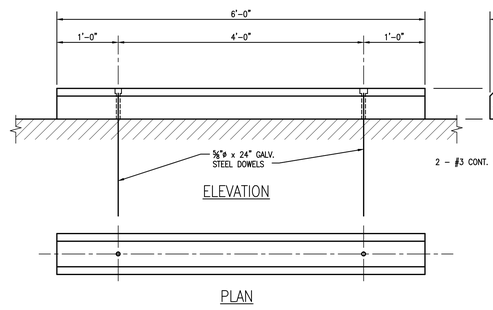
5 C200 DETAIL – STANDARD AND HANDICAP PARKING STRIPING (SCHEMATIC) N.T.S.



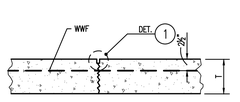
6 C200 DETAIL – SIGN POST FOUNDATION 1/2"=1'–0"



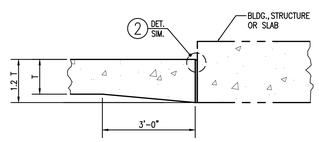
7 C200 DETAIL – HANDICAP SIGNS 1 1/2"=1'–0"



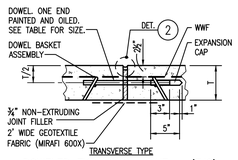
8 C200 DETAIL – PRECAST CONCRETE WHEEL STOP 1"=1'–0"



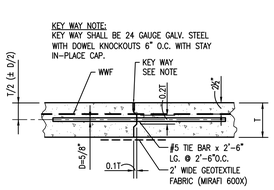
TRANSVERSE CONTROL JOINT (TCJ) N.T.S.



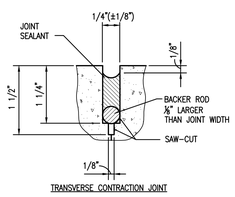
EXPANSION JOINT – (EJ1) N.T.S.



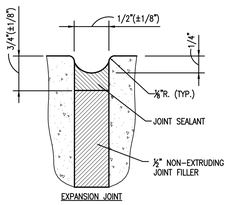
DOWELED EXPANSION JOINT – (EJ2) N.T.S.



KEYED TIED LONGITUDINAL JOINT (LJ) N.T.S.



N.T.S.

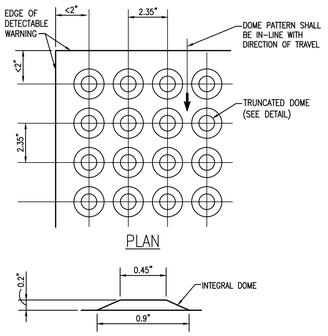


N.T.S.

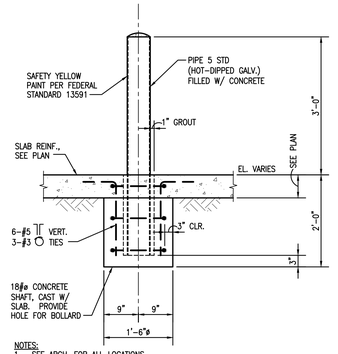
TABLE NO.1 DOWELS (SMOOTH BARS)		
SLAB THICKNESS T (IN.)	BAR DIA. AND LENGTH	AVERAGE SPACING (IN.)
5	3/4"x18"	12
6 TO 7.5	1"x18"	12
8 TO 10	1–1/4"x18"	12

NOTES:
1. TIE BARS SHALL BE DEFORMED BARS CONFORMING TO SECTION 1009 OF THE LADOTD STANDARD SPECIFICATIONS.
2. DOWEL BARS SHALL BE PLAIN (SMOOTH) BARS CONFORMING TO SECTION 1009 OF THE LADOTD STANDARD SPECIFICATIONS.
3. PREFORMED EXPANSION JOINT FILLER SHALL CONFORM TO SECTION 1005 OF THE LADOTD STANDARD SPECIFICATIONS.
4. JOINT SEALER SHALL BE EITHER POURED OR EXTRUDED TYPE CONFORMING TO SECTION 1005 OF THE LADOTD STANDARD SPECIFICATIONS.
5. CONTRACTOR TO SUBMIT HIS RECOMMENDED JOINTING PLAN FOR REVIEW PRIOR TO PLACING CONCRETE. CONTRACTOR'S RECOMMENDATIONS SHALL BE BASED ON ACI GUIDELINES.
   - PROVIDE DOWELED EXPANSION JOINT EVERY 50' TO 70' MAX. SPACING.
   - PROVIDE ½" PREFORMED, NON–EXTRUDING, RESILIENT BITUMINOUS TYPE EXPANSION JOINT FILLER MATERIAL AT THE INTERFACE OF NEW CONCRETE PAVING AND STRUCTURAL PAVING, BUILDING, ETC.
   - PROVIDE TIED LONGITUDINAL KEYED JOINT EVERY 12' TO 15' MAX. SPACING.
   - PROVIDE TRANSVERSE JOINT EVERY 12' TO 15' MAX. SPACING.

9 C200 DETAILS – CONCRETE PAVEMENT JOINTING N.T.S.



10 C200 DETAIL – DETECTABLE WARNING SURFACE N.T.S.



NOTES:
1. SEE ARCH. FOR ALL LOCATIONS.
2. COORD. ALL LOCATIONS WITH RESPECT TO EXISTING UTILITIES.

11 C200 DETAIL – TYPICAL BOLLARD NTS

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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ENGINEER _____ REG. NO.

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
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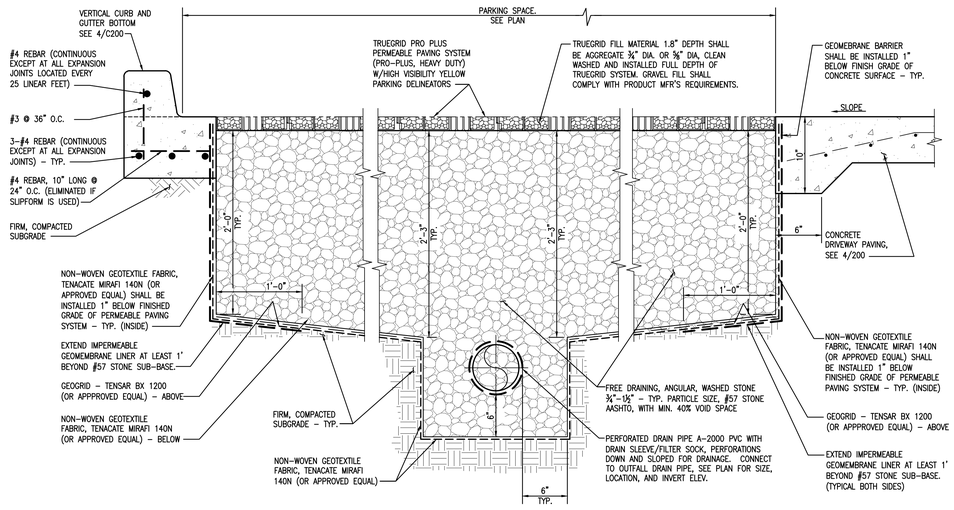
01–13–2026

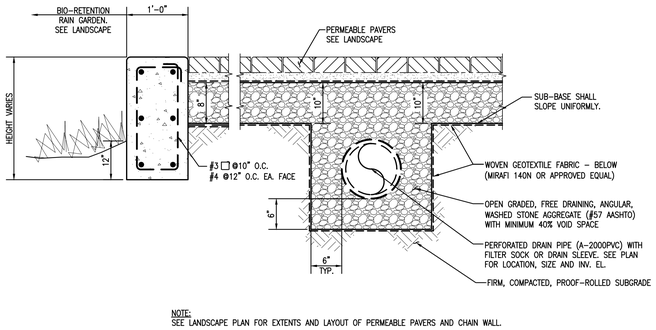
WDG Project No: 2024002

SHEET NAME
CIVIL GENERAL NOTES AND DETAILS

SHEET NO. C200

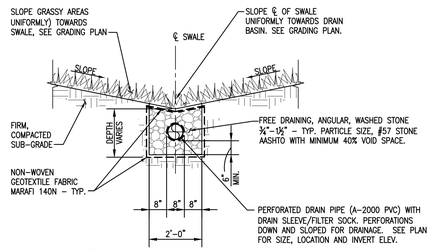


1 C201 SECTION – PERMEABLE PAVING TRUEGRID PAVERS WITH PERFORATED DRAINAGE SYSTEM N.T.S.



NOTE:
SEE LANDSCAPE PLAN FOR EXTENTS AND LAYOUT OF PERMEABLE PAVERS AND CHAIN WALL.

2 C201 SECTION – PERMEABLE PAVERS WITH PERFORATED DRAIN PIPE AND CHAIN WALL N.T.S.

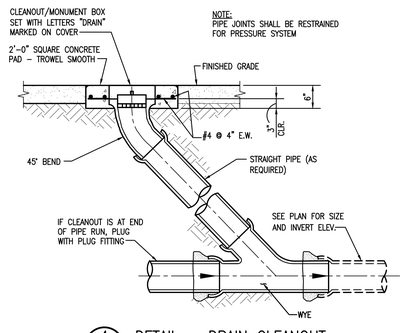


3 C201 SECTION – GRASSY SWALE (WITH PERFORATED PIPE) N.T.S

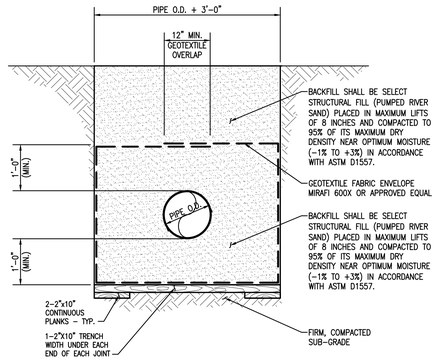
PLAN

NOTES:
1. PRECAST STRUCTURE TO MEET ASTM C–857–92.
1. CONCRETE SHALL BE 4,000 P.S.I. MINIMUM @ 28 DAYS.
2. REINFORCING STEEL SHALL BE PER ASTM A–615, GRADE 60.
3. RAM–NEK GASKET MATERIAL (OR APPROVED EQUAL) TO BE USED AS JOINT SEALANT.

3 C201 DETAIL – PRECAST DRAIN INLET (SCHEMATIC) 1/2"=1'–0"

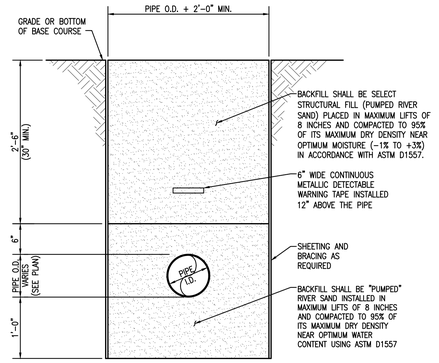


4 C201 DETAIL – DRAIN CLEANOUT 3/4"=1'–0"



NOTE: BEDDING AND FOUNDATIONS CONFORM WITH SECTION C741 OF THE GENERAL SPECIFICATIONS

5 C201 DETAIL – DRAINAGE PIPE BEDDING (A–2000 PVC PIPE) 3/4"=1'–0"



NOTE:
SHEETING AND BRACING SHOWN IS INTENDED FOR PROTECTION OF THE PIPE, AFTER INSTALLATION IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN AND IMPLEMENTATION FOR ANY SHEETING AND/OR BRACING REQUIRED FOR THE SAFETY OF HIS EMPLOYEES AND TO PROTECT HIS OPERATIONS DURING CONSTRUCTION

6 C201 DETAIL – TYPICAL PIPE TRENCH AND BEDDING FOR DOMESTIC WATER AND FIRE MAIN 1"=1'–0"

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ENGINEER
REG. NO.

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REG. No. 28228
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01–13–2026

WDG Project No: 2024002

SHEET NAME

CIVIL DETAILS

SHEET NO. C201

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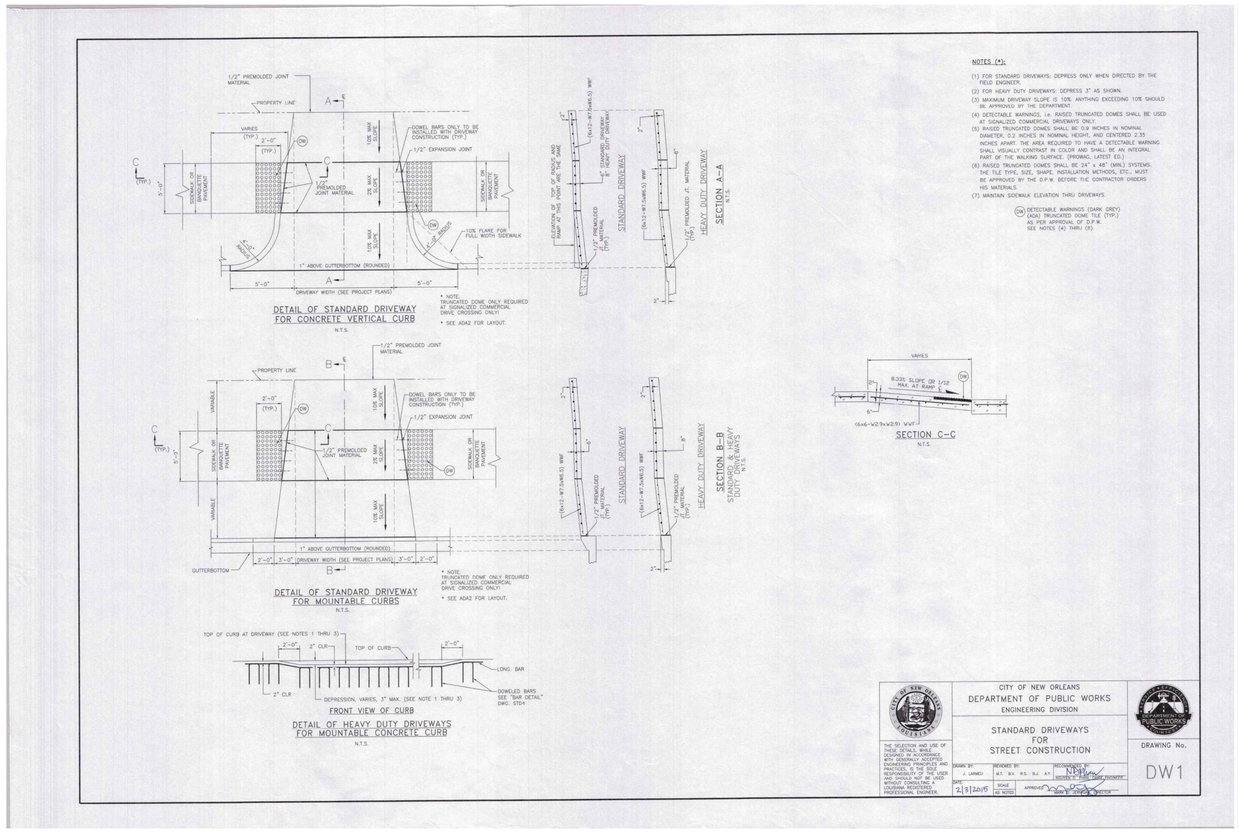

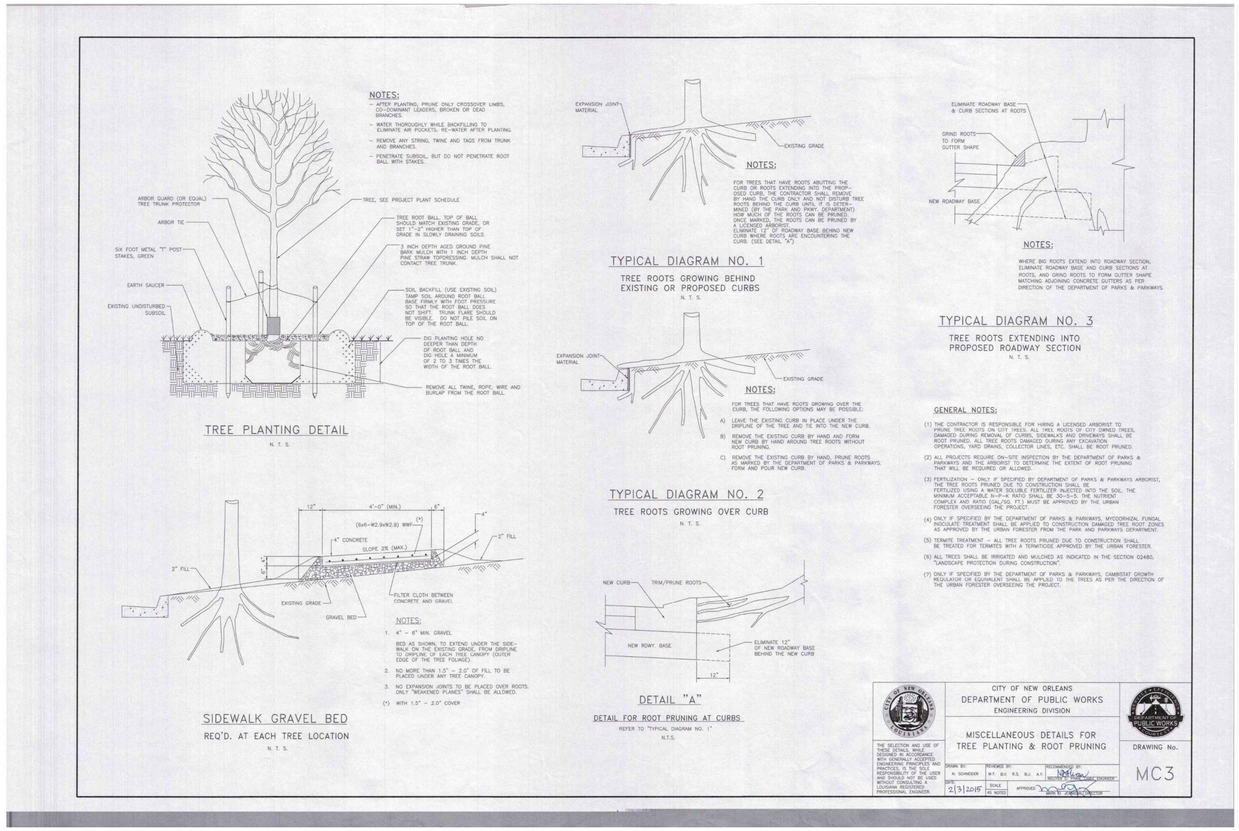

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01-13-2026

WDG Project No: 2024002

SHEET NAME

CITY OF NEW ORLEANS DPW STANDARD DRAWINGS

SHEET NO.

C300

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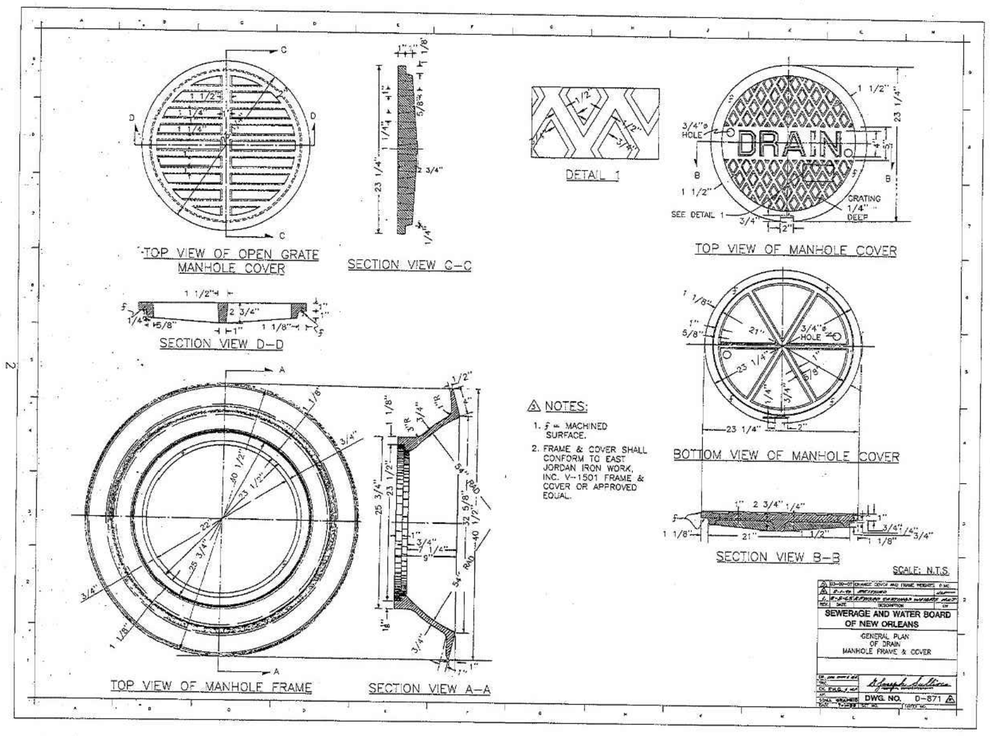
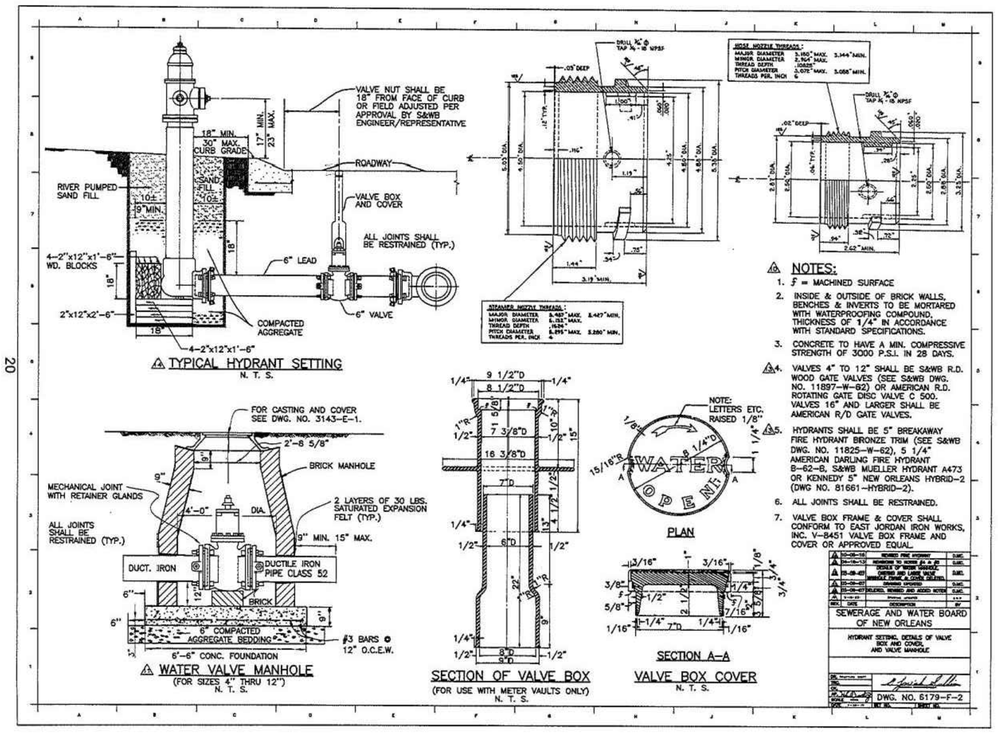
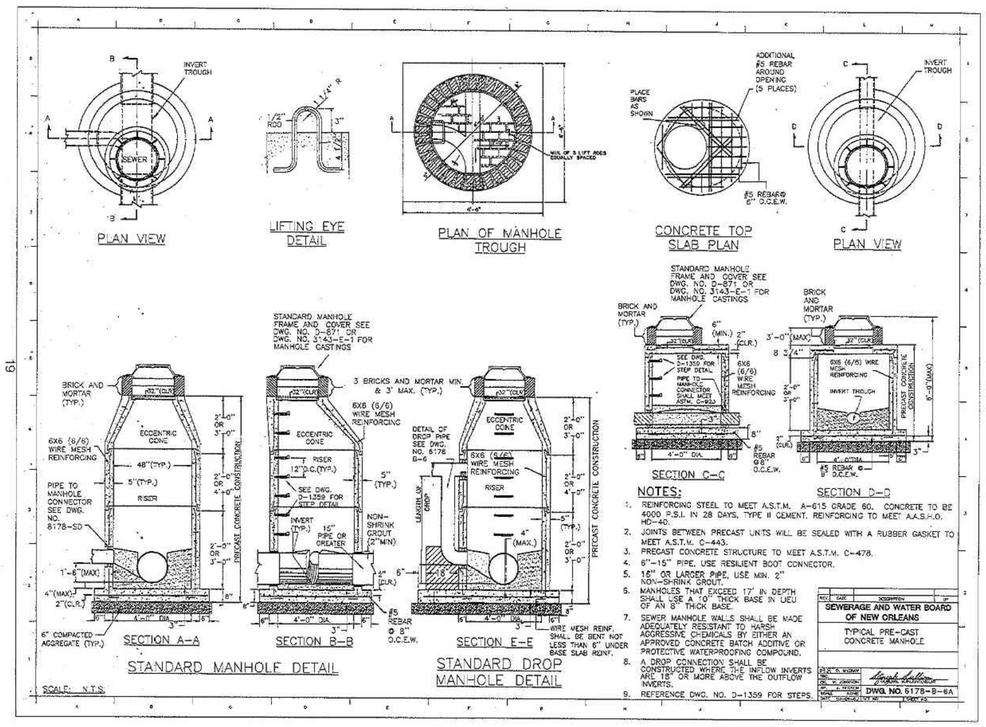
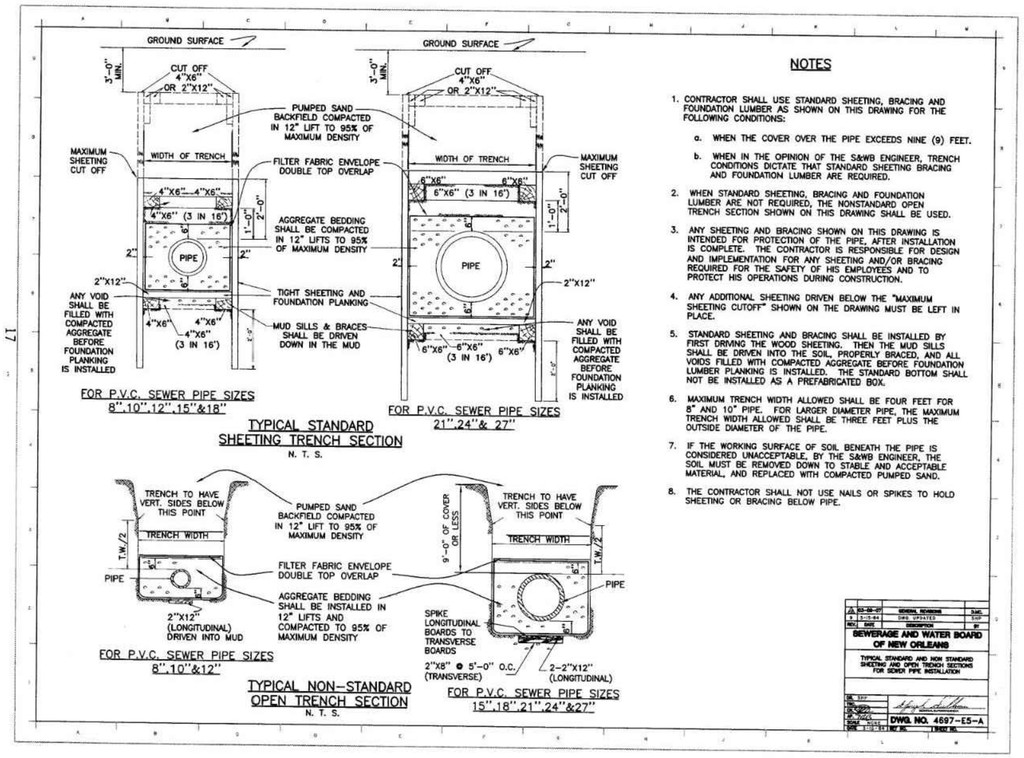
JOB NO. 25001









WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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JONATHAN A. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

WDG Project No: 2024002

SHEET NAME

S&WB OF NEW ORLEANS STANDARD DRAWINGS

SHEET NO. C301

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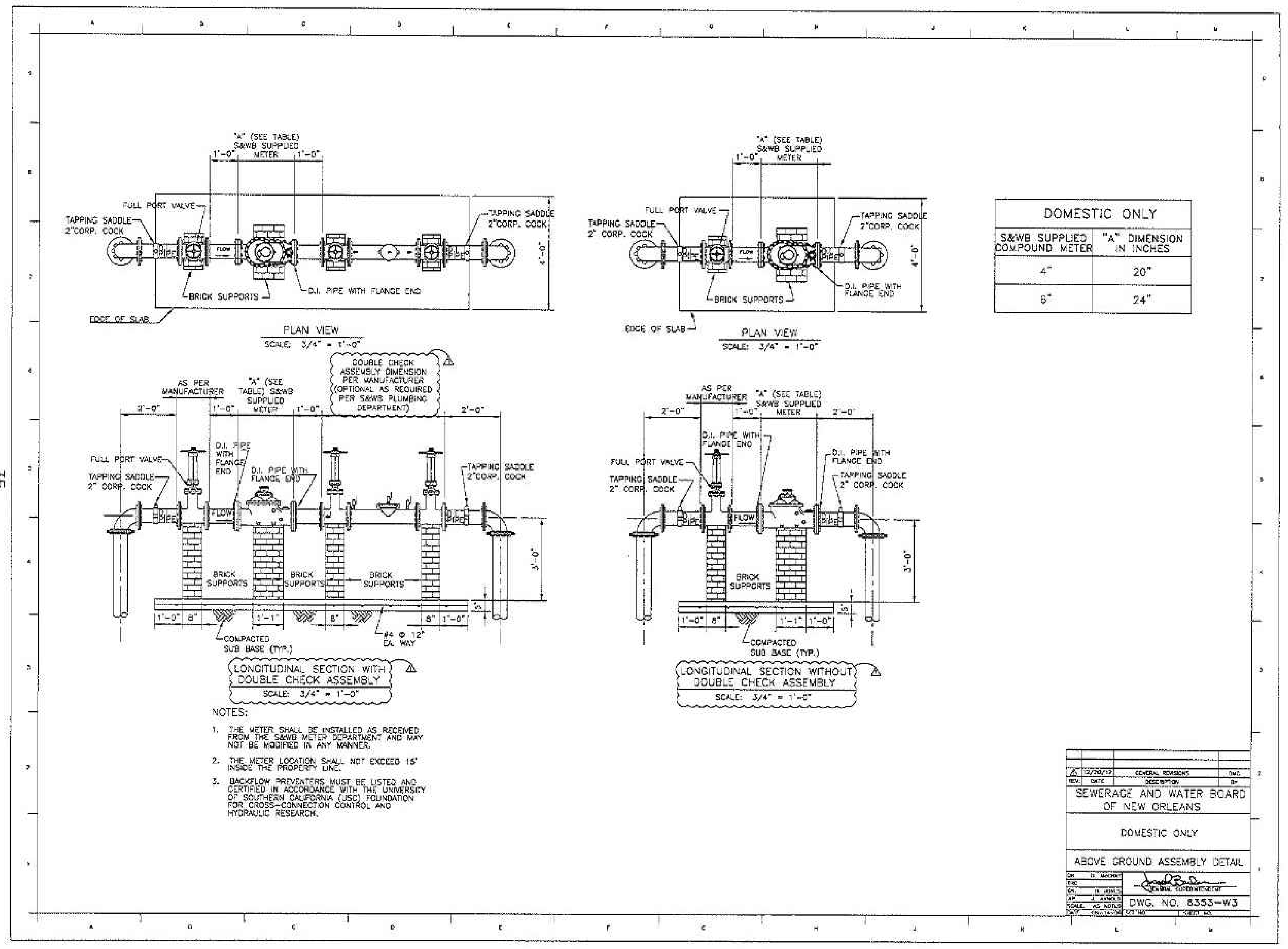
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001



WATER NOTES

I. GENERAL

1. IT IS TO BE UNDERSTOOD THAT ALL REFERENCES TO "THE SEWERAGE AND WATER BOARD (S&WB) ENGINEER" THROUGHOUT THIS DOCUMENT SHALL REFER TO THE GENERAL SUPERINTENDENT OF THE S&WB OR HIS APPOINTED REPRESENTATIVE AND ALL REFERENCES TO "THE S&WB INSPECTOR" THROUGHOUT THIS DOCUMENT SHALL REFER TO THE INSPECTOR ASSIGNED TO THE PROJECT BY THE S&WB ENGINEER. THE S&WB INSPECTOR SHALL REPRESENT THE S&WB ENGINEER IN HIS/HER ABSENCE. IT IS ALSO TO BE UNDERSTOOD THAT ALL REFERENCES TO S&WB DRAWINGS AND SPECIFICATIONS REFER TO THE LATEST EDITION OR REVISION.
2. THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS AND EQUIPMENT REQUIRED FOR THE INSTALLATION OF NEW WATER MAINS, VALVES, MANHOLES, HYDRANTS AND HOUSE CONNECTIONS REQUIRED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.
3. THE S&WB FORCES SHALL BE RESPONSIBLE FOR THE CLOSURE OF ALL WATER VALVES. THE CONTRACTOR SHALL CONTACT THE CHIEF OF NETWORKS AT 2900 PEOPLES AVE., N.O. LA 70122, TWO WEEKS IN ADVANCE OF ANY REQUIRED WATER CLOSURES TO SCHEDULE THE CLOSURES.
4. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE GENERAL SPECIFICATIONS OF THE S&WB. ANY MODIFICATION FROM THE DESIGN DRAWINGS PERTAINING TO S&WB FACILITIES MUST BE APPROVED BY THE S&WB ENGINEER PRIOR TO CONSTRUCTION.
5. PRIOR TO THE INSTALLATION OF S&WB FACILITIES, THE ENTIRE AREA WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING THE ENTIRE WIDTH OF ANY SERVITUDE ADJACENT TO THE FRONT PROPERTY LINE, PLUS AN ADDITIONAL 3 FT. MUST BE FILLED TO THE FINISHED GRADE.
6. ELEVATIONS SHOWN ON THE DRAWING MAY REFER TO THE NAVD 88 OR TO THE CAIRO DATUM. IF THE NOTED ELEVATIONS REFERENCE THE CAIRO DATUM, 0.00 FT. NGVD EQUALS 20.43 FT. CAIRO DATUM.
7. IT IS TO BE UNDERSTOOD THAT WHEREVER SAND IS STIPULATED IN THE SPECIFICATIONS OR DRAWINGS, IT SHALL REFER TO PUMPED MISSISSIPPI RIVER SAND OR ANY NATURAL SAND DEPOSIT MEETING THE REQUIREMENTS OF AASHTO A-3 OR ASTM-SP.
8. THE CONTRACTOR SHALL NOTIFY THE GENERAL SUPERINTENDENT (625 ST. JOSEPH ST., N.O. LA 70165), WITH COPIES TO THE CHIEF OF ENGINEERING (8800 S. CLAIBORNE AVE., N.O., LA 70118), AND THE CHIEF OF CONSTRUCTION ADMINISTRATION AND INSPECTION (8800 S. CLAIBORNE AVE., N.O., LA 70118) OF THE S&WB IN WRITING NOT LESS THAN 3, NOR MORE THAN 10 DAYS IN ADVANCE OF STARTING THE PROJECT SO AS TO SCHEDULE THE INSPECTION OF ANY S&WB WORK. IF THE CONTRACTOR FAILS TO DO SO PRIOR TO STARTING HIS WORK, THE CONTRACTOR SHALL BE REQUIRED TO EXPOSE THE BEDDING ON ALL PIPES OR ANY OTHER CONCEALED WORK PREVIOUSLY INSTALLED IN ORDER TO OBTAIN THE APPROVAL OF THE S&WB INSPECTOR. ANY WORK PERFORMED WITHOUT A S&WB INSPECTOR'S APPROVAL WILL NOT BE ACCEPTED BY THE S&WB, NOR TIED INTO THE S&WB'S DISTRIBUTION SYSTEM.
9. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ELEVATION OF ALL EXISTING STRUCTURE INVERTS AND THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF WORK, AND SHALL BE RESPONSIBLE FOR ANY NEGLIGENCE ON HIS PART IN PROTECTING THEM. THE LOCATION OF SEWER AND WATER HOUSE CONNECTIONS CAN BE OBTAINED FROM THE S&WB.
10. ALL S&WB MAINTAINED WATER FACILITIES INSTALLED BY THE CONTRACTOR WILL BE SUBJECT TO THE APPROVAL OF THE S&WB INSPECTOR. THE CONTRACTOR SHALL PROVIDE THE S&WB INSPECTOR FULL ACCESS TO THE WORK THROUGHOUT CONSTRUCTION AND ABIDE BY ANY JUSTIFIABLE S&WB INSPECTOR'S REQUEST TO EXPOSE ANY AND ALL WORK INSTALLED BY THE CONTRACTOR.
11. BACKFILL MATERIAL FOR ALL UTILITIES SHALL BE SAND COMPACTED MECHANICALLY IN 12 IN. LIFTS. COMPACTION SHALL BE PERFORMED TO 95% MAXIMUM DRY DENSITY, NEAR OPTIMUM WATER CONTENT, AND SHALL MEET THE COMPACTION CHARACTERISTICS OF ASTM D-1557.
12. ALL REMOVED VALVES, HYDRANTS AND CASTINGS SHALL BE RETURNED TO THE S&WB CENTRAL YARD WAREHOUSE LOCATED AT 2900 PEOPLES AVE.

II. PIPE MATERIAL

ALL PIPE, PIPE FITTING, CONNECTORS, CORPORATION STOPS AND APPURTENANCES SHALL BE OF DOMESTIC MANUFACTURE, SHALL BE MADE OF LEAD FREE MATERIAL AND MEET ALL REQUIREMENTS OF AWWA, ASTM AND ANSI FOR USE IN POTABLE WATER DISTRIBUTION SYSTEMS.

A. POLYVINYL CHLORIDE (PVC)

1. ALL NEW WATER MAINS 6 IN. THROUGH 12 IN. SHALL BE SOLID WALL DR 18 PVC PIPE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900 "POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 4 IN. THROUGH 12 IN. FOR WATER DISTRIBUTION." NEW WATER MAINS 16 IN. THROUGH 36 IN. SHALL BE SOLID WALL DR 18 PVC PIPE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C905" POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 14 IN. THROUGH 48 IN. FOR WATER TRANSMISSION AND DISTRIBUTION." PIPE SHALL BE FURNISHED IN STANDARD LENGTHS (MIN. 16 FT.) WITH INTEGRAL CAST BELLS OR COUPLINGS USING ELASTOMERIC GASKETS CONFORMING TO AWWA STANDARD C900, OR TO ASTM D3139 OR F477.
2. FOR PVC WATER LINES, ALL PIPEFITTING SHALL BE DUCTILE IRON AND SHALL CONFORM TO THE FOLLOWING SECTION ON "DUCTILE IRON". ALL NUTS, BOLTS AND WASHERS SHALL BE MANUFACTURED OF STAINLESS STEEL.

B. DUCTILE IRON

1. DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C150, "THICKNESS DESIGN OF DUCTILE-IRON PIPE" AND AWWA STANDARD C151, "DUCTILE IRON PIPE, CENTRIFUGALLY CAST, FOR WATER," SPECIAL THICKNESS CLASS 52. DUCTILE IRON PIPE FOR ABOVE GROUND EXPOSED APPLICATIONS SUCH AS CANAL CROSSINGS, ETC., SHALL BE SPECIAL THICKNESS CLASS 56. DUCTILE IRON PIPE TO BE INSTALLED INSIDE OF AN UNDERGROUND DRAINAGE BOX CANAL SHALL BE SPECIAL THICKNESS CLASS 56. NO JOINTS WILL BE ALLOWED INSIDE THE BOX CANAL.
2. DUCTILE IRON FITTINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C110, "DUCTILE-IRON AND GRAY-IRON FITTING FOR WATER" OR C153, "DUCTILE-IRON COMPACT FITTING, 3 IN. THROUGH 24 IN. AND 54 IN. THROUGH 64 IN. FOR WATER SERVICE.
3. ALL DUCTILE IRON PIPE AND FITTING SHALL HAVE AN ASPHALTIC COATING IN ACCORDANCE WITH AWWA STANDARDS C151 AND C110. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE INSTALLED IN A POLYETHYLENE ENCASEMENT, 8 MILS IN THICKNESS, IN ACCORDANCE WITH AWWA STANDARD C105, "POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPE SYSTEMS". THIS POLYETHYLENE ENCASEMENT SHALL COVER ALL DUCTILE IRON PIPE AND FITTINGS, INCLUDING JOINTS, AND SHALL BE OVERLAPPED A MINIMUM OF 12 IN. BETWEEN SECTIONS AND SEALED WITH BLACK POLYETHYLENE TAPE.
4. DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED WITH CEMENT MORTAR. THE CEMENT MORTAR LINING SHALL COMPLY WITH AWWA STANDARD C104, "CEMENT-MORTAR LINING FOR DUCTILE-IRON PIPE AND FITTING FOR WATER".
5. JOINTS FOR DUCTILE IRON PIPE AND FITTINGS FOR BELOW GROUND APPLICATIONS SHALL BE PUSH-ON TYPE OR MECHANICAL JOIST WITH RUBBER GASKETS IN ACCORDANCE WITH AWWA STANDARD C111, "RUBBER GASKET JOINTS FOR DUCTILE IRON PRESSURE PIPE AND FITTINGS". JOINTS FOR DUCTILE IRON PIPE AND FITTINGS FOR ABOVE GROUND EXPOSED APPLICATIONS SUCH AS CANAL CROSSINGS, ETC., SHALL BE AMERICAN "FLEX-RING" OR U.S. PIPE "TR FLEX" OR APPROVED EQUAL. (U.S. PIPE "FIELD LOK 350 GASKET" AND AMERICAN "FAST-FRIP GASKET" ARE NOT ALLOWED). ALL JOINTS SHALL BE RESTRAINED PER MANUFACTURERS RECOMMENDATIONS. ANY REQUIRED DUCTILE IRON FLANGES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C115, "FLANGED DUCTILE IRON PIPE WITH DUCTILE IRON OR GRAY IRON THREADED FLANGES". STAINLESS STEEL BOLTS AND NUTS SHALL BE USED ON BOLTED FITTINGS, VALVES, SADDLES, ETC.

C. OTHER MATERIALS

STEEL, FIBERGLASS REINFORCED PIPE (FRP), AND HIGH DENSITY POLYETHYLENE (HDPE) ARE MATERIALS THAT HAVE BEEN APPROVED FOR INSTALLATION WITHIN THE WATER SYSTEM. THE SPECIFICATIONS FOR THESE MATERIALS WILL BE JOB SPECIFIC.

III. WATER MAIN INSTALLATION

1. THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH FROM ALL OTHER UTILITIES. THE MINIMUM ALLOWABLE HORIZONTAL DISTANCE BETWEEN THE WATER MAIN AND THE SEWER MAIN SHALL BE 6 FT., AND A MINIMUM VERTICAL SEPARATION OF 18 IN. AS STIPULATED IN LOUISIANA ADMINISTRATIVE CODE TITLE FIFTY-ONE (51) PUBLIC HEALTH-SANITARY CODE PART XII WATER SUPPLIES. THE MINIMUM ALLOWABLE HORIZONTAL DISTANCE BETWEEN THE WATER MAIN AND ALL OTHER UTILITIES SHALL BE 3 FT., AND A MINIMUM VERTICAL CLEARANCE OF 6 IN. ABOVE AND 12 IN. BELOW OTHER UTILITIES. IN INSTANCES WHERE A NEW WATER MAIN IS REPLACING AN EXISTING, THE NEW MAIN MUST BE A MINIMUM OF 3 FT. FROM THE EXISTING MAIN AND THE EXISTING MAIN MUST BE KEPT IN SERVICE UNTIL THE NEW MAIN IS TIED IN. THE MINIMUM COVER FOR A WATER MAIN IS AT 3.5 FT. ALL DIMENSIONS BETWEEN UTILITIES SHALL BE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
2. THE CURVATURE OF THE WATER MAINS IN CUL-DE-SACS SHALL BE ACCOMPLISHED WITH POLYETHYLENE PE 3406 OR PE 3408 TUBING MATERIAL WITH LEAD FREE BRASS FITTINGS, USUALLY A 2 IN. MINIMUM DIAMETER LINE.
3. THE INSTALLATION OF ALL PIPE SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS AND THE APPLICABLE REQUIREMENTS OF SECTION F OF THE S&WB GENERAL SPECIFICATIONS. THE TRENCH BOTTOM SHALL BE SMOOTH AND FREE FROM ROOTS, ROCKS, ETC. THE PIPE SHALL BE LAID ON A 6 IN. BED OF SAND FOR THE FULL WIDTH OF THE TRENCH AND COMPACTED TO 95% STANDARD PROCTOR DENSITY AT OR NEAR THE OPTIMUM MOISTURE CONTENT. THE SAND SHALL BE PLACED AND CONSOLIDATED UNDER THE PIPE HAUNCHES TO PROVIDE ADEQUATE SIDE SUPPORT TO THE PIPE AVOIDING DISPLACEMENT AND MISALIGNMENT. THE REMAINDER OF THE TRENCH SHALL BE FILLED WITH SAND COMPACTED TO THE SPECIFIED GRADE AS REQUIRED BY THE S&WB GENERAL SPECIFICATIONS.
4. LUBRICANT FOR GASKETED PIPE AND FITTINGS SHALL BE SUITABLE FOR POTABLE WATER SYSTEMS AND SHALL CONFORM TO AND BE CERTIFIED BY BOTH OF THE FOLLOWING STANDARDS:
   A. ANSI.NSF 14: PLASTIC PIPING SYSTEMS COMPONENTS AND RELATED MATERIALS.
   B. ANSI/NSF 61: DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS.
   THE USE OF OLEATE-BASED LUBRICANTS IS NOT PERMITTED FOR NEW WATER MAIN INSTALLATIONS DUE TO ODOR AND TASTE TRANSFER PROBLEMS.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CLEANLINESS OF THE MAIN UNTIL COMPLETION OF THE WORK AND FINAL ACCEPTANCE OF THE CONTRACT. AT THE END OF EACH DAY'S WORK, OR STOPPAGE OF WORK, THE CONTRACTOR MUST PROVIDE AN APPROVED TEMPORARY WATERTIGHT PLUG AT EACH OPEN END. WHEN WORK IS RESUMED, THE TRENCH MUST BE FREE OF WATER AND DIRT BEFORE THE PLUG IS REMOVED.
6. THE CONTRACTOR SHALL MAKE ALL TIE-INS AND SHALL PROVIDE ALL MATERIAL FOR TIE-INS AS SPECIFIED IN THE CONTRACT DRAWINGS. THE TIE-IN SHALL BE CONFIGURED IN SUCH A MANNER TO REQUIRE 18 LINEAR FEET OF PIPE OR LESS. THE S&WB DOES NOT ALLOW INSTALLATION OF PIPE RUNS GREATER THAN 18 LINEAR FEET WITHOUT HYDROSTATIC PRESSURE TESTING AND CHLORINATION. ALL PIPE USED IN THE TIE-IN SHALL BE THOROUGHLY CLEANED AND SWABBED WITH A 1-5 PERCENT HYPOCHLORITE DISINFECTING SOLUTION JUST PRIOR TO BEING INSTALLED, AS RECOMMENDED BY AWWA C651. TIE-INS SHALL ONLY BE MADE ONCE THE CHLORINATION PROCESS HAS BEEN APPROVED.
7. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE S&WB PRIOR TO MAKING TIE-INS, AND SHALL WORK CONTINUOUSLY UNTIL COMPLETION ON ALL TIE-INS AND WATER SERVICES ARE RESTORED. WATER SERVICES WILL NOT BE INTERRUPTED UNTIL ALL CREWS AND EQUIPMENT ARE ON SITE WITH THE CONNECTION EXPOSED, AND PREPARED TO BEGIN THE TIE-IN. IN ADDITION, THE CONTRACTOR MUST SHOW THAT THE N.O. FIRE DEPT. AND AFFECTED RESIDENTS HAVE BEEN NOTIFIED 24 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO LIMIT RESIDENTIAL CLOSURES.

IV. METER MANHOLES, VAULTS & BOXES

1. WHERE MANHOLES OR VAULTS ARE REQUIRED WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND CONSTRUCTION OF THE METER MANHOLE OR VAULT IN ACCORDANCE WITH THE S&WB GENERAL SPECIFICATIONS SECTION F-12. METER SIZES 1 IN. AND SMALLER SHALL BE INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY IN A METER BOX AS SHOWN ON S&WB DWG. NO. 7134-W. METER SIZES 1 1/2 AND 2 IN. INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE INSTALLED IN MANHOLES AS SHOWN ON S&WB DWG. NO. 7332-W. METER SIZES 4 IN. TO 12 IN. INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE INSTALLED IN VAULTS AS SHOWN ON S&WB DWG. NO. 7531-W.
2. ALL MANHOLE FOUNDATION SLABS SHALL BE PLACED ON A 6 IN. LAYER OF CRUSHED STONE OR APPROVED EQUAL BEDDING MATERIAL.
3. METER BOXES SHALL BE ADJUSTED TO FINAL GRADE. THERE SHALL BE NO SEPARATION BETWEEN THE BARREL AND LOWER METER PAN. NO ADJUSTMENT

V. HOUSE CONNECTIONS

1. WATER HOUSE CONNECTIONS SHALL BE INSTALLED AT THE CENTER OF EACH LOT UNLESS OTHERWISE APPROVED BY THE S&WB ENGINEER. WHEN THE WATER MAIN IS LOCATED OUTSIDE OF THE ROADWAY AND SERVICE CONNECTIONS ARE REQUIRED ON THE OPPOSITE SIDE OF THE STREET, THE CONTRACTOR SHALL FURNISH AND INSTALL PVC CONDUIT PIPE (MIN 0.216 IN. WALL THICKNESS, MIN. 3 IN. DIAMETER) WITH ENDS TEMPORARILY SEALED. FOR NEW CONSTRUCTION, THE LOCATION OF ALL WATER HOUSE CONNECTIONS SHALL BE IMPRINTED ON THE CURB WITH THE LETTER "W" NOT LESS THAN 3 IN. HIGH AND 1/4 IN. DEEP. SIZE OF TAP, CORPORATION COCK AND POLYETHYLENE PIPE SHALL BE 1" FOR 5/8 IN. TO 1 IN. METERS AS SHOWN ON S&WB DWG. NO. 7134-W.
2. ALL BRONZE/BRASS FITTINGS, CONNECTORS, CORPORATION STOPS AND APPURTENANCES SHALL BE OF DOMESTIC MANUFACTURE, SHALL BE MADE OF LEAD FREE BRONZE/BRASS, AND MEET ALL REQUIREMENTS OF AWWA, ASTM AND ANSI FOR USE IN THE POTABLE WATER DISTRIBUTION SYSTEMS.
3. NO DIRECT TAPPING OF THE PIPE WILL BE PERMITTED FOR MAKING HOUSE CONNECTIONS. SERVICE SADDLES SHALL BE BRONZE CLOW NO. 3407 G, J. JONES J-996, MUELLER SERIES H-13400, S90 FORD BRASS SADDLE, OR FORD FC202. THE CONTRACTOR SHALL USE ONLY SHELL TYPE HOLE CUTTERS THAT WILL RETAIN THE COUPON.

VI. METERS

1. REQUIRED METERS WILL BE FURNISHED BY THE S&WB AT NO ADDITIONAL COST TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND CONSTRUCTION OF THE METER BOX, AND METER MANHOLE OR VAULT.
2. THE METER SHALL BE INSTALLED AS RECEIVED FROM THE S&WB METER DEPARTMENT AND MAY NOT BE MODIFIED IN ANY MANNER. ANY MODIFICATIONS WILL VOID THE UL WARRANTY AND, AS SUCH, MAY SUBJECT THE OWNER TO FINANCIAL PENALTY AND LOSS OF SERVICE.
3. METERS INSTALLED ON PRIVATE PROPERTY SHALL BE INSTALLED AS SHOWN ON S&WB DWG. NO. 8353-W AND MEET THE REQUIREMENTS OF THE S&WB PLUMBING DEPARTMENT.

VII. VALVES AND HYDRANTS

1. VALVES 4 IN. TO 12 IN. INSTALLED IN THE PUBLIC RIGHT-OF-WAY SHALL BE S&WB R.D. WOOD GATE VALVES AS SHOWN IN S&WB DWG. 11897-W-62 OR AMERICAN RD ROTATING GATE DISC VALVE C 500 WITH ADJUSTABLE PACKING. VALVES 16 IN. AND LARGER SHALL BE AMERICAN R/D GATE VALVES. ALL VALVES MUST BE INSTALLED IN MANHOLES, AND LOCATED AT THE PROJECTION OF THE PROPERTY LINE.
2. HYDRANTS SHALL BE 5 IN. BREAKAWAY FIRE HYDRANT BRONZE TRIM AS DETAILED IN S&WB DWG. NO. 11825-W-62, 5 1/4" IN. AMERICAN DARLING FIRE HYDRANT B-62-B, S&WB MUELLER HYDRANT A473 AS DETAILED IN MUELLER DRAWING NO. FH 285 AND 5" NEW ORLEANS HYBRID-2 AS DETAILED IN KENNEDY VALVE DRAWING NO. 81661-HYBRID-2. FOR DETAILS OF SETTING HYDRANTS SEE S&WB DWG. NO. 6179-F-2. HYDRANT LEADS SHALL BE 6" SOLID WALL PVC PIPE CLASS 150, AWWA STANDARD C-900. ALL HYDRANT LEAD JOINTS SHALL BE RETRAINED. A 6" VALVE WITH VALVE BOX SHALL BE INSTALLED ON ALL HYDRANT LEADS. HYDRANTS SHALL BE INSTALLED WITH WOOD BLOCKING AND BE SPACED NOT MORE THAN 350 FT. APART, 6 FT. OFF THE PROJECTED PROPERTY LINE ON CORNER LOTS AND WITHIN 5 FT. OF THE CENTER OF THE LOT FOR INTERIOR LOTS.

VIII. TESTING, CHLORINATION AND FLUSHING

1. ALL NEW MAINS, VALVES, HYDRANTS AND SERVICES SHALL BE INSTALLED PRIOR TO PRESSURE TESTING. THE SYSTEM SHALL BE PRESSURE TESTED BY THE CONTRACTOR IN THE PRESENCE OF THE S&WB INSPECTOR AND IN ACCORDANCE WITH PARAGRAPH F-15 OF THE GENERAL SPECIFICATIONS. THE TEST SHALL BE SCHEDULED BY THE S&WB INSPECTOR. ALL AIR SHALL BE BLED FROM THE SYSTEM PRIOR TO TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED AS A RESULT OF TEST FAILURES, INCLUDING REPAIRS TO DEFECTS.
2. ALL NEW AND/OR MODIFIED SEGMENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE TESTED TO 100 P.S.I. THIS PRESSURE SHALL BE MAINTAINED FOR A MINIMUM PERIOD OF TWO (2) HOURS WITH NO DISCERNIBLE PRESSURE LOSS. LEAKS SHALL BE REPAIRED BY REMOVING AND REPLACING FAULTY SECTIONS. THE PRESSURE TEST SHALL BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECT SUPERVISION OF THE ENGINEERING DEPARTMENT. BEFORE BEING PLACED IN SERVICE, ALL NEW, MODIFIED AND/OR CONTAMINATED SEGMENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE FLUSHED AND DISINFECTED (CHLORINATED) BY THE ENGINEERING DEPARTMENT PERSONNEL OR UNDER THEIR DIRECT SUPERVISION. FLUSHING SHOULD BE DONE AT FLOW RATES SUFFICIENT TO PROVIDE A VELOCITY IN THE LINES OF AT LEAST 2.5 FEET PER SECOND. DISINFECTION SHOULD COMPLY WITH AWWA STANDARD C651, "DISINFECTING WATER MAINS". ONLY AFTER SATISFACTORY PRESSURE TESTING AND DISINFECTION (CHLORINATION) IS COMPLETED CAN THE SEGMENT BE TIED INTO THE EXISTING WATER DISTRIBUTION SYSTEM. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO MAKE A TIE-IN TO THE EXISTING WATER DISTRIBUTION SYSTEM WITHOUT DIRECT SUPERVISION OF THE ENGINEERING DEPARTMENT. ALL COSTS ASSOCIATED WITH THE TESTING AND CHLORINATION PROCEDURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR FAILED CHLORINATION.
3. THE CONTRACTOR SHALL INSTALL THE FLUSHING APPARATUS IN ACCORDANCE WITH S&WB DWG. NOS. 7004-W AND 7005-W. THE CONTRACTOR SHALL FLUSH THE NEWLY INSTALLED PIPING SYSTEM WITH MAXIMUM FLOW PRIOR TO THE CHLORINATION BY THE S&WB.
4. THE CONTRACTOR SHALL NOTIFY THE S&WB 1 WEEK IN ADVANCE OF THE DESIRED CHLORINATION DATE. CHLORINATION OF THE WATER MAINS SHALL BE PERFORMED BY THE S&WB IN ACCORDANCE WITH PAR. F-16 OF THE GENERAL SPECIFICATIONS. THE S&WB FORCES WILL REQUIRE APPROXIMATELY 4 WORKING DAYS, WEATHER PERMITTING, TO CONDUCT AND PROVIDE TEST RESULTS OF THE SYSTEM. IF THE INITIAL DISINFECTION DOES NOT PRODUCE SATISFACTORY SAMPLES, THE PROCESS SHALL BE REPEATED AND THE CONTRACTOR SHALL BE ASSESSED AS STATED BELOW.
5. THE S&WB WILL PERFORM THE INITIAL CHLORINATION OF THE MAINS AT NO CHARGE TO THE CONTRACTOR. THE S&WB WILL CEASE OPERATION UNTIL THE SYSTEM IS FLUSHED AND MADE CLEAN BY THE CONTRACTOR. THE CONTRACTOR SHALL BEAR ANY AND ALL COSTS ASSOCIATED WITH RECHLORINATION OF THE SYSTEM.
6. THE NEW MAIN MUST BE CONNECTED TO THE S&WB'S SYSTEM WITHIN 72 HOURS OF NOTIFICATION OF PASSING THE CHLORINATION TEST. FAILURE TO COMPLETE THE TIE-INS WITHIN THIS TIME LIMITATION WILL RESULT IN RETESTING THE NEW MAIN AT THE EXPENSE OF THE CONTRACTOR.

IX. INSPECTION

ALL INSTALLATION OF WATER MAINS AND RELATED APPURTENANCES WILL BE PERFORMED UNDER THE INSPECTION OF, AND TO THE SATISFACTION OF THE S&WB INSPECTOR THROUGHOUT THE COURSE OF THE WORK.

X. FINAL ACCEPTANCE

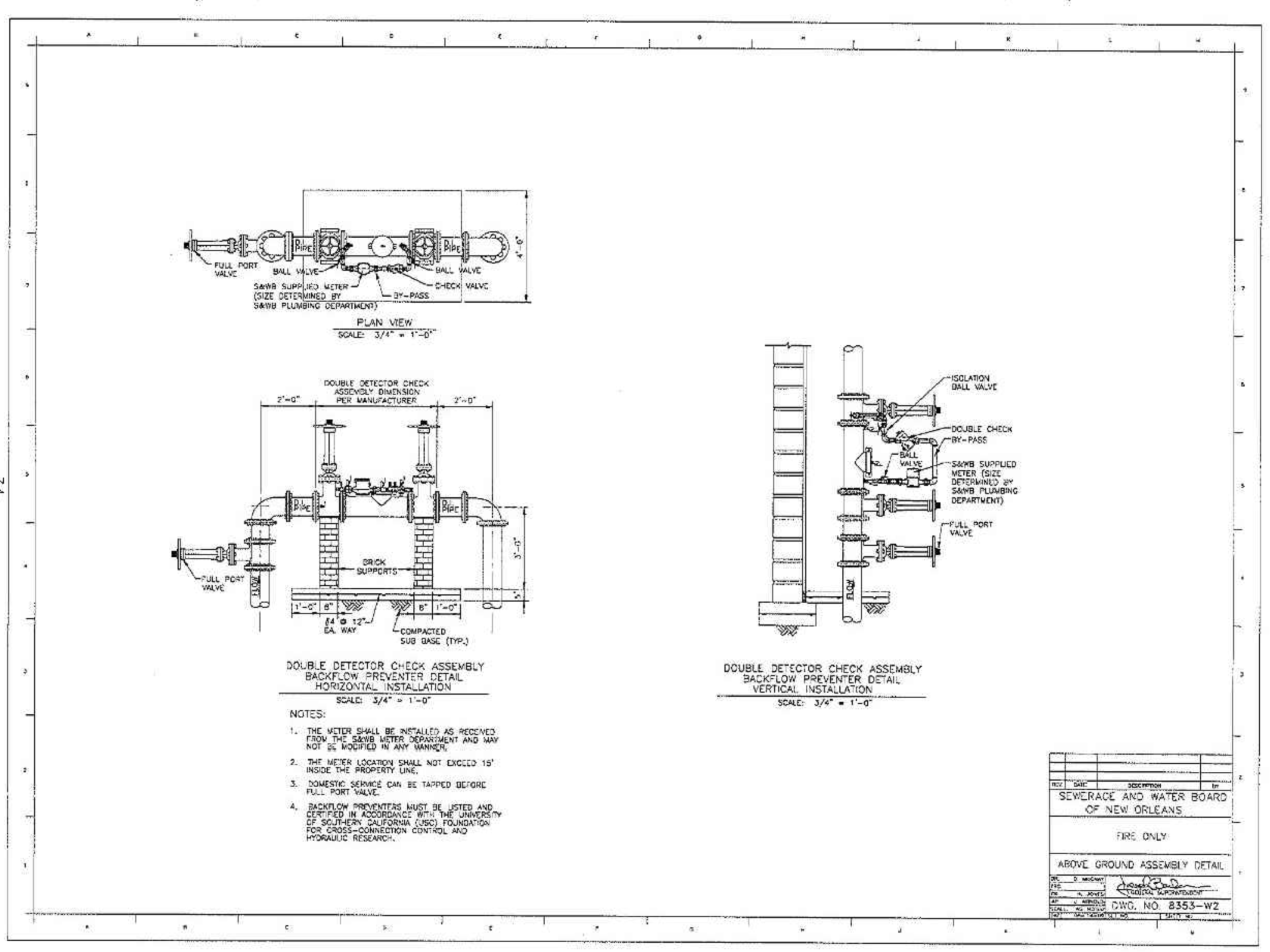
1. THE NEW WATER MAINS AND APPURTENANCES MUST BE INSTALLED LEVEL, AT PROPER GRADE, HAVE PASSED ALL REQUIRED TESTS, AND MUST BE TIED INTO THE EXISTING WATER SYSTEM PRIOR TO OBTAINING FINAL ACCEPTANCE.
2. BEFORE FINAL INSPECTION OF THE SYSTEM, THE CONTRACTOR SHALL SUBMIT AN "AS-BUILT" DRAWING TO THE S&WB SHOWING ANY CHANGES IN LINE OR GRADE FROM THE ORIGINAL DRAWINGS, AS WELL AS SHOWING THE LOCATION OF ALL HOUSE CONNECTIONS, IN ACCORDANCE WITH S&WB REQUIREMENTS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CERTIFY THAT THE "AS-BUILT" DRAWINGS ARE CORRECT. ANY INACCURACY AS DETERMINED BY THE S&WB IN THE "AS-BUILT" DRAWINGS SHALL BE CORRECTED AT THE COST OF THE CONTRACTOR.
3. THE CONTRACTOR MUST CONTACT THE S&WB TO SET A DATE FOR FINAL INSPECTION. IN THE EVENT THE CONTRACTOR CALLS FOR AN INSPECTION AND THE WORK IS NOT ADEQUATELY COMPLETE, A NEW INSPECTION DATE WILL THEN BE SET AT THE DISCRETION OF THE S&WB INSPECTOR.
4. FINAL ACCEPTANCE OF THE SYSTEM WILL BE SUBJECT TO A 1 YEAR MAINTENANCE PERIOD FOLLOWING FINAL ACCEPTANCE OF THE PROJECT BY THE S&WB.

REV. | DATE | DESCRIPTION | BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

SPECIFICATIONS FOR INSTALLATION OF WATER MAINS

DR. D. MC. TRC. CK. M. J. AP. R. S. SCALE NONE DATE 08-19-15 — GENERAL SUPERINTENDENT — DWG. NO. 7260-W — SHEET NO. 2



SEWER NOTES

I. GENERAL

1. It is to be understood that all references to "The Sewerage and Water Board (S&WB) Engineer" throughout this document shall refer to the General Superintendent of the S&WB or his appointed representative, and all references to "The S&WB Inspector" throughout this document shall refer to the inspector assigned to the project by the S&WB Engineer. The S&WB Inspector shall represent the S&WB Engineer in his/her absence. It is also to be understood that all references to S&WB drawings and specifications refer to the latest edition or revision.
2. The Contractor shall have an individual with a Wastewater Collection Class IV license, obtained through the Louisiana Department of Health and Hospitals, on site at all times during the installation of the sewer lines and appurtenances.
3. The Contractor shall furnish all labor, supervision, materials, and equipment required for the installation of new sewer mains, manholes, house connections, etc., required by the project drawings and specifications.
4. All workmanship and materials shall conform to the General Specifications of the S&WB. Any modification from the design drawings must be approved by the S&WB Engineer prior to construction.
5. Prior to the installation of any S&WB facilities, the entire area within the public right-of-way, including the entire width of any servitudes adjacent to the front property line, plus an additional 3 ft. must be filled to the finished grade.
6. All elevations shown on the drawings refer to Cairo Datum in which 0.00 ft. NGVD is equal to 20.43 ft. Cairo Datum.
7. It is to be understood that wherever sand is stipulated in the specifications or drawings, it shall refer to pumped Mississippi River sand or any natural sand deposit meeting the requirements of AASHTO A-3 or ASTM-SP.
8. The Contractor shall notify the General Superintendent (625 St. Joseph St. N.O. LA 70165), with copies to the Chief of Engineering (8800 S. Claiborne Ave N.O. LA 70118), and the Chief of Construction Administration and Inspection (8800 S. Claiborne Ave N.O. LA 70118) of the S&WB in writing not less than three nor more than ten days in advance of starting the project so as to schedule the inspection of any S&WB work. Failure to do so prior to starting this work shall require the Contractor to expose the bedding on all pipe, or any other concealed work previously installed in order to obtain the approval of the S&WB Inspector. Any work performed without an S&WB Inspector's approval will not be accepted by the S&WB nor tied into the S&WB's collection system.
9. The location of existing utilities shown on the drawings should be considered approximate. The Contractor shall verify the elevation of all existing structure inverts and the location of all existing utilities prior to the start of work, and shall be responsible for any negligence on his part in protecting them. The location of sewer and water house connections can be obtained from the S&WB.
10. All S&WB maintained sewer work performed by the Contractor would be subject to the approval of the S&WB Inspector. The Contractor shall provide the S&WB Inspector full access to the work throughout construction and abide by any justifiable S&WB Inspector's request to expose any and all work installed by the Contractor.
11 Backfill material for all utilities shall be sand either compacted mechanically in 6 in. lifts or flooded in 3 ft. lifts. Compaction shall be performed to 95% maximum dry density, near optimum water content, and shall meet the compaction characteristics of ASTM D-1557.
12. Specifications for sewer force main pipe shall be job specific.

II. PIPE MATERIAL

1. Material for sewer mains shall be solid wall PVC pipe, manufactured in accordance with ASTM D-3034 specifications and to a SDR (strength dimension ratio) of 26 with elastomeric gaskets. The elastomeric gaskets and retainer rings shall be installed by the manufacturer in accordance with ASTM D-3212 and F-477.
2. The fittings for solid wall PVC pipe shall be the same inside diameter as the solid wall PVC with an SDR of 35.
3. PVC sewer mains, sizes 18 in. through 27 in. shall be solid wall PVC pipe conforming to ASTM F-679.
4. The maximum allowable compression for installed PVC sewer pipe is 7.5 percent (7.5%) of its original vertical inside diameter. Pipe exceeding this allowable compression shall be removed and replaced with new pipe, reinstalled at the Contractor's expense.
5. At points of tie-ins to the existing system, the new pipe material should match the existing. If the new material does not match the existing material, the connection shall be made with the use of a coupling and bushing adapter intended for that purpose, ARC (Mission Rubber Co.), FERNCO, or equal, conforming to ASTM C-425.
6. Ductile iron pipe shall be used where specified on the construction drawings and shall conform to Section II-B, "Ductile Iron" of the S&WB 7260 Water Notes except that the interior lining shall be polyethylene, "Polybond", or approved equal, and must be factory installed with 40 mils nominal thickness.

III. SEWER MAIN INSTALLATION

1. The sewer main must be laid in a separate trench from all other utilities. The minimum allowable horizontal distance between the sewer main and the water main shall be 6 ft., and a minimum vertical separation of 18 in. as stipulated in Louisiana Administrative Code Title Fifty-One (51) Public Health-Sanitary Code Part XII Water Supplies. The minimum allowable horizontal distance between the sewer main and other utilities shall be 3 ft., and a minimum vertical clearance of 12 in. above or 12 in. below other utilities. For payment purposes, depths of sewer mains shall be determined by the average measurements from inverts to the top of castings at finished grade of connecting manholes. All dimensions between utilities shall be measured from outside diameter to outside diameter.
2. Sewer mains and interconnecting manholes shall be installed at elevations indicated on the plans unless changed by the S&WB Engineer. All mains must be laid continuously from manhole to manhole, laid from the low end of the system with the bell facing upstream, and must be of the same size pipe diameter. The minimum depth of a sewer main shall be 5.5 ft. from surface to invert.
3. Installation of the solid wall PVC pipe shall conform to Section D, "The Construction of Sewers," of the General Specifications of the S&WB. The trench bottom shall be smooth and free from rocks, roots, etc. After the sheeting and/or foundation lumber is placed, the pipe shall be laid on a smooth bed of approved bedding material. Bedding and foundations for mains and standard sheeting and bracing shall comply with S&WB Dwg. No. 4697-E5A. The bedding material shall be extended under, around, and over the top of the pipe and compacted in layers not greater than 6 in. by a mechanical vibrating compactor approved by the S&WB Engineer until a minimum of 95% standard proctor density is attained at or near optimum moisture content for the full width of the trench. The bedding material shall be Class I Angular Material (1/4 in. to 1-1/2 in.), ASTM D2321 or ASTM C33. The S&WB Engineer reserves the right to approve the type of bedding material to be used.
4. Filter fabric shall be installed around the bedding and under the backfill in all sewer installations as shown in S&WB Dwg. No 4697-E5A, and conform by weight to ASTM D1910. The filter fabric shall be DOTD Class C or D, non-woven pervious sheets of plastic yarn MiraFi 170N, or an equal approved by the S&WB Engineer, constructed so the yarns will retain their relative position with respect to each other. Edges of the fabric shall be finished to prevent the outer yarn from pulling away from the fabric. The fabric shall be installed as follows:
   a. After the trench is excavated, the foundation lumber shall be placed in the bottom of the trench as shown on the standard drawings. The filter fabric shall be cut to the needed width, including allowances for "loose" placement in the trench, with a double overlap on top of the bedding material after placement. The fabric shall be laid over the foundation lumber in the trench along the pipes alignment with an 18 in. minimum overlap at the ends of subsequent lengths. Care should be taken to place the fabric tightly against the soil so that no voids occur outside the fabric. Wrinkles or folds should be avoided. The sides of the fabric which will be used as a double-top overlap should temporarily be pinned to the sides of the trench.
   b. After installing the fabric, an initial 6 in. layer of bedding material shall be placed and compacted to the proper grade before placing the sewer pipe. The remainder of the bedding material shall then be placed around and above the pipe and compacted. Compaction is required to seat the fabric and bedding material against the trench wall and to reduce settlement.
   c. After compaction, the two edges of the filter fabric shall be unfastened and overlapped for the full width of the trench on top of the bedding material. The backfill material shall then be placed on top of the filter fabric and compacted.

IV. MANHOLES

1. Manholes shall conform to Section D of the General Specifications and S&WB Dwg. Nos. D-870. Short sections of pipe with bell fittings and water stops, as recommended by the manufacturer and as shown on S&WB Dwg. No. 8178-SD, shall be used as connectors for brick manholes. As an alternative, a sand impregnated PVC stub, approved by the S&WB Engineer, may be used and grouted in place using a type three high early strength cement, or quick setting EMBECO, or similar material approved by the S&WB Engineer. KOR-N-SEAL Boots, or approved equal, as shown on S&WB Dwg. No. 8178-SD, shall be used for precast manhole pipe connections.
2. Manhole steps shall conform to S&WB Dwg. No. D-1359.
3. Abandoned sewer mains must be plugged in the manhole. Walls of abandoned manholes shall be removed to a minimum of 2 ft. below finished grade and the abandoned manholes must be filled with sand and flooded. Castings and covers are to be removed and returned to the S&WB Central Yard, 2900 Peoples Ave N.O. LA 70122.
4. All manhole foundation slabs shall be placed on a 6 in. layer of crushed stone or approved equal bedding material in accordance with S&WB Dwg. No. D-870.

V. HOUSE CONNECTIONS

1. House Connections shall be installed using 6 in. solid wall SDR 26 PVC pipe extended to the property line as shown on S&WB Dwg. No. 6312-E5. The use of saddles will not be permitted; all such connections shall be made with the use of approved fittings. All pipe and fittings shall be the same material as the sewer main unless otherwise approved by the S&WB Engineer. House Connections shall have a minimum of 3.5 ft. and a maximum of 4.5 ft. of cover, measured from the gutter line and from the ground surface at the property line. The house connection shall end at the property line or extend through any proposed servitudes adjacent to the property line with a rubber gasketed plastic cap. House connections shall not require bracing, foundation lumber, or bedding. The location of all sewer house connections shall be imprinted on the curb with an "S", 3 in. high and ¼ in. deep as shown on S&WB Dwg. No. 6312-E5.

VI. TESTING AND INSPECTION

1. All installation of sewer mains and related appurtenances will be performed under the inspection of, and to the satisfaction of the S&WB Inspector throughout the course of the work.
2. Infiltration rate for newly installed gravity mains shall be zero gallons. Infiltration test rates for force mains shall not exceed a rate of 250 gallons per in. of diameter per mile, per 24 hours, shall be conducted by the Contractor and observed by the S&WB representative. This test shall be performed only after the backfilled trench has remained flooded for at least 12 hours prior to the test. The trench shall remain flooded during the test. The Contractor shall furnish all material, labor and equipment necessary for this test. If an infiltration test is not performed prior to paving, an exfiltration test may be made as directed by the S&WB Engineer. Any detectable leak shall be repaired by the Contractor at the Contractor's expense. The infiltration test is to be performed by the Contractor and shall be witnessed by the S&WB Inspector.
3. At the completion of backfilling, and prior to final acceptance of the sewer, 100% of the sewer main must be mandreled. This mandrel work shall be witnessed by the S&WB Inspector and performed by the Contractor at no direct pay. The S&WB will provide the mandrels for all tests and the Contractor shall place the pull lines in the mains. The Contractor will have the option of passing the

   mandrels at any time after final backfill of the trenches but prior to final acceptance. It is required that a S&WB Representative and the Contractor witness the actual mandreling test(s).
4. The sewer line shall be cleaned and videoed prior to the installation of the wearing course. It is required that a S&WB Representative and the Contractor physically eye-witness the actual cleaning and TV/video test(s).
5. The Contractor will be required to repair, at his own expense and in an approved manner, all defects in workmanship or material disclosed by these inspections prior to obtaining final acceptance. The Contractor shall also bear all cost associated with the re-testing, including any cost incurred by the S&WB.

VII. FINAL ACCEPTANCE

1. Before final inspection of the system, the Contractor shall submit an "AS-BUILT" drawing to the Board showing any changes in line or grade from the original drawings, as well as showing the location of all house connections, in accordance with S&WB requirements. It will be the Contractor's responsibility to certify that the "AS-BUILT" drawings are correct. Any inaccuracy as determined by the S&WB in the "AS-BUILT" drawings shall be corrected at the cost of the Contractor.
2. The Contractor must contact the S&WB to set a date for final inspection. In the event the Contractor calls for an inspection and the work is not adequately complete, a new inspection date will then be set at the discretion of the S&WB Inspector.
3. Final acceptance of the system will be subject to a 1-year maintenance period following final acceptance of the project by the S&WB.

REV. | DATE | DESCRIPTION | BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

SPECIFICATIONS FOR INSTALLATION OF SEWER MAINS

DR. Q. FENG TRC. CK. B. JONES AP. J. BECKER SCALE NONE DATE 05-05-05 — GENERAL SUPERINTENDENT — DWG. NO. 7260-S — SET NO. — SHEET NO.

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CITY REQUIREMENTS. I AM GENERALLY ADMINISTERING THE WORK.

ENGINEER ____ REG. NO.

STATE OF LOUISIANA — JONATHAN A. SOFRANKO — REG. No. 28228 — REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-13-2026

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
PERMIT SET

DRAWING ISSUE

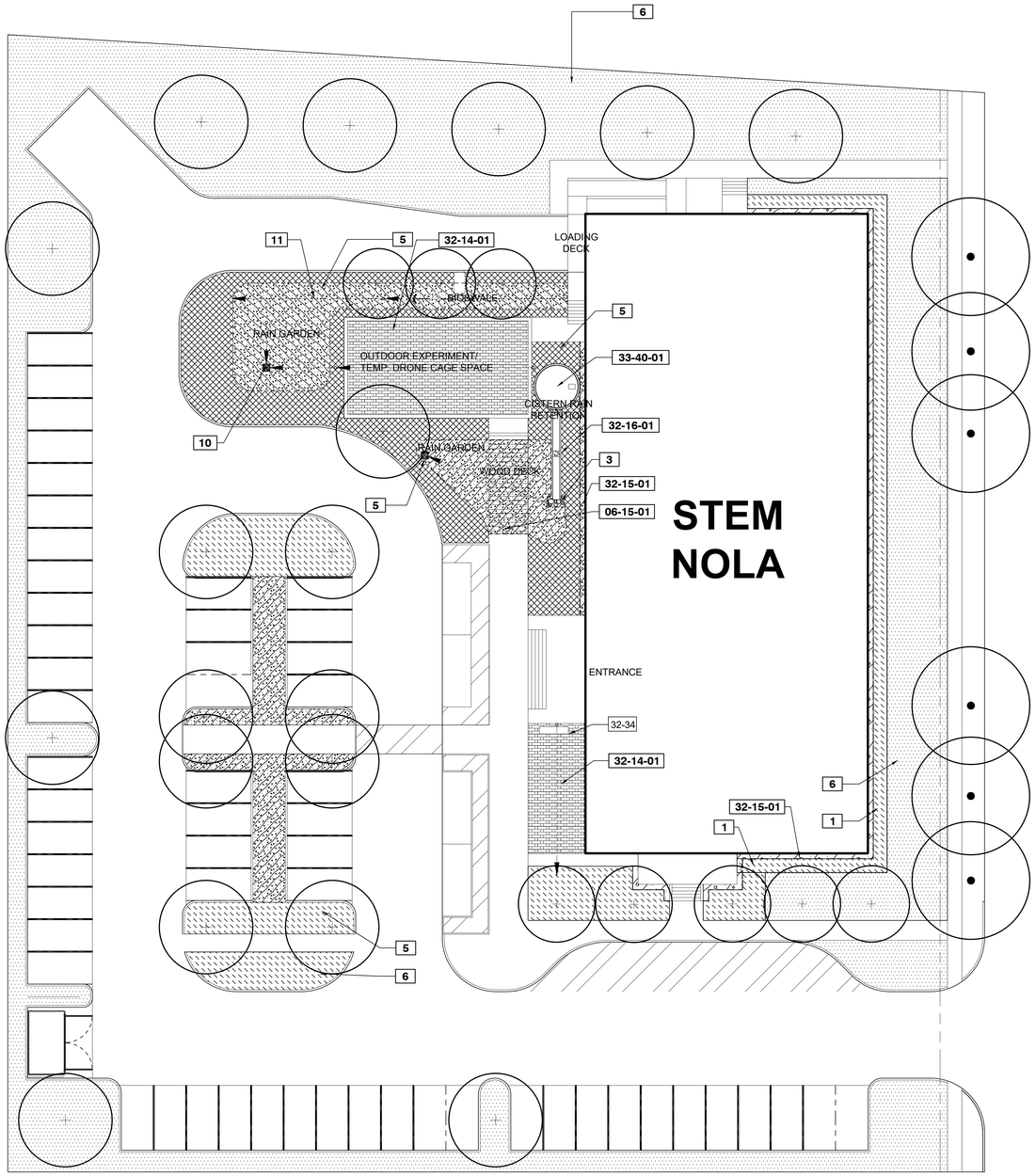
DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

WDG Project No: 2024002

SHEET NAME
S&WB OF NEW ORLEANS STANDARD DRAWINGS

SHEET NO. C302



A OVERALL LANDSCAPE PLAN

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION
	1	PLANTING AREA
	3	ANGULAR RIPRAP 6-12", 12" THICK, OVER NONWOVEN GEOTEXTILE
	5	BIORENTENTION PLANTING WITH BIORETENTION SOIL MIX, 12" MIN.
	6	TURF GRASS
	10	RAIN GARDEN OVERFLOW STRUCTURE SEE CIVIL FOR DETAIL. SEE L302.
	11	BIOSWALE CENTER LINE

06 WOOD, PLASTICS AND COMPOSITES

	06-15-01	PT WOOD DECK USE UC3B FOR DECKING, JOISTS, AND BEAMS 316 SS FASTENERS/HANGERS TREAT FIELD CUTS W/ COPPER NAPHTHENATE PROVIDE JOIST-TOP MEMBRANES

32 EXTERIOR IMPROVEMENTS

	32-14-01	3x12 AQUALINE PERMEABLE PAVERS BY BELGARD

AGGREGATE SURFACE

	32-15-01	WASHED ANGULAR STONE, #3, 4" DEPTH

CURBS AND GUTTERS

	32-16-01	SS SCUPPER WATER FEATURE

Site Furnishings

	32-34	SINKER CYPRESS BENCH ON CONC. BASE CONC. BASE CONSIDERED INCIDENTAL

PLANTING ACCESSORIES

	32-94-01	1/4" STEEL METAL EDGE, MILL FINISH

33 UTILITIES

	33-40-01	15,500 GAL VERTICAL HDPE CISTERN ON REINF. CONC. PAD VINYL WRAP ON HDPE: LSE-RATED CAST FILM W/ UV LAM

CISTERN & RUNNEL NOTES

15,500 GAL HDPE CISTERN ON REINF. CONC. PAD;

6" CISTERN OVERFLOW TO RUNNEL HEADBOX — FREE DISCHARGE SPOUT W/ ≥2" AIR GAP OVER CHANNEL; ANTI-VORTEX & INSECT SCREEN AT TANK.

3" CONTROLLED DISCHARGE (MOTORIZED BALL VALVE) TO SAME HEADBOX VIA DIFFUSER PLATE; PROVIDE MANUAL BYPASS.

RUNNEL HEADBOX (24"×24"): REMOVABLE SS TRASH BASKET, DIFFUSER, AND ENERGY DISSIPATION; LIP EL. ABOVE RUNNEL FREEBOARD.

STEEL RUNNEL CHANNEL (24" W × 6" D) ON MONOLITHIC CONC. PLINTH; SLOPE 1.0% (±0.10%); CHANNEL LIP PROJECTS 3–4" PAST FACE.

ENERGY DISSIPATION APRON AT RUNNEL OUTLET — ANGULAR RIPRAP 6–12" (D50≈9"), 18" THK OVER NON-WOVEN GEOTEXTILE; APRON = RUNNEL WIDTH + 24" × 36" MIN; KEY EDGES 6".

SET RUNNEL INVERT @ HEADBOX ≥3" BELOW THE OVERFLOW SPOUT INVERT.

SET HEADBOX RIM ≥2" ABOVE RUNNEL DESIGN FREEBOARD (NO SPLASHOUT UNDER OVERFLOW).

CONTROLLED DISCHARGE INVERT LOWER THAN OVERFLOW INVERT (BOTH DAYLIGHT TO SAME HEADBOX).

RUNNEL SLOPES CONTINUOUSLY TO RAIN GARDEN; NO SAGS.

RAIN GARDEN EMERGENCY SPILLWAY MUST BE LOWER THAN CISTERN MANWAY AND HIGHER THAN RAIN GARDEN RIM.

OVERFLOW AND CONTROLLED DISCHARGE BOTH ENTER THE RUNNEL; THE RUNNEL CONVEYS TO THE RAIN GARDEN. NO SEPARATE BYPASS.

MAINTAIN AIR GAP AT OVERFLOW; DO NOT SUBMERGE OVERFLOW OUTLET.

PROVIDE SCREENS AT TANK OVERFLOW AND A REMOVABLE TRASH BASKET IN HEADBOX; CLEAN AFTER STORMS AND QUARTERLY.

SIZE RUNNEL/APRON FOR OVERFLOW PEAK (≥ ROOF INLET CAPACITY FOR DESIGN STORM).

ALL STAINLESS FASTENERS AT WATER HARDWARE; POLYURETHANE SEALANT BETWEEN STEEL CHANNEL AND CONCRETE.

GENERAL NOTES

WORK COVERED BY THIS SECTION INCLUDES FURNISHING OF AND PAYING FOR ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, OTHER ITEMS, AND APPLIANCES NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE DRAWING.

PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK AND PROVIDE FOR ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITY LINES (TELEPHONE, GAS, WATER, ELECTRICAL, CABLE, ETC.) PRIOR TO START OF ANY WORK.

CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING.
THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES.

NO ATTEMPT HAS BEEN MADE BY PATCH LANDSCAPE ARCHITECTURE LLC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIP, SERVITUDES, EASEMENTS, RIGHT- OF - WAYS, OR OTHER BURDENS ON THE PROPERTY OTHER THAN THAT FURNISHED BY THE CLIENT AND/OR HIS REPRESENTATIVE. CONTRACTOR SHALL CONFIRM.

THE LOCATION OF PROPERTY LINES, SERVITUDES AND UTILITIES ARE APPROXIMATE AND WERE FURNISHED BY ORIGINAL SURVEYED INFORMATION. PATCH LANDSCAPE ARCHITECTURE LLC DOES NOT WARRANT THE EXACT LOCATION OF INFORMATION SHOWN. CONTRACTOR SHALL CONFIRM

FOR UNDERGROUND INFORMATION:
LOUISIANA ONE CALL 1 800 272 3020

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4435 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

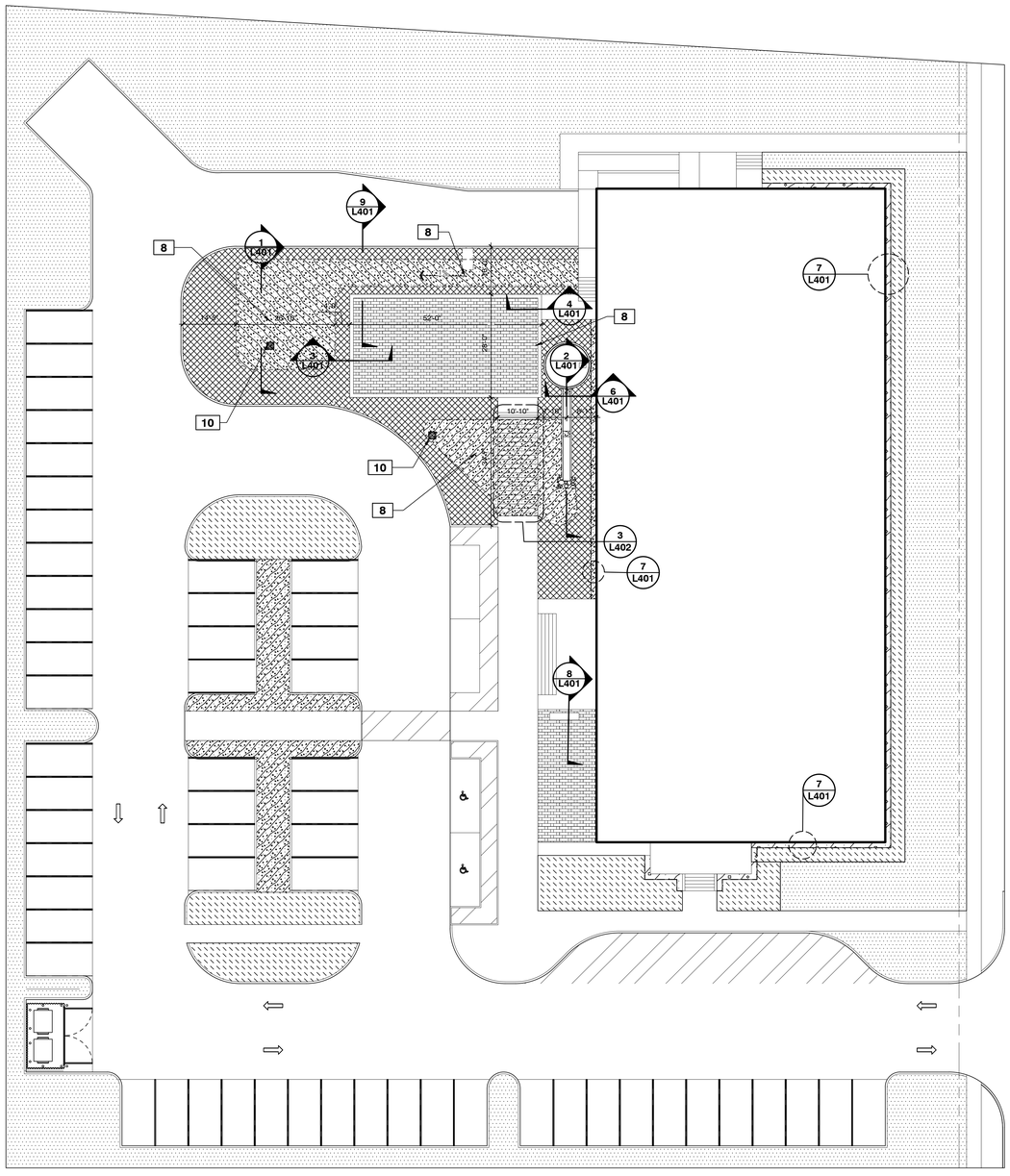
REVISIONS

STATE OF LOUISIANA
Reg. No. 5645
LICENSED
LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
OVERALL LANDSCAPE PLAN

SHEET NO. L101



A MATERIALS AND LAYOUT PLAN

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
	1	PLANTING AREA	1,688 sf	
	3	ANGULAR RIPRAP 6-12", 12" THICK, OVER NONWOVEN GEOTEXTILE	0.46 cy	
	5	BIORENTENTION PLANTING WITH BIORETENTION SOIL MIX, 12" MIN.	3,775 sf	1/L401
	6	TURF GRASS		
	8	6" PERF PIPE, SEE L302		
	10	RAIN GARDEN OVERFLOW STRUCTURE SEE CIVIL FOR DETAIL. SEE L302.		

06 WOOD, PLASTICS AND COMPOSITES

	06-15-01	PT WOOD DECK USE UC3B FOR DECKING, JOISTS, AND BEAMS 316 SS FASTENERS/HANGERS TREAT FIELD CUTS W/ COPPER NAPHTHENATE PROVIDE JOIST-TOP MEMBRANES	304 sf	1/L402

32 EXTERIOR IMPROVEMENTS

	32-14-01	3x12 AQUALINE PERMEABLE PAVERS BY BELGARD	1,858 sf	/

AGGREGATE SURFACE

	32-15-01	WASHED ANGULAR STONE, #3, 4" DEPTH	44.4 cy	7/L401

PLANTING ACCESSORIES

	32-94-01	1/4" STEEL METAL EDGE, MILL FINISH	370 lf	7/L401

LAYOUT NOTES

1. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURBS OR WALLS UNLESS OTHERWISE NOTED.

2. AREAS TO RECEIVE PAVING, CURBS, PLANTING, AND OTHER SITE IMPROVEMENTS SHALL BE MARKED OUT AND ANY ADJUSTMENT IN THEIR LOCATION, AS DIRECTED BY THE OWNER'S REPRESENTATIVE, SHALL BE MADE PRIOR TO THE COMMENCEMENT OF WORK.

3. ALL PATHWAYS AT DOORS SHALL BE CENTERED ON DOORS UNLESS OTHERWISE INDICATED.

4. EXPANSION JOINTS ARE TO BE LOCATED AT THE JUNCTION OF ALL CURBS, STEPS, WALLS AND PAVING ADJACENT TO A BUILDING.

5. EXPANSION JOINTS IN CONCRETE CURBS AND WALKS SHALL BE INSTALLED AS SHOWN ON DRAWINGS. EXPANSION JOINTS SHALL OCCUR NO MORE THAN 13 FEET ON CENTER IN CONCRETE CURBS AND 15 FEET ON CENTER IN CONCRETE WALKS.

6. ALL SCORING IN CONCRETE SHALL BE CLEAN, HAND-TOOLED ¼" DEEP X ¼" WIDE.

7. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.

8. VERIFICATION OF LAYOUT:
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PROJECT LAYOUT DIMENSIONS, SITE CONDITIONS, AND ELEVATIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE PLANS AND THE ACTUAL SITE CONDITIONS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY FOR RESOLUTION BEFORE PROCEEDING WITH CONSTRUCTION.

9. NO SURVEY PROVIDED:
A FORMAL SITE SURVEY WAS NOT PERFORMED FOR THIS PROJECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, PROPERTY BOUNDARIES, AND OTHER RELEVANT SITE FEATURES AS NECESSARY TO EXECUTE THE WORK.

GENERAL NOTES

WORK COVERED BY THIS SECTION INCLUDES FURNISHING OF AND PAYING FOR ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, OTHER ITEMS, AND APPLIANCES NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE DRAWING.

PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK AND PROVIDE FOR ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITY LINES (TELEPHONE, GAS, WATER, ELECTRICAL, CABLE, ETC.) PRIOR TO START OF ANY WORK.

CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING
THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES.

NO ATTEMPT HAS BEEN MADE BY PATCH LANDSCAPE ARCHITECTURE LLC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIP, SERVITUDES, EASEMENTS, RIGHT- OF - WAYS, OR OTHER BURDENS ON THE PROPERTY OTHER THAN THAT FURNISHED BY THE CLIENT AND/OR HIS REPRESENTATIVE. CONTRACTOR SHALL CONFIRM.

THE LOCATION OF PROPERTY LINES, SERVITUDES AND UTILITIES ARE APPROXIMATE AND WERE FURNISHED BY ORIGINAL SURVEYED INFORMATION. PATCH LANDSCAPE ARCHITECTURE LLC DOES NOT WARRANT THE EXACT LOCATION OF INFORMATION SHOWN. CONTRACTOR SHALL CONFIRM

FOR UNDERGROUND INFORMATION:
LOUISIANA ONE CALL 1 800 272 3020

BIORETENTION FACILITY NOTES

1. BIORETENTION FACILITIES INCLUDE BIOSWALES, RAIN GARDENS, BIOCELLS, INFILTRATION TRENCHES, AND OTHER FEATURES THAT MANAGE STORMWATER USING INFILTRATION TECHNIQUES, SOIL AMENDMENTS, AND/OR PLANT MATERIALS
2. PROTECTING THE BIORETENTION FACILITY DURING CONSTRUCTION FROM RUNOFF SEDIMENT IS OF THE UTMOST IMPORTANCE.
3. FAILURE TO INSTALL APPROPRIATE CONSTRUCTION SITE STORMWATER RUNOFF CONTROL MEASURES AT THE EDGES OF BIORETENTION FACILITIES SHALL RESULT IN RE-WORK AT THE CONTRACTOR'S EXPENSE.
4. STORMWATER CONTROL MEASURES MAY INCLUDE PERIMETER CONTROLS, CHECK DAMS, SLOPE PROTECTION, STORM DRAIN INLET PROTECTION, AND CONCRETE WASHOUT STRUCTURES.
5. ALL AGGREGATE MATERIALS USED IN BIORETENTION FACILITIES SHALL BE WASHED AND FREE OF DEBRIS, DUST, OR FINES.
6. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL SITE CONSTRUCTION BMP'S.

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

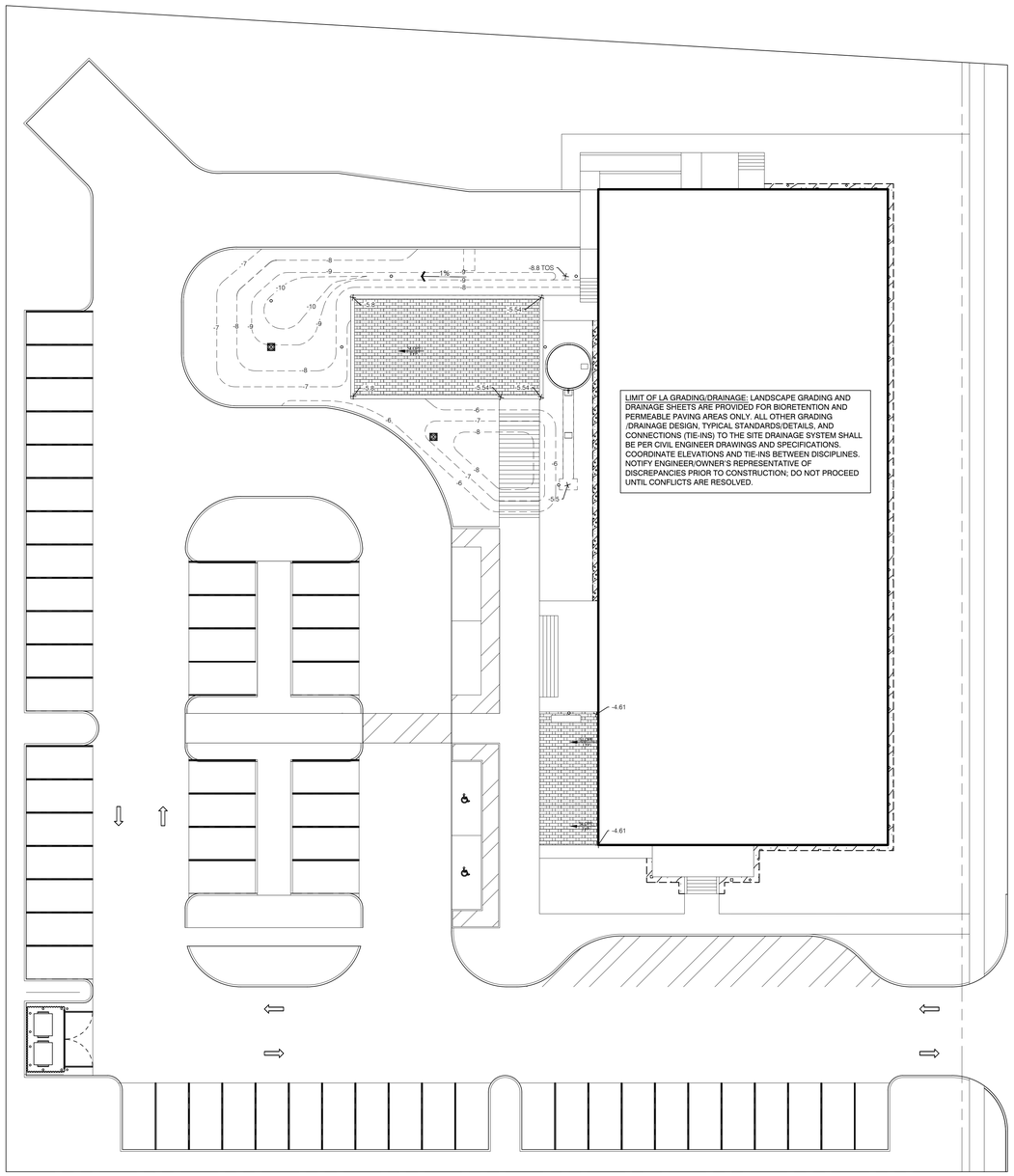
REVISIONS

STATE OF LOUISIANA
Reg. No. 0546
LICENSED
LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
MATERIALS & LAYOUT PLAN

SHEET NO. L201



A BIORETENTION AREA GRADING

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

SYMBOL LEGEND

2.39 PROPOSED FINISHED GRADE ELEVATION

TC	TOP OF CASTING ELEVATION
INV.	INVERT ELEVATION
FL. INV.	FLOW LINE INVERT ELEVATION
ELEV.	ELEVATION
G.B.	GRADE BREAK
DS	CONNECT TO ROOF DOWNSPOUT BOOT.

GRADING PLAN LEGEND

2.39 PROPOSED FINISHED GRADE ELEVATION

PROPOSED ELEVATION CONTOUR 1 FT INTERVAL

SLOPE SLOPE NEW PAVING UNIFORMLY

GENERAL GRADING & DRAINAGE NOTES

1. GENERAL GRADING REQUIREMENTS:
   - CONTRACTOR SHALL PERFORM ALL GRADING AS PER THE APPROVED GRADING AND DRAINAGE PLAN ON IN BOTH CIVIL AND LANDSCAPE ARCHITECTURE DRAWINGS.
   - ALL GRADING SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS, STRUCTURES, AND PAVED AREAS.
   - FINISHED GRADES SHALL PROVIDE SMOOTH TRANSITIONS BETWEEN CONTOURS, SLOPES, AND ADJACENT SURFACES.
   - NO GRADING CHANGES SHALL BE MADE WITHOUT APPROVAL FROM THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
2. MINIMUM SLOPES:
   - FINISHED GRADES FOR TURF AND LANDSCAPE AREAS SHALL BE SLOPED AT A MINIMUM OF 2.5% FOR DRAINAGE UNLESS OTHERWISE NOTED.
   - CONCRETE SURFACES (WALKWAYS, DRIVEWAYS, AND PATIOS) SHALL BE SLOPED A MINIMUM OF 1.5% (3/16" PER FOOT) TO ENSURE POSITIVE DRAINAGE.
   - EARTHEN SWALES SHALL HAVE A MINIMUM SLOPE OF 1.0% (1/8" PER FOOT) TO FACILITATE WATER FLOW.
   - ALL DRAINAGE PIPES SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 0.5% FOR PIPES 6" IN DIAMETER AND LARGER, OR AS SPECIFIED.
3. DRAINAGE SYSTEM:
   - ALL SURFACE WATER SHALL BE DIRECTED TO APPROVED DRAINAGE OUTLETS OR STORM SEWER SYSTEMS AS SHOWN ON THE PLAN.
   - ALL CATCH BASINS, DRAIN INLETS, AND AREA DRAINS SHALL BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND LOCATED PER THE PLAN TO ENSURE PROPER SITE DRAINAGE.
   - SUBSURFACE DRAINAGE PIPES SHALL BE HDPE, OR APPROVED EQUAL, SIZED AS PER THE PLANS, AND INSTALLED WITH PROPER BEDDING AND SLOPE.
   - CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES ARE FREE OF DEBRIS AND OBSTRUCTIONS PRIOR TO FINAL INSPECTION.
4. EROSION CONTROL:
   - CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION TO PREVENT SOIL EROSION AND SEDIMENT RUNOFF ONTO ADJACENT PROPERTIES AND PUBLIC STREETS.
   - PERMANENT EROSION CONTROL METHODS, SUCH AS GRASS, MULCH, OR OTHER GROUND COVERS, SHALL BE ESTABLISHED IMMEDIATELY AFTER GRADING IS COMPLETED.
5. COMPLIANCE AND PERMITS:
   - ALL GRADING AND DRAINAGE WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES.
   - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ENSURING THAT WORK IS COMPLETED IN COMPLIANCE WITH THE APPROVED PLANS AND JURISDICTIONAL REQUIREMENTS.
6. SITE INSPECTIONS AND ADJUSTMENTS:
   - THE CONTRACTOR SHALL COORDINATE WITH THE MOVEBR CONSTRUCTION MANAGER FOR SITE INSPECTIONS DURING CRITICAL STAGES OF GRADING AND DRAINAGE CONSTRUCTION.
   - ANY MODIFICATIONS TO THE GRADING PLAN SHALL BE SUBMITTED TO THE MOVEBR CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO IMPLEMENTATION.
7. EXISTING CONDITIONS:
   - CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF GRADING. ANY DISCREPANCIES WITH THE PLANS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT.
   - PROTECT ALL EXISTING UTILITIES AND STRUCTURES. ANY DAMAGES CAUSED DURING GRADING SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. FINISHED SURFACE AND RESTORATION:
   - ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL OR IMPROVED CONDITIONS AS INDICATED ON THE PLANS, WITH PROPER TOPSOIL, SEEDING, SODDING, OR PLANTING.
   - FINAL GRADE SURFACES SHALL BE SMOOTH AND FREE OF DEPRESSIONS, RUTS, OR IRREGULARITIES THAT COULD IMPEDE PROPER DRAINAGE.
9. STORMWATER MANAGEMENT:
   - STORMWATER MANAGEMENT FACILITIES (E.G., DETENTION/RETENTION PONDS, BIOSWALES) SHALL BE CONSTRUCTED AND STABILIZED AS PER THE PLANS, WITH PROPER OUTLET CONTROLS AND VEGETATIVE COVER.
   - ALL STORMWATER FACILITIES SHALL FOLLOW THE BATON ROUGE DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS.
   - CONTRACTOR SHALL ENSURE THAT ALL STORMWATER FACILITIES FUNCTION AS DESIGNED PRIOR TO FINAL PROJECT CLOSEOUT.

BIORETENTION FACILITY NOTES

1. BIORETENTION FACILITIES INCLUDE BIOSWALES, RAIN GARDENS, BIOCELLS, INFILTRATION TRENCHES, AND OTHER FEATURES THAT MANAGE STORMWATER USING INFILTRATION TECHNIQUES, SOIL AMENDMENTS, AND/OR PLANT MATERIALS
2. PROTECTING THE BIORETENTION FACILITY DURING CONSTRUCTION FROM RUNOFF SEDIMENT IS OF THE UTMOST IMPORTANCE.
3. FAILURE TO INSTALL APPROPRIATE CONSTRUCTION SITE STORMWATER RUNOFF CONTROL MEASURES AT THE EDGES OF BIORETENTION FACILITIES SHALL RESULT IN RE-WORK AT THE CONTRACTOR'S EXPENSE.
4. STORMWATER CONTROL MEASURES MAY INCLUDE PERIMETER CONTROLS, CHECK DAMS, SLOPE PROTECTION, STORM DRAIN INLET PROTECTION, AND CONCRETE WASHOUT STRUCTURES.
5. ALL AGGREGATE MATERIALS USED IN BIORETENTION FACILITIES SHALL BE WASHED AND FREE OF DEBRIS, DUST, OR FINES.
6. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL SITE CONSTRUCTION BMP'S.

patch LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

REVISIONS

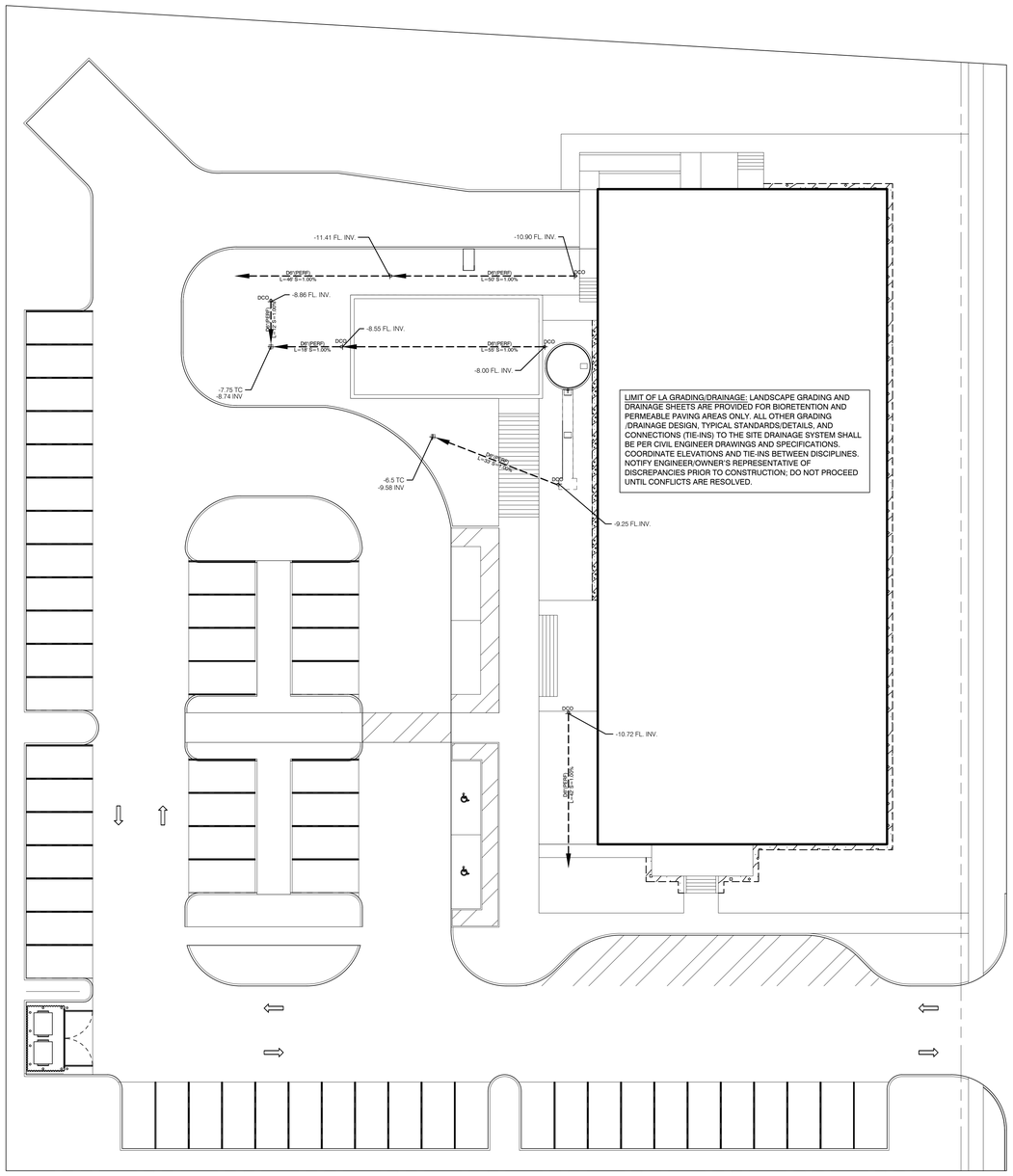
STATE OF LOUISIANA — KYLE WILLARD — 1765 — LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME

LANDSCAPE SUBSURFACE GRADING PLAN

SHEET NO. L301



A BIORETENTION AREA SUB DRAINAGE PLAN

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

SYMBOL LEGEND

2.39	PROPOSED FINISHED GRADE ELEVATION
TC	TOP OF CASTING ELEVATION
INV.	INVERT ELEVATION
FL. INV.	FLOW LINE INVERT ELEVATION
ELEV.	ELEVATION
G.B.	GRADE BREAK
DS	CONNECT TO ROOF DOWNSPOUT BOOT.

DRAINAGE PLAN LEGEND

D6" L=25' S=0.50%	NEW DRAIN, SIZE, LENGTH, SLOPE
⊠	NEW 24x24 DRAIN INLET (GRATE AND FRAME), SEE 2/C2.2
○DCO	NEW DRAIN CLEANOUT, SEE 5/C2.2
FL	FLOW LINE (PIPE INV EL AT SPECIFIED POINT)

GENERAL GRADING & DRAINAGE NOTES

1. GENERAL GRADING REQUIREMENTS:
   - CONTRACTOR SHALL PERFORM ALL GRADING AS PER THE APPROVED GRADING AND DRAINAGE PLAN ON IN BOTH CIVIL AND LANDSCAPE ARCHITECTURE DRAWINGS.
   - ALL GRADING SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS, STRUCTURES, AND PAVED AREAS.
   - FINISHED GRADES SHALL PROVIDE SMOOTH TRANSITIONS BETWEEN CONTOURS, SLOPES, AND ADJACENT SURFACES.
   - NO GRADING CHANGES SHALL BE MADE WITHOUT APPROVAL FROM THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
2. MINIMUM SLOPES:
   - FINISHED GRADES FOR TURF AND LANDSCAPE AREAS SHALL BE SLOPED AT A MINIMUM OF 2.5% FOR DRAINAGE UNLESS OTHERWISE NOTED.
   - CONCRETE SURFACES (WALKWAYS, DRIVEWAYS, AND PATIOS) SHALL BE SLOPED A MINIMUM OF 1.5% (3/16" PER FOOT) TO ENSURE POSITIVE DRAINAGE.
   - EARTHEN SWALES SHALL HAVE A MINIMUM SLOPE OF 1.0% (1/8" PER FOOT) TO FACILITATE WATER FLOW.
   - ALL DRAINAGE PIPES SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 0.5% FOR PIPES 6" IN DIAMETER AND LARGER, OR AS SPECIFIED.
3. DRAINAGE SYSTEM:
   - ALL SURFACE WATER SHALL BE DIRECTED TO APPROVED DRAINAGE OUTLETS OR STORM SEWER SYSTEMS AS SHOWN ON THE PLAN.
   - ALL CATCH BASINS, DRAIN INLETS, AND AREA DRAINS SHALL BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND LOCATED PER THE PLAN TO ENSURE PROPER SITE DRAINAGE.
   - SUBSURFACE DRAINAGE PIPES SHALL BE HDPE, OR APPROVED EQUAL, SIZED AS PER THE PLANS, AND INSTALLED WITH PROPER BEDDING AND SLOPE.
   - CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES ARE FREE OF DEBRIS AND OBSTRUCTIONS PRIOR TO FINAL INSPECTION.
4. EROSION CONTROL:
   - CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION TO PREVENT SOIL EROSION AND SEDIMENT RUNOFF ONTO ADJACENT PROPERTIES AND PUBLIC STREETS.
   - PERMANENT EROSION CONTROL METHODS, SUCH AS GRASS, MULCH, OR OTHER GROUND COVERS, SHALL BE ESTABLISHED IMMEDIATELY AFTER GRADING IS COMPLETED.
5. COMPLIANCE AND PERMITS:
   - ALL GRADING AND DRAINAGE WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES.
   - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ENSURING THAT WORK IS COMPLETED IN COMPLIANCE WITH THE APPROVED PLANS AND JURISDICTIONAL REQUIREMENTS.
6. SITE INSPECTIONS AND ADJUSTMENTS:
   - THE CONTRACTOR SHALL COORDINATE WITH THE MOVEBR CONSTRUCTION MANAGER FOR SITE INSPECTIONS DURING CRITICAL STAGES OF GRADING AND DRAINAGE CONSTRUCTION.
   - ANY MODIFICATIONS TO THE GRADING PLAN SHALL BE SUBMITTED TO THE MOVEBR CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO IMPLEMENTATION.
7. EXISTING CONDITIONS:
   - CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF GRADING. ANY DISCREPANCIES WITH THE PLANS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT.
   - PROTECT ALL EXISTING UTILITIES AND STRUCTURES. ANY DAMAGES CAUSED DURING GRADING SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. FINISHED SURFACE AND RESTORATION:
   - ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL OR IMPROVED CONDITIONS AS INDICATED ON THE PLANS, WITH PROPER TOPSOIL, SEEDING, SODDING, OR PLANTING.
   - FINAL GRADE SURFACES SHALL BE SMOOTH AND FREE OF DEPRESSIONS, RUTS, OR IRREGULARITIES THAT COULD IMPEDE PROPER DRAINAGE.
9. STORMWATER MANAGEMENT:
   - STORMWATER MANAGEMENT FACILITIES (E.G., DETENTION/RETENTION PONDS, BIOSWALES) SHALL BE CONSTRUCTED AND STABILIZED AS PER THE PLANS, WITH PROPER OUTLET CONTROLS AND VEGETATIVE COVER.
   - ALL STORMWATER FACILITIES SHALL FOLLOW THE BATON ROUGE DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS.
   - CONTRACTOR SHALL ENSURE THAT ALL STORMWATER FACILITIES FUNCTION AS DESIGNED PRIOR TO FINAL PROJECT CLOSEOUT.

BIORETENTION FACILITY NOTES

1. BIORETENTION FACILITIES INCLUDE BIOSWALES, RAIN GARDENS, BIOCELLS, INFILTRATION TRENCHES, AND OTHER FEATURES THAT MANAGE STORMWATER USING INFILTRATION TECHNIQUES, SOIL AMENDMENTS, AND/OR PLANT MATERIALS
2. PROTECTING THE BIORETENTION FACILITY DURING CONSTRUCTION FROM RUNOFF SEDIMENT IS OF THE UTMOST IMPORTANCE.
3. FAILURE TO INSTALL APPROPRIATE CONSTRUCTION SITE STORMWATER RUNOFF CONTROL MEASURES AT THE EDGES OF BIORETENTION FACILITIES SHALL RESULT IN RE-WORK AT THE CONTRACTOR'S EXPENSE.
4. STORMWATER CONTROL MEASURES MAY INCLUDE PERIMETER CONTROLS, CHECK DAMS, SLOPE PROTECTION, STORM DRAIN INLET PROTECTION, AND CONCRETE WASHOUT STRUCTURES.
5. ALL AGGREGATE MATERIALS USED IN BIORETENTION FACILITIES SHALL BE WASHED AND FREE OF DEBRIS, DUST, OR FINES.
6. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL SITE CONSTRUCTION BMP'S.

patch LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

REVISIONS

STATE OF LOUISIANA Reg No 0946 LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

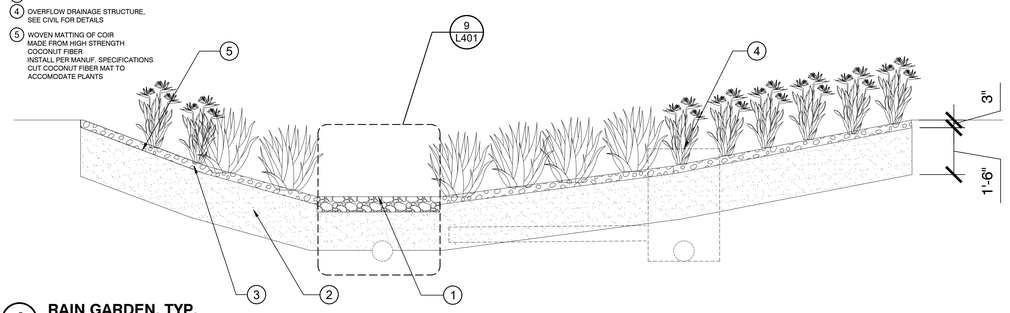
SHEET NAME

LANDSCAPE SUBSURFACE DRAINAGE PLAN

SHEET NO. L302

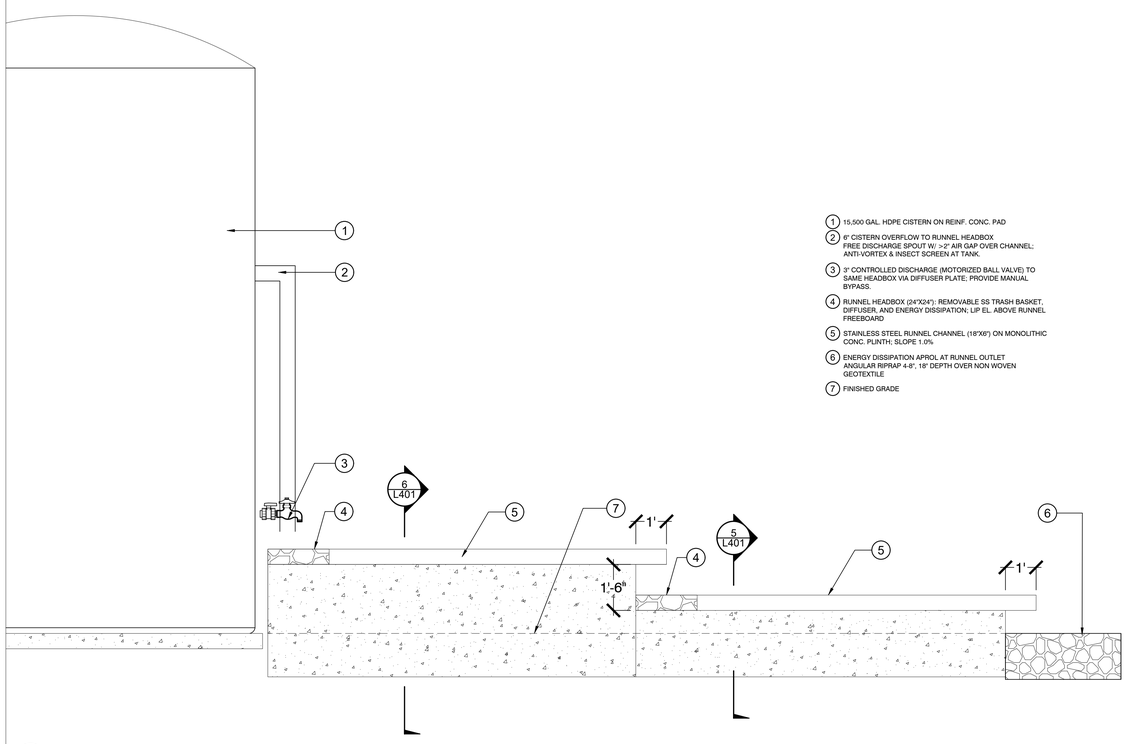
NOTE: SEE L301 AND L302 FOR ELEVATIONS AND SUBDRAIN LAYOUT.

1. LADOTD CLASS 30 RIPRAP, 4-8" ANGULAR STONE 12" DEEP, SET ON NONWOVEN GEOTEXTILE. SEE L201 FOR LAYOUT, EXACT BOUNDARIES STAKED FOR APPROVAL IN THE FIELD
2. BIOCELL PLANTING SOIL 60% SAND; 20% COMPOST; 10% ORGANIC; 10% TOPSOIL 12" MINIMUM DEPTH
3. 3" #57 AGGREGATE, CLEAN
4. OVERFLOW DRAINAGE STRUCTURE, SEE CIVIL FOR DETAILS
5. WOVEN MATTING OF COIR MADE FROM HIGH STRENGTH COCONUT FIBER INSTALL PER MANUF. SPECIFICATIONS CUT COCONUT FIBER MAT TO ACCOMODATE PLANTS



1 RAIN GARDEN, TYP.

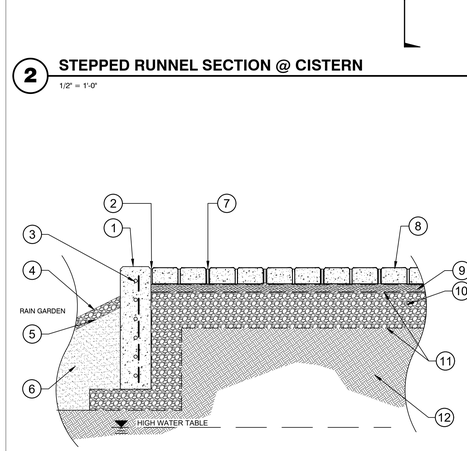
1/2" = 1'-0" P-ST-07



1. 15,500 GAL. HDPE CISTERN ON REINF. CONC. PAD
2. 6" CISTERN OVERFLOW TO RUNNEL HEADBOX FREE DISCHARGE SPOUT W/ >2" AIR GAP OVER CHANNEL; ANTI-VORTEX & INSECT SCREEN AT TANK.
3. 3" CONTROLLED DISCHARGE (MOTORIZED BALL VALVE) TO SAME HEADBOX VIA DIFFUSER PLATE; PROVIDE MANUAL BYPASS.
4. RUNNEL HEADBOX (24"X24"): REMOVABLE SS TRASH BASKET, DIFFUSER, AND ENERGY DISSIPATION; LIP EL. ABOVE RUNNEL FREEBOARD
5. STAINLESS STEEL RUNNEL CHANNEL (18"X6") ON MONOLITHIC CONC. PLINTH; SLOPE 1.0%
6. ENERGY DISSIPATION APROL AT RUNNEL OUTLET ANGULAR RIPRAP 4-8", 18" DEPTH OVER NON WOVEN GEOTEXTILE
7. FINISHED GRADE

2 STEPPED RUNNEL SECTION @ CISTERN

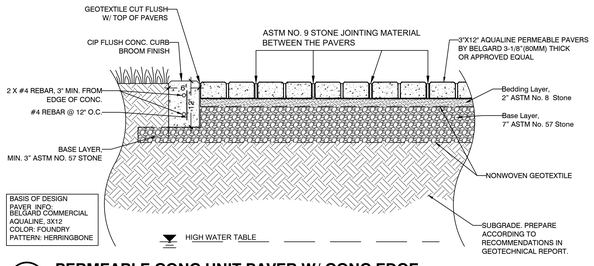
1/2" = 1'-0" P-ST-37



1. CIP Flush Conc Curb See Civil
2. GEOTEXTILE CUT FLUSH WITH TOP OF PAVERS
3. STEEL REINFORCING, SEE CIVIL
4. 3" NO. 57 LIMESTONE
5. WOVEN MATTING OF COIR MADE FROM HIGH STRENGTH COCONUT FIBER. INSTALL PER MANUFACTURER SPECIFICATIONS. CUT THROUGH COCONUT FIBER MAT TO ACCOMODATE PLANTS.
6. BIOSWALE PLANTING MIX (60% SAND, 20% COMPOST, 10% CLEAN TOPSOIL, 10% ORGANIC), 12" MIN.
7. NO. 9 STONE SWEPT BETWEEN PAVERS
8. 3"X12" AQUALINE PERMEABLE PAVERS BY BELGARD
9. BEDDING LAYER 2" NO. 8 LIMESTONE
10. 8" NO. 57 LIMESTONE
11. NONWOVEN GEOTEXTILE
12. SUBGRADE. PREPARE ACCORDING TO GEOTECHNICAL REPORT.

3 PERMEABLE CONC UNIT PAVER W/ FLUSH CONC EDGE

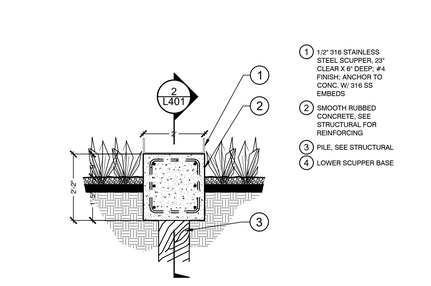
1" = 1'-0" P-ST-27



BASIS OF DESIGN PAVER INFO: BELGARD COMMERCIAL AQUALINE, 3X12 COLOR: FOUNDRY PATTERN: HERRINGBONE

4 PERMEABLE CONC UNIT PAVER W/ CONC EDGE

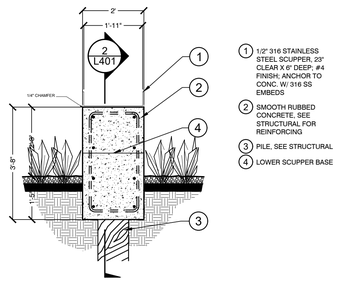
1" = 1'-0" P-ST-06



1. 1/2" 316 STAINLESS STEEL SCUPPER, 23" CLEAR X 6" DEEP; #4 FINISH; ANCHOR TO CONC. W/ 316 SS EMBEDS
2. SMOOTH RUBBED CONCRETE, SEE STRUCTURAL FOR REINFORCING
3. PILE, SEE STRUCTURAL
4. LOWER SCUPPER BASE

5 LOWER SCUPPER SECTION

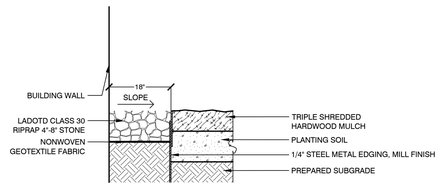
1/2" = 1'-0" P-ST-38



1. 1/2" 316 STAINLESS STEEL SCUPPER, 23" CLEAR X 6" DEEP; #4 FINISH; ANCHOR TO CONC. W/ 316 SS EMBEDS
2. SMOOTH RUBBED CONCRETE, SEE STRUCTURAL FOR REINFORCING
3. PILE, SEE STRUCTURAL
4. LOWER SCUPPER BASE

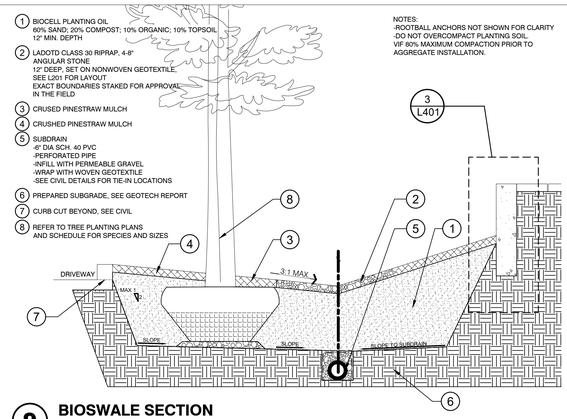
6 SS RUNNEL ON CONCRETE BASE

1/2" = 1'-0" P-ST-33



7 DECORATIVE STONE @ PLANTING AREA

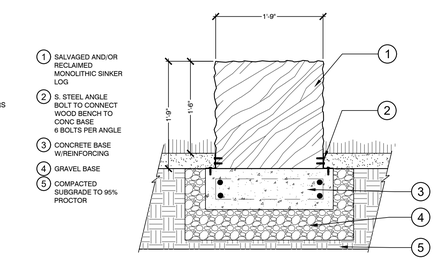
1" = 1'-0" P-ST-04



1. BIOCELL PLANTING OIL 60% SAND; 20% COMPOST; 10% ORGANIC; 10% TOPSOIL 12" MIN. DEPTH
2. LADOTD CLASS 30 RIPRAP, 4-8" ANGULAR STONE 12" DEEP, SET ON NONWOVEN GEOTEXTILE SEE L201 FOR LAYOUT EXACT BOUNDARIES STAKED FOR APPROVAL IN THE FIELD
3. CRUSED PINESTRAW MULCH
4. CRUSHED PINESTRAW MULCH
5. SUBDRAIN -6" DIA SCH. 40 PVC -PERFORATED PIPE -INFILL WITH PERMEABLE GRAVEL -WRAP WITH WOVEN GEOTEXTILE -SEE CIVIL DETAILS FOR TIE-IN LOCATIONS
6. PREPARED SUBGRADE, SEE GEOTECH REPORT
7. CURB CUT BEYOND, SEE CIVIL
8. REFER TO TREE PLANTING PLANS AND SCHEDULE FOR SPECIES AND SIZES

9 BIOSWALE SECTION

1/2" = 1'-0" P-ST-39



1. SALVAGED AND/OR RECLAIMED MONOLITHIC SINKER LOG
2. S. STEEL ANGLE BOLT TO CONNECT WOOD BENCH TO CONC BASE 6 BOLTS PER ANGLE
3. CONCRETE BASE W/REINFORCING
4. GRAVEL BASE
5. COMPACTED SUBGRADE TO 95% PROCTOR

8 RECLAIMED MONOLITHIC SINKER LOG BENCH

1" = 1'-0" P-ST-08

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
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PERMIT

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REVISIONS

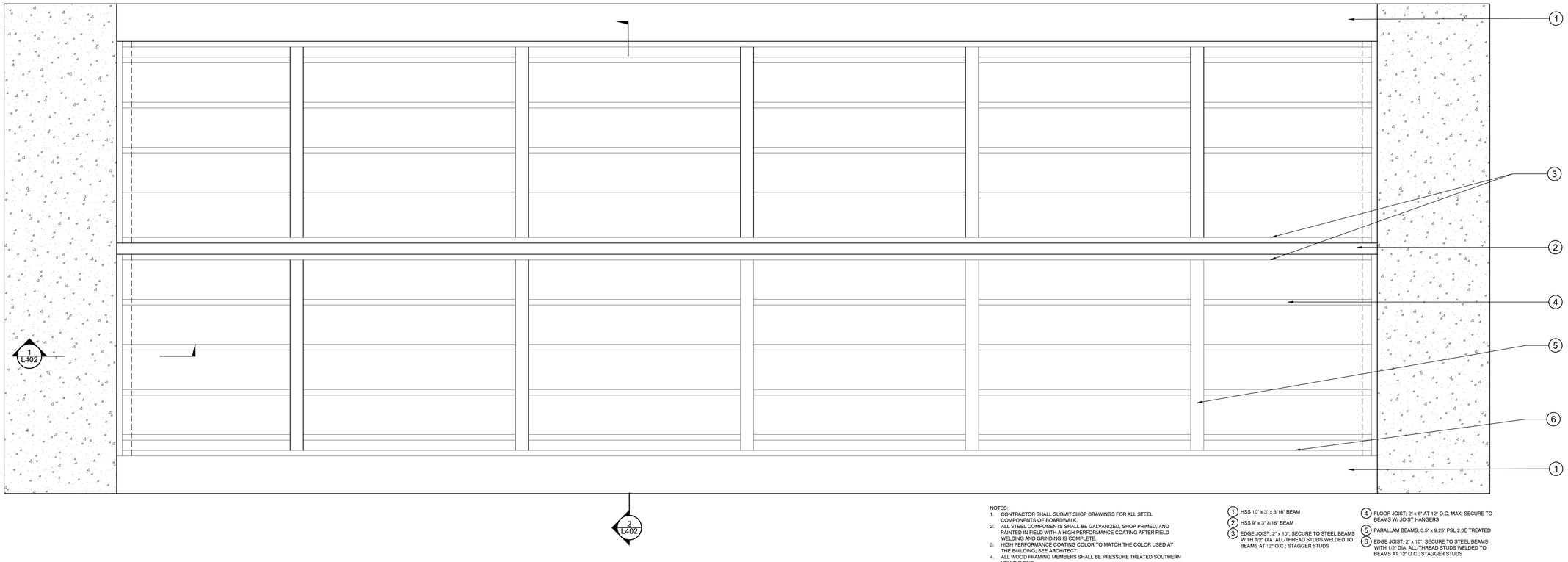
STATE OF LOUISIANA
Reg. No. 5546
LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME

SITE DETAILS

SHEET NO. L401



NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STEEL COMPONENTS OF BOARDWALK.
2. ALL STEEL COMPONENTS SHALL BE GALVANIZED, SHOP PRIMED, AND PAINTED IN FIELD WITH A HIGH PERFORMANCE COATING AFTER FIELD WELDING AND GRINDING IS COMPLETE.
3. HIGH PERFORMANCE COATING COLOR TO MATCH THE COLOR USED AT THE BUILDING; SEE ARCHITECT.
4. ALL WOOD FRAMING MEMBERS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.

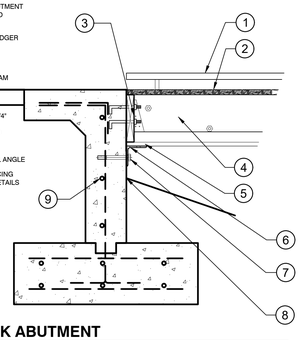
1. HSS 10" x 3" x 3/16" BEAM
2. HSS 9" x 3" 3/16" BEAM
3. EDGE JOIST; 2" x 10"; SECURE TO STEEL BEAMS WITH 1/2" DIA. ALL-THREAD STUDS WELDED TO BEAMS AT 12" O.C.; STAGGER STUDS
4. FLOOR JOIST; 2" x 8" AT 12" O.C. MAX; SECURE TO BEAMS W/ JOIST HANGERS
5. PARALLAM BEAMS; 3.5" x 9.25" PSL 2.0E TREATED
6. EDGE JOIST; 2" x 10"; SECURE TO STEEL BEAMS WITH 1/2" DIA. ALL-THREAD STUDS WELDED TO BEAMS AT 12" O.C.; STAGGER STUDS

3 BOARDWALK FRAMING PLAN

1" = 1'-0"

P-ST-36

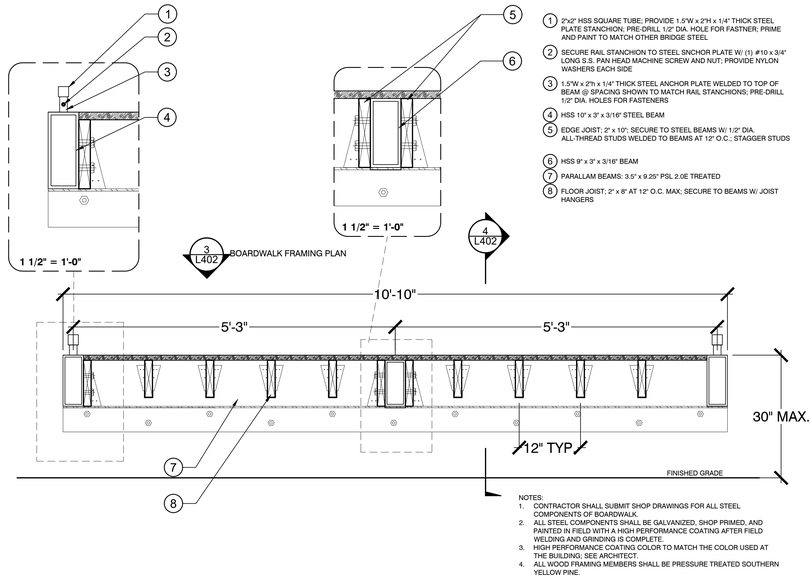
1. BOARDWALK CURB RAIL
2. 5/4" X 6" ACETYLATED WOOD DECKING W/PRECUT GROOVES FOR FASTENERS; SECURE TO NAILERS W/HIDDEN FASTENER SYSTEM
3. 2"X10" EDGE JOIST; SECURE TO ABUTMENT W/1/2"X6" AB AT 12" O.C. STAGGERED EMBED ANCHOR BOLT
4. 2"X8" FLOOR JOISTS; SECURE TO LEDGER W/GALVANIZED HANGERS
5. HSS 10"X3"X3/16" FRAME SET ON ANGLE, SECURED W/STEEL CLIPS WELDED ON ONE SIDE OF BEAM
6. 4"X4"X3/8" ANGLE; CONTINUOUS FOR WIDTH OF BOARDWALK
7. SECURE ANGLE TO ABUTMENT W/ 3/4" DIA. X5 1/2" LONG SS SIMPSON TITEN HD SCREW ANCHORS AT 6" O.C.
8. SET FINISHED GRADE BELOW STEEL ANGLE
9. CONCRETE ABUTMENT W/REINFORCING SEE CIVIL AND STRUCTURAL FOR DETAILS



1 BOARDWALK ABUTMENT

1" = 1'-0"

P-ST-01



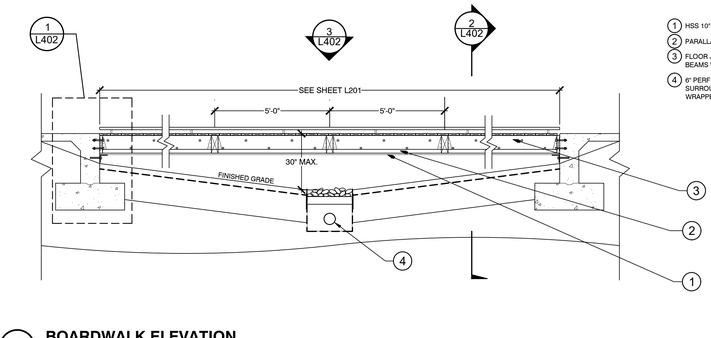
1. 2"x2" HSS SQUARE TUBE; PROVIDE 1.5"W x 2"H x 1/4" THICK STEEL PLATE STANCHION; PRE-DRILL 1/2" DIA. HOLE FOR FASTNER; PRIME AND PAINT TO MATCH OTHER BRIDGE STEEL
2. SECURE RAIL STANCHION TO STEEL SNCHOR PLATE W/ (1) #10 x 3/4" LONG S.S. PAN HEAD MACHINE SCREW AND NUT; PROVIDE NYLON WASHERS EACH SIDE
3. 1.5"W x 2"h x 1/4" THICK STEEL ANCHOR PLATE WELDED TO TOP OF BEAM @ SPACING SHOWN TO MATCH RAIL STANCHIONS; PRE-DRILL 1/2" DIA. HOLES FOR FASTENERS
4. HSS 10" x 3" x 3/16" STEEL BEAM
5. EDGE JOIST; 2" x 10"; SECURE TO STEEL BEAMS W/ 1/2" DIA. ALL-THREAD STUDS WELDED TO BEAMS AT 12" O.C.; STAGGER STUDS
6. HSS 9" x 3" x 3/16" BEAM
7. PARALLAM BEAMS: 3.5" x 9.25" PSL 2.0E TREATED
8. FLOOR JOIST; 2" x 8" AT 12" O.C. MAX; SECURE TO BEAMS W/ JOIST HANGERS

NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STEEL COMPONENTS OF BOARDWALK.
2. ALL STEEL COMPONENTS SHALL BE GALVANIZED, SHOP PRIMED, AND PAINTED IN FIELD WITH A HIGH PERFORMANCE COATING AFTER FIELD WELDING AND GRINDING IS COMPLETE.
3. HIGH PERFORMANCE COATING COLOR TO MATCH THE COLOR USED AT THE BUILDING; SEE ARCHITECT.
4. ALL WOOD FRAMING MEMBERS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.

2 BOARDWALK SECTION

1" = 1'-0"

P-ST-35



1. HSS 10" x 3" x 3/16" BEAM
2. PARALLAM BEAMS: 3.5" x 9.25" PSL 2.0E TREATED
3. FLOOR JOIST; 2" x 8" AT 12" O.C. MAX; SECURE TO BEAMS W/ JOIST HANGERS
4. 6" PERF PVC PIPE, SEE CIVIL SURROUND WITH WASHED #57 LIMESTONE WRAPPED IN NON-WOVEN GEOTEXTILE

NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STEEL COMPONENTS OF BOARDWALK.
2. ALL STEEL COMPONENTS SHALL BE GALVANIZED, SHOP PRIMED, AND PAINTED IN FIELD WITH A HIGH PERFORMANCE COATING AFTER FIELD WELDING AND GRINDING IS COMPLETE.
3. HIGH PERFORMANCE COATING COLOR TO MATCH THE COLOR USED AT THE BUILDING; SEE ARCHITECT.
4. ALL WOOD FRAMING MEMBERS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.

4 BOARDWALK ELEVATION

3/8" = 1'-0"

P-ST-40

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

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01/19/2026	PERMIT

REVISIONS

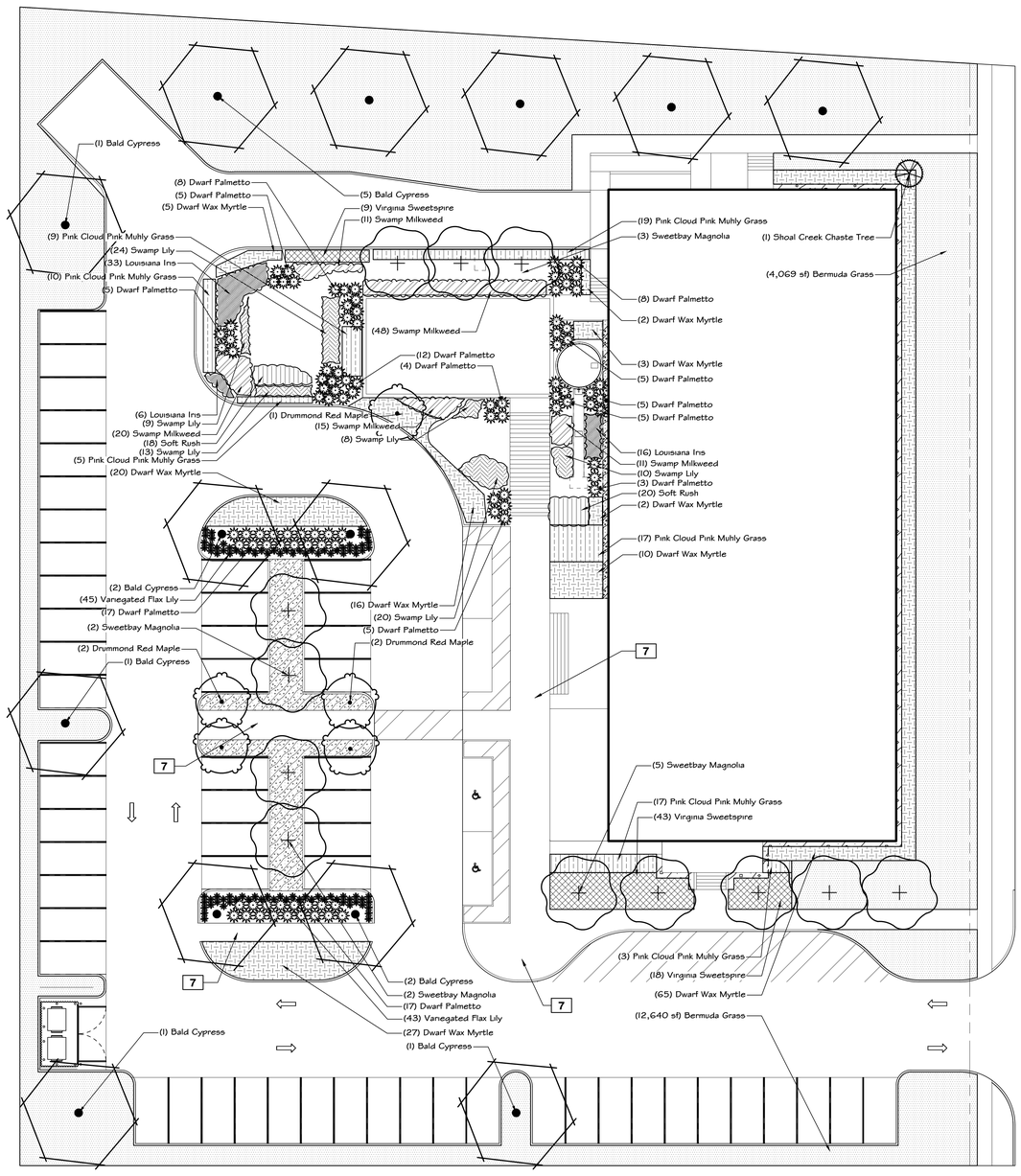
STATE OF LOUISIANA
Reg. No. 5946
LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME

BOARDWALK DETAILS

SHEET NO. L402



A PLANTING PLAN

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS
TREES						
	5	Acer rubrum drummondii	Drummond Red Maple	30 gal.	B&B	12' HT. MIN.
	12	Magnolia virginiana	Sweetbay Magnolia	30 gal.		Single Trunk
	13	Taxodium distichum	Bald Cypress	30 gal.		10'-12' height
	1	Vitex agnus-castus 'Shoal Creek'	Shoal Creek Chaste Tree	30 gal.		
SHRUBS						
	88	Dianella tasmanica 'Variegata'	Variegated Flax Lily	3 gal.		
	99	Sabal minor	Dwarf Palmetto	15 gal.		

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS
SHRUB AREAS							
	105	Asclepias incarnata	Swamp Milkweed	1 gal.	Plug	24" o.c.	
	84	Crinum americanum	Swamp Lily	1 gal.		24" o.c.	
	55	Iris louisiana	Louisiana Iris	1 gal.		24" o.c.	
	70	Itea virginica	Virginia Sweetspire	3 gal.		36" o.c.	
	38	Juncus effusus	Soft Rush	1 gal.		24" o.c.	
	80	Muhlenbergia capillaris 'Pink Cloud'	Pink Cloud Pink Muhly Grass	1 gal.		36" o.c.	
	150	Myrica pumila	Dwarf Wax Myrtle	7 gal.		48" o.c.	
GROUND COVERS							
	17,203 sf	Cynodon dactylon	Bermuda Grass	sod			

GENERAL LANDSCAPE NOTES

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS, INCLUDING PLANTING SOIL.
3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. PLANTS SHALL BE SPECIMEN QUALITY, FULL POT AND HEAD, SYMMETRICAL FOLIAGE AND BRANCHING STRUCTURE. SHRUBS SHALL BE FULL TO GROUND.
5. PLANT MATERIAL OF THE SAME SPECIES SHALL BE MATCHING IN CHARACTER AND SIZE, OBTAINED FROM THE SAME SOURCE.
6. ANY CHANGES IN PLANT MATERIAL, SIZE, QUANTITY, SPECIES OR VARIETY MUST BE APPROVED BY THE OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
7. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
8. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
9. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS, INCLUDING PLANTING SOIL.
11. CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM THICK TOPSOIL LAYER IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE AS A UNIFORM LAYER TO PRODUCE A SIX INCH (6") COMPACTED THICKNESS. TOPSOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED.
    - 50% SAND (BATCHER SAND IS PROHIBITED), 25% TOPSOIL, 25% COMPOST
12. USE TRIPLE SHREDDED HARDWOOD BARK MULCH TO A 4" DEPTH BEFORE COMPACTION IN ALL PLANTING AREAS. THOROUGHLY MIX WITH A PRE-EMERGENCE WEED KILLER
13. THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR OWNER.
14. ALL PLANTS SHALL BE INSTALLED AS PER DETAILS AND THE CONTRACT SPECIFICATIONS
15. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY, IF NECESSARY, DURING THE FIRST GROWING SEASON.
16. INSTALLATION MUST COMPLY WITH LANDSCAPE ORDINANCE.

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
	7	CONCRETE SIDEWALK, SEE CIVIL		
06 WOOD, PLASTICS AND COMPOSITES				
	06-15-01	PT WOOD DECK USE UC3B FOR DECKING, JOISTS, AND BEAMS 316 SS FASTENERS/HANGERS TREAT FIELD CUTS W/ COPPER NAPHTHENATE PROVIDE JOIST-TOP MEMBRANES	304 sf	1/L402
32 EXTERIOR IMPROVEMENTS				
	32-14-01	3x12 AQUALINE PERMEABLE PAVERS BY BELGARD	1,858 sf	/
AGGREGATE SURFACE				
	32-15-01	WASHED ANGULAR STONE, #3, 4" DEPTH	19.2 cy	7/L401
PLANTING ACCESSORIES				
	32-94-01	1/4" STEEL METAL EDGE, MILL FINISH	370 lf	7/L401

BIORETENTION FACILITY NOTES

1. BIORETENTION FACILITIES INCLUDE BIOSWALES, RAIN GARDENS, BIOCELLS, INFILTRATION TRENCHES, AND OTHER FEATURES THAT MANAGE STORMWATER USING INFILTRATION TECHNIQUES, SOIL AMENDMENTS, AND/OR PLANT MATERIALS
2. PROTECTING THE BIORETENTION FACILITY DURING CONSTRUCTION FROM RUNOFF SEDIMENT IS OF THE UTMOST IMPORTANCE.
3. FAILURE TO INSTALL APPROPRIATE CONSTRUCTION SITE STORMWATER RUNOFF CONTROL MEASURES AT THE EDGES OF BIORETENTION FACILITIES SHALL RESULT IN RE-WORK AT THE CONTRACTOR'S EXPENSE.
4. STORMWATER CONTROL MEASURES MAY INCLUDE PERIMETER CONTROLS, CHECK DAMS, SLOPE PROTECTION, STORM DRAIN INLET PROTECTION, AND CONCRETE WASHOUT STRUCTURES.
5. ALL AGGREGATE MATERIALS USED IN BIORETENTION FACILITIES SHALL BE WASHED AND FREE OF DEBRIS, DUST, OR FINES.
6. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL SITE CONSTRUCTION BMP'S.

patch
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PERMIT

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01/19/2026	PERMIT

REVISIONS

1	10/28/2025	RFI 17

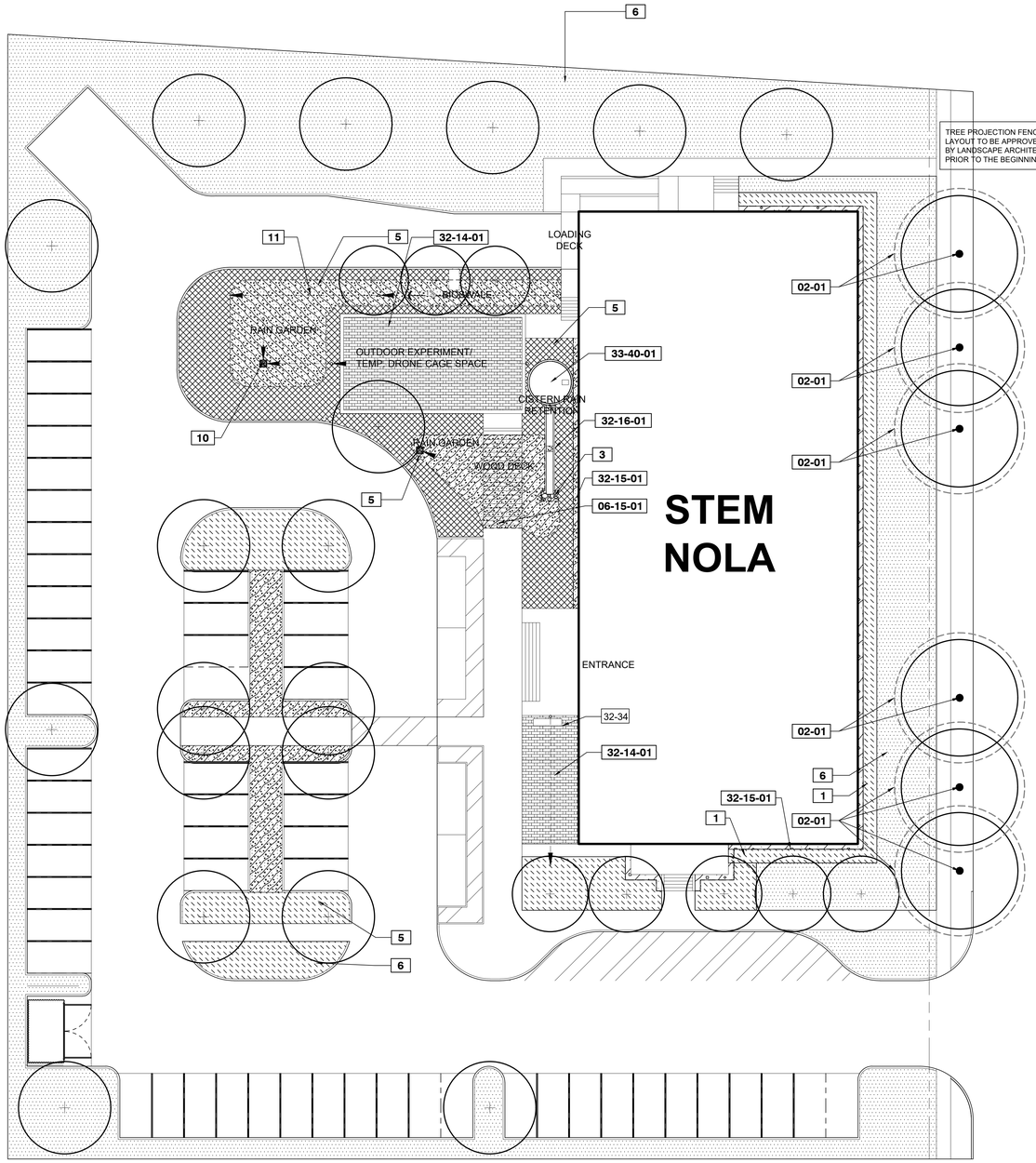
STATE OF LOUISIANA — BRETT PATCH — LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME

PLANTING PLAN

SHEET NO. L501



A OVERALL LANDSCAPE PLAN

0 16 32 48 feet

SCALE: 1/16" = 1'-0"

NORTH

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION
	1	PLANTING AREA
	3	ANGULAR RIPRAP 6-12", 12" THICK, OVER NONWOVEN GEOTEXTILE
	5	BIORENTENTION PLANTING WITH BIORETENTION SOIL MIX, 12" MIN.
	6	TURF GRASS
	10	RAIN GARDEN OVERFLOW STRUCTURE SEE CIVIL FOR DETAIL. SEE L302.
	11	BIOSWALE CENTER LINE

02 EXISTING CONDITIONS

02-01	EXISTING LIVE OAKS TO REMAIN PROTECTED PER DEPT. OF PARKS AND PARKWAYS STANDARD DETAILS AND SPECIFICATIONS. NO WORK CAN COMMENCE ON SITE WITHOUT A PRECONSTRUCTION MEETING WITH THE PARKS & PARKWAYS ARBORIST.

06 WOOD, PLASTICS AND COMPOSITES

06-15-01	PT WOOD DECK USE UC3B FOR DECKING, JOISTS, AND BEAMS 316 SS FASTENERS/HANGERS TREAT FIELD CUTS W/ COPPER NAPHTHENATE PROVIDE JOIST-TOP MEMBRANES

32 EXTERIOR IMPROVEMENTS

32-14-01	3x12 AQUALINE PERMEABLE PAVERS BY BELGARD

AGGREGATE SURFACE

32-15-01	WASHED ANGULAR STONE, #3, 4" DEPTH

CURBS AND GUTTERS

32-16-01	SS SCUPPER WATER FEATURE

Site Furnishings

32-34	SINKER CYPRESS BENCH ON CONC. BASE CONC. BASE CONSIDERED INCIDENTAL

PLANTING ACCESSORIES

32-94-01	1/4" STEEL METAL EDGE, MILL FINISH

33 UTILITIES

33-40-01	15,500 GAL VERTICAL HDPE CISTERN ON REINF. CONC. PAD VINYL WRAP ON HDPE: LSE-RATED CAST FILM W/ UV LAM

CISTERN & RUNNEL NOTES

15,500 GAL HDPE CISTERN ON REINF. CONC. PAD;

6" CISTERN OVERFLOW TO RUNNEL HEADBOX — FREE DISCHARGE SPOUT W/ ≥2" AIR GAP OVER CHANNEL; ANTI-VORTEX & INSECT SCREEN AT TANK.

3" CONTROLLED DISCHARGE (MOTORIZED BALL VALVE) TO SAME HEADBOX VIA DIFFUSER PLATE; PROVIDE MANUAL BYPASS.

RUNNEL HEADBOX (24"×24"): REMOVABLE SS TRASH BASKET, DIFFUSER, AND ENERGY DISSIPATION; LIP EL. ABOVE RUNNEL FREEBOARD.

STEEL RUNNEL CHANNEL (24" W × 6" D) ON MONOLITHIC CONC. PLINTH; SLOPE 1.0% (±0.10%); CHANNEL LIP PROJECTS 3–4" PAST FACE.

ENERGY DISSIPATION APRON AT RUNNEL OUTLET — ANGULAR RIPRAP 6–12" (D50=9"), 18" THK OVER NON-WOVEN GEOTEXTILE; APRON = RUNNEL WIDTH + 24" × 36" MIN; KEY EDGES 6".

SET RUNNEL INVERT @ HEADBOX ≥3" BELOW THE OVERFLOW SPOUT INVERT.

SET HEADBOX RIM ≥2" ABOVE RUNNEL DESIGN FREEBOARD (NO SPLASHOUT UNDER OVERFLOW).

CONTROLLED DISCHARGE INVERT LOWER THAN OVERFLOW INVERT (BOTH DAYLIGHT TO SAME HEADBOX).

RUNNEL SLOPES CONTINUOUSLY TO RAIN GARDEN; NO SAGS.

RAIN GARDEN EMERGENCY SPILLWAY MUST BE LOWER THAN CISTERN MANWAY AND HIGHER THAN RAIN GARDEN RIM.

OVERFLOW AND CONTROLLED DISCHARGE BOTH ENTER THE RUNNEL; THE RUNNEL CONVEYS TO THE RAIN GARDEN. NO SEPARATE BYPASS.

MAINTAIN AIR GAP AT OVERFLOW; DO NOT SUBMERGE OVERFLOW OUTLET.

PROVIDE SCREENS AT TANK OVERFLOW AND A REMOVABLE TRASH BASKET IN HEADBOX; CLEAN AFTER STORMS AND QUARTERLY.

SIZE RUNNEL/APRON FOR OVERFLOW PEAK (≥ ROOF INLET CAPACITY FOR DESIGN STORM).

ALL STAINLESS FASTENERS AT WATER HARDWARE; POLYURETHANE SEALANT BETWEEN STEEL CHANNEL AND CONCRETE.

GENERAL NOTES

WORK COVERED BY THIS SECTION INCLUDES FURNISHING OF AND PAYING FOR ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, OTHER ITEMS, AND APPLIANCES NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE DRAWING.

PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK AND PROVIDE FOR ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITY LINES (TELEPHONE, GAS, WATER, ELECTRICAL, CABLE, ETC.) PRIOR TO START OF ANY WORK.

CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING
THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES.

NO ATTEMPT HAS BEEN MADE BY PATCH LANDSCAPE ARCHITECTURE LLC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIP, SERVITUDES, EASEMENTS, RIGHT- OF - WAYS, OR OTHER BURDENS ON THE PROPERTY OTHER THAN THAT FURNISHED BY THE CLIENT AND/OR HIS REPRESENTATIVE. CONTRACTOR SHALL CONFIRM.

THE LOCATION OF PROPERTY LINES, SERVITUDES AND UTILITIES ARE APPROXIMATE AND WERE FURNISHED BY ORIGINAL SURVEYED INFORMATION. PATCH LANDSCAPE ARCHITECTURE LLC DOES NOT WARRANT THE EXACT LOCATION OF INFORMATION SHOWN. CONTRACTOR SHALL CONFIRM

FOR UNDERGROUND INFORMATION:
LOUISIANA ONE CALL 1 800 272 3020

TREE AND LANDSCAPE PROTECTION NOTES

1. GENERAL REQUIREMENTS:
   - ALL EXISTING TREES, PLANT MATERIAL, AND NATURAL LANDSCAPE FEATURES SHOWN TO BE PRESERVED ON THE PLANS SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CITY OF NEW ORLEANS DEPARTMENT OF PARKS AND PARKWAYS.
   - PROTECTION MEASURES SHALL BE INSTALLED BEFORE ANY SITE WORK BEGINS AND SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF CONSTRUCTION OR FINAL LANDSCAPING.
2. TREE PROTECTION FENCING:
   - ERECT TREE PROTECTION FENCING AROUND THE DRIPLINE OF ALL TREES TO BE PRESERVED, UNLESS OTHERWISE NOTED. THE FENCE SHALL BE INSTALLED AT A MINIMUM OF 6 FEET FROM THE BASE OF THE TREE.
   - THE FENCING SHALL BE 4 FEET HIGH AND CONSIST OF CHAIN-LINK, OR APPROVED EQUIVALENT.
   - SIGNS SHALL BE POSTED ON THE FENCING THAT READ "TREE PROTECTION AREA - NO ENTRY."
3. ROOT ZONE PROTECTION:
   - NO CONSTRUCTION ACTIVITY, GRADING, STORAGE OF MATERIALS, OR PARKING OF VEHICLES SHALL OCCUR WITHIN THE TREE PROTECTION AREA (ROOT ZONE).
   - IF ROOTS OVER 2 INCHES IN DIAMETER ARE ENCOUNTERED DURING EXCAVATION NEAR THE PROTECTION AREA, THEY SHALL BE CLEANLY CUT AND PROTECTED BY WRAPPING IN BURLAP TO PREVENT DESICCATION. ANY EXPOSED ROOTS SHALL BE COVERED WITH SOIL OR MULCH AS SOON AS POSSIBLE.
4. MULCHING AND WATERING:
   - MAINTAIN A 4-6 INCH LAYER OF ORGANIC MULCH WITHIN THE TREE PROTECTION AREA, KEEPING THE MULCH 2-3 INCHES AWAY FROM THE TREE TRUNK.
   - ENSURE ADEQUATE IRRIGATION FOR TREES, PARTICULARLY DURING DRY PERIODS. WATER DEEPLY TO ENCOURAGE ROOT GROWTH AND REDUCE STRESS DURING CONSTRUCTION.
5. PRUNING:
   - PRUNE TREES ONLY WHEN NECESSARY AND UNDER THE SUPERVISION OF A CERTIFIED ARBORIST. ALL PRUNING SHALL CONFORM TO ANSI A300 STANDARDS.
   - ANY LIMBS THAT NEED TO BE REMOVED FOR CLEARANCE OR SAFETY SHALL BE CUT USING PROPER ARBORICULTURAL PRACTICES TO AVOID DAMAGING THE TREE.
6. PROHIBITED ACTIVITIES:
   - NO STORAGE OF CONSTRUCTION MATERIALS, SOIL, CHEMICALS, OR WASTE SHALL OCCUR WITHIN THE TREE PROTECTION AREA.
   - NO HEAVY EQUIPMENT SHALL BE DRIVEN OVER THE TREE PROTECTION AREA, AND NO TRENCHING OR COMPACTION OF SOIL SHALL OCCUR WITHIN THIS AREA.
7. LANDSCAPING WITHIN PROTECTED AREAS:
   - NEW PLANTINGS WITHIN THE TREE PROTECTION AREAS SHALL BE DONE CAREFULLY BY HAND TO AVOID DISTURBING TREE ROOTS. THE USE OF HEAVY EQUIPMENT IN THESE AREAS IS PROHIBITED.
   - CARE SHALL BE TAKEN TO PRESERVE THE INTEGRITY OF THE ROOT ZONE AND THE HEALTH OF THE TREE DURING THE INSTALLATION OF ANY LANDSCAPE MATERIALS.
8. TREE PROTECTION INSPECTION:
   - THE TREE PROTECTION MEASURES SHALL BE INSPECTED BY THE PROJECT LANDSCAPE ARCHITECT OR DESIGNATED ARBORIST PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND PERIODICALLY THROUGHOUT THE PROJECT.
   - ANY DAMAGE TO THE TREE PROTECTION FENCING OR ANY UNAUTHORIZED DISTURBANCES WITHIN THE PROTECTED AREAS MUST BE REPORTED IMMEDIATELY AND RECTIFIED TO MINIMIZE IMPACTS ON THE EXISTING TREES.
9. POST-CONSTRUCTION CARE:
   - UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL TREE PROTECTION MEASURES SHALL BE CAREFULLY REMOVED.
10. RESTORATION:
    - IN THE EVENT THAT ANY PROTECTED TREES OR LANDSCAPE ELEMENTS ARE DAMAGED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
11. SEE SHEET C300 FOR ROOT PRUNING AND BRIDGING AT CURBS AND SIDEWALKS IN PUTLIC RIGHT OF WAY.

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4435 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

REVISIONS

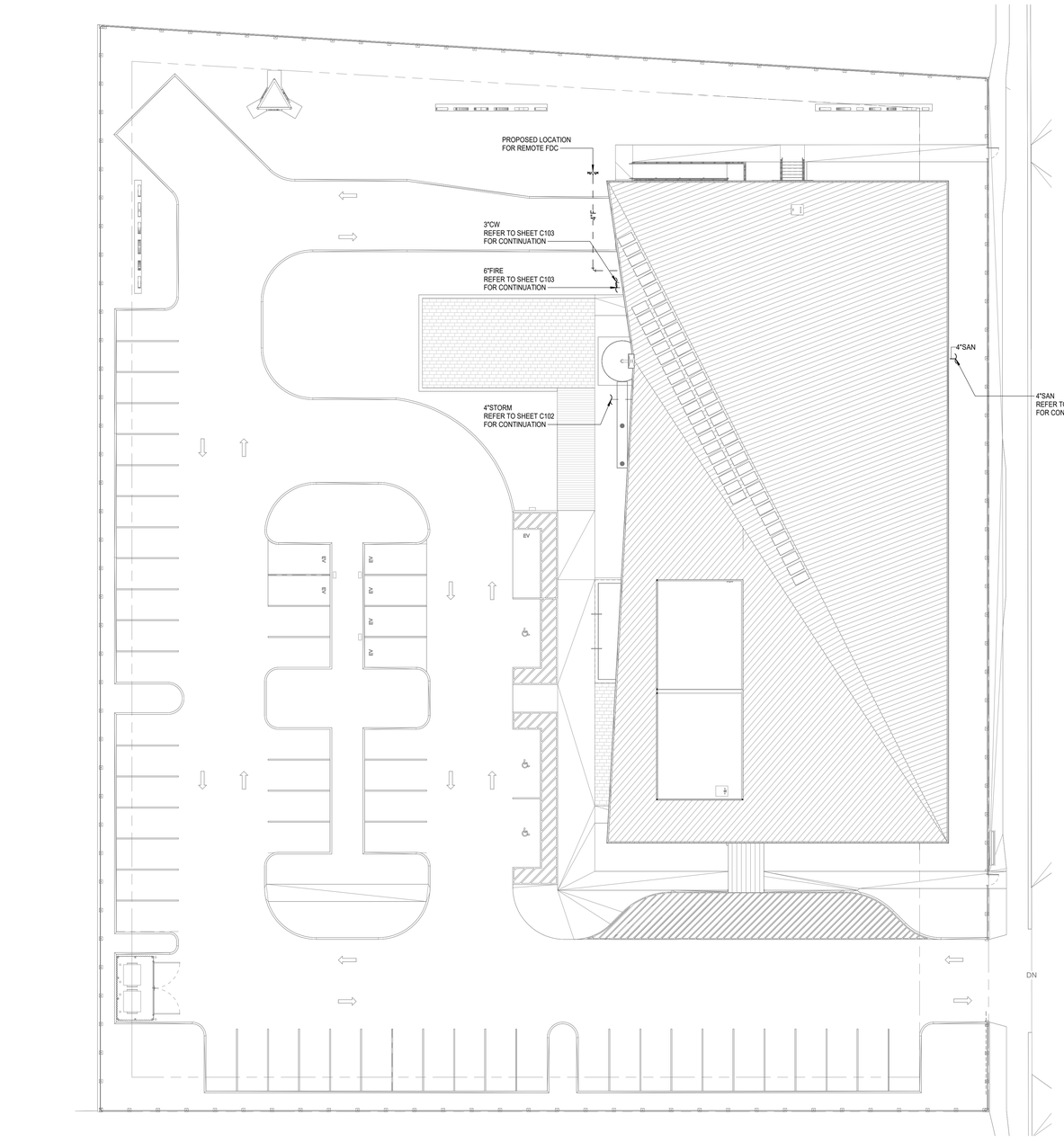
01/27/2026	TREE PROTECTION	

STATE OF LOUISIANA
Reg. No. 3646
LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
OVERALL LANDSCAPE PLAN

SHEET NO. L101



N

1 **PLUMBING SITE PLAN**
Scale: 1/16" = 1'-0"

FIRE SPRINKLER

A. DESIGN AND FURNISH LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF A HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM WITH THE ATTENDANT ACCESSORIES FOR ENTIRE AREA.

B. STUDY THE GENERAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.

C. THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEMS SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE STANDARD BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING JURISDICTION.

D. IT SHALL BE THE FIRE PROTECTION INSTALLERS RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.

E. REFER TO SPECIFICATIONS FOR PIPE MATERIALS.

F. LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS FOR UP TO DATE CHANGES TO EXISTING SYSTEM AND TO COMPLY WITH NEW SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTES:

1. THE FOLLOWING IS A LIST OF FIRE HYDRANT FLOW TESTS THAT WERE CONDUCTED BY COASTAL FIRE PROTECTION, L.L.C. 10/20/25 FOR THE SITE:

   A. HYDRANT 1: LOCATION: I-10 SERVICE RD & PLAZA DR. STATIC @ 42PSI, RESIDUAL @ 34PSI, FLOWING GPM @ 919.

PLUMBING

1. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING ON SITE PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
2. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
3. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
4. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
5. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
6. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
7. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
8. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
9. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF. MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

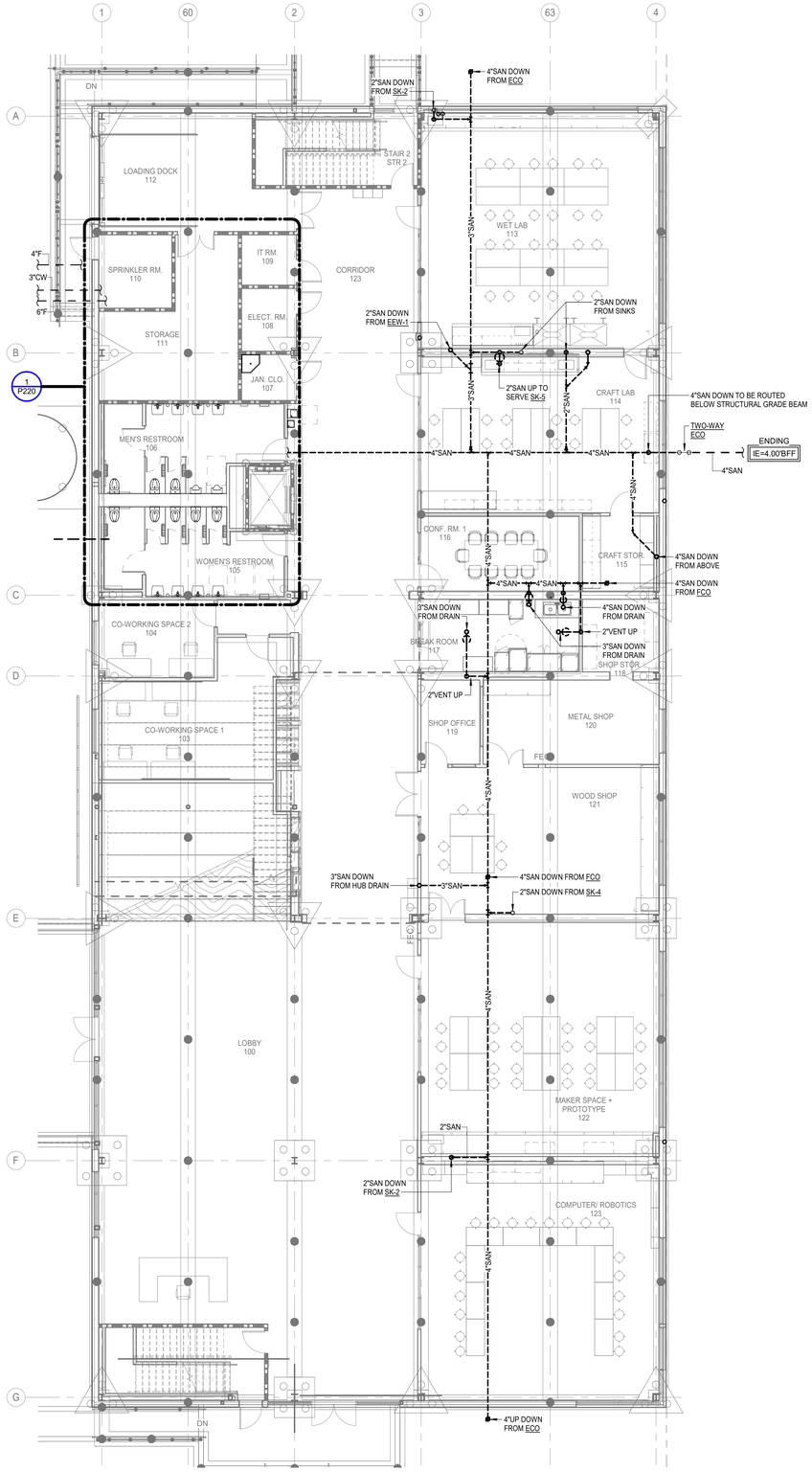
STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
01/15/2026

Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

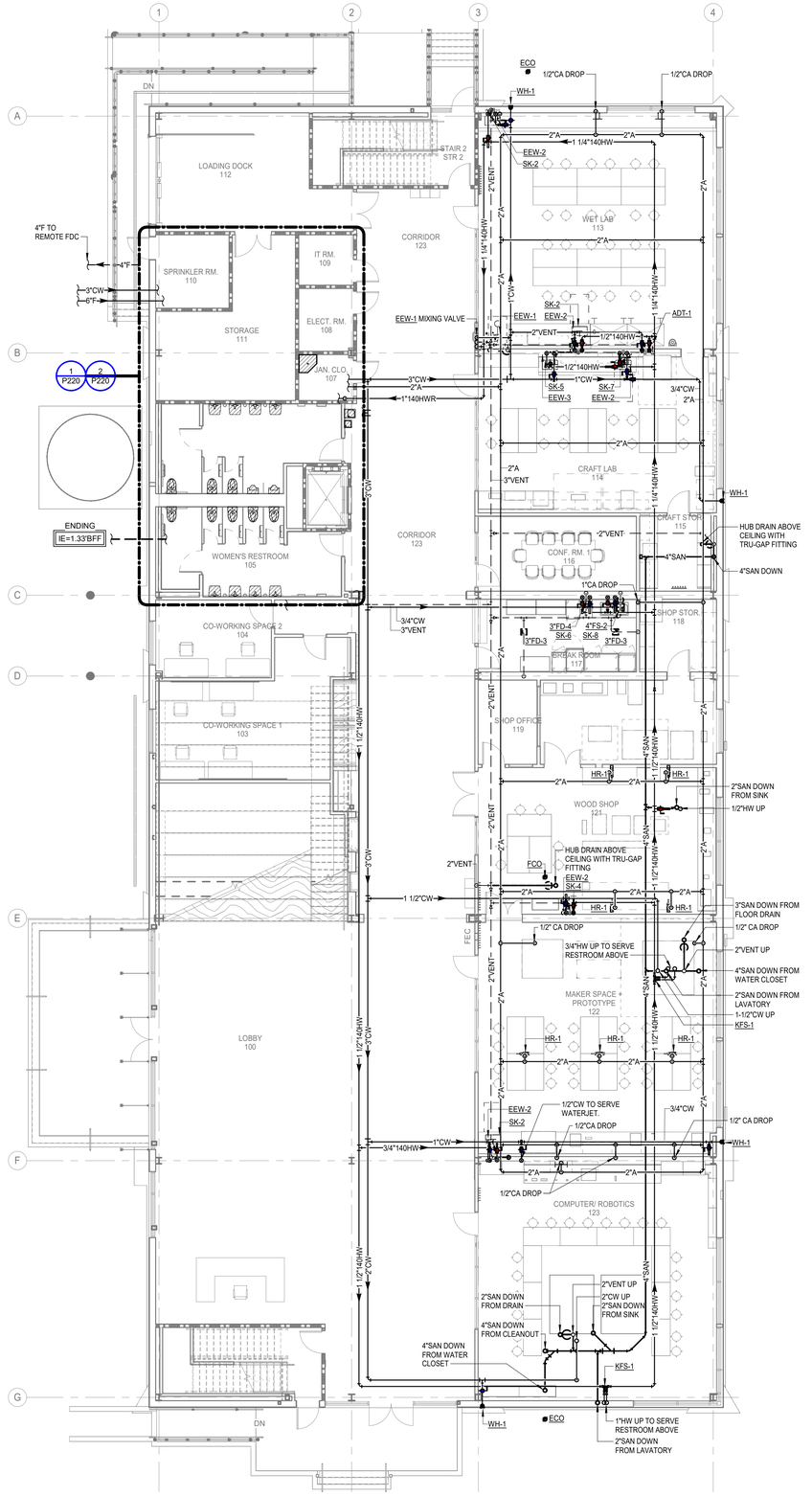
WDG Project No: 2024002

SHEET NAME
PLUMBING SITE PLAN

SHEET NO. P100



N 1 **UNDERGROUND FLOOR PLUMBING PLAN**
Scale: 1/8" = 1'-0"



N 3 **FIRST FLOOR PLUMBING PLAN**
Scale: 1/8" = 1'-0"

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Registration: 0005857
Project No: 2550-00645

WILLARD DESIGN GROUP
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PERMIT SET

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DAVID BONAVENTURE
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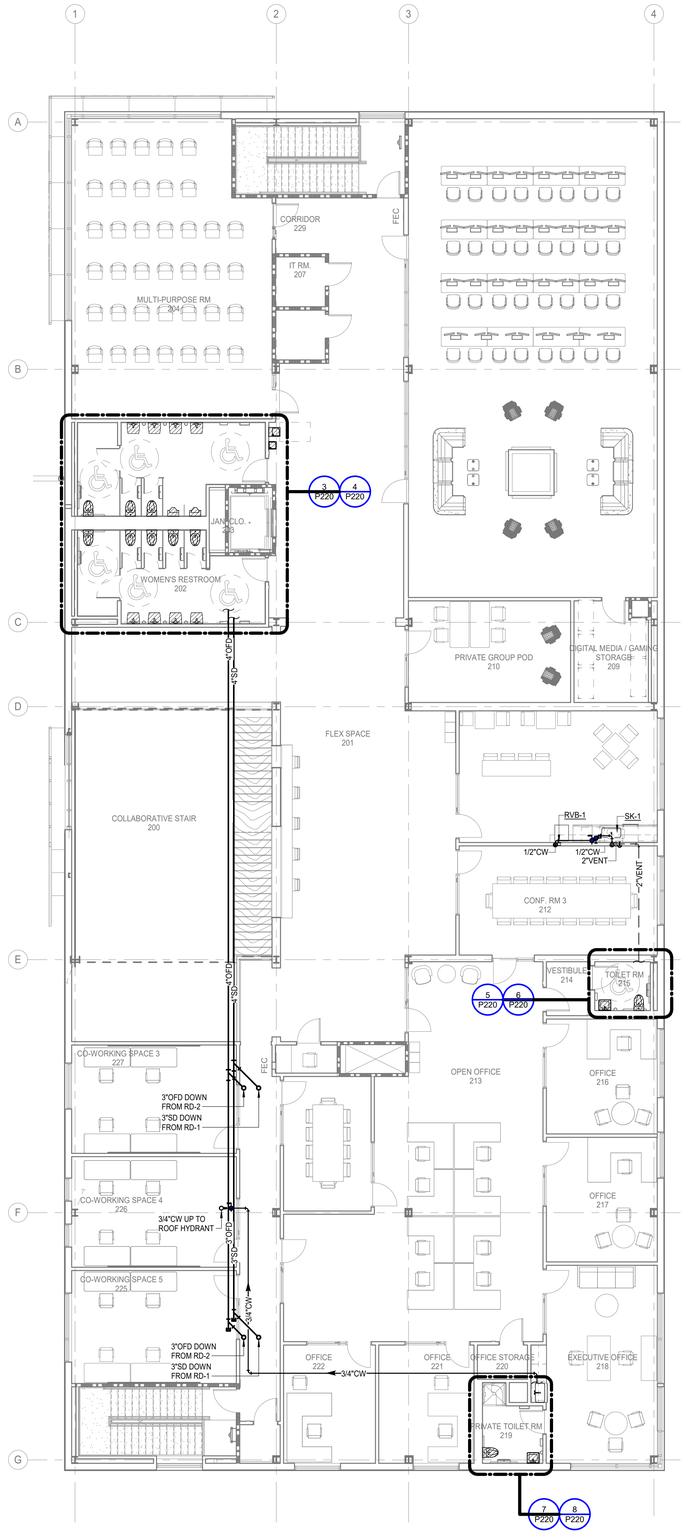
PROFESSIONAL ENGINEER
01/15/2026

WDG Project No: 2024002

SHEET NAME
PLUMBING FLOOR PLANS

SHEET NO. P201



N

1 SECOND FLOOR PLUMBING PLAN

Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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Project No: 2550-00645

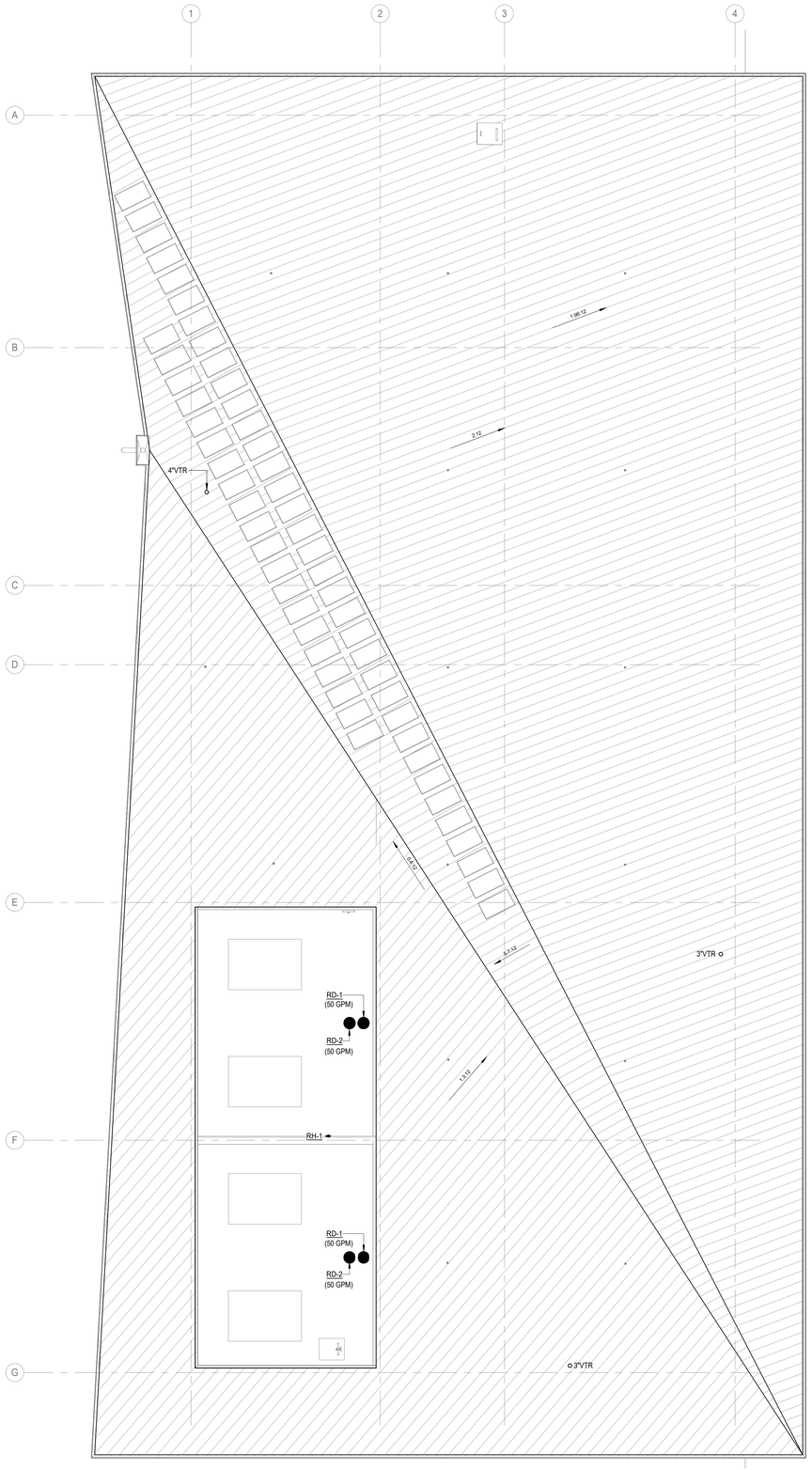
WDG Project No: 2024002

SHEET NAME

PLUMBING FLOOR PLANS

SHEET NO.

P202



N

1 **PLUMBING ROOF PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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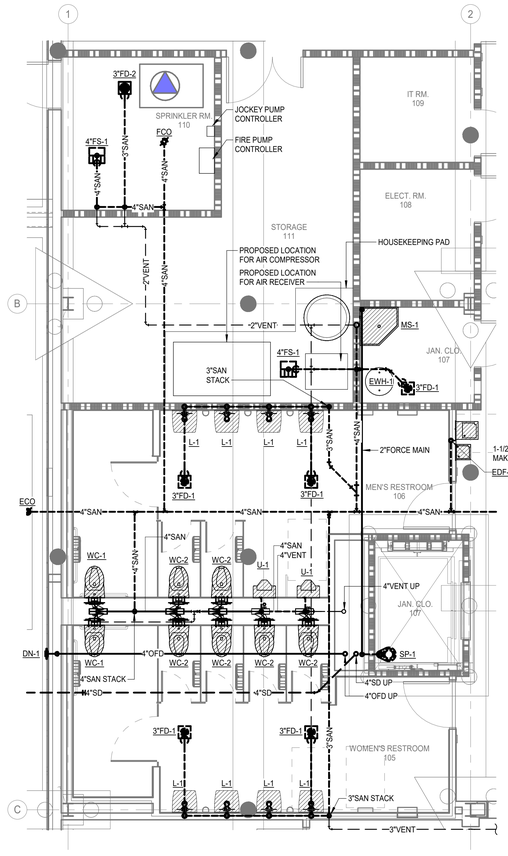
Project No: 2550-00645

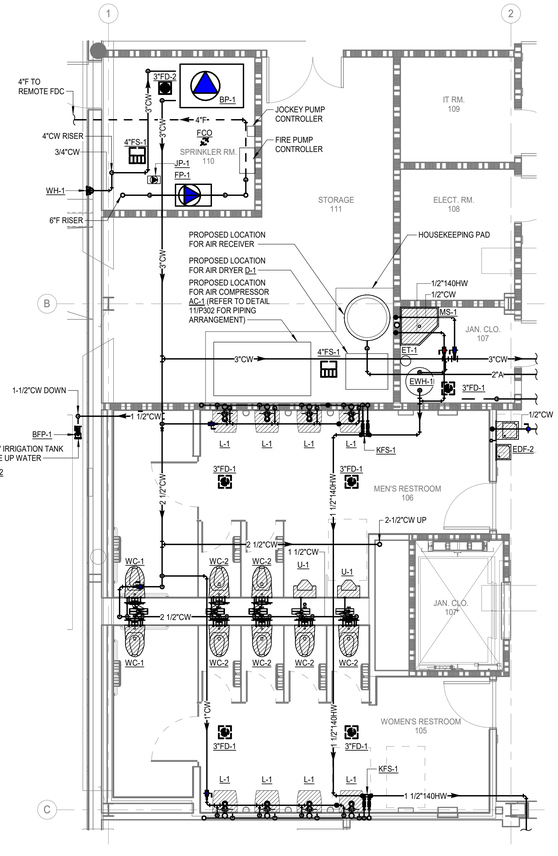
WDG Project No: 2024002

SHEET NAME
PLUMBING ROOF PLAN

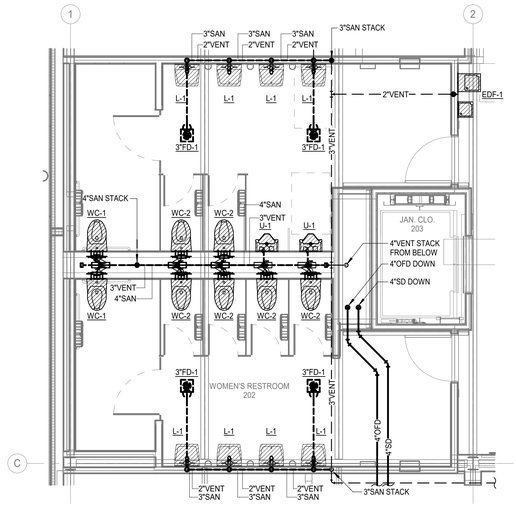
SHEET NO.
P211



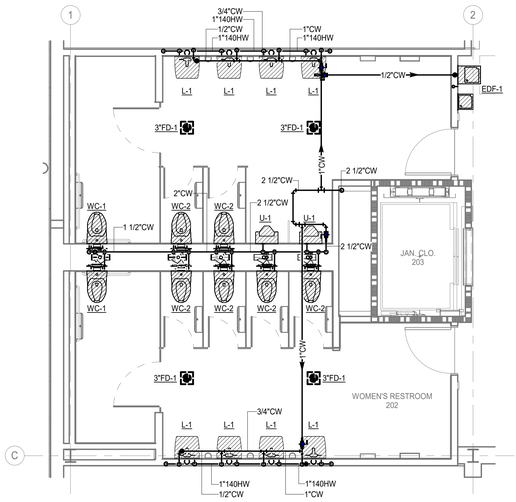
1 PLUMBING ENLARGED PLAN - SANITARY WASTE AND VENT
Scale: 1/4" = 1'-0"



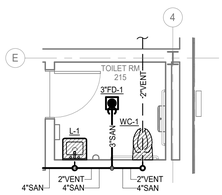
2 PLUMBING ENLARGED PLAN - WATER
Scale: 1/4" = 1'-0"



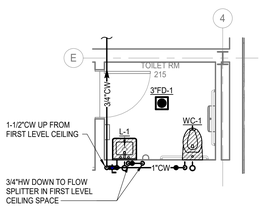
3 SECOND FLOOR ENLARGED PLUMBING PLAN - SANITARY WASTE AND VENT
Scale: 1/4" = 1'-0"



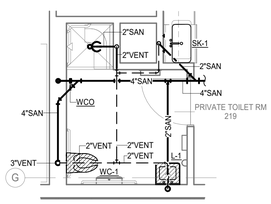
4 SECOND FLOOR ENLARGED PLUMBING PLAN - WATER
Scale: 1/4" = 1'-0"



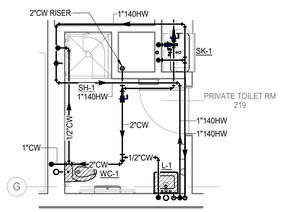
5 TOILET RM 215 ENLARGED PLAN - SANITARY WASTE AND VENT
Scale: 1/4" = 1'-0"



6 TOILET RM 215 ENLARGED PLAN - WATER
Scale: 1/4" = 1'-0"



7 TOILET RM 219 ENLARGED PLAN - SANITARY WASTE AND VENT
Scale: 1/4" = 1'-0"



8 TOILET RM 219 ENLARGED PLAN - WATER
Scale: 1/4" = 1'-0"

WILLARD DESIGN GROUP
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PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
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01/15/2026	PERMIT SET

REVISIONS

STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
01/15/2026

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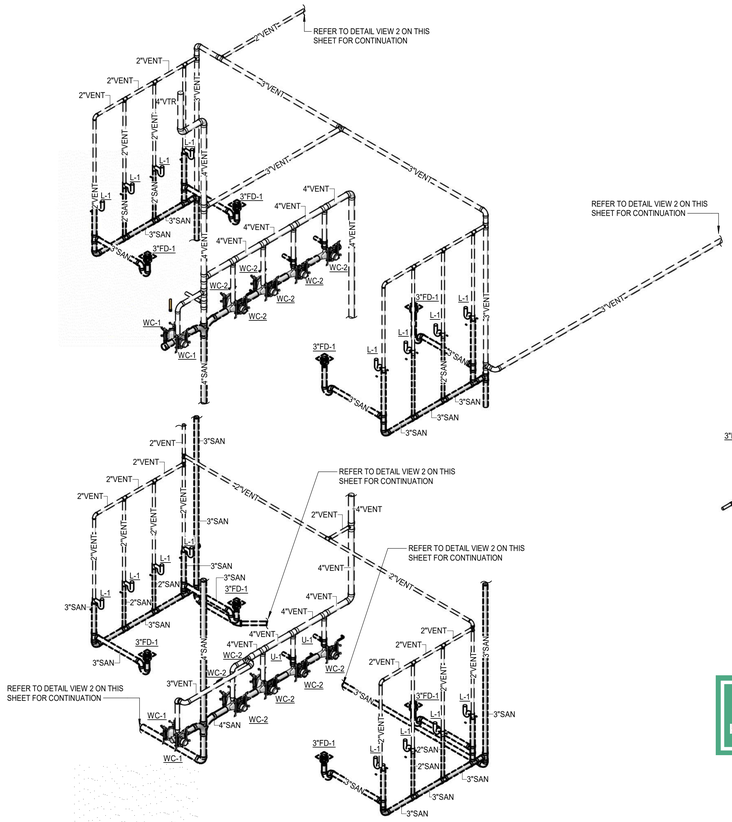
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

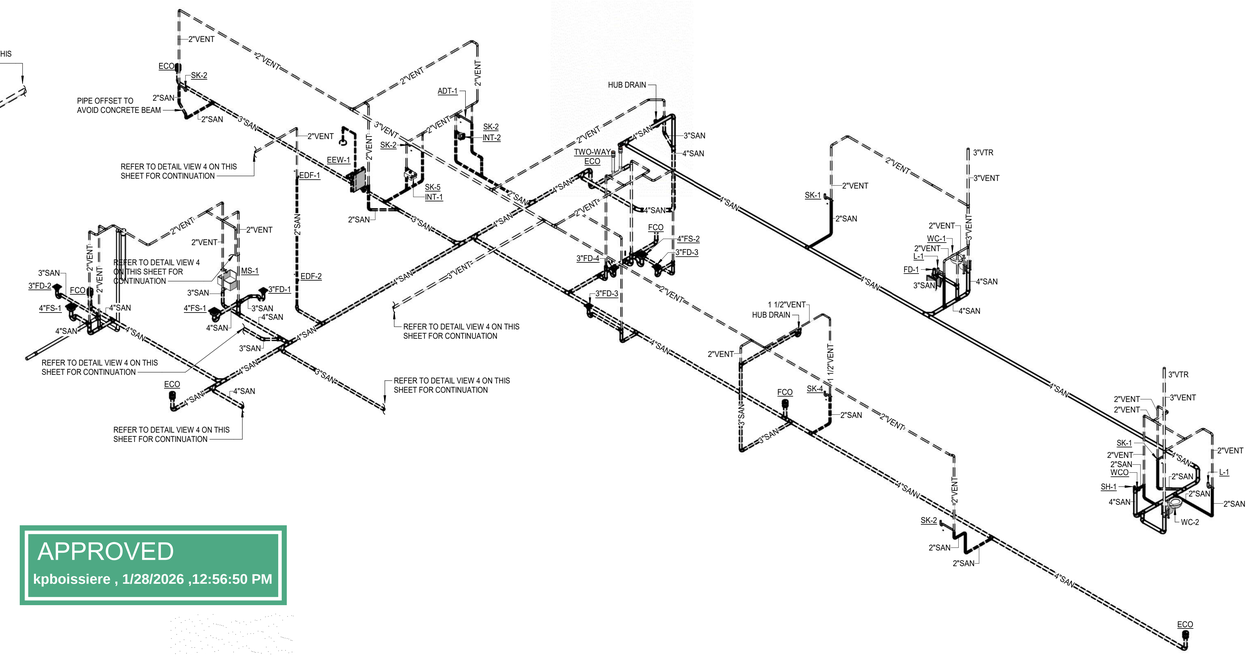
SHEET NAME
PLUMBING ENLARGED PLANS

SHEET NO.
P220



4 GROUP RESTROOM 1ST LEVEL

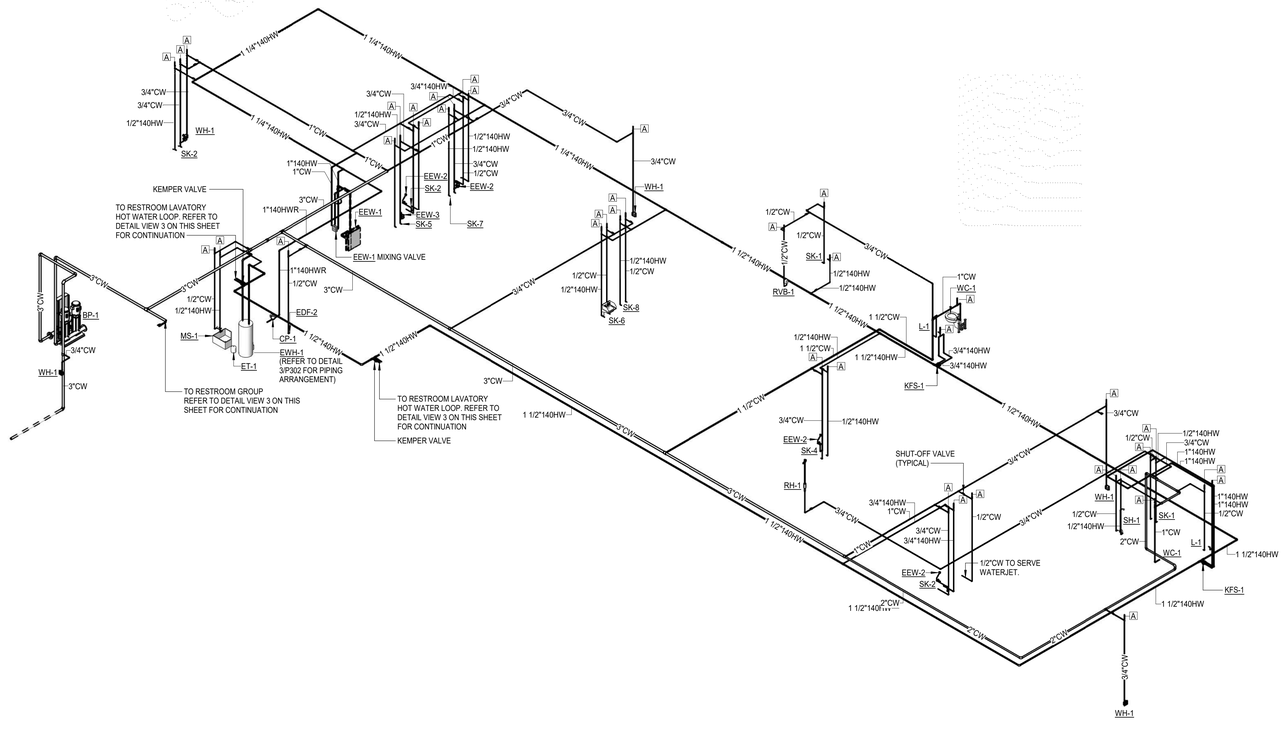
Scale:



APPROVED
kpboissiere , 1/28/2026 ,12:56:50 PM

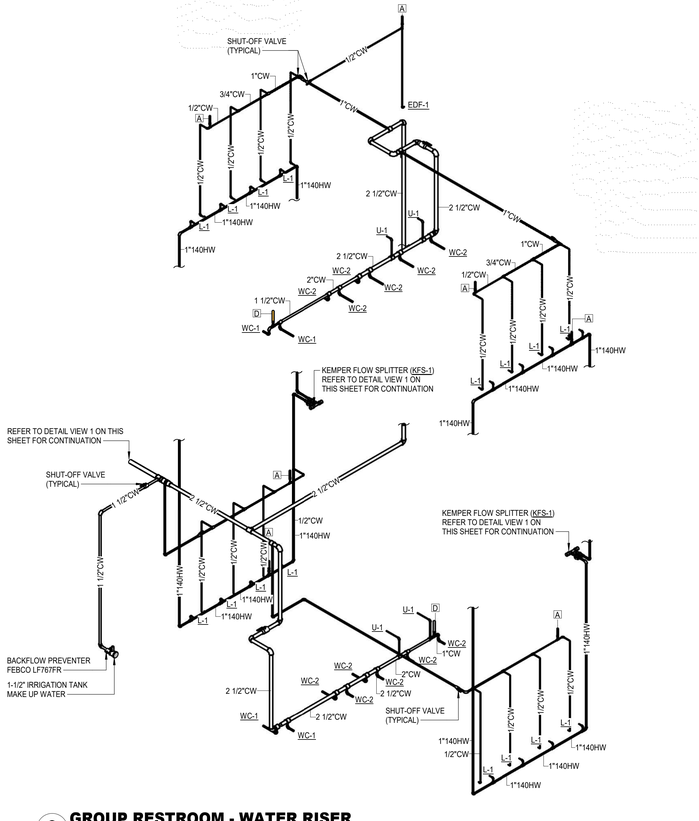
2 OVERALL PLUMBING RISER DIAGRAM - WASTE & VENT

Scale:



3 GROUP RESTROOM - WATER RISER

Scale:



1 OVERALL PLUMBING RISER DIAGRAM - DOMESTIC WATER

Scale:

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

01/15/2026

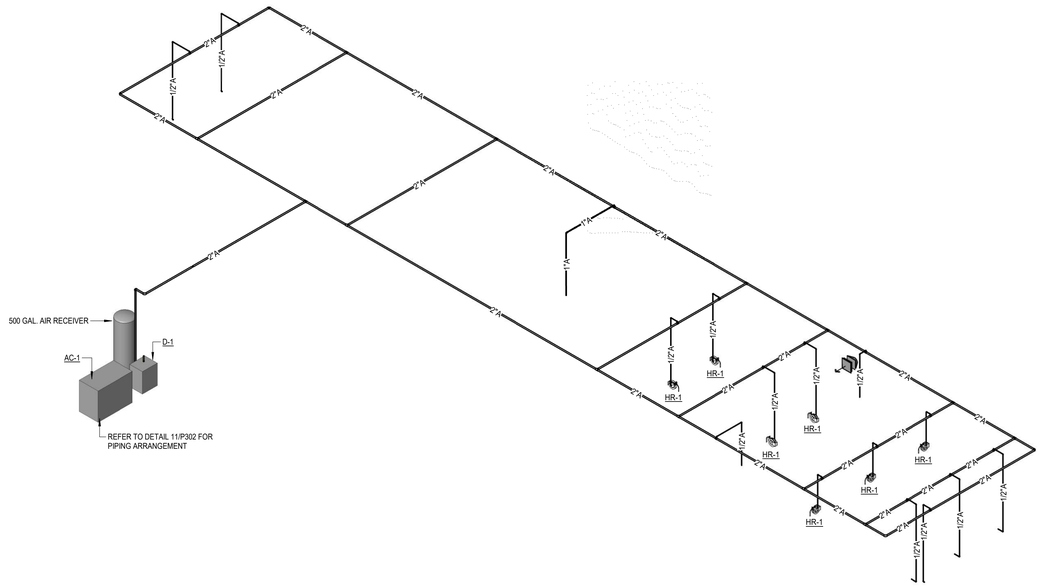
Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME

PLUMBING RISERS

SHEET NO. P230



1 **OVERALL PLUMBING RISER - COMPRESSED AIR**
Scale:

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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REVISIONS

STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
01/15/2026

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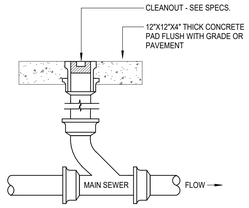
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

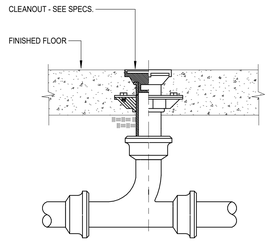
WDG Project No: 2024002

SHEET NAME
PLUMBING RISERS

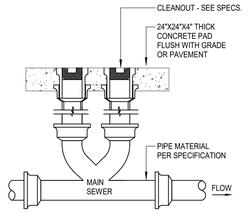
SHEET NO. P231



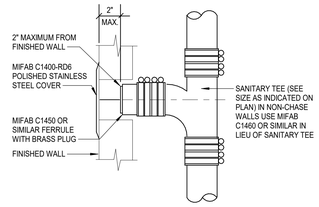
1 EXTERIOR CLEANOUT
SCALE: NONE



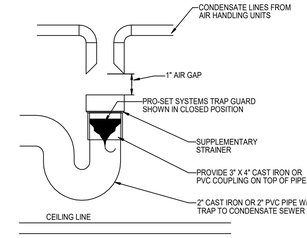
2 FLOOR CLEANOUT
SCALE: NONE



3 TWO-WAY EXTERIOR CLEANOUT
SCALE: NONE

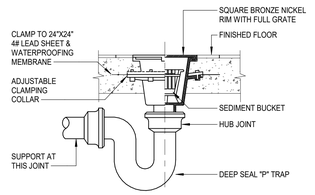


4 WALL CLEANOUT
SCALE: NONE

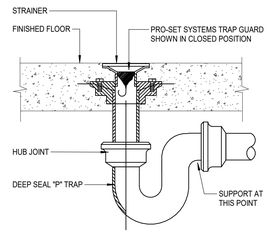


NOTES:
1. TRAP GUARD SHALL BE FACTORY FITTED TO MATCH EACH HUB DRAIN BY SIZE, MODEL, AND MANUFACTURER.
2. INSTALLATION OF TRAP GUARD TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. INSERT TRAP GUARD ONLY AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS TITE SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.
4. PROVIDE ALL HUB DRAINS WITH TRU-GAP FITTING. REFER TO DETAIL 15/P301.

5 HUB DRAIN DETAIL
SCALE: NONE

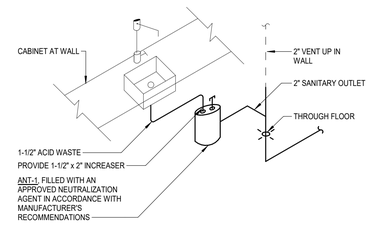


6 FLOOR SINK
SCALE: NONE

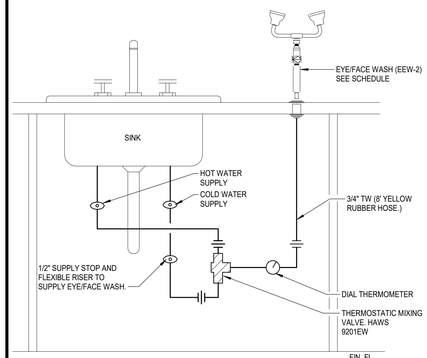


NOTES:
1. TRAP GUARD SHALL BE FACTORY FITTED TO MATCH EACH FLOOR DRAIN (AND/FLOOR SINK) BY SIZE, MODEL, AND MANUFACTURER.
2. CONTACT LOCAL REP OR MANUFACTURER FOR CORRECT MODEL NUMBER.
3. FLOOR SINK TRAP GUARD INSTALLATION IS SIMILAR.
4. INSTALLATION OF TRAP GUARD TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. INSERT TRAP GUARD ONLY AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS TITE SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

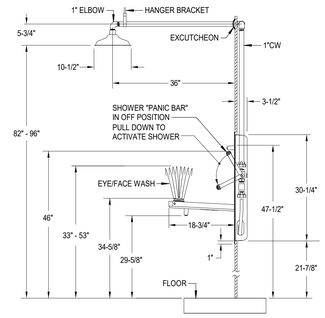
7 TRAP SEAL PROTECTION
SCALE: NONE



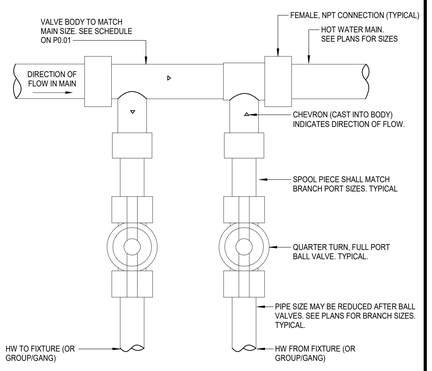
8 LAB SINK DETAIL
SCALE: NONE



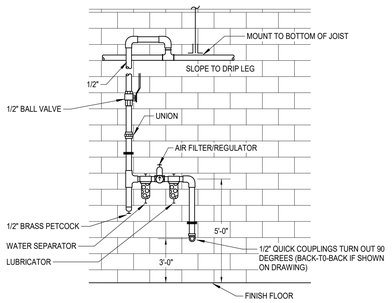
PM - DECK MOUNT EMERGENCY EYE/FACE WASH
SCALE: NONE



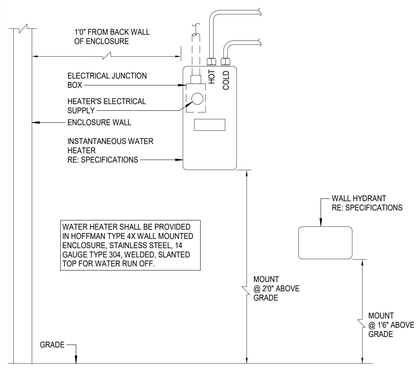
PM - DECK MOUNT EMERGENCY EYE/FACE WASH
SCALE: NONE



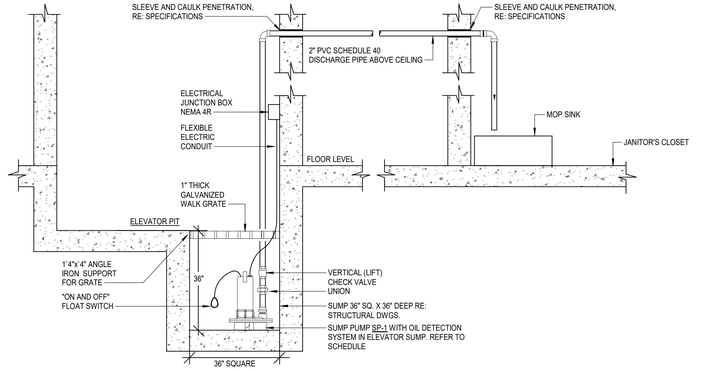
11 FLOW SPLITTER DETAIL
SCALE: NONE



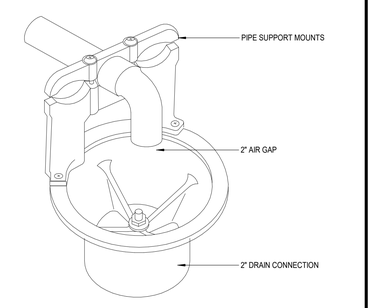
12 AIR DROP DETAIL
SCALE: NONE



13 OUTDOOR ELECTRIC WATER HEATER DETAIL
SCALE: NONE



14 ELEVATOR PIT SUMP PUMP
SCALE: NONE



15 TRAP SEAL PROTECTION
SCALE: NONE

WILLARD DESIGN GROUP
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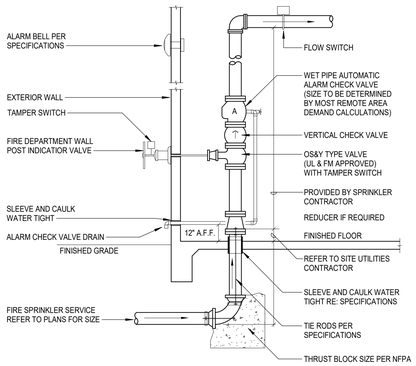
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
01/15/2026

Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

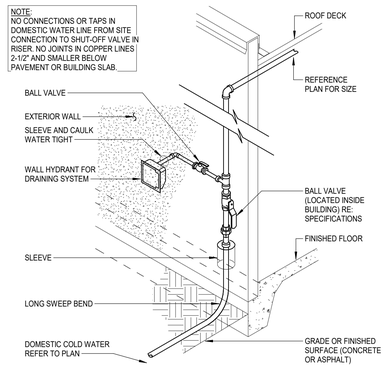
WDG Project No: 2024002

SHEET NAME
PLUMBING DETAILS

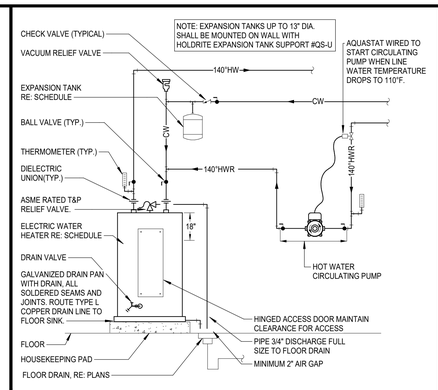
SHEET NO.
P301



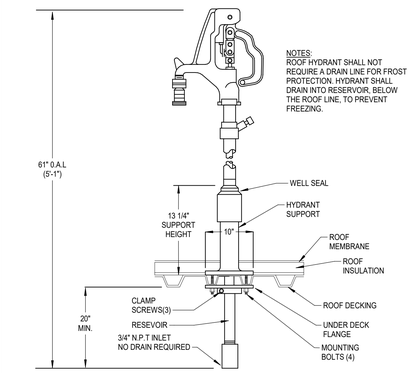
1 FIRE ENTRY PIPING
SCALE: NONE



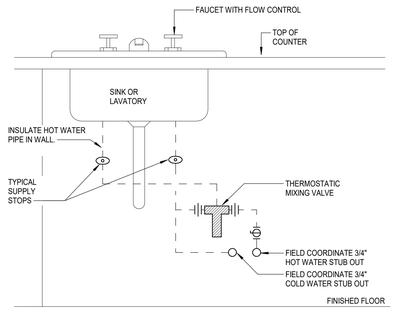
2 DOMESTIC WATER ENTRY
SCALE: NONE



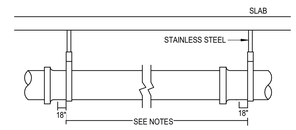
3 ELECTRIC WATER HEATER PIPING
SCALE: NONE



4 ROOF HYDRANT DETAIL
SCALE: NONE

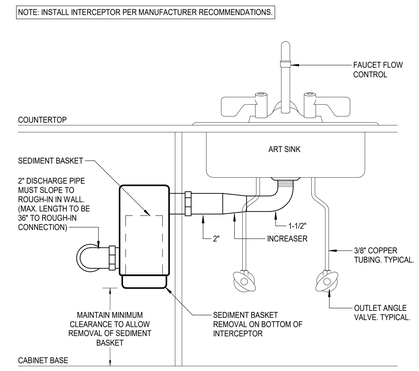


5 THERMOSTATIC MIXING VALVE PIPING AT SINK OR LAVATORY
SCALE: NONE

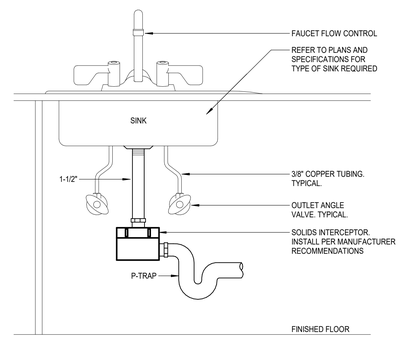


NOTE 1: PROVIDE PIPE SUPPORT WITHIN 18" OF EVERY JOINT CONNECTION.
NOTE 2: 7 FOOT MAX BETWEEN EACH SUPPORT ON ALL 4" PIPE AND SMALLER.
NOTE 3: 8 FOOT MAX BETWEEN EACH SUPPORT ON ALL 6" PIPE AND LARGER.

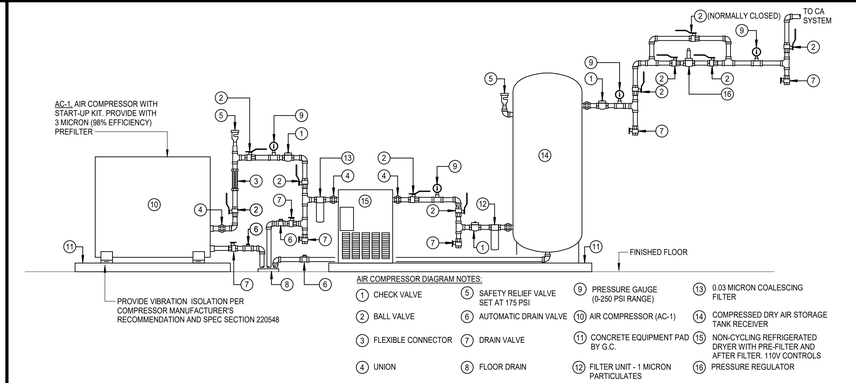
6 BRACING FOR UNDERGROUND PIPING
SCALE: NONE



7 ART SINK SOLIDS INTERCEPTOR
SCALE: NONE



8 SINK WITH SOILDS INTERCEPTOR
SCALE: NONE



AIR COMPRESSOR DIAGRAM NOTES:

1. CHECK VALVE
2. BALL VALVE
3. FLEXIBLE CONNECTOR
4. UNION
5. SAFETY RELIEF VALVE SET AT 175 PSI
6. AUTOMATIC DRAIN VALVE
7. DRAIN VALVE
8. FLOOR DRAIN
9. PRESSURE GAUGE (0-250 PSI RANGE)
10. AIR COMPRESSOR (AC-1)
11. CONCRETE EQUIPMENT PAD BY G.C.
12. FILTER UNIT - 1 MICRON PARTICULATES
13. 0.03 MICRON COALESCING FILTER
14. COMPRESSED DRY AIR STORAGE TANK RECEIVER
15. NON-CYCLING REFRIGERATED DRYER WITH PRE-FILTER AND AFTER FILTER. 110V CONTROLS
16. PRESSURE REGULATOR

9 AIR COMPRESSOR PIPING DETAIL
SCALE: NONE

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Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
PLUMBING DETAILS

SHEET NO.
P302

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION
HR-1	DESCRIPTION: MEDIUM DUTY SPRING RETRACTABLE HOSE REEL, STEEL GUIDE ARM AND BASE, POWDER COATED COMPONENTS, 50 FT HOSE. REELCRAFT RT650-OLP. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS.
DRAINAGE FIXTURE (CO, FD, FS, HD, TD)	
3"FD-1	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE 1100-MR6. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
3"FD-2	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 9" DIAMETER STRAINER. WADE 1100-FC.-TSD TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.
3"FD-3	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, 8" DIAMETER STAINLESS STEEL STRAINER, 6" DEEP SUMP, A.R.E. INTERIOR, SEDIMENT BUCKET. WADE 9010-27-SS. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL / KITCHEN CONSULTANT DRAWINGS.
3"FD-4	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY WITH A.R.E., ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET, 6" DIAMETER STAINLESS STEEL FUNNEL ATTACHMENT. WADE 1100-MR6-EF6-SS. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL / KITCHEN CONSULTANT DRAWINGS.
4"FS-1	DESCRIPTION: A.R.E. COATED CAST IRON BODY 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, BOTTOM OUTLET, LOOSE SET CAST IRON SECONDARY STRAINER, CLAMPING DEVICE, AND HALF TOP GRATE. WADE 9140-8-15-26-64. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.
4"FS-2	DESCRIPTION: CAST IRON 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, A.R.E. INTERIOR, ALUMINUM DOME BOTTOM STRAINER, STAINLESS STEEL TOP, AND CLAMPING DEVICE. WADE 9140-15-27-26-SS. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL / KITCHEN CONSULTANT DRAWINGS.
DN-1	DESCRIPTION: OVERFLOW DOWNSPOUT NOZZLE. CAST BRONZE WITH THREADED OR NO HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL. INSTALL AT 12" ABOVE FINISHED SLAB OR AS DIRECTED BY ARCHITECT. WADE 3941-VP. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
ECO	DESCRIPTION: EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH ADJUSTABLE TOP ASSEMBLY WITH GASKET SEAL, AND ROUND SCORIATED VANDAL RESISTANT DUCTILE IRON TRACTOR TYPE COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"X18"X12" CONCRETE PAD. WADE 6000-Z.
FCO	DESCRIPTION: FLOOR CLEANOUT, CAST IRON BODY AND ADJUSTABLE TOP ASSEMBLY WITH GASKET SEAL, AND ROUND SCORIATED STAINLESS STEEL COVER. WADE 6000-153. FOR CARPETED FLOORS PROVIDE WADE 6000-CM.
RD-1	DESCRIPTION: ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE 3000-46-52-53. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
RD-2	DESCRIPTION: OVERFLOW ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, 2" HIGH WATER DAM, BEARING PAN, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE 3000-D-46-52-53. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
WCO	DESCRIPTION: WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH DUCTILE IRON COMBINED COVER/PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. MIFAB C1450 WITH C1400-RD6. PROVIDE MIFAB C1460 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.
DRINKING FOUNTAIN (EDF)	
EDF-1	DESCRIPTION: WALL HUNG, BARRIER FREE, BI-LEVEL ELECTRIC DRINK FOUNTAIN WITH ELECTRONIC BOTTLE FILLER SENSOR AND SHIELDED VANDEL-RESISTANT BUBBLER. 8 GPH OF 50 DEGREE WATER AT 90 DEGREE AMBIENT AND 80 DEGREE INLET WATER. ELKAY LZSTL8WSLP. PROVDE CANE TOUCH SKIRT TO COMPLY WITH ADA GUIDELINES AND ELKAY 51299C FILTER.. P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. MIFAB MC-33. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
EDF-2	DESCRIPTION: WALL HUNG, BARRIER FREE, BI-LEVEL ELECTRIC DRINK FOUNTAIN FLEXI-GUARD SAFETY BUBBLER. 8 GPH OF 50 DEGREE WATER AT 90 DEGREE AMBIENT AND 80 DEGREE INLET WATER. ELKAY LZSTL8LC. PROVDE CANE TOUCH SKIRT TO COMPLY WITH ADA GUIDELINES AND ELKAY 51299C FILTER. P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. MIFAB MC-33. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
EMERGENCY EYE WASH (EEW)	
EEW-1	DESCRIPTION: BARRIER-FREE WITH RECESSED EYE/FACE WASH AND SHOWER WITH DRAIN, STAINLESS STELL RECESSED CABINET AND NTEGRATED FIRE EXTINGUISHER HOUSING. WATER SAVER MODEL GSC2650A. MIXING VALVE: THERMOSTATIC MIXING VALVE 1"NPT INLETS AND 1-1/4"NPT OUTLET. WATER SAVER TM6040. PROVIDE WITH ACCESS PANEL. ROUGH-IN: 2" DRAIN, 1-1/4" COLD WATER. COORDINATE FINAL LOCATION / HEIGHT WITH ARCHITECTURAL DRAWINGS.
EEW-2	DESCRIPTION: ADA COMPLIANT, SINK MOUNT EYE/FACE WASH, 4.2 GPM FLOW CONTROL WITH PULL-DOWN ACTIVATION. HAWS MODEL 7610. ROUGH-IN: 1/2" COLD WATER. COORDINATE FINAL LOCATION / HEIGHT WITH ARCHITECTURAL DRAWINGS.
EEW-3	DESCRIPTION: DECK MOUNT EYE/FACE WASH, 8' SWIVEL HOSE, VACUUM BREAKER HAWS SP212. HAWS MODEL 8904. ROUGH-IN: 1/2" COLD WATER. COORDINATE FINAL LOCATION / HEIGHT WITH ARCHITECTURAL DRAWINGS.
HYDRANTS (HB, RH, WH)	
RH-1	DESCRIPTION: FREEZELESS ROOF HYDRANT, NO DRAIN REQUIRED, BACKFLOW PREVENTER, LIFT HANDLE AND AIR VENT. WOODFORD SRH-MS ROUGH-IN: 3/4"CW
LAVATORY (L)	
L-1	DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 18-1/2"X 17" BOWL WITH REAR OVERFLOW, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.027. FAUCET:CHROME PLATED BRASS DECK MOUNTED LAVATORY FAUCET WITH 4" SPOUT AND 2-3/8" LEVER HANDLES ON 4" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, VANDAL RESISTANT 0.5 GPM. CHICAGO MODEL 802-VE2805ABCP STRAINER: 1-1/4" 17 GAUGE OFFSET WHEELCHAIR STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE OFFSET TAILPIECE. MCGUIRE 155WC. GRAVITY FED TRAP PRIMER TAILPIECE, 1/2" NOMINAL BRANCH CONNECTION. SIOUX CHIEF" 213-092. P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE W520-M36. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
MOP SINK (MS)	
MS-1	DESCRIPTION: MOP SINK BASIN, 32" X 32" X 12" HIGH CORNER TYPE, PRECAST TERRAZZO WITH 6" DROPPED FRONT, STAINLESS STEEL THRESHOLD CAP, AND DOUBLE STAINLESS STEEL WALL GUARDS.STERN-WILLIAMS "CORLOW" SBC-1725. FAUCET:CHROME PLATED BRASS WALL MOUNTED FITTING WITH CHECK IN STOPS, ADJUSTABLE SUPPLY ARMS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 2-1/2" INDEXED LEVER HANDLES ON 8" CENTERS. QUARTER TURN CARTRIDGES, 3/4" MALE HOSE THREAD OUTLET. CHICAGO 445-897-CP. ROUGH-IN: 3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.
REFRIGERATED VALVE BOX (RVB)	
RVB-1	DESCRIPTION: RECESSED VALVE BOX, 7" X 7", 18 GAUGE STEEL WITH WHITE POWDER COAT FINISH, 1/2" THREADED CONNECTION DOMESTIC VALVE. PROVIDE FILTER WHEN MAKING FINAL CONNECTION. GUY GRAY BIM-875 WITH AQUA-PURE AP717 FILTER. ROUGH-IN: 1/2" COLD WATER

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION
SHOWER (SH)	
SH-1	DESCRIPTION: MOLDED, FOUR PIECE, BARRIER FREE SHOWE MODULE, SUBWAY TILE SIMULATED WALL FINISH, BESTBATH MODEL 4LBS3636B5T CONTROLS: COMMERCIAL SERIES, CHROME PLATED METAL 3-FUNCTION TRANSFER VALVE PRESSURE BALANCING TYPE SHOWER MIXING VALVE WITH LEVER HANDLE, ADJUSTABLE TEMPERATURE TO LIMIT HAND TURN, 2.5 GPM SHOWER HEAD. HAND-HELD SHOWER WITH NON-POSITIVE PAUSE AND 69" FLEXIBLE STAINLESS STEEL CLAD HOSE, VACUUM BREAKER, MOUNTING BRACKET AND 30" SLIDE BAR. MOEN 8342. DRAIN: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 5" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE 1100-MR5. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS AND FOR LOCATION/CONFIGURATION OF CONTROLS, ACCESSORIES, ETC. FINAL INSTALLATION TO BE A.D.A. COMPLIANT.
SINK (HS, SK)	
SK-1	DESCRIPTION: SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 302 STAINLESS STEEL, 22" X 19.5" X 5.5" DEEP, SINGLE COMPARTMENT WITH FAUCET DECK. SINGLE FAUCET HOLE ON 4" CENTERS. ELKAY "LUSTERTONE" LRAD 221955. FAUCET: CHROME PLATED FAUCET WITH SPRAY HANDLE, SINGLE HANDLE WITH 9" SPOUT, VANDAL RESISTANT AERATOR WITH A MAX FLOW 1.5GPM. MOEN 8701. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
SK-2	DESCRIPTION: SINGLE BOWL LABORATORY SINK WITH DRAIN ARE TO BE SPECIFIED BY THE LAB CONSULTANT. WHERE A DECK MOUNTED EYEWASH IS SHOWN ON LAB CASEWORK PLANS, THE PLUMBING CONTRACTOR SHALL MAKE 3/4" TEPID WATER CONNECTION TO EYEWASH WITH TYPE L HARD DRAWN COPPER PIPE WITH BALL OR GLOBE VALVE STOPS PROVIDE ESCUTCHEONS AT ALL WALL OR FLOOR PIPE PENETRATIONS. LOCATE PIPE WITHIN CASEWORK UTILITY SERVICE CHASE WHERE PROVIDED. FAUCET: DECK-MOUNTED MANUAL FAUCET, SINGLE HOLE, COLOR CODED HANDLES, 9-1/2" L-TYPE SWING SPOUT, 2.2 GPM. CHICAGO 50-L9-317XKABCP. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. STRAINER: CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 20 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152. P-TRAP: 1-1/2" END OUTLET 16" CENTERS 17 GAUGE CONTINUOUS WASTE WITH CAST BRASS TEE. MCGUIRE 111C16G17. 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. ROUGH-IN: 2" ACID WASTE, 2" ACID VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-3	DESCRIPTION: THE PLUMBING CONTRACTOR SHALL CONNECT TO THE HOOD UTILITIY SERVICES PIPING. COORDINATE EXACT CONNECTION LOCATIONS AND REQUIREMENTS WITH THE LAB CASEWORK CONTRACTOR. CUP SINK AND FAUCET ARE TO BE PROVIDED BY THE LAB CASEWORK CONTRACTOR. THE PLUMBING CONTRACTOR SHALL MAKE A 1-1/2" LAB WASTE CONNECTION TO THE SINK DRAIN AND PROVIDE A 1-1/2" FULL DROP UNION POLYPROPYLENE P-TRAP. THE PLUMBING CONTRACTOR SHALL CONNECT TO FAUCET WITH 1/2" TYPE L HARD DRAWN COPPER PIPE WITH BALL OR GLOBE VALVE STOP. REFER TO LAB CASEWORK DRAWINGS. FAUCET: SPECIFIED BY LAB CONSULTANT. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. STRAINER: CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 20 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152. P-TRAP: 1-1/2" END OUTLET 16" CENTERS 17 GAUGE CONTINUOUS WASTE WITH CAST BRASS TEE. MCGUIRE 111C16G17. 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-4	DESCRIPTION: FREE STANDING, SINGLE COMPARTMENT WITH LEGS, HEAVY DUTY TUB SINK. FIAT TAT-1. FAUCET:CHROME PLATED FAUCET ON 4" CENTERS, WRIST BLADE HANDLES, SWING SPOUT, AERATOR, AND HOSE ADAPTER INCLUDED WITH SINK PACKAGE. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: INTEGRAL DRAIN INCLUDED WITH SINK PACKAGE. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-5	DESCRIPTION: SINGLE BOWL DEEP SINK WITH DRAIN ARE TO BE SPECIFIED AND INSTALLED BY THE LAB CASEWORK CONTRACTOR. WHERE A DECK MOUNTED EYEWASH IS SHOWN ON LAB CASEWORK PLANS, THE PLUMBING CONTRACTOR SHALL MAKE 3/4" TEPID WATER CONNECTION TO EYEWASH WITH TYPE L HARD DRAWN COPPER PIPE WITH BALL OR GLOBE VALVE STOPS PROVIDE ESCUTCHEONS AT ALL WALL OR FLOOR PIPE PENETRATIONS. LOCATE PIPE WITHIN CASEWORK UTILITY SERVICE CHASE WHERE PROVIDED. FAUCET:CHROME PLATED BRASS DECK MOUNTED FITTING WITH 11-3/4" HIGH SWING SPOUT AND 4" WRIST BLADE HANDLES ON 8" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, VANDAL RESISTANT 2.2 GPM AERATOR. CHICAGO MODEL 1100-HA8-317XK- E12VPJKCP. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 20 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152. INTERCEPTOR: SIDE OUTLET, FRONT ACCESS INTERCEPTOR. STRIEM MODEL SIDEKICK SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-6	DESCRIPTION: HAND SINK SPECIFIED BY FOOD SERVICE CONSULTANT (FOOD SERVICE ITEM NUMBER 6). FAUCET: SPECIFIED BY FOOD SERVICE CONSULTANT. MIXING VALVE: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 105 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2" TAILPIECE AND LOCK NUTS. MCGUIRE 151A. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: /2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
SK-7	DESCRIPTION: SINGLE BOWL LABORATORY SINK WITH DRAIN ARE TO BE SPECIFIED AND INSTALLED BY THE LAB CASEWORK CONTRACTOR. WHERE A DECK MOUNTED EYEWASH IS SHOWN ON LAB CASEWORK PLANS, THE PLUMBING CONTRACTOR SHALL MAKE 3/4" TEPID WATER CONNECTION TO EYEWASH WITH TYPE L HARD DRAWN COPPER PIPE WITH BALL OR GLOBE VALVE STOPS PROVIDE ESCUTCHEONS AT ALL WALL OR FLOOR PIPE PENETRATIONS. LOCATE PIPE WITHIN CASEWORK UTILITY SERVICE CHASE WHERE PROVIDED. FAUCET: DECK-MOUNTED MANUAL FAUCET, SINGLE HOLE, COLOR CODED HANDLES, 9-1/2" L-TYPE SWING SPOUT, 2.2 GPM. CHICAGO 50-L9-317XKABCP. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. STRAINER: CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 20 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE #152. INTERCEPTOR: SMALL CAPACITY SOLID INTERCEPTOR WITH GASKET COVER, STAINLESS STEEL LATCH, REMOVABLE SEDIMENT BUCKET, AND PERFORATED SCREEN. ZURN Z1180. INSTALL BELOW SINK IN CABINETRY. ROUGH-IN: 2" ACID WASTE, 2" ACID VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-8	DESCRIPTION: SPECIFIED BY FOOD SERVICE CONSULTANT (FOOD SERVICE ITEM NUMBER 5). FAUCET:SPECIFIED BY FOOD SERVICE CONSULTANT. STRAINER: (3) ROTARY LEVER OPERATED DRAIN FITTINGS, EACH WITH STAINLESS STEEL PERFORATED GRID STRAINER AND 2" IPS DRAIN OUTLET. (3) ADVANCE TABCO K-5. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-IN: 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. REFER TO PLUMBING PLANS FOR LOCATION AND TYPE OF INDIRECT DRAINAGE RECEPTOR, SPECIFIED SEPARATELY.

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION
SOLIDS INTERCEPTOR (INT)	
INT-1	DESCRIPTION: UNDERSINK SOLIDS INTERCEPTOR, TOP INLET, SIDE OUTLET, 23 GPM, 0.17 GAL SOLIDS CAPACITY. STRIEM MODEL SIDEKICK
INT-2	DESCRIPTION: BOTTOM ACCESS SOLIDS INTERCEPTOR, FOR OFF-FLOOR INSTALLATION WITH REMOVABLE SEDIMENT BUCKET WITH THREADED LOW INLET AND HIGH OUTLET. WADE 5730
URINAL (U)	
U-1	DESCRIPTION: URINAL, ADA COMPLIANT, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH WASHOUT FLUSH ACTION. AMERICAN STANDARD "WASHBROOK" 6590.001. FLUSH VALVE: 0.5 GALLON FLUSH CYCLE, EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL 186-0.5. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. MIFAB MC-32. ROUGH-IN: 2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
WALL HYDRANT (WH)	
WH-1	DESCRIPTION: ENCASED, WALL HYDRANT, NON FREEZE, LEAD FREE, HALF TURN CERAMIC DISC CARTRIDGE, INTEGRAL BACKFLOW PREVENTER WITH ANTI SIPHON TECHNOLOGY. INSTALL WITH BOTTOM OF HYDRANT 18" A.F.F. WADE 8701. ROUGH-IN: 3/4" COLD WATER
WATER CLOSET (WC)	
WC-1	DESCRIPTION: WATER CLOSET (A.D.A. COMPLIANT), WALL HUNG, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. AMERICAN STANDARD "AFWALL" 3351.101. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: ADA COMPLIANT, MANUAL FLUSH VALVE, 1.28 GPF, ADJUSTABLE TAILPIECE, SLOAN ROYAL 111 CARRIER: MIFAB MC-10 HORIZONTAL OR MC-12,13 VERTICAL. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-INS: 4" WASTE, 3" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
WC-2	DESCRIPTION: WALL HUNG, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. AMERICAN STANDARD "AFWALL" 3351.101. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: ADA COMPLIANT, MANUAL FLUSH VALVE, 1.28 GPF, ADJUSTABLE TAILPIECE, SLOAN ROYAL 111 CARRIER: MIFAB MC-10 HORIZONTAL OR MC-12,13 VERTICAL. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-INS: 4" WASTE, 3" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
KFS-1	DESCRIPTION: KEMPER FLOW SPLITTER UNIT WITH FEMALE THREAD AND STOP VALVES. 6510604000 - FPT 1-1/2" MAIN
ADT-1	DESCRIPTION: 14-1/4" x 6-9/32" ACID DILUTION TANK, PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. POINT OF USE TYPE ACID NEUTRALIZATION CARTRIDGE TO BE PROVIDED TO FUME HOOD, CONTRACTOR TO COORDINATE FINAL LOCATION WITH LAB CONTRACTOR CABINET DOCUMENTS. FILL INSTALLED TANKS WITH MARBLE SIZED LIMESTONE AFTER INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ZURN Z9A-PHIX OR EQUAL.
BFP-1	DESCRIPTION: LEAD FREE, FREEZE-RESISTANT PRESSURE VACUUM BREAKERS WITH INTERNAL BUILT-IN RELIEF VALVE. FEBCO LF767FR.

GENERAL NOTES

ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON (UNLESS NOTED TO BE AN ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.

INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE A.D.A. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.

INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
01/15/2026

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WDG Project No: 2024002

SHEET NAME
PLUMBING SCHEDULES

SHEET NO. P401

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
SD	STORM DRAIN PIPING (SD)
SD	STORM DRAIN PIPING BELOW GRADE (GW)
AW	ACID WASTE PIPING (AW)
AW	ACID WASTE PIPING BELOW GRADE (AW)
PD	PUMPED DISCHARGE (PD)
V	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
F	FIRE PROTECTION PIPING (F)
AIR	COMPRESSED AIR PIPING (A)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	FIRE DEPARTMENT VALVE AT RISER
	FIRE DEPARTMENT CONNECTION
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	TEST COCK
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	ROOF DRAIN
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER
A	SHOCK ABSORBER
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
	NEW CONNECTION
IE=100.00'	INVERT ELEVATION
1	DELTA CHANGE SYMBOL
P 1	4" VTR RISER FLAG

ELECTRIC WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	STORAGE CAPACITY	KW	WH GALS. PER HR. RECOVERY RATE 100°F RISE	STORED WATER TEMP	ELECTRICAL CHAR. V	P	MOCP	REMARKS
EWH-1	A.O. SMITH	DRE-52-24	50 GAL	24.0	98	140	480	1	70 A	
*	IF THE MAXIMUM FUSE SIZE OF THE EQUIPMENT PROVIDED EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COSTS RELATED TO INCREASED FUSE SIZE / WIRE SIZE.									

CIRCULATION PUMP SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM	HEAD FEET	HP MIN	ELECTRICAL CHAR. V	P	F
CP-1	GRUNDFOS	ALPHA 2	CIRCULATION PUMP	INLINE BRONZE	3	3.28	0.034	115	1	60

DOMESTIC HW EXPANSION TANK SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	MAX WORK PRESSURE (PSI)	TANK VOLUME GALLONS	MAX. ACCEPT. GALLONS	DIAMETER (INCHES)
ET-1	WATTS	DETA 5	HOT WATER EXPANSION TANK	150	3.5	2.3	10"
1	PROVIDE ASME POTABLE WATER EXPANSION TANK ON THE COLD WATER SUPPLY LINE, DOWNSTREAM OF THE CHECK VALVE.						
2	PROVIDE UNION CONNECTION.						

SUMP PUMP SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM	HEAD FEET	HORSE POWER MIN.	ELECTRICAL CHAR. V	P	F	MAX RPM
SP-1	STANCOR	SV-100	OIL MINDER	SIMPLEX	50	23'-0"	1.00 hp	115	1	60	3450

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOLS:	FIXTURE UNITS:	THREADED CONNECTION	CERTIFICATION
A	1 - 11	1/2"	ASSE 1010
B	12 - 32	3/4"	ASSE 1010
C	33 - 60	1"	ASSE 1010
D	61 - 113	1"	ASSE 1010
E	114 - 154	1"	ASSE 1010
F	155 - 330	1"	ASSE 1010

BOOSTER PUMP SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM	HEAD FEET	HP MIN	ELECTRICAL CHAR. V	P	F	MOCP	MAX RPM
BP-1	TIGERFLOW	TF-01-051	DUPLEX	BOOSTER PUMP	200	87.7	5.1	460	3	60	20 A	3600

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN ALL CLEARANCES.
2. DUPLEX PACKAGED BOOSTER SYSTEM TO INCLUDE VFD, PUMP LOGIC CONTROLLER AND STANDARD CHECK VALVES. EACH PUMP SHALL ACCOMPLISH 50% OF THE SYSTEM FLOW.
3. PROVIDE BOOSTER PUMP WITH LOW-PRESSURE CUTOFF IN COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE.
4. BOOSTER PUMP ASSEMBLY SHALL BE NSF/ANSI 61 CERTIFIED.
5. SINGLE POINT ELECTRICAL CONNECTION.

FIRE PUMP SYSTEM

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	SERVICE	TYPE	GPM	PRESSURE (PSI)	MAXIMUM RPM	MOTOR HORSEPOWER	ELECTRICAL CHAR. V	P	F	MOCP
FP-1	PENTAIR	4-383-7C	FIRE PROTECTION	INLINE	500	40	3560	20.00 hp	460	3	60	60A
JP-1	PENTAIR	PVM1-6	JOCKEY PUMP	VERTICAL CENTRIFUGAL	5	60	3500	0.75 hp	460	3	60	20A
1	PUMP IS TO HAVE A NON-OVERLOADING MOTOR.											
2	MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.											
3	FIRE PROTECTION PUMP SYSTEM SHALL BE A COMPLETE SINGLE SOURCE PACKAGE AND SHALL INCLUDE FIRE PUMP WITH MOTOR CONTROLLER, JOCKEY PUMP WITH CONTROLLER, AND ALL REQURED APPURTENANCES FOR A COMPLETE OPERATING SYSTEM.											

AIR COMPRESSOR SCHEDULE

ITEM NO.	HP	CFM DELIVERED @125 PSI	CFM DELIVERED @145 PSI	RECEIVER TANK SIZE (GALLONS). ORIENTATION	ELECTRICAL VOLTS/PH/HZ	MANUFACTURER / MODEL
AC-1	50	220	197	500 GALLONS, VERTICAL	460/3/60	INGERSOLL RAND RS37I

NOTES:
1. INCLUDE ASME AIR RECEIVER TANK, AUTOMATIC TANK DRAIN, ASME PRESSURE RELIEF VALVE, TANK MOUNTED 0-300 PSIG AIR PRESSURE GAUGE, ENCLOSED BELT GUARD. MOUNTED AND WIRED MAGNETIC STARTER, ON-OFF SWITCH, AIR COOLED AFTER-COOLER, AND SHALL BE MOUNTED ON RUBBER VIBRATION ISOLATION PADS. PROVIDE REFRIGERATED AIR DRYER (D-1) DOWNSTREAM OF AFTER-COOLER.
2. CONTRACTOR TO PROVIDE ALL REQUIRED MATERIALS AND EQUIPMENT PER MANUFACTURER SPECIFICATIONS AND ALL AUTHORITIES HAVING JURISDICTION TO INCLUDE, BUT NOT LIMITED TO:
   A. USE TEFC MOTOR
   B. INSTALL AUTOMATIC DRAIN ON BOTTOM OF RECEIVER TANK
   C. INSULATE ALL PIPES (AIR AND CONDENSATE) EXPOSED TO ELEMENTS
   D. PROVIDE HOUSEKEEPING PAD
   E. AIR FILTER
   F. ADD IN SECONDARY RECEIVER AHEAD OF AIR DRYER
3. COMPRESSED AIR SYSTEM SHALL BE PROVIDED WITH INGERSOLL RAND PRE-FILTER AND POST-FILTER INSTALL PER MANUFACTURER RECOMMENDATIONS.

REFRIGERATED DRYER SCHEDULE

ITEM NO.	TYPE	CAPACITY (CFM)	MAX. PRESSURE (PSI)	DIMENSIONS (L x W x H)	ELECTRICAL VOLTS/PH/HZ	MANUFACTURER / MODEL
D-1	NON-CYCLING	250	300	28" x 33" x 43"	460/3/60	INGERSOLL RAND D420IN

EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	INDIRECT WASTE	DIRECT DRAIN	CW	HW
5	2-COMP. SINK	1-1/2"	-	1/2"	1/2"
6	HAND SINK	1-1/2"	-	1/2"	1/2"

NOTES:
1. REFER TO FOOD SERVICE DRAWINGS FOR ROUGH-IN NOTES.
2. ALL EQUIPMENT REQUIRING WATER CONNECTIONS SHALL BE PROVIDED WITH CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS, WALL ESCUTCHEONS AND CHROME PLATED FLEXIBLE RISERS AND/OR ANY OTHER ACCESSORIES OF SIZE REQUIRED TO HAVE A PROPERLY OPERATIONAL FIXTURE.
3. ALL INDIRECT DRAINS SHALL BE PROVIDED WITH A 2" AIR GAP.

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REVISIONS

01/15/2026

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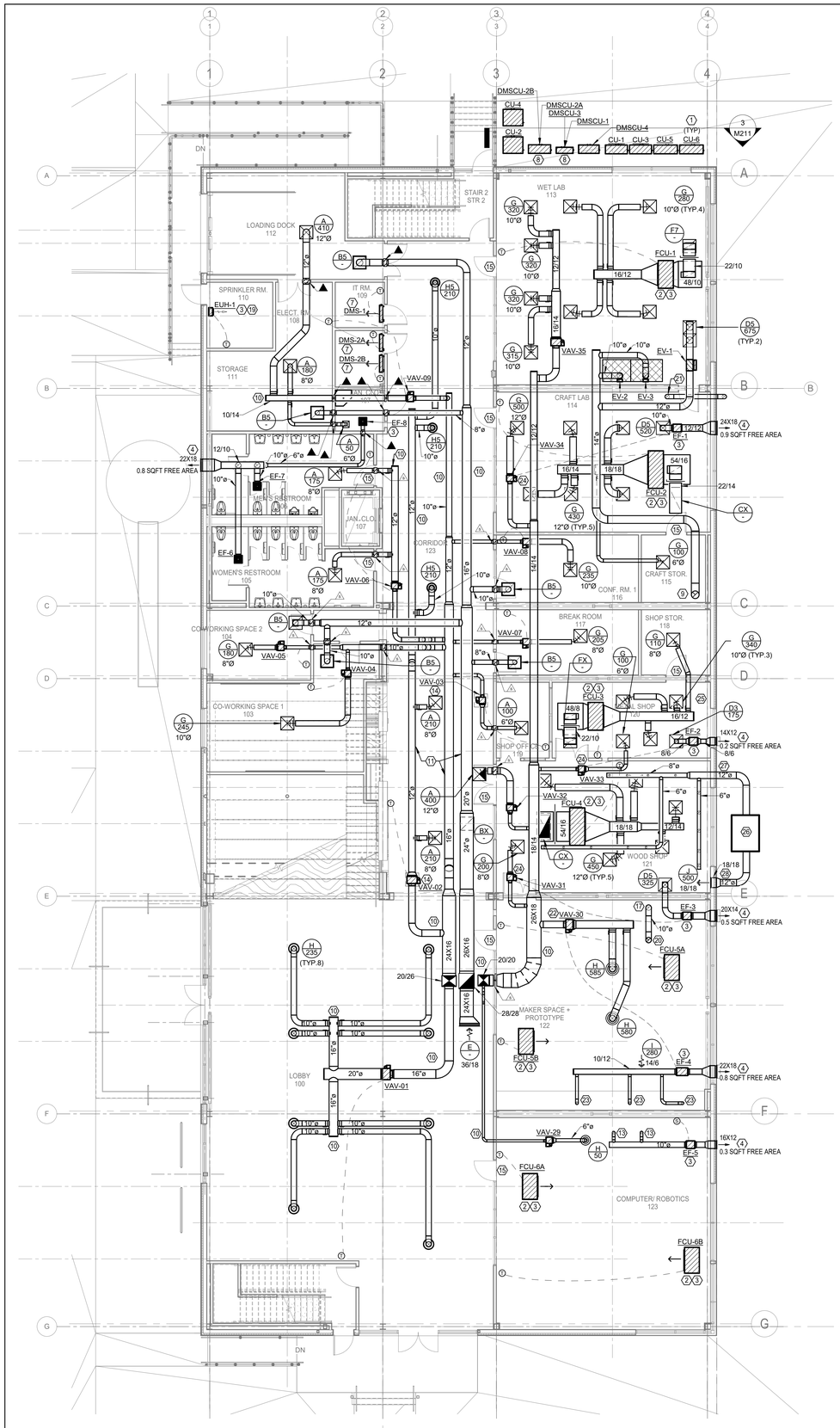
WDG Project No: 2024002

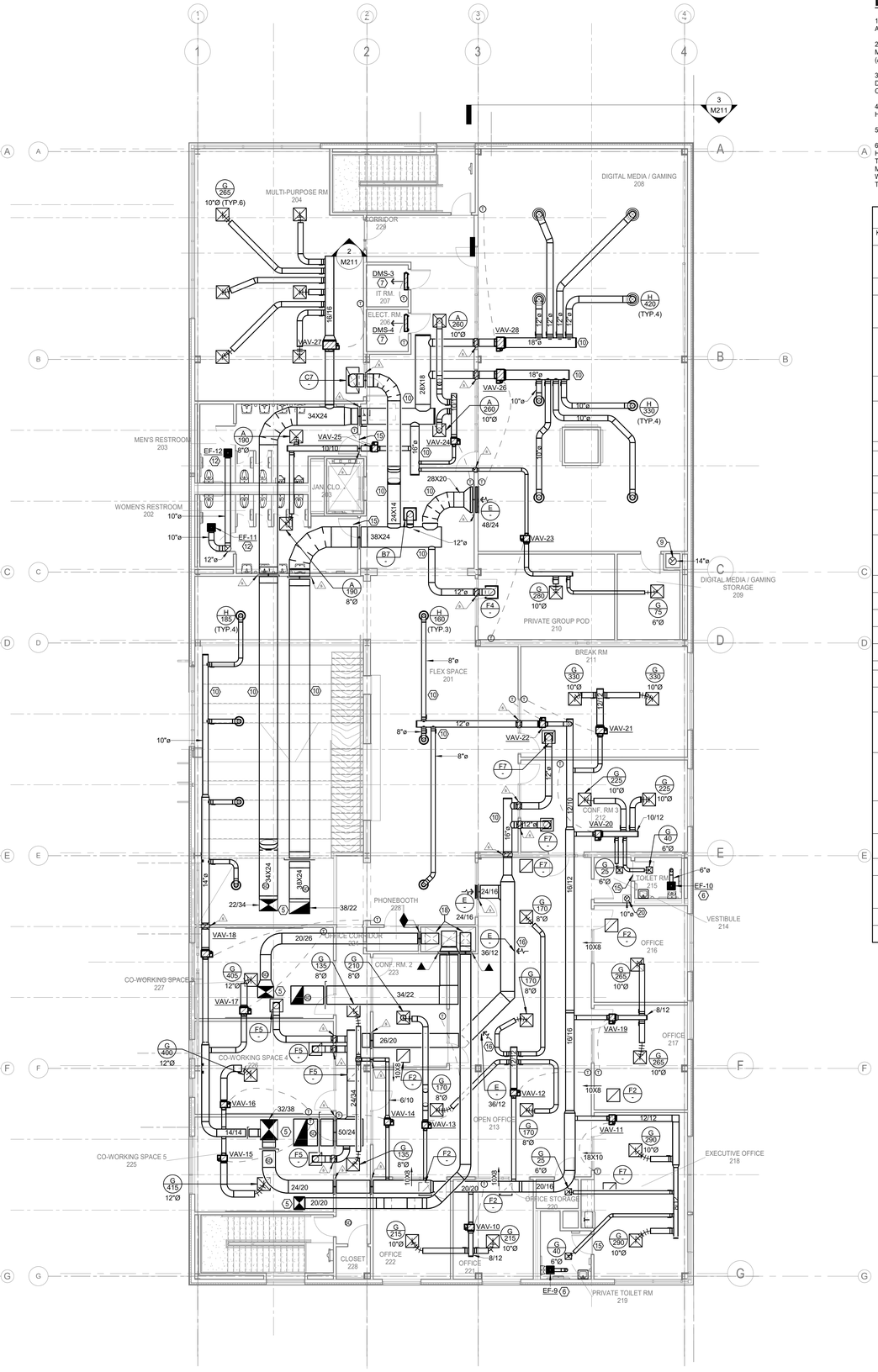
SHEET NAME

PLUMBING SCHEDULES

SHEET NO. P402



1 **FIRST FLOOR MECHANICAL PLAN**
Scale: 1/8" = 1'-0"



2 **SECOND FLOOR MECHANICAL PLAN**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.

2. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN.

3. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.

4. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.

5. ALL EXPOSED DUCT SHALL BE DOUBLE WALLED.

6. ALL VAV BOXES TO BE SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS. VERIFY SERVICE CLEARANCE WITH UNIT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.

MECHANICAL KEYED NOTES

KEYED NOTE	DESCRIPTION
1	PROVIDE 4" THICK REINFORCED CONCRETE HOUSEKEEPING PAD. SIZE PAD PER UNIT MANUFACTURER'S RECOMMENDATIONS. REFER TO STRUCTURAL DRAWINGS FOR MOUNTING DETAILS. (RE: 2/M302)
2	PROVIDE 4" DEEP AUXILIARY CONDENSATE DRAIN PAN WITH FLOAT SWITCH BENEATH UNIT. (RE: 1/M302)
3	SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.
4	ROUTE EXHAUST AIR DUCT (SIZE AS SHOWN) TO EXHAUST LOUVER WITH MINIMUM FREE AREA (SIZE AS SHOWN) SF AND INSECT SCREEN. BASIS OF DESIGN: GREENHECK EHH-501 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS. (RE: 3/M302)
5	EXTEND DUCTWORK UP THROUGH ROOF TO RTU CONNECTION. COORDINATE ROUTING OF DUCTWORK WITH TRUSS SYSTEM. (RE: 8/M302)
6	ROUTE EXHAUST DUCT (SIZE AS SHOWN) UP TO ROOF HOOD. PROVIDE GREENHECK MODEL RCC-7 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS. (RE: 8/M302)
7	MOUNT UNIT ABOVE DOOR.
8	STACK CONDENSING UNIT ON TOP OF THE LOWER UNIT. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS FOR STACKED CONDENSING UNITS.
9	ROUTE FUME HOOD EXHAUST DUCT UP THROUGH ROOF TO LEF-1. (RE: 8/M302)
10	EXPOSED DUCTWORK WITH PAINT GRIP. PAINT FLAT BLACK OR AS SPECIFIED BY ARCHITECT.
11	DUCT ABOVE FLEX SPACE 101 LOCATED NORTH OF GRID LINE E AND SOUTH OF GRID LINE C IS ABOVE CEILING AND WILL NOT NEED TO BE DOUBLE WALLED.
12	ROUTE EXHAUST DUCT (SIZE AS SHOWN) UP TO ROOF HOOD. PROVIDE GREENHECK MODEL GRSR SIZE 12 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS. (RE: 8/M302)
13	ROUTE 5" EXHAUST DUCT DOWN TO EXHAUST SNORKEL. REFER ARCHITECTURAL DRAWINGS FOR MORE DETAILS ON SNORKEL.
14	PROVIDE WITH 2'X2' ACCESS PANEL FOR VAV TERMINAL UNIT. COORDINATE COLOR SELECTION WITH ARCHITECT.
15	COORDINATE WITH ARCHITECT TO PROVIDE 1" UNDERCUT ON DOOR FOR TRANSFER AIR PATH.
16	SIDE WALL RETURN GRILLE TO BE LOCATED ON RETURN DUCT ABOVE CEILING.
17	CONNECT 10" EXHAUST DUCT TO LASER CUTTER EXHAUST SYSTEM.
18	PROVIDE A ¾" ROUND RADIUS FOR 90° TURN.
19	PROVIDE THERMOSTAT INTERLOCKED WITH UNIT HEATER SET TO 40°F.
20	ROUTE LASER CUTTER EXHAUST DUCT UP TO ROOF MOUNTED BLOWER EF-13. REFERENCE 1/M211 FOR CONTINUATION. (RE: 8/M302)
21	ROUTE KILN EXHAUST TO EXTERIOR WALL AND TERMINATE WITH DOWNWARD 90° ELBOW. REFERENCE ARCH DRAWINGS FOR EXACT KILN LOCATION. BASIS OF DESIGN L&L KILNS "VENT-SURE DOWNDRAFT VENT SYSTEM". REFER TO MANUFACTURER FOR INSTALLATION DETAILS.
22	SEQUENCE OF OPERATIONS: WHEN EF-4 IS TURNED ON SET VAV SUPPLY AIR TO 430CFM. EF-4 IS CONNECTED TO OCCUPANCY SENSOR. WHEN EF-13 IS TURNED ON SET VAV SUPPLY AIR TO 1185CFM. EF-13 WILL NEVER BE ON WHEN EF-4 IS OFF. WHEN ROOM IS UNOCCUPIED AND EF-4 IS TURNED OFF SET VAV BOX TO 360CFM.
23	ROUTE 5" EXHAUST DUCT DOWN TO EXHAUST SNORKEL. SEQUENCE SNORKELS TO ALWAYS BE ON WHEN EF-4 IS ON. REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILS ON SNORKEL.
24	SEQUENCE OF OPERATIONS: INTERLOCK VAV BOX WITH EXHAUST FAN. PROVIDE THE MINIMUM CFM WHEN EXHAUST FAN IS OFF, AND PROVIDE MAX WHEN EXHAUST FAN IS ON.
25	PROVIDE INDOOR DUST COLLECTION UNIT FOR METAL SHOP. BASIS OF DESIGN: CAMFIL MODEL ZEPHYR III.
26	PROVIDE OUTDOOR DUST COLLECTOR WITH AIR RECIRCULATION. BASIS OF DESIGN: CAMFIL GOLD SERIES MODEL GS4. COORDINATE WITH ARCHITECT FOR COLOR SELECTION AND EXACT LOCATION. (RE: M303)
27	ROUTE EXHAUST DUST IN CEILING SPACE THROUGH EXTERIOR WALL TO OUTDOOR DUST COLLECTOR.
28	ROUTE DUST COLLECTOR SUPPLY AIR THROUGH EXTERIOR WALL PENETRATE WALL WITH BOTTOM OF DUCT AT 8'-3" AFF.

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REVISIONS

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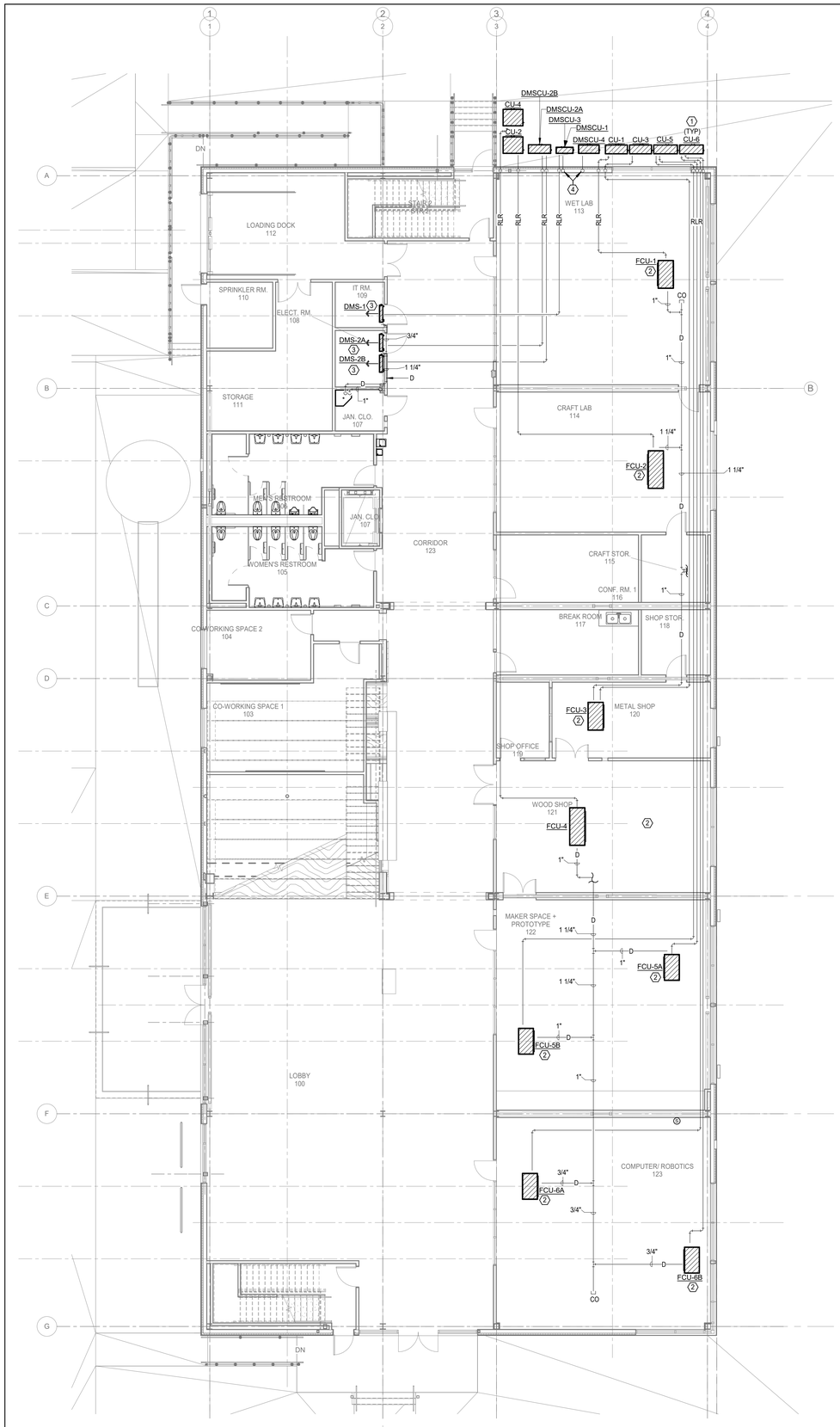
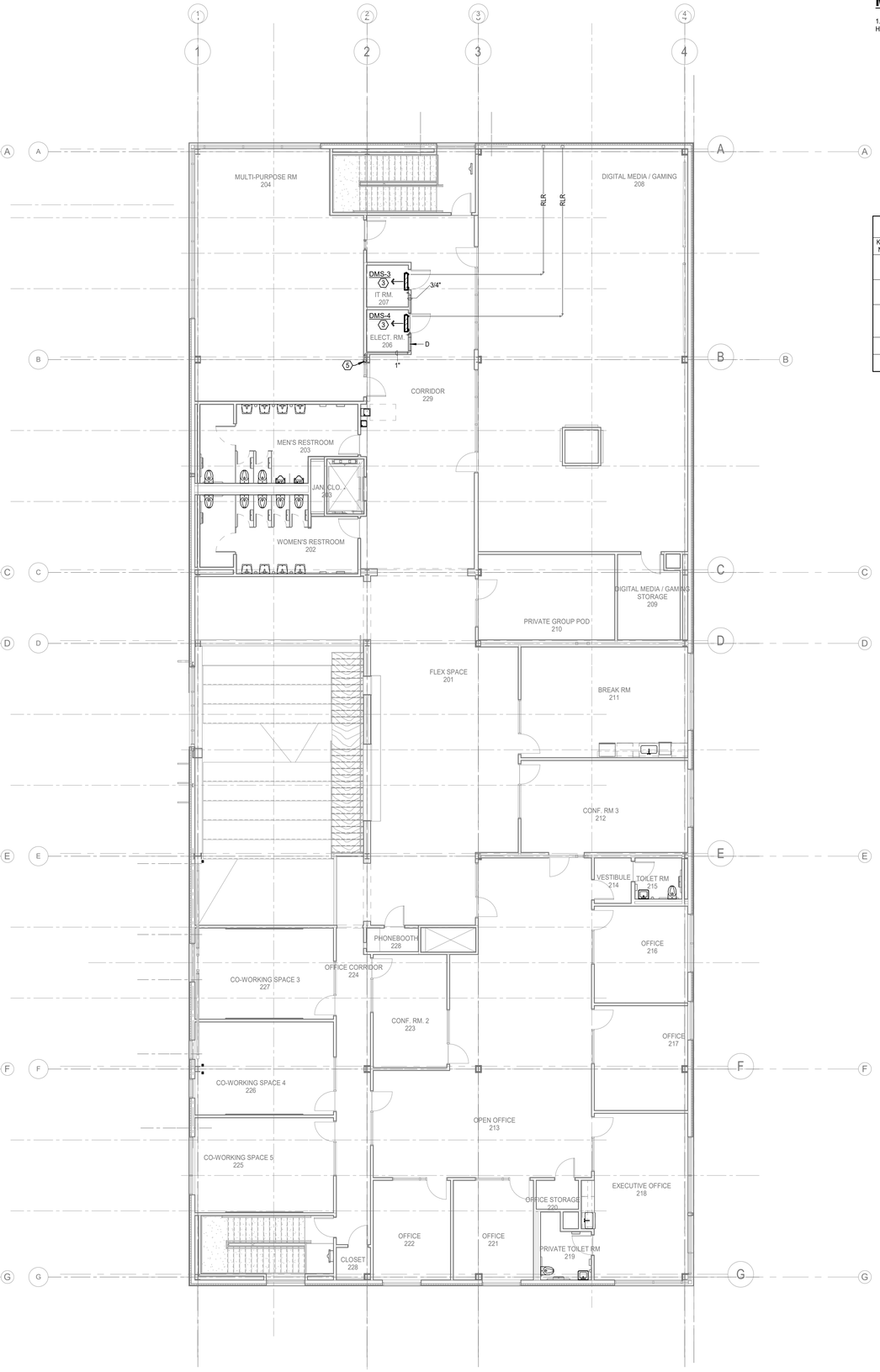
WDG Project No: 2024002

SHEET NAME
MECHANICAL FLOOR PLANS

SHEET NO.
M201



N 1 **FIRST FLOOR MECHANICAL PIPING PLAN**
Scale: 1/8" = 1'-0"



N 2 **SECOND FLOOR MECHANICAL PIPING PLAN**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.

MECHANICAL KEYED NOTES

KEYED NOTE	DESCRIPTION
1	ROUTE REFRIGERANT LINES UP INSIDE EXTERIOR WALL. PENETRATE WALL AT 12" AFF. FIELD ROUTE TO RESPECTIVE INDOOR UNIT. (RE: 1/M/302)
2	ROUTE (SIZE AS SHOWN) INSULATED CONDENSATE DRAIN TO HUB DRAIN AND TERMINATE WITH AIR GAP. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION HUB DRAIN. (RE: 6/M302)
3	ROUTE (SIZE AS SHOWN) INSULATED CONDENSATE DRAIN TO MOP SINK IN 107 JANITOR CLOSET. TERMINATE WITH AIR GAP MINIMUM 1" ABOVE FLOOD LEVEL RIM. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION. (RE: 6/M302)
4	ROUTE REFRIGERANT LINES UP INSIDE EXTERIOR WALL TO 2ND FLOOR. REFERENCE 2/M202 FOR CONTINUATION.
5	ROUTE CONDENSATE DRAIN PIPE DOWN TO 1ST FLOOR. REFER TO SHEET 1/M201 FOR CONTINUATION.

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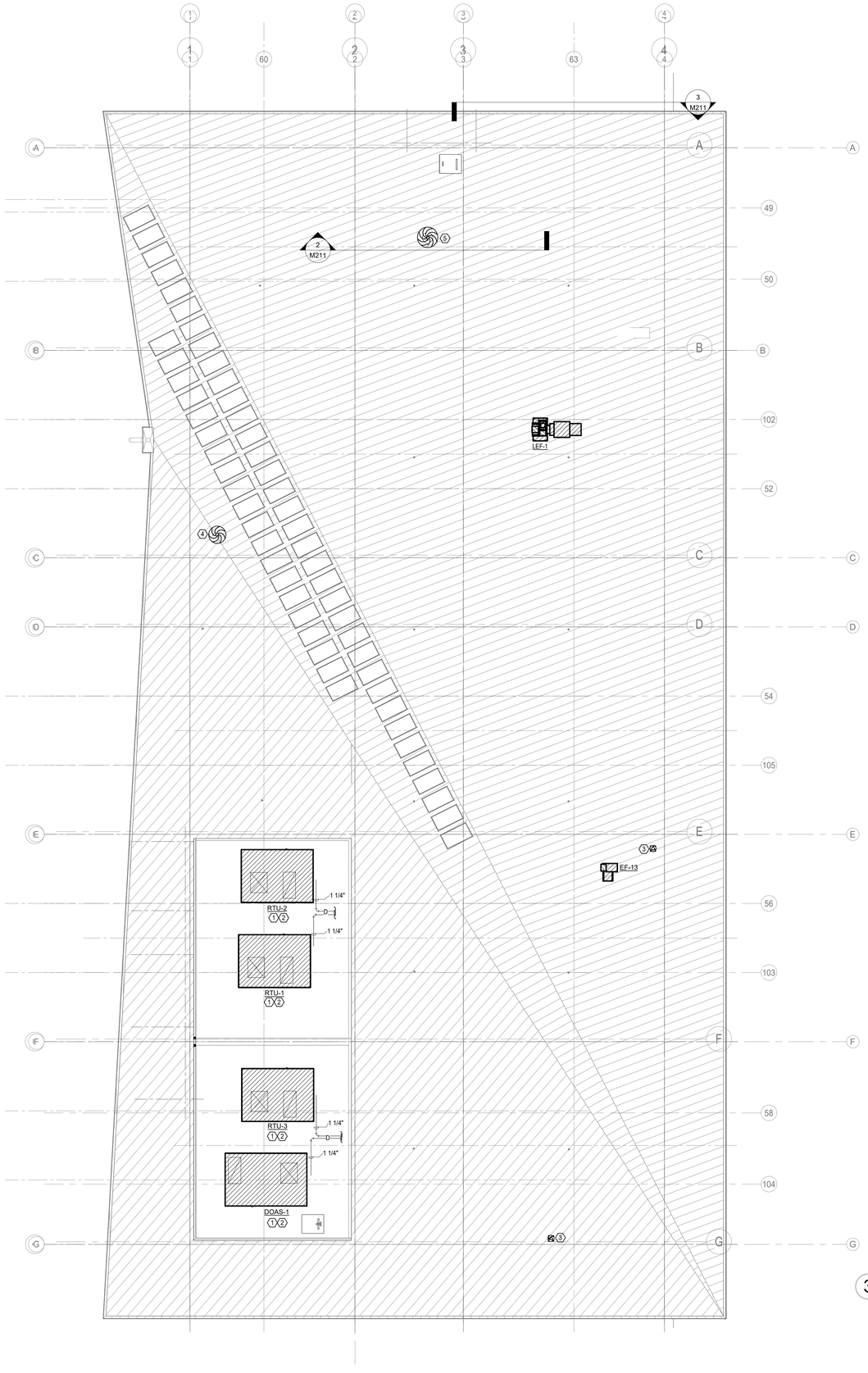
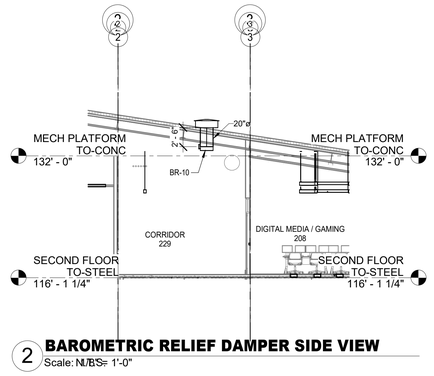
WDG Project No: 2024002

SHEET NAME
MECHANICAL FLOOR PIPING PLANS

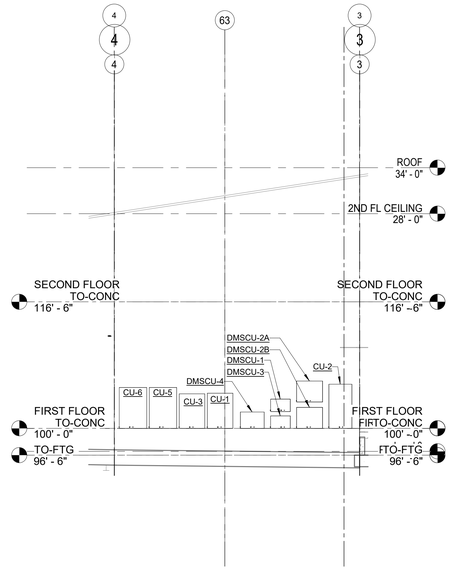
SHEET NO. M202



1 **MECHANICAL ROOF PLAN**
Scale: 1/8" = 1'-0"



2 **BAROMETRIC RELIEF DAMPER SIDE VIEW**
Scale: NTS 1'-0"



3 **CONDENSING UNIT LAYOUT SIDE VIEW**
Scale: NTS 1'-0"

MECHANICAL KEYED NOTES

KEYED NOTE	DESCRIPTION
1	COORDINATE SERVICE CLEARANCE FOR FILTER, COIL, AND FAN REMOVAL, WITH MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. ENSURE SUFFICIENT CLEARANCE IS PROVIDED FOR SERVICE.
2	ROUTE FULL SIZED INSULATED CONDENSATE DRAIN WITH AIR GAP TO ROOF DRAINS. COORDINATE WITH ARCH PLANS FOR EXACT LOCATION.
3	EXHAUST DUCT UP TO ROOF HOOD. PROVIDE GREENHECK MODEL RCC-7 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.
4	EXHAUST DUCT UP TO ROOF HOOD. PROVIDE GREENHECK MODEL GRSR SIZE 12 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.
5	PROVIDE ROOF RELIEF VENTILATOR. BASIS OF DESIGN GREENHECK GRSR SIZE 20 WITH BIRD SCREEN AND 2'-6" OF DUCT WITH AUTOMATIC RELIEF DAMPER GREENHECK BR-10 OR APPROVED EQUAL FOR BUILDING PRESSURIZATION CONTROL. REFERENCE 2/M211 FOR ELEVATION VIEW.

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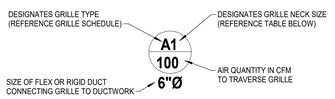
SHEET NAME
MECHANICAL ROOF PLAN

SHEET NO.
M211

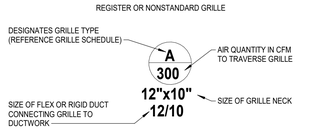
GRILLE SIZING SCHEDULE

STANDARD GRILLE



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

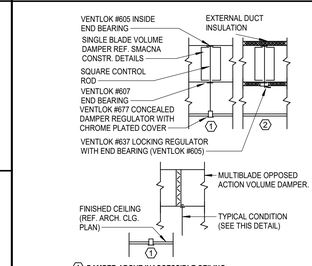
REGISTER OR NONSTANDARD GRILLE



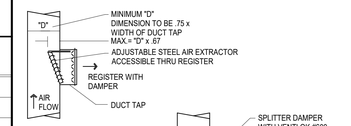
ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

DUCTWORK CONSTRUCTION DETAILS

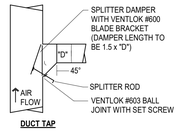


1. DAMPER ABOVE INACCESSIBLE CEILING
2. DAMPER ABOVE LIFT-OUT CEILING

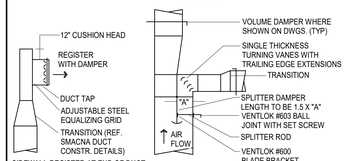


NOTES:
1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN.= 4")

EXTRACTOR SIDEWALL REGISTER



DUCT TAP

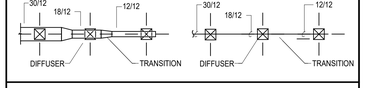


SIDEWALL REGISTER AT END OF DUCT

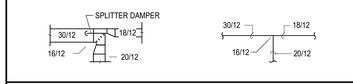
SPLITTER

DUCTWORK SYMBOLS LEGEND

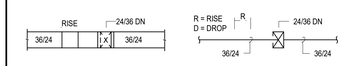
TRANSITIONS



MAIN BRANCH TAKE-OFFS

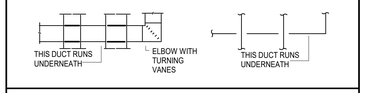


RISERS

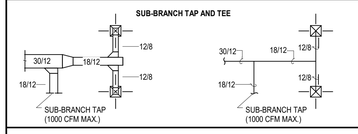


SIDEWALL REGISTERS

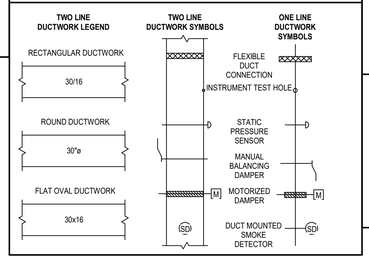
DUCT CROSSOVERS



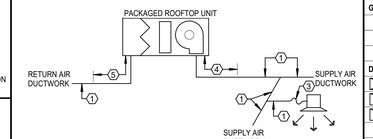
SUB-BRANCH TAP AND TEE



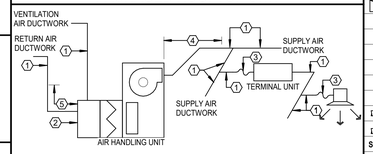
TWO LINE DUCTWORK LEGEND	TWO LINE DUCTWORK SYMBOLS	ONE LINE DUCTWORK SYMBOLS



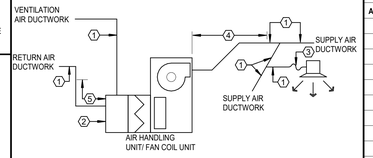
DUCT LINER AND INSULATION



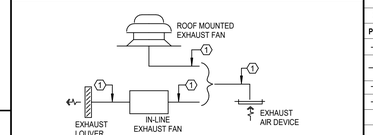
PACKAGED ROOFTOP UNIT



VARIABLE AIR VOLUME AIR HANDLING UNITS



AIR HANDLING UNITS AND FAN COIL UNITS



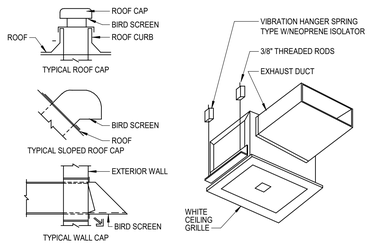
EXHAUST AIR SYSTEMS

KEYED NOTES:

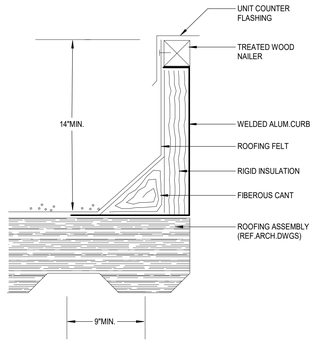
1. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
2. SHEETMETAL DUCTWORK RETURN AIR PLENUM WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
3. FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
4. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT DISCHARGE TO 10'-0" DOWNSTREAM.
5. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT INLET TO 10'-0" UPSTREAM.

SYMBOL LEGEND

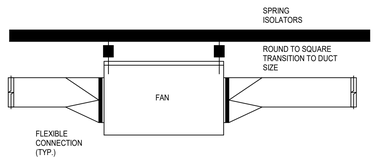
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
#	KEY NOTE TAG
#	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
SD	SMOKE DAMPER (VERTICAL)
SD	SMOKE DAMPER (HORIZONTAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
H	HUMIDISTAT
SD	SMOKE DETECTOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
D	CONDENSATE DRAIN LINE
RLR	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
	CONTINUATION
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR



5 CABINET CEILING FAN
SCALE: NONE

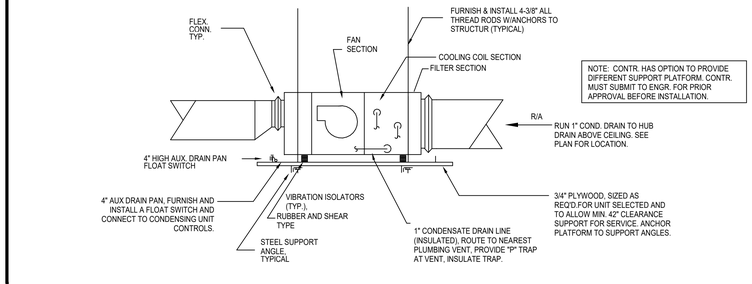


4 ROOF CURB
SCALE: NONE

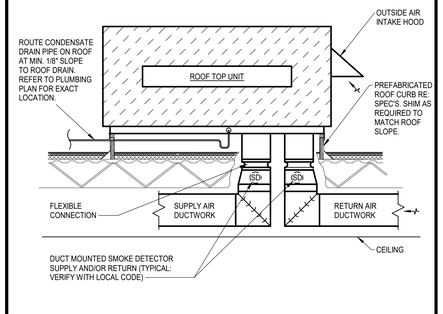


3 INLINE FAN DETAIL
SCALE: NONE

ALL AIR HANDLING UNITS PROVIDING OVER 2000 CFM AND LOCATED INSIDE ANY BUILDING WITHOUT A FIRE ALARM SYSTEM SHALL HAVE INDIVIDUAL AUDIO AND VISUAL ALARMS PLACED ON NEAREST WALL TO THE UNITS. COORDINATE WITH ARCHITECT.



2 AIR HANDLING UNIT SECTION
SCALE: NONE



1 ROOFTOP UNIT ELEVATION
SCALE: NONE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

01/15/2026

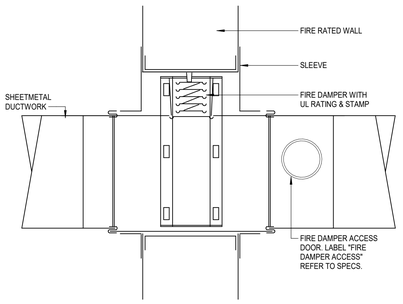
Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

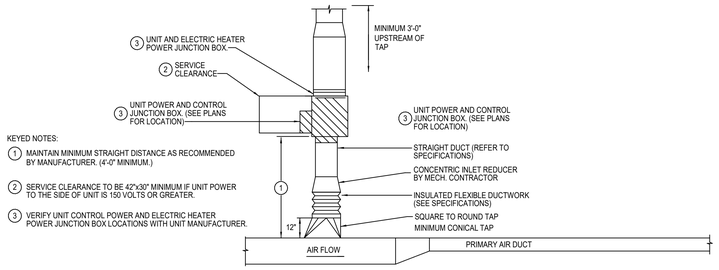
SHEET NAME

MECHANICAL DETAILS

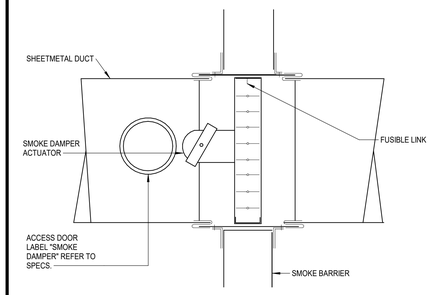
SHEET NO. M301



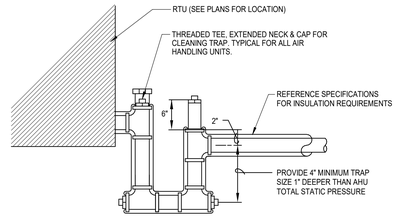
14 FIRE DAMPER
SCALE: NONE



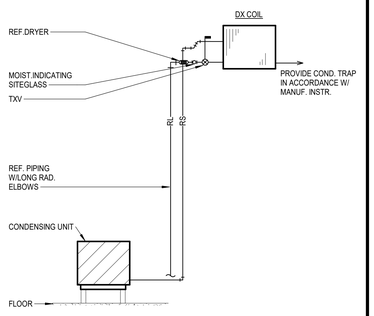
13 VARIABLE AIR VOLUME BOX
SCALE: NONE



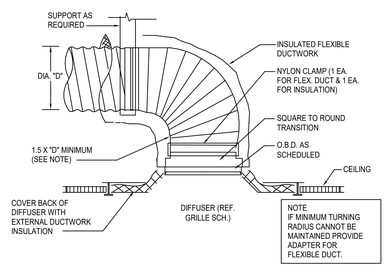
12 SMOKE DAMPER
SCALE: NONE



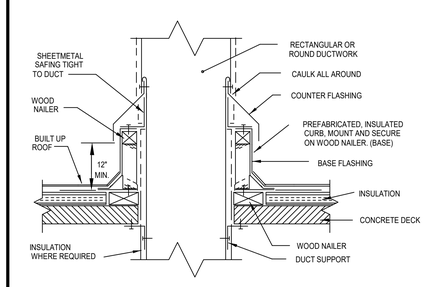
11 CONDENSATE DRAIN PIPING AT RTU
SCALE: NONE



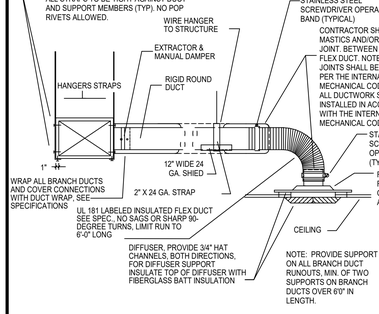
10 REFRIGERANT PIPING DIAGRAM
SCALE: NONE



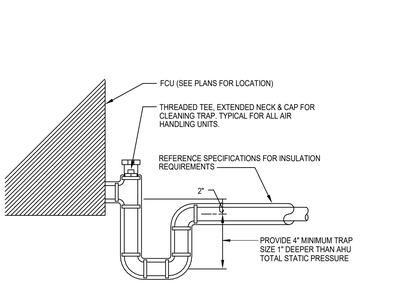
FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
9
SCALE: NONE



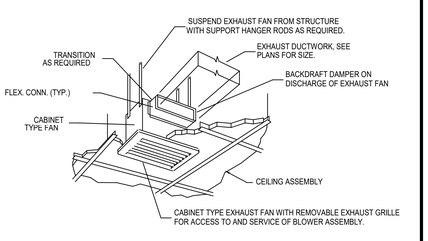
8 DUCT PENETRATION THRU ROOF
SCALE: NONE



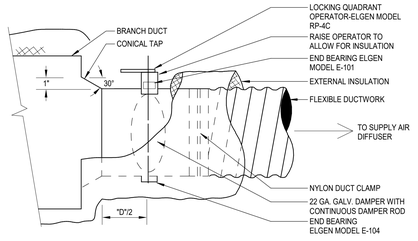
7 DIFFUSER CONNECTION
SCALE: NONE



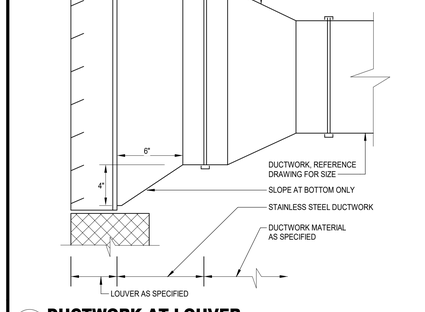
6 CONDENSATE DRAIN PIPING AT FCU
SCALE: NONE



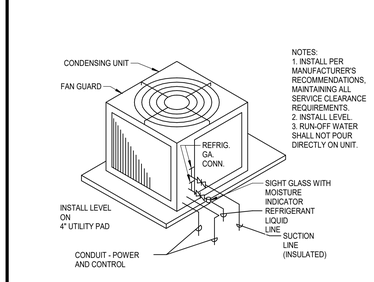
5 CEILING MOUNTED EXHAUST FAN
SCALE: NONE



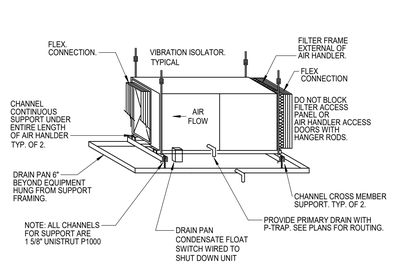
4 FLEXIBLE DUCT TAP - CONICAL
SCALE: NONE



3 DUCTWORK AT LOUVER
SCALE: NONE



2 CONDENSING UNIT ON UTILITY PAD
SCALE: NONE



1 AIR HANDLING UNIT HUNG FROM STRUCTURE
SCALE: NONE

WILLARD DESIGN GROUP
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REVISIONS

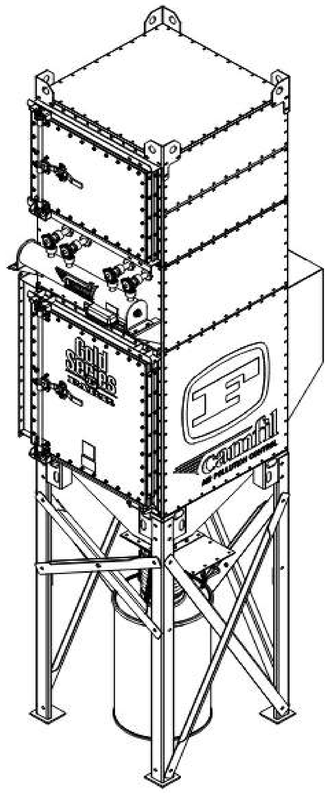
STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
01/15/2026

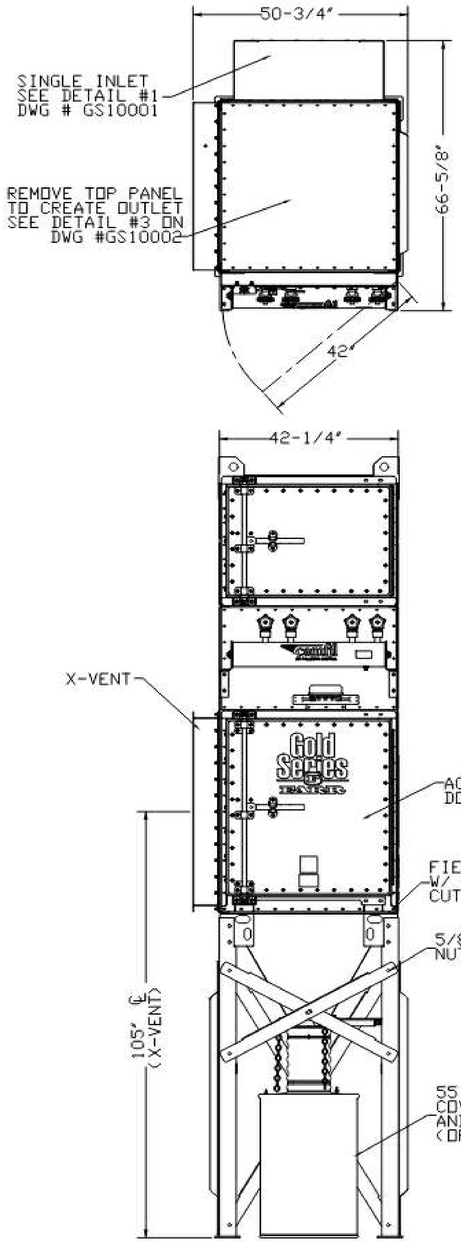
Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

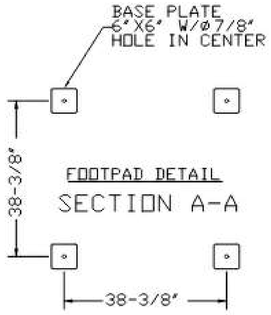
SHEET NAME
MECHANICAL DETAILS

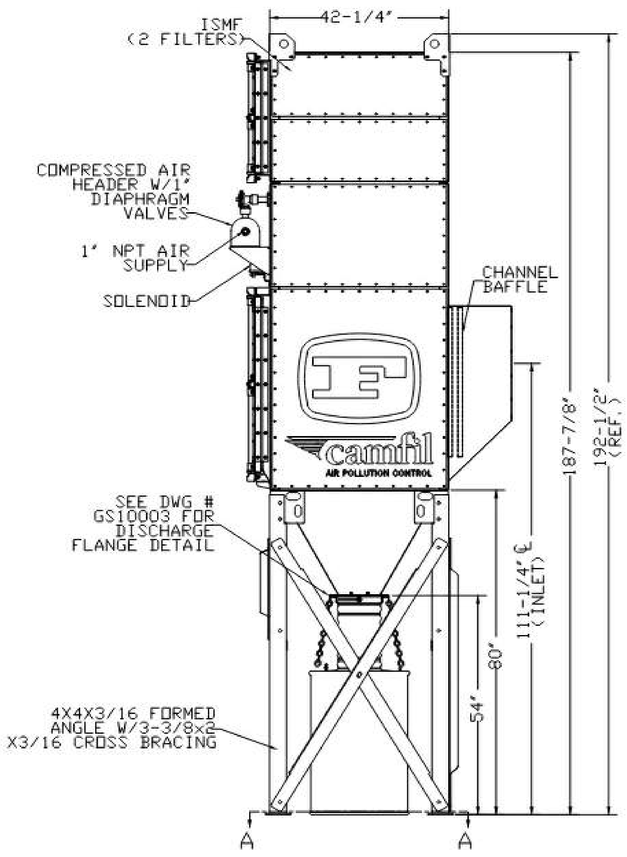
SHEET NO.
M302





FDC10 CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD





ITEM NO.	PART NUMBER	QTY.	UNITS	DESCRIPTION
1	223704M04	1	EA	GS4 MOD FOR SD #
2	224753001	1	EA	GS HPPR, 1x1, 26"H, 10"D, PTD
3	215831001	1	EA	GS4 SUPPORT, 80"H, FORMED
4	216908004	1	EA	GS4 INSTALLATION KIT
5	214238010	1	EA	DRUM KIT, 10", W/CHAIN, 55GA
6	219294001	1	EA	FIGURE EIGHT STICKER ASSY
7	208165001	40	LBS	PNT, PWDR, FARR GREEN, ALLIGATOR
8	214538010	1	EA	FDC 10 FARR CNTRL KIT 10 PIN
SALES ORDER				
2	325325001	4	EA	FLTR-GS-GR-325

SPECIFICATIONS:

1. MODULAR CONSTRUCTION FROM 10 Go & 7 Go HRCS
2. SOLID STATE TIMER CONTROLS REQUIRE 120/240 VAC SINGLE PHASE 50/60 HZ.
3. SOLENOIDS REQUIRE 120/1/60 VAC.
4. SOLENOID ENCLOSURE NEMA 4 RATED, INTEGRATED TIMER CONTROL ENCLOSURE NEMA 12 RATED, OTHER ELECTRICAL DEVICE ENCLOSURES & FARR DUST COLLECTOR TIMER ENCLOSURE NEMA 4X RATED. NEMA 4-INDOOR/OUTDOOR USE NEMA 4X-INDOOR/OUTDOORS+CORROSION PROTECTION NEMA 12-INDOOR USE, NO WATER PROTECTION (DUST TIGHT ONLY)
5. IMPORTANT NOTE: FANS TYPICALLY EXPERIENCE FOUR TO TEN TIMES THE FULL LOAD AMPS DURING START-UP. CIRCUITS AND FUSES MUST BE ADJUSTED ACCORDINGLY.
6. CLEANING SYSTEM REQUIRES 15 SCFM OF CLEAN DRY COMPRESSED AIR WITH FACTORY SETTINGS AT 90 PSI.
7. OPERATING VESSEL PRESSURE: WITH X-VENT: -3 TO 0 PSIG W/OUT X-VENT: -3 TO 1 PSIG
8. EXPLOSION VESSEL STRENGTH: 9.75 PSIG
9. WEIGHTS (COLLECTOR & FILTERS): 1951 LBS (HOPPER & SUPPORT): 453 LBS TOTAL WEIGHT: 2404 LBS
10. ITEMS 2 & 3 MAY BE SHIPPED ASSEMBLED

MODEL: GS4

APPLICATION DATA:

CFM: @" W.G.
AIR-TO-CLOTH RATIO:
DUST LOADING:
APPLICATION:
PRED:
KST:
PMAX:

SHIPPING INFO:

EQUIPMENT END USER:

CUSTOMER REP:

P.O. #:
FARR #:

**THE CUSTOMER ASSUMES THE RESPONSIBILITY FOR CONTACTING THEIR INSURANCE UNDERWRITER AND ADVISING CAMFIL/FARR IN REGARD TO SPECIFIC APPLICATION REQUIREMENTS OF EXPLOSION VENTING OR IF ADDITIONAL FIRE PROTECTION AND SAFETY EQUIPMENT MAY BE REQUIRED. THE BUYER IS ALSO CAUTIONED TO ADHERE TO PRESCRIBED OSHA, NFPA, FEDERAL, STATE AND LOCAL CODES AND REGULATIONS APPLICABLE TO INDUSTRIAL VENTILATION SYSTEMS, WHICH CAMFIL/FARR EQUIPMENT MAY BE APPLIED ON.

*ALL DRAWINGS & DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. STANDARD FARR SALES DRAWING (NOT FOR CONSTRUCTION)

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
01/15/2026

Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
MECHANICAL DETAILS

SHEET NO.
M303

LAB EXHAUST AIR TERMINAL

MARK	MAXIMUM CFM	MINIMUM CFM	INLET DIAMETER SIZE (IN.)	REMARKS
EV-1	1355	90	12	1
EV-2	667	50	10	1
EV-3	667	50	10	1

GENERAL NOTES:
1. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 1" ESP.
2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.
3. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID MOUNTING OVER LIGHTS WHEREVER POSSIBLE.

REMARKS:
1. PROVIDE WITH BACNET INTERFACE CONTROLLER.

VARIABLE VOLUME TERMINAL BOX (ELECTRIC HEAT)

MARK	MAXIMUM CFM	MINIMUM CFM	INLET	HEATING KW	V	P	F	REMARKS
VAV-01	1,880	1,370	14	8.9	277	1	60	1
VAV-02	1,050	415	12	5.0	277	1	60	1
VAV-03	100	100	4	0.5	277	1	60	1
VAV-04	245	170	6	1.2	277	1	60	1
VAV-05	180	130	6	0.9	277	1	60	1
VAV-06	350	350	6	1.7	277	1	60	1
VAV-07	205	100	6	1.0	277	1	60	1
VAV-08	235	155	6	1.1	277	1	60	1
VAV-09	640	640	6	3.0	277	1	60	1
VAV-10	430	260	8	2.0	277	1	60	1
VAV-11	650	180	8	3.1	277	1	60	1
VAV-12	680	185	8	3.2	277	1	60	1
VAV-13	210	100	6	1.0	277	1	60	1
VAV-14	270	100	6	1.3	277	1	60	1
VAV-15	415	180	8	2.0	277	1	60	1
VAV-16	400	100	6	1.9	277	1	60	1
VAV-17	405	180	8	1.9	277	1	60	1
VAV-18	735	260	10	3.5	277	1	60	1
VAV-19	530	180	8	2.5	277	1	60	1
VAV-20	515	180	8	2.4	277	1	60	1
VAV-21	660	180	8	3.1	277	1	60	1
VAV-22	480	180	8	2.3	277	1	60	1
VAV-23	355	210	6	1.7	277	1	60	1
VAV-24	520	240	8	2.5	277	1	60	1
VAV-25	380	380	6	1.8	277	1	60	1
VAV-26	1,320	360	12	6.3	277	1	60	1
VAV-27	1,590	1,020	14	7.5	277	1	60	1
VAV-28	1,680	480	14	8.0	277	1	60	1
VAV-29	50	50	4	0	277	1	60	1
VAV-30	1,165	360	12	0	277	1	60	1
VAV-31	200	100	6	0	277	1	60	1
VAV-32	400	180	8	0	277	1	60	1
VAV-33	100	75	4	0	277	1	60	1
VAV-34	500	180	8	0	277	1	60	1
VAV-35	1,275	360	12	0	277	1	60	1

GENERAL NOTES:
1. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 0.2" W.G.
2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.
3. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. REFER TO MANUFACTURER FOR MORE DETAILS.
4. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID MOUNTING OVER LIGHTS WHEREVER POSSIBLE.

REMARKS:
1. PROVIDE WITH BACNET INTERFACE CONTROLLER.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	AT TAP	ALUMINUM	BY ARCH	TITUS	OMNI	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE.
B	RETURN AIR	DIFFUSER	-	ALUMINUM	BY ARCH	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24".
C	RETURN AIR	DIFFUSER	-	ALUMINUM	BY ARCH	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X48" FACE.
D	EXHAUST AIR	DIFFUSER	-	ALUMINUM	BY ARCH	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" OR 12"X12" FACE. PERFORATED FACE.
E	RETURN AIR	GRILLE	-	ALUMINUM	BY ARCH	TITUS	350FL	35 DGREE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
F	RETURN AIR	DIFFUSER	-	ALUMINUM	BY ARCH	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" FACE. PERFORATED.
G	SUPPLY AIR	DIFFUSER	AT TAP	ALUMINUM	BY ARCH	TITUS	OMNI	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" OR 12"X12" FACE.
H	SUPPLY AIR	DIFFUSER	AT TAP	ALUMINUM	BY ARCH	TITUS	R-OMNI	EXPOSED ROUND FRAME STYLE WITH ADJUSTABLE POSITION DAMPER.
I	EXHAUST AIR	GRILLE	-	ALUMINUM	BY ARCH	TITUS	350FL	35 DEGREE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
J	SUPPLY AIR	GRILLE	-	ALUMINUM	BY ARCH	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)

GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

DAMPER

MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

NOTES:
N/A - NOT APPLICABLE

DUCTLESS MINI-SPLIT - OUTDOOR UNIT COOLING ONLY

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER2/ SEER2	RELATED UNIT MARK	ELECTRICAL: CURRENT CHARAC. V	P	F	MCA	MOCP	BASIS OF DESIGN: MANUFACTURER	MODEL	REMARKS
DMSCU-1	12,000	93.5	12 / 18	DMS-1	208	1	60	10.0	15	LG	KUSAE	1,2,3,4
DMSCU-2A	30,000	93.5	11.3 / 21	DMS-2A	208	1	60	23.0	30	LG	KUSAP	1,2,3,4
DMSCU-2B	30,000	93.5	11.3 / 21	DMS-2B	208	1	60	23.0	30	LG	KUSAP	1,2,3,4
DMSCU-3	12,000	93.5	12 / 18	DMS-3	208	1	60	10.0	15	LG	KUSAE	1,2,3,4
DMSCU-4	18,000	93.5	12 / 18	DMS-4	208	1	60	15.0	20	LG	KUSAE	1,2,3,4

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT KIT.
2. PROVIDE WITH HAIL GUARD.
3. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE WITH BACNET INTERFACE CONTROL

DUCTLESS MINI-SPLIT - INDOOR UNIT COOLING ONLY

MARK	FAN: SUPPLY AIR CFM	HORSE POWER	CURRENT CHARAC. V	P	F	AIR TEMPERATURE (°F): ENTERING DRY BULB	ENTERING WET BULB	COOLING: NOM. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER2/ SEER2	REMARKS
DMS-1	400	0.1	208	1	60	80.0	67.0	12,000	9,000	12 / 18	1,2,3,4,5,6,7
DMS-2A	1,000	0.1	208	1	60	80.0	67.0	30,000	20,000	11.3 / 21.0	1,2,3,4,5,6,7
DMS-2B	1,000	0.1	208	1	60	80.0	67.0	30,000	20,000	11.3 / 21.0	1,2,3,4,5,6,7
DMS-3	400	0.1	208	1	60	80.0	67.0	12,000	9,000	12 / 18	1,2,3,4,5,6,7
DMS-4	600	0.1	208	1	60	80.0	67.0	18,000	13,000	12 / 18	1,2,3,4,5,6,7

GENERAL NOTES:
1. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. PROVIDE WITH 7 DAY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. BASIS OF DESIGN: DAIKIN FTKB.
6. PROVIDE WITH CONDENSATE PUMP.
7. PROVIDE WITH BACNET INTERFACE CONTROLLER.

DX FAN/COIL UNIT

MARK	FAN: SUPPLY AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHAR V	P	F	COOLING: ENTERING DRY BULB (°F)	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	NOM. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER2/ SEER2/IEER2	HEATING: ENTERING AIR TEMP.(°F)	LEAVING AIR TEMP.(°F)	NOM. TOTAL CAPACITY (BTUH)	CURRENT CHAR V	P	F	BASIS OF DESIGN: MANUFACTURER	MODEL	ELECTRICAL: MCA	MOCP	REMARKS
FCU-1	1,130	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	36,000	23,400	-/14.3/-	70	90	40,000	208	1	60	LG	KNUJB	3	15	1,2,3,4,5,6,7,8
FCU-2	2,250	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	76,000	41,200	10.5/-/13.4	70	90	80,000	208	1	60	LG	ZRNU	3	15	1,2,3,4,5,6,7,8
FCU-3	1,130	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	36,000	21,170	-/14.3/-	70	90	40,000	208	1	60	LG	KNUJB	3	15	1,2,3,4,5,6,7,8
FCU-4	2,250	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	76,000	41,100	10.5/-/13.4	70	90	80,000	208	1	60	LG	ZRNU	3	15	1,2,3,4,5,6,7,8
FCU-5A	950	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	36,000	23,500	10.5/-/13.4	70	90	40,000	208	1	60	LG	ARNU	3	15	1,2,3,4,5,6,7,9,10
FCU-5B	495	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	24,000	14,500	10.5/-/13.4	70	90	40,000	208	1	60	LG	ARNU	3	15	1,2,3,4,5,6,7,9,10
FCU-6A	475	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	18,000	10,500	10.5/-/13.4	70	90	21,500	208	1	60	LG	ARNU	3	15	1,2,3,4,5,6,7,9,10
FCU-6B	475	0.25	0.5	208	1	60	75.0	62.5	55.0	54.5	18,000	10,500	10.5/-/13.4	70	90	21,500	208	1	60	LG	ARNU	3	15	1,2,3,4,5,6,7,9,10

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. PROVIDE WITH 7 DAY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. PROVIDE HORIZONTAL UNIT.
5. PROVIDE WITH SINGLE POINT CONNECTION.
6. PROVIDE WITH FILTER BOX.
7. PROVIDE WITH BACNET INTERFACE CONTROLLER.
8. PROVIDE CEILING CONCEALED UNIT.
9. PROVIDE CEILING SUSPENDED UNIT.
10. PROVIDE WITH CONDENSATE PUMP WITH MINIMUM 18" OF LIFT.

AIR COOLED CONDENSING UNIT

MARK	NOM. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER2/SEER2/IEER2	MINIMUM HSPF2/COP	RELATED UNIT MARK	ELECTRICAL: CURRENT CHAR. V	P	F	MCA	MOCP	BASIS OF DESIGN: MANUFACTURER	MODEL	REMARKS
CU-1	36,000	93.5	-/14.3/-	7.5/-	FCU-1	208	1	60	32	35	LG	KUSXB	1,2,3
CU-2	72,000	93.5	10.5/-/13.4	-/3.4	FCU-2	208	3	60	32	35	LG	ZRUM	1,2,3
CU-3	36,000	93.5	-/14.3/-	7.5/-	FCU-3	208	1	60	32	35	LG	KUSXB	1,2,3
CU-4	72,000	93.5	10.5/-/13.4	-/3.4	FCU-4	208	3	60	32	35	LG	ZRUM	1,2,3
CU-5	72,000	93.5	10.5/-/13.4	-/3.4	FCU-5A, 5B	208	1	60	25	40	LG	ARUN	1,2,3
CU-6	72,000	93.5	10.5/-/13.4	-/3.4	FCU-6A, 6B	208	1	60	25	40	LG	ARUN	1,2,3

GENERAL NOTES:
A. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT CONTROL DOWN TO 20°F.
2. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE WITH COIL GUARD.
4. PROVIDE WITH INVERTER TYPE COMPRESSOR
5. PROVIDE WITH BACNET INTERFACE CONTROLLER

ROOF MOUNTED DEDICATED OUTDOOR AIR UNIT - (VARIABLE AIR VOLUME)

MARK	FAN: SUPPLY AIR CFM	MIN. SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C)	HORSE POWER	CURRENT V	PH	F	COOLING: AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENS CAPACITY (BTUH)	MIN. ISMRE	HEATING: ENTERING AIR TEMP (°F)	LEAVING AIR TEMP.(°F)	KW	CURRENT V	P	F	BASIS OF DESIGN: MANUFACTURER	MODEL	ELECTRICAL: MCA	MOCP	REMARKS
DOAS-1	3,690	1,305	3,690	1.90	5.0	480	3	60	93.5	78.7	55.0	54.5	318,320	153,430	4	25.0	75	58	480	3	60	AAON	RNA	82	90	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE UNIT WITH DISCONNECT SWITCH & MOTORIZED OUTSIDE AIR DAMPER.
2. PROVIDE WITH VIBRATION ISOLATION ROOF CURB.(REFER TO SPECS). CURB SHALL BE SUFFICIENT HEIGHT TO ENSURE OUTDOOR AIR INTAKE IS MINIMUM 36" ABOVE FINISHED ROOF LEVEL.
3. PROVIDE UNIT WITH FACTORY MOUNTED GFCI RECEPTACLE FOR UNIT.
4. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
5. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL COSTS IF ALTERNATE UNIT IS PROVIDED WITH GREATER ELECTRICAL CHARACTERISTICS THAN SHOWN.
6. PROVIDE WITH HOT GAS RE-HEAT KIT DOWNSTREAM OF COOLING COIL. UNIT SHALL BE CAPABLE OF REHEATING TO NEUTRAL 75 DEG F (ADJUSTABLE) WHEN UNIT IS IN COOLING MODE.
7. MECHANICAL CONTRACTOR SHALL PROVIDE WITH SMOKE DETECTOR IN SUPPLY AND RETURN AIR DUCTWORK. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION.
8. PROVIDE WITH BOTTOM DISCHARGE UNIT.
9. PROVIDE WITH VFD.
10. PROVIDE WITH INVERTER COMPRESSOR ON LEAD CIRCUIT. UNIT SHALL BE ABLE TO PROVIDE SCHEDULED OUTSIDE AIR AT ALL TIME INCLUDING DURING PART LOADING.
11. PROVIDE WITH BACNET INTERFACE CONTROLLER
12. PROVIDE WITH LOW AMBIENT CONTROL.
13. PROVIDE WITH 36" TALL ROOF CURB.

PACKAGED ROOFTOP UNIT - (VARIABLE AIR VOLUME)

MARK	FAN: SUPPLY AIR CFM	MIN. SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC. V	P	F	COOLING: AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	AMBIENT TEMP	LEAVING DRY BULB	LEAVING WET BULB	MIN. TOTAL CAPACITY (BTU)	MIN. SENSIBLE CAPACITY (BTU)	MINIMUM EER/ IEER	NUMBER OF STAGES	BASIS OF DESIGN: MANUF.	MODEL NUMBER	ELECTRICAL: MCA	MOCP	REMARKS
RTU-1	4,885	3,430	685	2.90	7.5	480	3	60	77.5	65.4	93.5	55	54.5	164,000	118,700	11/14.2	2	AAON	RNA	45	50	ALL
RTU-2	5,845	2,690	770	2.30	7.5	480	3	60	77.4	65.0	93.5	55	54.5	200,300	146,000	11/14.2	2	AAON	RNA	49	60	ALL
RTU-3	6,370	2,265	1,040	3.10	7.5	480	3	60	77.9	65.5	93.5	55	54.5	228,000	155,000	11/14.2	2	AAON	RNA	54	70	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, AND DAMPERS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE UNIT WITH DISCONNECT SWITCH & MOTORIZED OUTSIDE AIR DAMPER.
2. PROVIDE WITH VIBRATION ISOLATION ROOF CURB.(REFER TO SPECS). CURB SHALL BE SUFFICIENT HEIGHT TO ENSURE OUTDOOR AIR INTAKE IS MINIMUM 36" ABOVE FINISHED ROOF LEVEL.
3. PROVIDE UNIT WITH FACTORY MOUNTED GFCI RECEPTACLE FOR UNIT.
4. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
5. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL COSTS IF ALTERNATE UNIT IS PROVIDED WITH GREATER ELECTRICAL CHARACTERISTICS THAN SHOWN.
6. PROVIDE WITH LOW AMBIENT CONTROL.
7. MECHANICAL CONTRACTOR SHALL PROVIDE WITH SMOKE DETECTOR IN SUPPLY DUCTWORK. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION.
8. PROVIDE WITH BOTTOM DISCHARGE UNIT.
9. PROVIDE WITH VFD.
10. PROVIDE WITH INVERTER COMPRESSOR ON LEAD CIRCUIT. UNIT SHALL BE ABLE TO PROVIDE SCHEDULED OUTSIDE AIR AT ALL TIME INCLUDING DURING PART LOADING.
11. PROVIDE WITH NEEDLEPOINT BIPOLAR IONIZATION KIT WITH UL 2998 CERTIFICATION. BASIS OF DESIGN: GPS NBPI.
12. PROVIDE WITH BACNET INTERFACE CONTROLLER.
13. PROVIDE WITH 36" TALL ROOF CURB.

FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR V	P	F	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	BASIS OF DESIGN: MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	CRAFT LAB	520	0.25	1,300	0.17	120	1	60	OCCUPANCY SENSOR WITH TIMER	INLINE	DIRECT	GREENHECK	SQ	1
EF-2	METAL SHOP	175	0.25	915	0.17	120	1	60	OCCUPANCY SENSOR WITH TIMER	INLINE	DIRECT	GREENHECK	SQ	1
EF-3	WOODWORKIN SHOP	325	0.25	1,405	0.17	120	1	60	OCCUPANCY SENSOR WITH TIMER	INLINE	DIRECT	GREENHECK	SQ	1
EF-4	MAKER SPACE	580	0.25	965	0.25	120	1	60	OCCUPANCY SENSOR WITH TIMER	INLINE	DIRECT	GREENHECK	SQ	1
EF-5	COMPUTER / ROBOTICS	200	0.25	1,335	0.17	120	1	60	SWITCH	INLINE	DIRECT	GREENHECK	SQ	1
EF-6	RESTROOM	250	0.25	1,000	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-7	RESTROOM	250	0.25	1,000	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-8	JANITOR	50	0.25	1,345	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-9	TOILET	70	0.25	1,410	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-10	TOILET	70	0.25	1,410	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-11	RESTROOM	250	0.25	1,000	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-12	RESTROOM	250	0.25	1,000	0.1	120	1	60	OCCUPANCY SENSOR WITH TIMER	CEILING	DIRECT	GREENHECK	SP	2
EF-13	ROOF	735	3.00	2,655	0.75	208	3	60	LASER CUTTER	ROOF MOUNTED	BELT	GREENHECK	USF	3
LEF-1	ROOF	1425	3.00	2,635	3	208	3	60	LAB HOOD CONTROLS	HIGH PLUME	DIRECT	GREENHECK	VK-CH	4

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH HANGING ISOLATION KIT, PRE-WIRED DISCONNECT MOTORIZED DAMPER, AND BACKDRAFT DAMPER.
2. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER, VIBRATION ISOLATION, SPEED CONTROLLER, DECORATIVE GRILLE AND INTEGRAL DISCONNECT.
3. PROVIDE WITH NEMA POWER EFFICIENT MOTOR, MOTOR W/ 40°C, MOTOR CLASS B OR GREATER, STANDARD DRIVES, NEMA 3R SWITCH, L10 STANDARD LIFE BEARINGS, PERMALOCK HOUSING, WHEEL BACKWARD INCLINED, UL LISTED POWER VENTILATORS, EXTENDED LUBE LINES, ONLET/INLET CONNECTION SLIP FIT, AND WEATHERHOOD.
4. PROVIDE WITH MIXING BOX, AND VARIABLE FREQUENCY DRIVE FACTORY INSTALLED ON FAN PLENUM, ISOLATION DAMPER, AND BACNET CONTROLLER.

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

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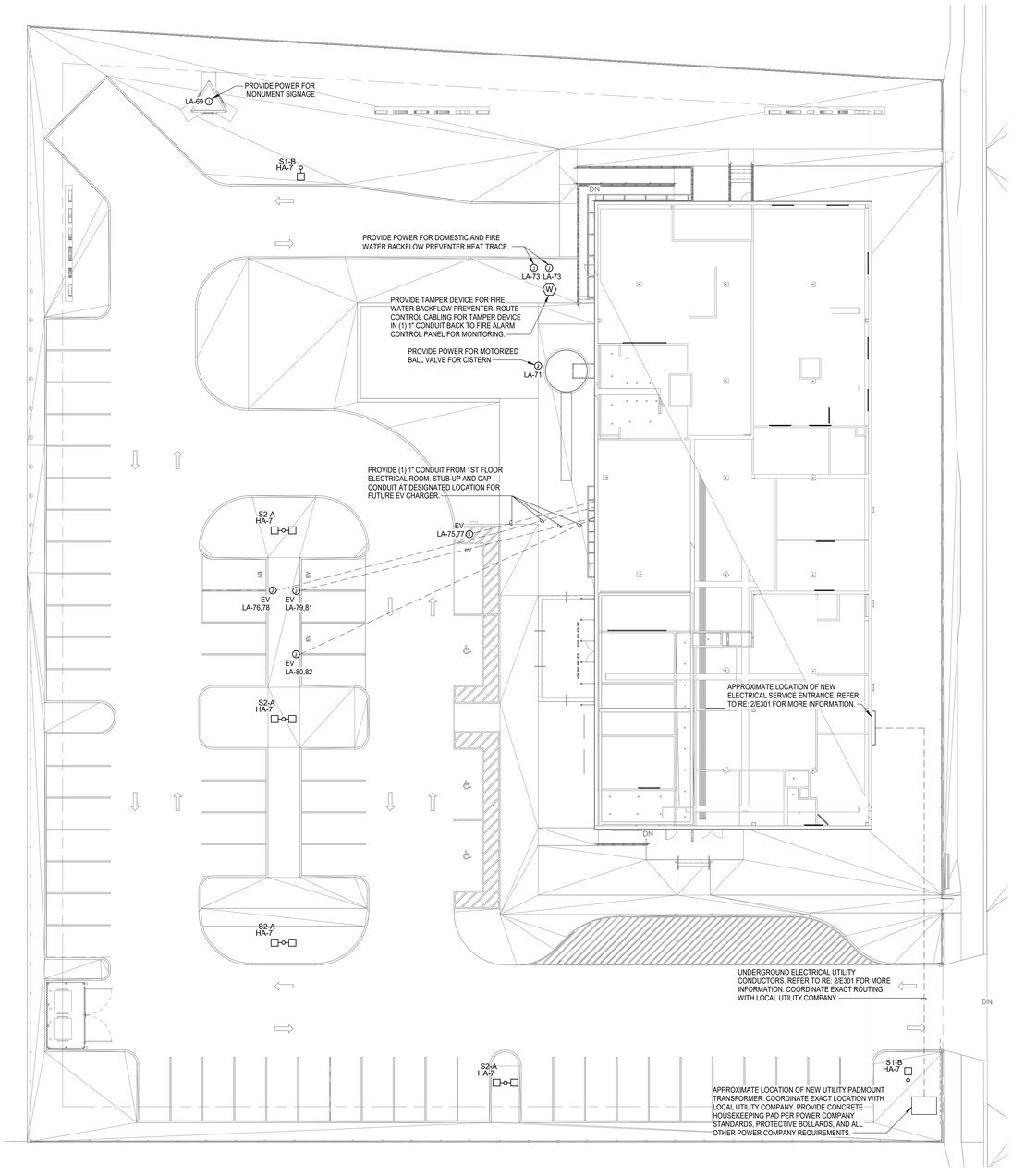
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
MECHANICAL SCHEDULES

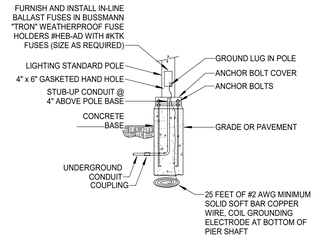
SHEET NO. M401



N

1 ELECTRICAL SITE PLAN

Scale: 1/16" = 1'-0"



2 METAL POLE W/ CONCRETE ANCHOR BASE ELEC REQS

Scale: NTS

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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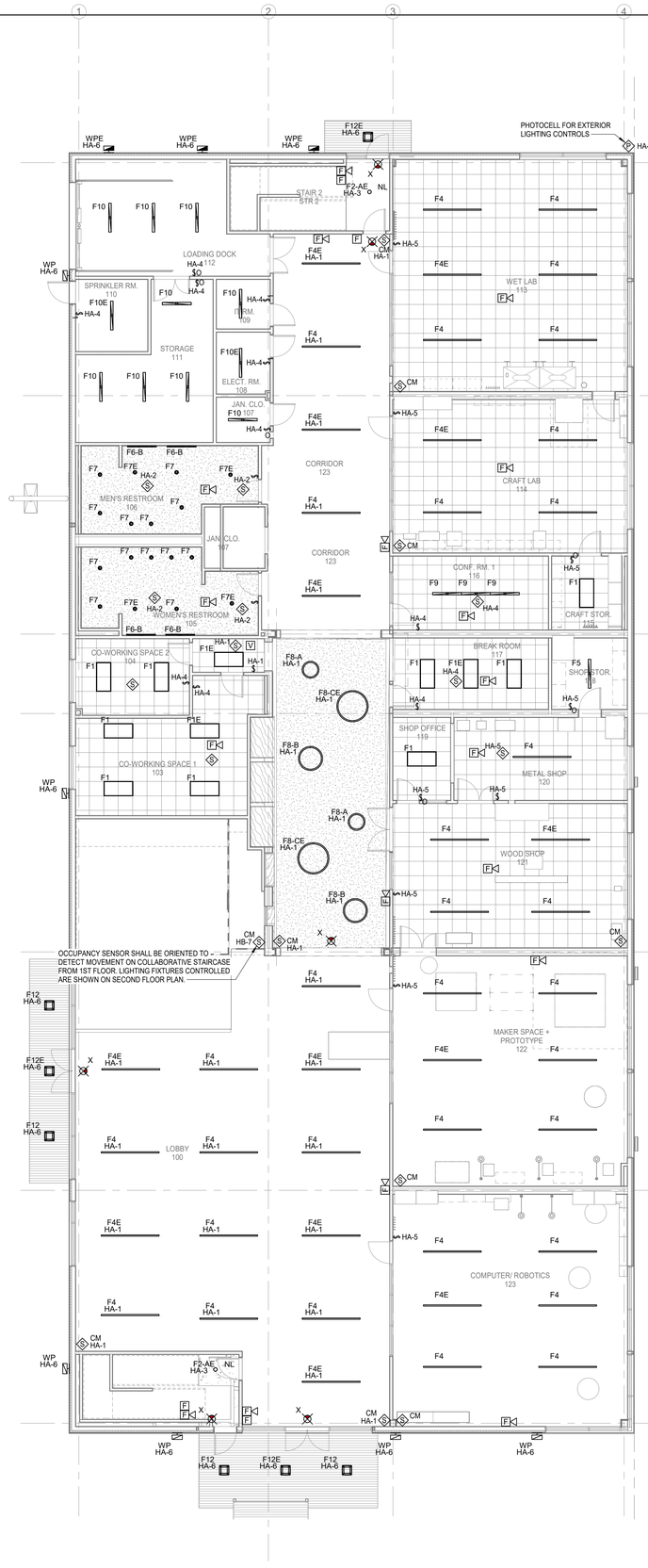
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME

ELECTRICAL SITE PLAN

SHEET NO. E100



N

1 **FIRST FLOOR LIGHTING PLAN**
Scale: 1/8" = 1'-0"

N

2 **SECOND FLOOR LIGHTING PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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REVISIONS

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01/15/2026

WDG Project No: 2024002

SHEET NAME
LIGHTING PLAN

SHEET NO.
E201

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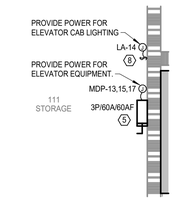
Registration: 0005857
Project No: 2550-00645

ELECTRICAL KEYED NOTES

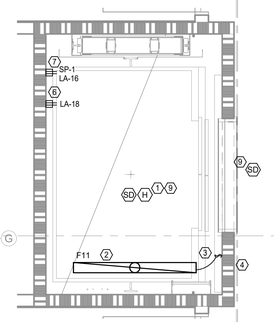
KEYED NOTE	Description
1	PROVIDE POWER FOR PLUGMOLD STRIP MOUNTED ABOVE COUNTER. COORDINATE EXACT MOUNTING LOCATION PRIOR TO ROUGH-IN. PLUGMOLD SHALL BE LEGRAND 2000 SERIES WITH (1) RECEPTACLE PER EVERY 12". COORDINATE FINAL LENGTH AND FINISH OF PLUGMOLD WITH ARCHITECT PRIOR TO ROUGH-IN.
2	PROVIDE POWER FOR AUTOMATIC SINK CONTROLS. COORDINATE EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
3	PROVIDE POWER FOR HAAS MINI CNC. COORDINATE EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
4	APPROXIMATE LOCATION OF 3D PRINTING STATION. 3D PRINTERS SHALL BE POWERED BY (3) CORD REELS ABOVE STATION.
5	PROVIDE POWER FOR EMCO E350 MILL. COORDINATE EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
6	APPROXIMATE LOCATION OF EPILOG FUSION PRO 32 LASER CUTTER. COORDINATE EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
7	PROVIDE POWER FOR WOOD LATHE. COORDINATE FINAL LOCATION PRIOR TO ROUGH-IN.
8	PROVIDE POWER FOR CNC LATHE. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
9	DUPLEX RECEPTACLES ABOVE WORK STATIONS SHALL BE CEILING MOUNTED TO POWER CORD REELS FOR SPACE. CORD REELS SHALL BE HUBBELL HBLC4012TT OR APPROVED EQUAL.

ELEVATOR KEYED NOTES

KEYED NOTE	Description
1	COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT WITH ELEVATOR MANUFACTURERS SHOP DRAWINGS FOR CLEARANCES AND PREFERRED LOCATIONS.
2	PROVIDE TYPE 'F11' FIXTURE WITH WIREGUARD ACCESSORY IN THE ELEVATOR PIT.
3	PROVIDE (2) SWITCHES FOR PIT AND HOISTWAY LIGHTS. ONE SWITCH SHALL BE LOCATED AT LEVEL 2 AND THE OTHER NEAR THE ELEVATOR PIT.
4	TELEPHONE FOR CAB COMMUNICATION. PROVIDE CAT3 6C TELEPHONE CABLE TO TELEPHONE DEMARCATION POINT.
5	PROVIDE ELEVATOR CONTROL MODULE WITH LOCKABLE FUSED SWITCH UNIT WITH SHUNT TRIP, CONTROL POINTS FOR HEAT AND SMOKE DETECTION, CONTROL POWER TRANSFORMER, FIRE ALARM INTERFACE, TEST SWITCH, PILOT LIGHT, AND INTERLOCK FOR ELEVATOR RECALL. BUSSMAN OR APPROVED EQUIVALENT.
6	PROVIDE RECEPTACLE IN PIT AND AT TOP LEVEL OF ELEVATOR HOISTWAY.
7	PROVIDE RECEPTACLE FOR SUMP PUMP.
8	PROVIDE 30A/1P/15AF/N1 DISCONNECT SWITCH FOR DISCONNECTING MEANS FOR ELEVATOR CAB LIGHTING.
9	PROVIDE HEAT DETECTOR ADJACENT TO EACH SPRINKLER HEAD IN THE HOISTWAY. PROVIDE SMOKE DETECTOR AT THE TOP OF THE HOISTWAY AND IN THE ELEVATOR LOBBIES ON EACH LEVEL. INTERFACE THE SMOKE DETECTORS WITH THE ELEVATOR CONTROLLER TO INITIATE ELEVATOR RECALL FUNCTION. INTERFACE HEAT DETECTORS WITH THE SHUNT TRIP DEVICE IN THE ELEVATOR DISCONNECT SWITCH FOR REMOVAL OF POWER UPON HEAT DETECTOR SETPOINT.



4 **ENLARGED ELEVATOR EQUIPMENT PLAN**
Scale: 1/2" = 1'-0"



3 **ENLARGED ELEVATOR PLAN**
Scale: 1/2" = 1'-0"

1 **FIRST FLOOR ELECTRICAL PLAN**
Scale: 1/8" = 1'-0"

2 **SECOND FLOOR ELECTRICAL PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
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REVISIONS

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01/15/2026

WDG Project No: 2024002

SHEET NAME
ELECTRICAL FLOOR PLANS

SHEET NO.
E211

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Project No: 2550-00645

ELECTRICAL CONNECTION KEYED NOTES

KEYED NOTE	Description
1	PROVIDE (5) #12 WIRE FOR POWER AND CONTROL CABLING TO ASSOCIATED EXTERIOR UNIT.
2	INTERLOCK EXHAUST FAN WITH LOCAL LIGHTING CIRCUIT SUCH THAT EXHAUST FAN IS ENERGIZED WHEN LIGHTS ARE TURNED ON.

1 **FIRST FLOOR ELECTRICAL CONNECTIONS PLAN**
Scale: 1/8" = 1'-0"

2 **SECOND FLOOR ELECTRICAL CONNECTIONS PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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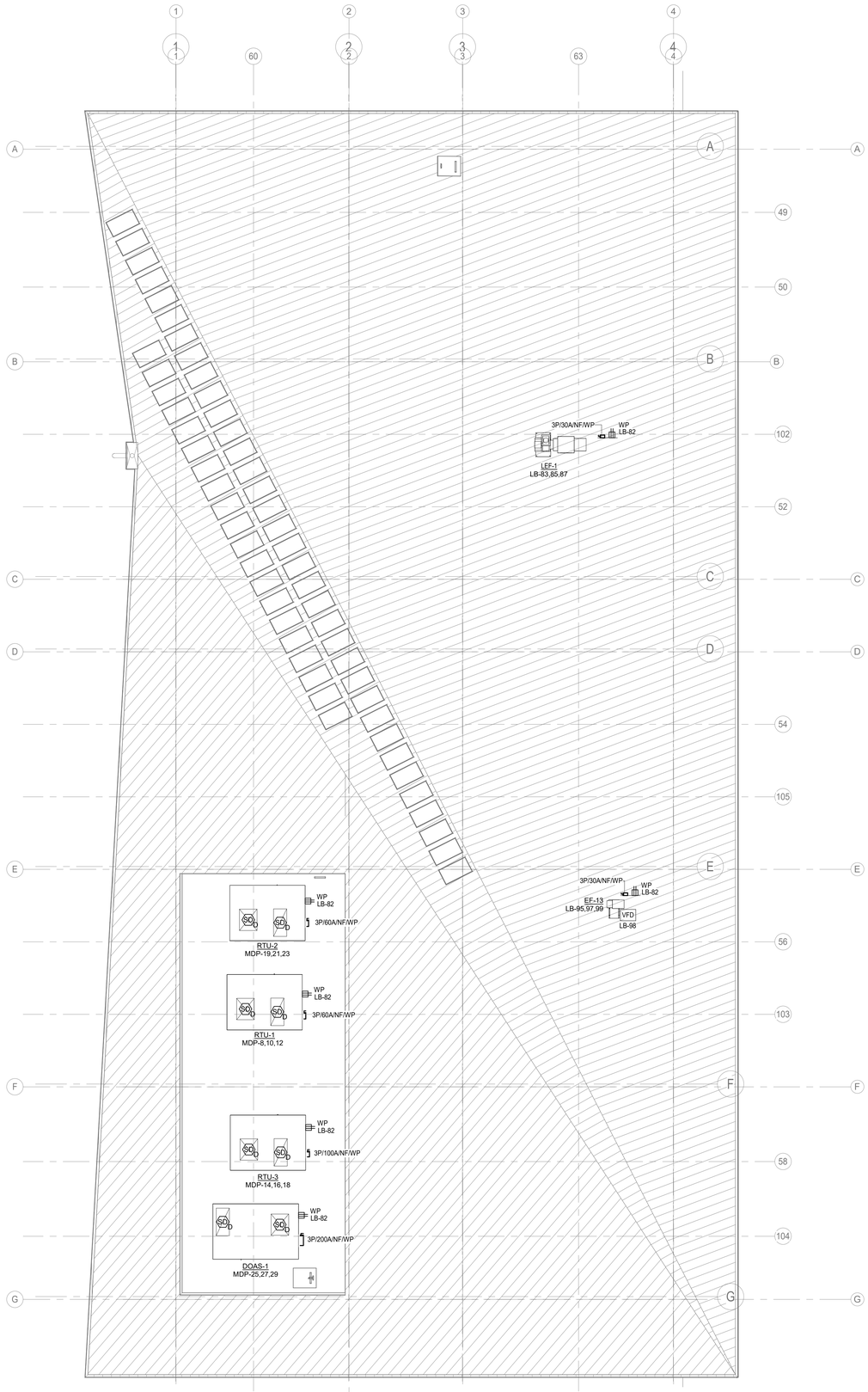
WDG Project No: 2024002

SHEET NAME
ELECTRICAL CONNECTION FLOOR PLANS

SHEET NO.
E212



N

1 **ELECTRICAL ROOF PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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DRAWING ISSUE

DATE	ISSUED FOR
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REVISIONS

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WDG Project No: 2024002

SHEET NAME
ELECTRICAL ROOF PLAN

SHEET NO.
E221

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Registration: 0005857
Project No: 2550-00645

Branch Panel: HA

Location: ELECT. RM. 108 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 22,000
Supply From: MDP | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 150A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	1ST FLOOR GENERAL LIGHTING	#12	20 1	2.6 / 0.4			1 20	#12	RESTROOM LIGHTING	2	
	3	STAIRCASE LIGHTING	#12	20 1		0.4 / 0.9		1 20	#12	1ST FLOOR LIGHTING	4	
	5	LAB LIGHTING	#12	20 1			3.4 / 0.6	1 20	#12	EXTERIOR LIGHTING	6	
	7	SITE LIGHTING	#12	20 1	0.6 / 8.9			1 45	#8	VAV-01	8	
	9	VAV-02	#10	25 1		5.0 / 0.5		1 15	#12	VAV-03	10	
	11	VAV-04	#12	15 1			1.2 / 0.9	1 15	#12	VAV-05	12	
	13	VAV-06	#12	15 1	1.7 / 1.0			1 15	#12	VAV-07	14	
	15	VAV-08	#12	15 1		1.1 / 3.0		1 15	#12	VAV-09	16	
	17						2.6 / 7.3				18	
	19	BOOSTER PUMP	#12	20 3	2.6 / 7.3			3 40	#8	WOOD SHOP DUST COLLECTOR	20	
	21					2.6 / 7.3					22	
	23						4.8 / 0.4				24	
	25	METAL SHOP DUST COLLECTOR	#12	25 3	4.8 / 0.4			3 20	#12	JP-1	26	
	27					4.8 / 0.4					28	
	29						0.5 / 0.5	1 20	#12	VAV-29	30	
	31	D-1	#12	20 3	0.5 / 0.5			1 20	#12	VAV-30	32	
	33					0.5 / 0.5		1 20	#12	VAV-31	34	
	35	VAV-32	#12	20 1			0.5 / 0.5	1 20	#12	VAV-33	36	
	37	VAV-34	#12	20 1	0.5 / 0.5			1 20	#12	VAV-35	38	
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
--	43	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	44	--
--	45	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	46	--
--	47	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	48	--
--	49	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	50	--
--	51	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	52	--
--	53	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	54	--
			Total Load:		32.4 kVA	27.1 kVA	23.2 kVA					
			Total Amps:		119 A	100 A	84 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	26.8 kVA	100.00%	26.8 kVA		
Lighting	8.9 kVA	125.00%	11.1 kVA	**Total Conn. Load:**	82.7 kVA
Miscellaneous	47.0 kVA	100.00%	47.0 kVA	**Total Est. Demand:**	84.9 kVA
				Total Conn. Current:	99 A
				Total Est. Demand Current:	102 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: HB

Location: ELECT. RM. 206 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 22,000
Supply From: MDP | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 225A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1				27.7 / 0.5			1 20	#12	RESTROOM LIGHTING	2	
	3	T-LB	1-I	125 3		26.8 / 1.8		1 20	#12	2ND FLOOR LIGHTING	4	
	5						21.9 / 3.1	1 15	#12	VAV-11	6	
	7	2ND FLOOR GENERAL LIGHTING	#12	20 1	1.9 / 1.0			1 15	#12	VAV-13	8	
	9	2ND FLOOR LIGHTING	#12	20 1		3.7 / 2.0		1 15	#12	VAV-15	10	
	11	VAV-10	#12	15 1			2.0 / 1.9	1 15	#12	VAV-17	12	
	13	VAV-12	#12	15 1	3.2 / 2.5			1 15	#12	VAV-19	14	
	15	VAV-14	#12	15 1		1.3 / 3.1		1 15	#12	VAV-21	16	
	17	VAV-16	#12	15 1			1.9 / 1.7	1 15	#12	VAV-23	18	
	19	VAV-18	#12	20 1	3.5 / 1.8			1 15	#12	VAV-25	20	
	21	VAV-20	#12	15 1		2.4 / 7.5		1 35	#8	VAV-27	22	
	23	VAV-22	#12	15 1			2.3 / 0.0	1 --	--	SPACE	24	--
	25	VAV-24	#12	15 1	2.5 / 0.0			1 --	--	SPACE	26	--
	27	VAV-26	#10	30 1		6.3 / 0.0		1 --	--	SPACE	28	--
	29	VAV-28	#8	40 1			8.0 / 0.0	1 --	--	SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
			Total Load:		44.6 kVA	54.9 kVA	42.8 kVA					
			Total Amps:		162 A	199 A	155 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	23.1 kVA	100.00%	23.1 kVA		
HVAC	5.5 kVA	100.00%	5.5 kVA	**Total Conn. Load:**	142.4 kVA
Heating	58.0 kVA	100.00%	58.0 kVA	**Total Est. Demand:**	131.1 kVA
Lighting	7.9 kVA	125.00%	9.9 kVA	**Total Conn. Current:**	171 A
Miscellaneous	11.4 kVA	100.00%	11.4 kVA	**Total Est. Demand Current:**	158 A
Receptacles	36.5 kVA	63.68%	23.3 kVA		

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER

I-LINE PANEL: MDP

Location: ELECT. RM. 108 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 22,000
Supply From: | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 1000A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1				93.2 / 44.6						2	
	3	T-LA	1-L	350 3		76.0 / 54.9		3 225	1-L	HB	4	
	5						73.3 / 42.8				6	
	7				32.4 / 12.5						8	
	9	HA	1-L	200 3		27.1 / 12.5		3 50	#8	RTU-1	10	
	11						23.2 / 12.5				12	
	13				5.8 / 15.0						14	
	15	ELEVATOR	#6	60 3		5.8 / 15.0		3 70	#4	RTU-3	16	
	17						5.8 / 15.0				18	
	19				13.6 / 12.0						20	
	21	RTU-2	#6	60 3		13.6 / 12.0		2 70	#4	EWH-1	22	
	23						13.6 / 18.0				24	
	25				27.7 / 18.0			3 100	#3	AC-1	26	
	27	DOAS-1	#2	110 3		27.7 / 18.0					28	
	29						27.7 / 0.0				30	
--	31	SPACE	--	-- 2	0.0 / 0.0			3 30	--	SPD	32	--
	33					0.0 / 0.0					34	
			Total Load:		274.7 kVA	262.5 kVA	231.8 kVA					
			Total Amps:		1009 A	965 A	837 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	33.5 kVA	100.00%	33.5 kVA		
HVAC	247.0 kVA	100.00%	247.0 kVA	**Total Conn. Load:**	768.9 kVA
Heating	86.3 kVA	100.00%	86.3 kVA	**Total Est. Demand:**	719.2 kVA
Kitchen Equipment	7.5 kVA	70.00%	5.3 kVA	**Total Conn. Current:**	925 A
Lighting	16.8 kVA	125.00%	21.0 kVA	**Total Est. Demand Current:**	865 A
Miscellaneous	264.6 kVA	100.00%	264.6 kVA		
Receptacles	113.3 kVA	54.41%	61.6 kVA		

Notes:
DISTRIBUTION PANEL 'MDP' SHALL HAVE AN ADDITIONAL 18" OF SPARE CAPACITY.

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
1-L - REFER TO RISER DIAGRAM FOR CONDUCTOR SIZE

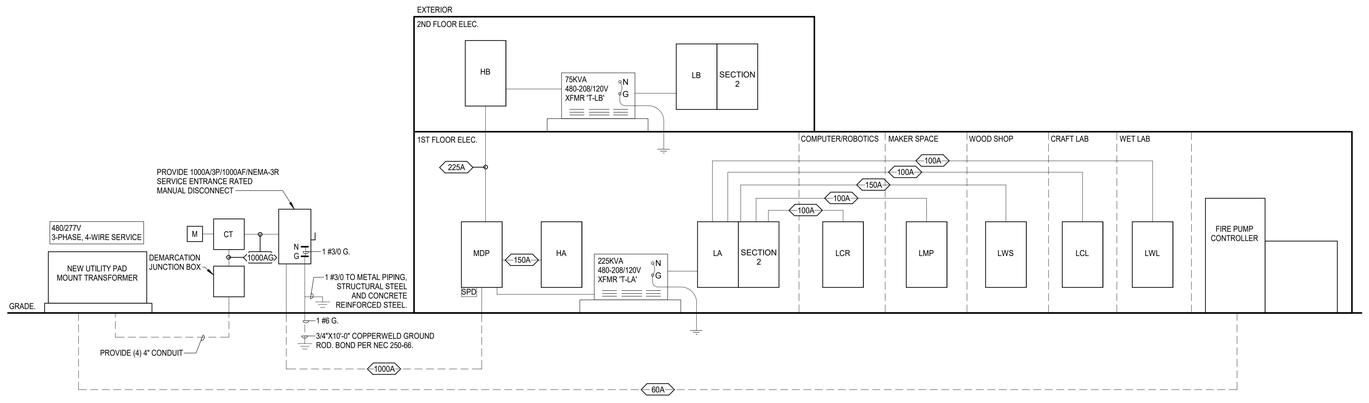
TRANSFORMER SCHEDULE

PRIMARY (480V 3PH 3W +GND)			SECONDARY (120/208V 3PH 4W +GND)		
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER	GROUNDING ELECTRODE CONDUCTOR
75KVA	3#2, 1-1/4"C, 1#6G	3P-125A	4#250KCMIL, 3"C, 1#2G	3P-250A	#2
225KVA	3#500KCMIL, 3"C, 1#2G	3P-350A	(3) SETS: 4#300KCMIL, 3"C, 1#2/0G	3P-800A	#2/0

FEEDER SCHEDULE

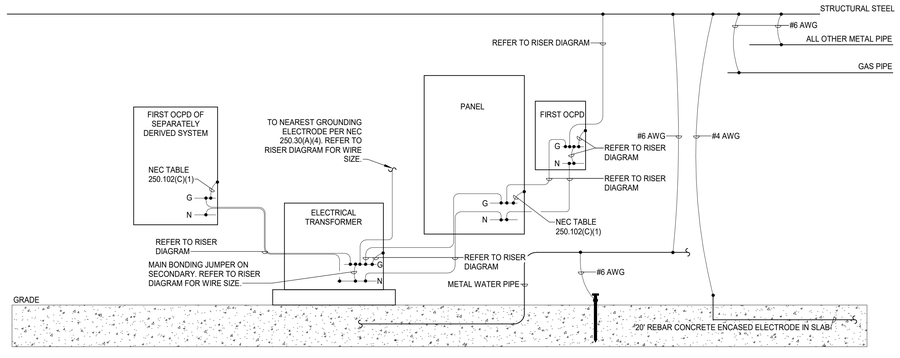
AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
60A	1	(4) #6	N/A	3"C
100A	1	(4) #3	#8	1-1/4"C
150A	1	(4) #1/0	#6	2"C
225A	1	(4) #4/0	#4	2-1/2"C
1000A	3	(4) #400KCMIL	#2/0	3"C
1000AG	3	(4) #400KCMIL	#3/0	3"C

1 CONDUIT SIZE AND QUANTITIES ARE BASED ON 3-PHASE 4-WIRE SYSTEMS. CONDUIT SIZE IS PERMITTED TO BE REDUCED BY THE CONTRACTOR AS PREMITTED BY THE NEC FOR THE REDUCED NUMBER OF CONDUCTORS THAT ARE TYPICAL FOR EQUIPMENT THAT IS SINGLE PHASE OR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL CONDUCTOR.
2 CONDUCTOR SIZES BASED ON NEC TABLE 310.16 - COPPER 75°.
3 GROUND SIZES BASED ON NEC TABLE 250.122 – COPPER, UNLESS NOTED OTHERWISE. FEEDER TAGS WITH 'SE' REFERS TO SERVICE ENTRANCE CONDUCTORS AND GROUND SIZES BASED ON NEC TABLE 250.66 – COPPER
4 CONDUIT FILL BASED ON NEC ANNEX C.



2 ELECTRICAL RISER DIAGRAM

Scale: NTS



1 GROUNDING DETAIL

Scale: NTS

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

STATE OF LOUISIANA
JOHN PALERMO
License No. 44340
PROFESSIONAL ENGINEER
01/15/2026

Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
ELECTRICAL DETAILS

SHEET NO.
E301

Branch Panel: LA

Location: ELECT. RM. 108 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: T-LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 600A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker	Wire		Circuit Description	CKT	Note
	1					3.7 / 12.7							2	
	3	LCR	1-L	100	3		3.7 / 9.5		3	100	1-L	LMS	4	
	5							2.2 / 12.4					6	
	7					20.2 / 12.0							8	
	9	LWS	1-L	150	3		16.0 / 9.8		3	100	1-L	LCL	10	
	11							16.2 / 9.6					12	
	13					4.6 / 0.5			1	20	#12	ELEVATOR CAB LIGHTING	14	
	15	LWL	1-L	100	3		4.0 / 0.2		1	20	#12	SP-1	16	
	17							0.7 / 0.2	1	20	#12	ELEVATOR RECEPT	18	
	19	RECEPT CONF. RM. 1 115	#12	20	1	1.3 / 0.7			1	20	#12	RECEPT CO-WORKING SPACE 1 103	20	
	21	RECEPT CO-WORKING SPACE 1 103	#12	20	1		0.7 / 0.7		1	20	#12	RECEPT CO-WORKING SPACE 2 103	22	
	23	GENERAL RECEPT	#12	20	1			0.7 / 0.4	1	20	#12	RESTROOM RECEPT	24	
	25	HAND DRYER	#12	20	1	1.5 / 1.5			1	20	#12	HAND DRYER	26	
G	27	WATER FOUNTAIN	#12	20	1		0.2 / 0.9		1	20	#12	1ST FLOOR FLOORBOX	28	
	29	GENERAL RECEPT	#12	20	1			0.7 / 1.1	1	20	#12	GENERAL RECEPT	30	
	31	HEATED CABINET	#12	20	1	0.2 / 0.2			1	20	#12	REACH-IN FREEZER	32	
	33	REACH-IN REFRIGERATOR	#12	20	1		0.2 / 0.9		1	20	#12	GENERAL KITCHEN RECEPT	34	
	35	HEATED CABINET	#12	20	1			0.2 / 3.3					36	
	37	CU-3	#8	35	2	3.3 / 3.3			2	35	#8	CU-1	38	
	39						3.3 / 2.6						40	
	41	CU-5	#8	40	2			2.6 / 2.6	2	40	#8	CU-6	42	
	43					2.6 / 1.0							44	
	45	DMSCU-3	#12	15	2		1.0 / 1.0		2	15	#12	DMSCU-1	46	
	47							1.0 / 2.4					48	
	49	DMSCU-2B	#10	30	2	2.4 / 2.4			2	30	#10	DMSCU-2A	50	
	51						2.4 / 0.5		1	20	#12	FLEX SPACE RECEPT	52	
	53	DMSCU-4	#12	20	2			1.6 / 0.5	1	20	#12	COLLABORATIVE STAIR RECEPT	54	
	55					1.6 / 2.2			2	25	#10	FCU-1 - FCU-6B	56	
	57	FACP	#12	20	1		0.5 / 2.2						58	
	59	SERVICE RECEPT	#12	20	1			0.4 / 0.1	1	20	#12	EF-1	60	
	61	EF-2	#12	20	1	0.1 / 0.1			1	20	#12	EF-3	62	
	63	EF-4	#10	25	1		0.2 / 0.1		1	20	#12	EF-5	64	
	65	AUTOMATIC FAUCET	#12	20	1			1.0 / 1.0	1	20	#12	AUTOMATIC FAUCET	66	
	67	AUTOMATIC FAUCET	#12	20	1	1.0 / 1.0			1	20	#12	AUTOMATIC FAUCET	68	
	69	MONUMENT SIGN	#12	20	1		0.5 / 0.7		1	20	#12	EXTERIOR RECEPT	70	
	71	CISTERN MOTORIZED BALL VALVE	#12	20	1			0.5 / 3.4	2	40	#8	OVEN	72	G
	73	HEAT TRACE	#12	20	1	1.0 / 3.4							74	
	75	EV CHARGER	#8	40	2		3.3 / 3.3		2	40	#8	EV CHARGER	76	
	77							3.3 / 3.3					78	
	79	EV CHARGER	#8	40	2	3.3 / 3.3			2	40	#8	EV CHARGER	80	
	81						3.3 / 3.3						82	
	83	EUH-1	#12	20	2			0.8 / 0.3	1	20	#12	EV-1 - EV-3	84	
	85					0.8 / 1.3			1	20	#12	SMOKE DAMPERS	86	
	87	RECEPT IT RM. 109	#12	20	1		0.4 / 0.4		1	20	#12	RECEPT IT RM. 109	88	
	89	RECEPT IT RM. 109	#12	20	1			0.4 / 0.5	1	20	#12	ACP & IDP PANELS	90	
--	91	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	92	--
--	93	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	94	--
--	95	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	96	--
--	97	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	98	--
--	99	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	100	--
--	101	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	102	--
--	103	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	104	--
--	105	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	106	--
--	107	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	108	--
			Total Load:			93.2 kVA	76.0 kVA	73.3 kVA						
			Total Amps:			780 A	637 A	611 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	10.4 kVA	100.00%	10.4 kVA		
HVAC	35.3 kVA	100.00%	35.3 kVA	**Total Conn. Load:**	242.5 kVA
Heating	1.5 kVA	100.00%	1.5 kVA	**Total Est. Demand:**	206.8 kVA
Kitchen Equipment	7.5 kVA	70.00%	5.3 kVA	**Total Conn. Current:**	673 A
Miscellaneous	111.0 kVA	100.00%	111.0 kVA	**Total Est. Demand Current:**	574 A
Receptacles	76.8 kVA	56.51%	43.4 kVA		

Notes:
PANEL 'LA' IS A 2-SECTION PANEL WITH 54 SPACES IN EACH SECTION.

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: LB

Location: ELECT. RM. 206 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: T-LB | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 225A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker	Wire		Circuit Description	CKT	Note
	1	FLOORBOX MULTI-PURPOSE RM 204	#12	20	1	0.7 / 0.5			1	20	#12	FLOORBOX MULTI-PURPOSE RM 204	2	
	3	FLOORBOX MULTI-PURPOSE RM 204	#12	20	1		0.5 / 0.5		1	20	#12	FLOORBOX MULTI-PURPOSE RM 204	4	
	5	RECEPT MULTI-PURPOSE RM 204	#12	20	1			0.7 / 0.4	1	20	#12	RESTROOM RECEPT	6	
	7	HAND DRYER	#12	20	1	1.5 / 1.5			1	20	#12	HAND DRYER	8	
G	9	WATER FOUNTAIN	#12	20	1		0.2 / 0.4		1	20	#12	RECEPT PRIVATE GROUP POD 210	10	
	11	RECEPT PRIVATE GROUP POD 210	#12	20	1			0.4 / 0.7	1	20	#12	RECEPT PRIVATE GROUP POD 210	12	
	13	WIREMOLD	#12	20	1	1.3 / 1.3			1	20	#12	WIREMOLD	14	
	15	WIREMOLD	#12	20	1		1.3 / 1.3		1	20	#12	WIREMOLD	16	
	17	RECEPT BREAK RM 211	#12	20	1			0.7 / 0.2	1	20	#12	REFRIGERATOR	18	G
	19	DISHWASHER	#12	20	1	0.2 / 0.4			1	20	#12	RECEPT BREAK RM 211	20	
	21	RECEPT CONF. RM 3 212	#12	20	1		1.1 / 0.4		1	20	#12	FLOORBOX CONF. RM 3 212	22	
	23	GENERAL RECEPT	#12	20	1			1.1 / 0.7	1	20	#12	GENERAL RECEPT	24	
	25	GENERAL RECEPT	#12	20	1	1.1 / 0.5			1	20	#12	RECEPT CO-WORKING SPACE 3 227	26	
	27	RECEPT CO-WORKING SPACE 3 227	#12	20	1		0.4 / 0.5		1	20	#12	RECEPT CO-WORKING SPACE 4 226	28	
	29	RECEPT CO-WORKING SPACE 4 226	#12	20	1			0.4 / 0.4	1	20	#12	RECEPT CO-WORKING SPACE 5 225	30	
	31	RECEPT CO-WORKING SPACE 5 225	#12	20	1	0.5 / 1.1			1	20	#12	OFFICE RECEPT	32	
	33	OFFICE RECEPT	#12	20	1		1.1 / 1.1		1	20	#12	RECEPT OFFICE 218	34	
	35	RECEPT OFFICE 218	#12	20	1			0.4 / 0.4	1	20	#12	RESTROOM RECEPT	36	
	37	OPEN OFFICE RECEPT	#12	20	1	0.7 / 0.9			1	20	#12	OPEN OFFICE RECEPT	38	
	39	RECEPT CONF. RM. 2 223	#12	20	1		1.1 / 0.5		1	20	#12	SYSTEMS FURNITURE	40	F
	41	AUTOMATIC FAUCET	#12	20	1			0.5 / 0.5	1	20	#12	SYSTEMS FURNITURE	42	F
	43	AUTOMATIC FAUCET	#12	20	1	0.5 / 0.5			1	20	#12	SYSTEMS FURNITURE	44	F
	45	AUTOMATIC FAUCET	#12	20	1		0.5 / 0.5		1	20	#12	SYSTEMS FURNITURE	46	F
	47	AUTOMATIC FAUCET	#12	20	1			0.5 / 0.2	1	20	#12	DIGITAL MEDIA FLOORBOX	48	
	49	DIGITAL MEDIA FLOORBOX	#12	20	1	0.2 / 0.2			1	20	#12	DIGITAL MEDIA FLOORBOX	50	
	51	DIGITAL MEDIA FLOORBOX	#12	20	1		0.2 / 0.2		1	20	#12	DIGITAL MEDIA FLOORBOX	52	
	53	DIGITAL MEDIA FLOORBOX	#12	20	1			0.2 / 0.2	1	20	#12	DIGITAL MEDIA FLOORBOX	54	
	55	DIGITAL MEDIA FLOORBOX	#12	20	1	0.2 / 0.2			1	20	#12	DIGITAL MEDIA FLOORBOX	56	
	57	DIGITAL MEDIA FLOORBOX	#12	20	1		0.2 / 0.2		1	20	#12	DIGITAL MEDIA FLOORBOX	58	
	59	DIGITAL MEDIA FLOORBOX	#12	20	1			0.2 / 0.2	1	20	#12	DIGITAL MEDIA FLOORBOX	60	
	61	DIGITAL MEDIA FLOORBOX	#12	20	1	0.2 / 0.2			1	20	#12	DIGITAL MEDIA FLOORBOX	62	
	63	DIGITAL MEDIA FLOORBOX	#12	20	1		0.2 / 0.2		1	20	#12	DIGITAL MEDIA FLOORBOX	64	
	65	DIGITAL MEDIA FLOORBOX	#12	20	1			0.2 / 0.2	1	20	#12	DIGITAL MEDIA FLOORBOX	66	
	67	DIGITAL MEDIA FLOORBOX	#12	20	1	0.2 / 0.2			1	20	#12	DIGITAL MEDIA FLOORBOX	68	
	69	DIGITAL MEDIA FLOORBOX	#12	20	1		0.2 / 0.2		1	20	#12	DIGITAL MEDIA FLOORBOX	70	
	71	DIGITAL MEDIA FLOORBOX	#12	20	1			0.2 / 0.2	1	20	#12	DIGITAL MEDIA FLOORBOX	72	
	73	DIGITAL MEDIA FLOORBOX	#12	20	1	0.2 / 0.2			1	20	#12	DIGITAL MEDIA FLOORBOX	74	
	75	DIGITAL MEDIA FLOORBOX	#12	20	1		0.2 / 0.2		1	20	#12	DIGITAL MEDIA FLOORBOX	76	
	77	DIGITAL MEDIA FLOORBOX	#12	20	1			0.2 / 0.9	1	20	#12	RECEPT DIGITAL MEDIA / GAMING 208	78	
	79	RECEPT DIGITAL MEDIA / GAMING 208	#12	20	1	1.1 / 0.7			1	20	#12	RECEPT DIGITAL MEDIA / GAMING 208	80	
	81	RECEPT DIGITAL MEDIA / GAMING 208	#12	20	1		0.7 / 1.1		1	20	#12	ROOFTOP RECEPT	82	
	83							1.6 / 3.8					84	
	85	LEF-1	#12	20	3	1.6 / 3.8			3	35	#8	CU-2	86	
	87						1.6 / 3.8						88	
	89							3.8 / 0.2	1	20	#12	PROJECTOR	90	
	91	CU-4	#8	35	3	3.8 / 0.2			1	20	#12	PROJECTOR	92	
	93						3.8 / 0.5		1	20	#12	MOTORIZED PROJECTOR SCREEN	94	
	95							0.2 / 0.5	1	20	#12	MOTORIZED PROJECTOR SCREEN	96	
	97	EF-13	#12	20	3	0.2 / 0.5			1	20	#12	VFD	98	
	99						0.2 / 1.5		1	20	#12	SMOKE DAMPERS	100	
	101	SMOKE DAMPERS	#12	20	1			0.9 / 0.4	1	20	#12	RECEPT IT RM. 207	102	
	103	RECEPT IT RM. 207	#12	20	1	0.4 / 0.4			1	20	#12	RECEPT IT RM. 207	104	
	105	ACP & IDP PANELS	#12	20	1		0.5 / 0.0		1	--	--	SPACE	106	--
--	107	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	108	--
--	109	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	110	--
--	111	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	112	--
--	113	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	114	--
--	115	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	116	--
--	117	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	118	--
--	119	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	120	--
--	121	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	122	--
--	123	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	124	--
--	125	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	126	--
--	127	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	128	--
--	129	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	130	--
--	131	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	132	--
--	133	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	134	--
--	135	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	136	--
--	137	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	138	--
--	139	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	140	--
--	141	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	142	--
--	143	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	144	--
			Total Load:			27.7 kVA	26.8 kVA	21.9 kVA						
			Total Amps:			237 A	230 A	183 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	23.1 kVA	100.00%	23.1 kVA		
HVAC	5.5 kVA	100.00%	5.5 kVA	**Total Conn. Load:**	76.5 kVA
Miscellaneous	11.4 kVA	100.00%	11.4 kVA	**Total Est. Demand:**	63.2 kVA
Receptacles	36.5 kVA	63.68%	23.3 kVA	**Total Conn. Current:**	212 A
				Total Est. Demand Current:	175 A

Notes:
PANEL 'LB' IS A 2-SECTION PANEL WITH 72 SPACES IN EACH SECTION.

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
F - PROVIDE TIE-BARS OR MULTI-POLE BREAKERS FOR CIRCUITS WHICH ARE SHARING A NEUTRAL

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

STATE OF LOUISIANA
JOHN PALERMO
License No. 44343
PROFESSIONAL ENGINEER
01/15/2026

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Baton Rouge, LA 70809

Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
ELECTRICAL PANEL SCHEDULES

SHEET NO.
E302

Branch Panel: LMP

Location: LOBBY 100 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: RECESSED | **Wires:** 4 | **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	CORD REEL	2	
	3	CORD REEL	#12	20 1		0.2 / 0.2		1 20	#12	CORD REEL	4	
	5	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	6	
	7	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	CORD REEL	8	
	9	CORD REEL	#12	20 1		0.2 / 0.2		1 20	#12	CORD REEL	10	
	11	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	12	
	13	CORD REEL	#12	20 1	0.2 / 1.7			1 20	#12	WIREMOLD	14	
	15	WIREMOLD	#12	20 1		1.7 / 1.7		1 20	#12	WIREMOLD	16	
	17	LASER CUTTER	#12	20 1			1.7 / 4.5	2 50	#8	EMCO E350 MILL	18	
	19				3.8 / 4.5						20	
	21	MINI CNC	#8	40 3		3.8 / 1.7		1 20	#12	WIREMOLD	22	
	23						3.8 / 1.7	1 20	#12	WIREMOLD	24	
	25	WIREMOLD	#12	20 1	1.7 / 0.2			1 20	#12	GENERAL RECEPT	26	
--	27	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
		Total Load:			12.7 kVA	9.5 kVA	12.4 kVA					
		Total Amps:			109 A	79 A	107 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	20.3 kVA	100.00%	20.3 kVA		
Receptacles	14.3 kVA	84.97%	12.2 kVA	**Total Conn. Load:**	34.6 kVA
				Total Est. Demand:	32.4 kVA
				Total Conn. Current:	96 A
				Total Est. Demand Current:	90 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: LCL

Location: CRAFT LAB 114 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: RECESSED | **Wires:** 4 | **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	WIREMOLD	#12	20 1	2.1 / 2.1			1 20	#12	WIREMOLD	2	
	3	WIREMOLD	#12	20 1		1.1 / 1.1		1 20	#12	WIREMOLD	4	
	5	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	6	
	7	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	RECEPT	8	
	9	RECEPT	#12	20 1		0.2 / 0.2		1 20	#12	RECEPT	10	
	11						7.3 / 2.0	1 20	#12	WIREMOLD	12	
	13	KILN	#4	80 3	7.3 / 0.2			1 20	#12	GENERAL RECEPT	14	
	15					7.3 / 0.0		1 --	--	SPACE	16	--
--	17	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	18	--
--	19	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	20	--
--	21	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	22	--
--	23	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	24	--
--	25	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	26	--
--	27	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
		Total Load:			12.0 kVA	9.8 kVA	9.6 kVA					
		Total Amps:			100 A	82 A	80 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	21.9 kVA	100.00%	21.9 kVA		
Receptacles	9.5 kVA	100.00%	9.5 kVA	**Total Conn. Load:**	31.4 kVA
				Total Est. Demand:	31.4 kVA
				Total Conn. Current:	87 A
				Total Est. Demand Current:	87 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: LWL

Location: WET LAB 113 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: RECESSED | **Wires:** 4 | **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	CORD REEL	2	
	3	CORD REEL	#12	20 1		0.2 / 0.2		1 20	#12	CORD REEL	4	
	5	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	6	
	7	WIREMOLD	#12	20 1	1.7 / 1.7			1 20	#12	WIREMOLD	8	
	9	WIREMOLD	#12	20 1		1.7 / 2.0		1 20	#12	WIREMOLD	10	G
	11	FUME EXHAUST HOOD	#12	20 1			0.2 / 0.2	1 20	#12	FUME EXHAUST HOOD	12	
	13	GENERAL RECEPT	#12	20 1	0.7 / 0.2			1 20	#12	GLASS WASHER	14	
--	15	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	16	--
--	17	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	18	--
--	19	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	20	--
--	21	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	22	--
--	23	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	24	--
--	25	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	26	--
--	27	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
		Total Load:			4.6 kVA	4.0 kVA	0.7 kVA					
		Total Amps:			43 A	38 A	6 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacles	9.4 kVA	100.00%	9.4 kVA		
				Total Conn. Load:	9.4 kVA
				Total Est. Demand:	9.4 kVA
				Total Conn. Current:	26 A
				Total Est. Demand Current:	26 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

Branch Panel: LCR

Location: COMPUTER/ ROBOTICS 123 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: RECESSED | **Wires:** 4 | **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	CORD REEL	2	
	3	CORD REEL	#12	20 1		0.2 / 0.2		1 20	#12	CORD REEL	4	
	5	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	6	
	7	WIREMOLD	#12	20 1	1.7 / 1.7			1 20	#12	WIREMOLD	8	
	9	WIREMOLD	#12	20 1		1.7 / 1.7		1 20	#12	WIREMOLD	10	
	11	WIREMOLD	#12	20 1			1.7 / 0.2	1 20	#12	TV RECEPT	12	
--	13	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	14	--
--	15	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	16	--
--	17	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	18	--
--	19	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	20	--
--	21	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	22	--
--	23	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	24	--
--	25	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	26	--
--	27	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	28	--
--	29	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	30	--
--	31	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	32	--
--	33	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	34	--
--	35	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	36	--
--	37	SPACE	--	-- 1	0.0 / 0.0			1 --	--	SPACE	38	--
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
		Total Load:			3.7 kVA	3.7 kVA	2.2 kVA					
		Total Amps:			33 A	33 A	19 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacles	9.6 kVA	100.00%	9.6 kVA		
				Total Conn. Load:	9.6 kVA
				Total Est. Demand:	9.6 kVA
				Total Conn. Current:	27 A
				Total Est. Demand Current:	27 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: LWS

Location: WOOD SHOP 121 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: RECESSED | **Wires:** 4 | **Mains:** 150A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	CORD REEL	#12	20 1	0.2 / 0.2			1 20	#12	CORD REEL	2	
	3	CORD REEL	#12	20 1		0.2 / 0.2		1 20	#12	CORD REEL	4	
	5	CORD REEL	#12	20 1			0.2 / 0.2	1 20	#12	CORD REEL	6	
	7	WIREMOLD	#12	20 1	2.2 / 1.6			1 20	#12	WIREMOLD	8	
	9	WIREMOLD	#12	20 1		1.6 / 1.6		1 20	#12	WIREMOLD	10	
	11	WIREMOLD	#12	20 1			1.5 / 1.5	1 20	#12	WIREMOLD	12	
	13	WOOD LATHE	#12	20 2	1.7 / 1.7			2 20	#12	EQUIPMENT ZONE POWER	14	
	15					1.7 / 1.7					16	
	17	EQUIPMENT ZONE POWER	#12	20 2			1.7 / 1.9				18	
	19				1.7 / 1.9			3 20	#12	EQUIPMENT ZONE POWER	20	
	21					1.9 / 1.9					22	
	23	MISCELLANEOUS EQUIPMENT	#12	20 3			1.9 / 1.9				24	
	25				1.9 / 1.9			3 20	#12	CNC LATHE	26	
	27	WIREMOLD	#12	20 1		1.6 / 1.9					28	
	29	WIREMOLD	#12	20 1			1.6 / 1.6	1 20	#12	WIREMOLD	30	
	31	WIREMOLD	#12	20 1	1.6 / 2.2			1 20	#12	WIREMOLD	32	
	33	BLAST CABINET	#12	20 1		1.3 / 0.5		1 20	#12	GENERAL RECEPT	34	
	35	OFFICE RECEPT	#12	20 1			0.5 / 1.7	2 20	#12	METAL SHOP POWER	36	
--	37	SPACE	--	-- 1	0.0 / 1.7						38	
--	39	SPACE	--	-- 1		0.0 / 0.0		1 --	--	SPACE	40	--
--	41	SPACE	--	-- 1			0.0 / 0.0	1 --	--	SPACE	42	--
		Total Load:			20.2 kVA	16.0 kVA	16.2 kVA					
		Total Amps:			168 A	133 A	135 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	30.3 kVA	100.00%	30.3 kVA		
Receptacles	22.0 kVA	72.70%	16.0 kVA	**Total Conn. Load:**	52.3 kVA
				Total Est. Demand:	46.3 kVA
				Total Conn. Current:	145 A
				Total Est. Demand Current:	129 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

STATE OF LOUISIANA
JOHN PALERMO
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01/15/2026

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Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
ELECTRICAL PANEL SCHEDULES

SHEET NO.
E303

LIGHTING FIXTURE SCHEDULE

Type Mark	MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
F1	HEW	BP-2-4-LS	RECESSED	5,000L LED	3500 K	80	277 V	40 W	2'X4' RECESSED LED FLAT PANEL.
F1E	HEW	BP-2-4-LS	RECESSED	5,000L LED	3500 K	80	277 V	40 W	2'X4' RECESSED LED FLAT PANEL. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F2-AE	HEW	4CR	SURFACE	2,500L LED	3500 K	80	277 V	30 W	4" LED SURFACE MOUNTED CYLINDER DOWNLIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F3	SPECTRUM	PRDDH16LX	PENDANT	10,500L LED	3500 K	80	277 V	80 W	PENDANT MOUNTED LED LOW/HIGH BAY FIXTURE.
F3E	SPECTRUM	PRDDH16LX	PENDANT	10,500L LED	3500 K	80	277 V	80 W	PENDANT MOUNTED LED LOW/HIGH BAY FIXTURE. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F4	HEW	MX2UD	SUSPENDED	800L/FT LED	3500 K	80	277 V	120 W	8' SUSPENDED LED LINEAR STRIP LIGHT
F4E	HEW	MX2UD	SUSPENDED	800L/FT LED	3500 K	80	277 V	120 W	8' SUSPENDED LED LINEAR STRIP LIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F5	LUX	EOS 2.0-P-DI	PENDANT	750L/FT LED	3500 K	80	277 V	48 W	4' DECORATIVE LED PATTERN LINEAR. COORDINATE FINAL FIXTURE PATTERN WITH ARCHITECTURAL RCP.
F5E	LUX	EOS 2.0-P-DI	PENDANT	750L/FT LED	3500 K	80	277 V	48 W	4' DECORATIVE LED PATTERN LINEAR. COORDINATE FINAL FIXTURE PATTERN WITH ARCHITECTURAL RCP. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F6-A	HEW	LLM-2	WALL	1000L/FT LED	3500 K	80	277 V	14 W	2' LED VANITY FIXTURE.
F6-B	HEW	LLM-4	WALL	1000L/FT LED	3500 K	80	277 V	28 W	4' LED VANITY FIXTURE.
F7	HEW	4FDR	RECESSED	2,000L LED	3500 K	80	277 V	20 W	4" LED RECESSED DOWNLIGHT.
F7E	HEW	4FDR	RECESSED	2,000L LED	3500 K	80	277 V	20 W	4" LED RECESSED DOWNLIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F8-A	CORONET	LOOP-18	SUSPENDED	2,000L LED	3500 K	80	277 V	23 W	18" SUSPENDED LED HALO LIGHT.
F8-B	CORONET	LOOP-3	SUSPENDED	3,500L LED	3500 K	80	277 V	45 W	3' SUSPENDED LED HALO LIGHT.
F8-C	CORONET	LOOP-4	SUSPENDED	4,500L LED	3500 K	80	277 V	54 W	4' SUSPENDED LED HALO LIGHT.
F8-CE	CORONET	LOOP-4	SUSPENDED	4,500L LED	3500 K	80	277 V	54 W	4' SUSPENDED LED HALO LIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F9	HEW	MX4UD	SUSPENDED	800L/FT LED	3500 K	80	277 V	60 W	4' SUSPENDED LED LINEAR STRIP
F10	HEW	FS-4	SURFACE	5,000L LED	3500 K	80	277 V	32 W	4' LED STRIP LIGHT
F10E	HEW	FS-4	SURFACE	5,000L LED	3500 K	80	277 V	32 W	4' LED STRIP LIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
F11	HEW	96-4	SURFACE	4,000L LED	3500 K	80	277 V	31 W	4' LED VAPORTITE FIXTURE.
F12	BEACON	LSQ2-40	SURFACE	4,500L LED	4000 K	70	277 V	40 W	SQUARE LED CANOPY LIGHT.
F12E	BEACON	LSQ2-40	SURFACE	4,500L LED	4000 K	70	277 V	40 W	SQUARE LED CANOPY LIGHT. PROVIDE WITH INTEGRAL BATTERY BACKUP.
S1-B	LSI	VALM-18L-3M-40K	POLE MOUNT 1 @ 90	14,000L LED	4000 K	80	277 V	104 W	LED POLE LIGHT TYPE III AREA LUMINAIRE. MOUNT FIXTURE AT 30'-0" AG. PROVIDE FIXTURE WITH INTEGRAL OCCUPANCY SENSOR.
S2-A	LSI	VALM-18L-5QN-40K	POLE MOUNT 1 @ 180	18,000L LED	4000 K	80	277 V	104 W	LED POLE LIGHT TYPE V AREA LUMINAIRE. MOUNT FIXTURE AT 30'-0" AG. PROVIDE FIXTURE WITH INTEGRALL OCCUPANCY SENSOR.
WP	LSI	WPSLL-04L-40	WALL	4,000L LED	4000 K	80	277 V	30 W	LED WALL PACK. MOUNT FIXTURE AT +8'-0" AFF
WPE	LSI	WPSLL-04L-40	WALL	4,000L LED	4000 K	80	277 V	30 W	LED WALL PACK. PROVIDE WITH INTEGRAL BATTERY BACKUP. MOUNT FIXTURE AT +8'-0" AFF
X	HEW	EVE-U-R-W-E-I	SURFACE	LED	4000 K	80	277 V	11 W	UNIVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.

1	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "E" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AE, C2E, FE") AND/OR A HALF SHADED REGION SHALL BE THE BASE FIXTURE TYPE EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
2	ALL REQUIRED TEST SWITCHES FOR THE BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE.
3	REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
4	UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER SHALL SELECT ALL FINISHES, COLORS, AND TRIMS.
5	ALL LED FIXTURE BOARDS AND DRIVERS SHALL BE OF THE LATEST GENERATION, BASED UPON THE INDIVIDUAL MANUFACTURER'S STATED LITERATURE. IF A "GEN 5" IS AVAILABLE, "GEN 4" FIXTURES ARE NOT ACCEPTABLE.
6	EXIT SIGNS AND EMERGENCY BATTERY BACK-UPS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AS REQUIRED TO MAINTAIN THE BATTERIES AT FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED.
7	LIGHTING FIXTURE MANUFACTURERS OTHER THAN THOSE LISTED IN THE LIGHTING FIXTURE SCHEDULE AND DESIRING TO BID THIS PROJECT SHALL REQUEST PRIOR APPROVAL OF THE FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEETS.
8	FOR PRIOR APPROVALS AND SUBMITTALS THAT DEVIATE FROM NOMINAL WATTAGE AND/OR DELIVERED LUMENS, IT SHALL BE UP THE ENGINEER'S SOLE DISCRETION TO APPROVE OR DECLINE THESE FIXTURES BASED ON ANY AND ALL FACTORS INCLUDING BUT NOT LIMITED TO INTENDED LIGHTING LEVELS FOR EACH SPACE AND IMPACT ON THE OVERALL ELECTRICAL POWER SYSTEM.
9	ALL LIGHTING SPECIFIED SHALL BE 4000K INTERIOR UNLESS NOTED OTHERWISE.
10	THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.
11	WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED. OTHERWISE PROVIDE AS INDICATED IN SCHEDULE.
12	FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.
13	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "X" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AX, C2X, FX") SHALL BE THE BASE FIXTURE TYPE CONNECTED TO EMERGENCY LIGHTING INVERTER SYSTEM. REFER TO DETAIL 3 SHEET 10.42 FOR ADDITIONAL INFORMATION.
14	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "A" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE T YPE "A1A, C2A, FA") SHALL BE THE BASE FIXTURE TYPE EXCEPT SUITABLE FOR GYPSUM CEILING INSTALLATION AND EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
15	ALL EXTERIOR LIGHT FIXTURES RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET LOCATION. WHERE SPECIFICALLY STATED IN THE LIGHTING FIXTURE SCHEDULE AS "DAMP LOCATION" FIXTURES AND PROTECTED BY THE BUILDING STRUCTURE FROM FALLING OR WIND DRIVEN RAIN OR SNOW, THEY MAY BE EITHER DAMP OR WET LOCATION LISTED.
16	ALL EXTERIOR LIGHT FIXTURES NOT RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET FROM ABOVE LOCATION.

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	POWER POLE
	125/250 VOLT, 1 PHASE, 3-WIRE, AMPACITY SHALL MATCH CIRCUIT BREAKERS SIZE. RECEPTACLE CONFIGURATIONS AND WIRING SHALL INCLUDE A NEUTRAL. PROVIDE 3-PHASE RECEPTACLES WHERE SHOWN FED FROM 3-POLE CIRCUITS.
	CEILING MOUNTED RECEPTACLE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	4-GANG FLUSH FLOOR DUPLEX RECEPTACLE OUTLET AND (4) DATA PORTS. REFER TO DIV-27 DRAWINGS FOR DATA REQUIREMENTS TO FLOORBOX. BOX SHALL BE CONCEALED SERVICE IF INSTALLED ON GROUND LEVEL, OR A POKE-THRU BOX WHEN INSTALLED ON A LEVEL ABOVE GRADE.
	FLUSH FLOOR DOUBLE DUPLEX RECEPTACLE OUTLET. BOX SHALL BE CONCEALED SERVICE IF INSTALLED ON GROUND LEVEL, OR A POKE-THRU BOX WHEN INSTALLED ON A LEVEL ABOVE GRADE.
	MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS. SIZE TO MATCH DEVICE QUANTITIES. BOX SHALL BE CONCEALED SERVICE IF INSTALLED ON GROUND LEVEL, OR A POKE-THRU BOX WHEN INSTALLED ON A LEVEL ABOVE GRADE.
H	HAND DRYER.
U	PROVIDE DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS.

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
MISCELLANEOUS EQUIPMENT	
SD	SMOKE DAMPER
MOTOR CONTROLLERS AND EQUIPMENT	
VFD	VARIABLE FREQUENCY DRIVE
	DISCONNECT SWITCH AS REQUIRED
$M	MANUAL MOTOR SWITCH AS REQUIRED
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26
ELECTRICAL EQUIPMENT	
	ELECTRICAL DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
CIRCUITING	
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
SF	PROVIDE FURNITURE FEED OUTLET FOR SYSTEMS FURNITURE
TV	INDICATES WALL MOUNTED TELEVISION. COORDINATE MOUNTING HEIGHT PRIOR TO ROUGH-IN.
NL	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
1-L	REFER TO ONE-LINE DIAGRAM
⊢	INDICATES WALL MOUNTED DEVICE
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

GENERAL NOTES:

-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM.

LIGHTING CONTROL SCHEDULE

SYMBOL	DESCRIPTION AND PROGRAMMING (DISREGARD ITEMS NOT SHOWN ON PLANS)
SWITCHES AND CONTROLS	
$	WALL SWITCH WITH MANUAL ON/OFF OVERRIDE AND MANUAL UP/DOWN DIMMING CONTROL. INTERFACE WITH CEILING-MOUNTED OCCUPANCY OR VACANCY SENSORS WITHIN THE SAME ZONE OF CONTROL.
$1	WALL SWITCH FOR MANUAL ON/OFF CONTROL, NO DIMMING FUNCTIONALITY REQUIRED.
$O	WALL-MOUNTED OCCUPANCY SENSOR WITH MANUAL ON/OFF OVERRIDE AND MANUAL UP/DOWN DIMMING CONTROL. PROGRAM FOR AUTOMATIC ON TO 50% POWER UPON SPACE OCCUPANCY, AUTOMATIC OFF WITHIN 15 MINUTES OF SPACE VACANCY.
S	CEILING OR SURFACE MOUNTED OCCUPANCY SENSOR. PROGRAM FOR AUTOMATIC ON TO 50% POWER UPON SPACE OCCUPANCY, AUTOMATIC OFF WITHIN 15 MINUTES OF SPACE VACANCY. INTERFACE WITH WALL-MOUNTED SWITCHES IN THE SPACE FOR MANUAL CONTROL.
S C	CEILING OR SURFACE MOUNTED OCCUPANCY SENSOR. PROGRAM FOR 100% POWER UPON SPACE OCCUPANCY, DIM TO 50% WITHIN 15 MINUTES OF SPACE VACANCY. INTERFACE WITH WALL-MOUNTED SWITCHES IN THE SPACE FOR MANUAL CONTROL.
D	CEILING OR SURFACE MOUNTED DAYLIGHT SENSOR, REFER TO LIGHTING PLANS FOR DAYLIGHT ZONES. THE DAYLIGHT SENSOR SHALL LIMIT THE POWER LEVELS OF LIGHT FIXTURES WITHIN THE ASSOCIATED PRIMARY OR SECONDARY DAYLIGHT ZONE BASED ON THE SENSOR CALIBRATION. LAYER WITH OTHER MANUAL AND AUTOMATIC LIGHTING CONTROLS SHOWN.
P	BUILDING-MOUNTED PHOTOCELL, INTERFACE WITH THE ASSOCIATED TIMECLOCK OR LIGHTING CONTROL PANEL FOR AUTOMATIC ON/OFF OF EXTERIOR LIGHT FIXTURES WHEN SUFFICIENT DAYLIGHT IS PRESENT.
TC	TIMECLOCK FOR CONTROL OF ZONES AND CIRCUITS AS INDICATED ON LIGHTING PLANS AND PANEL SCHEDULES. THE TIMECLOCK SHALL BE CAPABLE OF BEING PROGRAMMED FOR SEVEN DAYS AND SEVEN DIFFERENT DAY TYPES PER WEEK, SHALL INCORPORATE AN AUTOMATIC HOLIDAY SETBACK FEATURE, AND SHALL HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS UPON POWER INTERRUPTION.
$T	WALL SWITCH FOR MANUAL ON/OFF OVERRIDE OF THE INDICATED TIMECLOCK ZONE
SUBSCRIPTS AND ABBREVIATIONS	
WP	THE INDICATED SWITCH SHALL BE WEATHERPROOF
CM	THE INDICATED SENSOR SHALL BE CORNER MOUNTED FACING OUTWARD TO SPACE.
HB	THE INDICATED SENSOR SHALL BE RATED FOR HIGH-BAY APPLICATIONS
NL	LIGHT FIXTURE SHALL BE DESIGNATED AS A NIGHT-LIGHT AND HARD-WIRED AHEAD OF ANY LIGHTING CONTROLS SHOWN IN THE SPACE

LIGHTING PLAN NOTES:

1. ALL LIGHTING CONTROL DEVICES AND PROGRAMMING SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE ENERGY CODE ADOPTED BY THE LOCAL JURISDICTION.
2. CIRCUIT LIGHT FIXTURES TO THE CIRCUIT SHOWN ADJACENT TO LIGHTING CONTROLS.
3. IT IS INTENDED THAT LIGHTING CONTROLS SHOWN IN EACH SPACE ARE TO CONTROL LIGHT FIXTURES WITHIN THAT SPACE. WHERE IT IS INTENDED THAT THERE ARE MULTIPLE CONTROL ZONES IN A SPACE, OR WHERE CONTROL ZONES MAY NOT BE AS OBVIOUS DUE TO THE SIZE OR SHAPE OF THE SPACE, REFER TO LOWERCASE CONTROL ZONE LETTERS SUCH AS 'a', ARCS, OR VERBIAGE FOR FURTHER CLARIFICATION.
4. WHEN MULTIPLE OCCUPANCY OR VACANCY SENSORS ARE SHOWN IN A SINGLE SPACE OR CONTROL ZONE, IT IS INTENDED THAT THEY ARE INTERFACED TOGETHER SUCH THAT IF ANY INDIVIDUAL CONTROL DEVICE PROGRAMMING CONDITIONS ARE MET IT SHALL ACTIVATE OR DEACTIVATE THE ENTIRE CONTROL ZONE OR SPACE.
5. ALL LIGHTING CONTROLS WITH DIMMING FUNCTIONALITY FURNISHED SHALL BE COMPATIBLE WITH THE DIMMING TECHNOLOGY OF THE ASSOCIATED LIGHT FIXTURES. PROVIDE ADDITIONAL CABLING FOR 0-10V DIMMING LIGHT FIXTURES AS REQUIRED. IN THE EVENT THAT THERE ARE FIXTURES WITH DIFFERENT DIMMING TECHNOLOGIES ON THE SAME CONTROL ZONE, PROVIDE ADDITIONAL CONTROL ZONES AS REQUIRED FOR EACH DIMMING TYPE.
6. IN ANY APPLICATION WHERE DIMMING IS REQUIRED, THE CONTROLS SHALL BE CAPABLE OF ALLOWING THE USER TO DIM ON THE FULL RANGE OF MAXIMUM OUTPUT TO THE MINIMUM OUTPUT RATING OF THE FIXTURE DRIVER (0.1%, 1%, ETC.)
7. PRIOR TO PASSING FINAL INSPECTION, AN APPROVED AGENCY SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE AS REQUIRED IN CONFORMANCE WITH THE ENERGY CODE ADOPTED BY THE LOCAL JURISDICTION.
8. PROVIDE THE BUILDING OWNER AND OPERATIONS STAFF A MINIMUM OF 8 HOURS OF LIGHTING CONTROL SYSTEM OPERATION AND PROGRAMMING TRAINING PRIOR TO PROJECT COMPLETION.

LIGHTING CONTROL PANEL REQUIREMENTS (APPLIES TO ALL SHEETS):

1. PROVIDE A LIGHTING CONTROL PANEL FOR ALL LIGHTING CONTROL ZONES AS IDENTIFIED ON PLANS AND AS DESIGNATED IN PANEL SCHEDULES.
2. LIGHTING CONTROL PANEL CHARACTERISTICS:
   A. THE LIGHTING CONTROL PANEL SHALL BE PROVIDED WITH 0-10V DIMMING, LINE VOLTAGE DIMMING, AND OTHER DIMMING TECHNOLOGY CAPABILITIES TO BE COMPATIBLE WITH ALL LIGHT FIXTURES SERVED BY THE LIGHTING CONTROL PANEL. IT IS INTENDED THAT ALL LIGHT FIXTURES SERVED BY THE LIGHTING CONTROL PANEL ARE DIMMABLE AND CAN BE PROGRAMMED TO MEET IECC 2021 REQUIREMENTS. PROVIDE 0-10V LEADS AS REQUIRED FROM THE LIGHTING CONTROL PANEL TO 0-10V DIMMING FIXTURES AS REQUIRED.
   B. PROVIDE WITH PHOTOCELL TO AUTOMATICALLY SHUT OFF EXTERIOR SITE LIGHTING ZONES WHEN SUFFICIENT DAYLIGHT IS PRESENT.
   C. PROVIDE WITH MANUAL OVERRIDE CAPABILITIES FOR EACH CONTROL ZONE SERVED BY THE LIGHTING CONTROL PANEL.
   D. THE LIGHTING CONTROL PANEL SHALL BE CAPABLE OF BEING PROGRAMMED FOR 7 DAYS AND CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK. IT SHALL INCORPORATE AN AUTOMATIC HOLIDAY SETBACK FEATURE, AND SHALL HAVE PROGRAM BACKUP CAPADILITIES THAT PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS UPON POWER INTERRUPTION.
   E. THE LIGHTING CONTROL PANEL SHALL BE CAPABLE OF COMMUNICATING OVER THE NETWORK AND COORDINATING WITH A REMOTE LIGHTING CONTROL PANEL FOR OFF-SITE REMOTE LIGHTING CONTROL PANEL FOR OFF-SITE REMOTE CONTROL AND MONITORING.

FIRE ALARM SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
FACP	FIRE ALARM SYSTEM CONTROL PANEL
VEP	FIRE ALARM SYSTEM VOICE EVACUATION PANEL
ANNC	FIRE ALARM SYSTEM ANNUNCIATOR PANEL
F	FIRE ALARM SYSTEM MANUAL PULL STATION
F	FIRE ALARM SYSTEM AUDIBLE/VISUAL NOTIFICATION APPLIANCE, AUDIBLE SIGNAL SHALL BE PROVIDED TO MATCH THE REQUIRE FIRE ALARM OR VOICE EVACUATION SYSTEM
V	FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE
LF	FIRE ALARM SYSTEM LOW FREQUENCY SOUNDER
W	WATERFLOW SWITCH
SP	FIRE SPRINKLER SUPERVISORY/TAMPER SWITCH
H	DOOR HOLD DEVICE, RELEASE BY FIRE ALARM SYSTEM ACTIVATION, PROVIDE 120V POWER AND FIRE ALARM RELAY MODULES AS REQUIRED BY THE SPECIFIED DEVICE
I	120V SMOKE ALARM, PROVIDE MULTIPLE-STATION SMOKE ALARMS WHEN MULTIPLE ARE DEPICTED IN A SINGLE DWELLING UNIT, MULTIPLE-STATION SMOKE ALARMS SHALL BE INTERCONNECTED FOR SIMULTANEOUS ACTIVATION
I CO	120V SMOKE AND CARBON MONOXIDE COMBINATION ALARM, PROVIDE MULTIPLE-STATION SMOKE ALARMS WHEN MULTIPLE ARE DEPICTED IN A SINGLE DWELLING UNIT, MULTIPLE-STATION SMOKE ALARMS SHALL BE INTERCONNECTED FOR SIMULTANEOUS ACTIVATION
CO	120V CARBON MONOXIDE ALARM, PROVIDE MULTIPLE-STATION CO ALARMS WHEN MULTIPLE ARE DEPICTED IN A SINGLE DWELLING UNIT, MULTIPLE-STATION CO ALARMS SHALL BE INTERCONNECTED FOR SIMULTANEOUS ACTIVATION
SD	FIRE ALARM SYSTEM SMOKE DETECTOR
SD LF	FIRE ALARM SYSTEM SMOKE DETECTOR WITH LOW FREQUENCY SOUNDER BASE
SD D	DUCT MOUNTED SMOKE DETECTOR
H	FIRE ALARM SYSTEM HEAT DETECTOR

FIRE ALARM GENERAL NOTES:

1. THE FIRE ALARM SYSTEM FOR THIS BUILDING SHALL BE AUTOMATICALLY ACTIVATED BY THE SPRINKLER SYSTEM AND ANY SMOKE DETECTORS SHOWN, IN ADDITION TO MANUAL ACTIVATION BY PULL STATIONS.
2. THE FIRE ALARM SYSTEM FOR THIS BUILDING SHALL BE A VOICE EVACUATION SYSTEM WITH A VOICE EVACUATION PANEL AND AUDIBLE SPEAKER NOTIFICATION APPLIANCES FOR RECORDED AND LIVE EVACUATION INSTRUCTIONS.
3. PROVIDE FIRE SPRINKLER SUPERVISORY/TAMPER SWITCHES AT ALL LOCATIONS AS REQUIRED BY THE DELEGATED DESIGN SPRINKLER SYSTEM. NOT ALL OF THESE LOCATIONS ARE DEPICTED ON THE FIRE ALARM DRAWINGS.

VOICE EVACUATION FIRE DETECTION AND ALARM REQUIREMENTS:

THE DEVICE LOCATIONS AND QUANTITIES SHOWN ON THE DRAWINGS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. SEE THE PROJECT SPECIFICATIONS FOR A COMPLETE DESCRIPTION AND LOCATION OF REQUIRED NOTIFICATION AND INITIATION APPLIANCES. ADDITIONAL CODE REQUIRED DEVICES SHALL BE INCLUDED IN THE PROJECT BID AS DETERMINED BY THE CERTIFIED FIRE ALARM PLANNING SUPERINTENDENT.

FIRE ALARM DESIGN PLANS SHALL BE SUBMITTED TO AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO INSTALLATION AND THE INSTALLATION MUST BE APPROVED BEFORE THE CERTIFICATE OF OCCUPANCY MAY BE ISSUED.

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL III IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, NFPA 72, NFPA 101, IBC 2015 EDITION, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

ELECTRICAL GENERAL NOTES:
(NOTES APPLY TO ALL SHEETS)

1. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE INDICATED.
2. MOUNT ALL RECEPTACLES AT 18" ABOVE FINISHED FLOOR TO CENTER OF THE COVER PLATE UNLESS OTHERWISE INDICATED.
3. FOR OUTLETS REQUIRING GFCI PROTECTION WHERE THE RECEPTACLE IS CONCEALED SUCH AS IN THE CASE OF A WATER FOUNTAIN OR VENDING MACHINE INSTALLATION, THE CONTRACTOR SHALL PROVIDE A STANDARD RECEPTACLE WITH GFCI CIRCUIT BREAKER IN THE ASSOCIATED PANEL. BLANK FACE GFCI TEST/RESET BUTTONS ARE NOT PERMITTED UNLESS EXPLICITLY LOCATED ON THESE DRAWINGS.
4. FURNISH AND INSTALL ALL EXTERIOR RECEPTACLES WITH WEATHERPROOF COVERS. EXTERIOR RECEPTACLES SHALL BE GFCI TYPE.
5. FOR ALL EXTERIOR ELECTRICAL EQUIPMENT, FURNISH AND INSTALL WITH NEMA 3R ENCLOSURES MINIMUM. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THIS REQUIREMENT AND INFORMATION LOCATED ELSEWHERE IN THE ELECTRICAL DOCUMENTS, THE CONTRACTOR SHALL BID ACCORDING TO THE MOST STRINGENT REQUIREMENT.
6. IN KITCHENS, BREAK ROOMS AND SIMILAR SPACES, THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DOCUMENTS AND LOCATE ELECTRICAL DEVICES AT LOCATIONS AND ELEVATIONS TO BEST SERVE EACH DEDICATED APPLIANCE.
7. VERIFY DOOR SWINGS PRIOR TO INSTALLING LIGHT SWITCHES.
8. GANG ALL SWITCHES SHOWN TO BE INSTALLED AT THE SAME LOCATION UNDER A SINGLE COVER PLATE UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO EXIT SIGNS IN CORRIDORS WHERE THERE IS A CHANGE OF CEILING ELEVATION WITH 10-FEET OF THE EXIT SIGN. THE CONTRACTOR SHALL LOCATE THESE EXIT SIGNS SUCH THAT THEY ARE ON THE LOWER CEILING AND VISIBLE THROUGHOUT THE CORRIDOR SEGMENT.
10. COORDINATE WITH OTHER DISCIPLINES IN THE FIELD TO ENSURE THAT THE INTEGRITY OF FIRE RATED CONSTRUCTION IS PRESERVED WHERE PENETRATING RATED WALLS AND FLOORS.
11. THE CONTRACTOR SHALL ROUTE ALL EXPOSED CONDUIT NEATLY AND TIGHT TO SUPPORTING SURFACES. IN THE EVENT THAT THE OWNER IS NOT SATISFIED WITH WORKMANSHIP, THE CONTRACTOR SHALL MAKE CORRECTIONS AT NO ADDITIONAL COST TO THE OWNER. MC CABLE IS NOT PERMITTED IN EXPOSED AREAS.
12. FOR ALL CONDUIT RUNS SHOWN ON ELECTRICAL DRAWINGS, THE ROUTING IS APPROXIMATE. THE CONTRACTOR SHALL MAKE ROUTING ADJUSTMENTS AS REQUIRED BASED ON FIELD CONDITIONS AND COORDINATION WITH OTHER DISCIPLINES.
13. IN THE EVENT THAT THERE IS A DISCREPANCY IN THE MINIMUM CIRCUIT AMPACITY (MCA) AND/OR THE MAXIMUM OVERCURRENT PROTECTION (MOCP) BETWEEN THE DIVISION 26 AND DIVISION 22/23 SCHEDULES, THE CONTRACTOR SHALL BID ACCORDING TO THE MORE STRINGENT REQUIREMENTS.
14. MECHANICAL, PLUMBING, AND OTHER EQUIPMENT FURNISHED AND INSTALLED BY OTHER DIVISIONS IS SHOWN ON ELECTRICAL DRAWINGS FOR CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL REFER TO OTHER DISCIPLINE CONSTRUCTION DOCUMENTS FOR EXACT LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN OF THE ASSOCIATED ELECTRICAL CIRCUITS, DISCONNECTING MEANS, OUTLETS, ETC. AND ADJUST ROUTING AND LOCATIONS ACCORDINGLY.
15. LIGHT FIXTURES, ELECTRICAL OUTLETS AND DISCONNECTING MEANS LOCATED IN MECHANICAL ROOMS AND ATTIC SPACES ARE SHOWN FOR QUANTITY AND CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL LOCATE LIGHT FIXTURES TO BEST ILLUMINATE WALKING AND WORKING SURFACES, AND LOCATE OUTLETS AND DISCONNECTING MEANS SUCH THEY ARE EASILY ACCESSIBLE FOLLOWING THE INSTALLATION OF ALL DEVICES AND EQUIPMENT IN THESE SPACES.
16. ALL MECHANICAL EQUIPMENT SHALL HAVE A RECEPTACLE INSTALLED WITHIN 25-FEET. A SINGLE RECEPTACLE CAN ACCOMPLISH THIS PURPOSE FOR MULTIPLE PIECES OF EQUIPMENT. A RECEPTACLE LOCATED BELOW A LAY-IN CEILING ON THE SAME LEVEL AS A PIECE OF MECHANICAL EQUIPMENT COMPLIES WITH THIS REQUIREMENT. IN THE EVENT THAT FIELD CONDITIONS DICTATE THAT A RECEPTACLE CAN NOT MEET THIS REQUIREMENT FOR ALL OF THE INTENDED PIECES OF EQUIPMENT IN AN AREA ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL RECEPTACLES AS REQUIRED.
17. PROVIDE SYSTEM SMOKE DETECTORS IN THE SUPPLY AND RETURN DUCTS OF AIR HANDLING UNITS GREATER THAN 2000 CFM. REFER TO DIVISION 23 SCHEDULES FOR UNITS MEETING THIS REQUIREMENT.
18. FOR EACH SMOKE DAMPER OR COMBINATION SMOKE/FIRE DAMPER, PROVIDE A SYSTEM SMOKE DETECTOR AND LOCATE AS REQUIRED. WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SYSTEM SMOKE DETECTOR SHALL BE INSTALLED WITHIN 5' OF THE DAMPER AND LOCATED SUCH THAT THERE ARE NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND DAMPER. WHERE A SMOKE DAMPER IS INSTALLED WITHIN AN UNDUCTED OPENING IN A WALL, A SYSTEM SMOKE DETECTOR SHALL BE INSTALLED WITHIN 5' HORIZONTALLY OF THE DAMPER. WHERE A SMOKE DAMPER IS INSTALLED IN A CEILING, A SYSTEM SMOKE DETECTOR SHALL BE INSTALLED ON THE CEILING WITH 5' OF THE DAMPER.

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/15/2026	PERMIT SET

REVISIONS

STATE OF LOUISIANA
JOHN PALERMO
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01/15/2026

WDG Project No: 2024002

SHEET NAME
ELECTRICAL SCHEDULES

SHEET NO. E401

TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
'# ▼	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
V# ▽	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W ▼	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B ▽	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D# ▼	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
#'	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#': NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR '#	ACCESS CONTROL CARD READER. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS *#	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4.
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4.
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
RFID	VEHICLE RFID TAG READER.		FIELD COORDINATE RACEWAYS AND BACK BOXES	PROVIDE NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL VEHICLE ENTRY POINT

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNTED INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
S2	CEILING MOUNTED INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
S3	WALL MOUNTED INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S4	WALL MOUNTED EXTERIOR INTERCOM SPEAKER	+10' AFF UNO	CONTRACTOR PROVIDED	
# IP	IP BASED SPEAKER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C2	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
W	2-SENSOR CAMERA W: INDICATES WALLMOUNTED CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
W	1-SENSOR CAMERA W: INDICATES WALLMOUNTED CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
VRS	VIDEO RECORDING SERVER			NOTE #5
#MU	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

AUDIO/VIDEO LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP ▽	WALL MOUNTED PROJECTOR AV OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR AV OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
AV-1 ▽	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VIDEO OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VIDEO OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD ▽	INTERACTIVE VIDEO DISPLAY AUDIO/VIDEO OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP ▽	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

LOCAL SOUND SYSTEM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
LS	LOCAL SOUND SYSTEM SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
AI	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
H	HANGING MICROPHONE	CEILING MOUNT	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
SUB	SUBWOOFER	CEILING MOUNT UNO		

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
M	CEILING MOUNTED MOTION DETECTOR	CEILING		
M	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
•	FIELD COORDINATE ELEVATION
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'RR'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

INTERCOM GENERAL NOTES

1. THE FOLLOWING AREAS SHALL BE ZONED SEPARATELY:
   1)CAFETERIA - ZONE 1
   2)KITCHEN - ZONE 2
   3)GYMNASIUM - ZONE 3
   4)LIBRARY - ZONE 4
   5)ADMIN - MAIN OFFICE - ZONE 5
   6)EXTERIOR - ZONE 6
   7)CORRIDOR - ZONE PER AREA
   8)RESTROOM - ZONE WITH ASSOCIATED AREAS.
2. CONTRACTOR TO TAP ALL SPEAKERS WITHIN THE GYMNASIUM AND CAFETERIA AT 4 WATTS.
3. CONTRACTOR TO TAP ALL EXTERIOR SPEAKERS AT 7 WATTS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

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PERMIT SET

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01/15/2026	PERMIT SET

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01/15/2026

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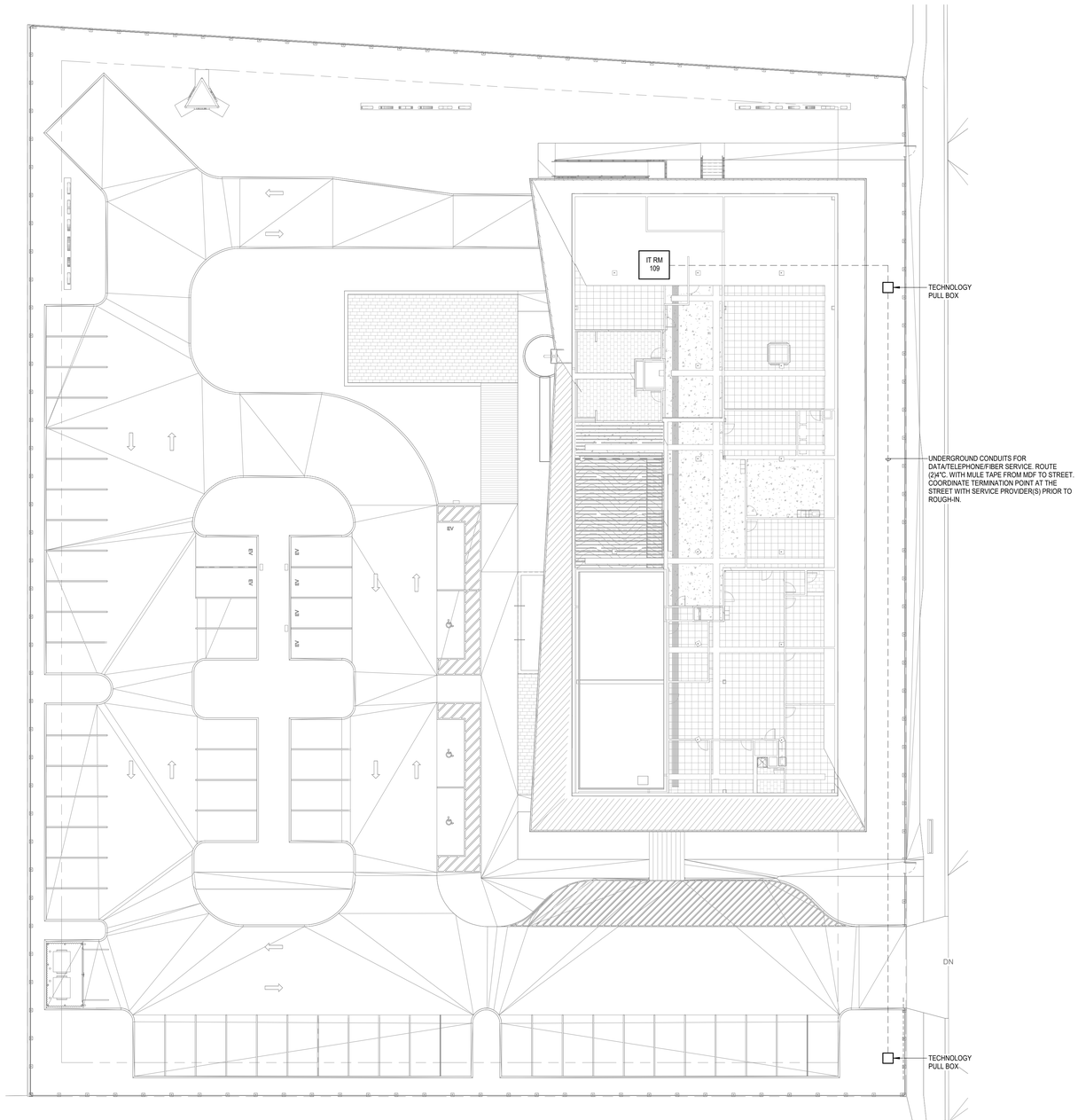
Registration: 0005857
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME

TECHNOLOGY NOTES AND LEGENDS

SHEET NO. T000



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1 **TECHNOLOGY SITE PLAN**
Scale: 1/16" = 1'-0"

TECHNOLOGY GENERAL NOTES:

1. CONTRACTOR TO SEAL BOTH ENDS OF ALL USED AND UNUSED CONDUITS
2. CONDUITS SHALL NOT EXCEED MORE THAN 180 DEGREES IN TOTAL BEND RADIUS AND/OR 250 LINEAR FEET BETWEEN PULL POINTS.
3. CONTRACTOR TO PROVIDE AND INSTALL MAXCELL FABRIC INNERDUCT PACKETS IN ALL SITE CONDUITS, EXCLUDING CONDUITS RESERVED FOR THE SERVICE PROVIDER'S USE. REFERENCE MAXCELL'S CHART AND FURNISH THE MAXIMUM SIZE AND QUANTITY RECOMMENDED BY THE MANUFACTURER. CONTRACTOR TO UTILIZE PULLING SWIVELS FOR INSTALLATION OF ALL MAXCELL INNERDUCTS.
4. CONTRACTOR SHALL PROVIDE A 20' SERVICE LOOP AT EACH PULL POINT AND A 10' SERVICE LOOP AT EACH FINAL TERMINATION END OF ALL CABLES INSTALLED.
5. CONTRACTOR TO UTILIZE INSTALLATION SWIVELS FOR INSTALLATION OF ALL FABRIC INNERDUCT AND ALL CABLE INSTALLED INSIDE FABRIC INNERDUCT.
6. ALL EXTERIOR CONDUITS SHALL BE RATED FOR OUTDOOR, ABOVE GROUND INSTALLATION AND SHALL BE WATER TIGHT. REFERENCE DIVISION 26 SPECIFICATION FOR CONDUIT REQUIREMENTS.
7. CONTRACTOR SHALL SEAL ALL BUILDING PENETRATIONS AS REQUIRED TO ENSURE ALL PENETRATIONS ARE WEATHERPROOF.
8. EXTERIOR CAMERAS TO TERMINATE INSIDE BUILDING, ABOVE CEILING, WITH CONDUIT AND BACK BOX ROUTING OUTSIDE FOR CAMERA. PROVIDE OUTDOOR RATED PATCH CABLES TO CONNECT CAMERA TO DATA OUTLET INSIDE.
9. PROVIDE SURGE PROTECTION FOR ALL EXTERIOR CAMERAS.
10. REFERENCE ELECTRICAL SITE PLAN FOR SERVICE CONDUIT ROUTING, AND ADDITIONAL INFORMATION AND COORDINATION.
11. ALL ENTRANCE CONDUITS SHALL STUB ABOVE THE FINISHED FLOOR AND STUB EVENLY AT +4" AFF. PROVIDE PROTECTIVE BUSHINGS ON ALL CONDUITS AND SEAL ALL USED AND UNUSED UPON COMPLETION OF THE PROJECT.

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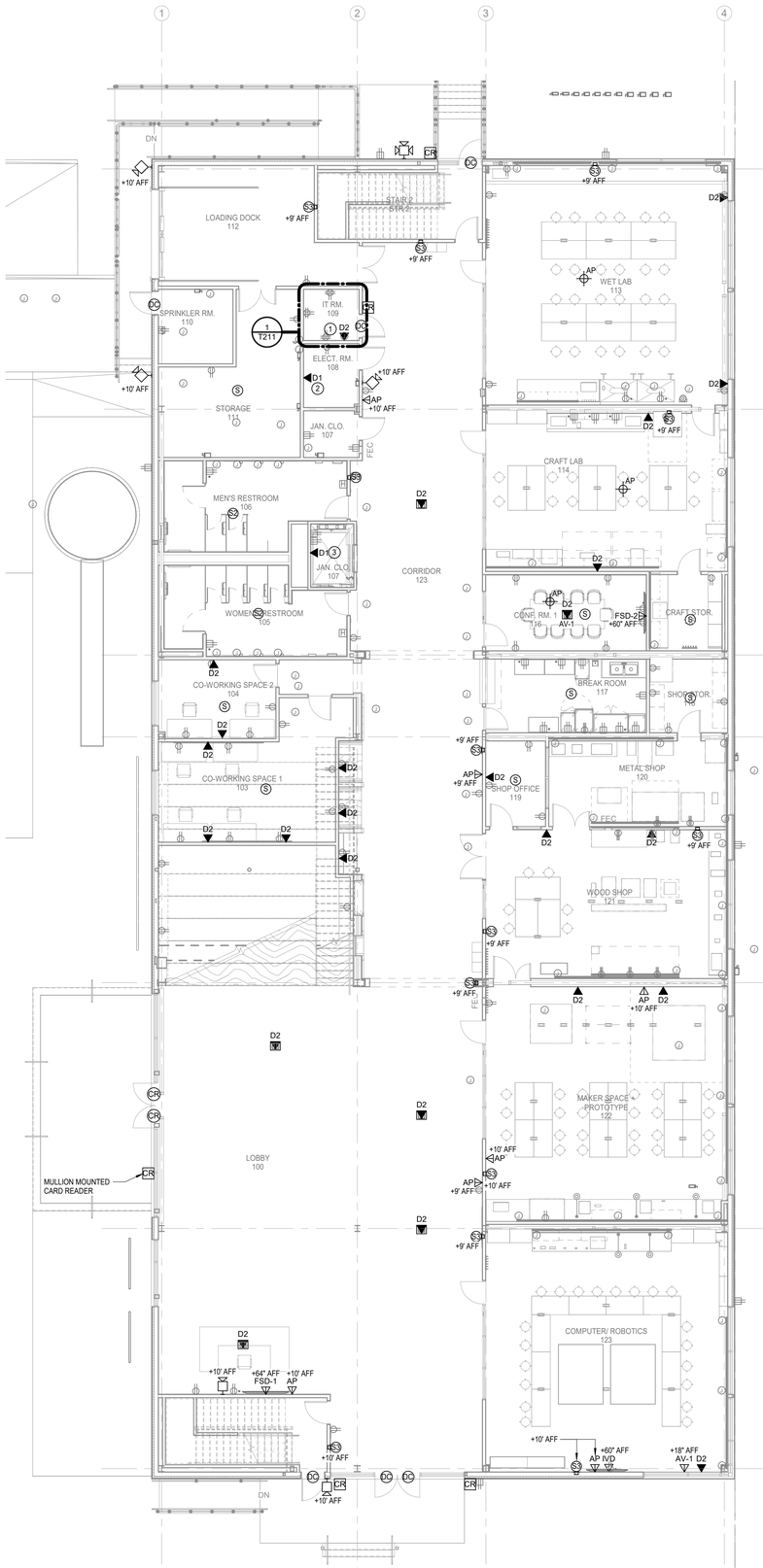
WDG Project No: 2024002

SHEET NAME
TECHNOLOGY SITE PLAN

SHEET NO.
T100



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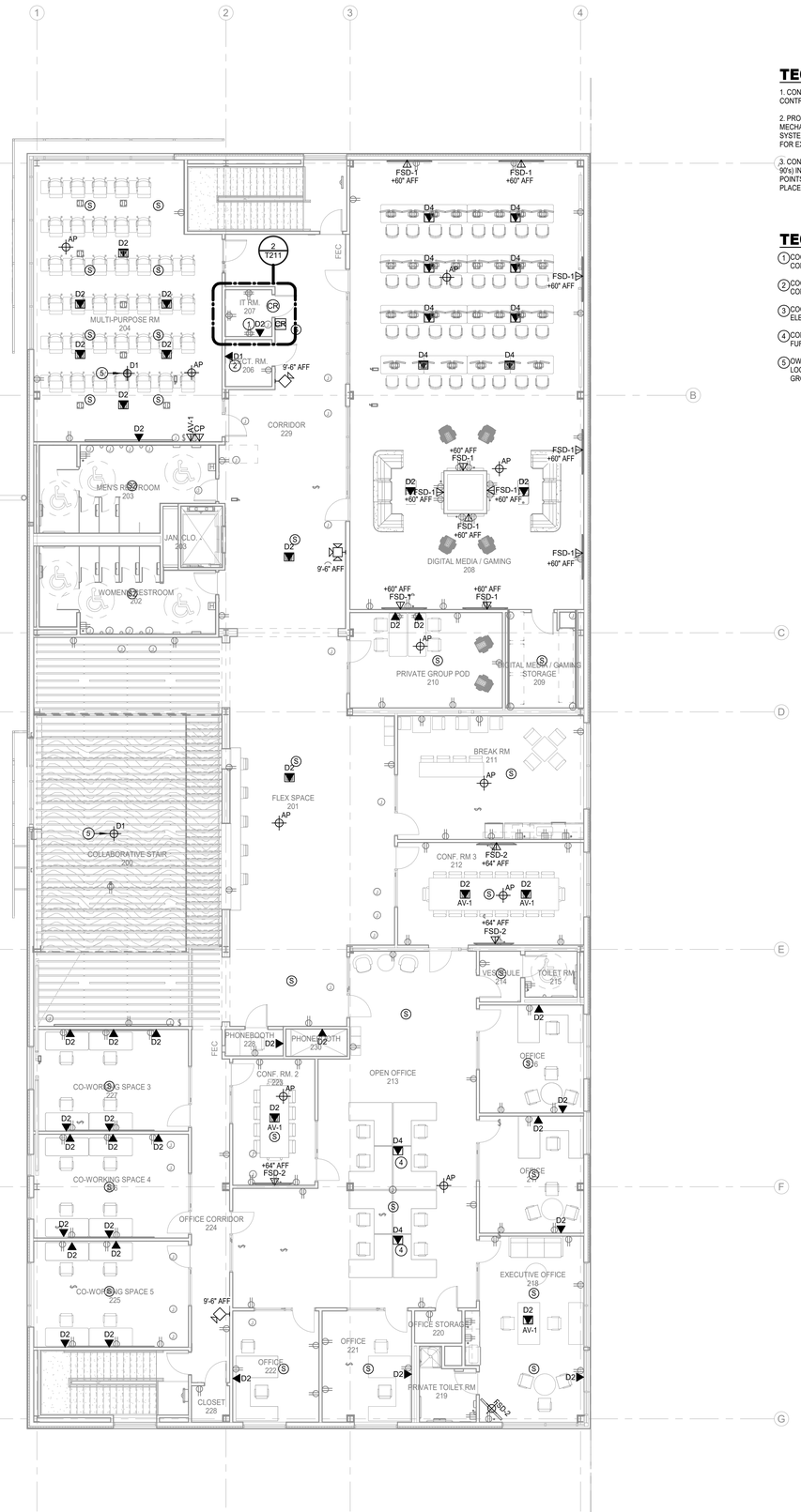
1 FIRST FLOOR TECHNOLOGY PLAN

Scale: 1/8" = 1'-0"



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2 SECOND FLOOR TECHNOLOGY PLAN

Scale: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES:

1. CONTRACTOR TO ROUTE DATA ON FIRST FLOOR TO IT RM 109. CONTRACTOR TO ROUTE DATA ON SECOND FLOOR TO IT RM 207.

2. PROVIDE ONE (1) CATEGORY 6A DATA CIRCUIT TO EACH MECHANICAL ROOM FOR THE BUILDING MANAGEMENT CONTROL SYSTEM AND MDF/ IDF ROOMS. COORDINATE WITH THE CONTRACTOR FOR EXACT LOCATION AND TERMINATION TYPE.

3. CONDUITS SHALL NOT EXCEED MORE THAN 180 DEGREES (OR 2 90's) IN TOTAL BEND RADIUS AND/OR 100 LINEAR FEET BETWEEN PULL POINTS. IF THESE CONDUITS CAN NOT BE MET, A PULLBOX MUST BE PLACED INTO THE RUN.

TECHNOLOGY KEYED NOTES:

1. COORDINATE ACCESS CONTROL PANEL DATA OUTLET WITH SECURITY CONTRACTOR.
2. COORDINATE BAS DATA OUTLET LOCATION WITH ELECTRICAL CONTRACTOR.
3. COORDINATE ELEVATOR VOICE DATA OUTLET LOCATION WITH ELEVATOR CONTRACTOR.
4. CONTRACTOR TO PROVIDE CATEGORY CABLING IN FURNITURE FEED. FURNITURE FEED BY DIV. 26.
5. OWNER PROVIDED CEILING MOUNTED PROJECTOR. VERIFY FINAL LOCATION, MOUNTING HEIGHT AND THROW DISTANCE WITH OWNER IT GROUP.

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WDG Project No: 2024002

SHEET NAME

TECHNOLOGY FLOOR PLANS

SHEET NO. T201

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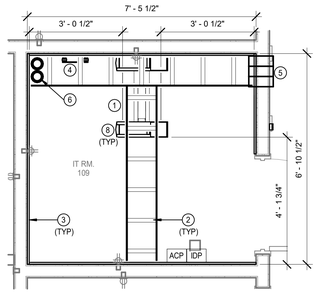
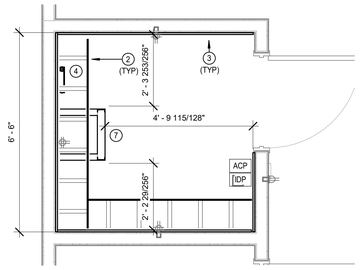


N

1 **ENLARGED PLAN - IT RM. 109**
Scale: 1/2" = 1'-0"



N

2 **ENLARGED PLAN - IT RM. 207**
Scale: 1/2" = 1'-0"

TECHNOLOGY KEYED NOTES:

1. PROVIDE AND INSTALL ONE (1) FLOOR MOUNTED, 2- POST EQUIPMENT RACK (BLACK IN COLOR). PROVIDE BONDING WASHERS, BOLTS, AND NUTS AT ALL MECHANICALLY CONNECTED LOCATIONS OF THE RACK TO ENSURE THAT ALL PIECES OF THE RACK ARE COMPLETELY BONDED. SCRAPING PAINT FROM RACKS TO MAKE A BOND WILL NOT BE ACCEPTED. ALL RACK MOUNTED COMPONENTS SHALL BE MOUNTED WITH BONDING SCREWS AND THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (50) ADDITIONAL BONDING SCREWS FOR THE INSTALLATION OF OWNER EQUIPMENT. NO DAISY CHAINING GROUNDS FROM RACK TO CABLE TRAY OR TO OTHER RACKS WILL BE ACCEPTED. ALL GROUNDS SHALL BE HOME RUN TO THE TELECOMMUNICATIONS GROUND BUS BAR (TGBB). TYPICAL FOR ALL SHOWN ON THE ENTIRE PROJECT.
2. PROVIDE AND INSTALL A 12" WIDE, UNIVERSAL LADDER TRAY AND ALL REQUIRED MOUNTING HARDWARE. LADDER TRAY SHALL BE BLACK IN COLOR. TYPICAL FOR ALL SHOWN ON ENTIRE PROJECT.
3. INDICATES THE LOCATION OF A 8' TALL, 3/4" FIRE RATED PLYWOOD CONTRACTOR TO PROVIDE AND INSTALL PLYWOOD AND ALL REQUIRED MOUNTING HARDWARE. PLYWOOD SHALL BE PAINTED WHITE WITH FIRE RATED PAINT. TYPICAL FOR ALL SHOWN ON DRAWING.
4. INDICATES THE LOCATION OF A NEW WALL MOUNTED TELECOMMUNICATION GROUND BUS BAR (TGBB). CABLING CONTRACTOR TO PROVIDE BUS BAR AND ALL REQUIRED MATERIAL TO MOUNT AT THE LOCATION SHOWN. TGBB TO BE MOUNTED AT +65" A.F.F.
5. (3) 4" FIRE RATED CONDUIT SLEEVE PATHWAY. PROVIDE 12" VERTICAL LADDER TRAY FOR CABLE SUPPORT ON WALL.
6. (2) 4" BACKBONE CONDUITS. STUB BACKBONE CONDUIT INTO ROOM + 4" AFF. PROVIDE BUSHING ON CONDUIT ENDS AND LABEL ENDS WITH DESTINATION. PROVIDE AND INSTALL 12" VERTICAL LADDER TRAY FOR CABLE SUPPORT ON WALL
7. PROVIDE AND INSTALL ONE (1) WALL MOUNTED, EQUIPMENT RACK (BLACK IN COLOR). PROVIDE BONDING WASHERS, BOLTS, AND NUTS AT ALL MECHANICALLY CONNECTED LOCATIONS OF THE RACK TO ENSURE THAT ALL PIECES OF THE RACK ARE COMPLETELY BONDED. SCRAPING PAINT FROM RACKS TO MAKE A BOND WILL NOT BE ACCEPTED. ALL RACK MOUNTED COMPONENTS SHALL BE MOUNTED WITH BONDING SCREWS AND THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (50) ADDITIONAL BONDING SCREWS FOR THE INSTALLATION OF OWNER EQUIPMENT. NO DAISY CHAINING GROUNDS FROM RACK TO CABLE TRAY OR TO OTHER RACKS WILL BE ACCEPTED. ALL GROUNDS SHALL BE HOME RUN TO THE TELECOMMUNICATIONS GROUND BUS BAR (TGBB). TYPICAL FOR ALL SHOWN ON THE ENTIRE PROJECT.
8. PROVIDE AND INSTALL ONE (1) 7'X6", FRONT AND REAR MANAGED, VERTICAL CABLE MANAGER (BLACK IN COLOR). CABLE MANAGERS SHALL BE INSTALLED ON EACH END OF THE RACK SYSTEMS AND BETWEEN EACH RACK. CABLE MANAGERS SHALL HAVE A SINGLE, SOLID, FULL HEIGHT HINGED DOOR IN THE FRONT AND WIDE SPACED CABLE RINGS WITH SPIN-OPEN LATCHES IN THE REAR. TYPICAL FOR ALL SHOWN IN THE ENTIRE PROJECT.

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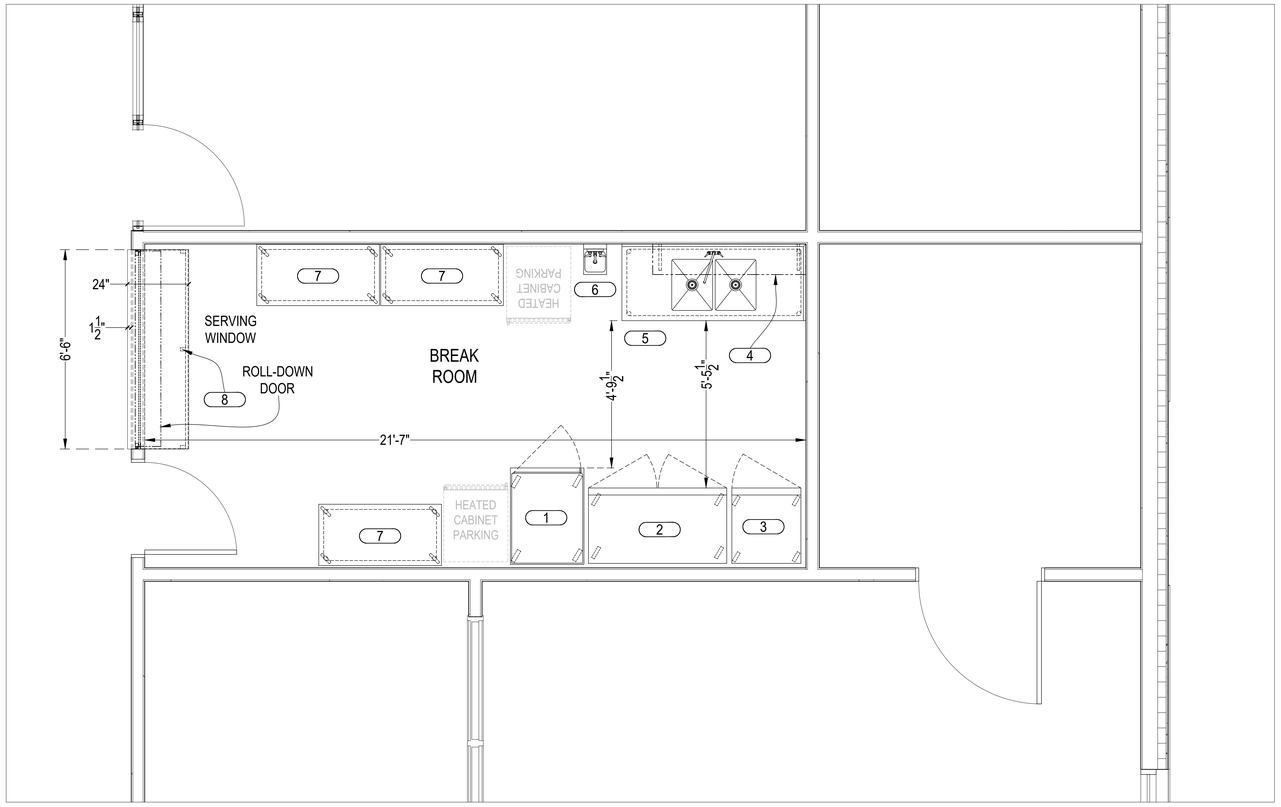
WDG Project No: 2024002

SHEET NAME

TECHNOLOGY ENLARGED PLANS

SHEET NO. T211

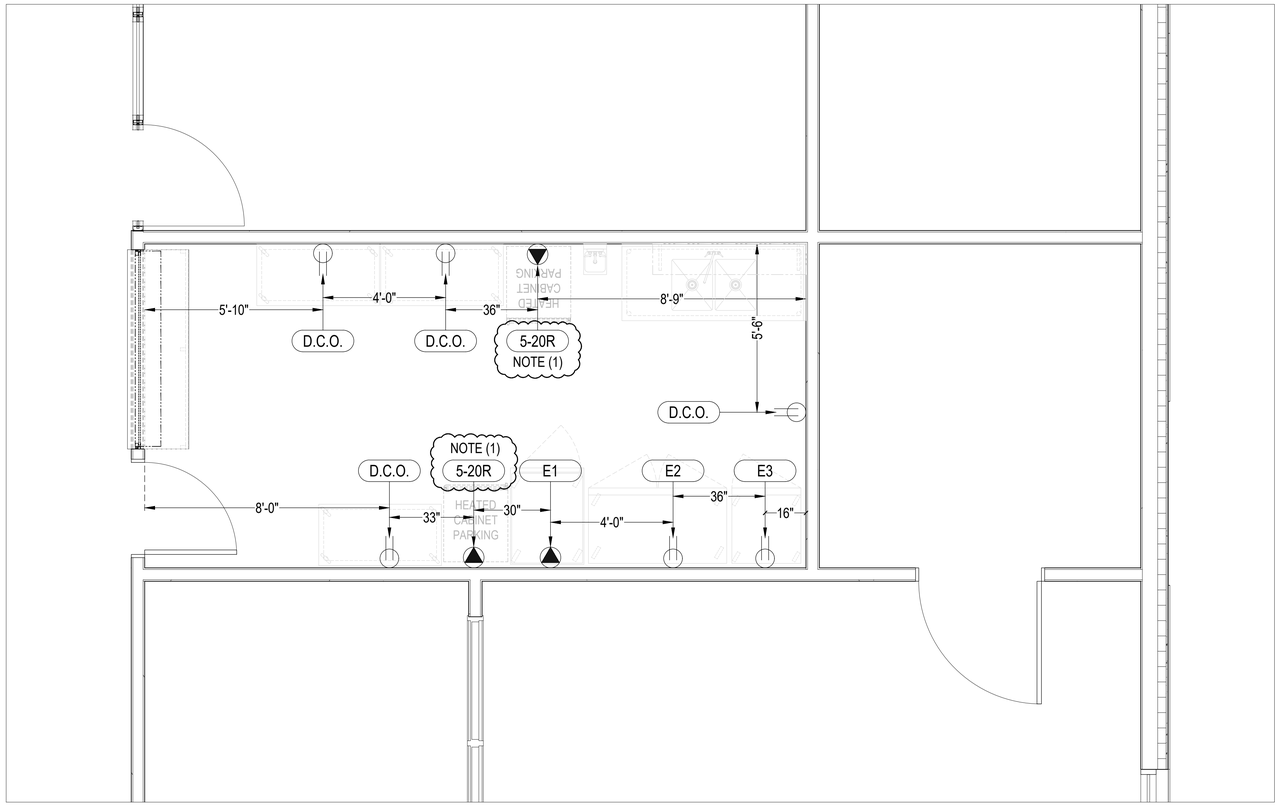


1 K100 FOODSERVICE FLOOR PLAN

1/2" = 1'-0"

EQUIPMENT SCHEDULE

Item No	Qty	Equipment Description	Manufacturer	Model Number	Equipment Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	Hot Holding & Heating
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	–
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	–
4	1	12" x 60" S/S Wall Shelf	Advance Tabco	WS-12-60-16	–
5	1	6' x 30" S/S Table with Sinks	Advance Tabco	KMS-306	–
6	1	Wall Mount Hand Sink	Krowne	HS-19	"Space Saver" w/Side Splashes
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	Modify to 78" x 17"



2 K100 FOODSERVICE ELECTRICAL PLAN

1/2" = 1'-0"

ELECTRICAL SCHEDULE

Item No	Qty	Equipment Description	Manufacturer	Model Number	Amps	KW	HP	Volts	Phase	Cycle	Hardwire	Conn. Cord/Plug	NEMA Plug No.	Electrical A.F.F. (in)	Elec Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	33.4	12.0	–	208	3	60	–	X	15-50P	60	(E1)
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	5.4	–	1/2	120	1	60	–	X	5-15P	48	(E2)
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	3.7	–	1/2	115	1	60	–	X	5-15P	48	(E3)
4	1	12" x 60" S/S Wall Shelf	Advance Tabco	WS-12-60-16	–	–	–	–	–	–	–	–	–	–	–
5	1	6' x 30" S/S Table with Sinks	Advance Tabco	KMS-306	–	–	–	–	–	–	–	–	–	–	–
6	1	Wall Mount Hand Sink	Krowne	HS-19	–	–	–	–	–	–	–	–	–	–	–
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–	–	–	–	–	–	–	–	–	–	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	–	–	–	–	–	–	–	–	–	–	–

D.C.O. / = NEMA #5-15R DUPLEX CONVENIENCE OUTLET (120-V/1-Ø/60-HZ), LOCATED 48" A.F.F. UNLESS OTHERWISE NOTED

NOTE (1): DEDICATED 120-V/20A CIRCUITS WITH N.E.M.A. 5-20R RECEPTACLES AT 48" A.F.F.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	ELECTRICAL CONNECTION (HARDWIRED)
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
J	JUNCTION BOX
	LIGHT SWITCH
	LIGHT
	DISCONNECT BOX

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NOT FOR CONSTRUCTION

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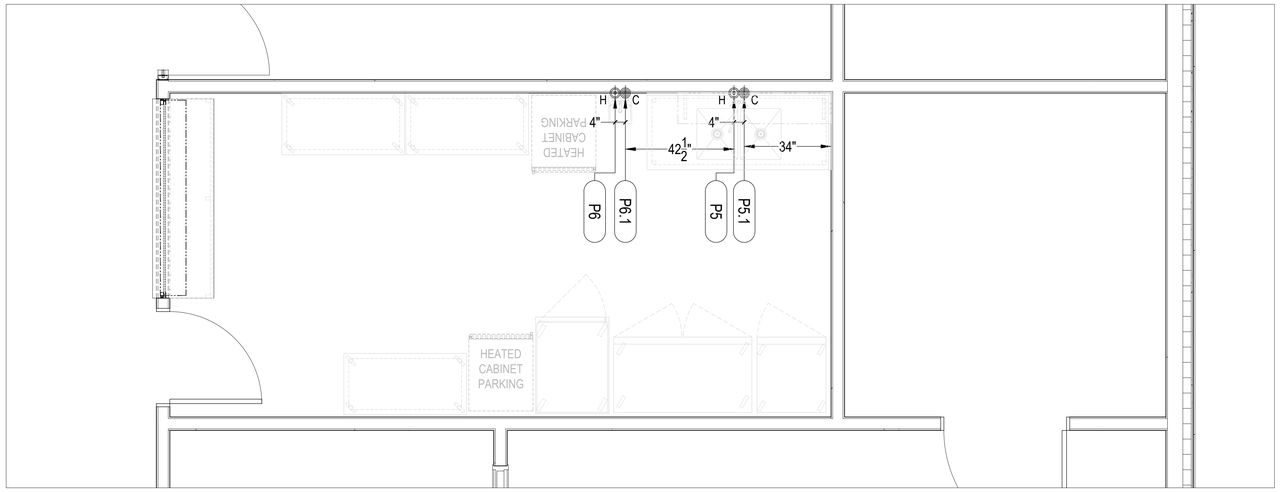
WDG Project No: 2024002

SHEET NAME

FOODSERVICE FLOOR PLAN & ELECTRICAL PLAN

SHEET NO. K100



1 K101 FOODSERVICE PLUMBING PLAN

1/2" = 1'-0"

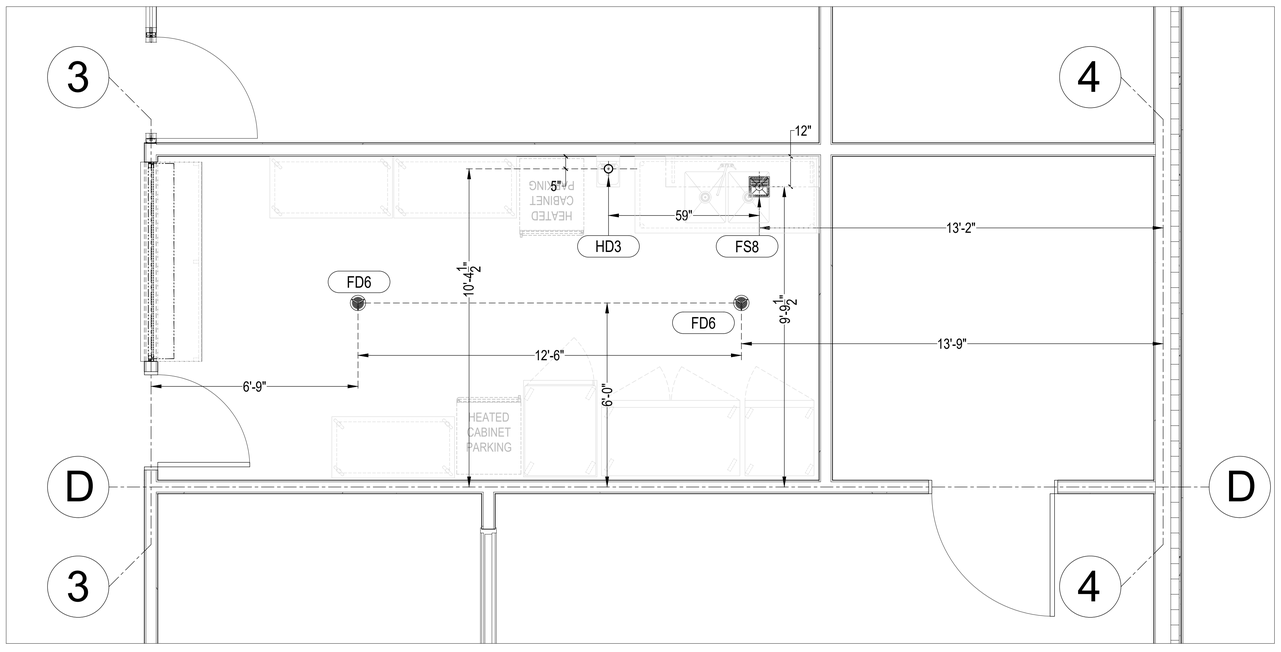
PLUMBING SCHEDULE

Item No	Qty	Equipment Category	Manufacturer	Model Number	Cold Water Size (in)	Cold Water AFF (in)	Hot Water Size (in)	Hot Water AFF (in)	Plumbing Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	–	–	–	–	–
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	–	–	–	–	–
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	–	–	–	–	–
4	1	12" x 60" S/S Wall Shelf	Advance Tabco	WS-12-60-16	–	–	–	–	–
5	1	6' x 30" S/S Table with Sinks	Advance Tabco	KMS-306	1/2	12	1/2	12	(P5) HOT, (P5.1) COLD
6	1	Wall Mount Hand Sink	Krowne	HS-19	1/2	12	1/2	12	(P6) HOT, (P6.1) COLD
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–	–	–	–	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	–	–	–	–	–

NOTE: ALL CONNECTION POINTS TO BE SUPPLIED WITH RIGHT ANGLE STOPS AT HEIGHT ABOVE FINISHED FLOOR, PLUMBED TO RESPECTIVE FIXTURES UNLESS OTHERWISE NOTED

PLUMBING & MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	HOT WATER
	COLD WATER
	HUB DRAIN
	DIRECT WASTE CONN.
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	FLOOR SINK



2 K101 FOODSERVICE DRAINAGE PLAN

1/2" = 1'-0"

DRAINAGE SCHEDULE

Item No	Qty	Equipment Category	Manufacturer	Model Number	Direct Drain Size (in)	Indir Drain Size (in)	Direct Drain AFF (in)	Plumbing Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	–	–	–	–
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	–	–	–	–
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	–	–	–	–
4	1	12" x 60" S/S Wall Shelf	Advance Tabco	WS-12-60-16	–	–	–	–
5	1	6' x 30" S/S Table with Sinks	Advance Tabco	KMS-306	–	1 1/2	–	(FS8)
6	1	Wall Mount Hand Sink	Krowne	HS-19	–	1 1/2	–	(HD3)
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–	–	–	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	–	–	–	–

HD3 = 3" OPEN SITE "HUB" DRAIN

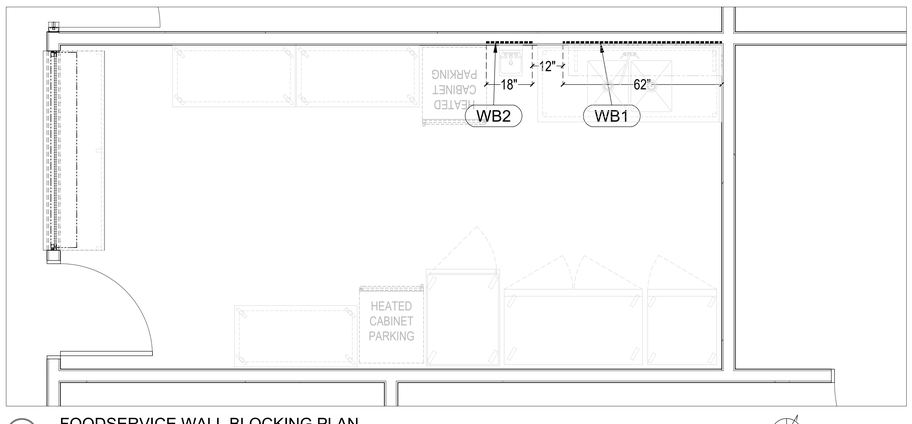
FS8 = 8" SQUARE FLOOR SINK WITH REMOVABLE BASKET & (1/2) GRATE TOP

FD6 = 6" FLOOR GRATE DRAIN (FOR GENERAL DRAINAGE AND CLEANUP)

NOTE: ALL DRAINS FROM FIXTURES EXCEPT WALL DRAINS FOR HAND SINKS AND DIRECT DRAINS ON FLOOR TROUGHS AND MOP SINK MARKED "INDIRECT" MUST BE AIR-GAPPED TO MEET HEALTH CODES.

PLUMBING & MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	HOT WATER
	COLD WATER
	HUB DRAIN
	DIRECT WASTE CONN.
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	FLOOR SINK



3 K101 FOODSERVICE WALL BLOCKING PLAN

1/2" = 1'-0"

WALL BLOCKING SCHEDULE

WB1	= WALL BLOCKING FROM 48" TO 72" A.F.F. FOR WALL SHELVING
WB2	= WALL BLOCKING FROM 30" TO 60" A.F.F. FOR HAND WASH SINK & ACCESSORIES

NOTE: ALL WALL BLOCKING TO BE MINIMUM 3/4" THICK PLYWOOD OR DIMENSIONAL LUMBER BETWEEN STUDS AND BEHIND DRYWALL BOARD

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/16/2025	50% CD SET
01/19/2026	PERMIT SET

REVISIONS

NOT FOR CONSTRUCTION

Foodservice Design By:
Moynan Consulting, LLC
Foodservice Facility Design & Planning
Mandeville-New Orleans, Louisiana
Office: (985) 674-5710
Cell: (985) 264-8121
www.moynanconsulting.com

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WDG Project No: 2024002

SHEET NAME

FOODSERVICE PLUMBING, DRAINAGE & WALL BLOCKING PLAN

SHEET NO. K101

June 9, 2026

Domonique Scott
Building Plan Reviewer
Department of Safety and Permits
1340 Poydras Street Suite 800
New Orleans, LA 70112

Re: Permit# 26-02519-NEWC
STEM NOLA – STEM Innovation Center
6800 Plaza Drive

Dear Ms. Scott,

I'm following up regarding the status of the permit. I've previously uploaded documents in response to comments received. I also haven't yet received any review comments on the stormwater design, mechanical or electrical. Can you provide comments ASAP so that we may prepare our response? Please see responses below to current review comments.

Permit Intake - Please UPLOAD a Detailed Cost Estimate that includes an itemized breakdown of all costs (materials and labor) for plumbing, mechanical and/or electrical, finish work, etc. The itemized estimate need to include the total and match the project contract amount. Signature(s), printed name(s), title(s), and date, of both PROPERTY OWNER and CONTRACTOR are required on project estimate.

Response: Will be provided by general contractor once a contract has been executed.

Permit Intake - State Fire Marshal report and inspection is required. See contact information: Office Phone: (504) 568-8506 Toll Free Number: (800) 256-5452 1450 Poydras St, Suite 1500 New Orleans, LA 70112 WEBSITE: https://sfm.dps.louisiana.gov/insp_scheduling.htm

Response: Uploaded to One Stop on 3/23/26.

Zoning - This property is located in a CT Corridor Transformation design overlay district requiring your submittal of a design review application for site plan review by the staff of the City Planning Commission. Contact City Planning for more information on submitting the application at cpcinfo@nola.gov or 504-658-7033. The application is available at https://www.nola.gov/onestop/building/planning-project/design-review/

Response: Completed application uploaded on 3/23/26. Will submit separately to CPC if that is required.

Zoning - Section 23.3 of the CZO requires a Landscape plan be submitted for review. http://czo.nola.gov/Article-23

Response: A landscape plan was included in the drawings that were uploaded on 1/26/26. A revise Landscape Plan has been uploaded with today's date.

Zoning - In the Commercial zoning districts, Article 15.3.B (http://czo.nola.gov/Article-15#15-3-B) sets the requirements for Building design. Please verify compliance with these requirements. - - Alternatively, if a hardship exists, you may seek a variance from the Board of Zoning Adjustments. Contact CPC for more information at cpcinfo@nola.gov or 504-658-7033. For application materials and approval criteria please see this link: https://nola.gov/variance-request

Response: The building design complies with the stated requirements.

Floodplain Administration: Please provide a construction benchmark certificate, preferably as a separate pdf. Note: if requested documents for Floodplain are uploaded to OneStop, please email floods@nola.gov. Thank you.

Response: A construction benchmark certificate was uploaded on 3/25/26.

DPW Traffic- Please apply for the driveway/curb cut and the sidewalk repair permits, RDRV and RSWR, if proposing to rebuild/repair a driveway apron and sidewalk outside the boundaries of the apron. Please send an email to alfred.terry@nola.gov once the applications are submitted.

Response: An approved DPW site plan was uploaded on 3/25/26.

PLAN REVIEW: This project has been reviewed by Building Plan Reviewer, Dominique Scott. For email correspondence, please send to dominique.scott@nola.gov Note: Please make sure to email the reviewer if you upload any documents on OneStop.

Response: Will comply.

PLAN REVIEW: All written responses to review comments must be on a document with a letterhead, signed, and sealed by the design professional of record, or revisions must be made to the stamped plans. "Will comply" by itself will not suffice to resolve any comment.

Response: This letter is signed & sealed.

PLAN REVIEW: Approval from the State Fire Marshal is required. (Note: SFM now requires the scope on any commercial or multifamily to be cleared through their office. Apply online at http://sfm.dps.louisiana.gov/ or contact SFM's office at 1450 Poydras Street, Suite 1500, New Orleans, LA 70112, Ph. (504) 568-8511 or 8181 Independence Boulevard, Baton Rouge, LA 70806, Ph. (225) 925-4920 / (800) 256-5452.

Response: An approved SFM Plan Review Report was uploaded on 3/23/26.

PLAN REVIEW: Please upload a survey and benchmark from a land surveyor or a civil engineer which shows the location and dimensions of the lot.

Response: A survey was included in the submitted drawings on sheet V001.

PLAN REVIEW: Please submit a signed contract and cost estimate with labor and material breakdown, and a copy of the contractor's license certificate. The estimate or contract should: a) detail all costs including materials, labor, general conditions, contractor overhead and profit; and b) be written on business letterhead, dated, and stating the correct permit number, project address, contractor license number(s) and contact information including phone number

Response: Will be provided by general contractor once a contract has been executed.

PLAN REVIEW- Please confirm compliance with the 2021 International Energy Conservation Code (2021 IECC) and State amendments adopted July 1, 2023. Information on Construction Documents (Sec. C103.2) For new construction, additions or substantial renovation, please provide on the construction documents details (e.g. in table format) including the following information, as applicable: 1. Energy compliance path 2. Insulation materials and their R-values 3. Fenestration U-factors and solar heat gain coefficients (SHGC) 4. Area-weighted U-factor and solar heat gain coefficient (SHGC) calculations 5. Mechanical system design criteria 6. Mechanical and service water heating systems and equipment types, sizes and efficiencies 7. Equipment and system controls 8. Duct sealing, duct and pipe insulation and location 9. Air sealing details Prescriptive Compliance Alternative (Sec. C402-C406) - Building thermal envelope assemblies shall comply with the requirements of Sec. C402 - Building mechanical and HVAC systems shall comply with the requirements of Sec. C403 - Service water heating equipment and insulation of hot water piping insulation shall comply with the requirements of Sec. C404 - Electrical power and lighting systems shall comply with the requirements of Sec. C405 - At least one additional energy efficiency measure complying with Sec. C406.1 shall be incorporated the building design and construction Total Building Performance-Based Compliance Alternative (Sec. C407) - Compliance based on total building performance analysis shall meet the requirements of Table C407.2 - Software tools (e.g. COMcheck) and calculation procedures used for performance design shall be in accordance with Sec. C407.4 (Note: For more information and downloadable COMcheck software, go to https://www.energycodes.gov/software-tools) - Compliance software shall generate a report that complies with Sec. C407.3.1

Response: The building has been design to LEED Certified standard and will be submitted to LEED for certification. An energy model was developed for compliance and the results have been uploaded to One Stop. Please confirm acceptance or if revisions to the format are required.

PLAN REVIEW: New or renovated driveways, sidewalks, and curb cuts (including patches and repairs) require approval from the Department of Public Works (DPW). A site plan indicating the location of the planned improvements must be submitted to DPW. For more information, including

a DPW driveway/curb cut permit application, fee schedule, and sample standard drawing, go to https://nola.gov/driveway-curb-cut-permit/ or contact DPW at trafficreviewdpw@nola.gov or 504-658-8040. (Note: Upon DPW approval, please notify your plan reviewer via email.)

Response: An approved DPW site plan was uploaded on 3/25/26.

PLAN REVIEW: All plan sheets must be stamped by a professional of record, either a Louisiana-licensed architect or civil engineer as per the 2021 IBC, Section R107.1. Please revise.

Response: All sheets required to be stamped have been stamped by a licensed Architect or Engineer.

PLAN REVIEW GLAZING: In windborne debris regions, glazing in buildings shall be impact-resistant or protected with an impact-resistant covering in accordance with 2021 IBC, Section 1609.1.2. Glazed openings located within 30 feet of grade shall meet the requirements of the large missile test of ASTME E 1996 as per 2021 IBC, Sec. 1609.1.2 Glazed openings located more than 30 feet above grade shall meet the requirements of the small missile test of ASTME E 1996 as per 2021 IBC, Sec. 1609.1.2 If debris protection is provided by means of wood structural panels, fastening schedule shall be as per 2021 IBC, Table 1609.1.2 Please verify compliance.

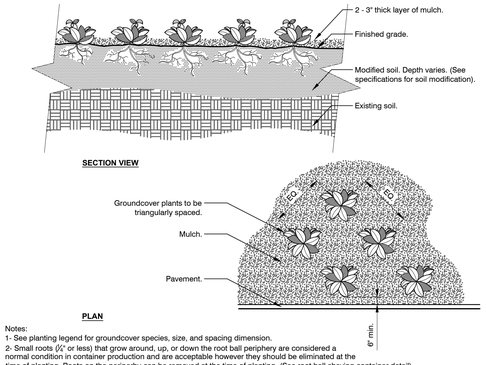
Response: All exterior glazing is specified as hurricane impact resistant glazing systems meeting all applicable design criteria.

PLAN REVIEW: Note, new exterior signs will require a separate permit.

Response: A separate permit will be filed for signage.

Sincerely,

Dominic Willard, Jr., AIA, NCARB
Owner | Principal
Willard Design Group, LLC



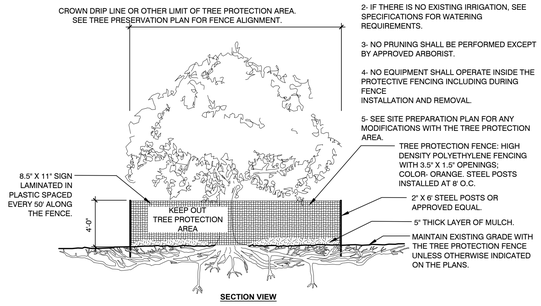
Notes:
1- See planting legend for groundcover species, size, and spacing dimension.
2- Small roots (½" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periperhy can be removed at the time of planting. (See root ball shaving container detail).
3- Settle soil around root ball of each groundcover prior to mulching.

1 GROUNDCOVER

3/4" = 1'-0"

URBAN TREE FOUNDATION © 2014
OPEN SOURCE FREE TO USE

FX-PL-FX-GROU-01



NOTES:
1- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.

2- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.

3- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.

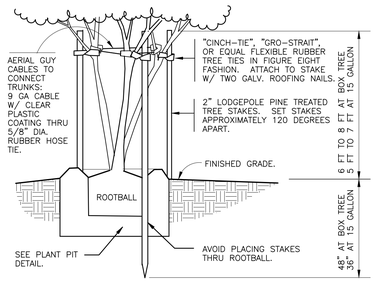
4- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE
INSTALLATION AND REMOVAL.

5- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

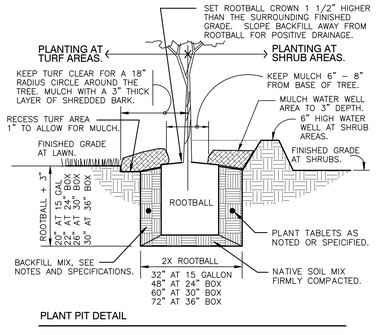
4 TREE PROTECTION

3/16" = 1'-0"

P-ST-09



STAKING DETAIL

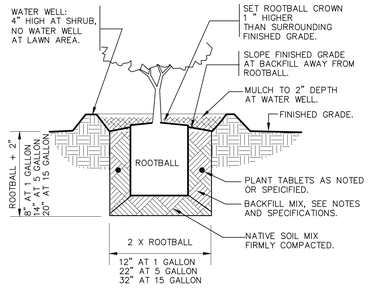


PLANT PIT DETAIL

2 TREE PLANTING MULTI-STAKE

1" = 1'-0"

P-ST-18



3 SHRUB PLANTING

1" = 1'-0"

P-NF-07

PLANTING SPECIFICATIONS:

1. SCOPE OF WORK
A. THE WORK SHALL CONSIST OF PERFORMING, CLEARING, AND SOIL PREPARATION, FINISH GRADING, PLANTING, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.

2. MATERIALS
A. GENERALLY - ALL MATERIALS SHALL BE BEST OF ITS KIND AVAILABLE.
B. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL-DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOUROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF ROOTBALL SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF ANSI Z60 "AMERICAN STANDARD FOR NURSERY STOCK AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
3. SUBSTITUTIONS
A. PRE-BID: IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO MAKE EVERY REASONABLE EFFORT TO FIND THE MATERIAL SPECIFIED BY THE DESIGNER. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR QUALIFYING HIS/HER PROPOSAL TO DOCUMENT ANY PLANT SUITABILITY OR AVAILABILITY PROBLEMS. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A LIST OF PROPOSED PLANT SUBSTITUTIONS IN THE BID RESPONSE FOR THE DESIGNER'S APPROVAL. THE CONTRACTOR SHALL SUBMIT A BASE BID AS PER PLAN PLUS PRICE CLARIFICATIONS FOR ALL RECOMMENDED SUBSTITUTIONS.

B. POST-BID: IF A SUBSTITUTE IS SELECTED, IT MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO AWARD OF CONTRACT. IT IS THE INTENT TO ELIMINATE POST-BID PLANT SUBSTITUTIONS. HOWEVER, IN THE EVENT THAT THE CONTRACT MATERIAL HAS BECOME UNAVAILABLE, AN APPROPRIATE SUBSTITUTION MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.

4. GENERAL WORK PROCEDURES
A. LANDSCAPE WORK SHALL BE ACCORDING TO THE WORKMANLIKE STANDARDS ESTABLISHED FOR LANDSCAPE CONSTRUCTION AND PLANTING
B. WHEN HAZARDOUS MATERIALS ARE KNOWN, ASSUMED, OR SUSPECTED TO EXIST AT THE SITE, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS DEEMED PRUDENT TO COMPLY WITH APPLICABLE LAWS AND REGULATIONS, AND TO REDUCE THE RISKS TO EMPLOYEES, PUBLIC HEALTH, SAFETY AND WELFARE AND THE ENVIRONMENT.

5. ALL PROTECTION AND PRESERVATION MEASURES FOR EXISTING TREES SHALL BE APPROVED BY AN ARBORIST IN-FIELD PRIOR TO COMMENCEMENT OF ANY SITE-DISTURBING ACTIVITY.

6. WEEDING
A. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

7. TOP SOILING
A. CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM THICK TOPSOIL LAYER IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE AS A UNIFORM LAYER TO PRODUCE A SIX INCH (6") COMPACTED THICKNESS. TOPSOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED.
B. TOPSOIL SHALL BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL BE UNIFORM IN COMPOSITION THROUGHOUT, WITH ADMIXTURE OF SUBSOIL. IT SHALL BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS, AND OTHER EXTRANEOUS MATERIAL. TOP SOIL BROUGHT IN SHOULD MATCH AS WELL AS POSSIBLE THE EXISTING SOIL TEXTURE AND PH.

8. SOIL CONDITIONING
A. CULTIVATE ALL AREAS TO BE PLANTED TO A DEPTH OF 8". ALL DEBRIS SUCH AS DRIFTWOOD, CONSTRUCTION DEBRIS, CONCRETE RUBBLE, RUBBISH, ETC. WITHIN THE LIMIT OF DISTURBANCE AND FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. PLANTING MIX SHALL BE SPREAD EVENLY IN ALL PLANTING AREAS AND TILLED IN TWO DIRECTIONS INTO TOP 2" WHEREVER POSSIBLE.

9.FERTILIZATION: SOIL TESTS SHALL BE TAKEN PRIOR TO BED PREPARATION TO DETERMINE ACTUAL SOIL AMENDMENTS AND FERTILIZATION. FOR BIDDING PURPOSES ONLY, ASSUME THE FOLLOWING:
A. SHRUBS AND TREES - ALL TREES AND SHRUBS SHALL BE FERTILIZED WITH "AGRIFORM" 20-15-5 PLANTING TABLETS AT TIME OF INSTALLATION AND PRIOR TO COMPLETION OF PIT BACKFILLING. TABLETS SHALL BE PLACED UNIFORMLY AROUND THE ROOT MASS AT A DEPTH THAT IS BETWEEN THE MIDDLE AND BOTTOM OF THE ROOT MASS.

APPLICATION RATE:

1 GALLON CAN: 1 - 21 GRAM TABLET
3 GALLON CAN: 2 - 21 GRAM TABLETS
5 GALLON CAN: 3 - 21 GRAM TABLETS
7 GALLON CAN: 4 - 21 GRAM TABLETS

TREES: 3 - 21 GRAM TABLETS EACH 1/2" OF CALIPER
PALMS: 7 - 21 GRAM TABLETS

B. GROUNDCOVER AREAS - ALL GROUNDCOVER AREAS SHALL RECEIVE FERTILIZATION WITH "OZMOCOTE" TIME RELEASE FERTILIZER OR APPROVED EQUAL AS PER MANUFACTURER'S SPECIFICATIONS.

10. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.

PLANTING SPECIFICATIONS CONT.:

11. FINISH GRADING
A. ALL AREAS WILL BE RECEIVED BY THE CONTRACTOR AT SUBSTANTIALLY PLUS/MINUS 0.1 OF FINISHED GRADE.
B. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY FROM BUILDING.
C. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATERS.

12. ALL PLANTS SHOWN ON THE APPROVED LANDSCAPE PLAN MUST BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR EQUAL UPON DELIVERY TO SITE.
PLANTS SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASON:

TYPE	DATES
PLANTS	3/15 TO 12/15
LAWNS	3/15 TO 6/15
	9/15 TO 12/1

ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE WRITTEN APPROVAL OF THE ENGINEER OR LANDSCAPE ARCHITECT, PRIOR TO PLANTING, FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTING SPECIFICALLY FOR SOIL STABILIZATION PURPOSES.

A. PLANTING SHALL NOT OCCUR IF THE GROUND IS FROZEN.
B. TUBERS, SPRIGS, BULBS AND RHIZOMES MUST BE TRANSPLANTED BEFORE NEW GROWTH EMERGES. THEREFORE, THEY ARE BEST PLANTED IN THE FALL AFTER DORMANCY, OR BEFORE DORMANCY BREAKS.
C. MOST OF THE SEDGES AND GRASSES ARE BEST PLANTED IMMEDIATELY AFTER DORMANCY BREAKS.
D. GROWING BAREROOT AND FIELD-COLLECTED PLUGS SHALL BE PLANTED DURING THE EARLY GROWING SEASON.

13. PLANTING
A. POSITION PLANTS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE BEFORE PLANTING, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
B. ALL PLANTS SHALL BE SET SO THAT THEY BEAR THE SAME RELATION TO THE REQUIRED GRADE AS THEY BORE TO THE NATURAL GRADE BEFORE BEING TRANSPLANTED.
C. WATER IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACK FILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED.

14. INSOFAR AS IT IS PRACTICAL, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE THE CONTRACTOR SHALL PROTECT THE STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED, UNLESS OWNER AND CONTRACTOR PROVIDE OTHERWISE BY WRITTEN AGREEMENT.

15. NEW PLANTING AREAS AND SOD SHALL BE ADEQUATELY IRRIGATED OR WATERED TO ESTABLISH THE PROPOSED PLANTS AND LAWN.

16. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENT SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.

17. MULCH: USE HARDWOOD MULCH TO A 3" DEPTH BEFORE COMPACTION IN ALL PLANTING AREAS. THOROUGHLY MIX WITH A PRE-EMERGENCE WEED KILLER

18. CLEANUP
A. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
B. ALL PLANTS AND PLANT BEDS SHALL BE MAINTAINED BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH UNTIL FINAL ACCEPTANCE.
C. LAWNS SHALL BE MAINTAINED BY WATERING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH SMOOTH ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

19. SUBMITTALS: SUBMIT THE FOLLOWING TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION:
A. METAL EDGING
B. TOPSOIL
C. MULCH
D. LIMESTONE
E. SOIL TEST RESULTS
F. RECOMMENDED SOIL AMENDMENTS
~~G. IRRIGATION SHOP DRAWINGS~~
~~H. IRRIGATION AS-BUILT DRAWING~~

PLANT COLOR LEGEND

SYMBOL	CODE	BOTANICAL / COMMON NAME	FLOWER	FLOWER ACCENTS	FRUIT	BARK	BARK ACCENTS	CONE	STEMS
TREES									
+	MS	Magnolia virginiana / Sweetbay Magnolia							
•	TD	Taxodium distichum / Bald Cypress							
	VIT SHO	Vitex agnus-castus 'Shoal Creek' / Shoal Creek Chaste Tree							
SHRUB AREAS									
	ASC INC	Asclepias incarnata / Swamp Milkweed							
	CRI AME	Crinum americanum / Swamp Lily							
	ITE VI2	Itea virginica / Virginia Sweetspire							
	JUN EF2	Juncus effusus / Soft Rush							
	MUH PI4	Muhlenbergia capillaris 'Pink Cloud' / Pink Cloud Pink Muhly Grass							

BLOOM SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	EARLY SPRING	MID SPRING	LATE SPRING	EARLY SUMMER	MID SUMMER	LATE SUMMER	EARLY FALL	MID FALL	LATE FALL	EARLY WINTER	MID WINTER	LATE WINTER
TREES														
•	ACE DMM	Acer rubrum drummondii / Drummond Red Maple												
+	MS	Magnolia virginiana / Sweetbay Magnolia												
•	TD	Taxodium distichum / Bald Cypress												
	VIT SHO	Vitex agnus-castus 'Shoal Creek' / Shoal Creek Chaste Tree												
SHRUBS														
	DV	Dianella tasmanica 'Variegata' / Variegated Flax Lily												
	JB	Juncus inflexus 'Blue Arrows' / Blue Arrows Juncus												
	SAB MIN	Sabal minor / Dwarf Palmetto												
SHRUB AREAS														
	ASC INC	Asclepias incarnata / Swamp Milkweed												
	CRI AME	Crinum americanum / Swamp Lily												
	IL	Iris louisiana / Louisiana Iris												
	ITE VI2	Itea virginica / Virginia Sweetspire												
	JUN EF2	Juncus effusus / Soft Rush												
	MUH PI4	Muhlenbergia capillaris 'Pink Cloud' / Pink Cloud Pink Muhly Grass												
	MYR DW2	Myrica pumila / Dwarf Wax Myrtle												
GROUND COVERS														
	CD	Cynodon dactylon / Bermuda Grass												

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

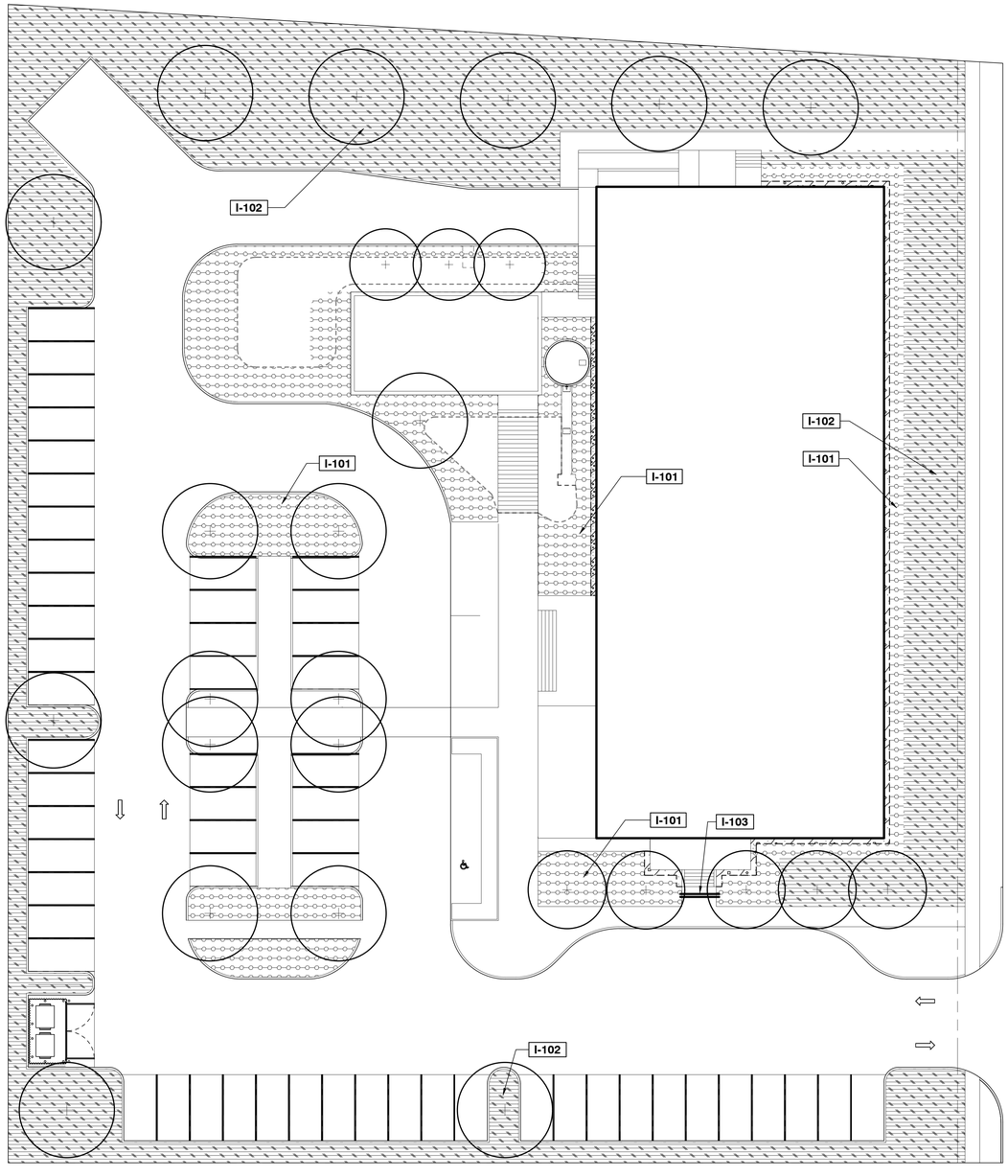
REVISIONS

STATE OF LOUISIANA — Brad Patch — Reg. No. 3542 — LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
PLANTING DETAILS AND SPECIFICATION

SHEET NO. L5.02



A IRRIGATION AREA PLAN
0 16 32 48 feet
SCALE: 1/16" = 1'-0"

NORTH

32 84 00 — PERFORMANCE IRRIGATION (CISTERN-FED, DESIGN–BUILD)
PART 1 — GENERAL

1.1 SUMMARY
A. Design, furnish, and install a complete automatic irrigation system per the Irrigation Area Plan (areas/irrigation types shown diagrammatically).
B. Water source: 8,000-gal vertical HDPE cistern (by 33 43 00). No permanent potable backup. Provide Emergency Hose-Fill with visible air gap.
C. Include: pump set and controls, filtration, mainline/laterals, control valves, heads/drip, controller, sensors, wiring, testing, commissioning, training, record docs.

1.2 DESIGN SUBMITTALS (FOR APPROVAL)
A. Shop Drawings (scale): mains/laterals, valves, heads/drip layout, controller, wire routing.
B. Hydraulics: zone gpm/psi, friction/velocities, pump duty point(s), most-remote station calc.
C. Product data: pump/VFD or pressure set, filters, master valve, flow sensor, controller, rain/freeze, zone valves, heads, dripline/emitters, PR devices.
D. Controls narrative: cistern priority, Low/Low-Low responses, flow-based leak shutoff, weather lockouts.
E. Emergency Hose-Fill detail: hose bib w/ vacuum breaker → funnel/strainer w/ ≥2" air gap, valve/labeling.

1.3 QA / WARRANTY
A. Installer: ≥3 comparable cistern-fed projects. Controls by mfr-trained tech.
B. Warranty: 1-year system labor & materials (pump/controller per mfr, ≥2-yr).

PART 2 — PERFORMANCE & MATERIALS

2.1 SOURCE, PUMPING, FILTRATION (PERFORMANCE)
A. Floating screened intake (≥80-mesh) with isolation valve/union.
B. Pumping to deliver 50 gpm @ 70 psi at most remote valve inlet (include PR/filter losses). Max velocity ≤5 ft/s mains, ≤7 ft/s laterals. Provide VFD or pressure switch + hydro tank to hold set pressure.
C. Filtration: ≥120-mesh disc/screen upstream of zones; gauges in/out; flush capability.
D. Protection/controls: Master valve + flow sensor with high-flow shutoff; rain and freeze (≤37 °F) sensors.

2.2 DISTRIBUTION & EFFICIENCY (PERFORMANCE)
A. Match area plan: rotors (large turf), sprays (small turf/geometry), drip (beds/rain-garden).
B. Pressure regulation: zone-level PR (valve or head) so devices operate in spec window.
C. Coverage/efficiency targets: DU_lq ≥0.70 rotors; ≥0.65 sprays; SC ≤1.7; head-to-head spacing; manage precip rate ≤0.75 in/hr on slopes via cycle/soak.
D. Drip zones: PC dripline 0.6–0.9 gph @ 12"/18" spacing; zone PRV 25–35 psi; auto/manual flush at ends; air/vac relief as needed.

2.3 TREES — LOCALIZED IRRIGATION (REQUIRED)
A. Provide permanent point-source at every new tree (including within sprinklered areas). No watering bags in sprinkler zones; bags allowed only where noted and only Year 1.
B. Performance: 10–15 gal per inch trunk caliper per week in Year 1 (split into 2–3 soakings/wk); slow application without runoff; trunk kept dry.
C. Acceptable systems (select per tree):

PR bubblers on stakes (≈30 psi): e.g., (2) × 0.5 gpm for 2–3" caliper (adjust to caliper).

Drip ring: 1–2 coils PC dripline (0.6–0.9 gph @ 12"/18"), initial radius 18–24", expand Year 2+.

Manifold + emitters: (4–8) PC emitters @ 2 gph on ring outside root ball.
D. Controls: Trees on separate stations where feasible; otherwise provide decoder/sub-station with local PR/filter and independent runtimes. ≥120-mesh filtration upstream of emitters. Provide flush ends and accessible tees for future outlets.

2.4 MATERIAL MINIMUMS
A. Mainline PVC DR-18 / Class 200 (solvent-weld), thrust restraint; laterals PVC Class 160/Sch 40 or HDPE SDR-11/13.5.
B. Remote control valves: electric, pressure-regulated/slow-close, stainless screens.
C. Heads: PRS rotor/spray bodies with check valves where sloped.
D. Valve boxes: polymer/composite, lockable lids, sized for service.
E. Emergency Hose-Fill: ¾" hose bib w/ vacuum breaker to stainless funnel/strainer ≥2" air gap at cistern/headbox; labeled "TEMPORARY FILL ONLY — NO CROSS-CONNECTION."

Basis of Design: Rain Bird ESP-LXME2 or ESP-LXD w/ Flow Manager/Flow Learn; FS-Series flow sensor; PESB-R valves; 5000 Plus PRS-SAM rotors; 1800-PRS30/40 sprays; XF/XFS dripline; DF-Series filter; WR2 rain/freeze.

PART 3 — EXECUTION

3.1 INSTALLATION
A. Install per accepted Shop Drawings. Provide upstream & downstream isolation at serviceable components (pump, filters, master valve). Unions at removables.
B. Trenching/backfill to code; sand bedding; solvent-welds per ASTM; pressure test; thrust blocks/restraints at directional changes.
C. Set valve boxes flush; gravel base; slack in wires; labeled lids.
D. Drip: flush lines before capping; PRV/filters accessible; auto-flush or manual ends.

3.2 CONTROLS & PROGRAMMING
A. Source priority: cistern only; Low tank alarm (reduce schedules), Low-Low lockout (manual reset after refill).
B. Enable master valve + flow sensor leak shutoff; set high-flow thresholds via flow-learn.
C. Enable rain/freeze lockouts; use cycle/soak to prevent runoff.
D. Trees: program runtimes to meet weekly gallons target; provide Year-2 dial-back and add-outlet plan.

3.3 COMMISSIONING & CLOSEOUT
A. Hydrostatic test mains/laterals; flush all zones.
B. Demonstrate pump meets duty point(s) at test gauge; verify PR across zones.
C. Calibrate flow sensor; prove master-valve interlock.
D. Coverage test & adjustments; drip/bubbler flow verification at representative trees.
E. Deliver: as-builts (PDF+CAD), zone map at controller, controller program export, O&M manuals, pump curves; owner training.

IRRIGATION SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY
	I-101	DRIP IRRIGATION AREA	6,213 sf
	I-102	SPRINKLER IRRIGATION AREA	16,805 sf

patch
LANDSCAPE ARCHITECTURE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT

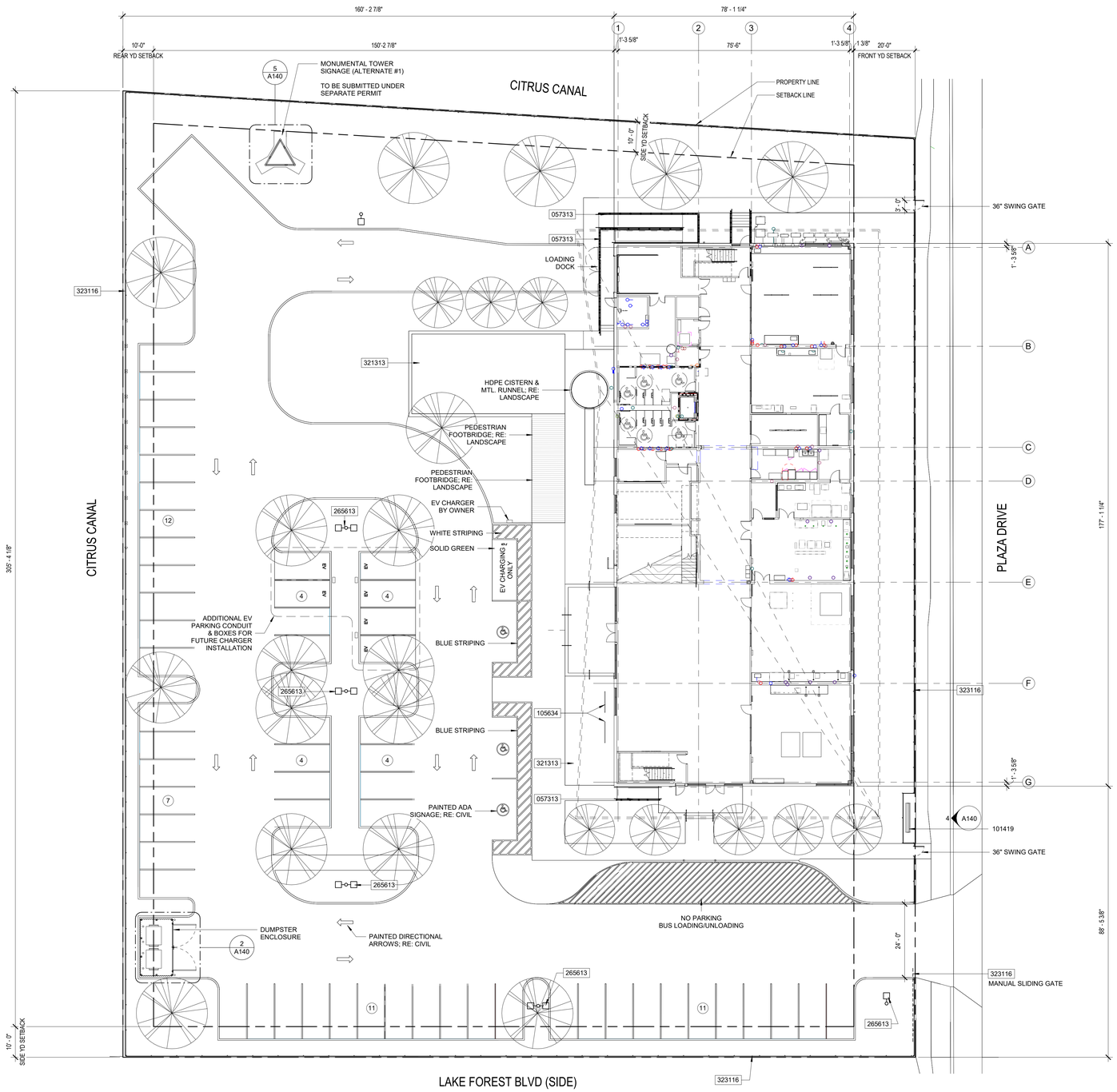
REVISIONS

STATE OF LOUISIANA — Reg. No. 0940 — LICENSED LANDSCAPE ARCHITECT

WDG Project No: 2024002

SHEET NAME
IRRIGATION AREA PLAN

SHEET NO. L6.01



1 A100 SITE PLAN

1/16" = 1'-0"

PROJECT ADDRESS
STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

ZONING CLASSIFICATION
NEW ORLEANS COMPREHENSIVE ZONING ORDINANCE
C-3 HEAVY COMMERCIAL

FUTURE LAND USE
GC – GENERAL COMMERCIAL

BULK AND YARD REGULATIONS
MAXIMUM BUILDING HEIGHT
ALLOWED: 130 & NO MORE THAN 12 FLOORS
PROPOSED: 36' 9" & 2 FLOORS
MINIMUM LOT AREA
REQUIRED: 5,000 SF
PROPOSED: 79,520 SF
MINIMUM PERMEABLE OPEN SPACE
REQUIRED: 20% OF LOT AREA (15904 SF)
PROPOSED: 38,372 SF (48.3%)
FRONT YARD: 20'
INTERIOR SIDE YARD: 10'
BACK YARD: 10'

OFF-STREET VEHICLE & BICYCLE PARKING REQUIREMENTS
MIN. VEHICLE SPACES
REQUIRED: OFFICE: 1 PER 500 SF GFA
= 26,125 / 500
= 52 SPACES
PROPOSED: 61 SPACES
MIN. SHORT-TERM BICYCLE SPACES
REQUIRED: 1 PER 5,000 GFA = 6 SPACES
PROPOSED: 10 SPACES

ELECTRIC VEHICLE CHARGING STATION REQUIREMENTS
PERCENTAGE OF SPACES WITH LEVEL 2 OR LEVEL 3 INSTALLED
REQUIRED: 10% OR 1 SPACE, WHICHEVER IS GREATER
= 52 SPACES x 10%
= 6 SPACES
PROVIDED: 1 SPACE
PERCENTAGE OF SPACES THAT ARE EV CHARGING READY
REQUIRED: 10% OR 1 SPACE, WHICHEVER IS GREATER
= 52 SPACES x 10%
= 6 SPACES
PROVIDED: 6 SPACES

REQUIRED OFF-STREET LOADING SPACES
REQUIRED: 10,000 - 100,000 GFA = 1 SPACE
PROVIDED: 1 SPACE

STORMWATER MANAGEMENT
SEE ATTACHED STORMWATER CALCULATOR BY CIVIL ENGINEER

LANDSCAPE PLANS
SEE ATTACHED LANDSCAPE DRAWINGS

SIGNAGE REQUIREMENTS
FREESTANDING SIGNS
REQUIRED:
MAX. AREA: 44 SF
PERMITTED HEIGHT: 6 FT
PROVIDED: TBD

POLE SIGNS
REQUIRED:
MAX. AREA: 32 SF
PERMITTED HEIGHT: 20 FT
PROVIDED: TBD

BILLBOARDS
1 BILLBOARD EVERY 1,000 LINEAR FT ON EITHER ONE SIDE OF THE ROADWAY OR THE OTHER, BUT NOT BOTH SIDES
MAX AREA: 672 SF OF ADVERTISING SURFACE ON ONE SIDE
PERMITTED HEIGHT: 25 FT
PROVIDED: TBD

GENERAL NOTES

1. VERIFY ALL DIMENSIONS IN FIELD. NOTIFY ARCHITECT OF ANY CONFLICTS WITH EXISTING CONDITIONS OR INTENT IMMEDIATELY UPON DISCOVERY.
2. REFER TO CIVIL, LANDSCAPE & MEP DRAWINGS FOR FULL SCOPE OF SITEWORK, INCLUDING DEMOLITION.

SHEET NOTES

057313	DECORATIVE METAL RAILINGS EXTERIOR
101419	DIMENSIONAL LETTER SIGNAGE
105634	BICYCLE STORAGE RACKS
265613	LIGHTING POLES AND STANDARDS
321313	RIGID PAVEMENT
323116	WELDED WIRE FENCES AND GATES

LEGEND

PROPERTY LINE

SETBACK LINE

(X) PARKING COUNT

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

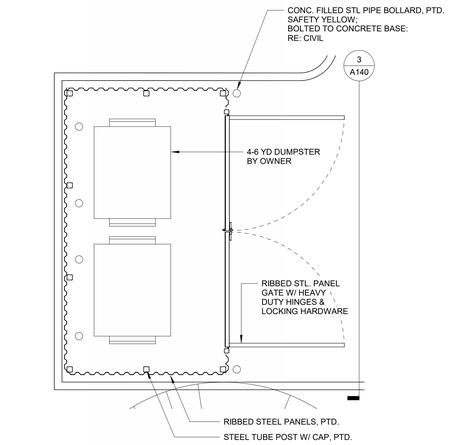
REVISIONS

DOMINIC A. WILLARD, JR. REG. No. 38813 STATE OF LOUISIANA LICENSED ARCHITECT

WDG Project No: 2024002

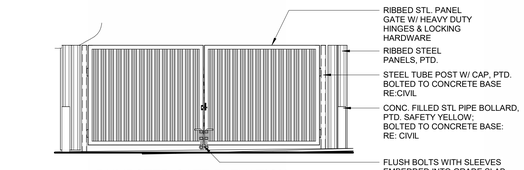
SHEET NAME
SITE PLAN

SHEET NO. A100



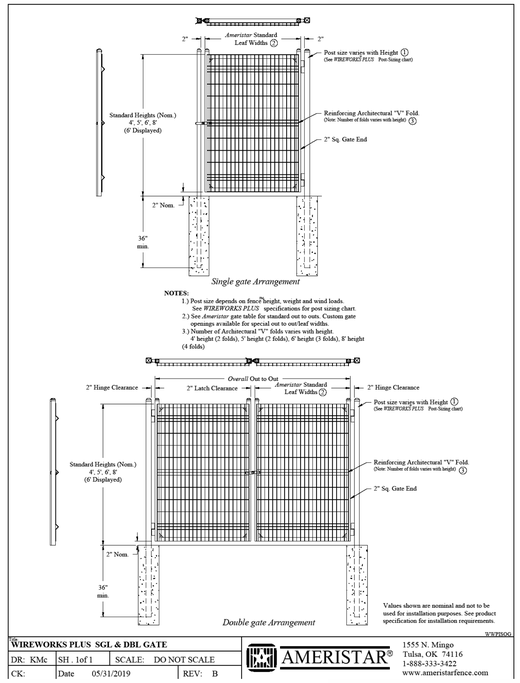
2 A100 A140 ENLARGED PLAN @ DUMPSTER ENCLOSURE

1/4" = 1'-0"



3 A140 A140 DUMPSTER GATE ELEVATION

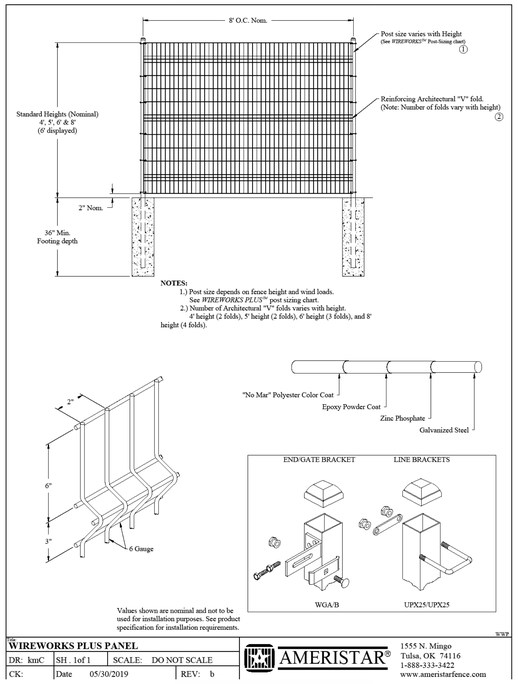
1/4" = 1'-0"



WIREWORKS PLUS SGL & DBL GATE

DR: KMc	SH . 1of 1	SCALE: DO NOT SCALE	
CK:	Date 05/31/2019		REV: B

AMERISTAR® 1555 N. Mingo Tulsa, OK 74116 1-888-333-3422 www.ameristarfence.com



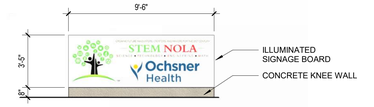
WIREWORKS PLUS PANEL

DR: kmC	SH . 1of 1	SCALE: DO NOT SCALE	
CK:	Date 05/30/2019		REV: b

AMERISTAR® 1555 N. Mingo Tulsa, OK 74116 1-888-333-3422 www.ameristarfence.com

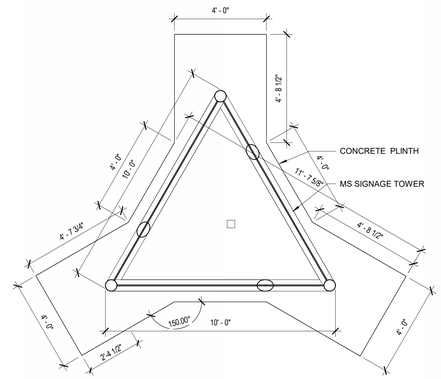
1 A140 SITE FENCING DETAILS

NTS



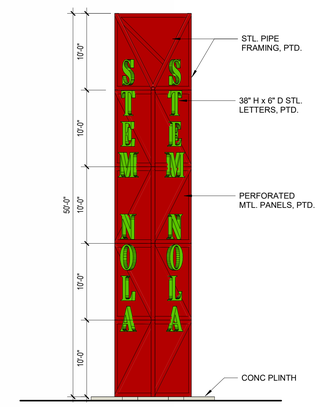
4 A100 A140 MONUMENT SIGN

1/4" = 1'-0"



5 A100 A140 SIGNAGE TOWER-PLAN

3/8" = 1'-0"



SIGNAGE TOWER

6 A140 SIGNAGE TOWER ELEVATION

1/8" = 1'-0"

ALL SIGNAGE SHOWN FOR PRICING PURPOSES ONLY & WILL BE PERMITTED SEPARATELY ONCE FINALIZED

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

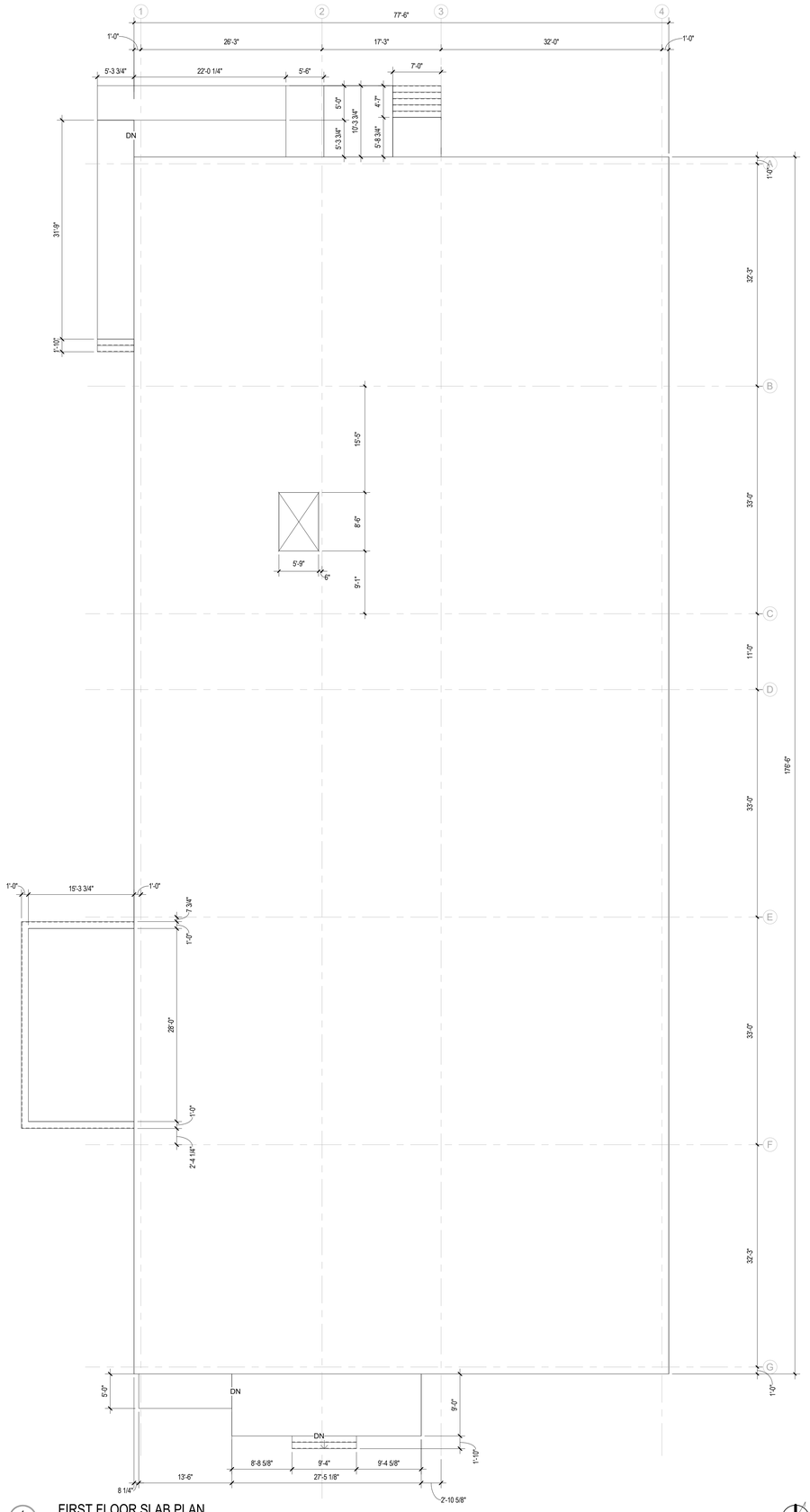
DOMINIC A. WILLARD, III. REG. No. 36780 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

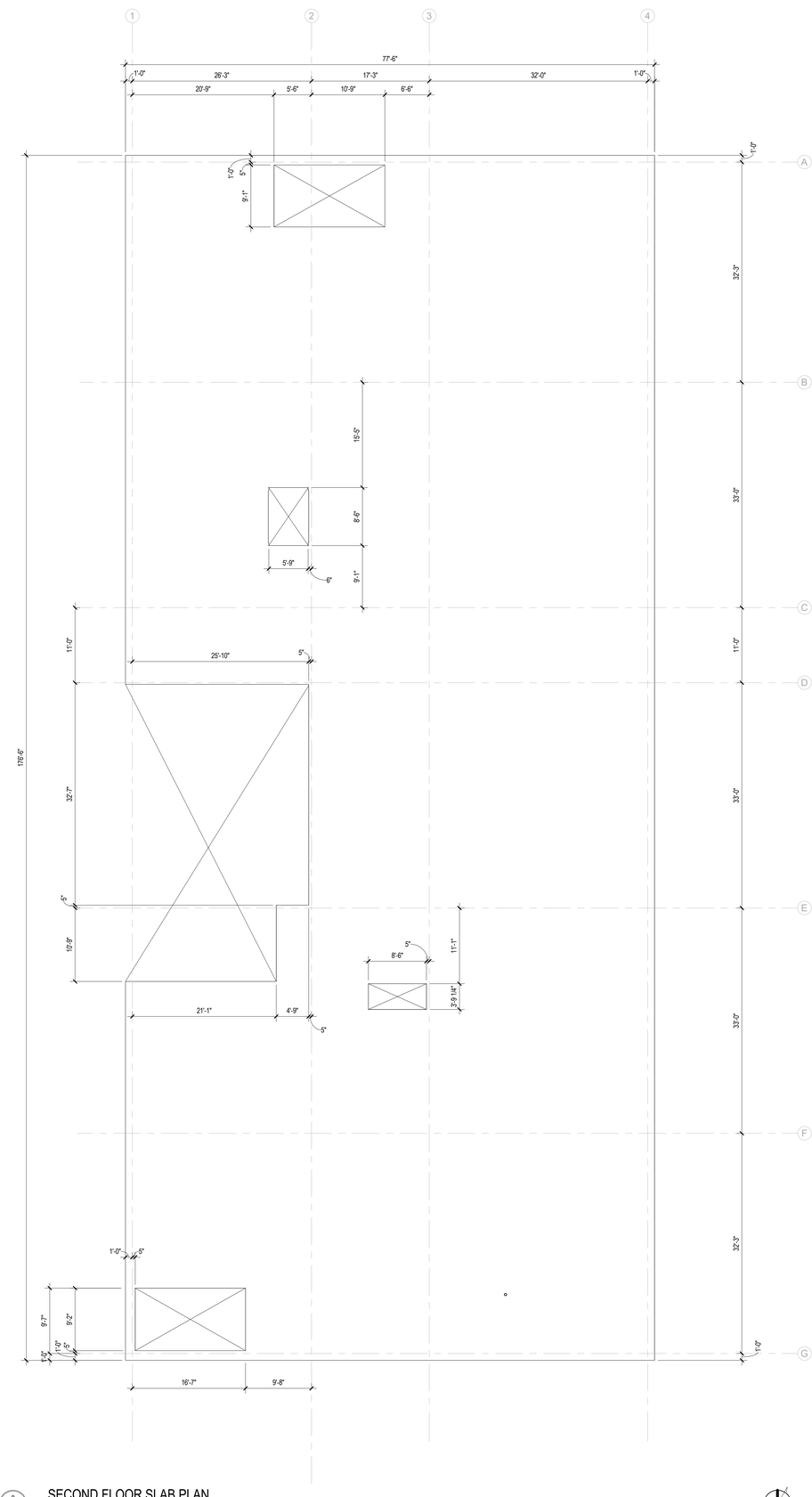
SITE DETAILS

SHEET NO. A140



1 A201 FIRST FLOOR SLAB PLAN

1/8" = 1'-0"



2 A201 SECOND FLOOR SLAB PLAN

1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. COORDINATE FOUNDATION W/ STRUCT. DWGS.
2. COORDINATE STAIR & RAMP RISE/RUN WITH CIVIL T.O. GRADE ELEVATIONS

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD JR. REG. No. 7539 STATE OF LOUISIANA REGISTERED ARCHITECT

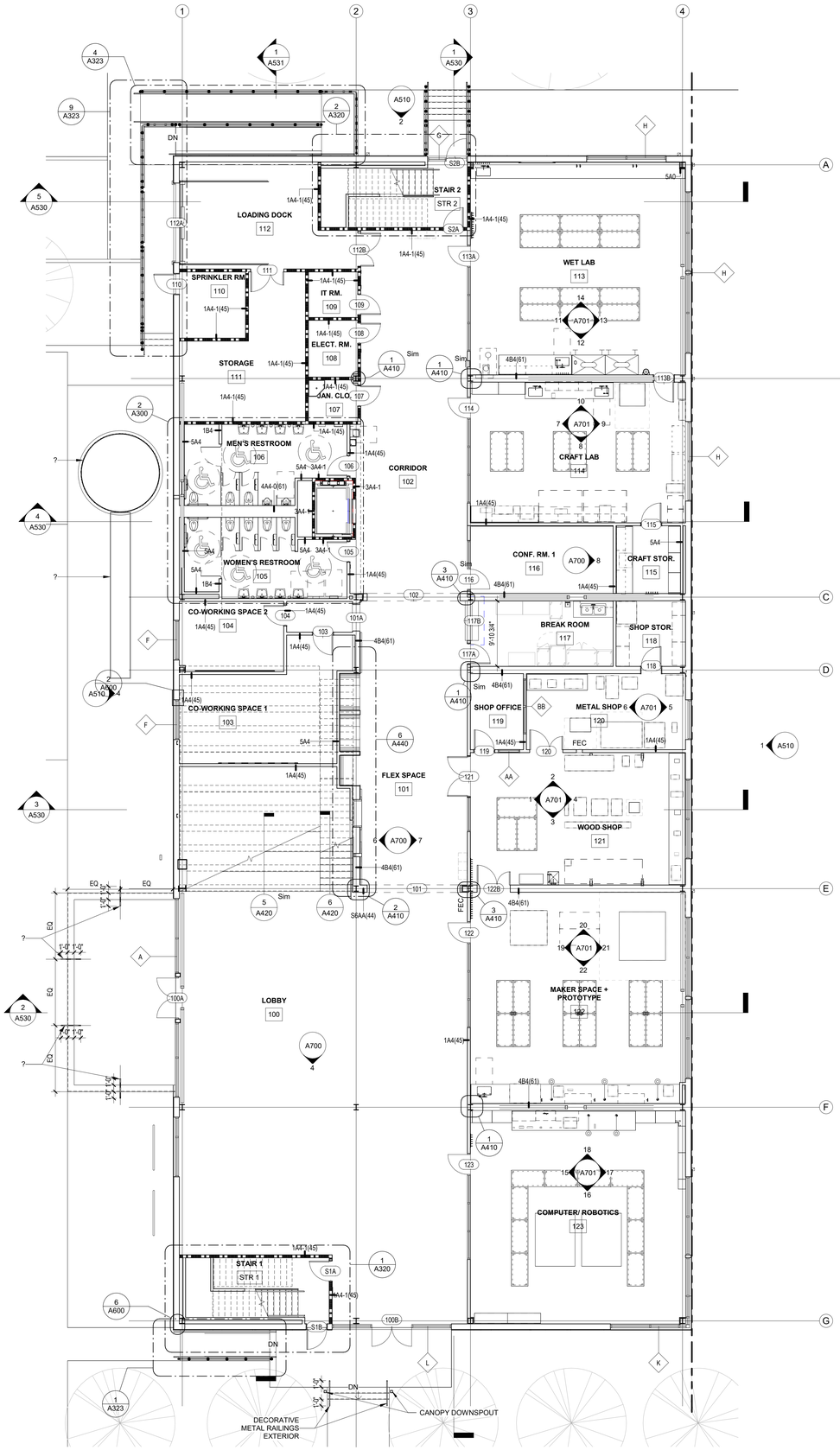
WDG Project No: 2024002

SHEET NAME

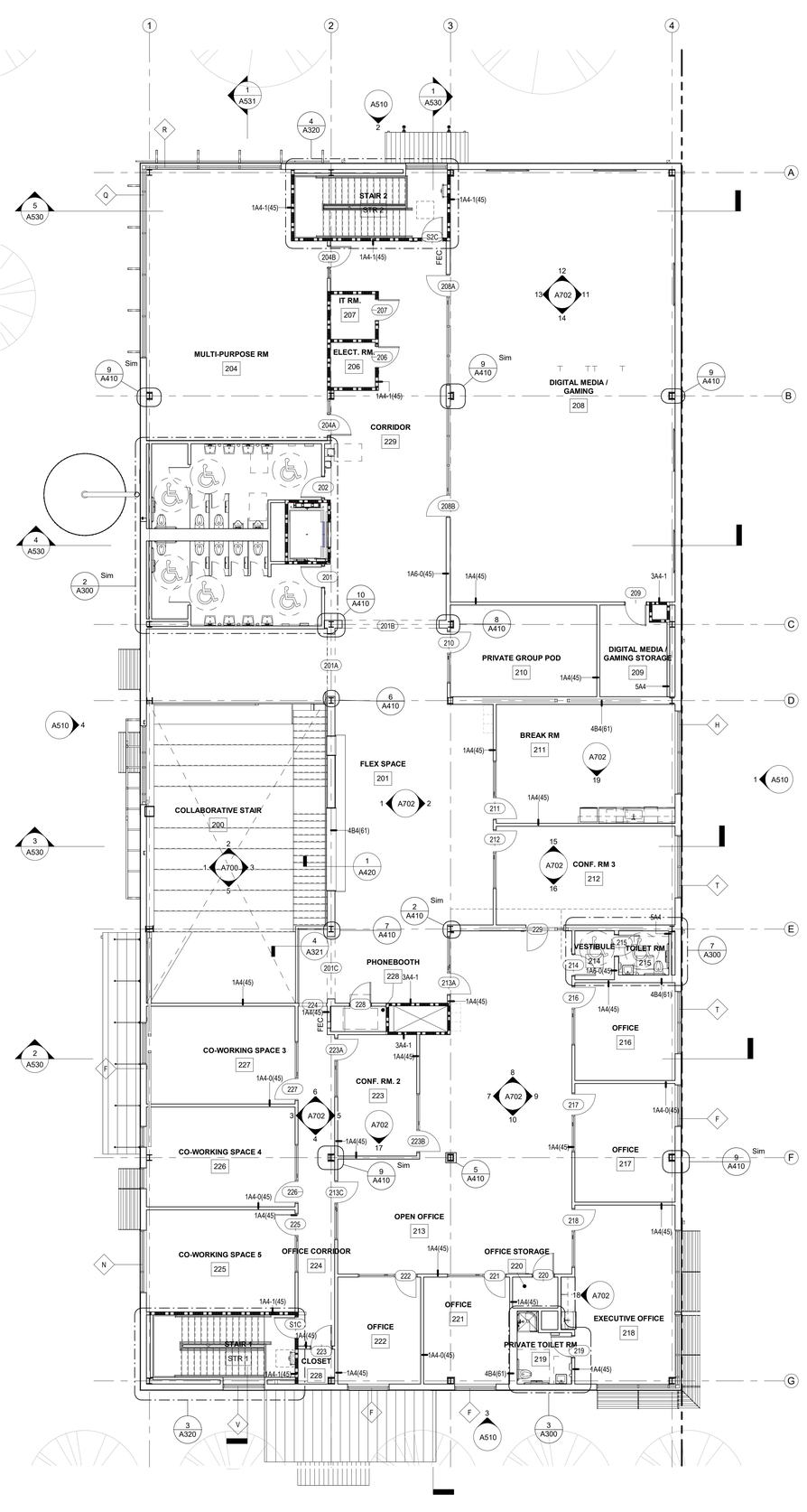
FIRST AND SECOND FLOOR SLAB PLANS

SHEET NO.

A201



1 A211 FIRST FLOOR PLAN
1/8" = 1'-0"



2 A211 SECOND FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO LAB PLANNER DRAWINGS FOR ALL SPECIALTY EQUIPMENT AND CASEWORK IN LABORATORIES.
2. CONTRACTOR TO PROVIDE WALL-MOUNTED MARKER BOARDS, SEE INTERIOR ELEVATIONS.
3. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
4. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
5. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
6. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

SHEET NOTES

05-512	
057313	DECORATIVE METAL RAILINGS EXTERIOR
130002	
130003	

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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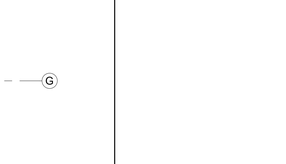
01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025



WDG Project No: 2024002

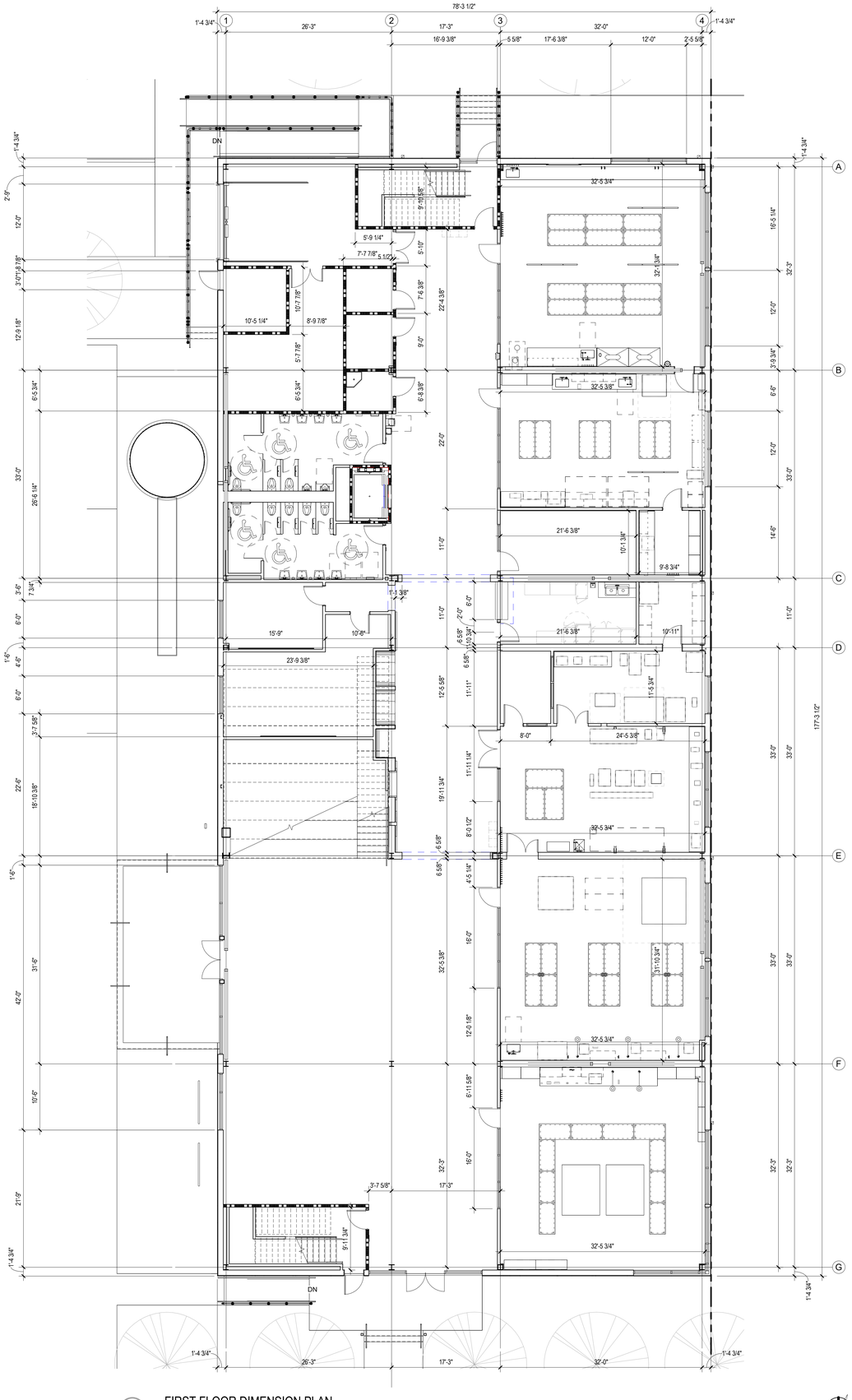
SHEET NAME

FIRST AND SECOND FLOOR PLANS

SHEET NO.

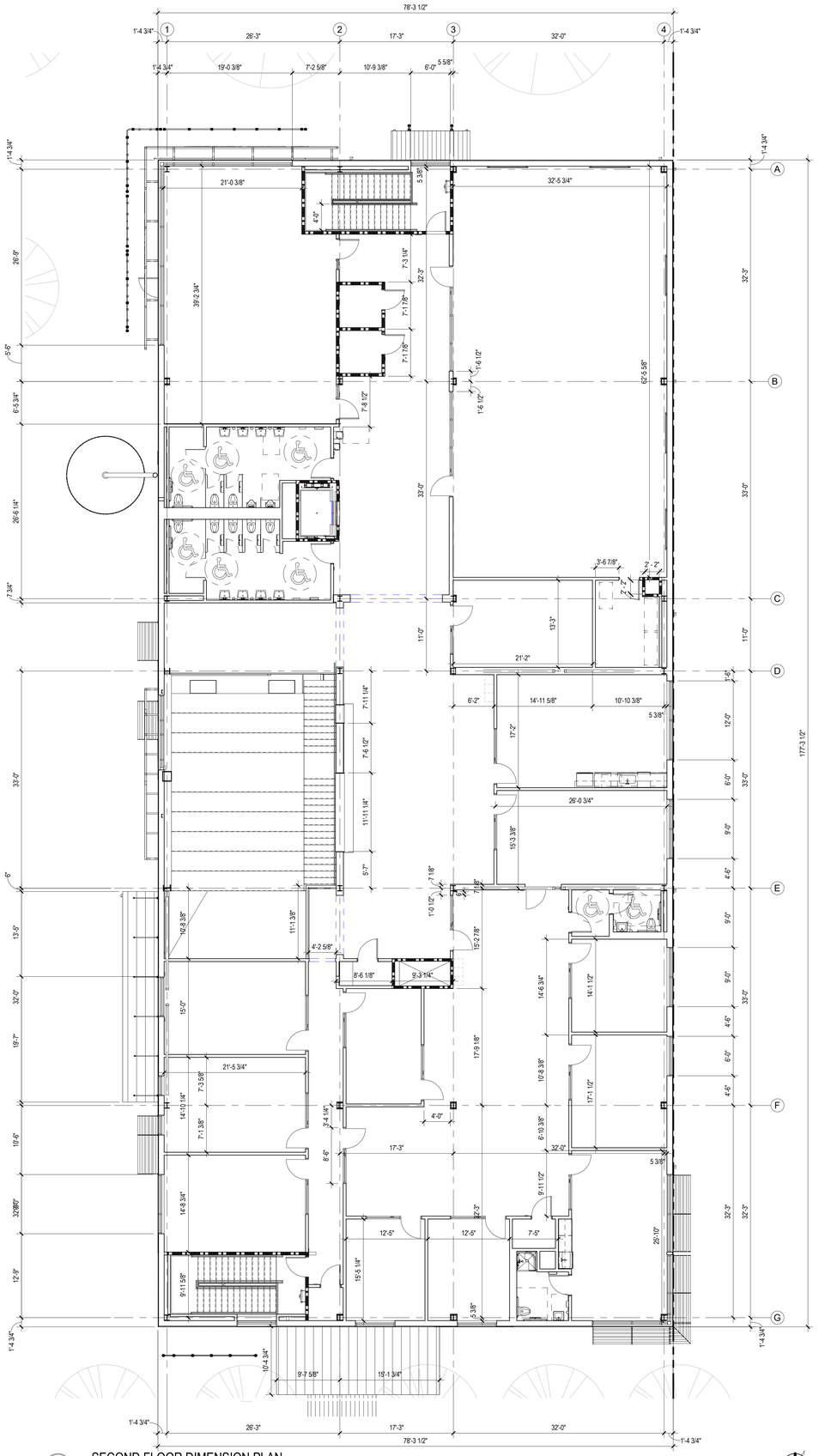
A211

studio kiro



FIRST FLOOR DIMENSION PLAN

A212 1/8" = 1'-0"



SECOND FLOOR DIMENSION PLAN

2 A212 1/8" = 1'-0"

GENERAL NOTES

1. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
2. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
3. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
4. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD III REG. No. 7529 STATE OF LOUISIANA REGISTERED ARCHITECT

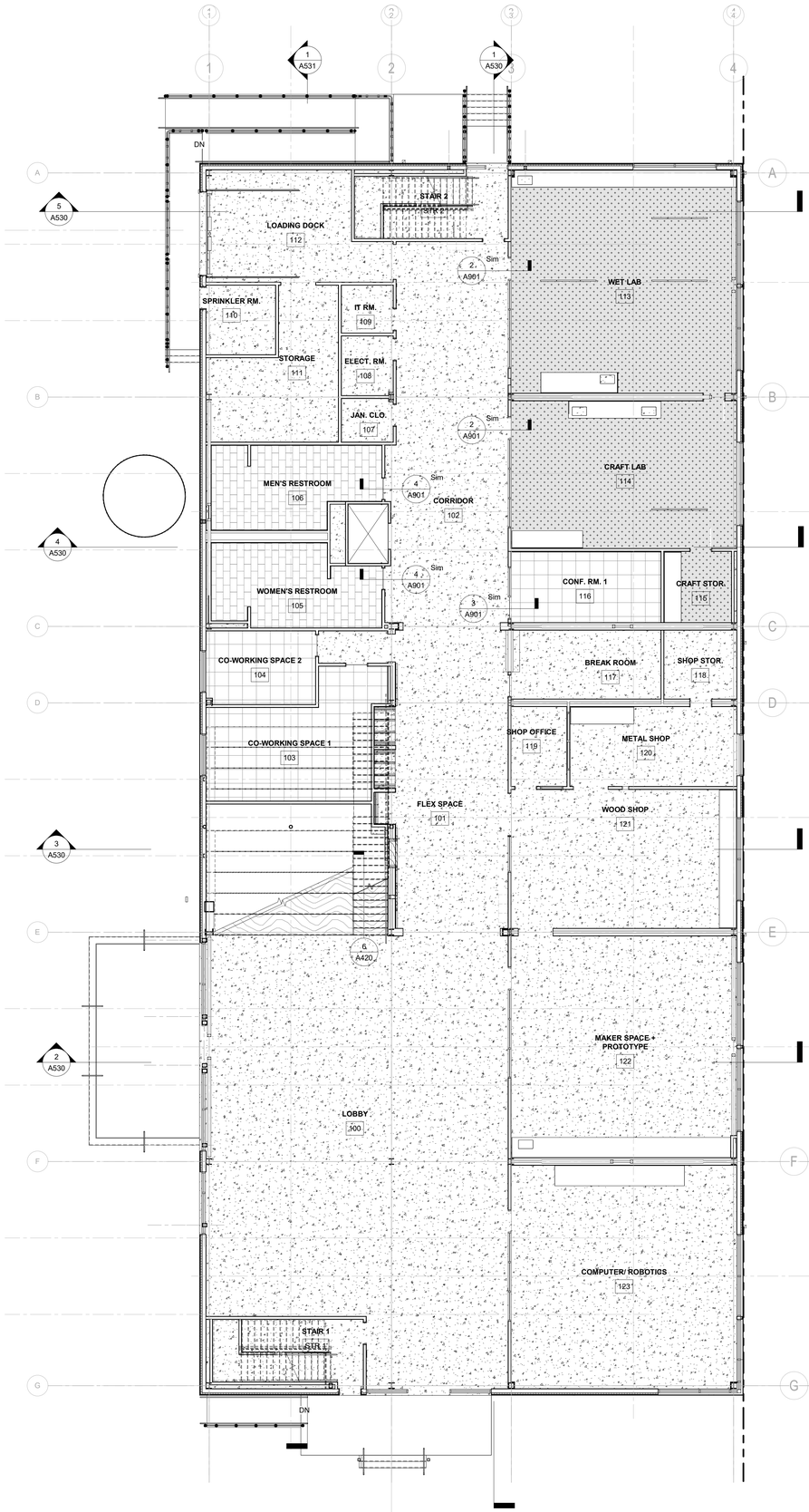
WDG Project No: 2024002

SHEET NAME

FIRST AND SECOND FLOOR DIMENSION PLANS

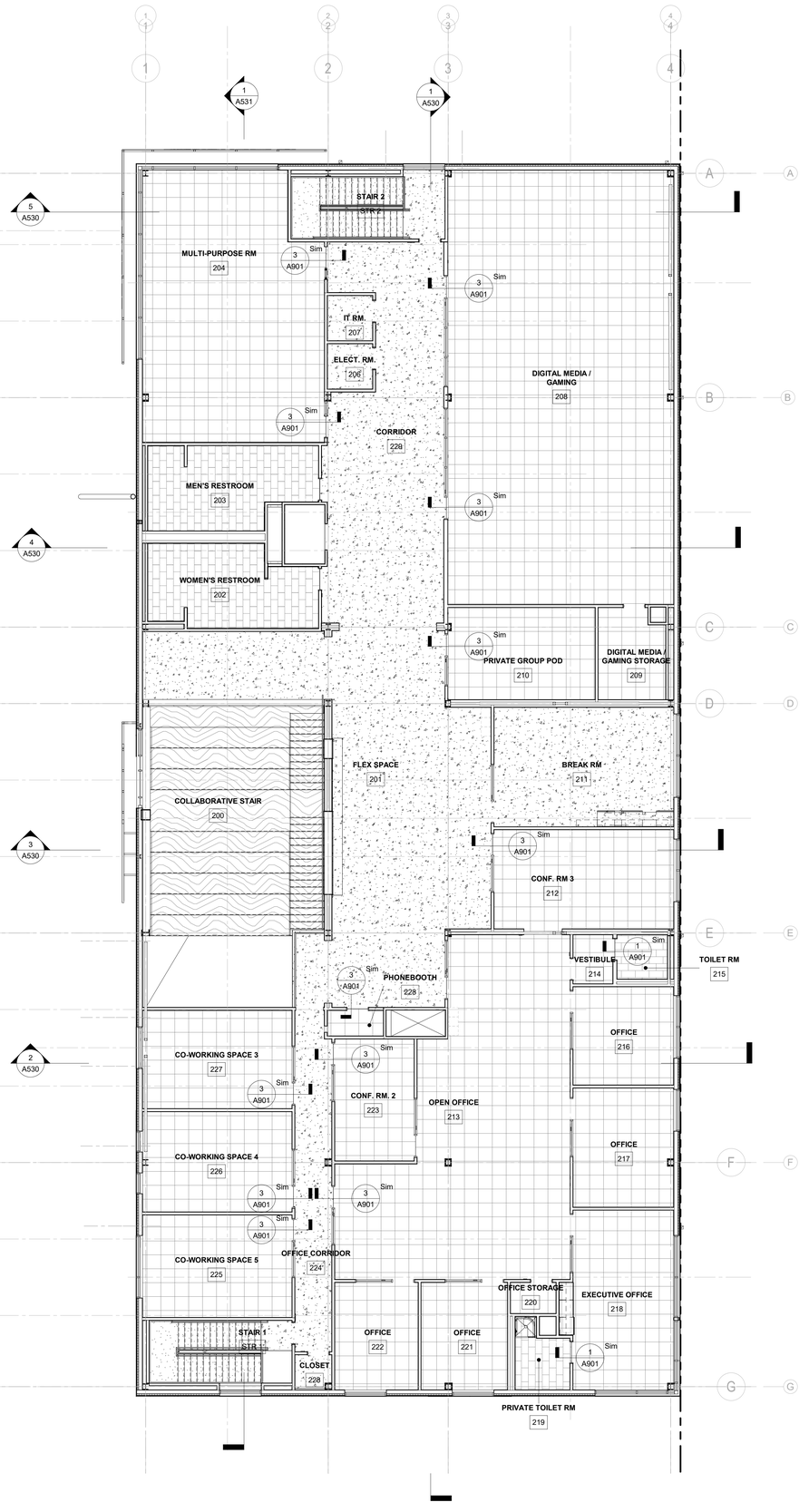
SHEET NO. A212

studio kiro



1 A213 FIRST FLOOR PLAN Copy 2

1/8" = 1'-0"



2 A213 SECOND FLOOR PLAN Copy 2

1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
2. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
3. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
4. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

LEGEND

- SEALED CONCRETE (CONC-1, CONC-2)
- CARPET TILE (CPT-1, CPT-2)
- PORCELAIN FLOOR TILE (TL-1)
- NO FLOORING. EXPOSED TO STRUCTURE TO BELOW
- RUBBER FLOORING (RF-1)
- ENGINEERED HARDWOOD (WD-1)

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WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025

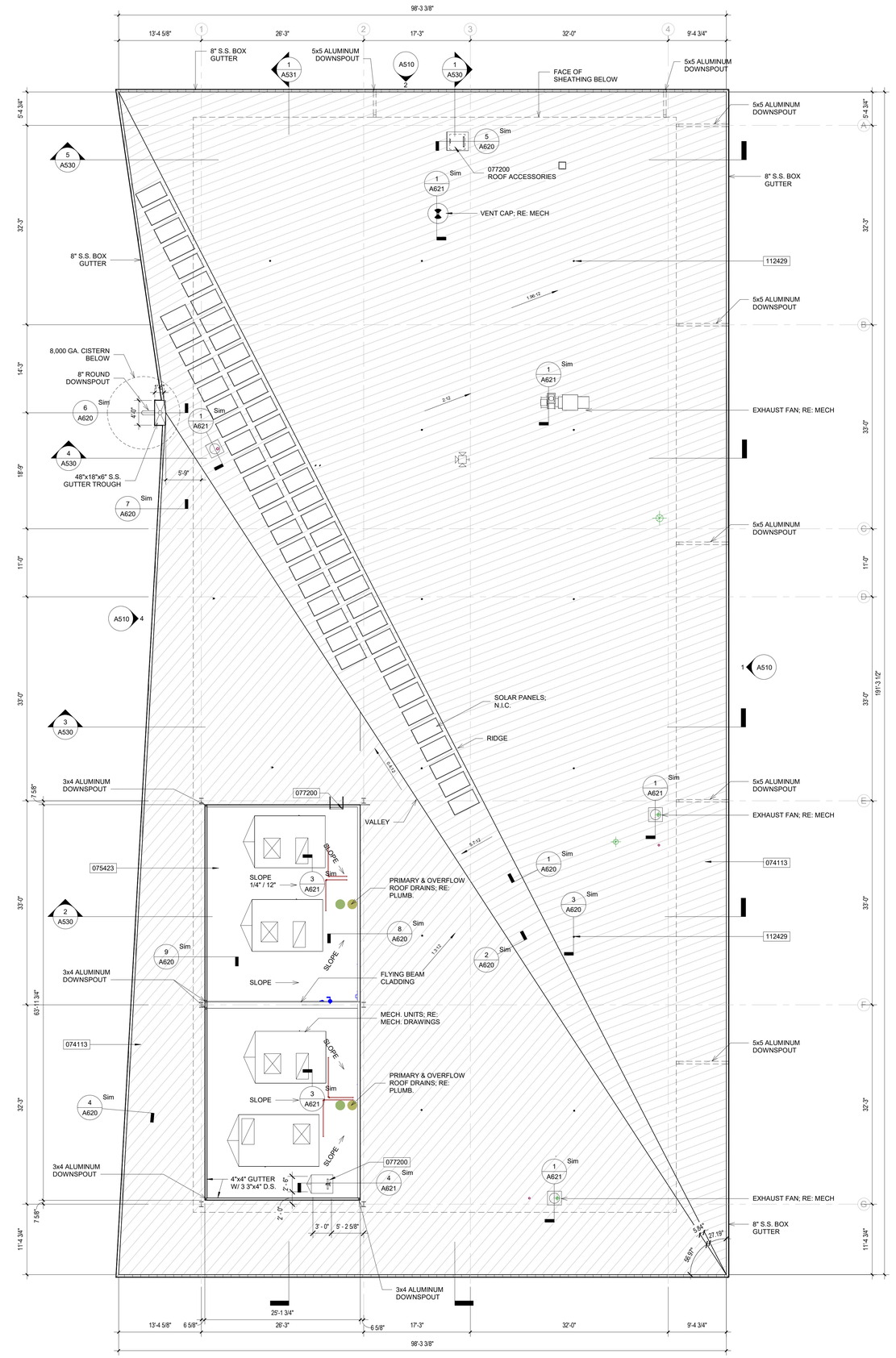
DOMINIC A. WILLARD JR. REG. No. 37908 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

FIRST AND SECOND FLOOR FINISH PLANS

SHEET NO. A213



GENERAL NOTES

SHEET NOTES

074113	STANDING-SEAM METAL ROOF PANELS
075423	THERMOPLASTIC POLYOLEFIN (TPO) ROOFING
077200	ROOF ACCESSORIES
112429	FACILITY FALL PROTECTION

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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01/19/2026	PERMIT SET

REVISIONS

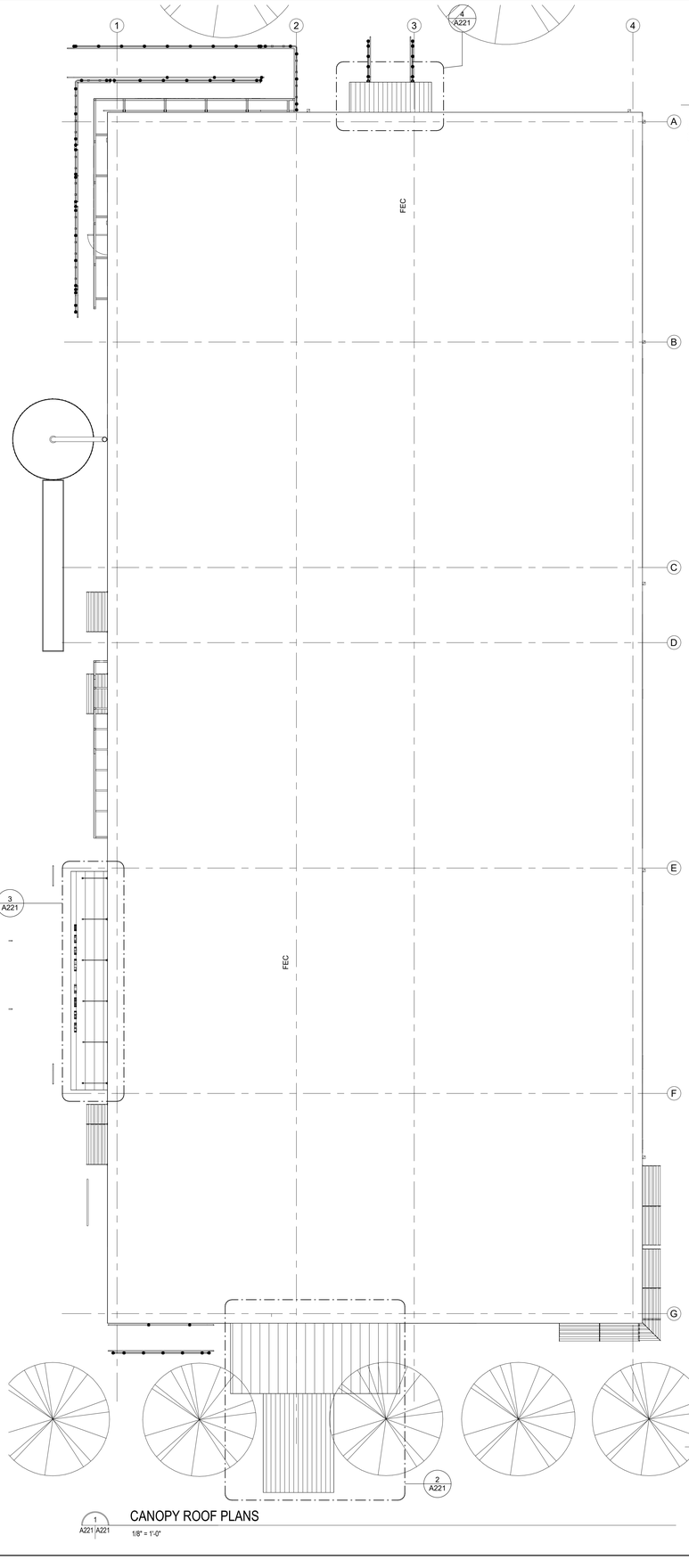
DOMINIC A. WILLARD, JR. REG. No. 37609 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

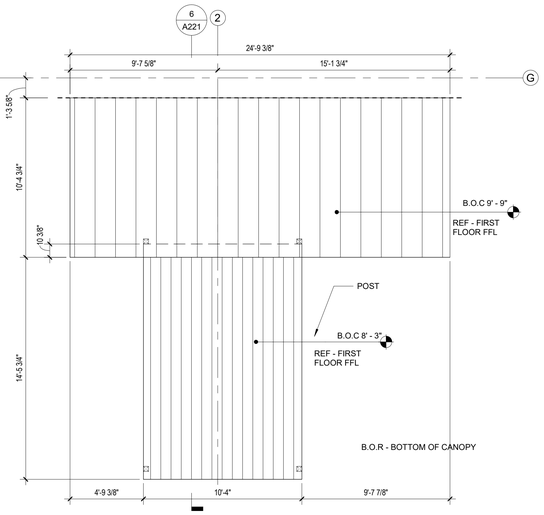
ROOF PLAN

SHEET NO. A220



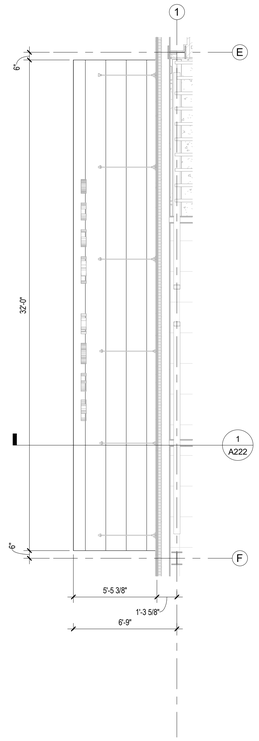
CANOPY ROOF PLANS

1 A221 A221 — 1/8" = 1'-0"



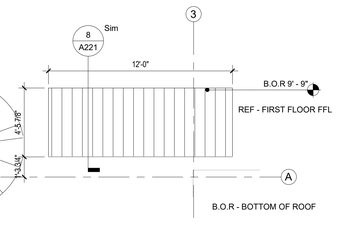
SOUTH ENTRY CANOPY- PLAN

2 A221 A221 — 1/4" = 1'-0"



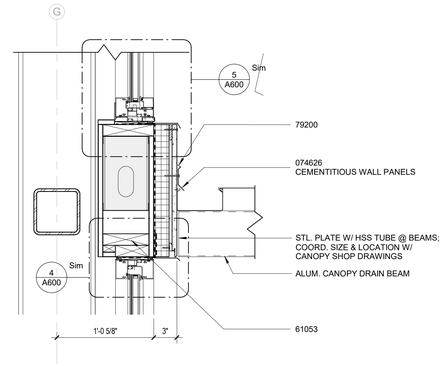
WEST ENTRY CANOPY-PLAN

3 A221 A221 — 1/4" = 1'-0"



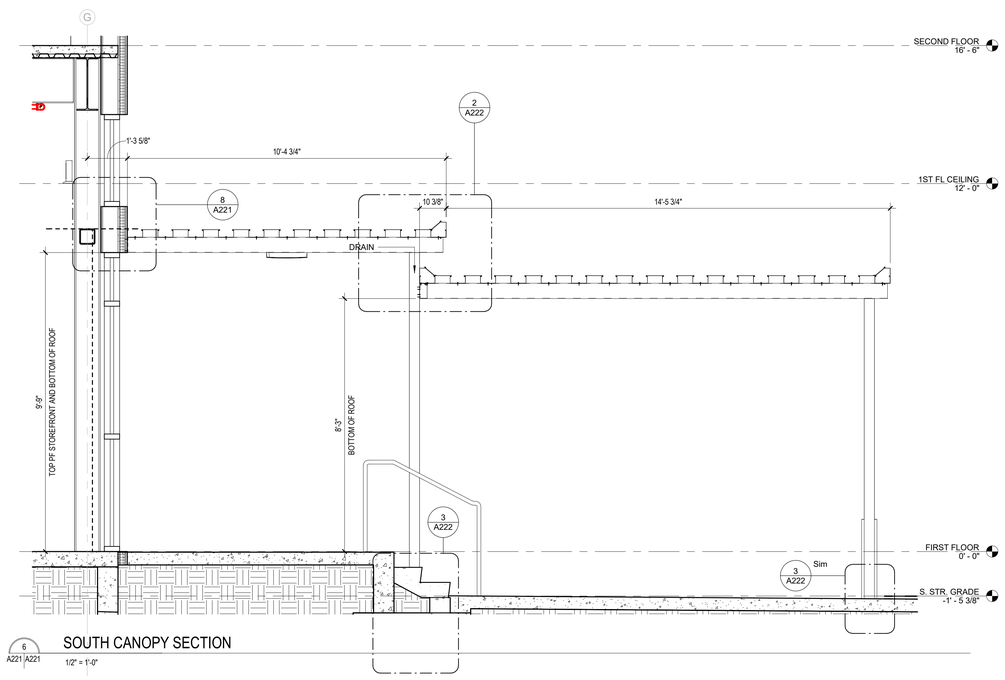
NORTH ENTRY CANOPY - PLAN

4 A221 A221 — 1/4" = 1'-0"



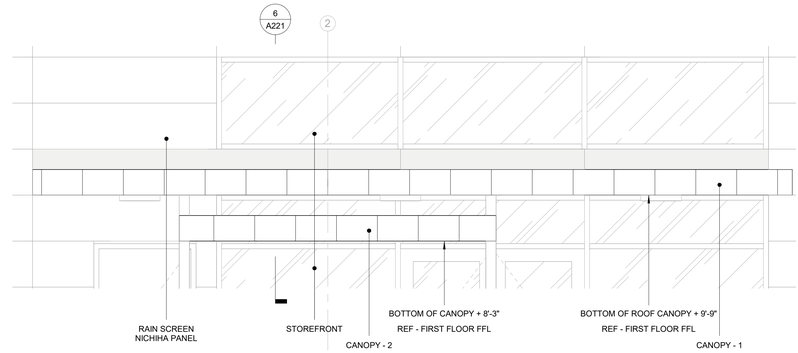
SOUTH CANOPY-STOREFRONT SECTION DETAIL

8 A221 A221 — 1 1/2" = 1'-0"



SOUTH CANOPY SECTION

6 A221 A221 — 1/2" = 1'-0"



SOUTH CANOPY - ELEVATION

5 A221 — 1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

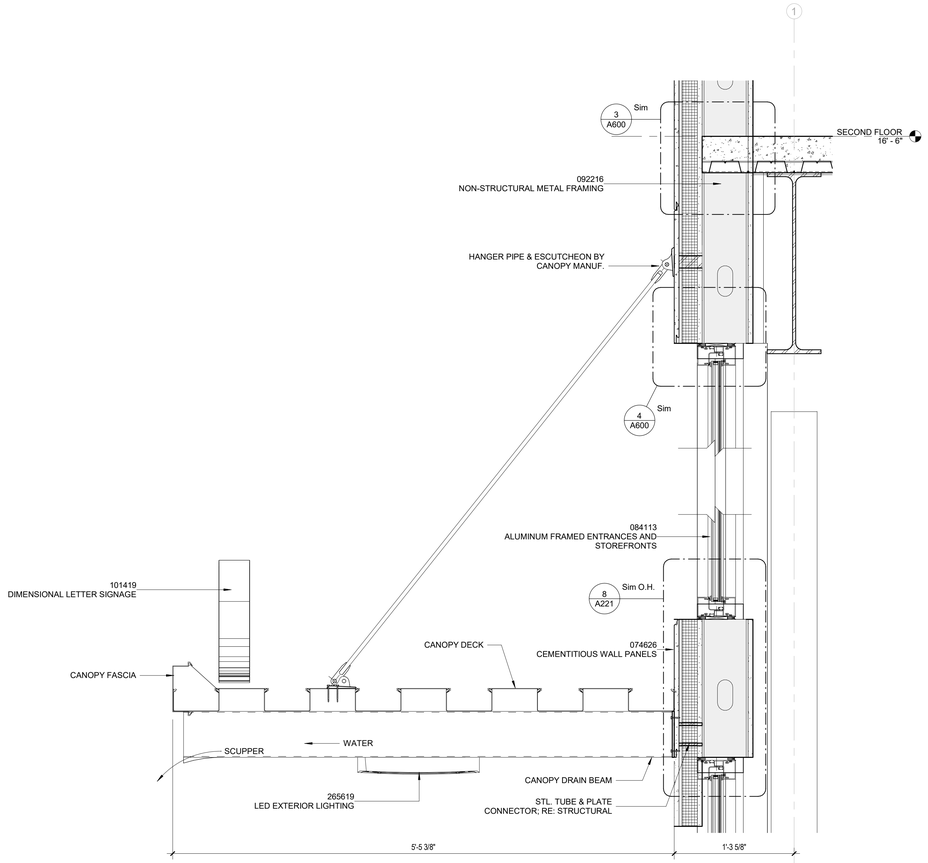
DOMINIC A. WILLARD, AIA
REG. No. 37909
STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

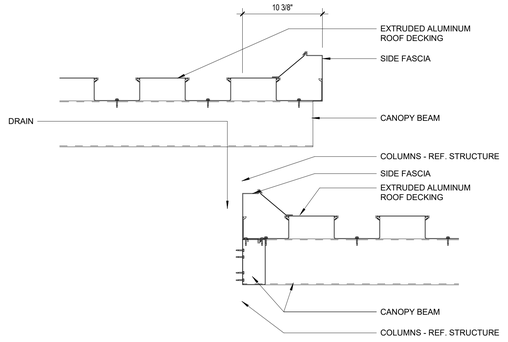
CANOPY ROOFS - DETAILS

SHEET NO. A221



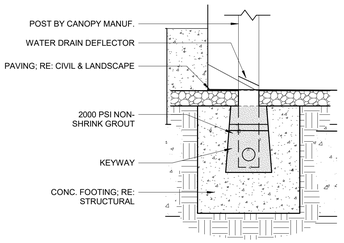
1 A221 | A222 WEST CANOPY-SECTION

1 1/2" = 1'-0"



2 A221 | A222 SOUTH CANOPY - OVERLAP DETAIL

1 1/2" = 1'-0"



3 A221 | A222 SOUTH CANOPY - COLUMN BASE DETAIL

1" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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REVISIONS

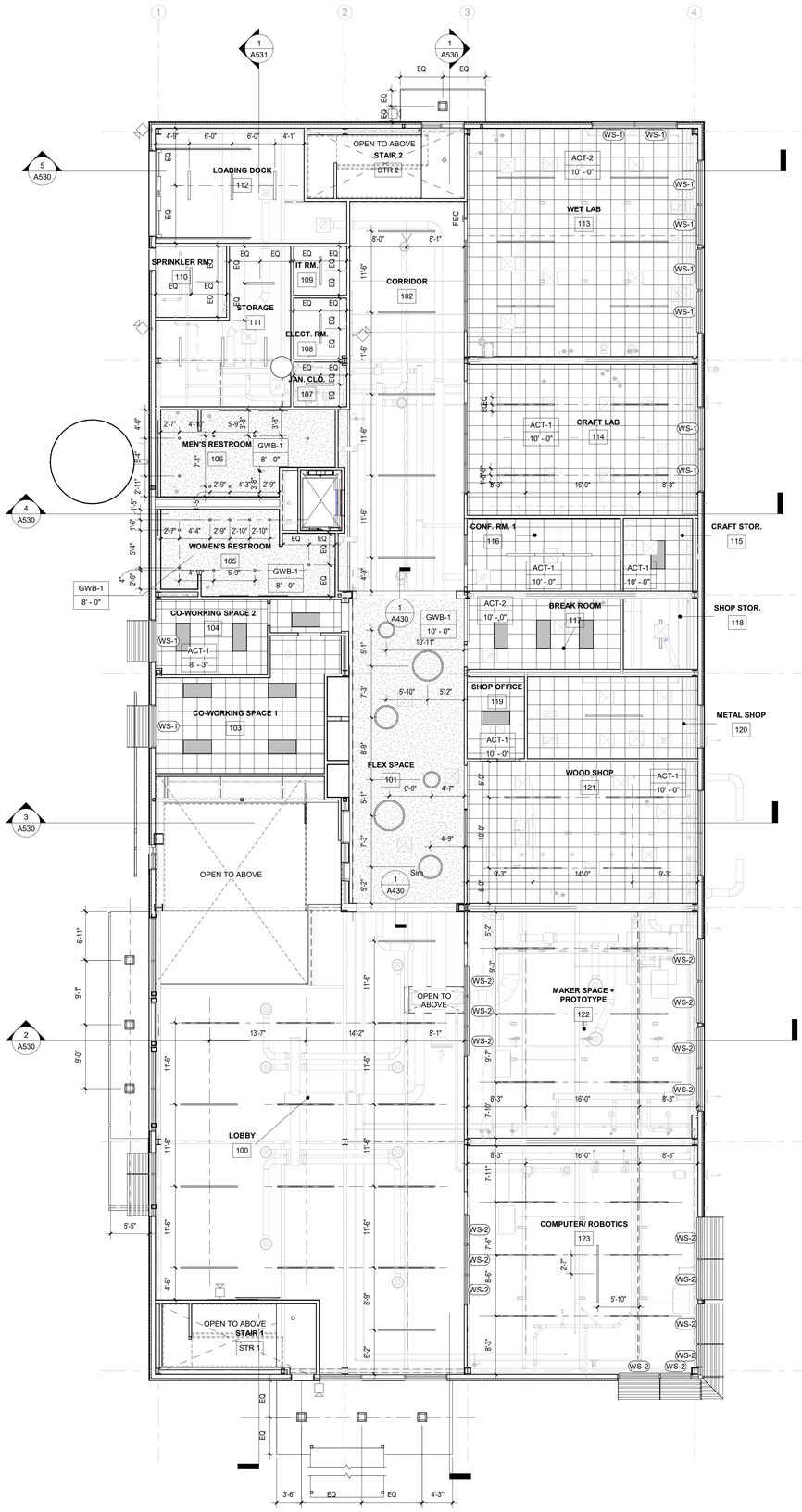
DOMINIC A. WILLARD, JR. REG. No. 37638 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

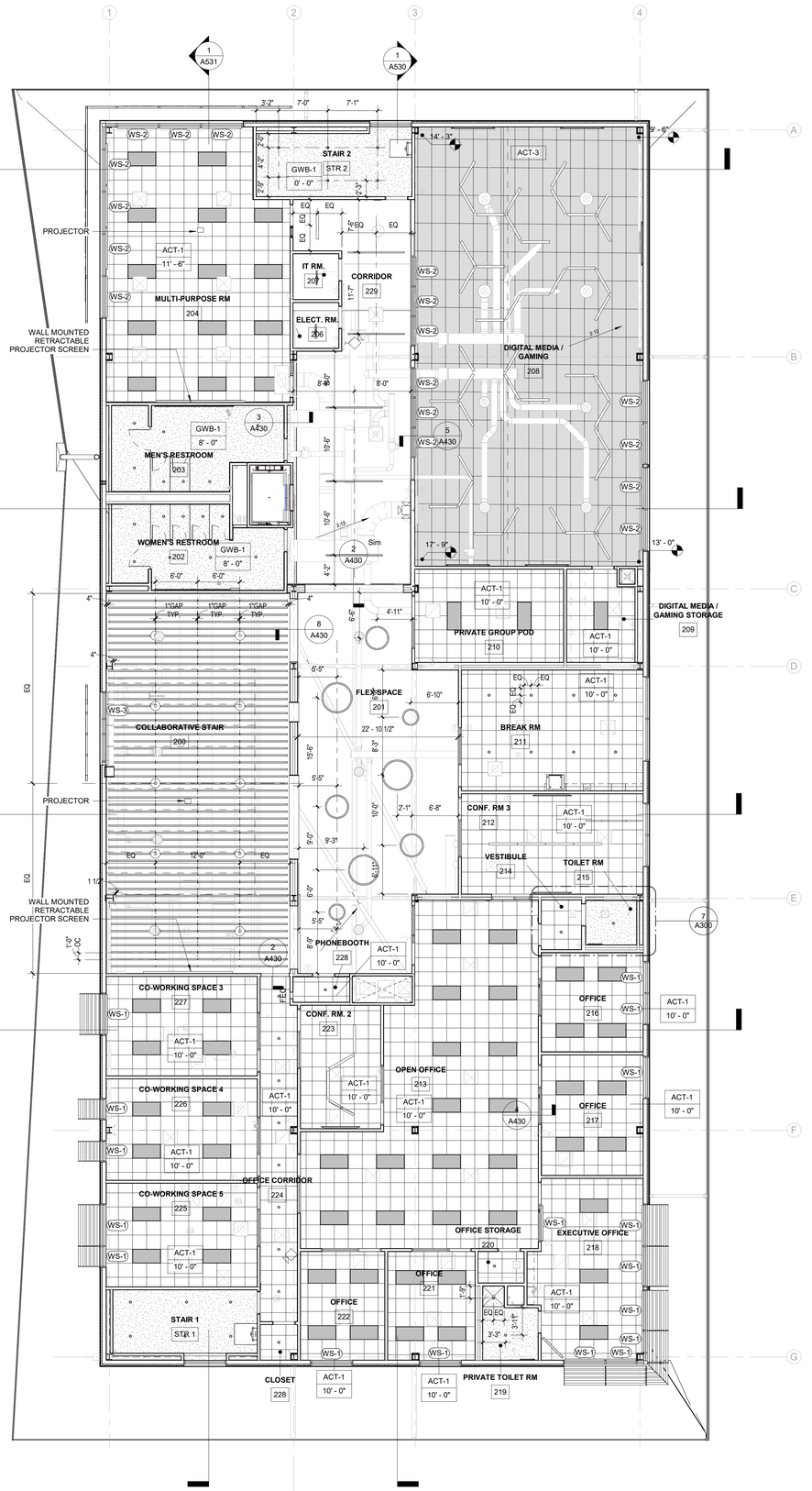
SHEET NAME

CANOPY ROOFS - DETAILS

SHEET NO. A222



1 FIRST FLOOR REFLECTED CEILING PLAN
A231 1/8" = 1'-0"



2 SECOND FLOOR REFLECTED CEILING PLAN
A231 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SCHEDULES, LEGENDS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
2. LIGHT FIXTURE LOCATIONS SHALL TAKE PRECEDENCE OVER ALL OTHER CEILING SYSTEMS FOLLOWED BY SURVEILLANCE CAMERAS, DIFFUSERS, RETURN AIR GRILLES, SOUND, ETC. ARCHITECTURAL DRAWINGS DICTATE INTENT OF FINAL LOCATION. GENERAL CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL THE ABOVE WITH ARCHITECTURAL PRIOR TO INSTALLATION PER SPECIFICATION.
3. FOR LIGHT FIXTURE LOCATIONS, THE ARCHITECTURAL DOCUMENTS SUPERSEDE THE ENGINEERING DOCUMENTS.
4. COORDINATE FINAL INSTALLATION OF ALL FIXTURE TYPES WITH ARCHITECTURAL, ELECTRICAL, MILLWORK AND/OR INTERIOR DESIGN DETAILS.
5. SEE ARCHITECTURAL LIGHTING PLANS & ENGINEERING DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS & SCHEDULE. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID SUBMITTAL. NO CHANGE ORDERS WILL BE ACCEPTED DUE TO CONFLICTS IN SCHEDULES.
6. LIGHTING FIXTURE LOCATIONS, AS SHOWN ON LIGHTING PLANS, SHALL TAKE PRECEDENCE OVER ALL OTHER SYSTEMS. OBTAIN WRITTEN APPROVAL FROM LIGHTING DESIGNER/ARCHITECT PRIOR TO EXECUTING ANY CHANGES IN LOCATION.
7. CONFIRM THE EXACT LENGTHS REQUIRED BY FIELD MEASUREMENT FOR ALL LINEAR FIXTURE TYPES AND PROVIDE ALL NECESSARY PARTS AND ACCESSORIES TO INSURE PROPER AND COMPLETE INSTALLATION.
8. CONSTRUCT ALL ARCHITECTURAL COVE TYPE FIXTURES AS DETAILED AND DIMENSIONED. OBTAIN WRITTEN APPROVAL FROM LIGHTING DESIGNER/ARCHITECT PRIOR TO UNDERTAKING ANY CHANGES TO DIMENSIONS OR CONFIGURATION.
9. CONFIRM WITH ARCHITECT DESIGNER THE EXACT CENTER LINE AFF MOUNTING HEIGHT OF ALL JUNCTION BOXES FOR WALL MOUNTED FIXTURE TYPES.
10. SEE ENGINEERING DOCUMENTS FOR BALLAST AND VOLTAGE REQUIREMENTS.
11. CONFIRM THAT ALL FIXTURES ARE UL OR ETL LISTED AS A SYSTEM AND COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODES APPLICABLE TO JURISDICTION.
12. CONFIRM AND SUPPLY THE EXACT TYPE, SIZE AND QUANTITY OF ALL LAMPS REQUIRED FOR EACH FIXTURE AND TYPE.
13. AT CLOSE OF JOB, RE-LAMP ALL FIXTURES WITH NEW LAMPS AND PROVIDE OWNER/TENANT WITH 10% SPARE (NEW) LAMPS OF ALL LAMP TYPES, UNO.
14. SIZE ALL TRANSFORMERS PER NATIONAL ELECTRIC CODES APPLICABLE TO JURISDICTION.
15. PROVIDE DIMMABLE BALLAST FOR ALL FLUORESCENT LIGHTS CONTROLLED BY DIMMER SWITCHES.
16. CONFIRM ALL FINISHES NOT SPECIFIED WITH ARCHITECT PRIOR TO ORDERING.
17. PROVIDE SELF-FLANGED, OVERLAP TRIMS OF THE SAME MATERIAL AND FINISH AS THE REFLECTOR FOR ALL RECESSED FIXTURES.
18. ASSURE THAT ALL OPEN REFLECTOR AND ALZAK CONE APERTURE TYPE FIXTURES MATCH IN COLOR AND APPEARANCE REGARDLESS OF TYPES AND SOURCE.
19. ASSURE THAT ALL FIXTURES ARE FREE OF SCRATCHES, DENTS, DUST, FINGERPRINTS, ETC, AT CLOSE OF JOB.
20. FOR LIGHT SWITCHING AND LIGHT SWITCH LOCATIONS, SEE ENGINEERING DOCUMENTS.
21. GANG ALL ADJACENT SWITCHES UNDER ONE COVER PLATE.
22. SWITCH HEIGHT TO BE 38" AFF, UNLESS OTHERWISE NOTED. WHEN SWITCHES AND DIMMERS ARE ADJACENT, ALIGN THE HORIZONTAL CENTERLINE OF THE SWITCH AND THE HORIZONTAL CENTERLINE OF THE DIMMER. THE DISTANCE BETWEEN THE SWITCH AND THE DIMMER SHOULD BE ONE INCH (1").
23. FOR LIGHT SWITCHING AND LIGHT SWITCH LOCATIONS REFER TO ENGINEERING DOCUMENTS. COORDINATE ALL SWITCHES WITH MILLWORK.
24. ALL FIXTURE QUANTITIES SHOWN ON THE ENGINEERING DRAWINGS SHALL GOVERN.
25. ALL FIXTURES IN CEILING TILES TO BE CENTERED IN TILE U.N.O.

SHEET NOTES

LEGEND

- WS-1 MANUAL ROLLER SHADE
- WS-2 MANUAL ROLLER SHADE - BLACKOUT

SEE INTERIOR FINISH SCHEDULE FOR WINDOW SHADE PRODUCT INFORMATION

WS-3 ELECTRONIC ROLLER SHADE - BLACKOUT

SEE ELECTRICAL FOR LIGHT FIXTURE PRODUCT INFORMATION

- 2'x4' SQ. LAY-IN, FINE TEXTURE ACOUSTICAL CEILING TILE & GRID: ACT-3
- 2'x2' SQ. LAY-IN, FINE TEXTURE ACOUSTICAL CEILING TILE & GRID: ACT-2
- 2'x2' SQ. LAY-IN, FINE TEXTURE ACOUSTICAL CEILING TILE & GRID: ACT-1
- NO CEILING. EXPOSED TO STRUCTURE TO ABOVE
- SUSPENDED GYPSUM BOARD CEILING
- RECESSED RECTANGULAR LIGHT FIXTURE
- DOMED PENDANT LIGHT
- SURFACE MOUNT CYLINDER LIGHT
- RECESSED CAN DOWNLIGHT
- LINEAR PENDANT LIGHT
- LINEAR WALL MOUNT VANITY LIGHT
- EXTERIOR SCONCE UP-DOWN LIGHT
- EXTERIOR EMERGENCY SCONCE
- EXIT LIGHT (CEILING MOUNTED)
- EXIT LIGHT (WALL MOUNTED)
- RETURN AIR/EXHAUST
- DIFFUSER
- THERMOSTAT
- MICROPHONE

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WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025

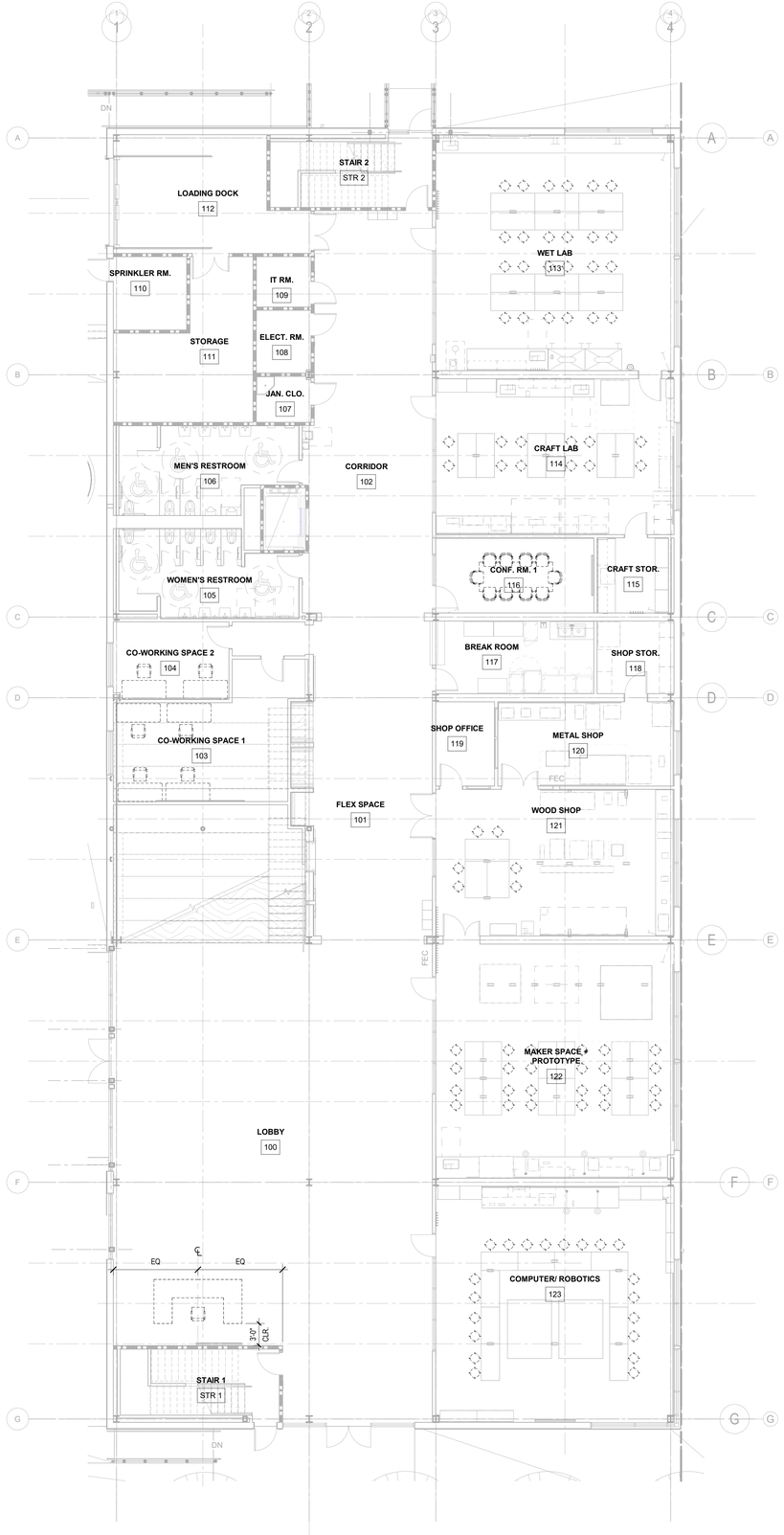
DOUNG A. WILLARD, JR. REG. No. 36,127 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

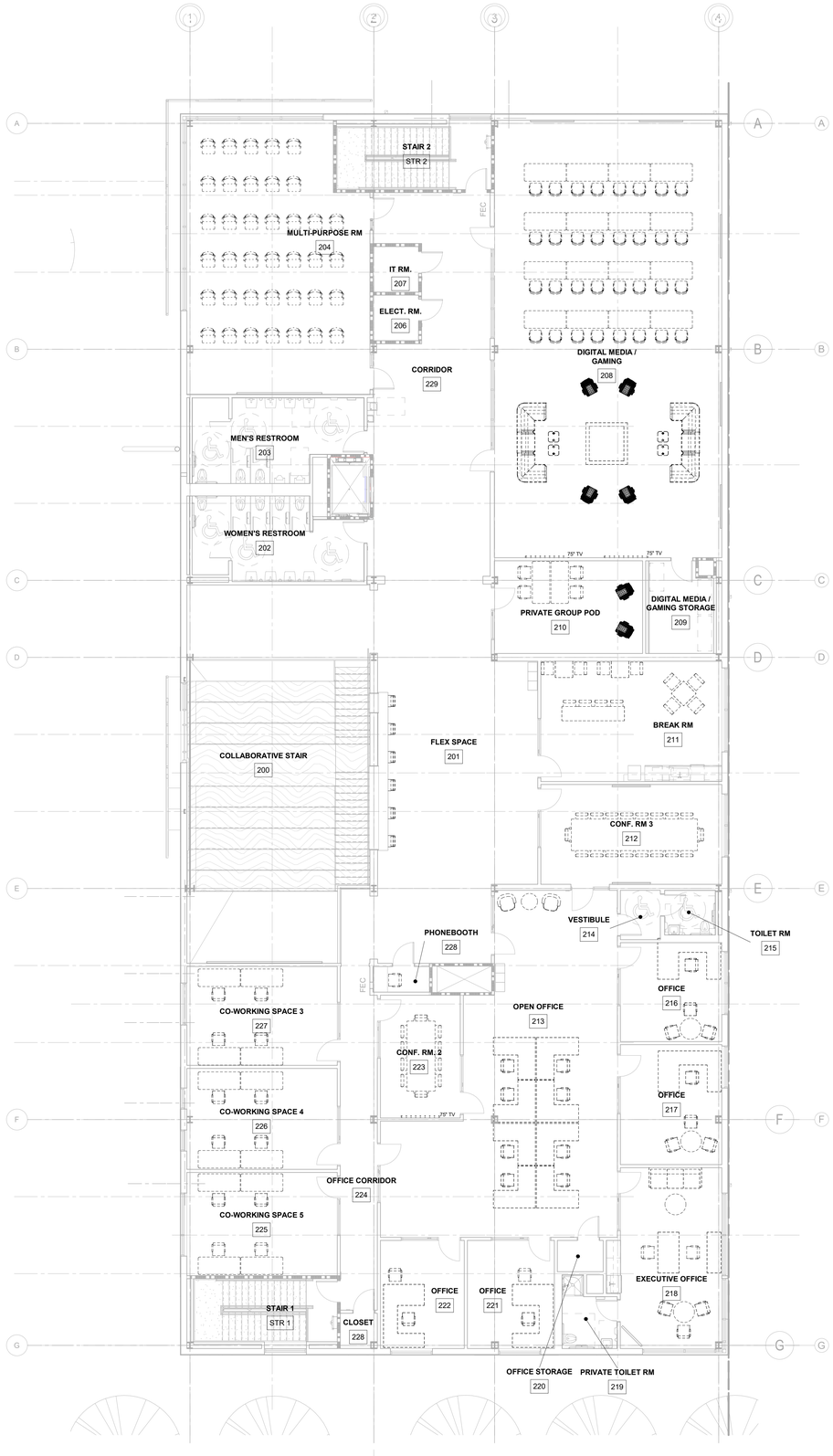
FIRST AND SECOND FLOOR REFLECTED CEILING PLANS

SHEET NO. A231



1 A251 FIRST FLOOR FURNITURE PLAN

1/8" = 1'-0"



2 A251 SECOND FLOOR FURNITURE PLAN

1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD, AIA REG. No. 37691 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

FF&E PLANS (FOR REFERENCE ONLY)

SHEET NO. A251

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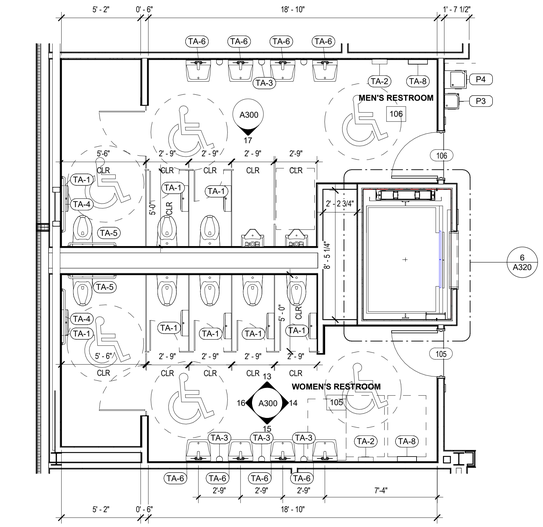
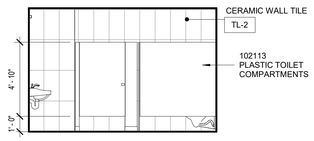
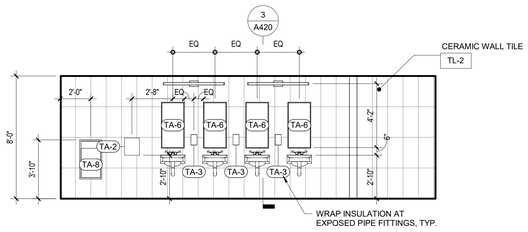


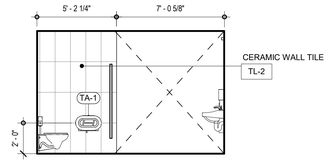
2 A211 A300 ENLARGED PLAN - MEN'S AND WOMEN'S RESTROOMS
1/4" = 1'-0"



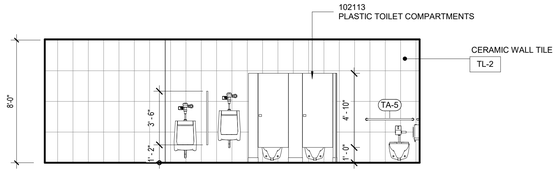
16 A300 A300 RESTROOM - WEST
1/4" = 1'-0"



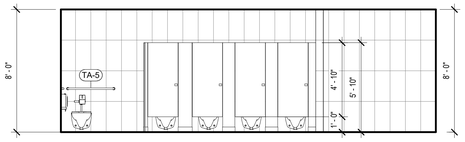
15 A300 A300 RESTROOM - LAVATORIES
1/4" = 1'-0"



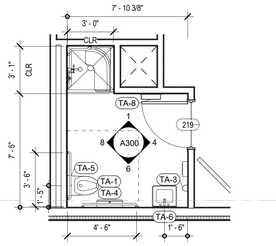
14 A300 A300 RESTROOM - EAST
1/4" = 1'-0"



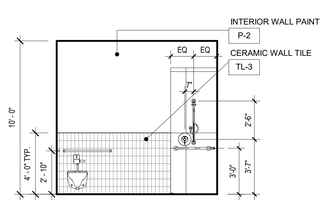
17 A300 A300 MENS RESTROOM - SOUTH
1/4" = 1'-0"



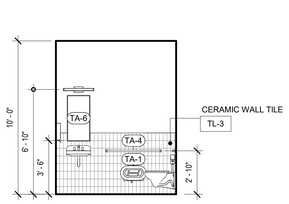
13 A300 A300 WOMENS RESTROOM - NORTH
1/4" = 1'-0"



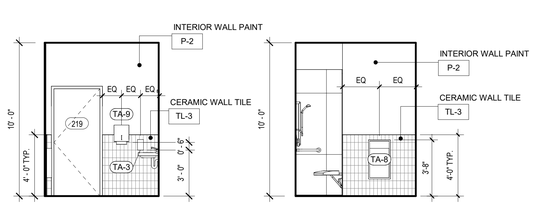
3 A211 A300 ENLARGED PLAN - PRIVATE TOILET ROOM
1/4" = 1'-0"



8 A300 A300 PVT TLT RM - WEST
1/4" = 1'-0"



6 A300 A300 PVT TLT RM - SOUTH
1/4" = 1'-0"



4 A300 A300 PVT TLT RM - EAST
1/4" = 1'-0"

1 A300 A300 PVT TLT RM - NORTH
1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH
TA-1	TOILET TISSUE DISPENSER	BOBRICK	B-2892	
TA-2	HAND DRYER	BOBRICK	B-7179	
TA-3	SOAP DISPENSER	BOBRICK	B-2012	
TA-4	ADA GRAB BAR - 42"	BOBRICK	B-5806	
TA-5	ADA GRAB BAR - 36"	BOBRICK	B-5806	
TA-6	BATHROOM MIRROR	BOBRICK	B-290	
TA-8	WALL RECESSED WASTE RECEPTACLE	BOBRICK	B-3644	
TA-9	PAPER TOWEL DISPENSER	BOBRICK	B-9262	

GENERAL NOTES

SHEET NOTES

1. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
2. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
3. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
4. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

102113	PLASTIC TOILET COMPARTMENTS

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122
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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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REVISIONS

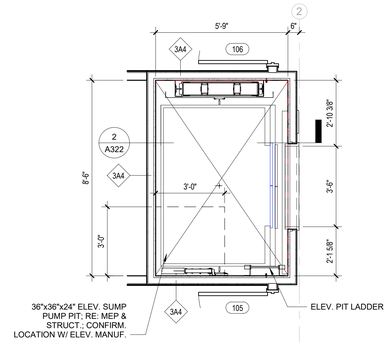
DOMINIC A. WILLARD JR. REG. No. 75208 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME
ENLARGED PLANS

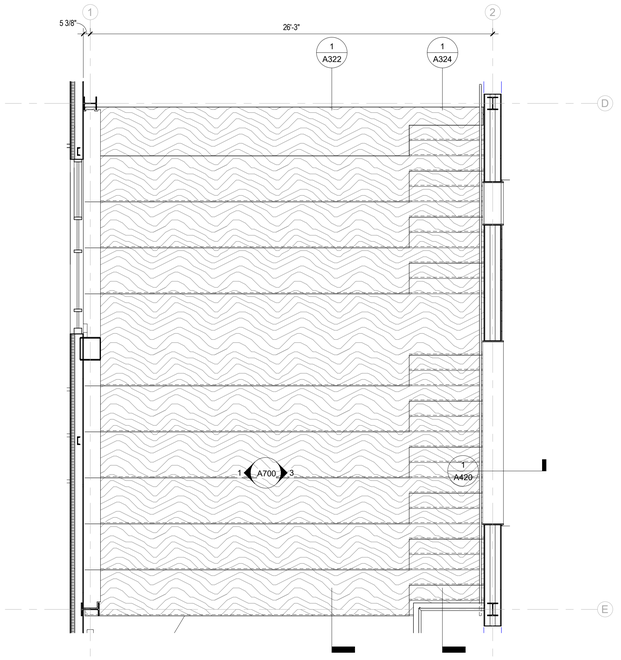
SHEET NO. A300

studio kiro



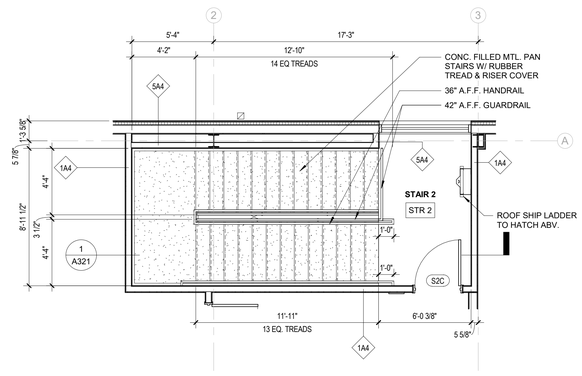
6 A300 | A320 ENLARGED PLAN - ELEVATOR - 1ST & 2ND FL

3/8" = 1'-0"



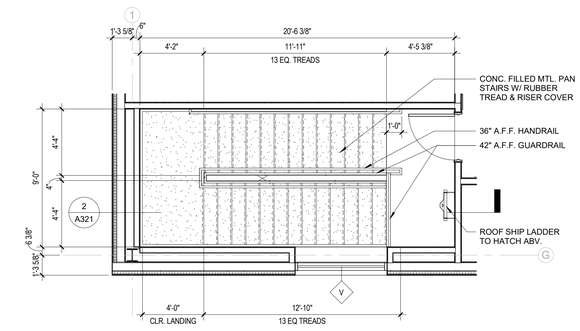
5 A320 ENLARGED PLAN - COLLAB. STAIR - 2ND FL

1/4" = 1'-0"



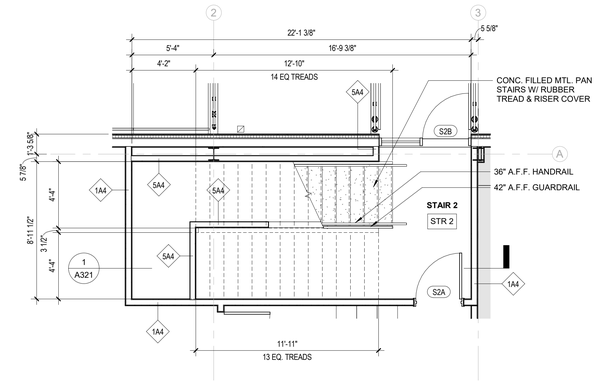
4 A211 | A320 ENLARGED PLAN - STAIR 2 - 2ND FL

1/4" = 1'-0"



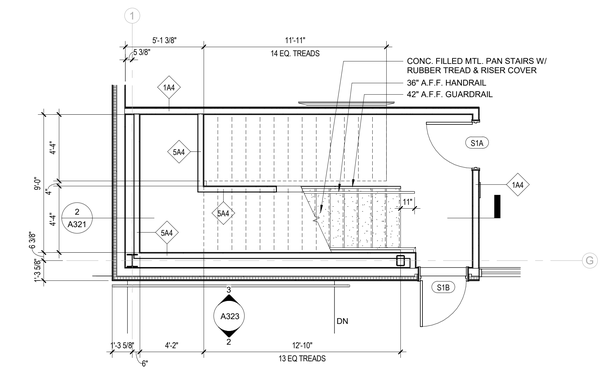
3 A211 | A320 ENLARGED PLAN - STAIR 1 - 2ND FL

1/4" = 1'-0"



2 A211 | A320 ENLARGED PLAN - STAIR 2 - 1ST FL

1/4" = 1'-0"



1 A211 | A320 ENLARGED PLAN - STAIR 1 - 1ST FL

1/4" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD, JR. REG. No. 38,444 STATE OF LOUISIANA REGISTERED ARCHITECT

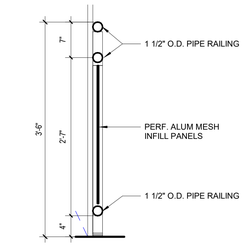
WDG Project No: 2024002

SHEET NAME

ENLARGED VERTICAL CIRCULATION DETAILS

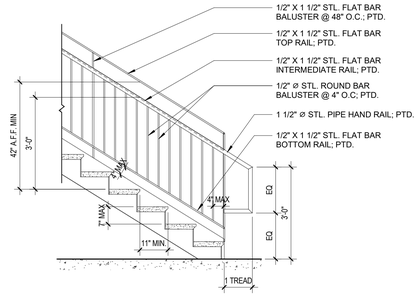
SHEET NO.

A320



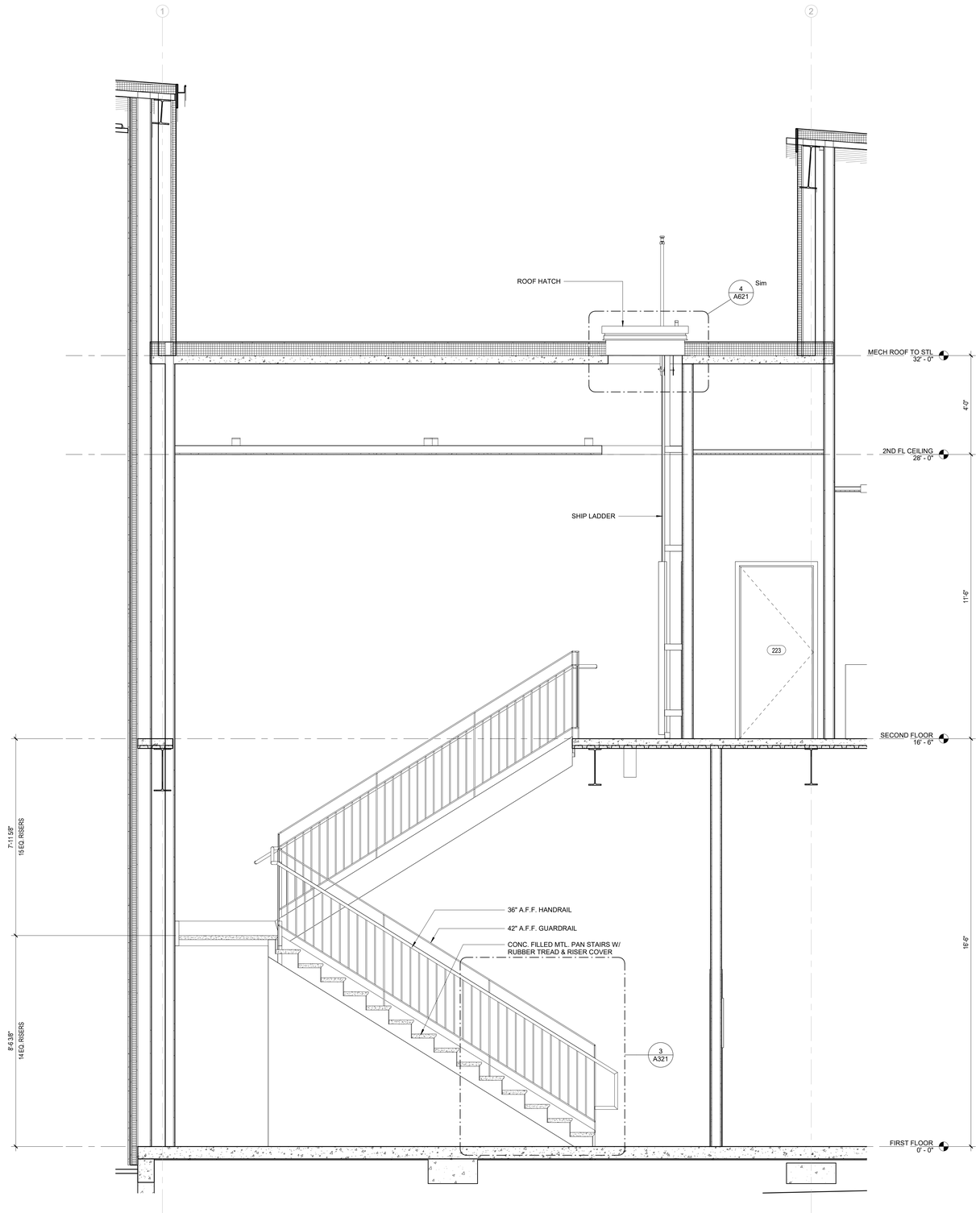
4 A211 A321 SECTION THRU EXTERIOR GUARDRAIL

1" = 1'-0"



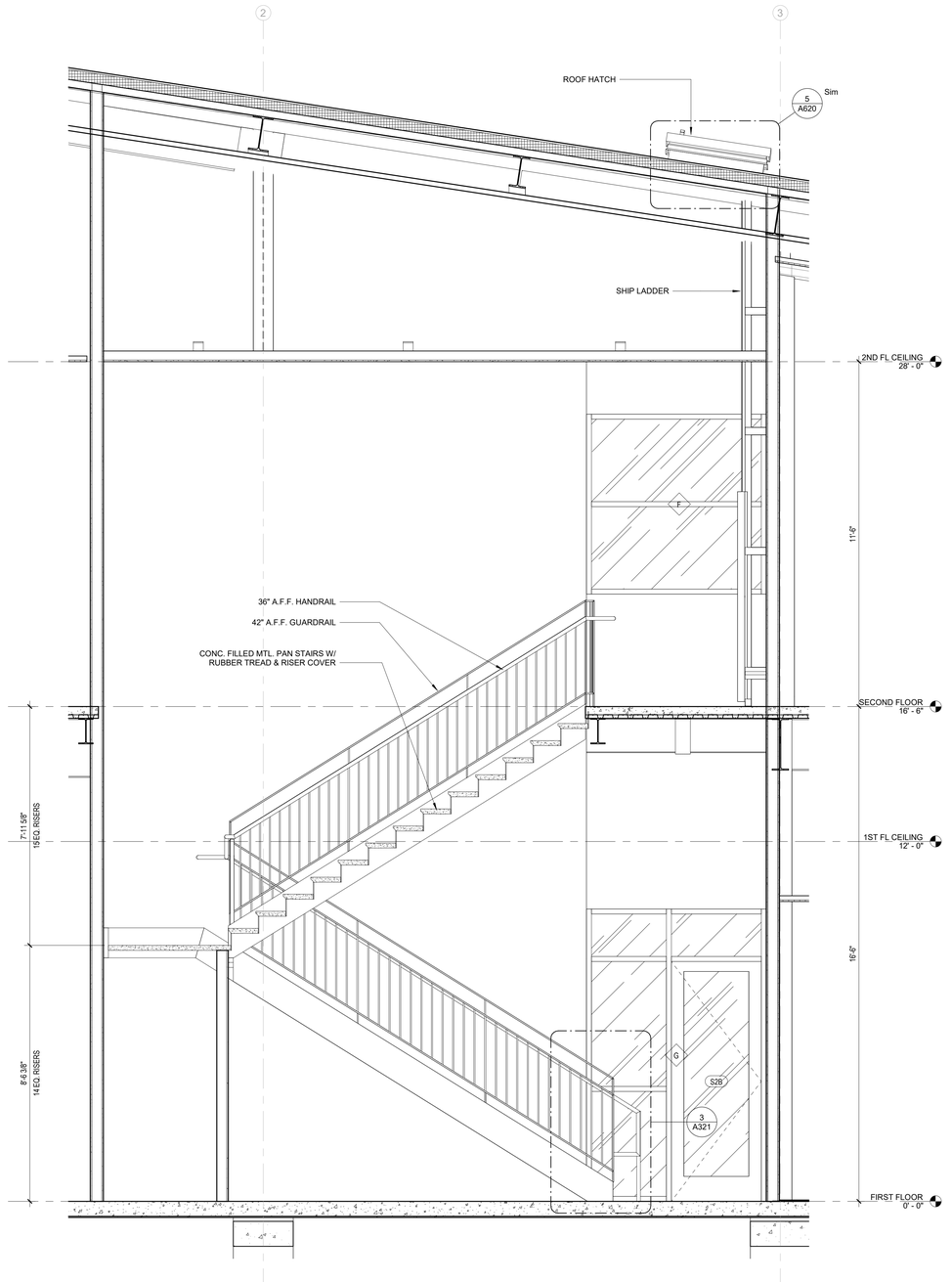
3 A321 A321 STAIR 1 & 2 TYP. RAILING DETAILS

1/2" = 1'-0"



2 A320 A321 SECTION @ STAIR 1

1/2" = 1'-0"



1 A320 A321 SECTION @ STAIR 2

1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

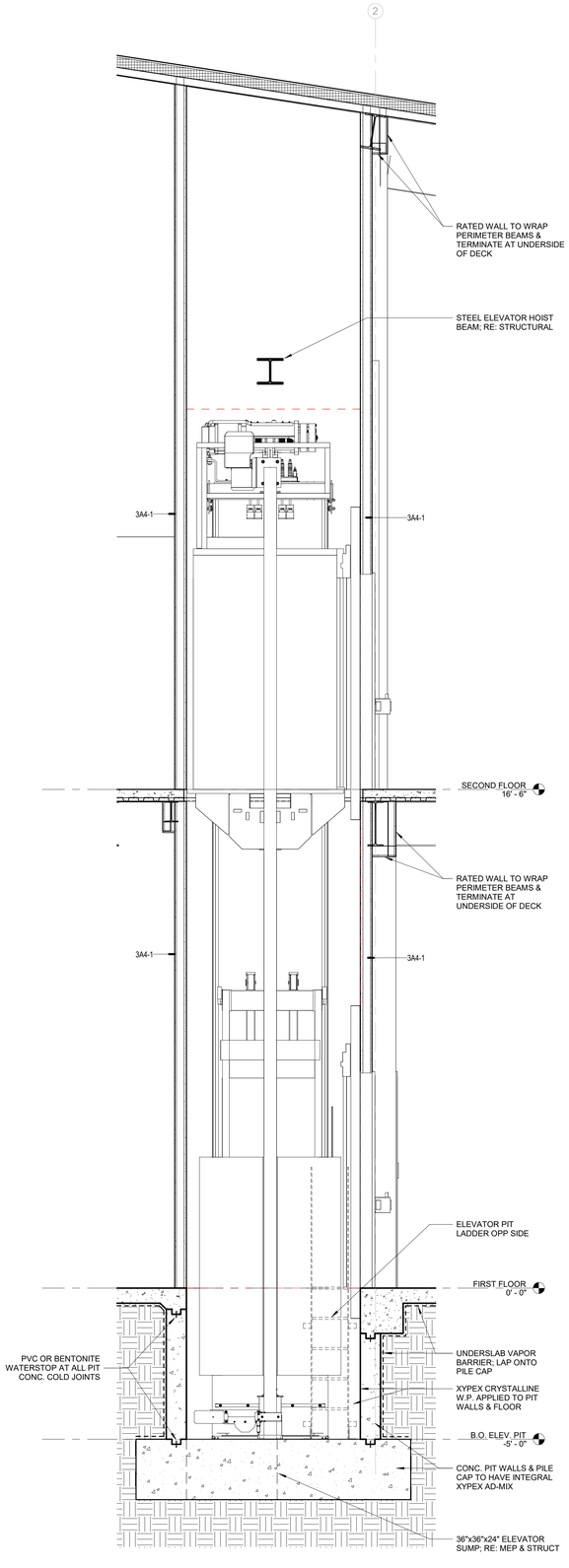
DOMINIC A. WILLARD, AIA
REG. No. 36106
STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

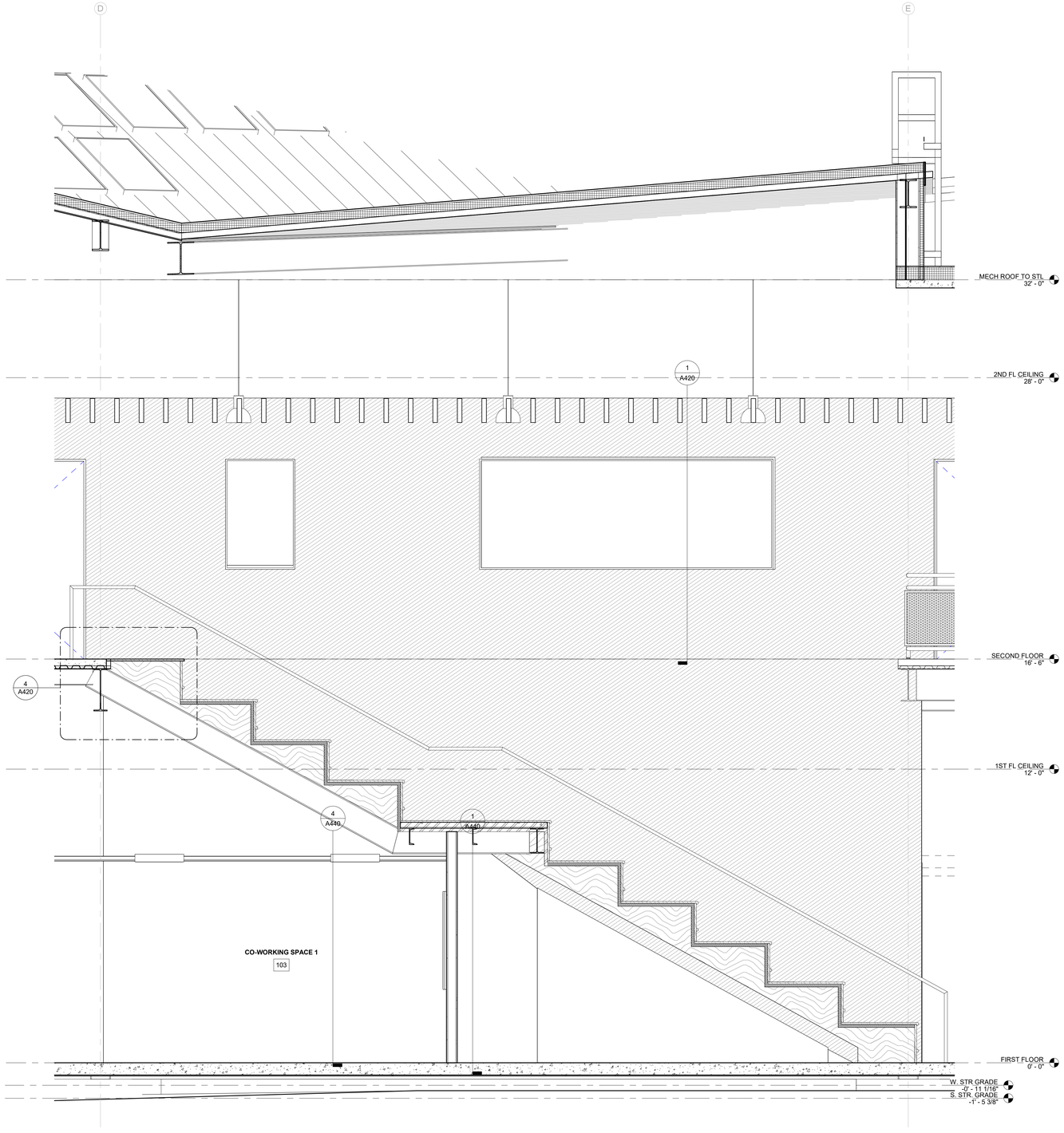
ENLARGED VERTICAL CIRCULATION DETAILS

SHEET NO. A321



2 A320 A322 SECTION @ ELEVATOR

1/2" = 1'-0"



1 A320 A322 SECTION @ COLLABORATIVE STAIRS

1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

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09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

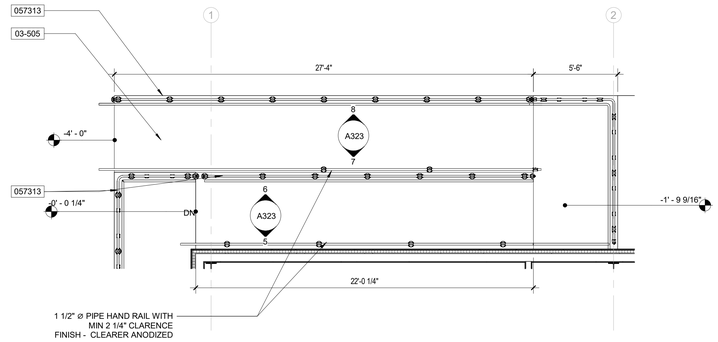
DOMINIC A. WILLARD #35 REG. No. 7321 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

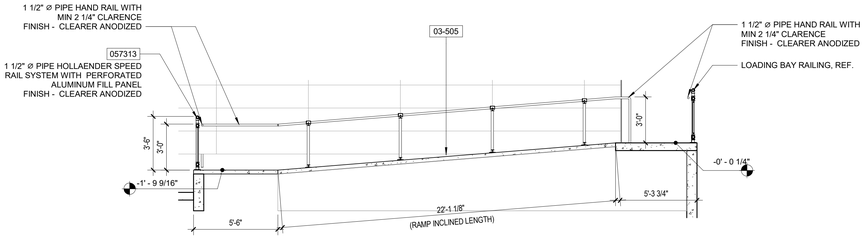
ENLARGED VERTICAL CIRCULATION DETAILS

SHEET NO. A322



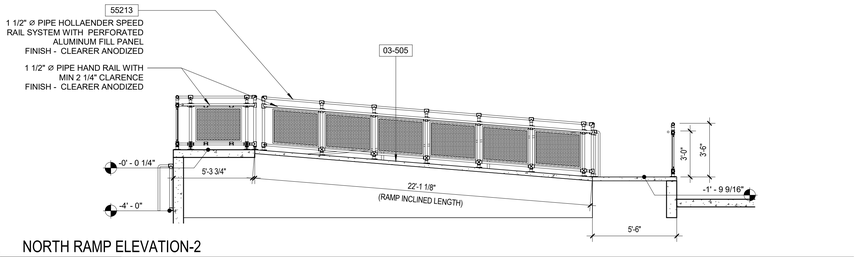
4 A211 A323 NORTH RAMP PLAN

1/4" = 1'-0"



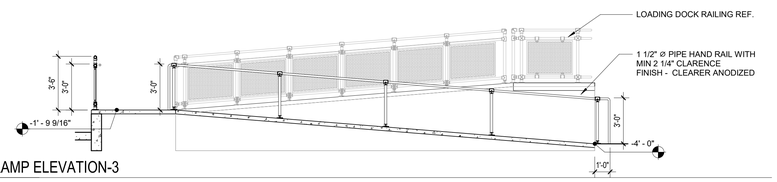
5 A320 A323 NORTH RAMP ELEVATION-1

1/4" = 1'-0"



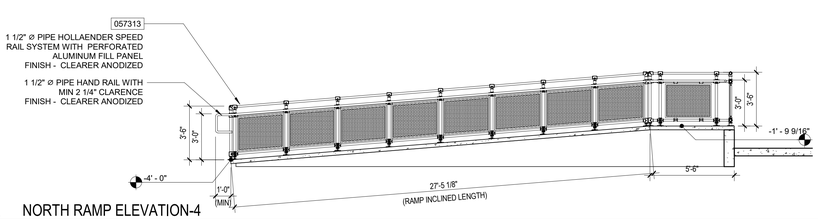
6 A320 A323 NORTH RAMP ELEVATION-2

1/4" = 1'-0"



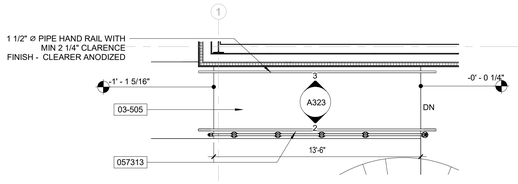
7 A323 A323 NORTH RAMP ELEVATION-3

1/4" = 1'-0"



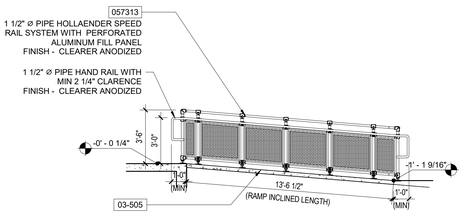
8 A323 A323 NORTH RAMP ELEVATION-4

1/4" = 1'-0"



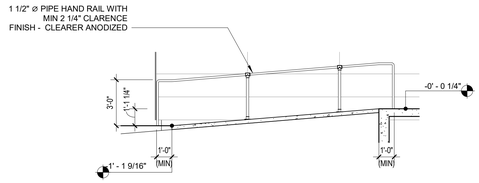
1 A211 A323 SOUTH RAMP PLAN

1/4" = 1'-0"



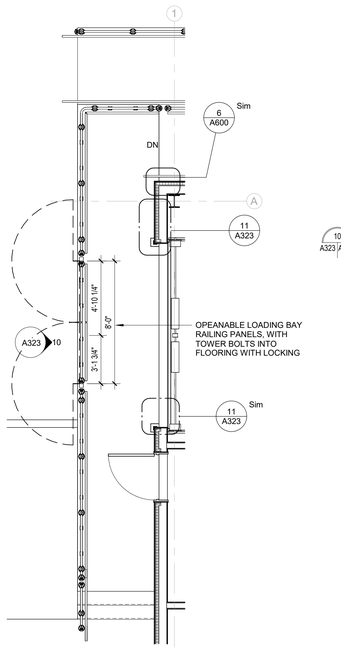
2 A320 A323 SOUTH RAMP GAURD RAIL ELEVATION

1/4" = 1'-0"



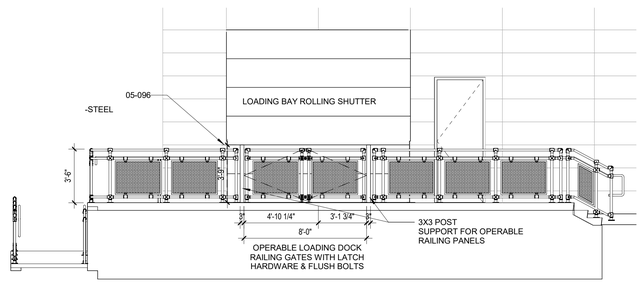
3 A320 A323 SOUTH RAMP GAURD RAIL ELEVATION 2

1/4" = 1'-0"



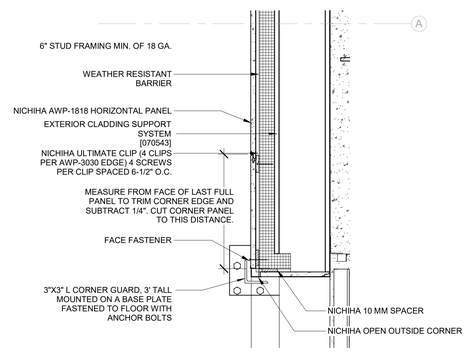
9 A211 A323 LOADING BAY - PLAN

1/4" = 1'-0"



10 A323 A323 LOADING BAY RAILING DETAILS

1/4" = 1'-0"



11 A323 A323 LOADING BAY CORNER DETAIL

1 1/2" = 1'-0"

GENERAL NOTES

SHEET NOTES

03-505	
05-096	
55213	
057313	DECORATIVE METAL RAILINGS EXTERIOR
070543	EXTERIOR CLADDING SUPPORT SYSTEM

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
19/01/2026	PERMIT SET
01/19/2026	PERMIT SET

REVISIONS

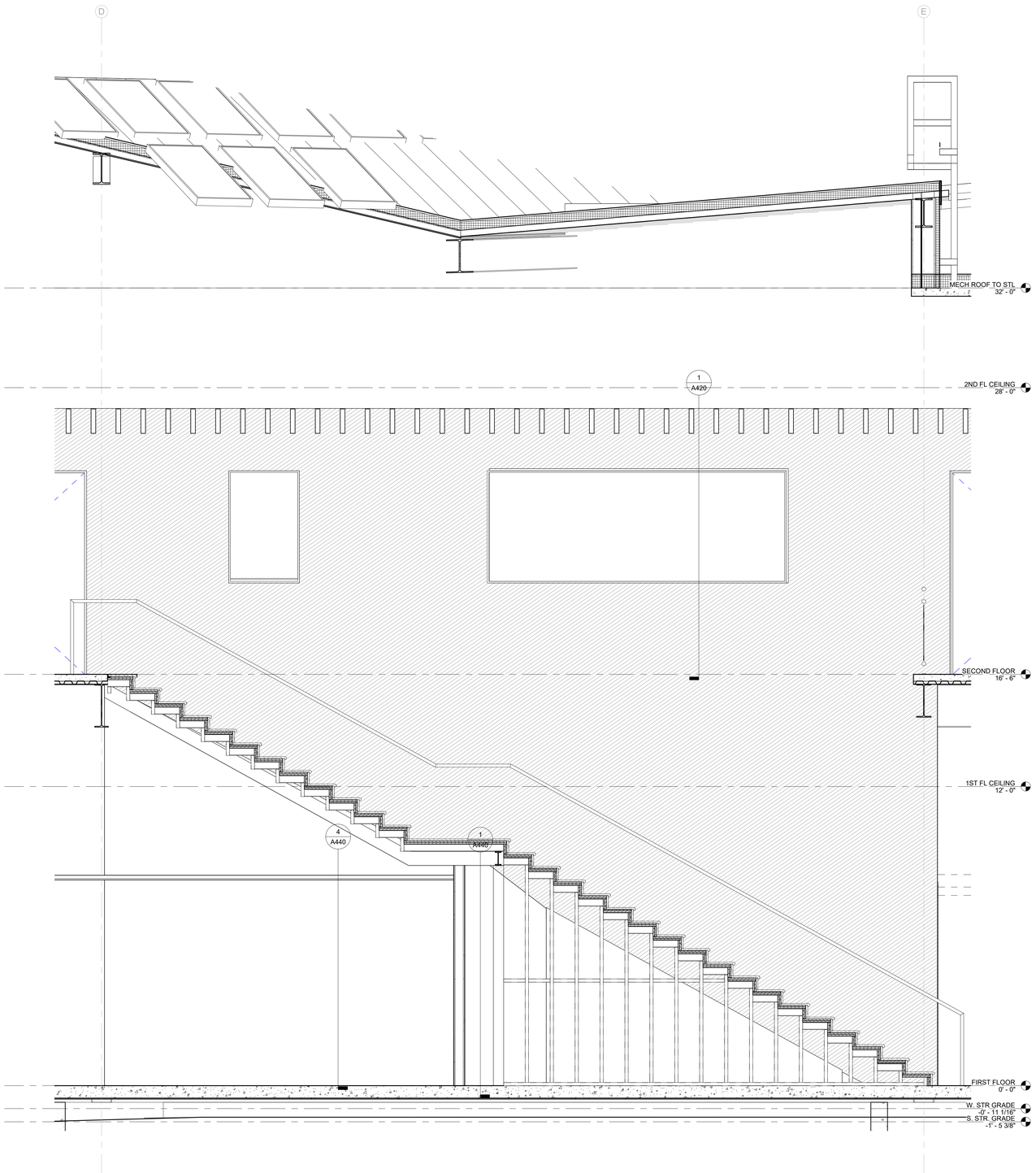
DOMINIC A. WILLARD, III
REG. No. 34
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

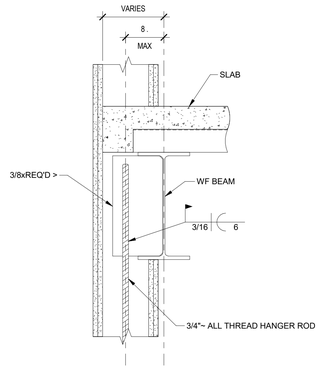
ENLARGED VERTICAL CIRCULATION DETAILS

SHEET NO. A323

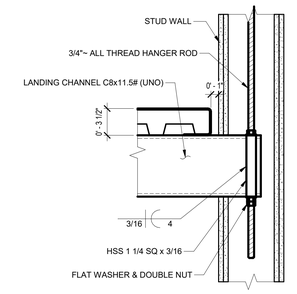


1 A320 A324 SECTION @ COLLABORATIVE STAIR

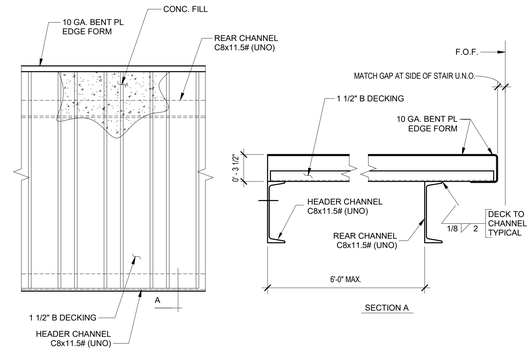
1/2" = 1'-0"



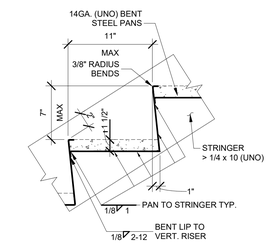
ST-001 HANGER ROD CONNECTION FROM SIDE OF STRUCTURAL STEEL
1.SEE ST-003 FOR LANDING CONSTRUCTION



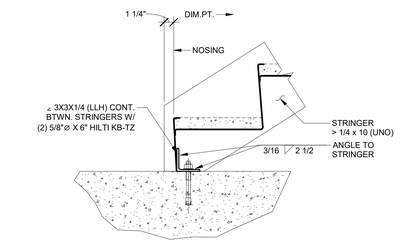
ST-002 HANGER ROD CONNECTION
1.SEE ST-003 FOR LANDING CONSTRUCTION



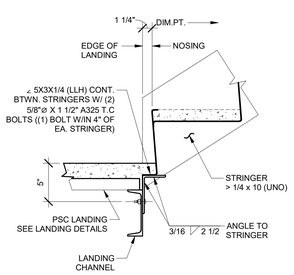
ST-003 LANDING CONSTRUCTION



ST-004 TREAD/ RISER CONSTRUCTION

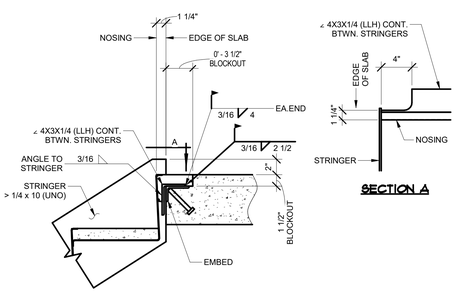


ST-005 CONNECTION TO CONCRETE SLAB WITH ANCHOR
SEE ST-004 FOR TREAD / RISER CONSTRUCTION



ST-006 STANDARD BOTTOM CONNECTION TO STEEL LANDING

01. SEE ST-004 FOR TREAD / RISER CONSTRUCTION
02. SEE ST-003 FOR LANDING CONSTRUCTION



ST-007 STANDARD TOP CONNECTION TO EMBED

01. SEE ST-004 FOR TREAD / RISER CONSTRUCTION

2 A324 Stair Details

1 1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

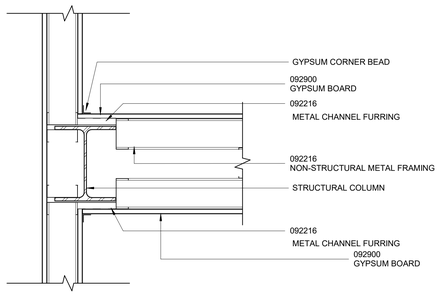
DOMINIC A. WILLARD, III
LIC. No. 37908
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

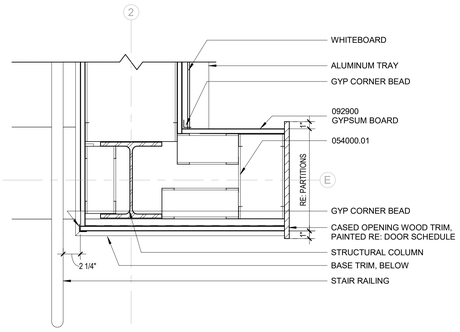
ENLARGED VERTICAL CIRCULATION DETAILS

SHEET NO. A324



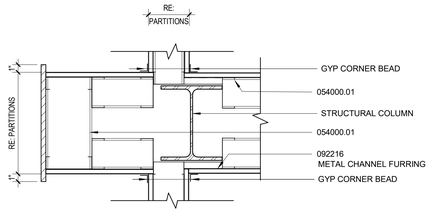
1 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



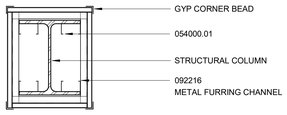
2 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



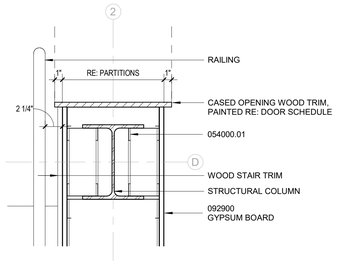
3 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



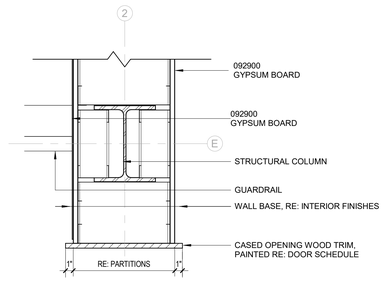
5 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



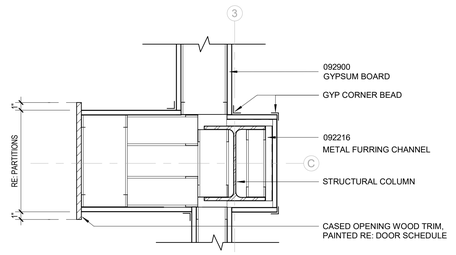
6 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



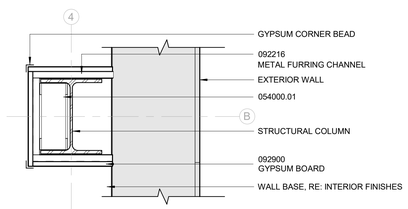
7 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



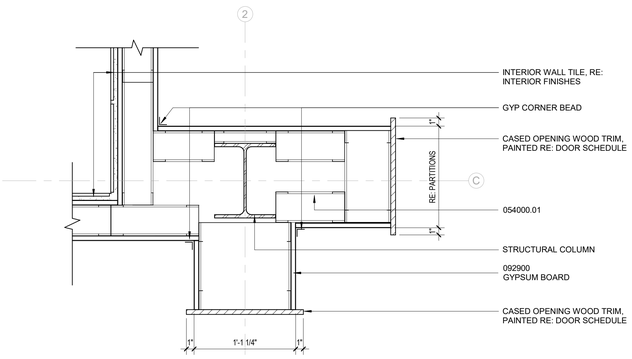
8 A211 | A410 DETAIL - FURROUT AROUND COLUMN W/ CASEWORK

1 1/2" = 1'-0"



9 A211 | A410 DETAIL - FURROUT AROUND COLUMN

1 1/2" = 1'-0"



10 A211 | A410 DETAIL - FURROUT AROUND COLUMN W/ CASEWORK

1 1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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REVISIONS

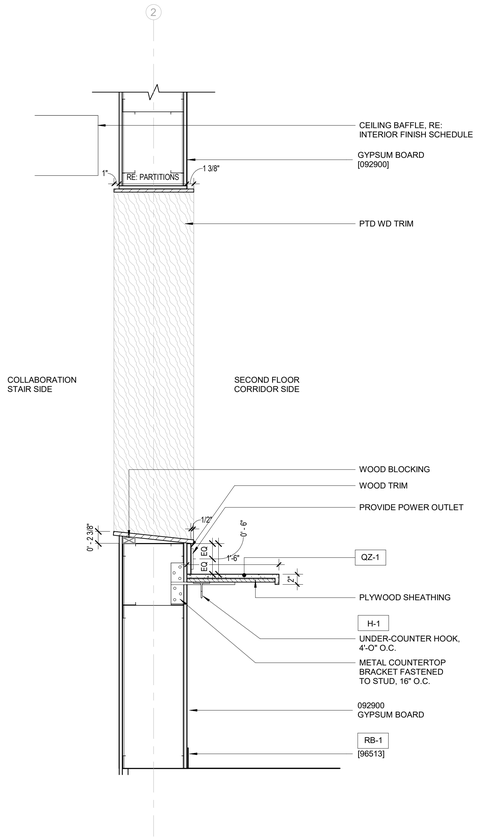
WDG Project No: 2024002

SHEET NAME

INTERIOR PLAN DETAILS

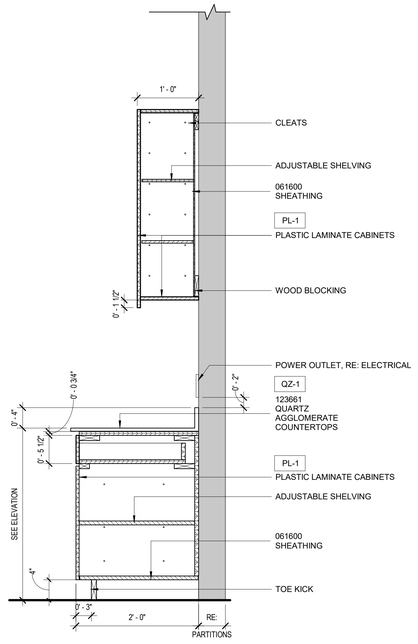
SHEET NO. A410

studio kiro



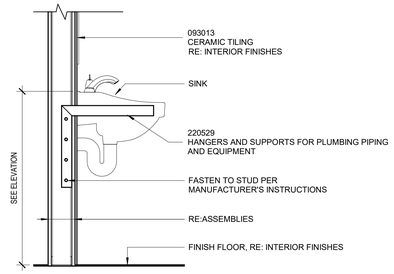
1 A211 | A420 SECTION THRU WALL OPENING

1" = 1'-0"



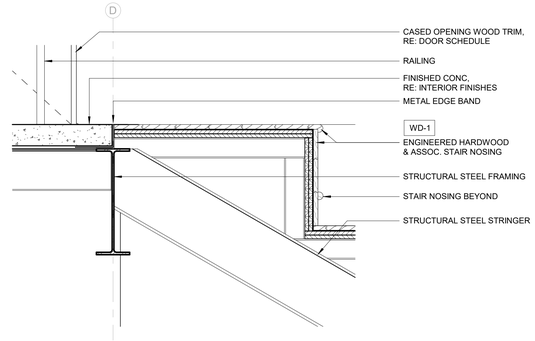
2 A702 | A420 SECTION THRU KITCHENETTE

1" = 1'-0"



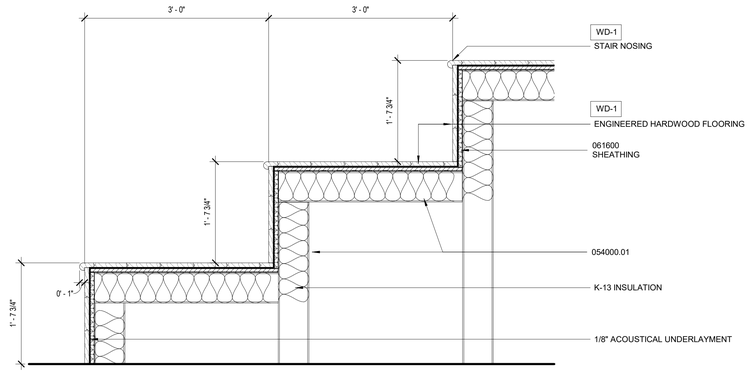
3 A300 | A420 SECTION THRU BATHROOM SINK

1" = 1'-0"



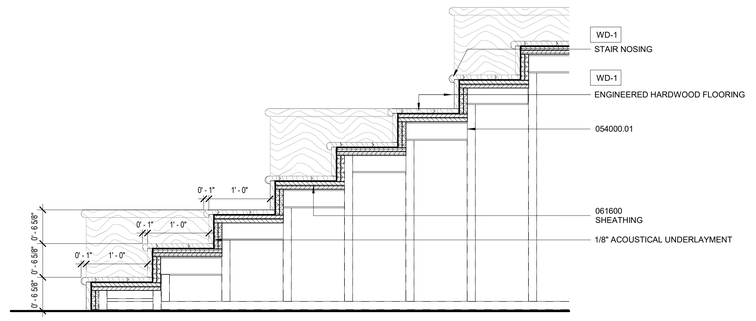
4 A322 | A420 SECTION THRU COLLABORATIVE STAIR

1" = 1'-0"



5 A211 | A420 COLLABORATIVE STAIR DETAIL - SEATING

1" = 1'-0"



6 A211 | A420 COLLABORATIVE STAIR SECTION

1" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

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REVISIONS

DOMINIC A. WILLARD, JR. Reg. No. 38014 STATE OF LOUISIANA REGISTERED ARCHITECT

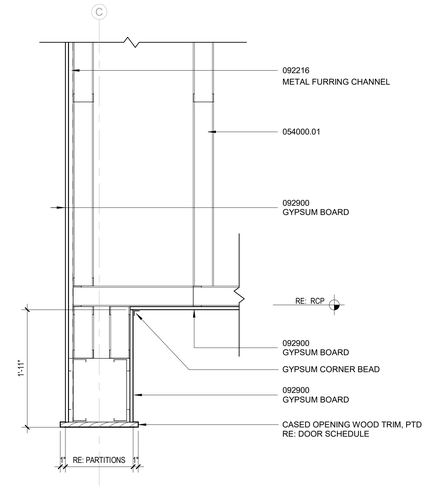
WDG Project No: 2024002

SHEET NAME

INTERIOR SECTION DETAILS

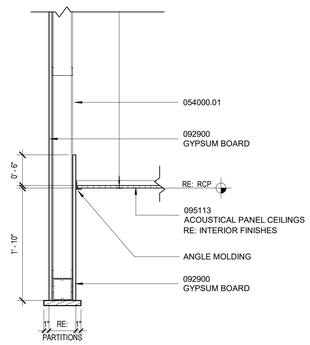
SHEET NO. A420

studio kiro



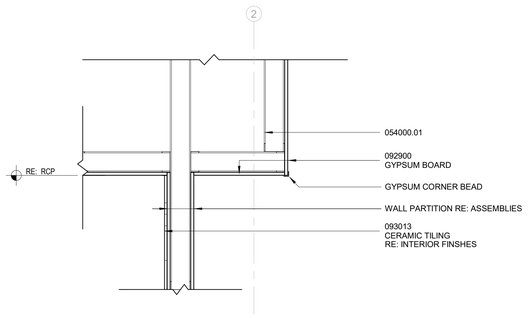
1 A231 A430 SECTION THRU CORRIDOR CASED OPENING

1" = 1'-0"



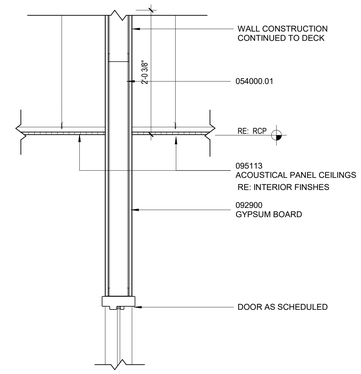
2 A231 A430 SECTION THRU OFFICE COORIDOR OPENING

1" = 1'-0"



3 A231 A430 BATHROOM TO SOFFIT TRANSITION DETAIL

1" = 1'-0"



4 A231 A430 ACT TRANSITION THRU STOREFRONT

1" = 1'-0"

5 A231 A430 Detail 24

1" = 1'-0"

6 A430 ACT TO WALL TRANSITION

1" = 1'-0"

7 A430 ACT TRANSITION TO GYP. SOFFIT DTL.

1" = 1'-0"

8 A231 A430 SECTION THRU COLLAB CASEWORK

1" = 1'-0"

WILLARD DESIGN GROUP
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REVISIONS

DOMINIC A. WILLARD, AIA
REG. No. 39361
STATE OF LOUISIANA

WDG Project No: 2024002

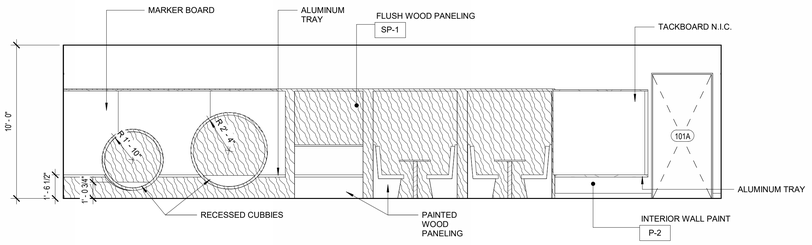
SHEET NAME

CELIING DETAILS

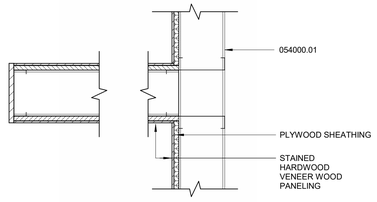
SHEET NO. A430

studio kiro

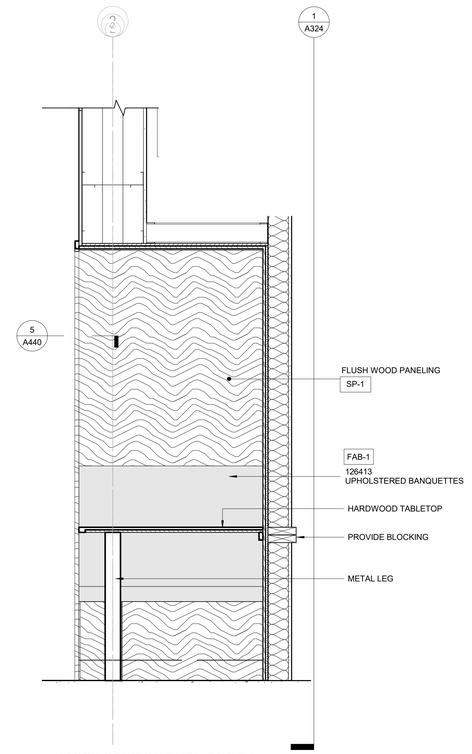
2 A440 MILLWORK AXON



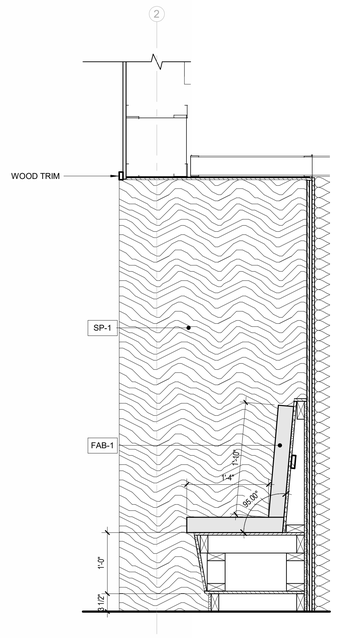
7 A700 A440 ELEVATION - FLEX SPACE BOOTH SEATING
1/4" = 1'-0"



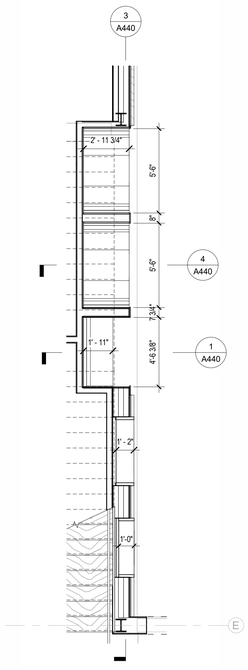
5 A440 A440 PLAN DETAIL AT BOOTH PARTITION
1 1/2" = 1'-0"



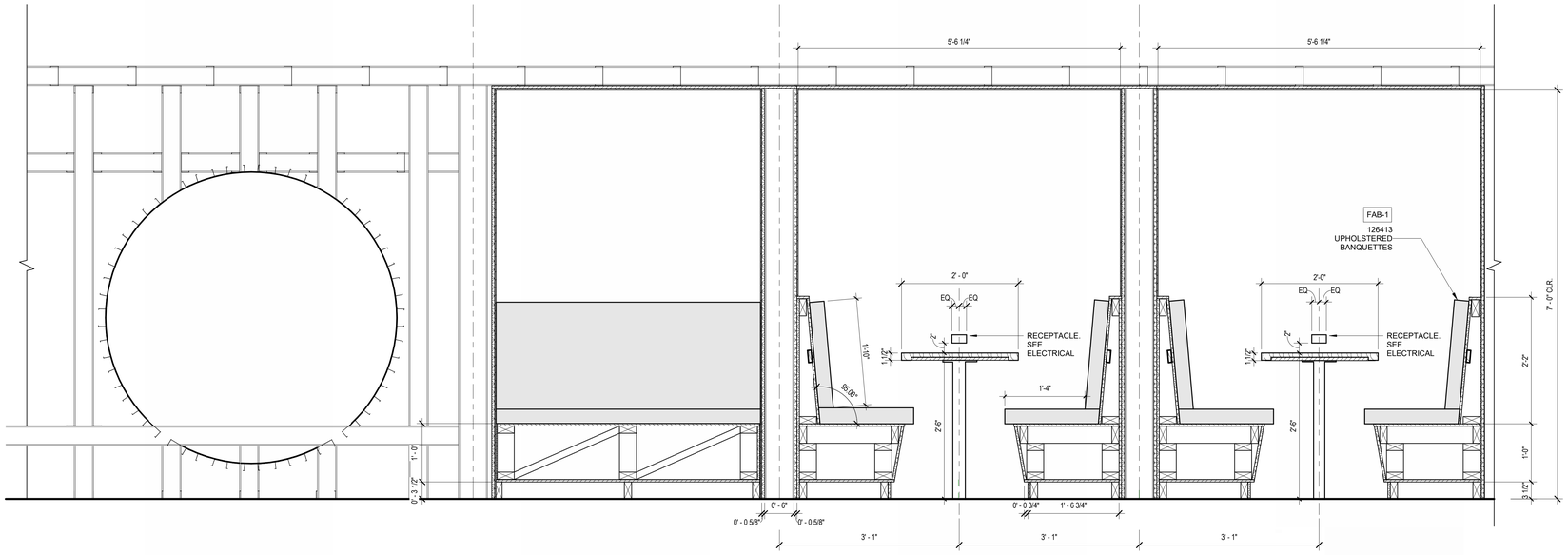
4 A322 A440 CROSS SECTION THRU BOOTH
1" = 1'-0"



1 A322 A440 SECTION THRU BENCH
1" = 1'-0"



6 A211 A440 ENLARGED PLAN - FLEX SPACE BOOTH SEATING
1/4" = 1'-0"



3 A440 A440 SECTION THRU BOOTH
1" = 1'-0"

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WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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REVISIONS

DOMINIC A. WILLARD, VA REG. No. 7529 STATE OF LOUISIANA

WDG Project No: 2024002

SHEET NAME

MILLWORK DETAILS

SHEET NO. A440

5 A500 SW PERSPECTIVE
NTS

1 A500 SE PERSPECTIVE
NTS

2 A500 NW PERSPECTIVE
NTS

3 A500 NE PERSPECTIVE
NTS

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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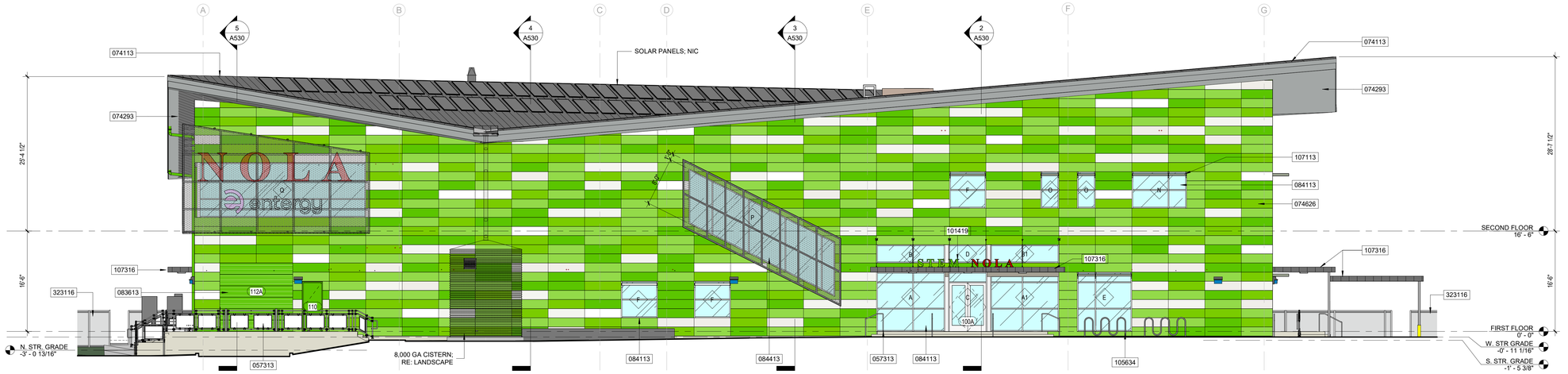
REVISIONS

DOMINIC A. WILLARD, REG. No. 7828, STATE OF LOUISIANA, ARCHITECT

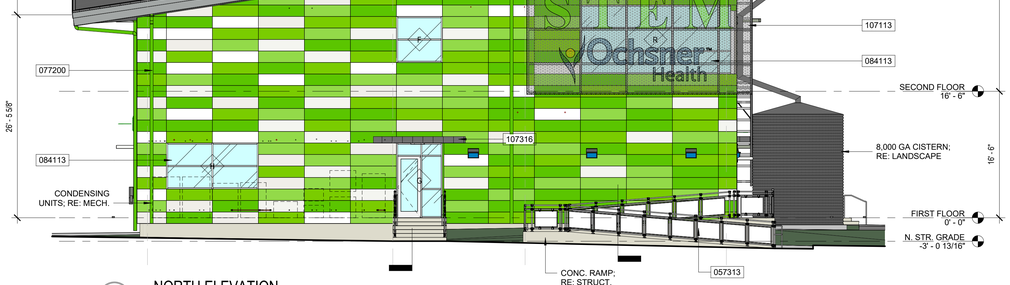
WDG Project No: 2024002

SHEET NAME
AXONS & PERSPECTIVES

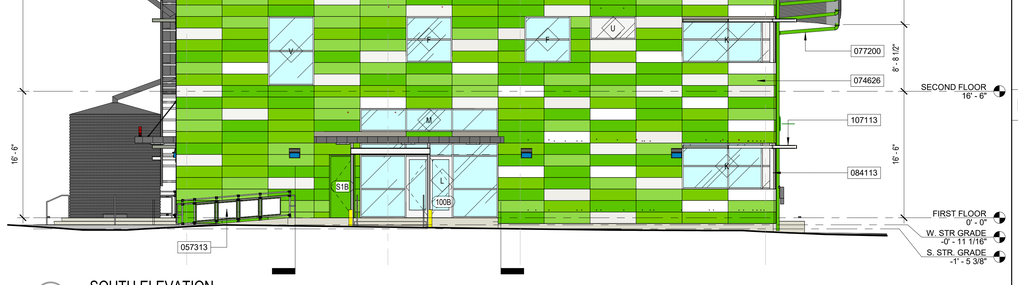
SHEET NO. A500



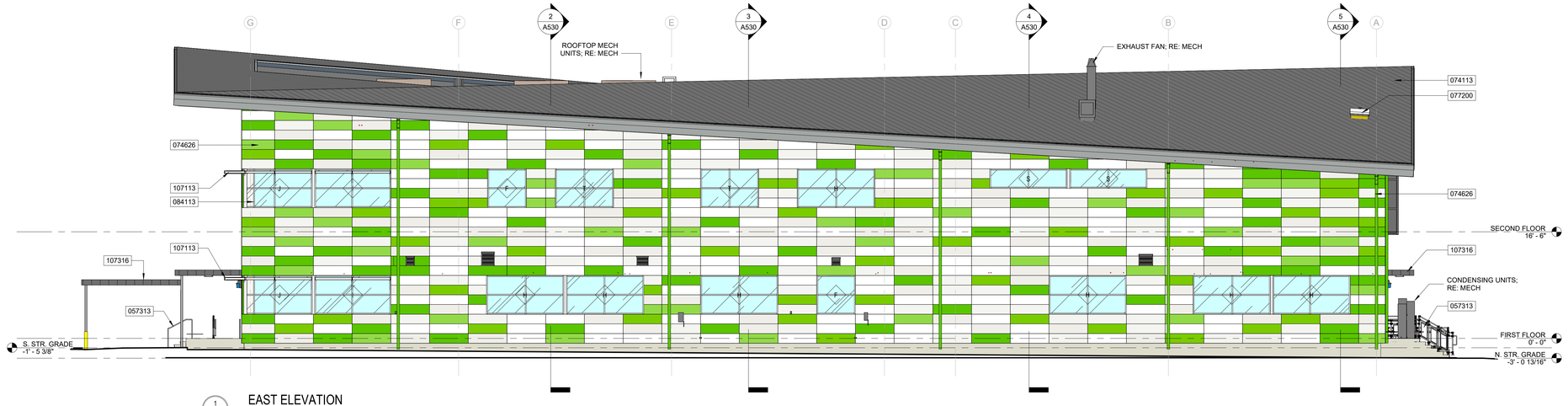
4 A211 A510 WEST ELEVATION 1/8" = 1'-0"



2 A211 A510 NORTH ELEVATION 1/8" = 1'-0"



3 A211 A510 SOUTH ELEVATION 1/8" = 1'-0"



1 A211 A510 EAST ELEVATION 1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

057313	DECORATIVE METAL RAILINGS EXTERIOR
074113	STANDING-SEAM METAL ROOF PANELS
074293	METAL SOFFIT PANELS
074626	CEMENTITIOUS WALL PANELS
077200	ROOF ACCESSORIES
083613	SECTIONAL DOORS, STEEL
084113	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
084413	GLAZED ALUMINUM CURTAIN WALLS
101419	DIMENSIONAL LETTER SIGNAGE
105634	BICYCLE STORAGE RACKS
107113	EXTERIOR FIXED SUN SCREENS
107316	CANOPIES, HANGER SUPPORTED
323116	WELDED WIRE FENCES AND GATES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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REVISIONS

DOMINIC A. WILLARD REG. No. 36240 STATE OF LOUISIANA REGISTERED ARCHITECT

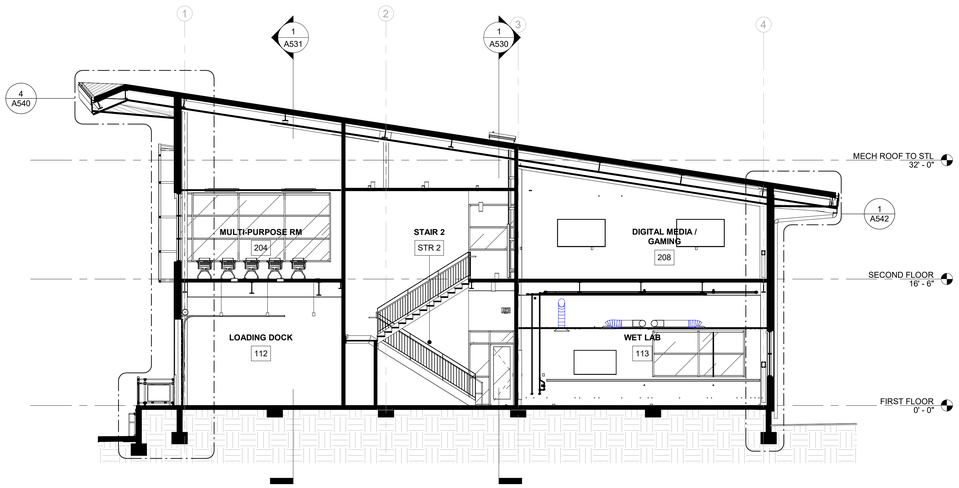
WDG Project No: 2024002

SHEET NAME

EXTERIOR ELEVATIONS

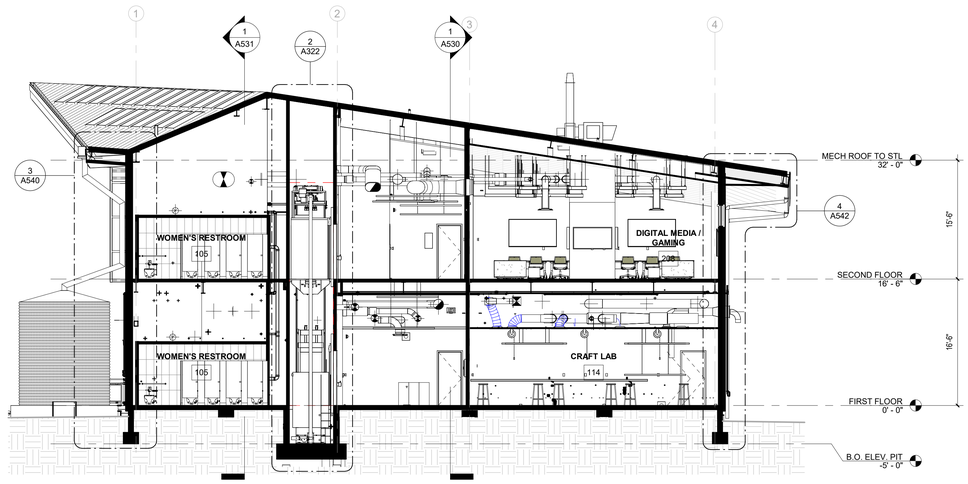
SHEET NO.

A510



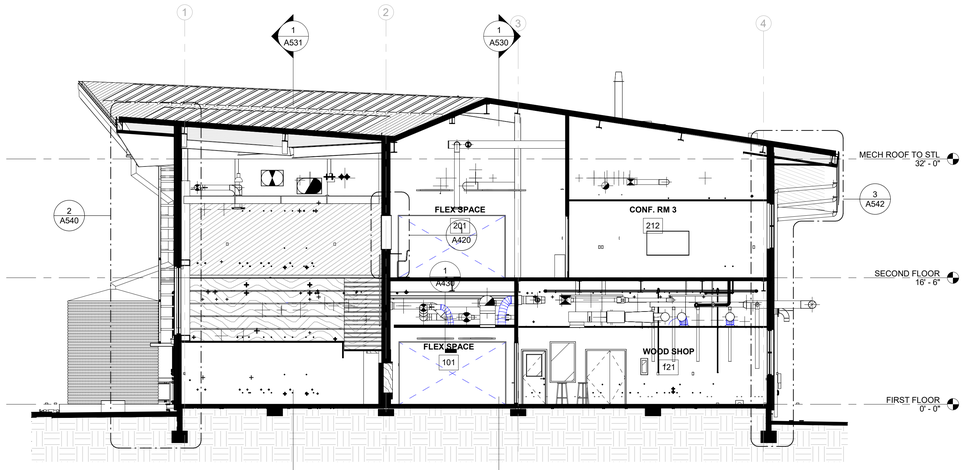
5 A211 | A530 TRANSVERSE BUILDING SECTION 4

1/8" = 1'-0"



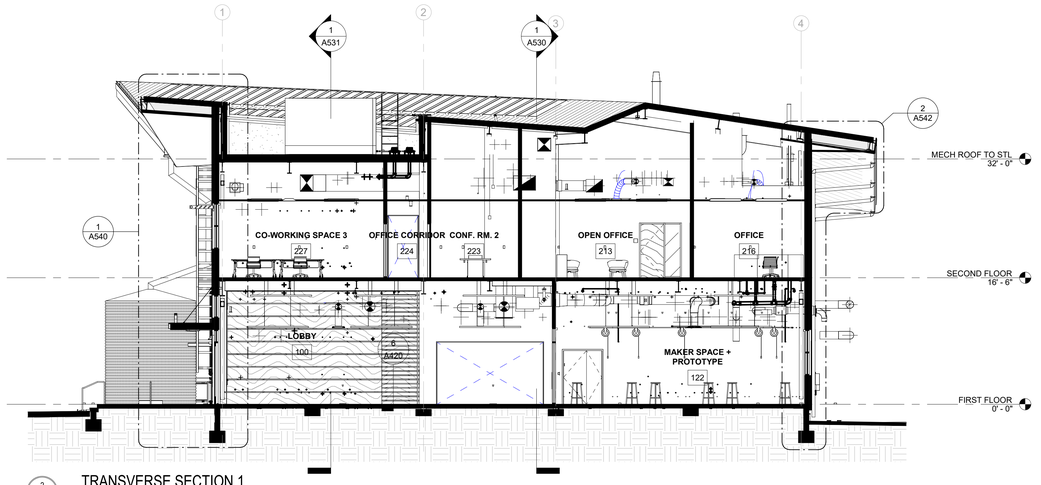
4 A211 | A530 TRANSVERSE BUILDING SECTION 3

1/8" = 1'-0"



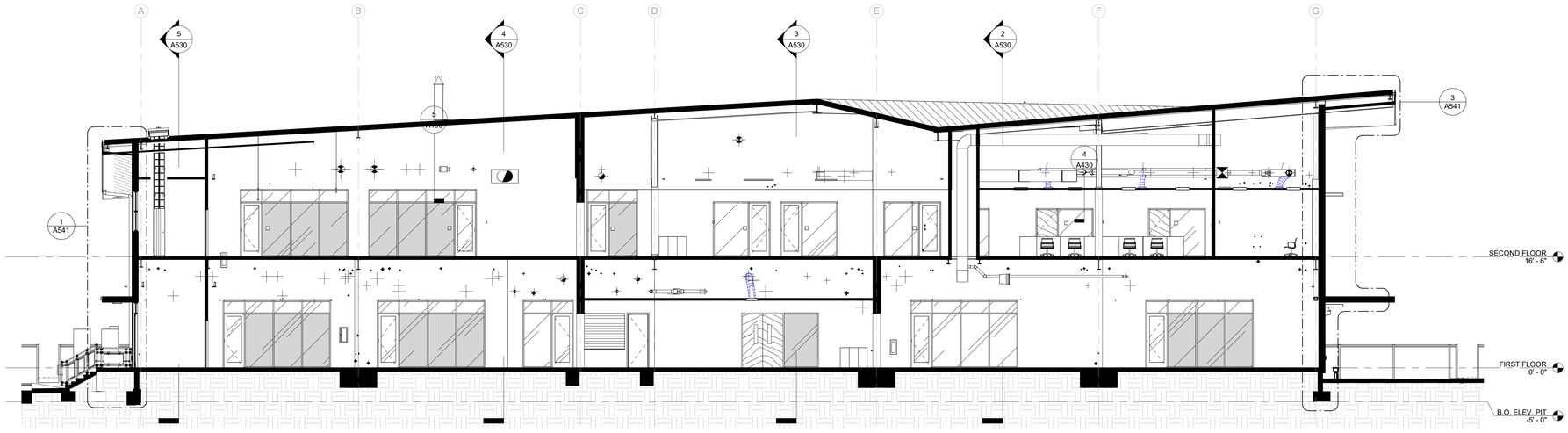
3 A211 | A530 TRANSVERSE BUILDING SECTION 2

1/8" = 1'-0"



2 A211 | A530 TRANSVERSE SECTION 1

1/8" = 1'-0"



1 A211 | A530 LONGITUDINAL BUILDING SECTION 1

1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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REVISIONS

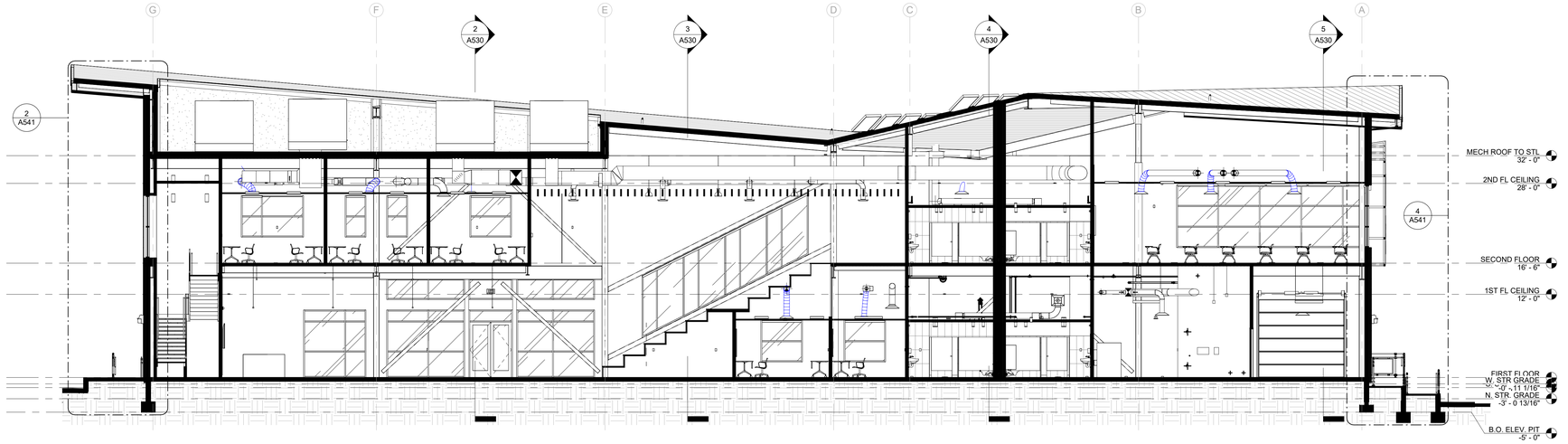
DOMINIC A. WILLARD REG. No. 75230 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

BUILDING SECTIONS

SHEET NO. A530



1
A211 | A531

LONGITUDINAL BUILDING SECTION 2

1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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REVISIONS

DOMINIC A. WILLARD, VA
REG. No. 7529
STATE OF LOUISIANA
REGISTERED ARCHITECT

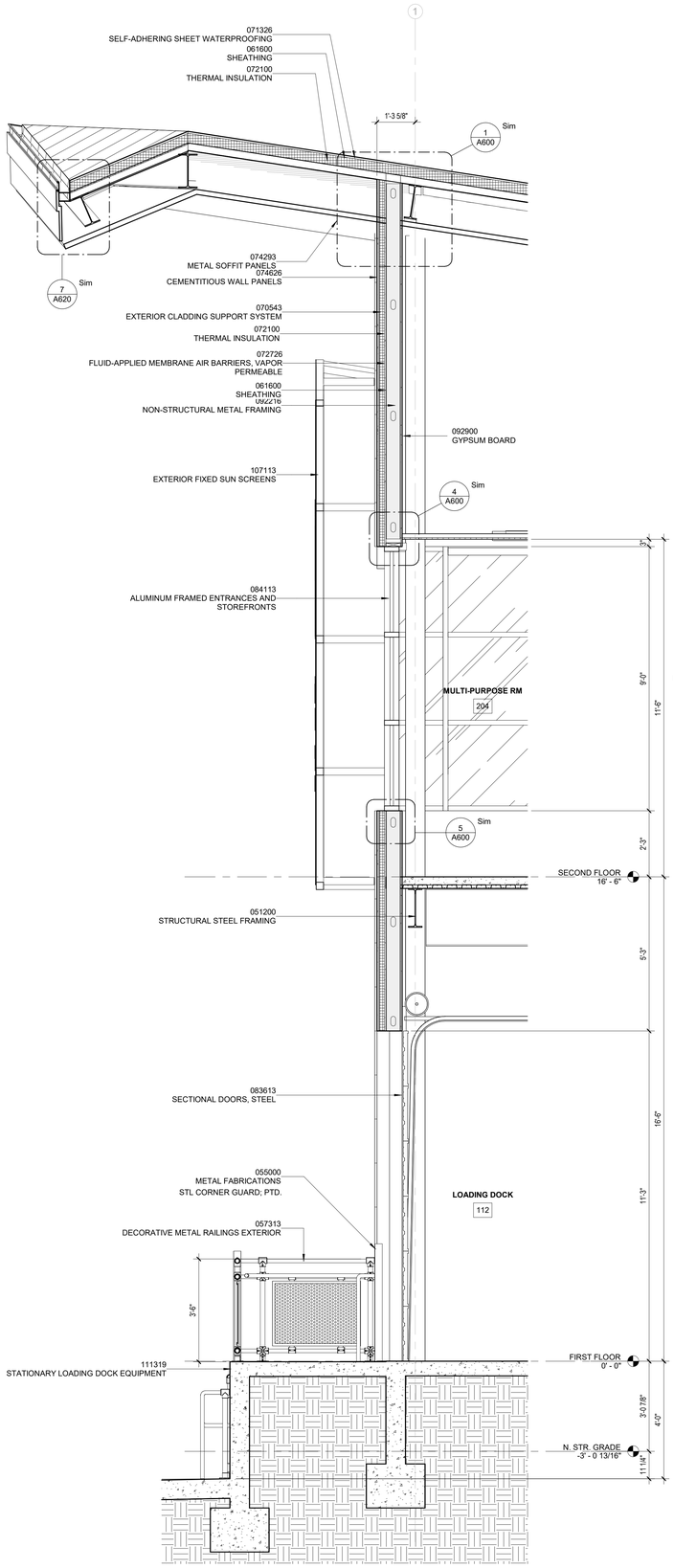
WDG Project No: 2024002

SHEET NAME

BUILDING SECTIONS

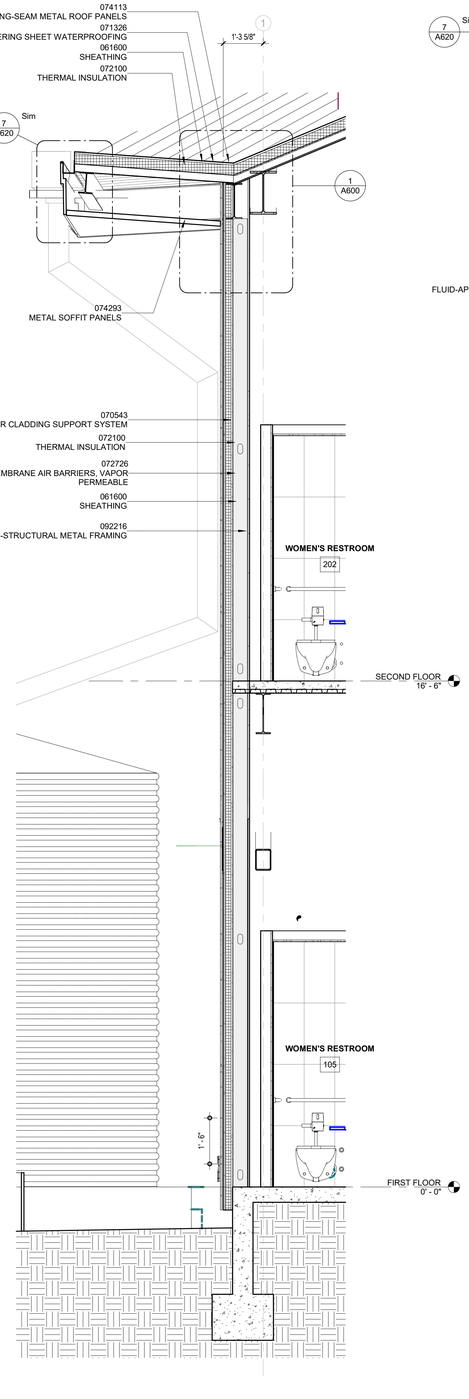
SHEET NO.

A531



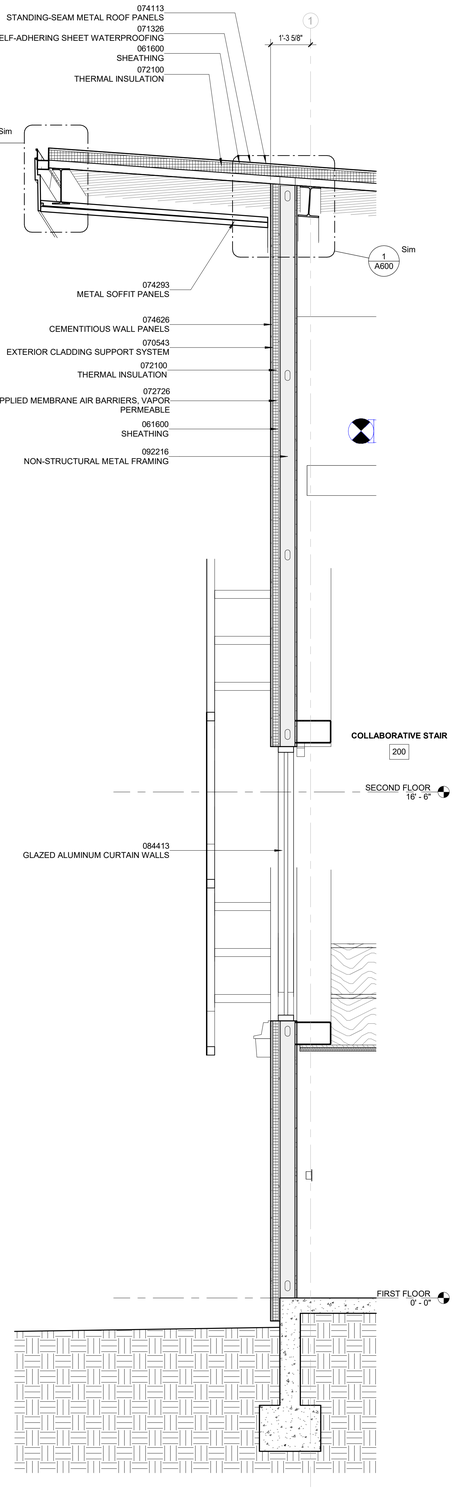
4 A530 A540 WALL SECTION @ WEST WALL - LOADING DOCK

1/2" = 1'-0"



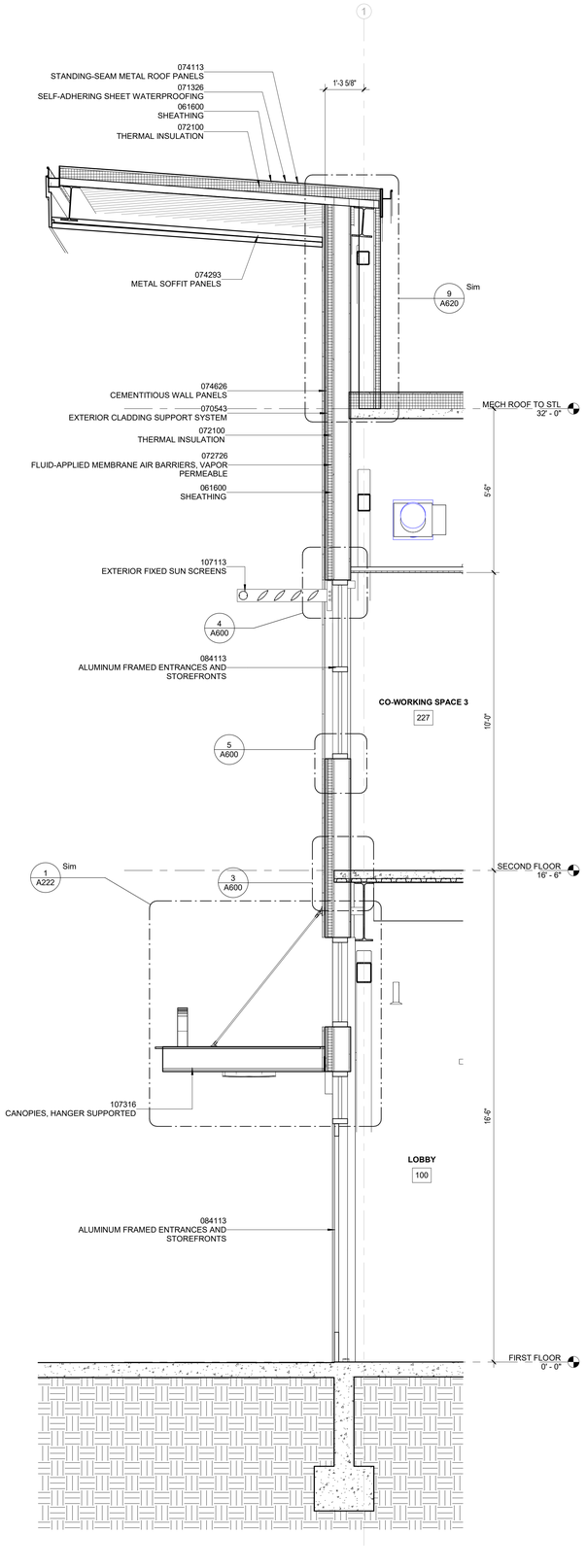
3 A530 A540 WALL SECTION @ WEST WALL - TOILET RMS

1/2" = 1'-0"



2 A530 A540 WALL SECTION @ WEST WALL - COLLAB STAIR

1/2" = 1'-0"



1 A530 A540 WALL SECTION @ WEST WALL - MAIN ENTRANCE

1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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REVISIONS

DOMINIC A. WILLARD JR. REG. No. 7529 STATE OF LOUISIANA REGISTERED ARCHITECT

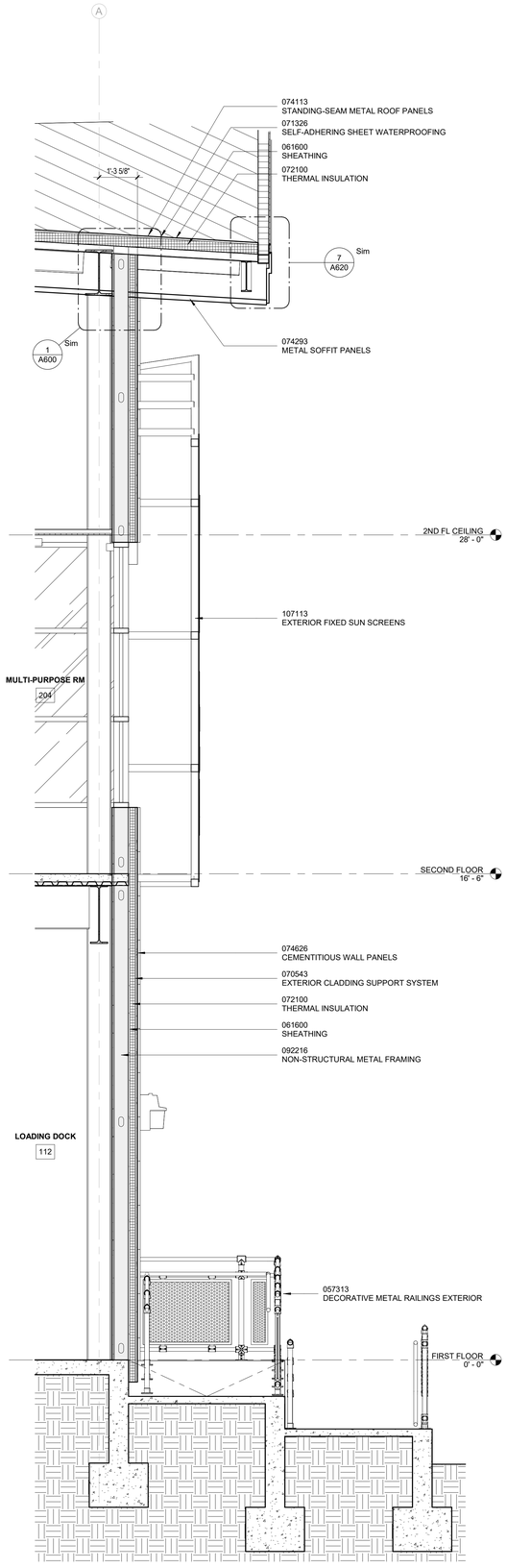
WDG Project No: 2024002

SHEET NAME

WALL SECTIONS

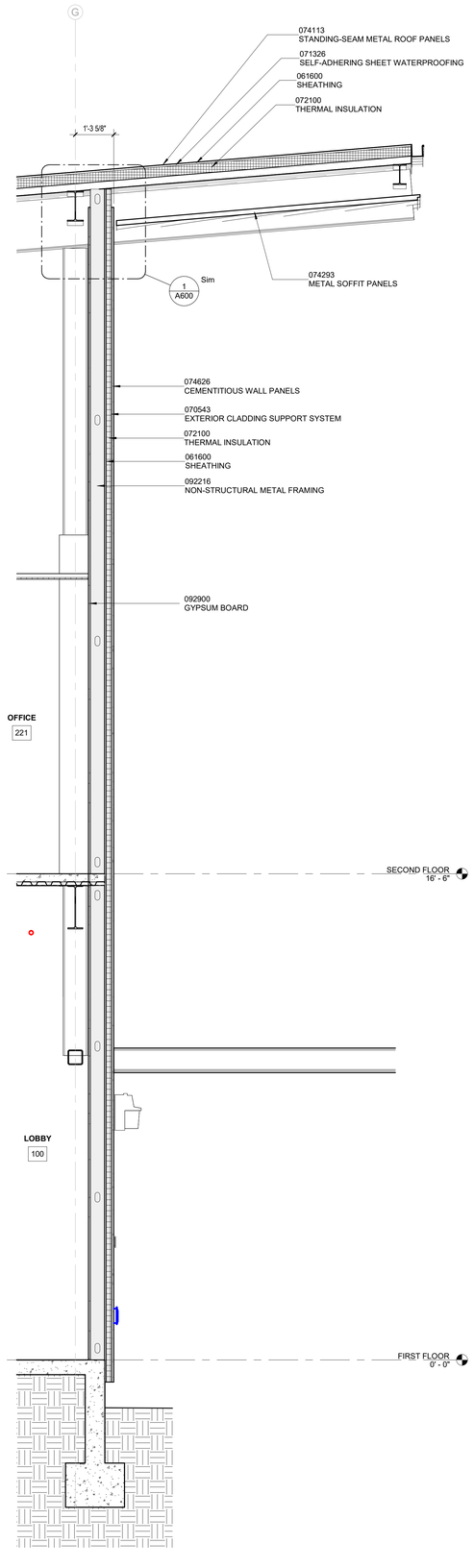
SHEET NO.

A540



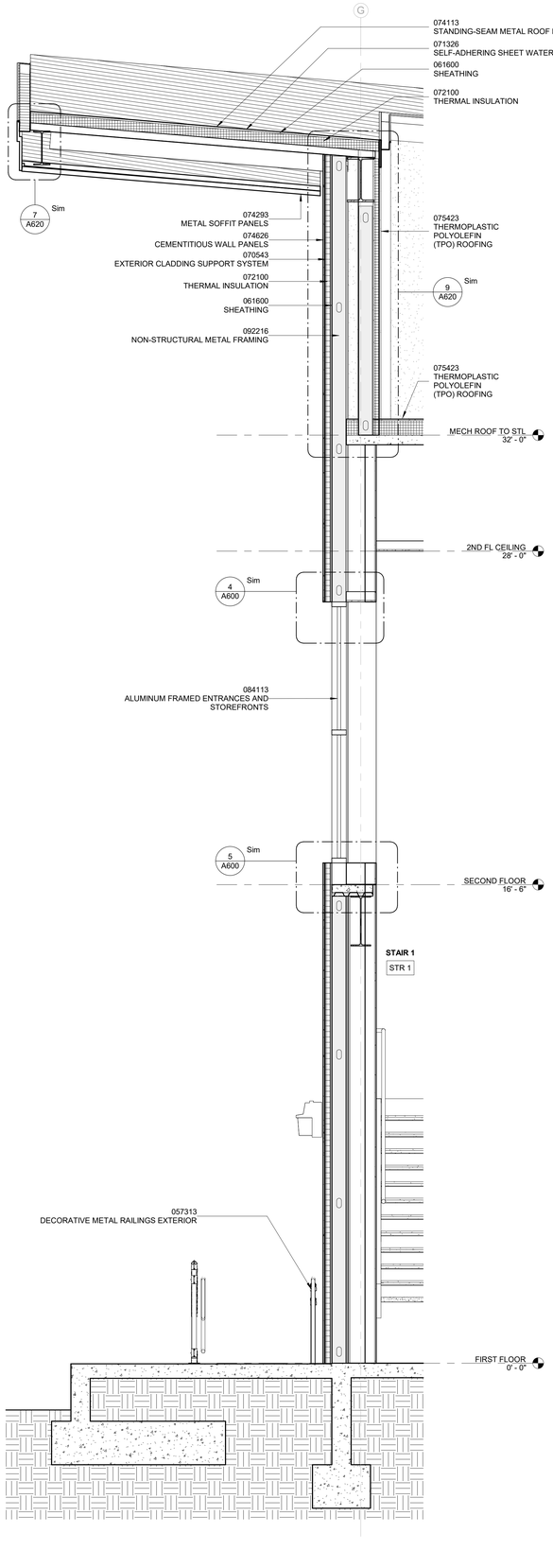
4 A531 A541 WALL SECTION @ NORTH WALL - LOADING DOCK

1/2" = 1'-0"



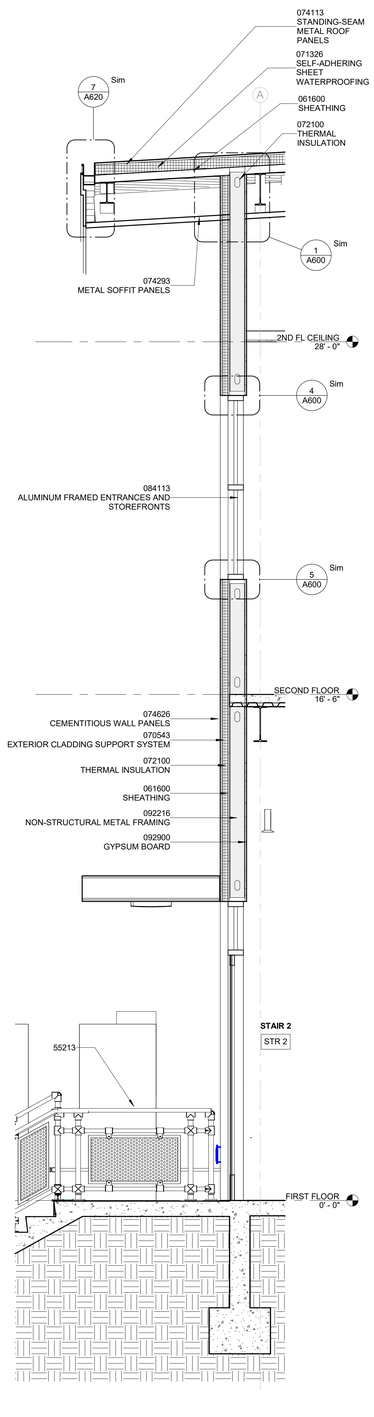
3 A530 A541 WALL SECTION @ NORTH ENTRANCE

1/2" = 1'-0"



2 A531 A541 WALL SECTION @ SOUTH WALL - STAIR 1

1/2" = 1'-0"



1 A530 A541 WALL SECTION @ SOUTH ENTRANCE

1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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REVISIONS

DOMINIC A. WILLARD #35 REG. No. 7826 STATE OF LOUISIANA

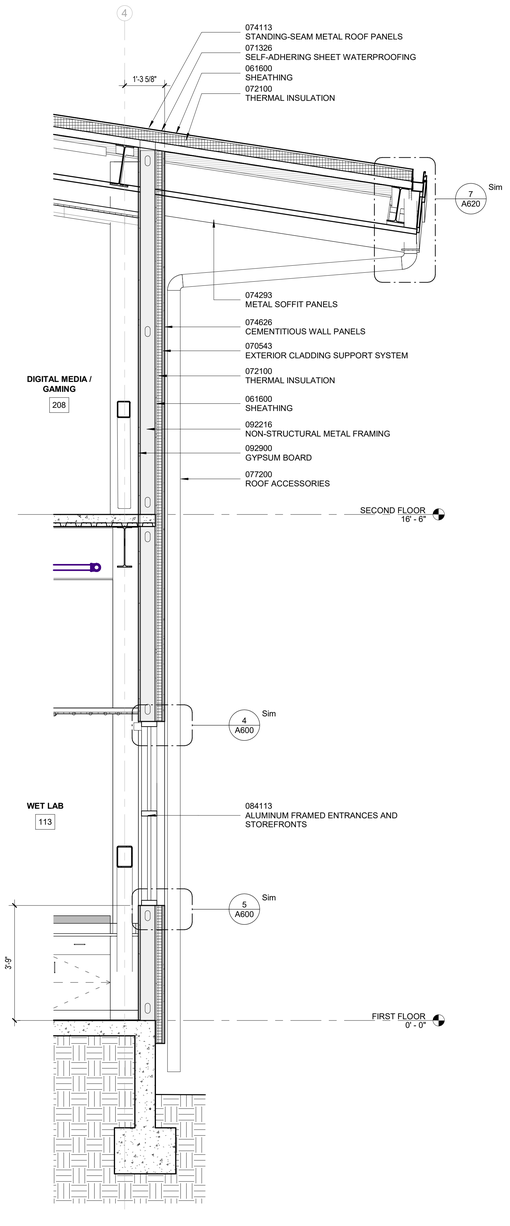
WDG Project No: 2024002

SHEET NAME

WALL SECTIONS

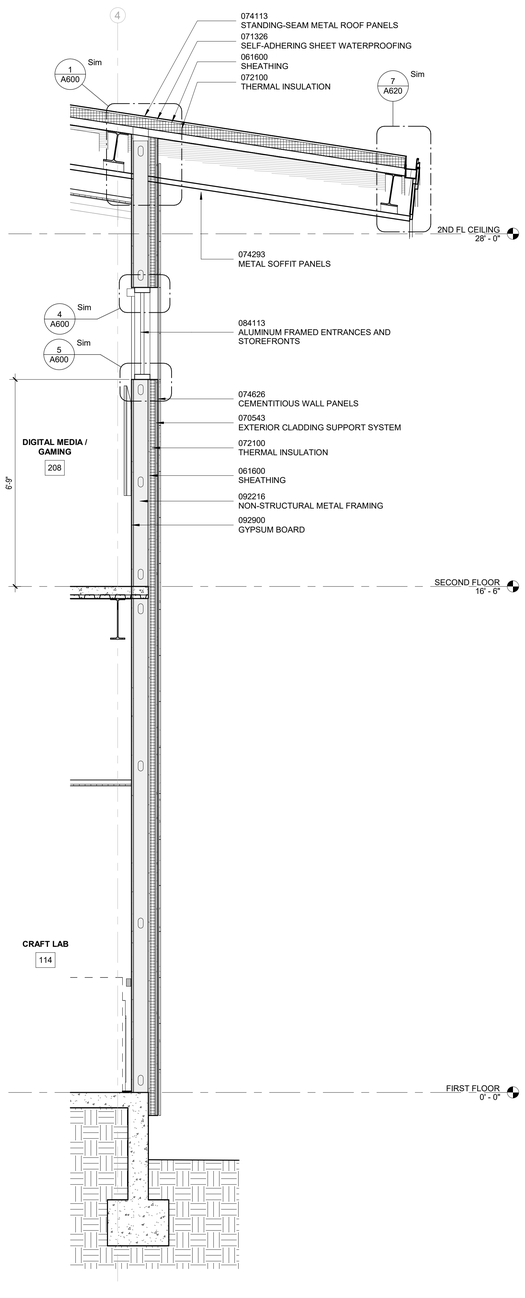
SHEET NO.

A541



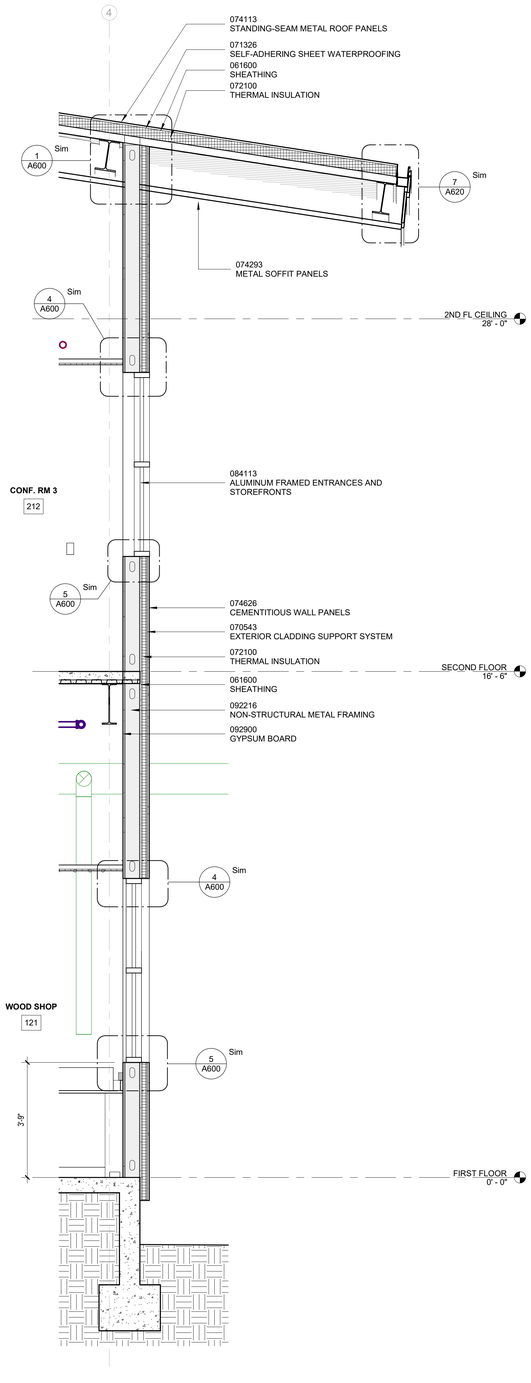
1 A530 A542 WALL SECTION @ EAST WALL - WET LAB

1/2" = 1'-0"



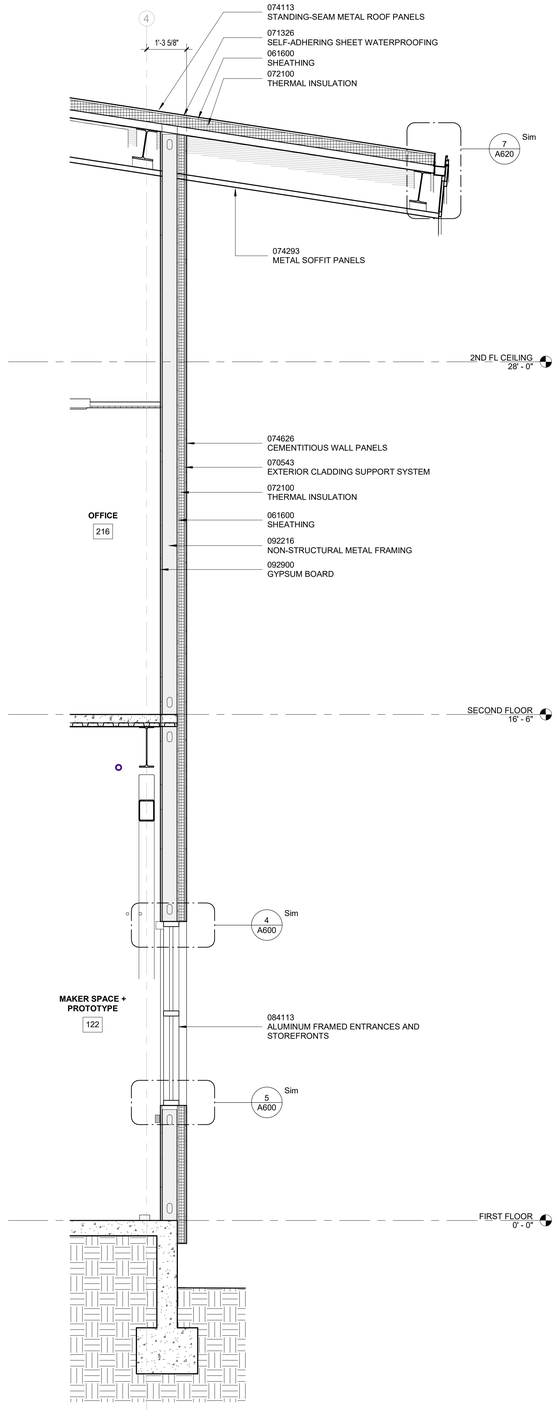
4 A530 A542 WALL SECTION @ EAST WALL - CRAFT LAB

1/2" = 1'-0"



3 A530 A542 WALL SECTION @ EAST WALL - WOODWORKING

1/2" = 1'-0"



2 A530 A542 WALL SECTION @ EAST WALL - MAKER SPC

1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOMINIC A. WILLARD #38 REG. No. 7329 STATE OF LOUISIANA REGISTERED ARCHITECT

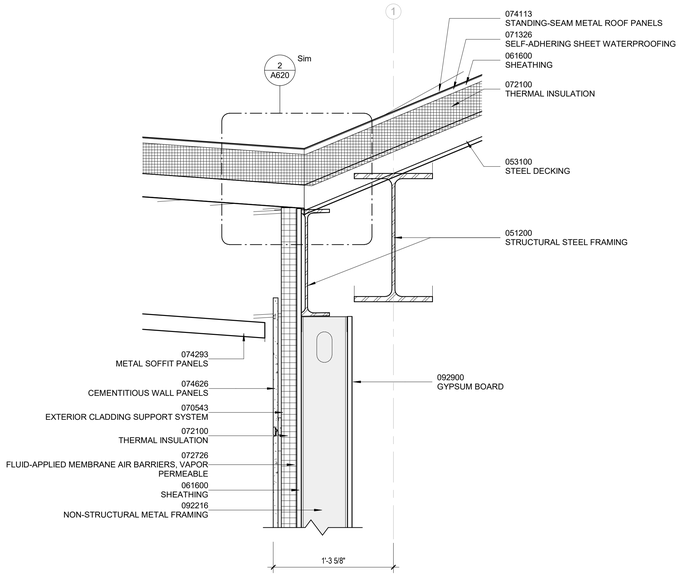
WDG Project No: 2024002

SHEET NAME

WALL SECTIONS

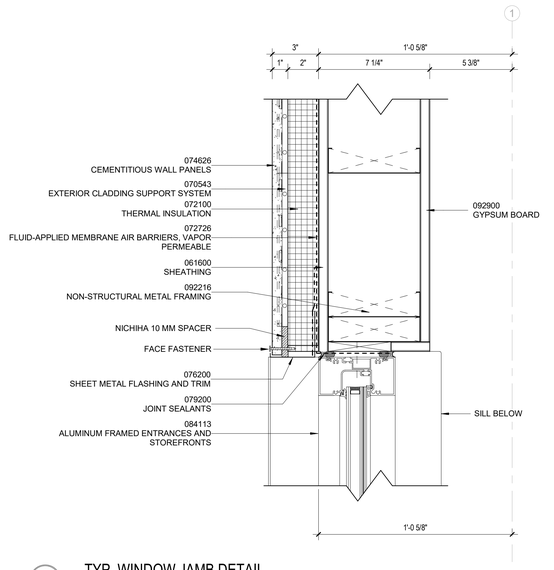
SHEET NO.

A542



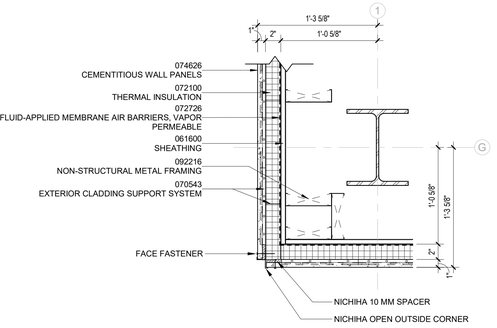
1 A540 | A600 — WALL TO SOFFIT DETAIL

1 1/2" = 1'-0"



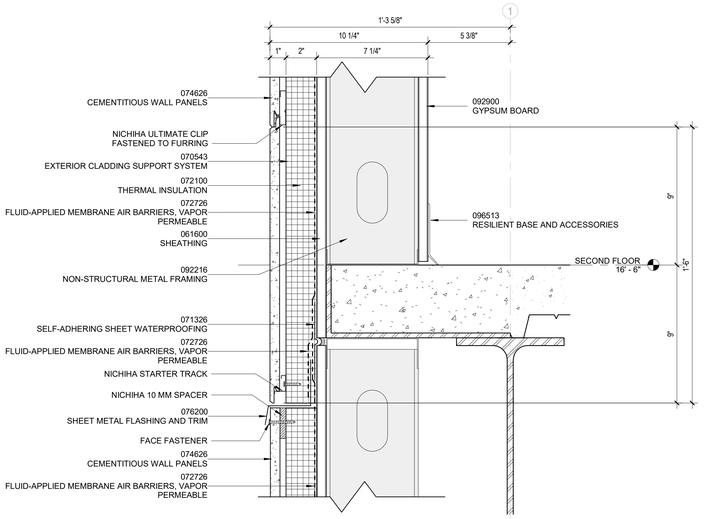
2 A211 | A600 — TYP. WINDOW JAMB DETAIL

3" = 1'-0"



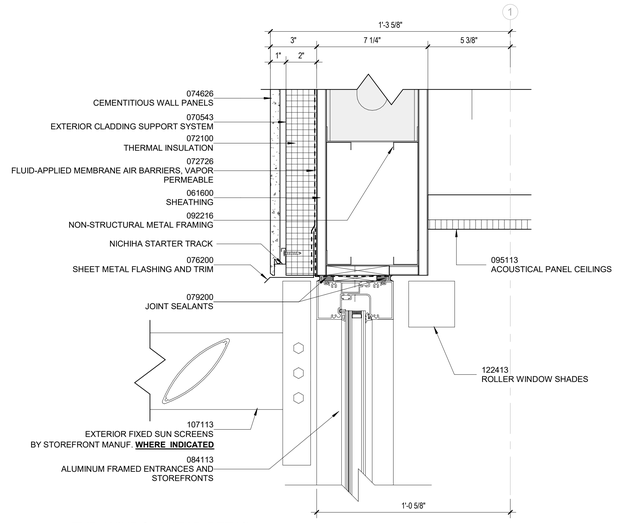
6 A211 | A600 — TYP. EXTERIOR CORNER DETAIL

1 1/2" = 1'-0"



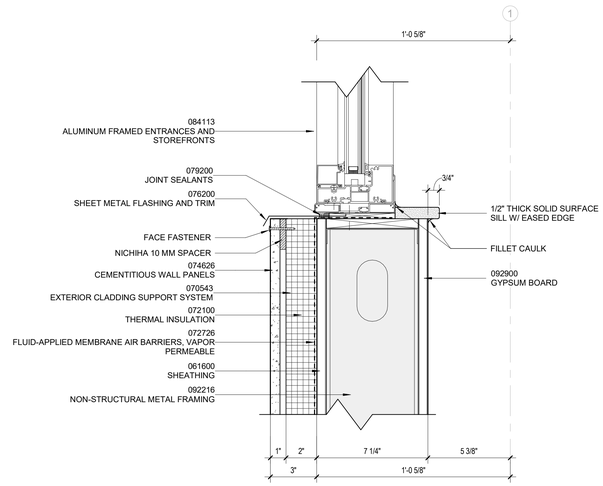
3 A222 | A600 — TYP. DETAIL @ 2ND FL SLAB

3" = 1'-0"



4 A221 | A600 — TYP. WINDOW HEAD DETAIL

3" = 1'-0"



5 A221 | A600 — TYP. WINDOW SILL DETAIL

3" = 1'-0"

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4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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REVISIONS

DOMINIC A. WILLARD, JR.
REG. No. 36474
STATE OF LOUISIANA
REGISTERED ARCHITECT

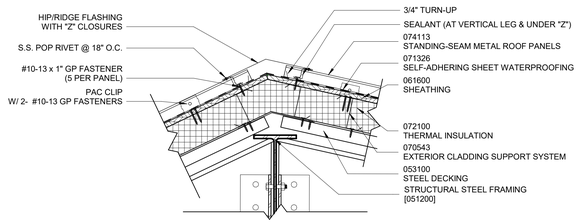
WDG Project No: 2024002

SHEET NAME

EXTERIOR DETAILS

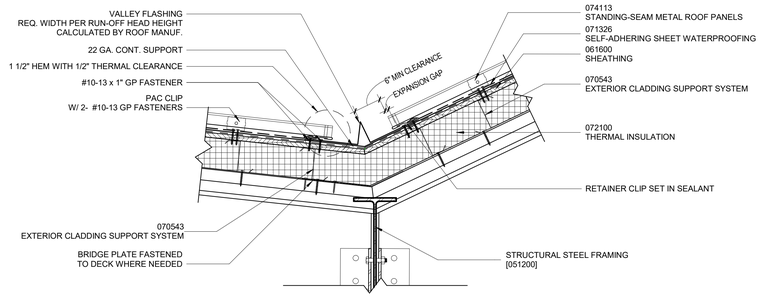
SHEET NO.

A600



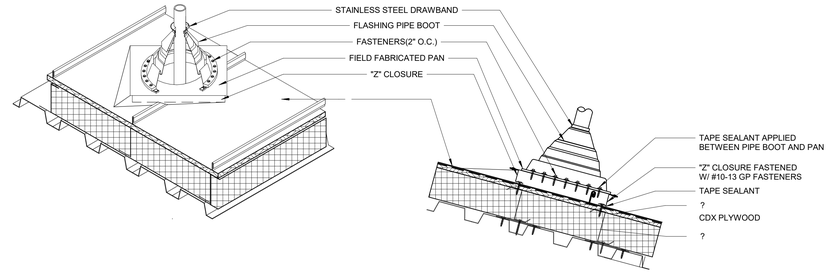
1 A220 A620 — STANDING SEAM RIDGE DETAIL

1 1/2" = 1'-0"



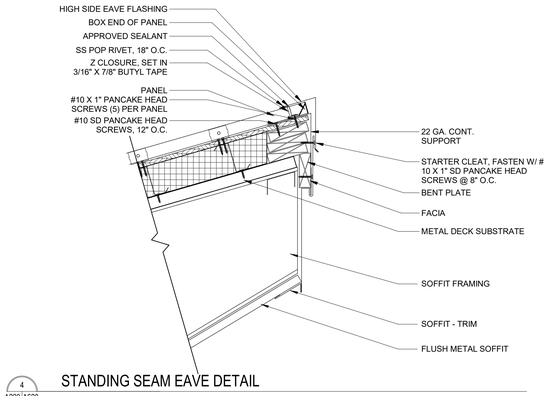
2 A220 A620 — STANDING SEAM VALLY DETAIL

1 1/2" = 1'-0"



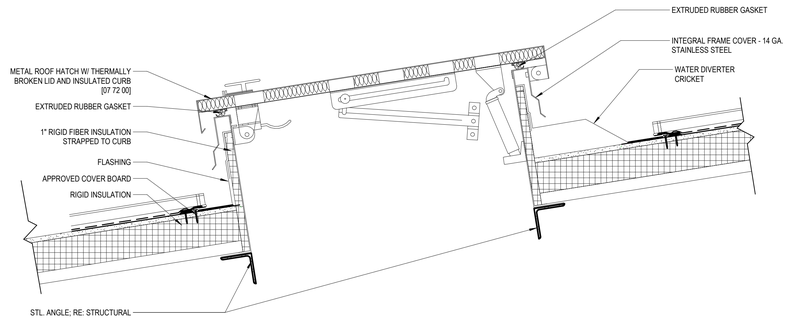
3 A220 A620 — STANDING SEAM PENETRATION DETAIL

1 1/2" = 1'-0"



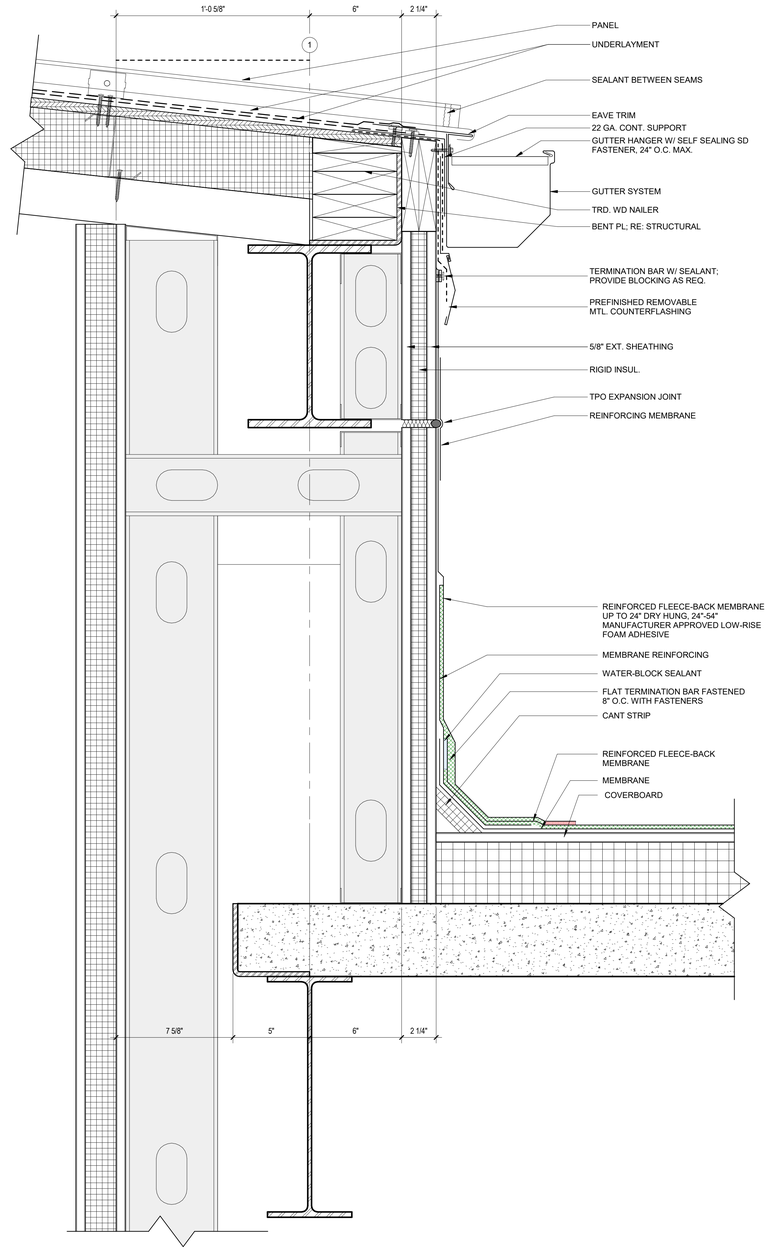
4 A220 A620 — STANDING SEAM EAVE DETAIL

1 1/2" = 1'-0"



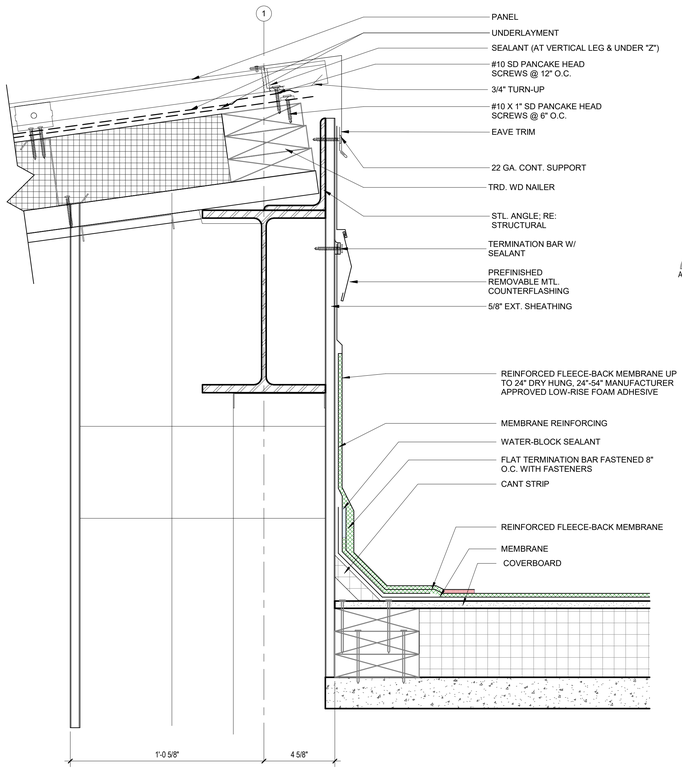
5 A220 A620 — STANDING SEAM ROOF HATCH PENETRATION

1 1/2" = 1'-0"



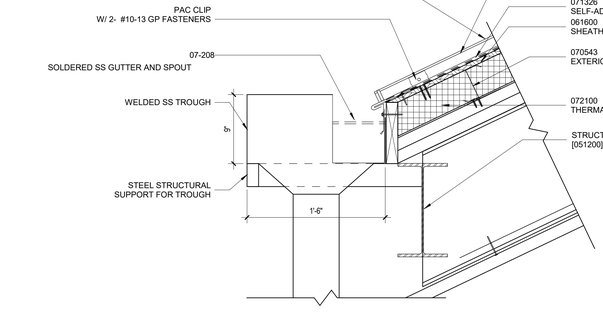
9 A220 A620 — TPO ROOF FLASHING - CURB AND GUTTER FLASHING

3" = 1'-0"



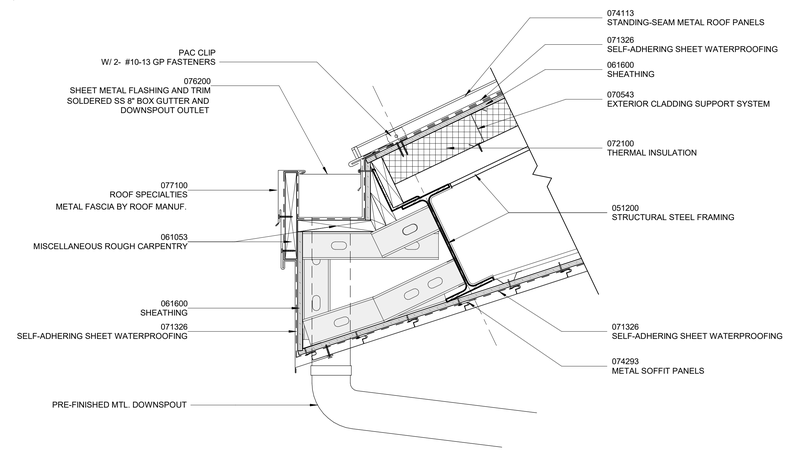
8 A220 A620 — TPO ROOF FLASHING - EAVE FLASHING

3" = 1'-0"



6 A220 A620 — STANDING SEAM GUTTER TROUGH DETAIL

1 1/2" = 1'-0"



7 A220 A620 — STANDING SEAM GUTTER EAVE DETAIL

1 1/2" = 1'-0"

WILLARD DESIGN GROUP
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PERMIT SET

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12/15/2025	50% CD'S
19/01/2026	PERMIT SET
01/19/2026	PERMIT SET

REVISIONS

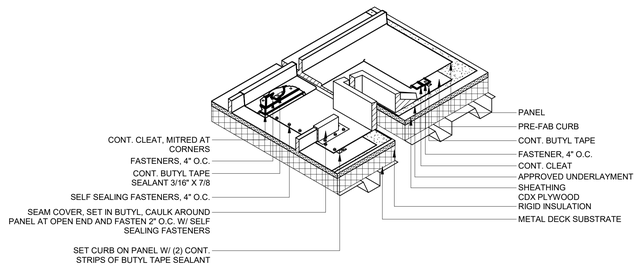
DOMINIC A. WILLARD, #36
REG. No. 7836
STATE OF LOUISIANA
PROFESSIONAL ARCHITECT

WDG Project No: 2024002

SHEET NAME

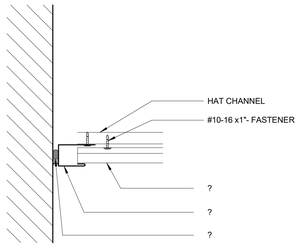
TYP. ROOF DETAILS

SHEET NO. A620

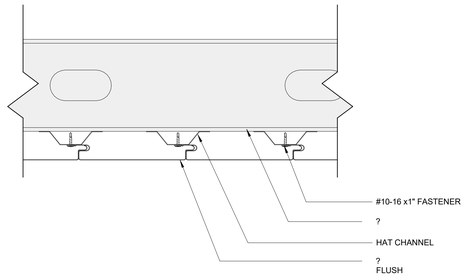


1 A220 A621 STANDING SEAM CURB DETAIL

1 1/2" = 1'-0"



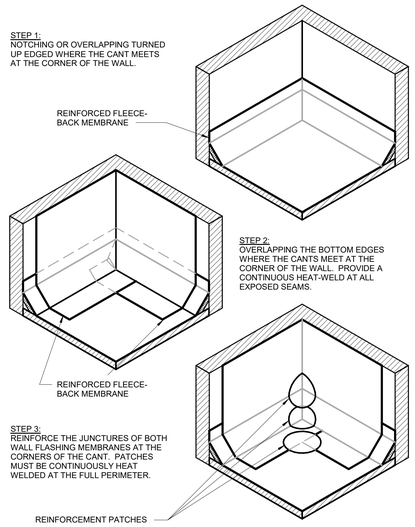
SOFFIT WALL CONNECTION

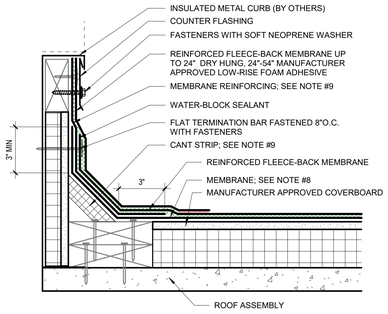


FASTENING DETAILS

2 A621 SOFFIT PANEL DETAILS

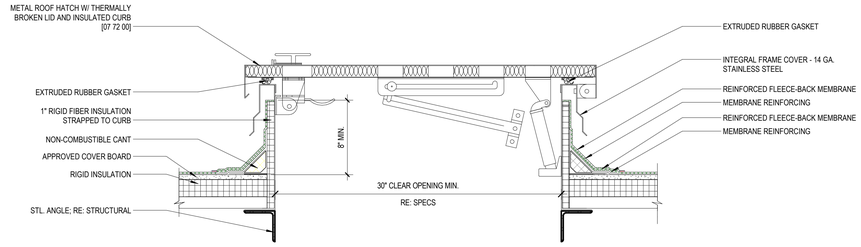
3" = 1'-0"





3 A220 A621 TPO ROOF CURB - INSULATED

3" = 1'-0"



4 A220 A621 TPO ROOF HATCH PENETRATION

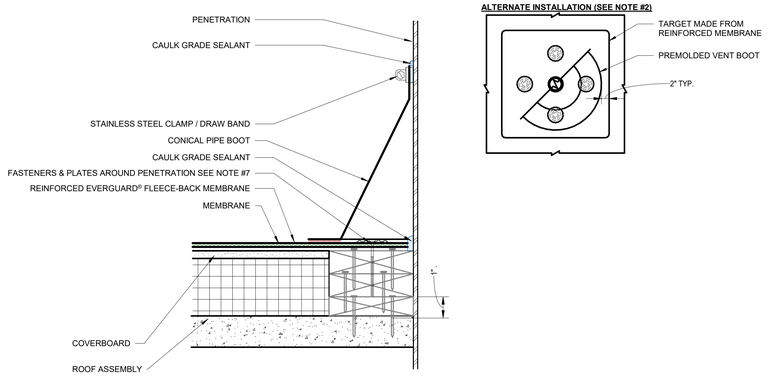
1 1/2" = 1'-0"

TPO ROOF NOTES:

1. FOR HEAT-WELDING LAPS, USE 1.5" MINIMUM WELD WITH AUTOMATIC MACHINE WELDER AND 2" MINIMUM WELD WITH HAND WELDER.
2. INSULATION MUST BE TAPERED TO CREATE A SUMP AROUND THE DRAIN WHEN THE ROOF DECK DOES NOT SATISFY THE MINIMUM SLOPE REQUIREMENTS FOR DRAINAGE.
3. FOR HEAT-WELDING LAPS, USE 1-1/2" MINIMUM WELD WITH AUTOMATIC MACHINE WELDER AND 2" MINIMUM WELD WITH HAND WELDER.
4. SEPARATE DISSIMILAR METALS TO PREVENT ELECTROLYTIC REACTION.
5. HEAT UNREINFORCED MEMBRANE, FORM BY HAND PRIOR TO HOT-AIR WELDING.
6. DO NOT CUT THROUGH THE SIDE OF THE PREMOLDED BOOT; IT MUST BE INSTALLED OVER THE VENT PIPE.
7. IF THE PLATES AND FASTENERS INTRUDE INTO THE BOOT FLANGE AREA, THEN A TARGET MUST BE FIRST INSTALLED OVER THE PLATES AND FASTENERS PRIOR TO BOOT INSTALLATION.
8. MEMBRANE TO BE SEALED USING CAULK GRADE SEALANT FOR EXPOSED MEMBRANE FOR PHASED INSTALLATION OR WHEN INDICATED BY DESIGNER OF RECORD.
9. VERTICAL FLASHING REINFORCEMENT AND CANT STRIP ARE REQUIRED FOR PHASED INSTALLATION OR WHEN INDICATED BY THE DESIGNER OF RECORD.

5 A621 TPO ROOF INSIDE CORNER CANT

3" = 1'-0"

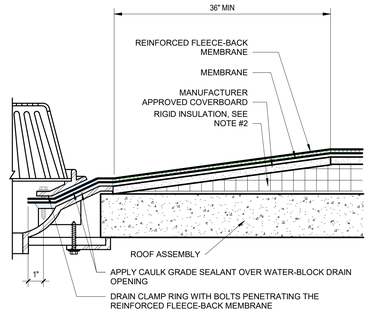


NOTES:

1. DO NOT CUT THROUGH THE SIDE OF THE PREMOLDED BOOT; IT MUST BE INSTALLED OVER THE VENT PIPE.
2. IF THE PLATES AND FASTENERS INTRUDE INTO THE BOOT FLANGE AREA, THEN A TARGET MUST BE FIRST INSTALLED OVER THE PLATES AND FASTENERS PRIOR TO BOOT INSTALLATION.

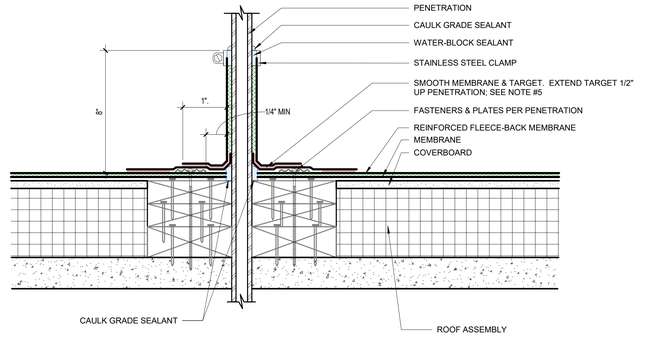
6 A621 TPO ROOF PENETRATION - BOOT

3" = 1'-0"



7 A621 TPO ROOF PENETRATION - DRAIN

3" = 1'-0"



8 A621 TPO ROOF PENETRATION - MEMBRANE FLASHING

3" = 1'-0"

WILLARD DESIGN GROUP
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PERMIT SET

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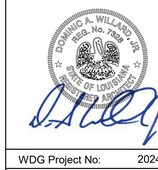
01/19/2026	PERMIT SET

REVISIONS



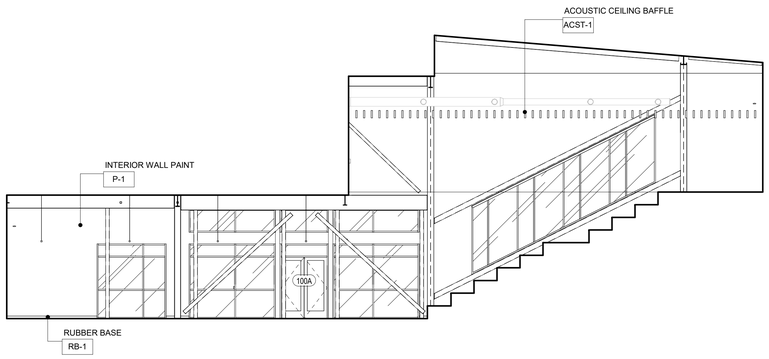
WDG Project No: 2024002

SHEET NAME

TYP. ROOF DETAILS

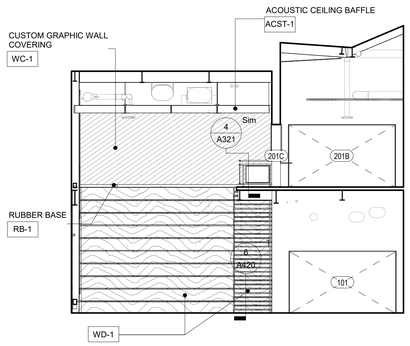
SHEET NO.

A621



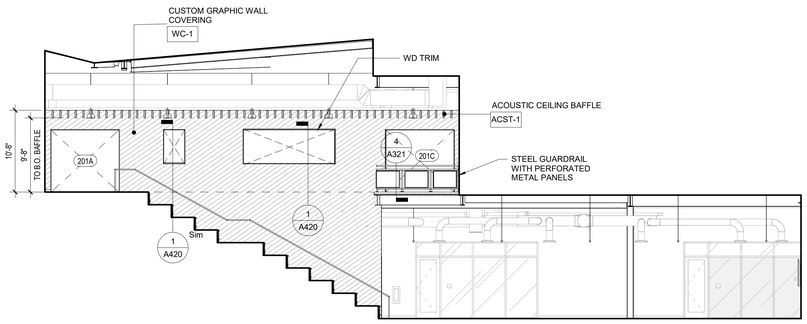
1 A211 A700 COLLABORATIVE STAIR & LOBBY ENTRANCE - WEST

1/8" = 1'-0"



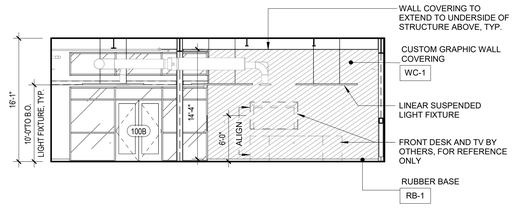
2 A211 A700 COLLABORATIVE STAIR - NORTH

1/8" = 1'-0"



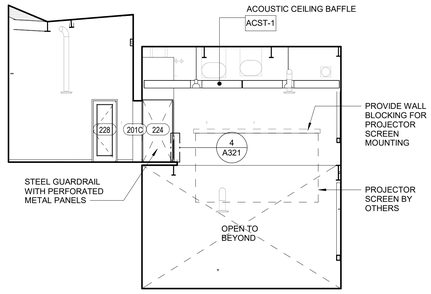
3 A211 A700 COLLABORATIVE STAIR - EAST

1/8" = 1'-0"



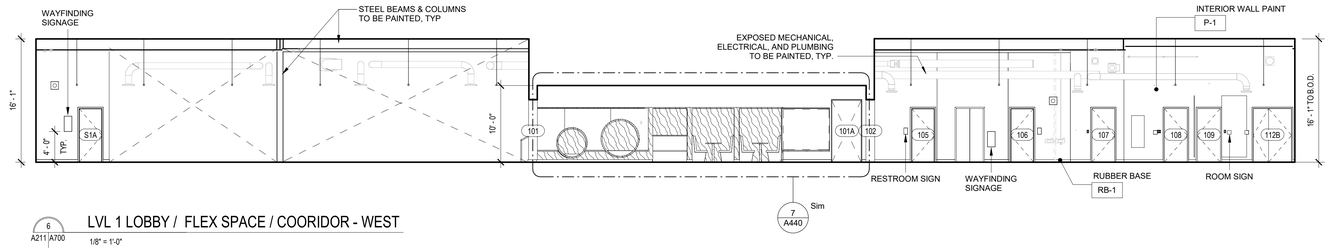
4 A211 A700 LOBBY - SOUTH

1/8" = 1'-0"



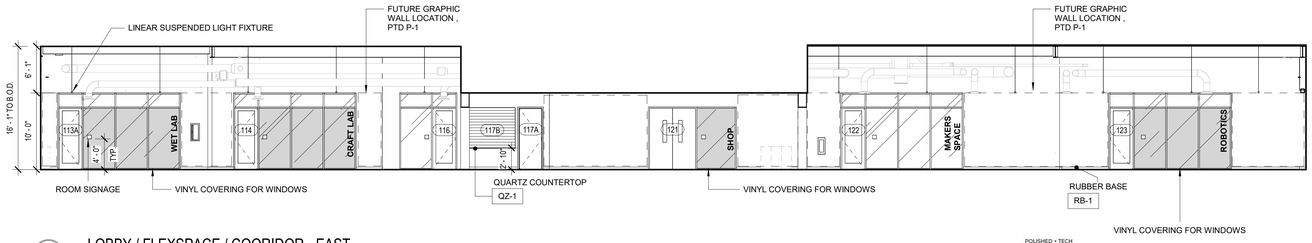
5 A211 A700 COLLABORATIVE STAIR - SOUTH

1/8" = 1'-0"



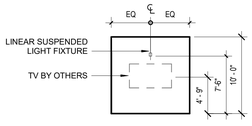
6 A211 A700 LVL 1 LOBBY / FLEX SPACE / COORIDOR - WEST

1/8" = 1'-0"



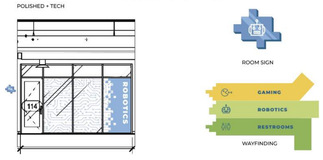
7 A211 A700 LOBBY / FLEXSPACE / COORIDOR - EAST

1/8" = 1'-0"



8 A211 A700 CONF. RM 1 - EAST

1/8" = 1'-0"



GENERAL NOTES

1. REFER TO LAB PLANNER DRAWINGS FOR ALL SPECIALTY EQUIPMENT AND CASEWORK IN LABORATORIES.
2. CONTRACTOR TO PROVIDE WALL-MOUNTED MARKER BOARDS, SEE INTERIOR ELEVATIONS.
3. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
4. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
5. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
6. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025

DOMINIC A. WILLARD JR. REG. No. 7539 STATE OF LOUISIANA REGISTERED ARCHITECT

studio kiro

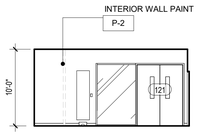
WDG Project No: 2024002

SHEET NAME

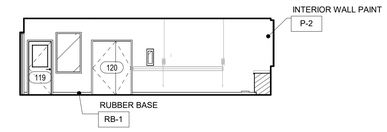
INTERIOR ELEVATIONS

SHEET NO.

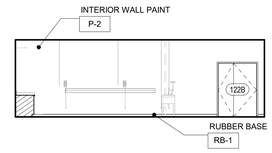
A700



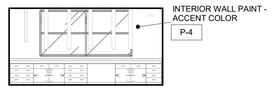
1 A211 | A701 WOOD SHOP - WEST
1/8" = 1'-0"



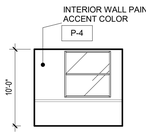
2 A211 | A701 WOOD SHOP - NORTH
1/8" = 1'-0"



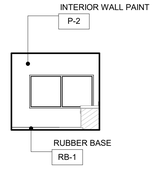
3 A211 | A701 WOOD SHOP - SOUTH
1/8" = 1'-0"



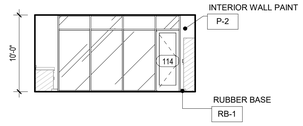
4 A211 | A701 WOOD SHOP - EAST
1/8" = 1'-0"



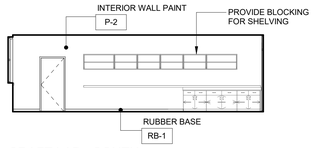
5 A211 | A701 METAL SHOP - EAST
1/8" = 1'-0"



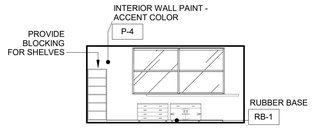
6 A211 | A701 METAL SHOP - WEST
1/8" = 1'-0"



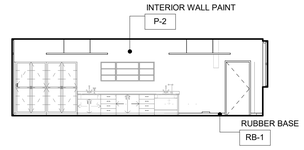
7 A211 | A701 CRAFT LAB - WEST
1/8" = 1'-0"



8 A211 | A701 CRAFT LAB - SOUTH
1/8" = 1'-0"

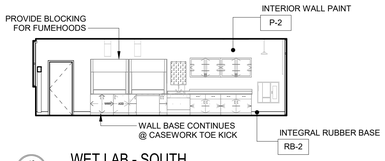


9 A211 | A701 CRAFT LAB - EAST
1/8" = 1'-0"

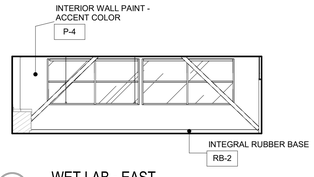


10 A211 | A701 CRAFT LAB - NORTH
1/8" = 1'-0"

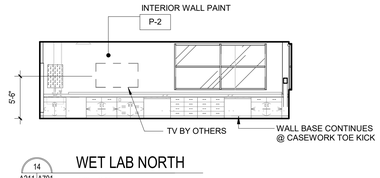
11 A211 | A701 WET LAB - WEST
1/8" = 1'-0"



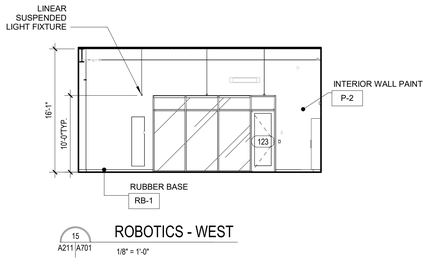
12 A211 | A701 WET LAB - SOUTH
1/8" = 1'-0"



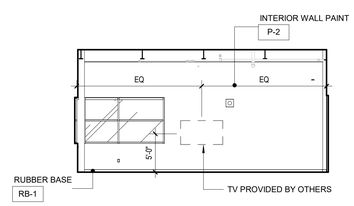
13 A211 | A701 WET LAB - EAST
1/8" = 1'-0"



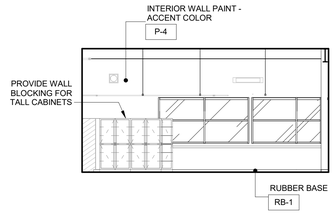
14 A211 | A701 WET LAB NORTH
1/8" = 1'-0"



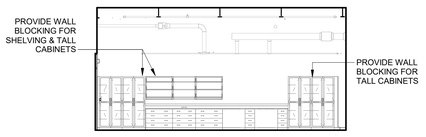
15 A211 | A701 ROBOTICS - WEST
1/8" = 1'-0"



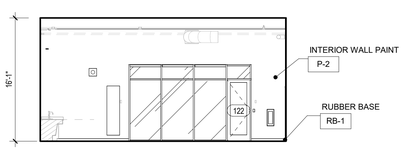
16 A211 | A701 ROBOTICS - SOUTH
1/8" = 1'-0"



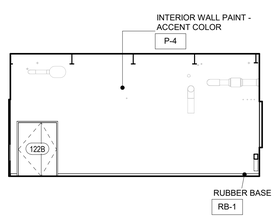
17 A211 | A701 ROBOTICS - EAST
1/8" = 1'-0"



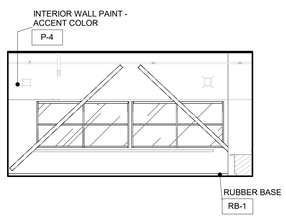
18 A211 | A701 ROBOTICS - NORTH
1/8" = 1'-0"



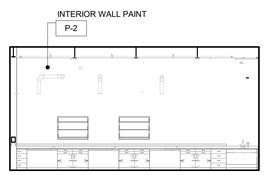
19 A211 | A701 MAKERSPACE - WEST
1/8" = 1'-0"



20 A211 | A701 MAKERSPACE - NORTH
1/8" = 1'-0"



21 A211 | A701 MAKERSPACE - EAST
1/8" = 1'-0"



22 A211 | A701 MAKERSPACE - SOUTH
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO LAB PLANNER DRAWINGS FOR ALL SPECIALTY EQUIPMENT AND CASEWORK IN LABORATORIES.
2. CONTRACTOR TO PROVIDE WALL-MOUNTED MARKER BOARDS, SEE INTERIOR ELEVATIONS.
3. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
4. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES
5. REFER TO SHEET A211 FOR ANNOTATIONS & KEYNOTES.
6. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

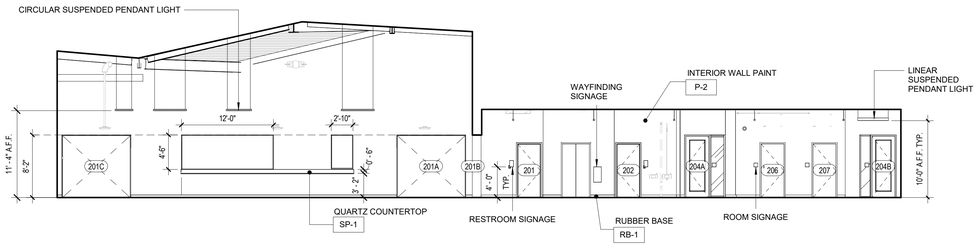
DOMINIC A. WILLARD REG. No. 7526 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME
INTERIOR ELEVATIONS

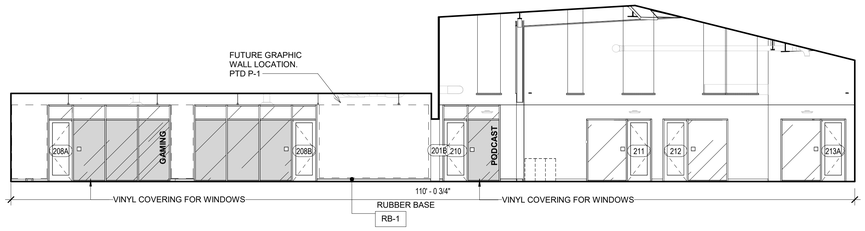
SHEET NO. A701

studio kiro



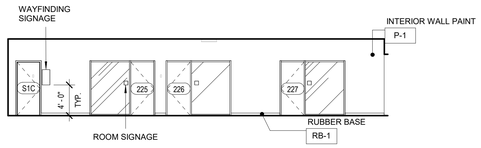
1 A211 A702 LVL 2 FLEX SPACE / COORIDOR - WEST

1/8" = 1'-0"



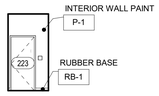
2 A211 A702 LVL 2 FLEX SPACE / COORIDOR - EAST

1/8" = 1'-0"



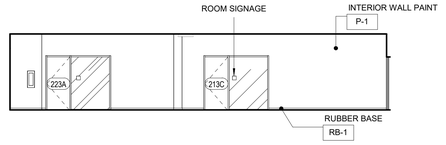
3 A211 A702 LVL 2 OFFICE COORIDOR - WEST

1/8" = 1'-0"



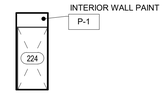
4 A211 A702 LVL 2 OFFICE COORIDOR - NORTH

1/8" = 1'-0"



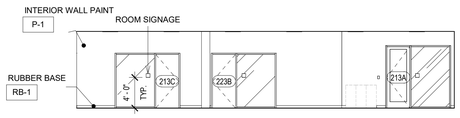
5 A211 A702 LVL 2 OFFICE COORIDOR - EAST

1/8" = 1'-0"



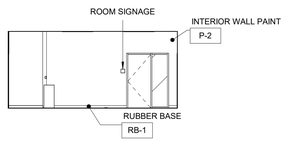
6 A211 A702 LVL 2 OFFICE COORIDOR - SOUTH

1/8" = 1'-0"



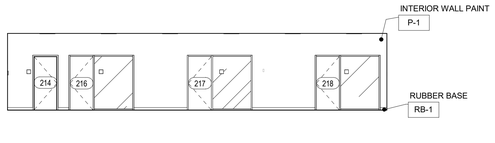
7 A211 A702 OPEN OFFICE - WEST

1/8" = 1'-0"



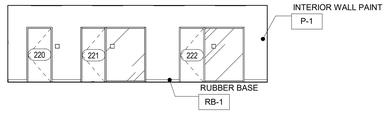
8 A211 A702 OPEN OFFICE - NORTH

1/8" = 1'-0"



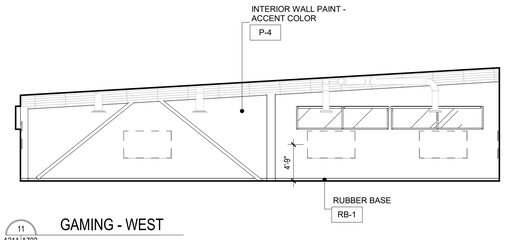
9 A211 A702 OPEN OFFICE - EAST

1/8" = 1'-0"



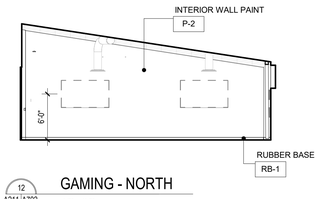
10 A211 A702 OPEN OFFICE - SOUTH

1/8" = 1'-0"



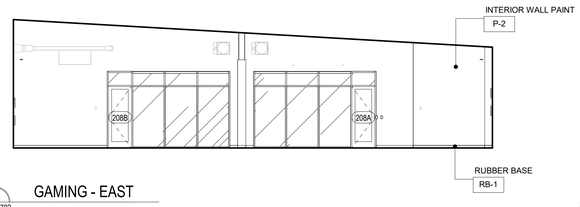
11 A211 A702 GAMING - WEST

1/8" = 1'-0"



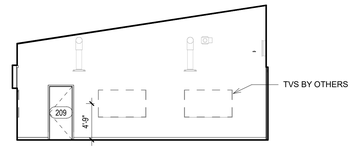
12 A211 A702 GAMING - NORTH

1/8" = 1'-0"



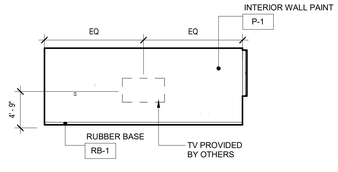
13 A211 A702 GAMING - EAST

1/8" = 1'-0"



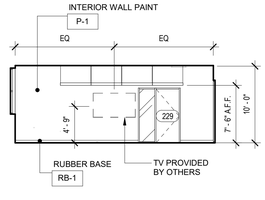
14 A211 A702 GAMING - SOUTH

1/8" = 1'-0"



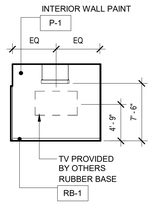
15 A211 A702 CONF. RM 3 - NORTH

1/8" = 1'-0"



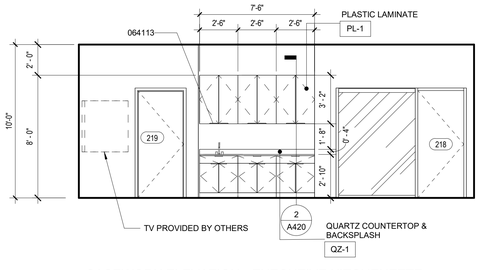
16 A211 A702 CONF. RM 3 - SOUTH

1/8" = 1'-0"



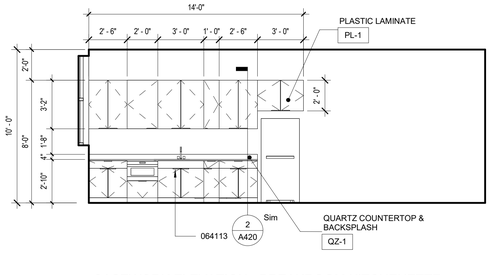
17 A211 A702 CONF. RM 2 - SOUTH

1/8" = 1'-0"



18 A211 A702 CASEWORK ELEVATION - EXECUTIVE KITCHENETTE

1/4" = 1'-0"



19 A211 A702 CASEWORK ELEVATION - BREAKROOM KITCHENETTE

1/4" = 1'-0"

GENERAL NOTES

1. REFER TO LAB PLANNER DRAWINGS FOR ALL SPECIALTY EQUIPMENT AND CASEWORK IN LABORATORIES.
2. CONTRACTOR TO PROVIDE WALL-MOUNTED MARKER BOARDS, SEE INTERIOR ELEVATIONS.
3. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
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SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025

WDG Project No: 2024002

SHEET NAME

INTERIOR ELEVATIONS

SHEET NO. A702

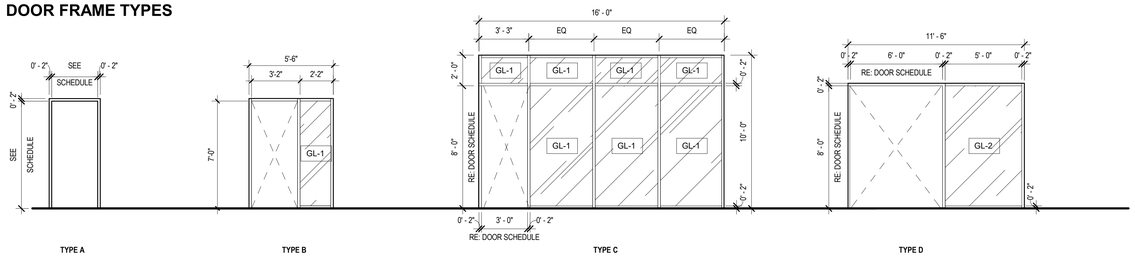
studio kiro

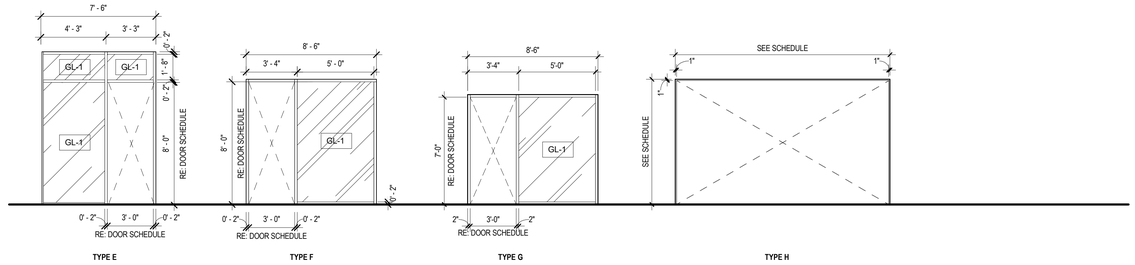
DOOR SCHEDULE

DOOR NO.	ROOM	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE RATING	HARDWARE SET	REMARKS
FIRST FLOOR															
100A	LOBBY	6' - 0"	8' - 0"	FF	ALUM	CLR ANOD.		ALUM	CLR ANOD.					SET 1.0	
100B	LOBBY	6' - 0"	8' - 0"	FF	ALUM	CLR ANOD.		ALUM	CLR ANOD.					SET 1.0	
101	FLEX SPACE	14' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
101A	FLEX SPACE	4' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
102	CORRIDOR	14' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
103	CO-WORKING SPACE 1	3' - 0"	8' - 0"	F	WD	CLR STAIN	A	HM	PTD					SET 9.0	
104	CO-WORKING SPACE 2	3' - 0"	8' - 0"	F	WD	CLR STAIN	A	HM	PTD					SET 9.0	
105	WOMEN'S RESTROOM	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD					SET 27.0	
106	MEN'S RESTROOM	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD					SET 27.0	
107	JAN. CLO.	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD				45 MIN	SET 16.0	
108	ELECT. RM.	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD				45 MIN	SET 5.0	
109	IT RM.	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD				45 MIN	SET 17.0	
110	SPRINKLER RM.	3' - 0"	8' - 0"	A	HM	PTD	A	HM	PTD					SET 3.0	
111	STORAGE	5' - 0"	7' - 0"	AA	HM	PTD	A	HM	PTD				45MIN	SET 25.0	
112A	LOADING DOCK	12' - 0"	11' - 3"		STL	PTD								SET 29.0	
112B	LOADING DOCK	5' - 0"	7' - 0"	AA	HM	PTD	A	HM	PTD				45MIN	SET 19.0	
113A	WET LAB	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 4.0	
113B	WET LAB	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 10.0	
114	CRAFT LAB	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 6.0	
115	CRAFT STOR.	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 21.0	
116	CONF. RM. 1	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 18.0	
117A	BREAK ROOM	3' - 0"	8' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 20.0	
117B	BREAK ROOM	6' - 0"	5' - 3"	K	STL	PTD	A	HM	PTD					SET 29.0	
118	SHOP STOR.	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 21.0	
119	SHOP OFFICE	3' - 0"	7' - 0"	D	WD	CLR STAIN	A	HM	PTD					SET 11.0	
120	METAL SHOP	5' - 0"	7' - 0"	BB	WD	CLR STAIN	A	HM	PTD					SET 24.0	
121	WOOD SHOP	6' - 0"	8' - 0"	AA	WD	CLR STAIN	D	HM	PTD					SET 8.0	
122	MAKER SPACE + PROTOTYPE	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 4.0	
122B	WOOD SHOP	5' - 0"	7' - 0"	BB	WD	CLR STAIN	A	HM	PTD					SET 19.0	
123	COMPUTER/ ROBOTICS	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 4.0	
S1A	STAIR 1	3' - 0"	7' - 0"	B	HM	PTD	A	HM	PTD				60 MIN	SET 7.0	
S1B	STAIR 1	3' - 0"	8' - 0"	A	HM	PTD	A	HM	PTD					SET 2.0	
S2A	STAIR 2	3' - 0"	7' - 0"	B	HM	PTD	A	HM	PTD				60 MIN	SET 7.0	
S2B	STAIR 2	3' - 0"	8' - 0"	F	WD	CLR ANOD.	F	HM	CLR ANOD.					SET 1.1	
SECOND FLOOR															
201	WOMEN'S RESTROOM	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD					SET 27.0	
201A	FLEX SPACE	9' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
201B	FLEX SPACE	14' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
201C	FLEX SPACE	9' - 0"	8' - 2"	-	-	-	H	WD	PTD					-	
202	MEN'S RESTROOM	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD					SET 27.0	
204A	MULTI-PURPOSE RM	3' - 0"	8' - 0"	F	WD	CLR STAIN	A	HM	PTD					SET 6.0	
204B	MULTI-PURPOSE RM	3' - 0"	8' - 0"	F	WD	CLR STAIN	A	HM	PTD					SET 6.0	
206	ELECT. RM.	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD				45 MIN	SET 5.0	
207	IT RM.	3' - 0"	7' - 0"	A	HM	PTD	A	HM	PTD				45 MIN	SET 16.0	
208A	DIGITAL MEDIA / GAMING	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 6.0	
208B	DIGITAL MEDIA / GAMING	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 6.0	
209	DIGITAL MEDIA / GAMING STORAGE	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 14.0	
210	PRIVATE GROUP POD	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 20.0	
211	BREAK RM	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 28.0	
212	CONF. RM 3	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 18.0	
213A	OPEN OFFICE	3' - 0"	8' - 0"	F	WD	CLR STAIN	F	HM	PTD					SET 10.0	
213C	OPEN OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 10.0	
214	VESTIBULE	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 26.0	
215	VESTIBULE	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 23.0	
216	OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
217	OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
218	EXECUTIVE OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
219	PRIVATE TOILET RM	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 22.0	
220	OFFICE STORAGE	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 13.0	
221	OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
222	OFFICE	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
223	CLOSET	3' - 0"	7' - 0"	A	WD	CLR STAIN	A	HM	PTD					SET 13.0	
223A	CONF. RM. 2	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 18.0	
223B	CONF. RM. 2	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 10.0	
225	CO-WORKING SPACE 5	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 9.0	
226	CO-WORKING SPACE 4	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 9.0	
227	CO-WORKING SPACE 3	3' - 0"	7' - 0"	A	WD	CLR STAIN	G	HM	PTD					SET 9.0	
228	PHONEBOOTH	3' - 0"	8' - 0"	F	WD	CLR STAIN	A	HM	PTD					SET 18.0	
229	CONF. RM 3	3' - 0"	7' - 0"	A	WD	CLR STAIN	B	HM	PTD					SET 18.0	
S1C	STAIR 1	3' - 0"	7' - 0"	B	HM	CLR STAIN	A	HM	PTD				60 MIN	SET 7.0	
S2C	STAIR 2	3' - 0"	7' - 0"	B	HM	CLR STAIN	A	HM	PTD				60 MIN	SET 7.0	

INTERIOR GLAZING SCHEDULE	
TYPE	DESCRIPTION
GL-1	1/2" MONOLITHIC TEMPERED
GL-2	5/8" LAM

DOOR FRAME TYPES





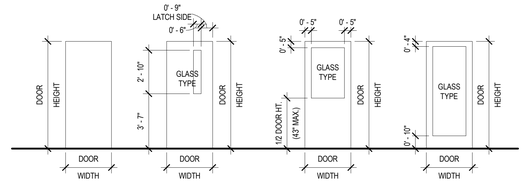
ADA STANDARDS
(404.2.10) DOOR SURFACES WITH 10" A.F.F. SHALL BE SMOOTH ON PUSH SIDE FULL WIDTH OF DOOR
(404.2.11) VISION LITES SHALL BE 43" MAX. A.F.F.

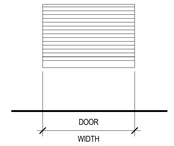
DOOR CRITERIA AND GENERAL NOTES:

1. ALL DOOR TYPES LISTED IN DOOR SCHEDULE ARE FOUND IN THE SPECIFICATION DIVISION 08.
2. THE FOLLOWING EXPLANATION APPLIES TO THE DOOR SCHEDULE.
   A. DOOR NUMBER
      (1) THE DOOR NUMBER SHALL BE THE SAME AS THE ROOM SERVED.
      (2) IF MORE THAN ONE DOOR SERVES THE SAME ROOM, EACH DOOR WILL BE ASSIGNED AN IDENTIFICATION NUMBER CONSISTING OF THE ROOM NUMBER PLUS AN ALPHABETICAL SUFFIX. THE NUMBER OF A DOOR COMMUNICATING BETWEEN TWO ROOMS SHALL BE DETERMINED BY THE ROOM IN WHICH IT SWINGS.
   B. DOOR SIZE
      THE WIDTH AND HEIGHT OF THE DOOR APPEARS IN THE DOOR SCHEDULE IN FEET AND INCHES. THE DOOR SHALL BE 1 3/4" FOR HOLLOW METAL AND WOOD DOORS, UNLESS NOTED OTHERWISE.
   C. DOOR TYPE
      REFER TO THE DOOR SCHEDULE AND THIS SHEET FOR DOOR TYPES.
   D. FRAME TYPES
      REFER TO THE DOOR SCHEDULE AND THIS SHEET FOR FRAME TYPES.
   E. HARDWARE GROUPS
      REFER TO THE DOOR SCHEDULE, HARDWARE SPECIFICATION IN SECTION 08 71 01 AND THIS SHEET FOR HARDWARE GROUPS.
   F. DETAILS
      TYPICAL DETAILS REFERENCED ARE LOCATED ON SHEET

AT ALL TYPES OF EXTERIOR DOORS THAT SWING OUT, DOOR HEAD SHALL BE FLUSH AND SEALED

DOOR PANEL TYPES



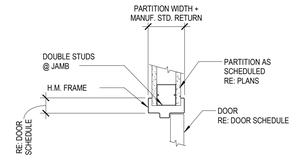


DOOR MATERIAL	DESCRIPTION
AL	ALUMINUM
HM	HOLLOW METAL
WD	SOLID CORE WOOD

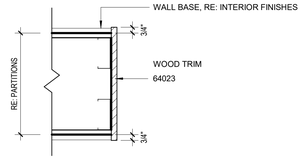
DOOR FINISH	DESCRIPTION
CLR STAIN	CLEAR STAIN
PDT	PAINTED

DOOR HARDWARE SETS:

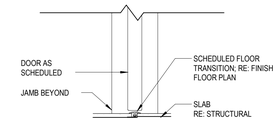
SET 1.0: EXTERIOR - ALUM - PAIR - LOBBY (EAC)
SET 1.1: EXTERIOR - ALUM - STAIR (EAC)
SET 2.0: EXTERIOR - STAIR (EAC)
SET 3.0: EXTERIOR - SPRINKLER RM.
SET 4.0: COMPUTER/ ROBOTICS, MAKER SPACE + PROTOTYPE, WET LAB (EAC)
SET 5.0: ELECT. RM.
SET 6.0: CRAFT LAB, DIGITAL MEDIA / GAMING, MULTI-PURPOSE RM
SET 7.0: STAIR
SET 8.0: PAIR - WOOD SHOP (EAC)
SET 9.0: CO-WORKING SPACE
SET 10.0: OPEN OFFICE, WET LAB (EAC)
SET 11.0: SHOP OFFICE (EAC)
SET 12.0: NOT USED
SET 13.0: CLOSET, OFFICE STORAGE
SET 14.0: DIGITAL MEDIA / GAMING STORAGE
SET 15.0: NOT USED
SET 16.0: IT RM., JAN. CLO.
SET 17.0: IT RM.
SET 18.0: CONF. RM., OFFICE, PHONEBOOTH
SET 19.0: PAIR - LOADING DOCK
SET 20.0: BREAK ROOM, PRIVATE GROUP POD
SET 21.0: CRAFT STOR., SHOP STOR.
SET 22.0: PRIVATE TOILET RM
SET 23.0: TOILET ROOM
SET 24.0: PAIR - METAL SHOP, WOOD SHOP
SET 25.0: PAIR - STORAGE
SET 26.0: VESTIBULE
SET 27.0: RESTROOM
SET 28.0: BREAK RM
SET 29.0: COILING DOOR



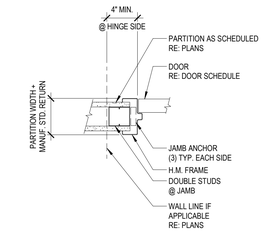
3 A800 HM DOOR HEAD @ STUD WALL
1 1/2" = 1'-0"



10 A800 WD JAMB @ CASED OPENING
1 1/2" = 1'-0"



5 A800 SILL DETAIL @ HM DOOR - INTERIOR
1 1/2" = 1'-0"



4 A800 HM JAMB AT STUD WALL
1 1/2" = 1'-0"

studio kiro

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE	
DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS		
1	REVISION 1	11/10/2025

DOMINIC A. WILLARD, JR. REG. No. 7529 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

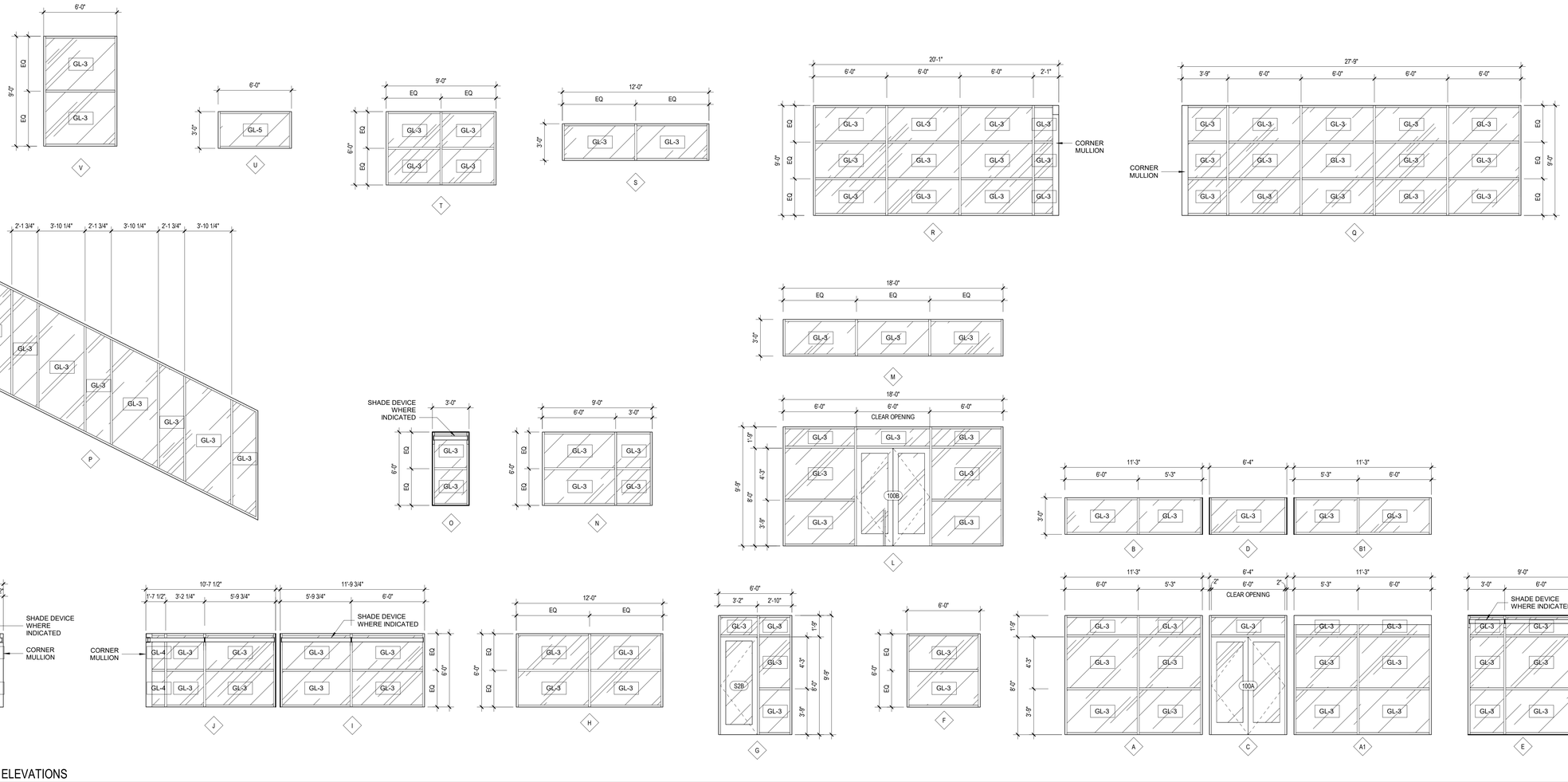
SHEET NAME
DOOR SCHEDULES & DETAILS

SHEET NO.
A800

EXTERIOR STOREFRONT / CURTAIN WALL SCHEDULE				
MARK	DESCRIPTION	HEIGHT R.O.	WIDTH R.O.	COMMENTS
A	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	11' - 3"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
A1	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	11' - 3"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
B	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	3' - 0"	11' - 3"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
B1	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	3' - 0"	11' - 3"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
C	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	6' - 4"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
D	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	3' - 0"	6' - 4"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
E	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	9' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
F	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	6' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
G	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	6' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
H	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	12' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
I	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	11' - 9 3/4"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
J	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	10' - 7 1/2"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
K	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	11' - 11 1/4"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
L	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 9"	18' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
M	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	3' - 0"	18' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
N	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	9' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
O	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	3' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
P	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	VARIES	VARIES `	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
Q	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 0"	27' - 9"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
R	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 0"	20' - 1"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
S	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. CURTAINWALL	3' - 0"	12' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
T	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	6' - 0"	9' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
U	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	3' - 0"	6' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.
V	HURRICANE IMPACT RESISTANT EXTERIOR ALUM. STOREFRONT	9' - 0"	6' - 0"	G.C. TO VERIFY R.O. DIMENSIONS PRIOR TO FABRICATION.

Grand total: 44

EXTERIOR GLAZING SCHEDULE	
TYPE	DESCRIPTION
GL-3	1-5/16" IMPACT RESISTANT INSUL. LAMINATED
GL-4	1-5/16" IMPACT RESISTANT INSUL. LAMINATED; SPANDREL
GL-5	1-5/16" IMPACT RESISTANT INSUL. LAMINATED; FROSTED



1 A820 EXTERIOR STOREFRONT ELEVATIONS

1/4" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

DOWNING A. WILLARD, JR. REG. No. 7826 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

EXTERIOR OPENINGS SCHEDULE & ELEVATIONS

SHEET NO.

A820

INTERIOR FINISH LEGEND

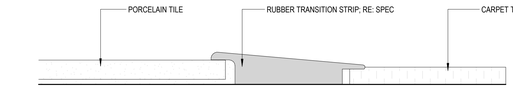
MARK	DESCRIPTION	BASIS-OF-DESIGN MANUFACTURER	BASIS-OF-DESIGN MODEL	SIZE	COLOR	REMARKS
CASEWORK & MILLWORK						
FAB-1	BOOTH FABRIC	BRENTANO	HOLBROOK			
H-1	UNDERMOUNT HOOK	ELEMENTS	YD20-156PC			
PL-1	PLASTIC LAMINATE	WILSONART				
QZ-1	QUARTZ COUNTERTOP & BACKSPLASH	COSENTINO	SILESTONE	2CM		
SP-1	RIFT SAWN WHITE OAK VENEER ON PLYWOOD					
CEILING						
ACST-1	ACOUSTIC CEILING BAFFLE	TURF	SLAB			SPACING EQUAL TO BAFFLE DEPTH. NRC >0.8
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	CANYON 1492	24" X 24"		PRELUDE XL 15/16" GRID - BEVELED TEGULAR EDGE
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	KITCHEN ZONE 673	24" X 24"		PRELUDE XL 15/16" GRID - LAY-IN EDGE. SCRUBBABLE
ACT-3	ACOUSTIC CEILING TILE	ARMSTRONG	BACKSTAGE NOIR 1318	24" X 28"		PRELUDE XL 15/16" GRID - LAY-IN EDGE
FLOORING						
CONC-1	SEALED CONCRETE					
CONC-2	SEALED CONCRETE					EPOXY SEALANT
CPT-1	CARPET TILE	PATCRAFT	CRAFTED SURFACE	18" X 36"		
CPT-2	CARPET TILE	PATCRAFT	LEARNING LAB	24" X 24"		
RF-1	RUBBER FLOOR	NORA	NORAPLAN ENVIROCARE			
TL-1	PORCELAIN FLOOR TILE	DALTILE	VOLUME 1.0	12" X 24"		STEPWISE SLIP RESISTANT TECHNOLOGY
WD-1	ENGINEERED HARDWOOD	ARMSTRONG FLOORING	TIMBERTONES			WITH ARMSTRONG TIMBERTONES STAIR NOSING, SEE INTERIOR SECTION DETAILS
INTERIOR PAINT						
P-1	INTERIOR WALL PAINT	BENJAMIN MOORE				
P-2	INTERIOR WALL PAINT	BENJAMIN MOORE				EPOXY
P-3	INTERIOR CEILING PAINT	BENJAMIN MOORE				
P-4	INTERIOR WALL PAINT - ACCENT COLOR	BENJAMIN MOORE				EPOXY
P-5	INTERIOR WALL PAINT - ACCENT COLOR	BENJAMIN MOORE				
VINYL FILM						
VF-1	VINYL FILM					
WALL BASE						
RB-1	RUBBER BASE	ROPPE	700 SERIES	4" TALL		
RB-2	INTEGRAL RUBBER BASE	MANNINGTON COMMERCIAL	IDEALBASE	6" TALL		
WALLS						
FRP-1	FIBRE REINFORCED PLASTIC	MARLITE	SYMMETRIX			
TL-2	CERAMIC WALL TILE	DALTILE	BRYNE	12" X 24"		STACKED VERTICAL
TL-3	CERAMIC WALL TILE	DALTILE	COLOR WHEEL CLASSIC	3" X 6"		STACKED VERTICAL
WC-1	CUSTOM GRAPHIC WALL COVERING	MOMENTUM	DIGITAL MURAL	SEE INTERIOR ELEVATIONS		

WINDOW SHADE SCHEDULE

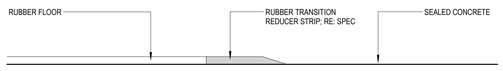
MARK	DESCRIPTION	HARDWARE					SCREEN		
		MANUFACTURER	MODEL	FASCIA	FINISH	BRACKETS	FABRIC	OPENNESS	COLOR
WS-1	MANUAL ROLLER SHADE	ROLLEASE ACMEDA	SKYLINE	4" RECTANGULAR	GRAY	STANDARD	KLEENSCREEN SOLAR	3%	ALLOY
WS-2	MANUAL ROLLER SHADE - BLACKOUT	ROLLEASE ACMEDA	SKYLINE	4" RECTANGULAR	GRAY	STANDARD	KLEENSCREEN BLACKOUT	BLACKOUT	ALLOY
WS-3	AUTOMATIC ROLLER SHADE - BLACKOUT			4" RECTANGULAR	GRAY		KLEENSCREEN BLACKOUT	BLACKOUT	ALLOY

ROOM FINISH SCHEDULE

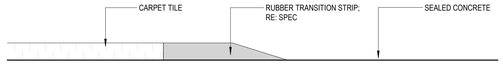
ROOM #	ROOM NAME	FLOOR	BASE	WALL	CEILING
FIRST FLOOR					
100	LOBBY	CONC-1	RB-1	P-1	EXPOSED DECK
101	FLEX SPACE	CONC-1	RB-1	P-1	PTD. GYP - P-3
102	CORRIDOR	CONC-1	RB-1	P-1	EXPOSED DECK
103	CO-WORKING SPACE 1	CPT-1	RB-1	P-1	ACT-1
104	CO-WORKING SPACE 2	CPT-1	RB-1	P-1	ACT-1
105	WOMEN'S RESTROOM	TL-1	ASSOC. TL TRIM	P-2, TL-2	PTD. GYP - P-3
106	MEN'S RESTROOM	TL-1	ASSOC. TL TRIM	P-2, TL-2	PTD. GYP - P-3
107	JAN. CLO.	CONC-1	RB-1	P-1	EXPOSED DECK
108	ELECT. RM.	CONC-1	RB-1	P-1	EXPOSED DECK
109	IT RM.	CONC-1	RB-1	P-1	EXPOSED DECK
110	SPRINKLER RM.	CONC-1	RB-1	P-1	EXPOSED DECK
111	STORAGE	CONC-1	RB-1	P-1	EXPOSED DECK
112	LOADING DOCK	CONC-1	RB-1	P-1	EXPOSED DECK
113	WET LAB	RF-1	RB-2	P-2, P-4	ACT-2
114	CRAFT LAB	CONC-1	RB-1	P-2, P-4	ACT-1
115	CRAFT STOR.	CONC-1	RB-1	P-2	ACT-1
116	CONF. RM. 1	CPT-1	RB-1	P-1	ACT-1
117	BREAK ROOM	CONC-2	RB-1	FRP-1	ACT-2
118	SHOP STOR.	CONC-1	RB-1	P-2	EXPOSED DECK
119	SHOP OFFICE	CONC-1	RB-1	P-2	ACT-1
120	METAL SHOP	CONC-1	RB-1	P-2, P-4	ACT-1
121	WOOD SHOP	CONC-1	RB-1	P-2, P-4	EXPOSED DECK
122	MAKER SPACE + PROTOTYPE	CONC-1	RB-1	P-2, P-4	EXPOSED DECK
123	COMPUTER/ ROBOTICS	CONC-1	RB-1	P-2, P-4	EXPOSED DECK
STR 1	STAIR 1	CONC-1	RB-1	P-1	PTD. GYP - P-3
STR 2	STAIR 2	CONC-1	RB-1	P-1	PTD. GYP - P-3
SECOND FLOOR					
200	COLLABORATIVE STAIR	WD-1	RB-1	P-1	EXPOSED DECK. ACST-1
201	FLEX SPACE	CONC-1	RB-1	P-1	EXPOSED DECK
202	WOMEN'S RESTROOM	TL-1	ASSOC. TL TRIM	P-2, TL-2	PTD. GYP - P-3
203	MEN'S RESTROOM	TL-1	ASSOC. TL TRIM	P-2, TL-2	PTD. GYP - P-3
204	MULTI-PURPOSE RM	CPT-2	RB-1	P-1	ACT-1
206	ELECT. RM.	CONC-1	RB-1	P-1	EXPOSED DECK
207	IT RM.	CONC-1	RB-1	P-1	EXPOSED DECK
208	DIGITAL MEDIA / GAMING	CPT-2	RB-1	P-2, P-4	ACT-3
209	DIGITAL MEDIA / GAMING STORAGE	CPT-2	RB-1	P-2	ACT-1
210	PRIVATE GROUP POD	CPT-2	RB-1	P-2, P-4	ACT-1
211	BREAK RM	CONC-1	RB-1	P-1	ACT-1
212	CONF. RM 3	CPT-1	RB-1	P-1	ACT-1
213	OPEN OFFICE	CPT-1	RB-1	P-1	ACT-1
214	VESTIBULE	CPT-1	RB-1	P-1	ACT-1
215	TOILET RM	TL-1	ASSOC. TL TRIM	P-2, TL-3	PTD. GYP - P-3
216	OFFICE	CPT-1	RB-1	P-1	ACT-1
217	OFFICE	CPT-1	RB-1	P-1	ACT-1
218	EXECUTIVE OFFICE	CPT-1	RB-1	P-1	ACT-1
219	PRIVATE TOILET RM	TL-1	ASSOC. TL TRIM	P-2, TL-3	PTD. GYP - P-3
220	OFFICE STORAGE	CPT-1	RB-1	P-1	ACT-1
221	OFFICE	CPT-1	RB-1	P-1	ACT-1
222	OFFICE	CPT-1	RB-1	P-1	ACT-1
223	CONF. RM. 2	CPT-1	RB-1	P-1	ACT-1
224	OFFICE CORRIDOR	CONC-1	RB-1	P-1	ACT-1
225	CO-WORKING SPACE 5	CPT-1	RB-1	P-1	ACT-1
226	CO-WORKING SPACE 4	CPT-1	RB-1	P-1	ACT-1
227	CO-WORKING SPACE 3	CPT-1	RB-1	P-1	ACT-1
228	PHONEBOOTH	CPT-1	RB-1	P-1	ACT-1
228	CLOSET	CONC-1	RB-1	P-1	ACT-1
229	CORRIDOR	CONC-1	RB-1	P-1	ACT-1



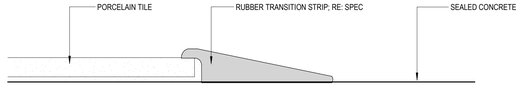
1 A213 A901 PORCELAIN TILE TO CARPET TILE TRANSITION
12" = 1'-0"



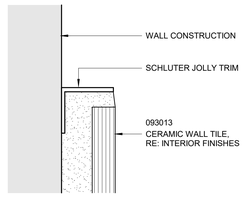
2 A213 A901 RUBBER FLOOR TO SEALED CONCRETE TRANSITION
12" = 1'-0"



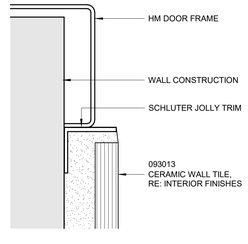
3 A213 A901 CARPET TILE TO SEALED CONCRETE TRANSITION
12" = 1'-0"



4 A213 A901 PORCELAIN TILE TO SEALED CONCRETE TRANSITION
12" = 1'-0"



5 A300 A901 CERAMIC WALL TILE WAINSCOT TRIM
12" = 1'-0"



6 A300 A901 CERAMIC WALL TILE @ HM DOOR FRAME
12" = 1'-0"

studio kiro

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
09/08/2025	50% DESIGN DEVELOPMENT
10/13/2025	100% DD / GMP
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

1	REVISION 1	11/10/2025

DOMINIC A. WILLARD, JR. REG. No. 7529 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: 2024002

SHEET NAME

INTERIOR SCHEDULES

SHEET NO. A901

LABORATORY ABBREVIATIONS

A	
&	AND
@	AT
ACC	ACCESSIBLE
ADJ	ADJUSTABLE, ADJACENT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT/ARCHITECTURAL
AW	ARCHITECTURAL WOODWORK (SEE ARCH)
B	
BAL	BALANCE
BDNG	BEDDING
BKG	BACKING
BLDG	BUILDING
BLKG	BLOCKING
BO_	BOTTOM OF
BOT	BOTTOM
BRKT	BRACKET
BSC	BIOLOGICAL SAFETY CABINET
BSL-#	BIOLOGICAL SAFETY LEVEL (NUMBER)
C	
C-_	CHANNEL-(SIZE)
CAB	CABINET(S)
CAV	CONSTANT AIR VOLUME
CER	CONTROLLED ENVIRONMENT ROOM
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CH	CANOPY HOOD
CHEM	CHEMICAL / CHEMISTRY
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSURE
CLR	CLEAR
COL	COLUMN
COMP	COMPUTER
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
CS	CUP SINK
CSWK	CASEWORK
CTR	COUNTER
CTRL	CONTROL(LED)
CYL	CYLINDER
D	
D	DEEP, DEPTH
DEG	DEGREE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING(S)
E	
E	EAST
EA	EACH
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMER	EMERGENCY
ENGR	ENGINEER
ENVIR	ENVIRONMENT(AL)
EP	ELECTRICAL PANEL (SEE ELECTRICAL)
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERIOR
F	
F	FILLER (VERIFY WIDTH)
F#	FILLER, (NUMBER) INCH WIDE
FB	FIRE BLANKET (SEE DIV 10 SECTION)
FD	FLOOR DRAIN (SEE PLUMBING)
FE	FIRE EXTINGUISHER/BRACKET (SEE DIV 10 SECTION)
FEC	FIRE EXTINGUISHER CABINET (SEE DIV 10 SECTION)
FH	FUME HOOD
FLAM	FLAMMABLE
FLR	FLOOR
FMFH	FLOOR MOUNT FUME HOOD
FRZ	FREEZER
FT	FOOT/FEET
FUT	FUTURE
G	
GA	GAUGE
GALV	GALVANIZED
GL	GLASS
GT	GROUT
GYP BD	GYPSUM BOARD
H	
H	HIGH/HEIGHT
HAZ	HAZARD(OUS)
HB	HOSE BIBB (SEE PLUMBING)
HCW	HOT/COLD WATER FIXTURE
HDW	HARDWARE
HORIZ	HORIZONTAL
HT	HEIGHT
HVY	HEAVY
I	
ID	INSIDE DIAMETER
IN	INCH(ES)
INC	INCUBATOR
INSUL	INSULATION
INT	INTERIOR
ISO	ISOLATION
J	
JT	JOINT
K	
KS	KNEE SPACE

L	
L-_	ANGLE-(SIZE)
L	LENGTH
LAB	LABORATORY
LAM	LAMINATE
LBS	POUNDS
LEV	LOCAL EXHAUST VENT
LIQ	LIQUID
LKR	LOCKER (SEE DIV 10 SECTION)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LAB TABLE
M	
MATL	MATERIAL
MAX	MAXIMUM
MC	MOBILE CART
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MKR BD	MARKER BOARD (SEE DIV 10 SECTION)
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MW	MOVEABLE WORKSTATION
N	
N	NORTH
NA	NOT APPLICABLE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSC	OVERHEAD SERVICE CARRIER
P	
PE	POLYETHYLENE
PHEN	PHENOLIC
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POS	POSITIVE
PP	POLYPROPYLENE
PROJ SCRN	PROJECTION SCREEN (SEE DIV 11 SECTION)
PTD	PAPER TOWEL DISPENSER (SEE DIV 10 SECTION)
PTFH	PASS THROUGH FUME HOOD
PTN	PARTITION
Q	
QTY	QUANTITY
R	
R=	RADIUS (DIMENSION)
RAD	RADIUS
RCP	REFLECTED CEILING PLAN (SEE ARCHITECTURAL)
RE	REFER TO
REC	RECESSED
REF	REFRIGERATOR
REQ	REQUIRE(D)
REQ'S	REQUIREMENTS
REV	REVISION
RH	RELATIVE HUMIDITY
RM	ROOM
S	
S	SOUTH
SBSTR	SUBSTRATE
SCF	SLOTTED CHANNEL FRAMING (SEE DIV 05 SECTION)
SD	SOAP DISPENSER (SEE DIV 10 SECTION)
SHR	SHOWER
SHT	SHEET
SHV	SHELF/SHELVING
SIM	SIMILAR
SK	SINK
SP	SPACE(S)
SQ	SQUARE
SPEC	SPECIFICATION
SS	SAFETY SHOWER / SAFETY STATION
SSM	SOLID SURFACE MATERIAL
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE/STRUCTURAL
T	
T	THICK(NESS)
TEMP	TEMPERATURE
TFH	TEACHING FUME HOOD
THK	THICK(NESS)
THRU	THROUGH
TK BD	TACK BOARD (SEE DIV 10 SECTION)
TO	TOP OF
TR	TROUGH
TS-#	TUBE STEEL-(SIZE)
TYP	TYPICAL
U	
UC	UNDER-COUNTER, UNDER CABINET
UCL	UNDER-CABINET LIGHT
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	
VAR	VARIES
VAV	VARIABLE AIR VOLUME
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
W	
W	WEST
W	WIDE/WIDTH
W/	WITH
W/O	WITHOUT
WD	WOOD
WT	WEIGHT
WW	WIREWAY (SEE ELECTRICAL)

EQUIPMENT MATRIX AND GENERAL LABORATORY SERVICE ABBREVIATIONS

ELECTRICAL UTILITY KEY

AP	ALARM POWER
D	DATA
DE	DEDICATED ELECTRICAL OUTLET
E	ELECTRICAL
EM	EMERGENCY POWER
GR	GROUNDED
HW	HARDWIRED
P	PLUG
SP	OPTIONAL STANDBY POWER
UPS	UNITERRUPTIBLE POWER SUPPLY

MECHANICAL UTILITY KEY

CC	CONDENSING/COOLING WATER
CHW	CHILLED WATER
EXH	EXHAUST

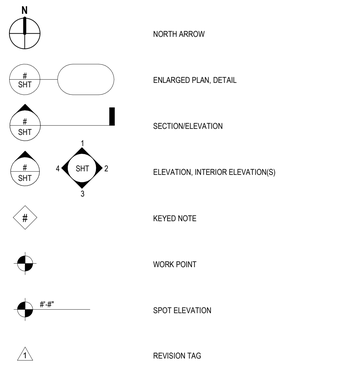
PLUMBING UTILITY KEY

AM	AIR, MEDICAL/BREATHING
AR	ARGON GAS
CA	COMPRESSED AIR
CO2	CARBON DIOXIDE
CS	CUP SINK W/ DRAIN
CW	COLD WATER
DH	DRENCH HOSE
DI	DEIONIZED WATER
DW	DISTILLED WATER
EW	EYEWASH
H	HYDROGEN
HE	HELIUM
HW	HOT WATER
HCW	HOT/COLD WATER
LN2	LIQUID NITROGEN
N	NITROGEN
NG	NATURAL GAS
O2	OXYGEN
PCW	PROCESSED CHILLED WATER
PR	PRE-RINSE
PW	PURE WATER
RO	REVERSE OSMOSIS WATER
S	STEAM
SG-	SPECIAL GAS-(CHEMICAL SYMBOL)
V	VACUUM
ZA	ZERO AIR

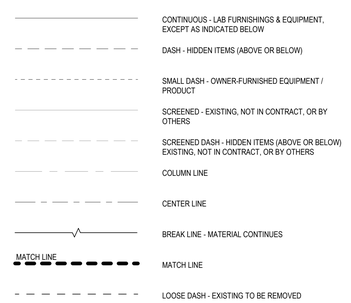
STANDARD ABBREVIATIONS

Y	YES
N	NO

REFERENCE SYMBOLS LEGEND



LINE TYPE LEGEND



LABORATORY PLAN SYMBOLS LEGEND

LABORATORY FURNISHINGS AND EQUIPMENT KEYED NOTES

SHOWN X

1	ELECTRICAL RACEWAY, SEE ELEC DWGS
2	ELEC CORD REELS, SEE ELEC DWGS
3	COMPRESSED AIR (CA) CORD REELS, SEE MECH DWGS
4	TUB SINK, SEE PLUMB DWGS
5	SAFETY STATION, SEE PLUMB DWGS
6	FURNITURE, SEE ARCH DWGS

LABORATORY FURNISHINGS & EQUIPMENT DRAWING LIST

QL001	ABBREVIATIONS, LEGENDS AND NOTES
QL010	SCHEDULES - LAB TABLES AND FUME HOODS
QL011	SCHEDULES - LAB SINKS AND SERVICE FITTINGS
QL012	SCHEDULES - LAB ACCESSORIES
QL020	LABORATORY EQUIPMENT MATRIX
QL030	LAB CASEWORK TYPES, LEGENDS AND NOTES
QL201	LEVEL 01 - OVERALL PLAN
QL202	LEVEL 02 - OVERALL PLAN
QL311	LEVEL 01 - COMPUTER / ROBOTICS ENLARGED PLAN
QL312	LEVEL 01 - MAKER SPACE / PROTOTYPE ENLARGED PLAN
QL313	LEVEL 01 - WOODWORKING / METAL SHOP ENLARGED PLAN
QL314	LEVEL 01 - CRAFT LAB ENLARGED PLAN
QL315	LEVEL 01 - WET LAB ENLARGED PLAN
QL316	LEVEL 02 - DIGITAL MEDIA ENLARGED PLAN
QL901	LABORATORY DETAILS - CASEWORK SECTIONS

GENERAL NOTES

A. DO NOT SCALE DRAWINGS, USE DIMENSIONS. DIMENSIONS NOTED "AS REQUIRED", "VERIFY", "VERIFY IN FIELD", "MATCH EXISTING", OR OTHER SIMILAR TERMS ARE TO VERIFIED BY THE CONTRACTOR. NOTIFY ARCHITECT OF DISCREPANCIES AND OBTAIN CLARIFICATION BEFORE PROCEEDING.
B. CONDITIONS SHOWN ARE APPROXIMATE BASED ON INFORMATION FURNISHED. NOTIFY ARCHITECT AND LABORATORY PLANNER OF DISCREPANCIES AND OBTAIN CLARIFICATION BEFORE PROCEEDING.
C. LAB CASEWORK SHALL BE METAL CASEWORK.
D. LAB COUNTER TOPS SHALL BE EPOXY, UNO.
E. LAB COUNTER TOP HEIGHT SHALL BE 34", UNO.
F. REFER TO SHEET QL-030 FOR OTHER LAB CASEWORK GENERAL NOTES.
G. WIRE SHELVING, WASTE BINS, AND OTHER SIMILAR FURNITURE/FURNISHING TYPE ITEMS WITH TEXT LABEL ARE SHOWN FOR REFERENCE ONLY (NIC).
H. REFER TO LABORATORY EQUIPMENT MATRIX FOR LAB EQUIPMENT REFERENCE INFORMATION.

SHEET NOTES

LEGEND

HERA laboratory planners

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS, LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

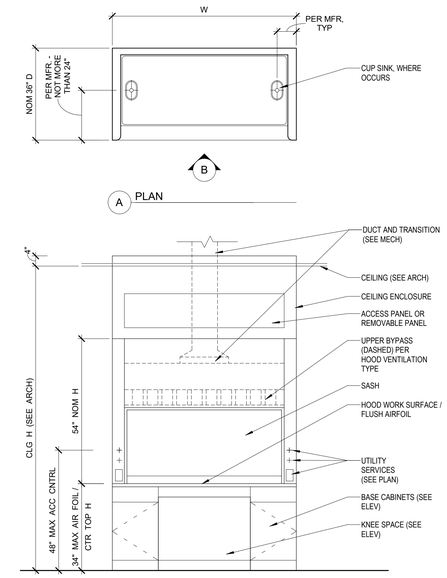
CARLOS PEREZ-RUBIO Reg. No. 9825 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: Project Number

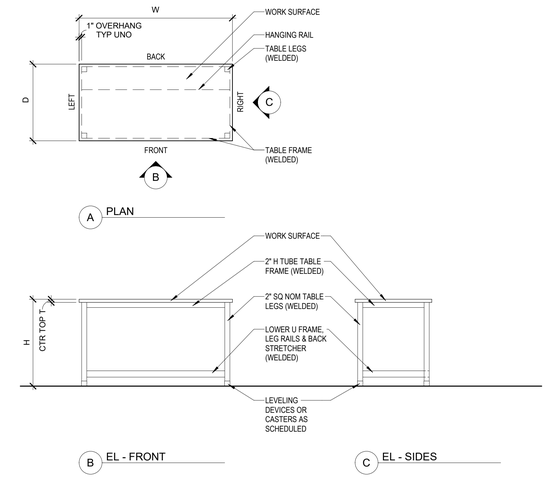
SHEET NAME

ABBREVIATIONS, LEGENDS AND NOTES

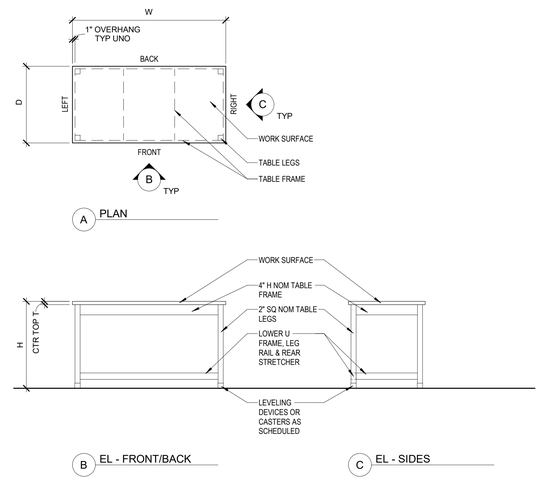
SHEET NO. QL001



3 FUME HOOD - TYPE D - ACCESSIBLE GENERAL PURPOSE
1/2" = 1'-0"



2 DETAIL - WELDED TABLE FRAME
1/2" = 1'-0"



1 DETAIL - STANDARD TABLE FRAME
1/2" = 1'-0"

LABORATORY FUME HOOD SCHEDULE

TAG	TYPE	VENTILATION	SASH TYPE	WORK SURFACE MATERIAL	WORK SURFACE HEIGHT (INCHES)	DETAIL	NOTES
FH-5D	GENERAL PURPOSE, ACCESSIBLE ADA COMPLIANT BENCH TYPE	VAV	VERTICAL	EPOXY	34	3 / QL010	1, 2

FUME HOOD SCHEDULE GENERAL NOTES:

A. ALL FUME HOODS MAY NOT BE USED. REFER TO LABORATORY PLANS.
B. REFER TO LAB PLAN TAG FOR UNIT WIDTH (#=FEET).
C. FUME HOOD DEPTH NOMINAL 36", UNO.
D. SEE MECHANICAL FOR EXHAUST CONNECTION, INCLUDING DUCT.
E. SEE PLUMBING AND ELECTRICAL FOR UTILITY SERVICE CONNECTIONS.
F. FUME HOOD WORK SURFACE SHALL BE 1-1/4" THICK EPOXY RESIN W/ RAISED (MARINE) EDGE, UNO.

FUME HOOD SCHEDULE KEYED NOTES:

1. THE COMBINATION OF BASE CABINETS, WORK SURFACE AND AIR FOIL AT ACCESSIBLE FUME HOODS SHALL NOT EXCEED 34" TO TOP OF WORK SURFACE OR AIR FOIL, WHICHEVER IS HIGHER.
2. ACCESSIBLE FUME HOOD MAXIMUM VERTICAL REACH TO OPERATING CONTROLS SHALL NOT EXCEED 48" AFF; MAXIMUM HORIZONTAL REACH TO SERVICE OUTLET SHALL NOT EXCEED 24" FROM FRONT OF HOOD.

LABORATORY TABLE SCHEDULE

TAG	WORK SURFACE (INCHES) W	D	H	TABLE FRAME MATERIAL	WORK SURFACE MATERIAL	SUSPENDED CABINET MATERIAL	TABLE FRAME TYPE	DETAIL	NOTES
LT-01	60	30	34	METAL	EPOXY	--	D	2 / QL010	3
LT-02	72	30	34	METAL	EPOXY	--	A	1 / QL010	
LT-03	60	36	34	METAL	EPOXY	--	A	1 / QL010	
LT-04	72	36	34	METAL	EPOXY	--	A	1 / QL010	

TABLE SCHEDULE GENERAL NOTES:

A. ALL LAB TABLES MAY NOT BE USED. REFER TO LABORATORY PLANS.
B. WORK SURFACE SHALL OVERHANG TABLE FRAME MINIMUM 1" EACH SIDE, UNO.
C. PROVIDE HEIGHT ADJUSTABLE LEVELING DEVICES AT EACH TABLE LEG, UNO.
D. TABLE FRAME MATERIAL SHALL BE METAL, UNO.

TABLE FRAME TYPE LEGEND

TYPE-A METAL TABLE FRAME
TYPE-D FULLY-WELDED TABLE FRAME

TABLE SCHEDULE KEYED NOTES:

1. POWER/DATA GROMMET (TYPE-#) AND CABLE TRUNKING, BACK-RIGHT LOCATION; LEFT REAR WHERE PLAN TAG SUFFIX "L" OCCURS.
2. PROVIDE H-FRAME STRETCHER ASSEMBLY IN LIEU OF STANDARD U-FRAME.
3. 4" DIA. SWIVEL/LOCKING CASTERS.
4. COMBINATION LEVELING CASTERS.
5. 3" OVERHANG FRONT AND BACK OF TABLE TO ALLOW FOR APPARATUS CLAMPING.
6. CABINET LOCKS AT DOORS/DRAWERS.
7. PENCIL DRAWER.
8. FIXED TABLE LOCATION; PROVIDE HOLD-DOWN CLIPS AT EACH LEG AND LEG SHOES.
9. UPRIGHT ROD ASSEMBLY AND CROSS-BAR.

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS, LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
12/15/2025	50% CD'S
01/19/2026	PERMIT SET

REVISIONS

CARLOS PEREZ-RUBIO Reg. No. 9825 STATE OF LOUISIANA REGISTERED ARCHITECT 01/19/26

WDG Project No: Project Number

SHEET NAME
SCHEDULES - LAB TABLES AND FUME HOODS

SHEET NO. QL010

LABORATORY SINK SCHEDULE

TAG	SINK TYPE (COMPARTMENT)	NOMINAL COMPARTMENT SIZE (INCHES)			MATERIAL	MOUNTING	NOTES
		W	D	H			
LS-01	SINGLE	25	15	10	EPOXY	DROP-IN	
LS-02	SINGLE	25	15	5	EPOXY	DROP-IN	1
LS-03	SINGLE	25	15	18	EPOXY	DROP-IN	
LS-31	CUP SINK	6	3	4	EPOXY	DROP-IN	2, 3

LAB SINK SCHEDULE GENERAL NOTES:

A. NOT ALL SINK TYPES ARE USED. REFER TO LAB PLANS.
B. REFER TO DETAIL 1 / QL011 FOR TYPICAL SINK SERVICE FITTING MOUNTING CONDITIONS.
C. EPOXY SINKS, PROVIDE WITH CORNER DRAIN.
D. STAINLESS STEEL SINKS, PROVIDE WITH CENTER DRAIN.

LAB SINK SCHEDULE KEYED NOTES:

1. ACCESSIBLE SINK.

SERVICE FITTING SCHEDULE

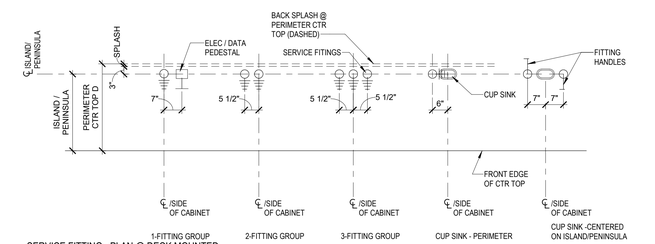
SERVICE TAG	SPECIFICATION SECTION	DESCRIPTION	MOUNTING LOCATION	BASIS OF DESIGN		NOTES
				MANUFACTURER	MODEL NUMBER	
01 WATER SERVICE FITTING						
HC-1	12 35 53	LABORATORY MIXING FAUCET, DECK MOUNTED, 6" RIGID/SWING VACUUM BREAKER GOOSENECK, WRIST BLADE HANDLES	BENCH	WATERSAVER	L414VB-BH	FURNISH REMOVABLE SERRATED HOSE END
02 GAS SERVICE FITTING						
CA-1	12 35 53	LABORATORY BALL VALVE ASSEMBLY, DECK MOUNTED SINGLE	BENCH	WATERSAVER	L4200-131WSA	--
CA-3	12 35 53	LABORATORY BALL VALVE ASSEMBLY, DECK MOUNTED DOUBLE 180	BENCH	WATERSAVER	L4200-132SWSA	--
V-1	12 35 53	LABORATORY BALL VALVE ASSEMBLY, DECK MOUNTED SINGLE	BENCH	WATERSAVER	L4200-131WSA	--
04 SAFETY SERVICE FITTING						
DH-1	12 35 53	EYEWASH/DRENCH HOSE UNIT, DECK MOUNTED, WITH BACKFLOW PREVENTER AND HOSE GUIDE	BENCH	WATERSAVER	EW1022BP-HG	--
EW	12 35 53	EYEWASH, DECK MOUNTED, AUTOFLOW 90 DEGREE SWING-DOWN	PANEL	WATERSAVER	EW848	COORDINATE WITH ADJACENT PLUMBING FIXTURES FOR SPRAY-HEAD LOCATION.
EW-1	12 35 53	EYEWASH, DECK MOUNTED, AUTOFLOW 90 DEGREE SWING-DOWN	BENCH	WATERSAVER	EW849LH-R	COORDINATE WITH ADJACENT PLUMBING FIXTURES FOR SPRAY-HEAD LOCATION.

SERVICE FITTINGS SCHEDULE GENERAL NOTES:

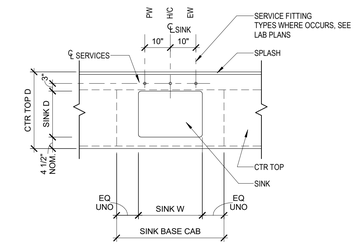
A. REFER TO LABORATORY PLANS AND ELEVATIONS FOR SERVICE FITTING LOCATIONS.

SERVICE FITTINGS SCHEDULE KEYED NOTES:

1. ------



2 SERVICE FITTING - PLAN @ DECK MOUNTED FITTINGS
1/2" = 1'-0"



1 SERVICE FITTINGS - PLAN @ LAB SINKS
1/2" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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WDG Project No: Project Number

SHEET NAME

SCHEDULES - LAB SINKS AND SERVICE FITTINGS

SHEET NO. QL011

LABORATORY ACCESSORIES SCHEDULE

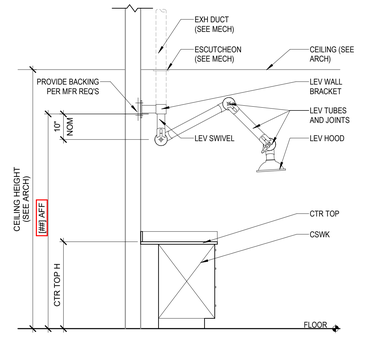
TAG	SPECIFICATION SECTION	DESCRIPTION	NOMINAL UNIT SIZE (IN)			BASIS OF DESIGN		COMMENTS	DETAIL	NOTES
			W	D	H	MANUFACTURER	MODEL NUMBER			
LA-A	12 40 53	GAS CYLINDER BRACKET	12"	11"	36"	SAFE-T-RACK SYSTEMS, INC.	SAFE-T-RACK BLOCK, MODEL CB-1C (HIGH), AND MODEL CB-1 (LOW)	TWO BRACKETS PER CYLINDER; 1-HIGH W/ STRAP AND CHAIN; 1-LOW W/ STRAP		
LA-F	12 40 53	45 GALLON, 2 SHELVES, 2 DOOR SELF-CLOSE, FLAMMABL SPECIAL PURPOSE SAFETY CABINET, SURE-GRIP EX, YELLOW	43"	18"	65"	JUSTRITE	894520		2 / QL012	
LA-M	12 40 53	LAB COAT HOOKS - WALL MOUNTED	36 1/2"	3 1/2"	5"	GLOBAL INDUSTRIAL	695312	BLACK	3 / QL012	
LE-A2	12 40 53	LOCAL EXHAUST VENT				MOVEX	ME	DOME HOOD; ARTICULATING ARM, WALL MOUNTED	4 / QL012	
PB-A	12 35 53	PEG BOARD - TYPE A	24"	1"	36"	BY CASEWORK MFG.	BY CASEWORK MFG.			
WS-4824	12 40 53	WIRE SHELVING	48"	24"	86"	METRO	SUPER ERECTA	BLACK EPOXY	- / ---	
WS-6018	12 40 53	WIRE SHELVING	60"	18"	86"	METRO	SUPER ERECTA	BLACK EPOXY		
WS-6024	10 56 13	WIRE SHELVING	60"	24"	86"	METRO	SUPER ERECTA	BLACK EPOXY	1 / QL012	
WS-7224	12 40 53	WIRE SHELVING	72"	30"	86"	METRO	SUPER ERECTA	BLACK EPOXY		

LABORATORY ACCESSORIES SCHEDULE GENERAL NOTES:

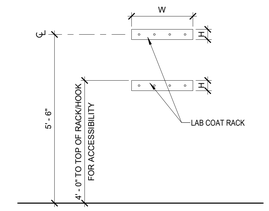
A. FIRST GENERAL NOTE GOES HERE.
B. SECOND GENERAL NOTE GOES HERE.

LABORATORY ACCESORIES SCHEDULE KEYED NOTES:

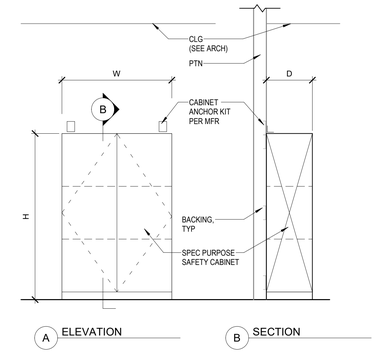
1. FIRST KEYED NOTE GOES HERE.
2. SECOND KEYED NOTE GOES HERE.



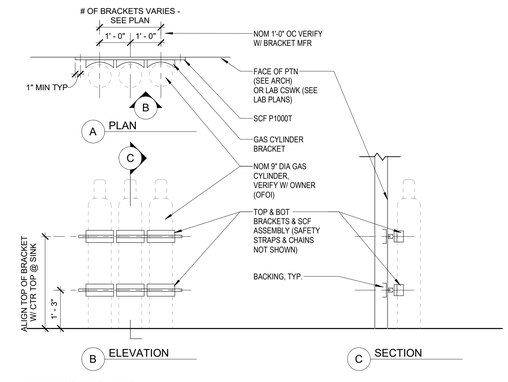
5 LOCAL EXHAUST SNORKEL - TYPE A2
1/2" = 1'-0"



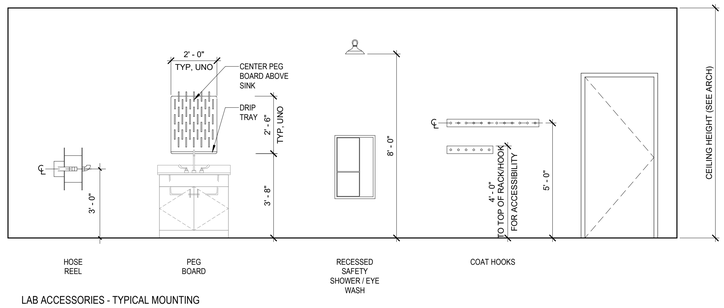
4 LAB COAT RACK
1/2" = 1'-0"



3 SPECIAL PURPOSE SAFETY CABINET - FLAMMABLE/HAZARDOUS
1/2" = 1'-0"



2 GAS CYLINDER BRACKET
1/2" = 1'-0"



1 LAB ACCESSORIES - TYPICAL MOUNTING HEIGHTS
3/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

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WDG Project No: Project Number

SHEET NAME

SCHEDULES - LAB ACCESSORIES

SHEET NO. QL012

LABORATORY EQUIPMENT MATRIX OFCI

EQUIPMENT INFORMATION						TRACKING DATA					DIMENSIONS								SPECIAL REQUIREMENTS			MECHANICAL						ELECTRICAL/DATA							PLUMBING							
GROUP NAME	EQUIPMENT NUMBER	EQUIPMENT ABBREVIATION	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NUMBER	FURNISHED BY	MOUNTING LOCATION	NEW	NEW ROOM NUMBER AND NAME	QUANTITY	DIAMETER (IN)	WIDTH (IN)	DEPTH (IN)	HEIGHT (IN)	CLEARANCE (FRONT)	CLEARANCE (BACK)	CLEARANCE (SIDE)	CLEARANCE (TOP)	WEIGHT (LBS)	REMARKS/ADJACENCIES	TESTING PROCESS	VIBRATION	SUPPLY	EXHAUST	CONNECTION	CFM (CUBIC FEET PER MINUTE)	HEAT (BTU PER HOUR)	UTILITIES	# OF OUTLETS	VOLTAGE	AMPERAGE	PHASE	RECEPTACLE TYPE	WATTAGE	OTHER ELECTRICAL UTILITIES	DATA CONNECTION	DRAIN	WASTE	UTILITIES	REGULATOR	FITTING TYPE (INLET/OUTLET)	FURNISHED BY (CF, OF)	INSTALLED BY (CI, OI)	PSI RANGE
CRAFT LAB	CL001	SEW MACHINE	SEWING MACHINE	BERNINA	B790 PRO	OFCI	B	YES	CRAFT LAB	1	0"	23"	9"	15"	0"	0"	0"	1"		FOOT PEDAL CONTROL ON FLOOR	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0	0	0	0	0	0	0	0	0	0
CRAFT LAB	CL002	OVERLOCK	OVERLOCK/COVERSTITCH COMBO	BERNINA	L890	OFCI	B	YES	CRAFT LAB	1	0"	21"	9"	14"	0"	0"	0"	1"		FOOT PEDAL CONTROL ON FLOOR	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0	0	0	0	0	0	0	0	0	0
CRAFT LAB	CL003	HEAT PRESS	HEAT PRESS	VEVOR	TL4060-1	OFCI	B	YES	CRAFT LAB	1	0"	25"	24"	15"	0"	0"	0"	1"		HEIGHT IS WHEN CLOSED. WILL NEED 36" MIN. CLR. ABOVE TO OPEN	0	0	0	0	0	0	0	0	1	110	0	0	P	1700 W	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL004	CNC EMBROID	CNC EMBROIDERY MACHINE	BERNINA	E 16 PRO	OFCI	B	YES	CRAFT LAB	1	0"	21"	29"	18"	0"	0"	0"	1"		FOOT PEDAL CONTROL ON FLOOR	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL005	KILN	FRONT LOADING KILN	L&L KILNS	eFL2635-208-3P	OFCI	F	YES	CRAFT LAB	1	0"	46"	41"	73"	40"	0"	8"	1"		--	0	0	0	0	0	0	0	0	1	208	61.1	3	P	W	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL006	LAMINATION	LAMINATION	D&K	Minikote 27" LAMINATOR W/ KEY LOCK	OFCI	B	YES	CRAFT LAB	1	0"	34"	15"	20"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	W	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL008	BIN ORG	CLOSED BIN ORGANIZER TALL CASE	ULINE	H-4919GR	OFCI	F	YES	CRAFT LAB	1	0"	36"	12"	75"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL010	ENGRVR MACHINE	ENGRAVING MACHINE	VEVOR	A7 10W	OFCI	B	YES	CRAFT LAB	1	0"	26"	23"	11"	0"	0"	0"	1"		POWER SUPPLY IS A PORTABLE CHARGER	0	0	0	0	0	0	0	0	1	12V	2.2	0	P	0	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL011	LASER ENGRVR	PORTABLE LASER ENGRAVER	VEVOR	Z3	OFCI	B	YES	CRAFT LAB	1	0"	6"	9"	4"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
CRAFT LAB	CL012	DRY RACK	PORTABLE DRYING RACK	PAINTLINE	PDRTT	OFCI	B	YES	CRAFT LAB	1	0"	16"	32"	36"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP001	MINI CNC	MINI CNC	HAAS	MINI MILL-EDU	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	84"	88"	101"	36"	36"	36"	1"		--	0	0	0	0	0	0	0	AIR	0	220	40	1	P	W	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP002	3D PRNT	3D PRINTER	BAMBU LAB	X1E	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	16"	16"	18"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	100-240	0	1	P	W	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP003	3D PRNT	3D PRINTER	ULTIMAKER	S7	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	20"	23"	32"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	100-240	0	0	P	MAX 600W	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP004	3D PRNT	3D PRINTER	PRUSA	MK4S	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	18"	21"	17"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP006	MILL	MILL	EMCO	E350	OFCI	F	YES	MAKERSPACE/PROTOTYPE	1	0"	67"	63"	87"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP008	CAL	DIGITAL CALIPER	MITUTOYO	500-196-60	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	10"	3"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP009	MICROMET	MICROMETER	MITUTOYO	293-340-30	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	5"	1"	5"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP010	VICE	VICE	0	0	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	18"	20"	24"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP011	VICE	VICE	0	0	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	18"	20"	24"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP012	VICE	VICE	0	0	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	18"	20"	24"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
MAKERSPACE/ PROTOTYPE	MP014	L CUT	LASER CUTTER	EPILOG	FUSION PRO 32	OFCI	B	YES	MAKERSPACE/PROTOTYPE	1	0"	56"	35"	41"	0"	0"	0"	1"		REQUIRES VENT TO OUTSIDE OR TO A FILTRATION UNIT	0	0	0	2	0	0	0	0	1	110-240	0	1	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS001	VERT MILL	VERTICAL MILL DRILL W/ STAND	GRIZZLY	G0704	OFCI	F	YES	METAL SHOP	1	0"	38"	25"	31"	0"	30"	10"	1"		--	0	0	0	0	0	0	0	0	1	110	15	1	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS002	DRILL PRESS	DRILL PRESS	GRIZZLY	G0925	OFCI	B	YES	METAL SHOP	1	0"	9"	18"	24"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS003	BAND SAW	BAND SAW	GRIZZLY	G0948	OFCI	F	YES	METAL SHOP	1	0"	28"	22"	59"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	1	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS004	BELT GRIND	BELT AND DISC GRINDER	GRIZZLY	G1183	OFCI	B	YES	METAL SHOP	1	0"	33"	17"	30"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	110	15	0	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS005	TBL BAND SAW	TABLE TOP BAND SAW	GRIZZLY	G0803Z	OFCI	F	YES	METAL SHOP	1	0"	21"	17"	30"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	15	1	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS006	BENCH GRIND	BENCH GRINDER	GRIZZLY	G0865	OFCI	B	YES	METAL SHOP	1	0"	16"	14"	15"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	15	0	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS007	HZ MITER SAW	HORIZONTAL MITERING SAW	GRIZZLY	T31635	OFCI	B	YES	METAL SHOP	1	0"	37"	46"	27"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	110	20	1	1-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS008	CHOP SAW	CHOP SAW	DEWALT	D28730	OFCI	B	YES	METAL SHOP	1	0"	14"	23"	18"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	15	0	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS009	METAL LATHE	METAL LATHE COMBO MILL	GRIZZLY	G4015Z	OFCI	B	YES	METAL SHOP	1	0"	23"	42"	35"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	110	8.7	1	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS010	CNC LATHE	CNC LATHE	GRIZZLY	G0884	OFCI	F	YES	METAL SHOP	1	0"	75"	47"	83"	18"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	220	15	3	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS012	BLAST CAB	ABRASIVE BLAST CABINET	GRIZZLY	G0707	OFCI	F	YES	METAL SHOP	1	0"	41"	36"	65"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	110	15	1	5-15 PLUG	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS013	TUBE BEND	MANUAL TUBE BENDER	GRIZZLY	T30860	OFCI	F	YES	METAL SHOP	1	0"	12"	12"	45"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
METAL SHOP	MS014	DUST COLL	DUST COLLECTOR	GRIZZLY	G0548Z	OFCI	F	YES	METAL SHOP	1	0"	38"	32"	71"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE001	SOLDER IRON	SOLDERING IRONS	HAKKO	FX-888D	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	2"	8"	2"	0"	0"	0"	1"		INCLUDES IRON HOLDER	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE002	OSCILO	OSCILOSCOPE AND FUNCTION GENERATOR	POSCOPE	MEGA50	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	3"	2"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE003	M METER	MULTIMETER	FLUKE	87V	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	0	0"	8"	4"	3"	0"	0"	0"	1"		BATTERY POWERED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE004	ESD SCRDRIVER	8 PC ESD-SAFE SCREWDRIVER SET IN POUCH	WIHA	PICOFINISH PRECISION	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	0	0"	10"	3"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE005	PCB MILL	PCB MILL	ACCURATE	A636	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	24"	19"	13"	0"	0"	0"	1"		NEEDS COMPUTER CONNECTION FOR CONTROL AND EDIT SOFTWARE	0	0	0	0	0	0	0	0	1	100-240	0	0	P	355W	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE006	OSCILO	OSCILOSCOPE AND FUNCTION GENERATOR	POSCOPE	MEGA50	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	3"	2"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE007	OSCILO	OSCILOSCOPE AND FUNCTION GENERATOR	POSCOPE	MEGA50	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	3"	2"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
ROBOTICS / ELECTRONIC LAB	RE008	OSCILO	OSCILOSCOPE AND FUNCTION GENERATOR	POSCOPE	MEGA50	OFCI	B	YES	ROBOTICS / ELECTRONIC LAB	1	0"	3"	2"	1"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS001	TBL SAW	TABLE SAW	DEWALT	DWE7485	OFCI	B	YES	WOODSHOP	1	0"	19"	19"	13"	5"	5"	5"	1"		--	0	0	0	0	0	0	0	0	1	230	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS002	MTR SAW	SLIDING COMPOUND MITER SAW	DEWALT	DWS780	OFCI	B	YES	WOODSHOP	1	0"	23"	33"	20"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS003	VERT SAW	VERTICAL BAND SAW	GRIZZLY	G0621X	OFCI	F	YES	WOODSHOP	1	0"	30"	30"	73"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	220	15	1	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS004	DRILL PRESS	DRILL PRESS	DEWALT	DWE1622K	OFCI	B	YES	WOODSHOP	1	0"	7"	23"	20"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS005	DISC SAND	DISC SANDER	GRIZZLY	G0702	OFCI	B	YES	WOODSHOP	1	0"	17"	27"	17"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS006	PNL SAW	PANEL SAW	GRIZZLY	T33598	OFCI	F	YES	WOODSHOP	1	0"	120"	11"	83"	0"	0"	0"	1"		PROVIDE WITH STAND	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS007	SCROLL SAW	SCROLL SAW	DEWALT	DW788	OFCI	B	YES	WOODSHOP	1	0"	20"	30"	13"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS008	CIRC SAW	CIRCULAR SAW	GRIZZLY	T30293X1	OFCI	B	YES	WOODSHOP	1	0"	8"	12"	15"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS009	VICE	VICE	DEWALT	DXMF10BV	OFCI	B	YES	WOODSHOP	1	0"	10"	23"	9"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS010	WOOD LATHE	POWERMATIC WOOD LATHE	POWERMATIC	4224B	OFCI	F	YES	WOODSHOP	1	0"	89"	28"	65"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	220	0	1	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS011	DUST COLL	DUST COLLECTOR	DEWALT	DCV585B	OFCI	F	YES	WOODSHOP	1	0"	14"	22"	13"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS012	TRACK SAW	TRACK SAW	DEWALT	DWS520K / DCS520T1	OFCI	B	YES	WOODSHOP	1	0"	13"	19"	13"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS013	ROUTER	ROUTER	DEWALT	DCW600B	OFCI	B	YES	WOODSHOP	1	0"	7"	9"	6"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS014	JIGSAW	JIGSAW	DEWALT	DCS334B	OFCI	B	YES	WOODSHOP	1	0"	9"	11"	9"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS015	PLANER	PLANER	DEWALT	DCP580B	OFCI	B	YES	WOODSHOP	1	0"	8"	16"	7"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0
WOODSHOP	WS016	ORB SAW	RANDOM ORBITAL SAW	DEWALT	DCW210B	OFCI	B	YES	WOODSHOP	1	0"	6"	8"	6"	0"	0"	0"	1"		--	0	0	0	0	0	0	0	0	1	120	0	0	P	0	0		0	0	0	0	0	0	0	0

LABORATORY EQUIPMENT MATRIX CFCI

EQUIPMENT INFORMATION						TRACKING DATA					DIMENSIONS								SPECIAL REQUIREMENTS			MECHANICAL						ELECTRICAL/DATA							PLUMBING							
GROUP NAME	EQUIPMENT NUMBER	EQUIPMENT ABBREVIATION	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NUMBER	FURNISHED BY	MOUNTING LOCATION	NEW	NEW ROOM NUMBER AND NAME	QUANTITY	DIAMETER (IN)	WIDTH (IN)	DEPTH (IN)	HEIGHT (IN)	CLEARANCE (FRONT)	CLEARANCE (BACK)	CLEARANCE (SIDE)	CLEARANCE (TOP)	WEIGHT (LBS)	REMARKS/ADJACENCIES	TESTING PROCESS	VIBRATION	SUPPLY	EXHAUST	CONNECTION	CFM (CUBIC FEET PER MINUTE)	HEAT (BTU PER HOUR)	UTILITIES	# OF OUTLETS	VOLTAGE	AMPERAGE	PHASE	RECEPTACLE TYPE	WATTAGE	OTHER ELECTRICAL UTILITIES	DATA CONNECTION	DRAIN	WASTE	UTILITIES	REGULATOR	FITTING TYPE (INLET/OUTLET)	FURNISHED BY (CF, OF)	INSTALLED BY (CI, OI)	PSI RANGE
WET LAB	GW-01	GW	GLASSWARE WASHER	LABCONCO	FLASKSCRUBBER 4420321	CFCI	F	YES	WET LAB	1	0"	25"	28"	32 3/32"	0"	0"	0"	1"		0	0	0	0	0	0	0	0	0	1	115	0	1	0	0	0	DE 20AMP CIRCUIT	0	0	HW	0	0	0	0	0

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

WILLARD DESIGN GROUP
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SPECIALIZED STEM MULTI-PURPOSE BUILDING

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REVISIONS

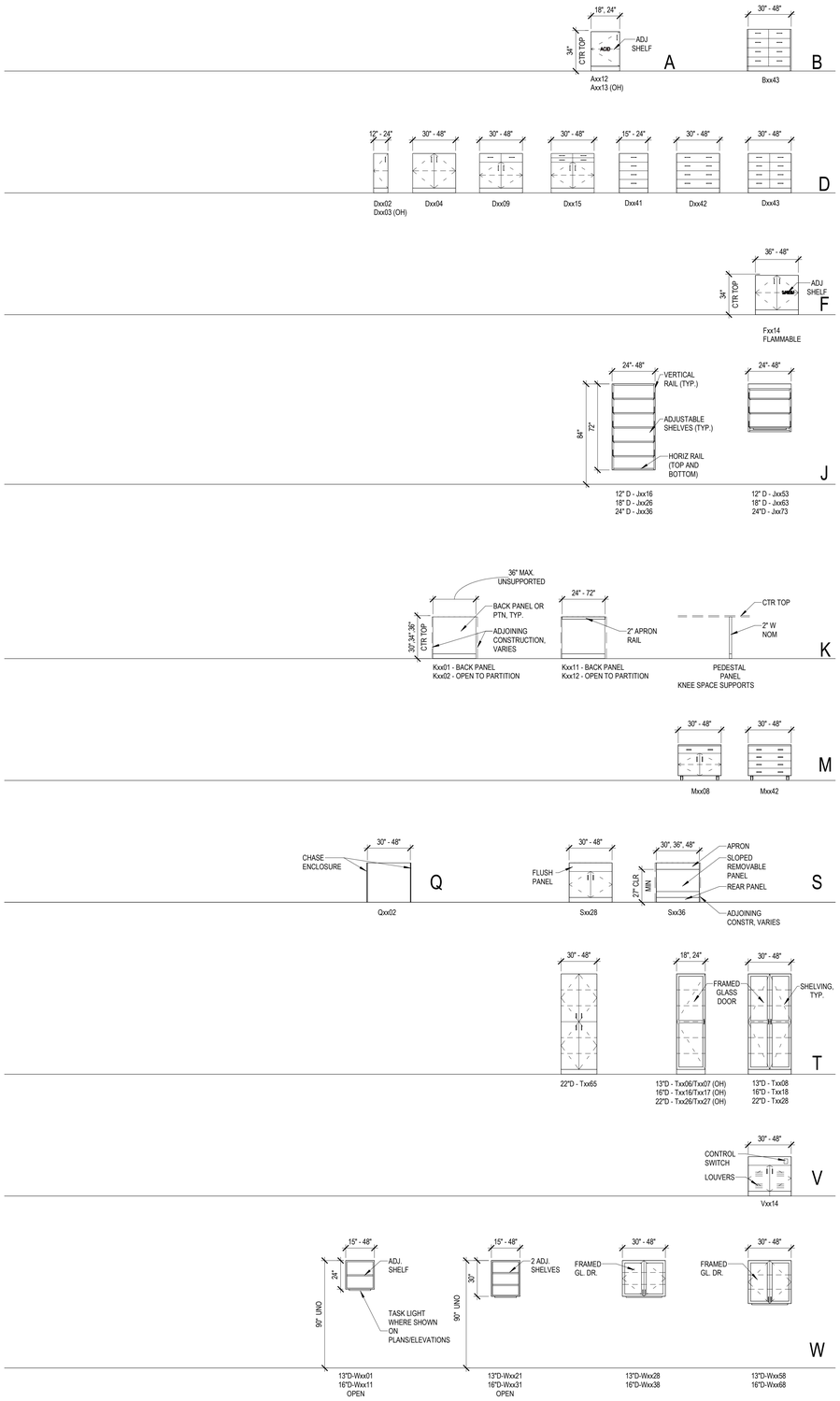
CARLOS PEREZ-RUBIO
Reg. No. 9825
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: Project Number

SHEET NAME

LABORATORY EQUIPMENT MATRIX

SHEET NO. QL020



CASEWORK LEGEND

CASEWORK TYPE _____ B 36 01

WIDTH INCHES _____

DRAWER/DOOR CONFIGURATION _____

CASEWORK TYPES

TAG	DESCRIPTION	TYPICAL DETAILS
A	CORROSIVES STORAGE CABINET (ACIDS, BASES)	7 / QL901
B	STANDING HEIGHT BASE CABINET - 36"	1 / QL901
C	ISLAND CORE	AS NOTED
D	ACCESSIBLE HEIGHT BASE CABINET - 34"	1 / QL901
E	SUSPENDED CABINET	AS NOTED
F	FLAMMABLE / HAZARDOUS STORAGE CABINET	- / ---
H	HOOD CABINET	- / ---
J	ADJUSTABLE SHELVING SYSTEMS	6 / QL901
K	KNEE SPACES	4 / QL901
L	SITTING HEIGHT BASE CABINET - 30"	- / ---
M	MOBILE CABINETS	9 / QL901
Q	EQUIPMENT SPACE	5 / QL901
S	SINK BASE CABINET	3 / QL901
T	TALL CABINET	2 / QL901
W	WALL CABINET	1 / QL901
V	VACUUM PUMP CABINET	8 / QL901
Z	SPECIALITY CABINET	AS NOTED
LT	LAB TABLE	AS NOTED

CASEWORK GENERAL NOTES

A. NOT ALL CASEWORK TYPES ARE USED. REFER TO LABORATORY DRAWINGS.
B. LAB CASEWORK SHALL BE MODULAR, IN 3" INCREMENTS FOR UNITS UP TO 30" WIDE; 6" INCREMENTS FOR UNITS 30" TO 48" WIDE.
C. LAB CASEWORK BELOW FUME HOODS SHALL BE METAL LAB CASEWORK, UNO.
D. OVERALL COUNTERTOP LENGTH IS DETERMINED BY WIDTH OF CABINETS, FILLERS, OVERHANGS, AND/OR DIMENSIONS INDICATED. OVERALL DIMENSIONS SHALL GOVERN REGARDLESS OF MANUFACTURER'S STANDARD DIMENSIONS.
E. COUNTERTOPS SHALL OVERHANG BASE CABINETS 1" NOMINAL AT FRONT AND AT EXPOSED ENDS OF CABINETS, UNO. FRONT OVERHANG IS TO FACE OF CABINET DOOR REGARDLESS OF CABINET STYLE. WHEN OVERALL DIMENSIONS ARE INDICATED, THE OVERHANG IS INCLUDED.
F. AT WALL-TO-WALL CONDITIONS WITH OPEN KNEE-SPACE DIMENSION (K-##), DIMENSION SHALL BE DETERMINED IN THE FIELD. WHERE MORE THAN ONE OPEN KNEE-SPACE DIMENSION OCCURS, THE SPACE AVAILABLE SHALL BE EVENLY DISTRIBUTED.
G. PROVIDE FILLERS TO CLOSE SPACE BETWEEN CABINETS, FUME HOODS, AND ADJOINING CONSTRUCTION. AT WALL-TO-WALL CONDITIONS, VERIFY FILLER SPACE IN FIELD; SPACE SHALL BE EVENLY DISTRIBUTED. PROVIDE NOMINAL 3" WIDE FILLER AT PERPENDICULAR WALL CONDITIONS, UNO. PROVIDE 1" WALL FILLER BETWEEN TALL CABINETS AND THE ADJOINING BASE/UPPER/WALL CABINET.
H. COUNTERTOP HEIGHT IS NOMINAL, BASED ON LAB CASEWORK MANUFACTURER'S CABINET MODULE HEIGHT AND COUNTERTOP MATERIAL (WITHIN 3/4" OF REFERENCED HEIGHT) WHERE 34" HEIGHT IS INDICATED, COUNTERTOP HEIGHT SHALL NOT EXCEED 34" AFF. AT KNEE-SPACES WITH APRONS, CLEAR HEIGHT SHALL NOT BE LESS THAN 27".
I. MAINTAIN OVERALL NOMINAL HEIGHT OF COUNTERTOPS. BEGIN CASEWORK INSTALLATION AT HIGH POINT OF FLOOR AT EACH BENCH WITH CABINET LEVELERS SCREWED IN AS FAR AS POSSIBLE.
J. COUNTERTOP DEPTH AT WALL CONDITIONS SHALL BE 30" INCLUDING OVERHANG, UNO. COUNTERTOP DEPTH AT ISLAND/PENINSULA CONDITIONS SHALL BE 60", INCLUDING OVERHANGS, UNO.
K. FINISH EXPOSED-TO-VIEW COUNTERTOP EDGES, BACKS AND ENDS OF CURBS/SPLASHES.
L. PROVIDE SEALANT AT JOINT BETWEEN BUILDING CONSTRUCTION, AND COUNTERTOPS/CURBS/SPLASHES.
M. CASEWORK TYPE-A, CORROSIVES CABINETS (ACIDS AND BASES): [METAL LAB CASEWORK, UNO.] ACID STORAGE TYPICAL, UNO. REFER TO DRAWING NOTES FOR STORAGE CONTENTS OTHER THAN ACIDS, AND FOR DEDICATED STORAGE.
N. CASEWORK TYPE-F, FLAMMABLE/HAZARDOUS MATERIAL CABINETS: METAL LAB CASEWORK, UNO. REFER TO DRAWING NOTES FOR STORAGE CONTENTS OTHER THAN FLAMMABLE LIQUIDS, AND FOR DEDICATED STORAGE.
O. CASEWORK TYPE-H, HOOD CABINETS; METAL LAB CASEWORK, UNO.
P. CASEWORK TYPE-J, ADJUSTABLE SHELVING SYSTEM: ADJUSTABLE SHELVES FOR WALL RAIL AND BENCHTOP UPRIGHT SHELVING UNITS SHALL BE METAL SHELVES AND SHELF EDGE RETAINING RODS, UNO.
Q. CASEWORK TYPE-M, MOBILE CABINETS; PROVIDE MOBILE CABINETS WITH CASTERS AND 1" THICK EPOXY TOP, UNO.
R. CASEWORK TYPE-Q, EQUIPMENT SPACE: WIDTH INDICATED IS NOMINAL, VERIFY REQUIRED WIDTH WITH EQUIPMENT MANUFACTURER. WHERE EQUIPMENT HEIGHT RESULTS IN CLEAR SPACE BETWEEN COUNTERTOP AND TOP OF EQUIPMENT GREATER THAN 3/4", PROVIDE A FILLER/APRON TO MATCH ADJOINING CASEWORK. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR UTILITY SERVICES.
S. CASEWORK TYPE-T, TALL CABINETS; CASEWORK TYPE ELEVATIONS ILLUSTRATE FRAMED GLASS DOORS WITH HORIZONTAL MULLION. DOORS WITHOUT HORIZONTAL MULLION ARE ACCEPTABLE.

HERA laboratory planners

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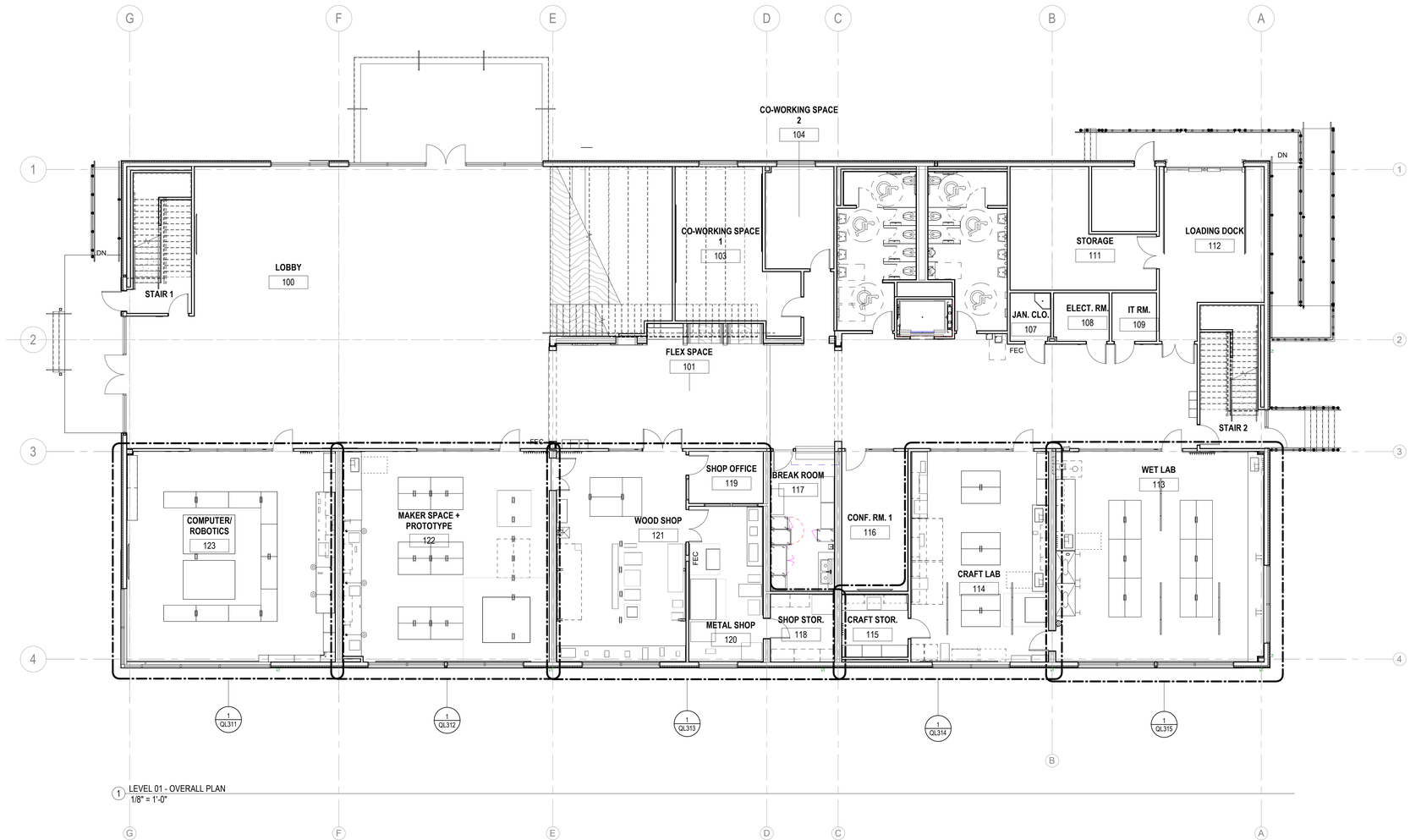
CARLOS PEREZ-RUBIO Reg. No. 9925 STATE OF LOUISIANA REGISTERED ARCHITECT

WDG Project No: Project Number

SHEET NAME

LAB CASEWORK TYPES, LEGENDS AND NOTES

SHEET NO. QL030



1 LEVEL 01 - OVERALL PLAN
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: Project Number

SHEET NAME
LEVEL 01 - OVERALL PLAN

SHEET NO. QL201

1 LEVEL 02 - OVERALL PLAN
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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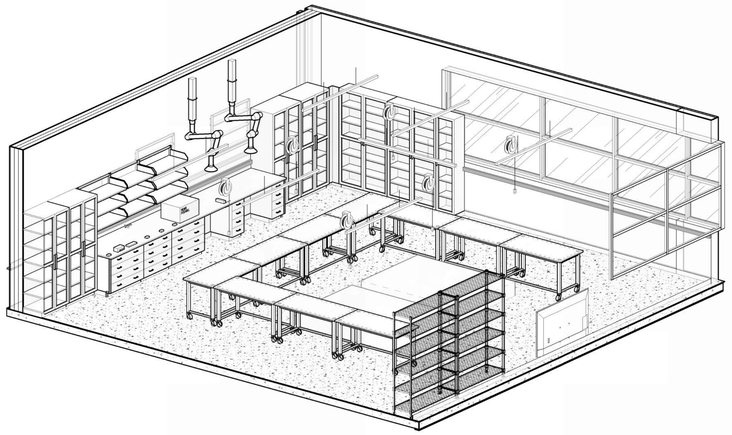
WDG Project No: Project Number

SHEET NAME

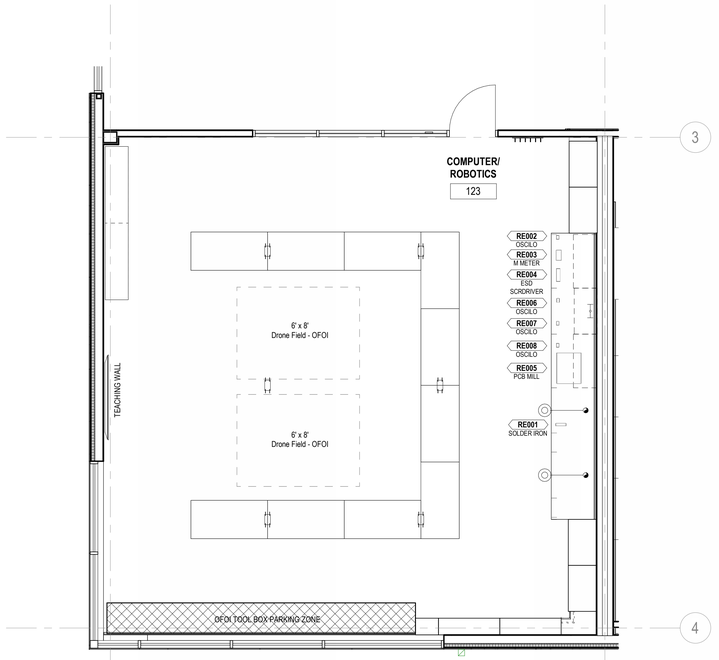
LEVEL 02 - OVERALL PLAN

SHEET NO. QL202

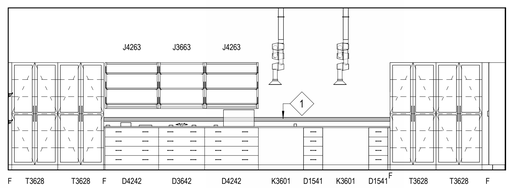
LABORATORY EQUIPMENT MATRIX QL311	
EQUIPMENT INFORMATION	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION
MP014	LASER CUTTER
RE001	SOLDERING IRONS
RE002	OSCILOSCOPE AND FUNCTION GENERATOR
RE003	MULTIMETER
RE004	8 PC ESD SAFE SCREWDRIVER SET IN POUCH
RE005	PCB MILL
RE006	OSCILOSCOPE AND FUNCTION GENERATOR
RE007	OSCILOSCOPE AND FUNCTION GENERATOR
RE008	OSCILOSCOPE AND FUNCTION GENERATOR



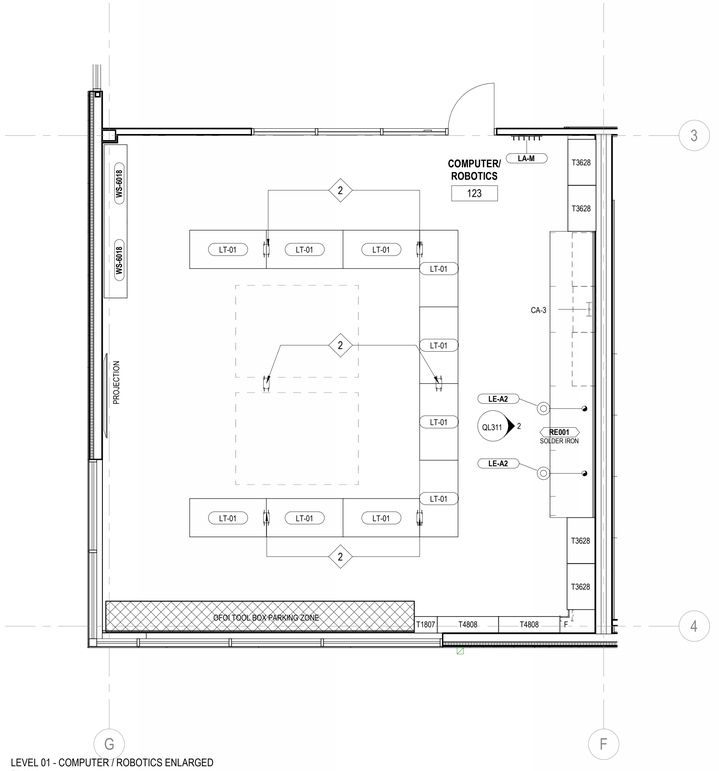
4 COMPUTER / ROBOTICS AXON



3 LEVEL 01 - COMPUTER / ROBOTICS EQUIPMENT PLAN
1/4" = 1'-0"



2 COMPUTER / ROBOTICS - EAST
1/4" = 1'-0"



1 LEVEL 01 - COMPUTER / ROBOTICS ENLARGED PLAN
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

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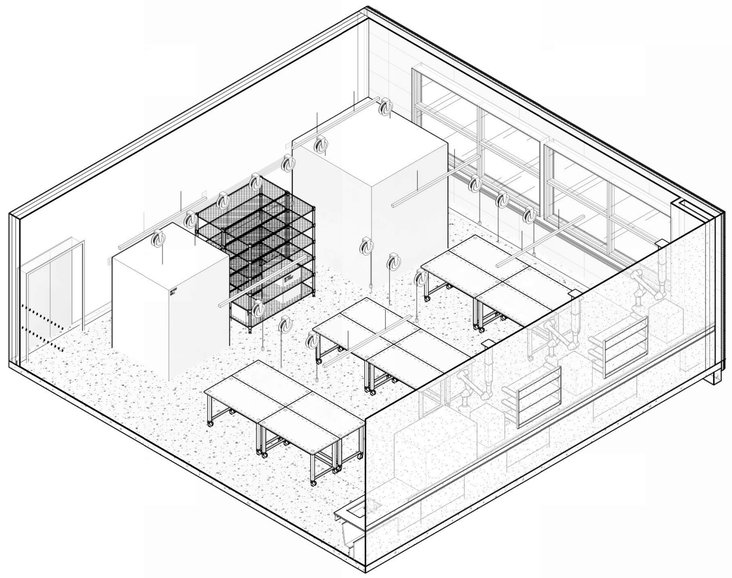
STATE OF LOUISIANA
REGISTERED ARCHITECT
01/19/26

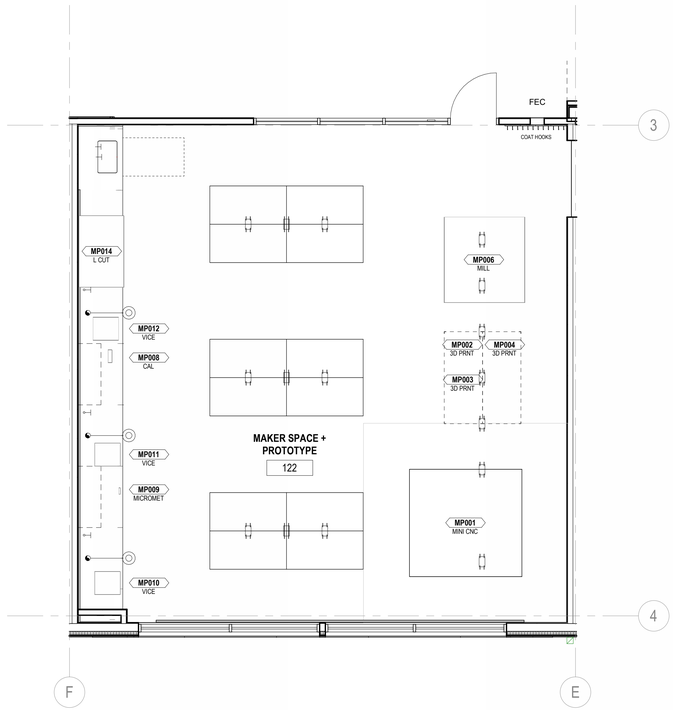
WDG Project No: Project Number

SHEET NAME
LEVEL 01 - COMPUTER / ROBOTICS ENLARGED PLAN

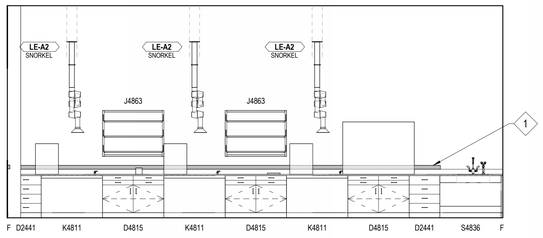
SHEET NO. QL311



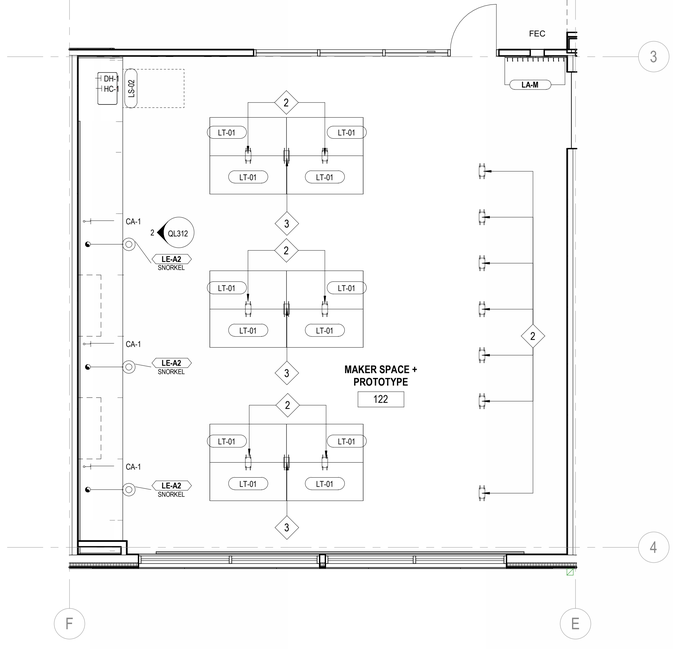
4 MAKERSPACE / PROTOTYPE AXON



3 LEVEL 01 - MAKER SPACE / PROTOTYPE EQUIPMENT PLAN
1/4" = 1'-0"



2 MAKERSPACE / PROTOTYPE - WEST
1/4" = 1'-0"



1 LEVEL 01 - MAKER SPACE / PROTOTYPE
ENLARGED PLAN
1/4" = 1'-0"

LABORATORY EQUIPMENT MATRIX QL312

EQUIPMENT INFORMATION	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION
MP001	MINI CNC
MP002	3D PRINTER
MP003	3D PRINTER
MP004	3D PRINTER
MP006	MILL
MP008	DIGITAL CALIPER
MP009	MICROMETER
MP010	VICE
MP011	VICE
MP012	VICE
MP014	LASER CUTTER

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS, LA 70127

PERMIT SET

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REVISIONS

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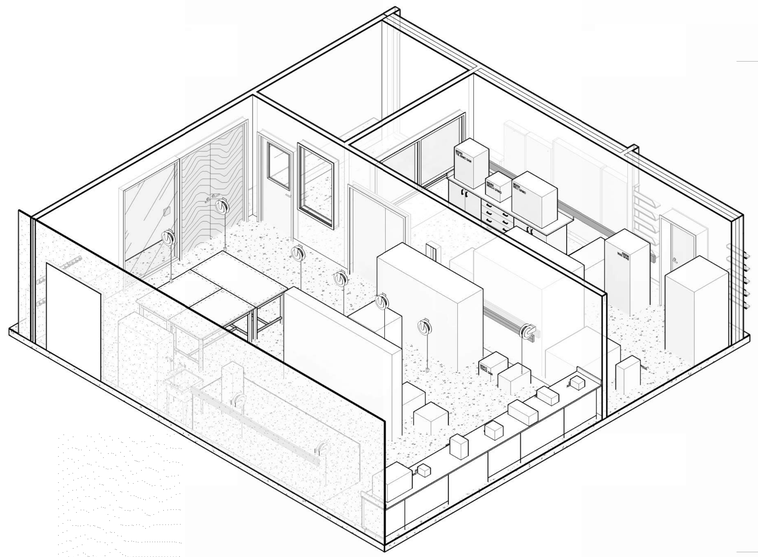
WDG Project No: Project Number

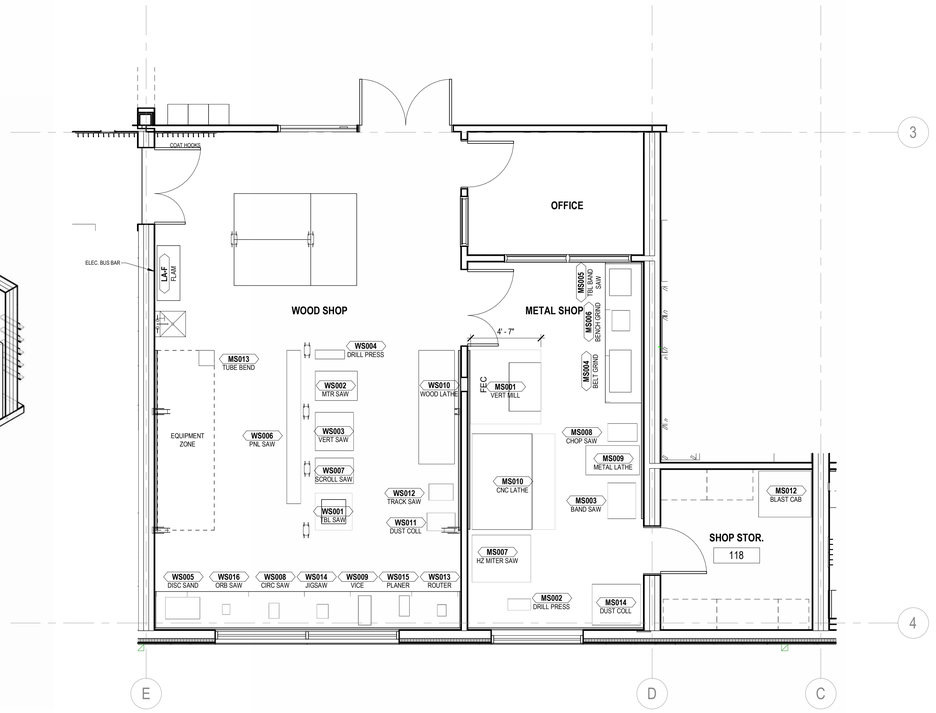
SHEET NAME

LEVEL 01 - MAKER SPACE / PROTOTYPE ENLARGED PLAN

SHEET NO. QL312



5 WOODWORKING / METAL SHOP AXON

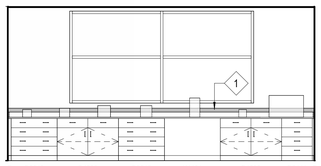


4 LEVEL 01 - WOODWORKING / METAL SHOP EQUIPMENT PLAN
1/4" = 1'-0"

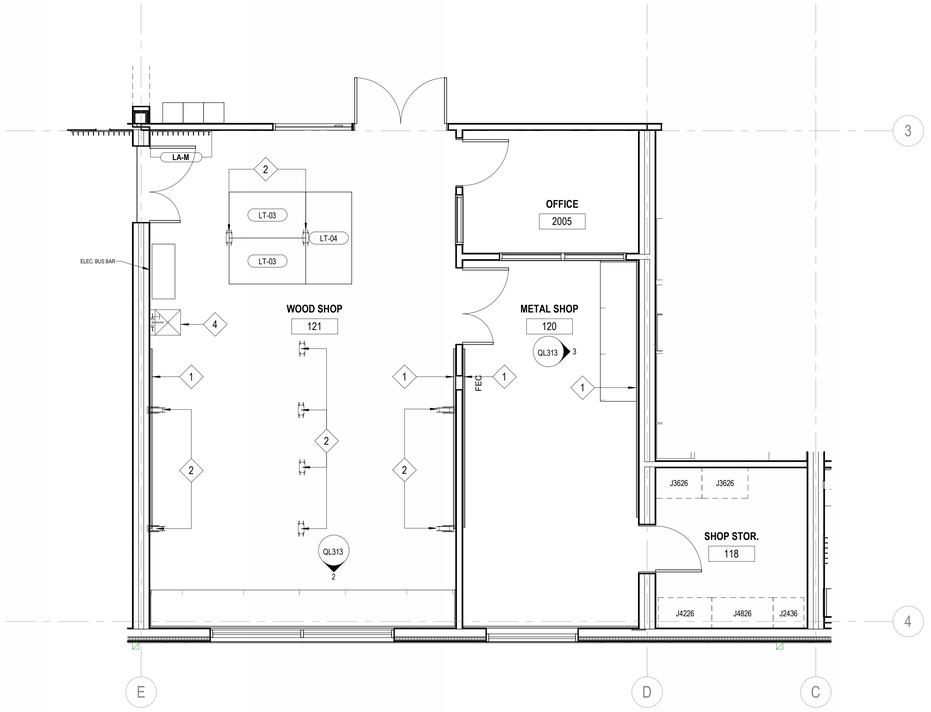
LABORATORY EQUIPMENT MATRIX QL313

EQUIPMENT INFORMATION	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION
MP001	MINI CNC
MP006	MILL
MS001	VERTICAL MILL DRILL W/ STAND
MS002	DRILL PRESS
MS003	BAND SAW
MS004	BELT AND DISC GRINDER
MS005	TABLE TOP BAND SAW
MS006	BENCH GRINDER
MS007	HORIZONTAL MITERING SAW
MS008	CHOP SAW
MS009	METAL LATHE COMBO MILL
MS010	CNC LATHE
MS012	ABRASIVE BLAST CABINET
MS013	MANUAL TUBE BENDER
MS014	DUST COLLECTOR
WS001	TABLE SAW
WS002	SLIDING COMPOUND MITER SAW
WS003	VERTICAL BAND SAW
WS004	DRILL PRESS
WS005	DISC SANDER
WS006	PANEL SAW
WS007	SCROLL SAW
WS008	CIRCULAR SAW
WS009	VICE
WS010	POWERMATIC WOOD LATHE
WS011	DUST COLLECTOR
WS012	TRACK SAW
WS013	ROUTER
WS014	JIGSAW
WS015	PLANER
WS016	RANDOM ORBITAL SAW

3 METAL SHOP - EAST ELEVATION
1/4" = 1'-0"



2 WOODWORKING / METAL SHOP - SOUTH
1/4" = 1'-0"



1 LEVEL 01 - WOODWORKING / METAL SHOP ENLARGED PLAN
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

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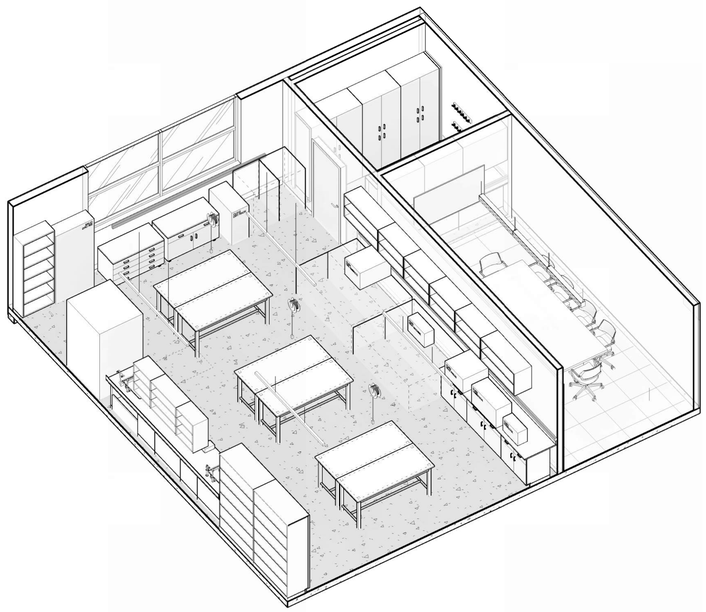
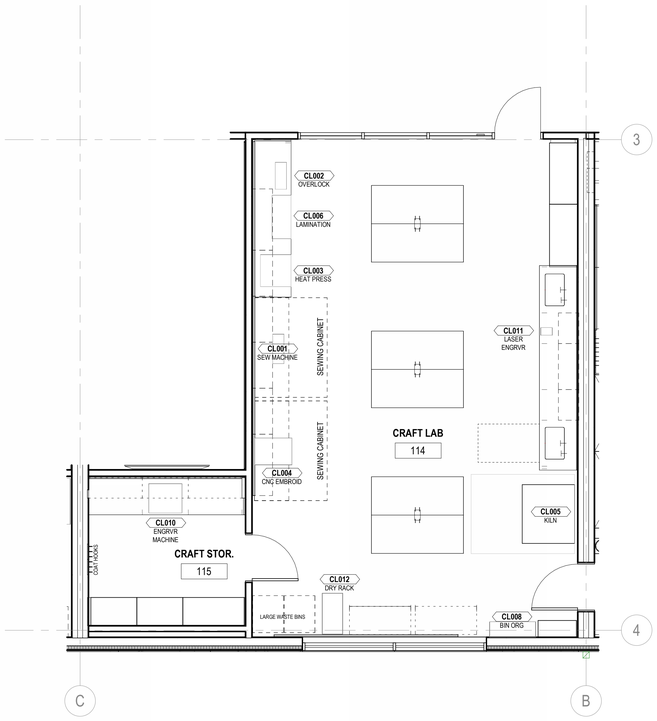
SHEET NAME

LEVEL 01 - WOODWORKING / METAL SHOP ENLARGED PLAN

SHEET NO. QL313



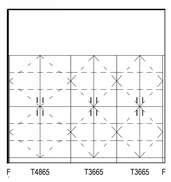
8 CRAFT LAB AXON



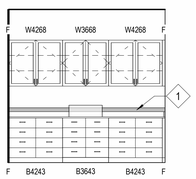
7 LEVEL 01 - CRAFT LAB EQUIPMENT PLAN
1/4" = 1'-0"

LABORATORY EQUIPMENT MATRIX QL314

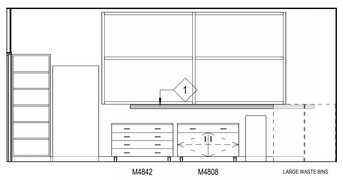
EQUIPMENT INFORMATION	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION
CL001	SEWING MACHINE
CL002	OVERLOCK/COVERSTICH COMBO
CL003	HEAT PRESS
CL004	CNC EMBROIDERY MACHINE
CL005	FRONT LOADING KILN
CL006	LAMINATION
CL008	CLOSED BIN ORGANIZER TALL CASE
CL010	ENGRAVING MACHINE
CL011	PORTABLE LASER ENGRAVER
CL012	PORTABLE DRYING RACK



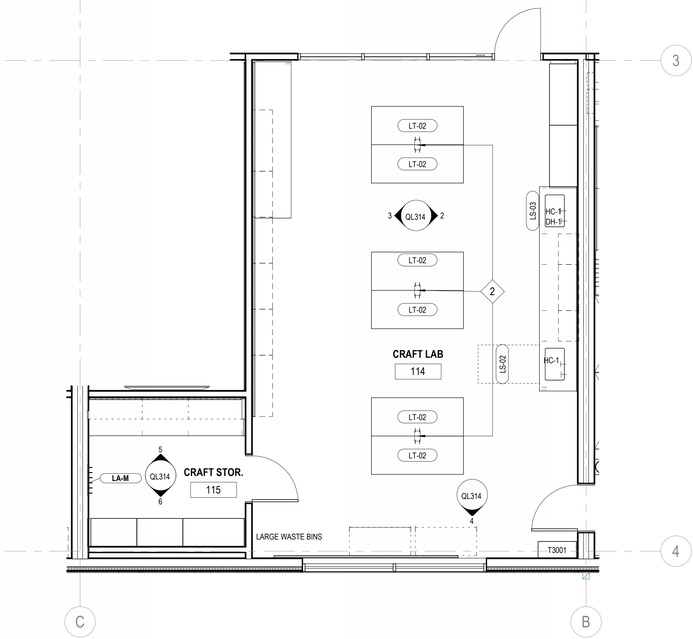
6 CRAFT STOR. - SOUTH
1/4" = 1'-0"



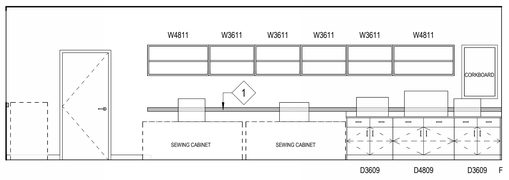
5 CRAFT STOR. - NORTH
1/4" = 1'-0"



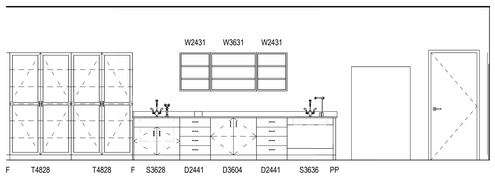
4 CRAFT LAB - SOUTH
1/4" = 1'-0"



1 LEVEL 01 - CRAFT LAB ENLARGED PLAN
1/4" = 1'-0"



3 CRAFT LAB - WEST
1/4" = 1'-0"



2 CRAFT LAB - EAST
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

WILLARD DESIGN GROUP
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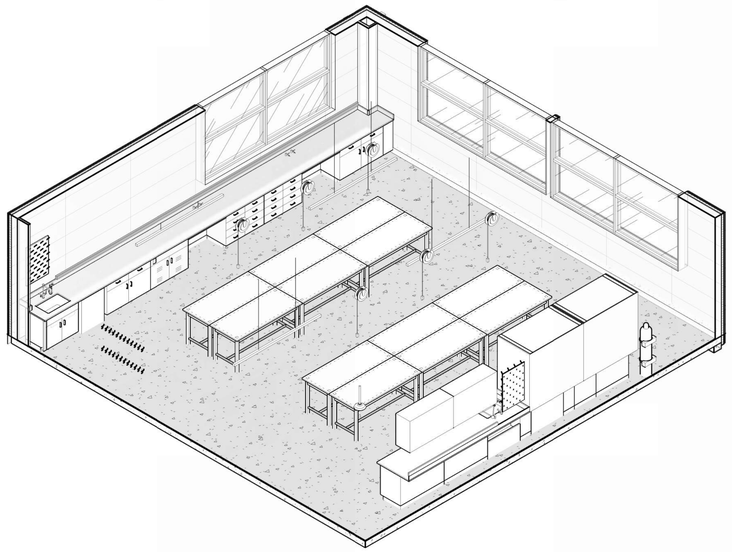
WDG Project No: Project Number

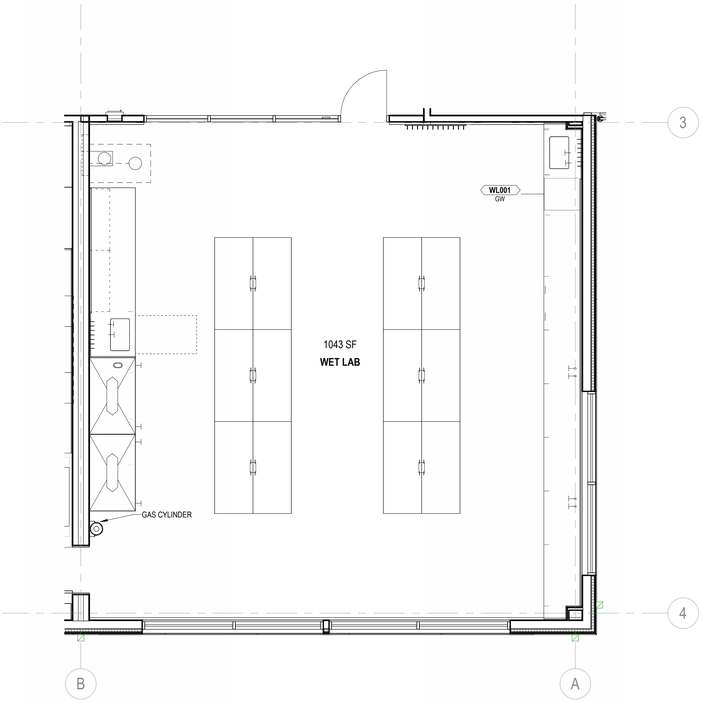
SHEET NAME

LEVEL 01 - CRAFT LAB ENLARGED PLAN

SHEET NO. QL314



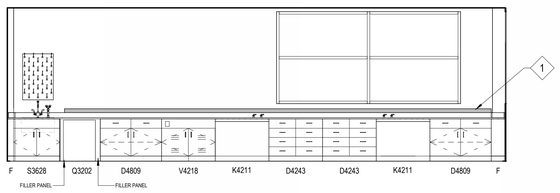
5 WET LAB



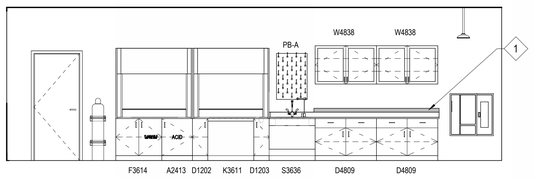
4 LEVEL 01 - WET LAB EQUIPMENT PLAN
1/4" = 1'-0"

LABORATORY EQUIPMENT MATRIX QL315

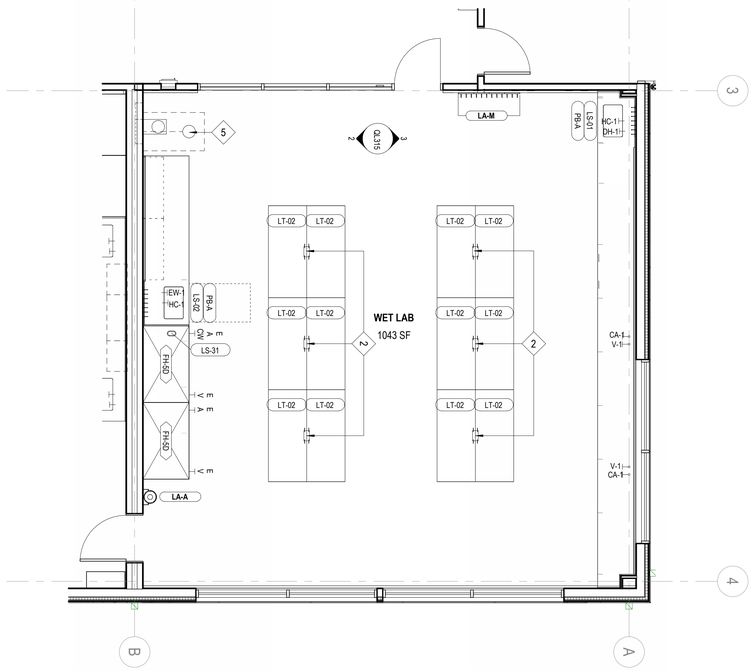
EQUIPMENT INFORMATION	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION
CL005	FRONT LOADING KILN
CL008	CLOSED BIN ORGANIZER TALL CASE
WL001	GLASSWARE WASHER



3 WET LAB - EAST
1/4" = 1'-0"



2 WET LAB -WEST
1/4" = 1'-0"



1 LEVEL 01 - WET LAB ENLARGED PLAN
1/4" = 1' - 0"

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

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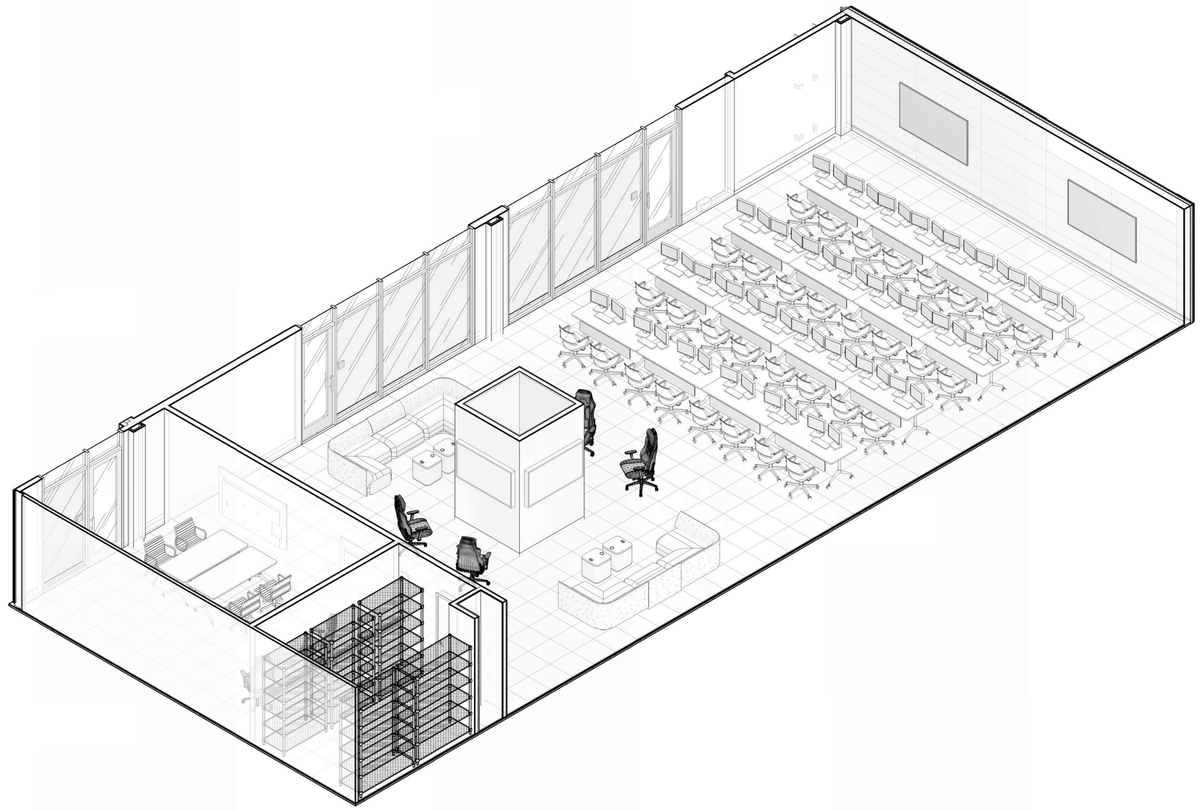
REGISTERED ARCHITECT
01/19/26

WDG Project No: Project Number

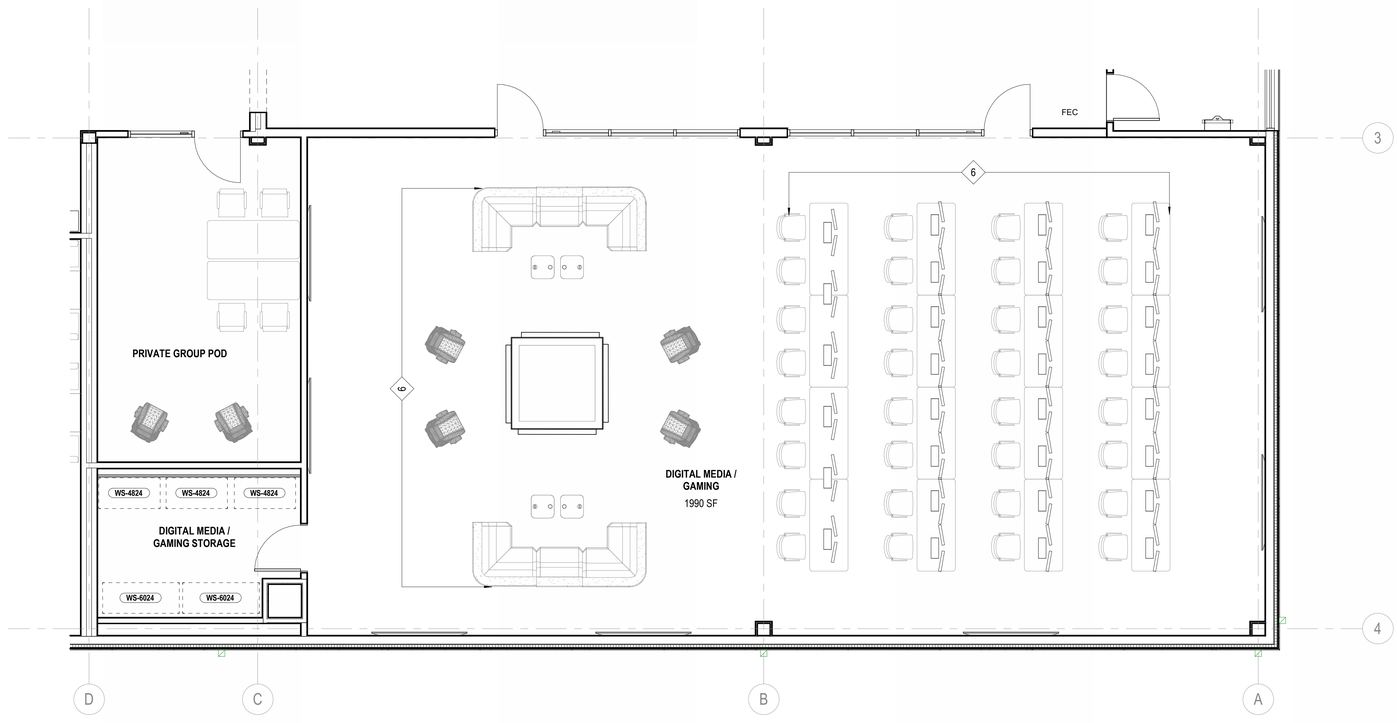
SHEET NAME

LEVEL 01 - WET LAB ENLARGED PLAN

SHEET NO. QL315



2 DIGITAL MEDIA AXONOMETRIC



1 LEVEL 02 - DIGITAL MEDIA ENLARGED PLAN
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

HERA laboratory planners

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

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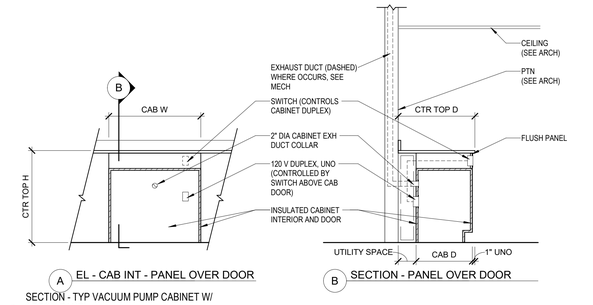
Reg. No. 9925
STATE OF LOUISIANA
REGISTERED ARCHITECT

WDG Project No: Project Number

SHEET NAME
LEVEL 02 - DIGITAL MEDIA ENLARGED PLAN

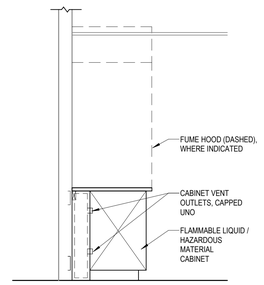
SHEET NO. QL316



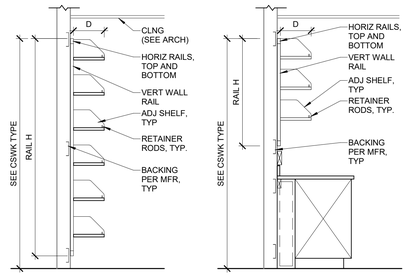
A EL - CAB INT - PANEL OVER DOOR

B SECTION - PANEL OVER DOOR

8 SECTION - TYP VACUUM PUMP CABINET W/ APRON PANEL
1/2" = 1'-0"



7 SECTION - TYP FLAM / HAZ CABINETS
1/2" = 1'-0"

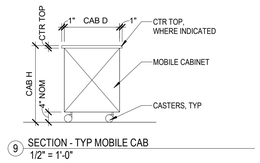


A FULL HEIGHT

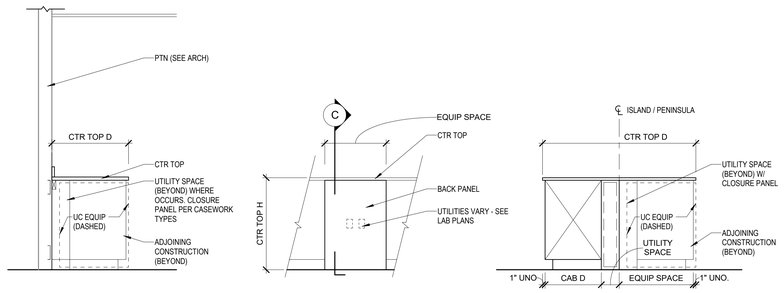
B ABOVE CTR

C ISOMETRIC

6 SECTION - ADJUSTABLE WALL RAIL SHELVING SYSTEM
1/2" = 1'-0"



9 SECTION - TYP MOBILE CAB
1/2" = 1'-0"

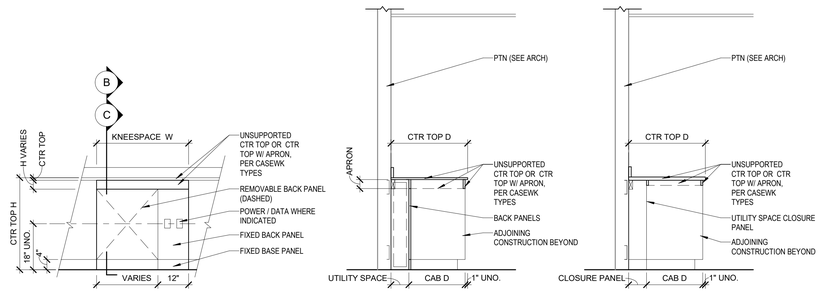


A SECTION - PERIMETER

B EL - ISLAND / PENINSULA

C SECTION - ISLAND / PENINSULA

5 SECTION - TYP EQUIPMENT SPACE, UNSUPPORTED
1/2" = 1'-0"

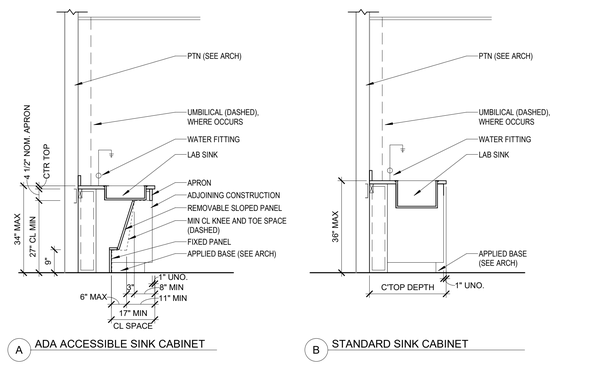


A EL - KNEE SPACE W/ BACK PANEL

B SECTION - BACK PANEL

C SECTION - OPEN TO PTN

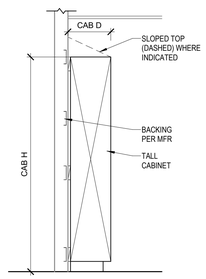
4 SECTION - KNEE SPACE, SUPPORTED
1/2" = 1'-0"



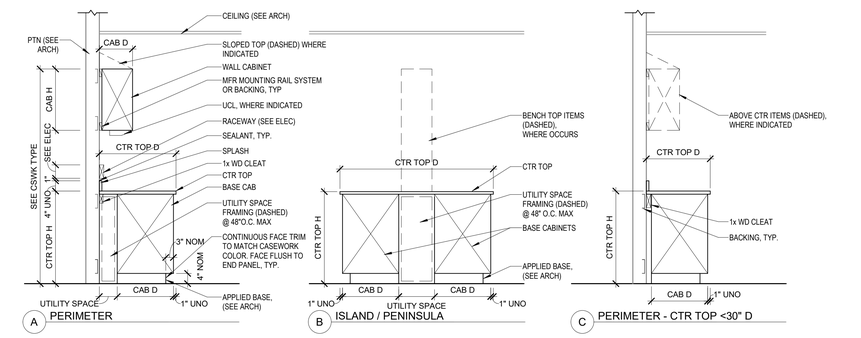
A ADA ACCESSIBLE SINK CABINET

B STANDARD SINK CABINET

3 SECTION - SINK CABINET
1/2" = 1'-0"



2 SECTION - TYP TALL CABINET
1/2" = 1'-0"



A PERIMETER

B ISLAND / PENINSULA

C PERIMETER - CTR TOP <30" D

1 SECTION - TYP BASE / WALL CABINETS
1/2" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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WDG Project No: Project Number

SHEET NAME

LABORATORY DETAILS - CASEWORK SECTIONS

SHEET NO. QL901

1 GENERAL NOTES
S001

1. EXISTING UTILITIES:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION OR FABRICATION. ANY CONFLICTS OR POTENTIAL CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

2. DRILLING HOLES FOR ANCHORS AND CORING HOLES IN EXISTING CONCRETE:
A. PRIOR TO DRILLING OR CORING HOLES, THE CONTRACTOR SHALL LOCATE EXISTING REINFORCING STEEL, POST-TENSIONING, CONDUIT, PIPING, ETC. IN THE AREA WHERE NEW HOLES ARE TO BE INSTALLED THROUGH NON-DESTRUCTIVE TESTING SUCH AS WITH AN X-RAY, RADAR, OR WITH OTHER NON-DESTRUCTIVE DEVICES.
B. MARK THE LOCATION & EXTENTS OF ALL REINFORCING STEEL, POST-TENSIONING, CONDUIT, PIPING, AND OTHER EXISTING INTERFERENCES ON THE SURFACE OF THE SLAB.
C. IF NEW HOLE LOCATIONS CONFLICT WITH EXISTING EMBEDDED ELEMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE INSTALLING THE NEW HOLES.
D. VERIFY NO CONFLICTS EXIST AT NEW HOLE LOCATIONS BY SMALL DRILLED PILOT HOLES. IF NO CONFLICTS EXIST, COMPLETE THE INSTALLATION. IN THE CASE OF STEEL TO BE FASTENED TO THE CONCRETE WITH MULTIPLE ANCHORS, FABRICATE, FROM A FIELD TEMPLATE, THE STEEL TO BE FASTENED TO THE CONCRETE BY THE ANCHORS AND COMPLETE THE INSTALLATION.
E. WHEN INSTALLING NEW HOLES, CARE SHALL BE EXERCISED SO AS NOT TO NICK OR CUT EXISTING EMBEDDED ELEMENTS.

3. DAMAGE TO EXISTING CONSTRUCTION:
ALL WORK SHALL BE DONE IN A MANNER WHICH WILL NOT DAMAGE ADJACENT EXISTING CONSTRUCTION WHICH IS TO REMAIN.

4. VAPOR BARRIER:
A. UNLESS OTHERWISE STATED IN SPECIFICATIONS, PROVIDE OPAQUE, 15 MIL POLYETHYLENE VAPOR BARRIER CONFORMING TO ASTM E1745 ON TOP OF FILL UNDER ALL INTERIOR SLABS AND BEAMS. OMIT ON TOP OF PILES.
B. FOLLOW MANUFACTURER'S RECOMMENDATIONS AND USE MANUFACTURER'S RECOMMENDED ADHESIVE AND PRESSURE-SENSITIVE TAPE FOR SEALING HOLES AND JOINTS IN VAPOR BARRIER.
C. SHALL BE NEATLY PLACED, FOLLOW THE PROFILE OF THE BOTTOM OF THE SLAB AND BEAMS, AND BE IN INTIMATE CONTACT WITH THE FILL.

5. PILES (LARGER TIMBER PILES):
ASTM D25 TREATED TIMBER PILES
A. TIP PENETRATION BELOW FIRST FLOOR ELEVATION: 40 ft.
B. MINIMUM TIP DIAMETER: 7"
C. MINIMUM DIAMETER 3'-0 FROM BUTT: 12"
D. TREATMENT: C.C.A.; .80 PCF RETENTION PER AWPA SPECIFICATIONS.
E. CUT-OFF TREATMENT: BRUSH TREAT TOP OF PILE WITH COPPER NAPTHENATE CONFORMING TO AWPA SPECIFICATION M4.
F. FOLLOWING: PILES MAY BE FOLLOWED. ALLOW 1'-0" FOR CUT-OFF.
G. PREDRILL: 8 ft., 8"ø FOUR BLADE FISHTAIL BIT.
H. HAMMER: NO. 1 VULCAN (15,000 FT.-LBS)
I. EXPLORATORY PILES: 7 (6 SHOWN, 1 T.B.D.)
J. LOAD TEST: 1
K. DESIGN LOAD: 25 TONS COMPRESSION; 11 TONS TENSION

6. CONCRETE:
A. ACI 301-10 SPECIFICATIONS
B. NORMAL WEIGHT CONCRETE: 150 PCF
C. LIGHTWEIGHT CONCRETE: 115 PCF
D. COMPRESSIVE STRENGTH AT 28 DAYS: 4,000 PSI

7. REINFORCING STEEL:
A. REINFORCING BARS: ASTM A615, GRADE 60 OR 75
B. WELDABLE REINFORCING BARS: ASTM A706, GRADE 60
C. WELDED WIRE MESH: ASTM A1064
D. CONTRACTOR SHALL INCLUDE IN THE COST OF HIS BID, AN ADDITIONAL 2 TONS OF REINFORCING STEEL. THIS COST SHALL INCLUDE FABRICATION, TRANSPORTATION, INSTALLATION, ETC. OF ADDITIONAL REINFORCING STEEL. COST OF ADDITIONAL REINFORCING STEEL NOT UTILIZED DURING CONSTRUCTION WILL BE CREDITED BACK TO THE OWNER VIA CHANGE ORDER AT THE UNIT PRICE PROVIDED ON THE BID FORM.

8. REINFORCING CLEARANCES REQUIRED FOR STRUCTURALLY SUPPORTED CONCRETE ARE AS FOLLOWS:
ACI 117 STANDARDS. UNLESS SPECIFICALLY NOTED OR SHOWN ON THE DRAWINGS, REINFORCING CLEARANCES SHALL BE AS FOLLOWS:
A. SLABS: 3/4" CLEAR TOP & BOTTOM FORMED,
1" CLEAR BOTTOM, 3/4" CLEAR TOP ON GRADE.
B. BEAMS: 11/2" CLEAR BOTTOM FORMED, 3" CLEAR BOTTOM CAST ON EARTH, 11/2" CLEAR SIDES AND TOP FORMED, 3" CLEAR SIDES EARTH FORMED, 1-1/2" CLEAR TOP.
C. COLUMNS: 1-1/2" CLEAR, TYPICAL.
D. WALLS: 1-1/2" CLEAR, TYPICAL.

9. REINFORCING DETAILS FOR STRUCTURALLY SUPPORTED CONCRETE:
ACI 315 STANDARDS. UNLESS SPECIFICALLY NOTED OR SHOWN ON THE DRAWINGS, BAR LAPS AND CONFIGURATIONS SHALL BE AS FOLLOWS:
A. TOP BARS: HOOK AT NON-CONTINUOUS ENDS. LAP 30 DIAS. AT MID-SPAN. FOR CONTINUOUS REINFORCING NOTED ON THE CONSTRUCTION DOCUMENTS AS FULLY CONT., SEE NOTE "F".
B. BOTTOM BARS: LAP 6" AT CENTER OF SUPPORT.
C. TEMPERATURE BARS IN SLAB AND INTERMEDIATE HORIZONTAL BARS IN WALLS AND BEAMS: TENSION LAP SPLICES, SEE NOTE "F".
D. SLAB TOP REINFORCING SUPPORT BARS: SLAB TOP REINFORCING BARS LESS THAN 6 FEET IN LENGTH SHALL HAVE 2-#4 CONT. SUPPORT BARS AND SLAB TOP REINFORCING BARS GREATER THAN 6 FEET IN LENGTH SHALL HAVE #4 SUPPORT BARS EQUALLY SPACED AT NO MORE THAN 4'-0" O.C.
E. CORNER BARS: PROVIDE CORNER BARS AT EACH OUTSIDE CORNER FOR EACH HORIZONTAL BAR IN WALLS AND BEAMS, CORNER BARS SHALL LAP WITH HORIZONTAL BARS. PROVIDE "U" BARS AT WALL ENDS. LAP #3 TO #6 BARS 30" EACH WAY AND LAP #7 TO #11 BARS 48" EACH WAY. HOOK INSIDE BARS IN WALLS AT ENDS.
F. LAP SPLICE TABLE FOR FULLY CONTINUOUS REINFORCING:

LAP SPLICES (INCHES)

	LOCATION	BAR SIZE #3	#4	#5	#6	#7	#8	#9	#10	#11
SLABS	TOP	15	24	36	48	78	96	117	140	165
SLABS	OTHER	12	19	28	37	60	74	90	108	127
OTHER	TOP	24	32	40	48	70	80	91	102	113
OTHER	OTHER	19	25	31	37	54	62	70	79	87

NOTE:
REQUIRED TENSION LAP SPLICE LENGTHS FOR f'c=4,000 PSI. FOR HIGHER OR LOWER VALUES OF f'c. LAP LENGTHS MAY BE ADJUSTED ACCORDINGLY. SUBMIT PROPOSED LENGTHS FOR APPROVAL.

10. CONDUITS AND PIPES EMBEDDED IN CONCRETE:
A. CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE WITH APPROVAL OF THE ENGINEER, PROVIDED THAT REGULATIONS ARE FOLLOWED AS OUTLINED IN THE APPLICABLE ACI CODES.
B. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB OR BEAM SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF CONSTRUCTION AS DETERMINED BY THE ENGINEER.
C. SINGLE CONDUITS AND PIPES OR INTERSECTING CONDUITS AND PIPES SHALL NOT OCCUPY MORE THAN AN 11/2" OF SLAB THICKNESS AND 1/3 THE OVERALL THICKNESS OF BEAMS IN WHICH THEY ARE EMBEDDED, AND THEY SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER. ANY CONDUIT OR PIPE LARGER SHALL BE LOCATED BELOW THE RESPECTIVE SLAB OR BEAM. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, A DIAGRAM DEPICTING THE HOME RUNS OF CONDUIT TO ALL PANELS, TYPICAL.
D. IT WILL NOT BE PERMITTED TO CUT, BEND, OR DISPLACE THE REINFORCING STEEL FROM ITS PROPER LOCATION IN ORDER TO INSTALL CONDUITS AND PIPES.
E. COORDINATION MUST BE MADE BY THE CONTRACTOR AT HIS EXPENSE TO FOLLOW THE ABOVE GUIDELINES.

11. STRUCTURAL STEEL:
A. A.I.S.C. SPECIFICATIONS; STEEL CONSTRUCTION MANUAL 14TH EDITION; ALL WIDE FLANGE SHAPES ASTM A992 GRADE 50, ALL MISCELLANEOUS SHAPES ASTM A36, HSS SHAPES ASTM A500 GRADE B Fy=46 ksi, STEEL PIPE ASTM A53 GRADE B Fy=35 ksi; HIGH STRENGTH BOLTS A325, 3/4"ø MIN. EXCEPT AS NOTED OTHERWISE; ANCHOR RODS AND BOLTS ASTM F1554 GRADE 36 EXCEPT AS NOTED OTHERWISE; HEADED CONCRETE ANCHOR (H.C.A.) PER A.W.S. SPECIFICATION D1.1; DEFORMED BAR ANCHOR (D.B.A.) ASTM A496; E-70 ELECTRODES.
B. ALL BEAM CONNECTIONS SHALL BE A.I.S.C. STANDARD FRAMED CONNECTIONS. SHOP CONNECTIONS SHALL BE WELDED. FIELD CONNECTIONS SHALL BE BOLTED, EXCEPT CONNECTIONS TO EXISTING CONSTRUCTION SHALL BE WELDED. CONNECTIONS NOT SCHEDULED OR DETAILED OTHERWISE TO BE DESIGNED FOR 1/2 UNIFORM LOAD BEAM CAPACITY FOR PROPER BEAM SPAN AND 2/3 UNIFORM LOAD BEAM CAPACITY FOR PROPER BEAM SPAN FOR COMPOSITE BEAMS.
C. ALL STRUCTURAL STEEL ITEMS AND RESPECTIVE ANCHORS AND FASTENERS PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123. PROVIDE VENT HOLES AS REQUIRED. TOUCH UP ALL DAMAGED COATING WITH HOT STICK GALVANIZING PER ASTM A780. SEE ARCHITECT FOR PAINTING.
D. CONTRACTOR SHALL INCLUDE IN THE COST OF HIS BID, AN ADDITIONAL 3 TONS OF STRUCTURAL STEEL. THIS COST SHALL INCLUDE FABRICATION, TRANSPORTATION, INSTALLATION, ETC. OF ADDITIONAL STRUCTURAL STEEL. COST OF ADDITIONAL STRUCTURAL STEEL NOT UTILIZED DURING CONSTRUCTION WILL BE CREDITED BACK TO THE OWNER VIA CHANGE ORDER AT THE UNIT PRICE PROVIDED ON THE BID FORM.

12. METAL FLOOR DECK (COMPOSITE):
1.5VL18 GALVANIZED STEEL COMPOSITE TYPE DECK BY VULCRAFT OR APPROVED EQUAL. CONTINUOUS OVER 3 OR MORE SPANS.
A. DECK PROPERTIES
1. DEPTH: 1.5"
2. GAGE: 18
3. MIN. SECTION MODULUS (POSITIVE): 0.311 IN^3 / PER FT.
4. MIN. SECTION MODULUS (NEGATIVE): 0.324 IN^3 / PER FT.
5. MIN. MOMENT OF INERTIA (POSITIVE): 0.272 IN^4 / PER FT.
6. MIN. MOMENT OF INERTIA (NEGATIVE): 0.295 IN^4 / PER FT.
7. DESIGN THICKNESS: 0.0474"
8. ALLOWABLE STRESS: 50 KSI
B. DECK FASTENING PATTERN
1. SUPPORT FASTENERS:
2. FASTENER PATTERN:
3. SIDELAP FASTENER:
4. SIDELAP FASTENERS PER SPAN:

13. METAL ROOF DECK:
3N18 GALVANIZED STEEL ROOF DECK BY VULCRAFT OR APPROVED EQUAL. DECK TO BE CONTINUOUS OVER 3 OR MORE SPANS.
A. DECK PROPERTIES
1. DEPTH: 3"
2. GAGE: 18
3. MIN. SECTION MODULUS (POSITIVE): 0.688 IN^3 / PER FT.
4. MIN. SECTION MODULUS (NEGATIVE): 0.749 IN^3 / PER FT.
5. MIN. MOMENT OF INERTIA (POSITIVE): 1.238 IN^4 / PER FT.
6. MIN. MOMENT OF INERTIA (NEGATIVE): 1.430 IN^4 / PER FT.
7. DESIGN THICKNESS: 0.0474"
8. ALLOWABLE STRESS: 33 KSI
B. DECK FASTENING PATTERN:
1. SUPPORT FASTENERS:
2. SUPPORT FASTENER PATTERN:
3. SIDELAP FASTENERS:

14. NOT USED:

15. MECHANICAL EQUIPMENT:
A. PRIOR TO THE DETAILING OF ANY STRUCTURAL MATERIALS INVOLVED IN THE SUPPORT OF MECHANICAL EQUIPMENT, THE CONTRACTOR SHALL FURNISH TO THE ARCHITECT ALL INFORMATION RELATIVE TO LOADS, LOAD POINTS, DIMENSIONS, ETC. OF THE ACTUAL EQUIPMENT WHICH IS TO BE FURNISHED.
B. ALL DETAILS AND MEMBER SIZES SHOWN ON THE STRUCTURAL DRAWINGS ARE TENTATIVE UNTIL SUCH TIME AS THIS INFORMATION IS REVIEWED BY THE ARCHITECT.
C. LOCATION OF SUPPORT BEAMS TO BE VERIFIED AND/OR COORDINATED BY THE GENERAL CONTRACTOR WITH FINAL MECHANICAL EQUIPMENT LOCATIONS, SIZES, AND CONNECTION POINTS.
D. CONNECTIONS OF ALL EQUIPMENT TO THE STRUCTURE PROVIDED ON THESE DRAWINGS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, THROUGH DELEGATED DESIGN BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. ALTERNATELY, PUBLISHED COMPLIANCE WITH ALL PROJECT SPECIFIC WIND AND SEISMIC LOADS BY THE EQUIPMENT MANUFACTURER WILL BE ACCEPTED.
E. ALL COST ASSOCIATED WITH CHANGES TO BASIS OF DESIGN EQUIPMENT RESULTING IN REQUIRED CHANGES TO THE STRUCTURE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
F. COORDINATION MUST BE MADE BY THE CONTRACTOR AT HIS EXPENSE TO FOLLOW THE ABOVE GUIDELINES.

16. WELDING PRECAUTIONS:
A. FIRE PREVENTION: AT ALL TIMES DURING WELDING AND TORCH CUTTING IN THE EXISTING BUILDING THE CONTRACTOR SHALL HAVE ADEQUATE FIRE FIGHTING EQUIPMENT READY FOR USE AT THE LOCATION OF THE WELDING. THE WELDING AND TORCH CUTTING PROCESS SHALL BE CLOSELY OBSERVED AND MONITORED BY THE CONTRACTOR SO AS TO PREVENT THE IGNITING OF ANY COMBUSTIBLES IN THE CONSTRUCTION AREA. OBSERVATIONS SHALL CONTINUE FOR AT LEAST 4 HOURS AFTER WELDING IN A PARTICULAR AREA HAS CEASED.
B. PROVIDE ADEQUATE VENTILATION AS TO TOTALLY EXHAUST WELDING FUMES OUT OF THE CONSTRUCTION AREA SO AS NOT TO CONTAMINATE ANY PORTION OF THE EXISTING BUILDING.

17. POST INSTALLED ANCHORS TO HARDENED CONCRETE:
A. IN THE INSTALLATION OF ANCHORS, CARE SHALL BE EXERCISED SO AS NOT TO NICK OR CUT EXISTING REINFORCING, CONDUIT, ETC. SEE GENERAL NOTE 2 FOR PROCEDURE FOR DRILLING HOLES IN EXISTING CONCRETE.
B. UNLESS NOTED OTHERWISE, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. OR APPROVED EQUAL.
1. ANCHORAGE TO CONCRETE:
a. ADHESIVE ANCHORS : HILTI HIT-HY 200 SAFE SET SYSTEM WITH HAS-E THREADED ROD.
b. REBAR DOWELING: HILTI HIT-HY 200 SAFE SET SYSTEM.
c. EXPANSION ANCHORS: HILTI KWIK BOLT-TZ2
2. ANCHORAGE TO SOLID GROUTED MASONRY: HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM
3. ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY: HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM
C. INSTALL ANCHORS AS PER THE MANUFACTURER'S INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
D. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFIS SYSTEM.
E. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURE'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
F. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALLATION OF ANCHORS SHALL BE IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE CONTRACT DRAWINGS.

18. OTHER WORK:
COORDINATE ALL OTHER WORK WITH STRUCTURAL. UNLESS DETAILED OR SPECIFIED, THE ARCHITECT IS TO APPROVE ALL OPENINGS, SLEEVES, EMBEDDED ITEMS ETC. INVOLVED IN STRUCTURAL WORK PRIOR TO THEIR BEING SET. DO NOT CUT OR DRILL HOLES IN STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT. ALL SUCH ITEMS SHALL NOT IMPAIR THE STRUCTURAL INTEGRITY OF THE MEMBER AS DETERMINED BY THE ENGINEER OF RECORD.

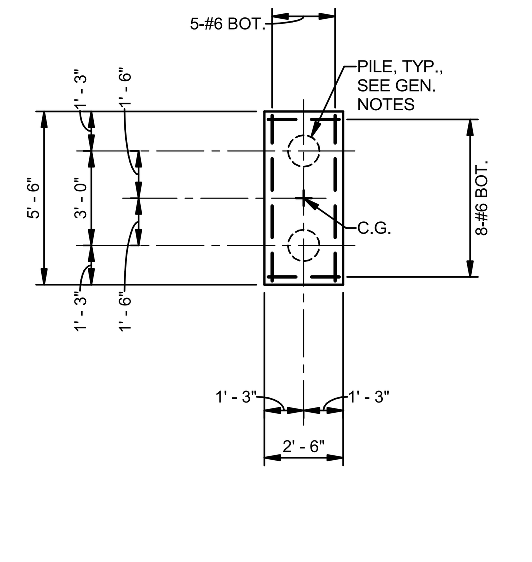
19. DESIGN LOADS AND OTHER PERTINENT DESIGN INFORMATION:
A. BUILDING CODE: INTERNATIONAL BUILDING CODE 2021 / ASCE 7-16
B. FLOOR LIVE LOAD
1. 100 PSF TYPICAL FIRST FLOOR
2. 80 PSF TYPICAL SECOND FLOOR
3. 150 PSF FIRST FLOOR - GRIDS 3 TO 4, GRIDS D TO F.
C. ROOF LIVE LOAD
1. 20 PSF
D. ROOF SNOW LOAD
1. GROUND SNOW LOAD (Pg): 0 PSF
E. WIND LOAD
1. WIND SPEEDS: Vult = 143 MPH; Vasd = 107 MPH
2. RISK CATEGORY: II
3. WIND EXPOSURE CATEGORY: B
4. INTERNAL PRESSURE COEFFICIENT: ±0.18
5. EDGE WIDTH "a": __ FEET
6. COMPONENTS AND CLADDING PRESSURES:

COMPONENTS AND CLADDING DESIGN PRESSURES (PSF)

EWA (FT^2) \ ZONE	1		2		3		4		5		OVERHANG 2	OVERHANG 3
≤10	16	-64	16	-84	16	-114	36	-39	36	-48	-78	-108
20	16	-60	16	-79	16	-104	34	-37	34	-45	-71	-95
50	14	-54	14	-71	14	-89	33	-35	33	-41	-61	-80
100	13	-50	13	-66	13	-79	31	-34	31	-38	-54	-67
200	13	-45	13	-61	13	-68	29	-32	29	-34	-47	-54
≥500	13	-40	13	-53	13	-53	27	-30	27	-30	-37	-37
≥1000	13	-40	13	-53	13	-53	27	-30	27	-30	-37	-37

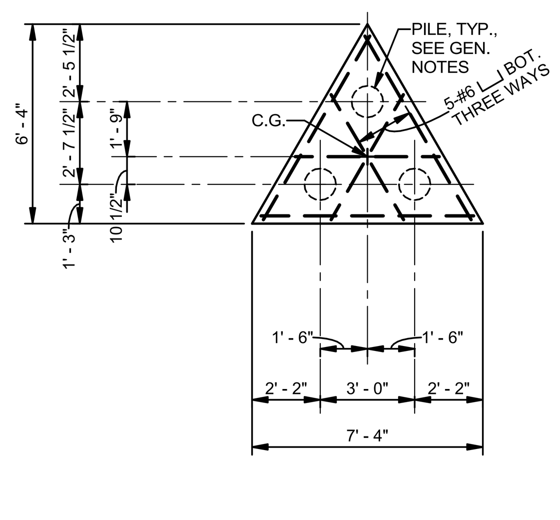
NOTES:
1.) EWA IS EFFECTIVE WIND AREA OF A STRUCTURAL COMPONENT.
2.) FOR ZONE DEFINITIONS, SEE ASCE 7-16 FIGURES 30.3-1 & 30.3-2A.
3.) PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
4.) WIND PRESSURES ABOVE ARE BASED ON Vult.

F. EARTHQUAKE DESIGN DATA
1. RISK CATEGORY: II
2. SEISMIC IMPORTANCE FACTOR (Ie): 1.0
3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
a. Ss: 0.087
b. S1: 0.054
4. SITE CLASS: E
5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
a. Sds: 0.138
b. Sd1: 0.151
6. SEISMIC DESIGN CATEGORY: C
7. BASIC SEISMIC-FORCE-RESISTING SYSTEM: STEEL ORDINARY CONCENTRICALLY BRACED FRAMES.
8. DESIGN BASE SHEAR: 37 KIPS
9. SEISMIC RESPONSE COEFFICIENTS (Cs): 0.046
10. RESPONSE MODIFICATION COEFFICIENT (R): 3.25
11. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE



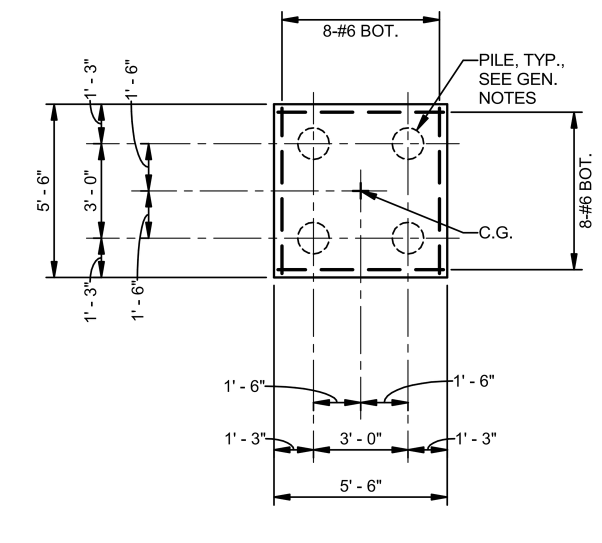
DEPTH: 2'-0"

2 DETAIL-2 PILE CAP (2PA)
S001 1/4" = 1'-0"



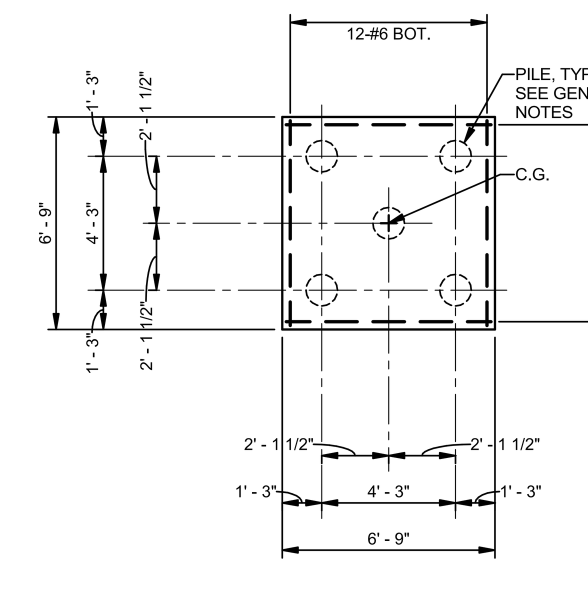
DEPTH: 2'-0"

3 DETAIL-3 PILE CAP (3PA)
S001 1/4" = 1'-0"



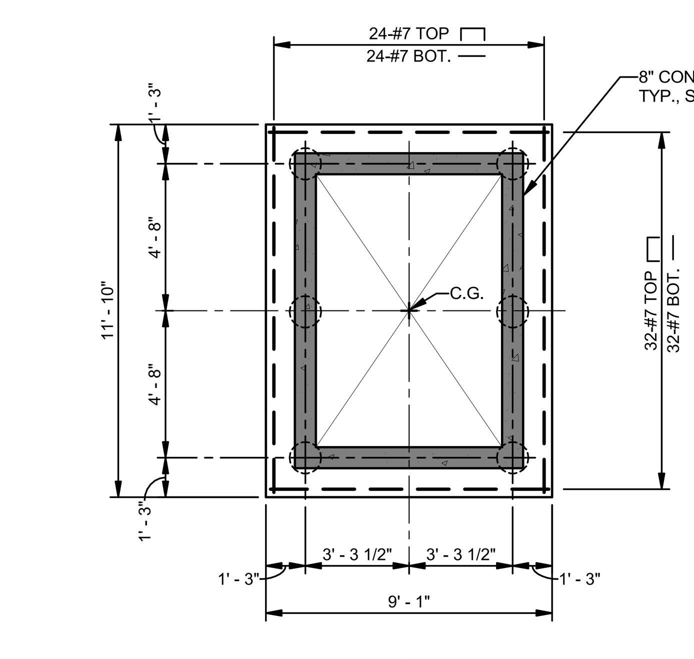
DEPTH: 2'-3"

4 DETAIL-4 PILE CAP (4PA)
S001 1/4" = 1'-0"



DEPTH: 2'-3"

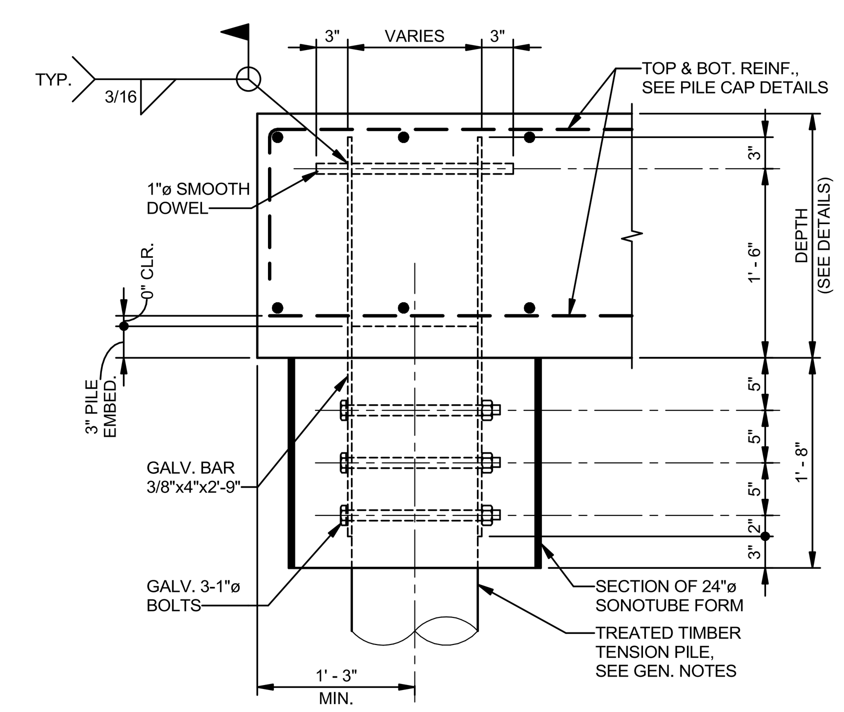
5 DETAIL-5 PILE CAP (5PA)
S001 1/4" = 1'-0"



DEPTH: 2'-0"

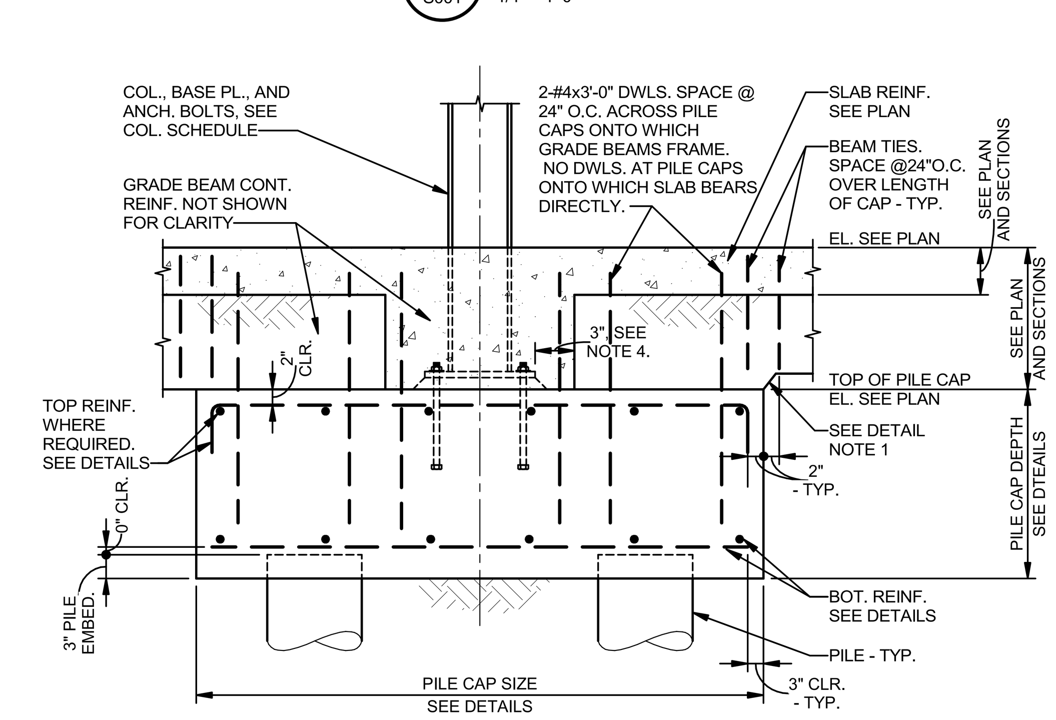
NOTES:
1. ALL ELEVATOR PIT AND PIT WALL CONCRETE SHALL CONTAIN INTEGRAL XYPEX (OR APPROVED EQUAL).

6 PLAN DETAIL - 6 PILE CAP (6PA)
S001 1/4" = 1'-0"



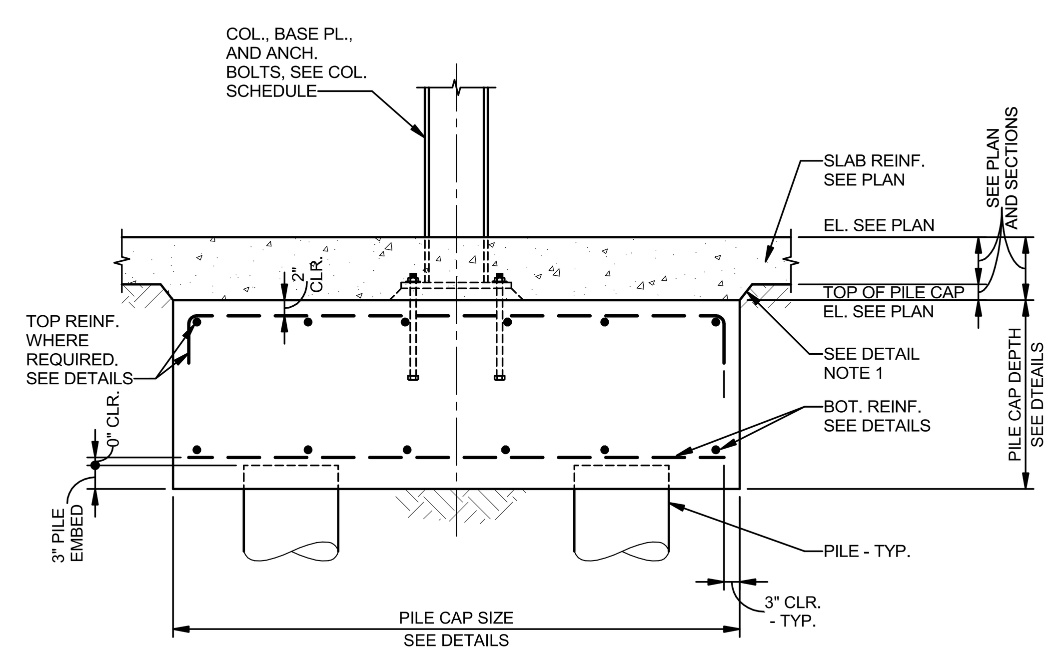
ENGINEERING NOTE: DELETE AFTER ADDED TO DRAWING:
17,250lb. ALLOWABLE CAPACITY BASED ON DOWELS.

7 DETAIL-TREATED TIMBER TENSION PILE
S001 NTS



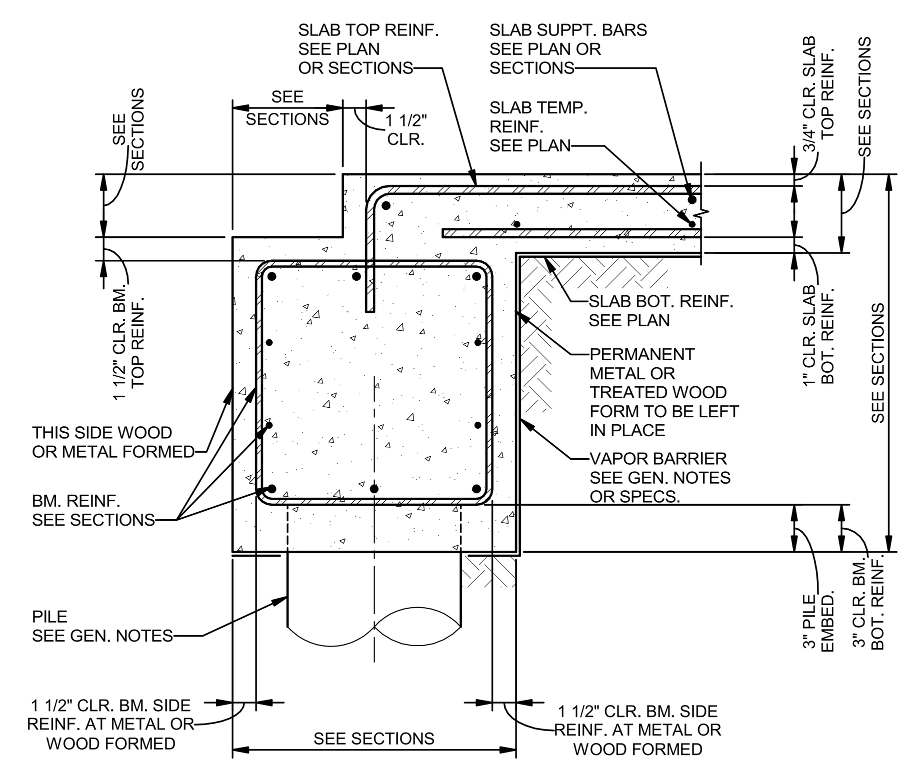
NOTES:
1. WHERE BOTTOM OF GRADE BEAM IS ABOVE TOP OF PILE CAP, POUR DOWN, AT FACE OF PILE CAP, GRADE BEAM TO TOP OF CAP.
2. ALL SIDES OF PILE CAP TO BE FORMED.
3. PROVIDE 1"ø HOLES IN STEEL COLUMN WEB TO ALLOW GRADE BEAM TOP REINFORCING TO PASS THROUGH UNINTERRUPTED. OFFSET TOP REINFORCING ON 1:6 SLOPE (IN PLAN) TO AVOID STEEL COLUMN FLANGES. IT WILL BE ALLOWABLE TO OMIT 6" LAP REQUIREMENT AT 50 OF BOTTOM BARS AT ANY COLUMN DUE TO INTERFERENCES. ALL MODIFICATIONS TO BE SHOWN ON SHOP DRAWINGS.
4. WIDEN INTERIOR FACE(S) OF CONCRETE GRADE BEAM TO PROVIDE 3" MINIMUM COVER AROUND ALL STEEL (REBAR, COLUMNS, BASE PLATE, ANCHOR BOLTS, ETC.)

8 DETAIL-TYPICAL PILE CAP W/ STEEL COLUMN
S001 NTS



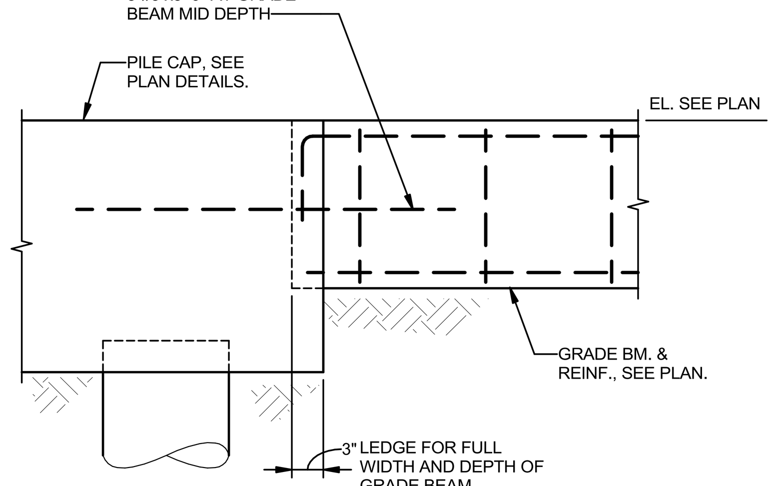
NOTES:
1. WHERE BOTTOM OF GRADE BEAM IS ABOVE TOP OF PILE CAP, POUR DOWN, AT FACE OF PILE CAP, GRADE BEAM TO TOP OF CAP.
2. ALL SIDES OF PILE CAP TO BE FORMED.

9 DETAIL-TYPICAL PILE CAP W/ STEEL COLUMN
S001 NTS



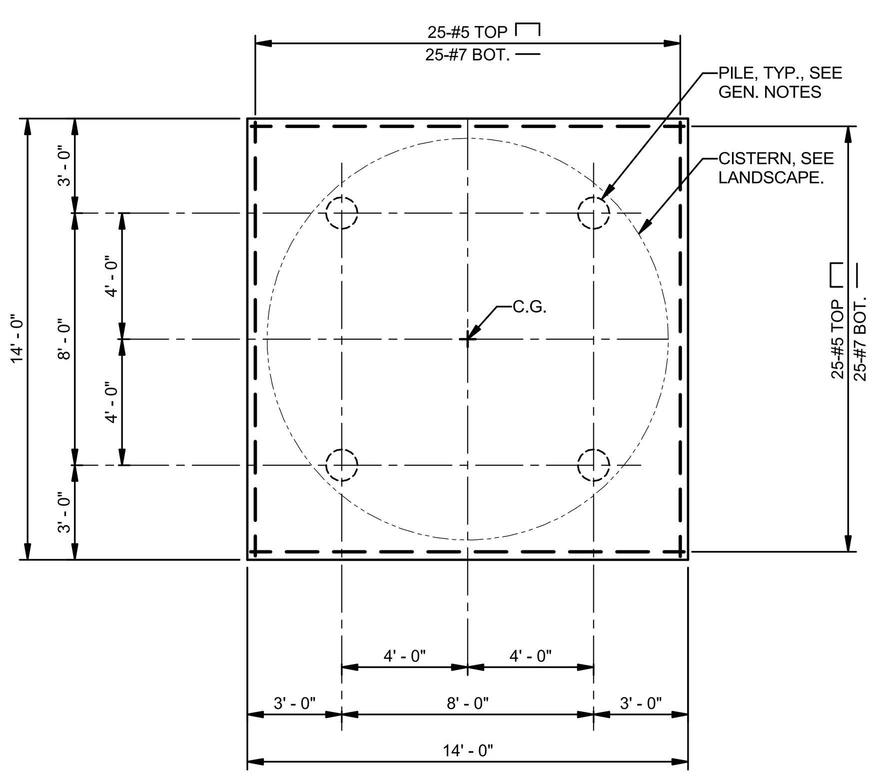
NOTES:
1. DETAIL SHOWN IS TO ILLUSTRATE REINFORCEMENT PLACEMENT AND OTHER BEAM DETAILS.
2. SEE PLANS, SCHEDULES, DETAILS, AND SECTIONS FOR DIMENSIONS. ELEVATIONS, AND REINFORCING SIZES AND QUANTITIES.

10 DETAIL-TYPICAL EXTERIOR 1ST FLOOR CONCRETE BM. W/ LEDGE
S001 NTS



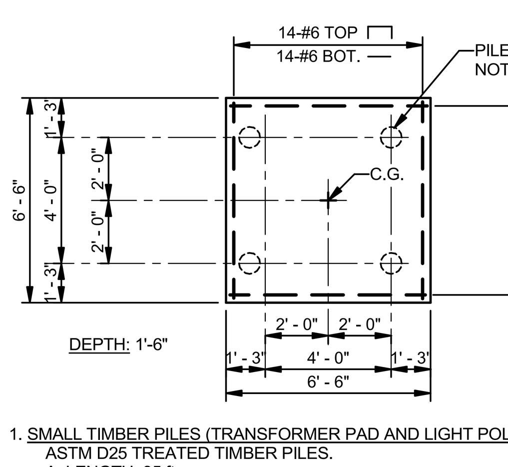
NOTES: UNLESS NOTED OTHERWISE:
1. GRADE BEAM AND PILE CAP MAY BE POURED MONOLITHICALLY

11 DETAIL-TYPICAL PILE CAP AT GRADE BEAM
S001 NTS



DEPTH: 2'-0"

12 DETAIL-4 PILE CAP (4PB) CISTERN
S001 1/4" = 1'-0"

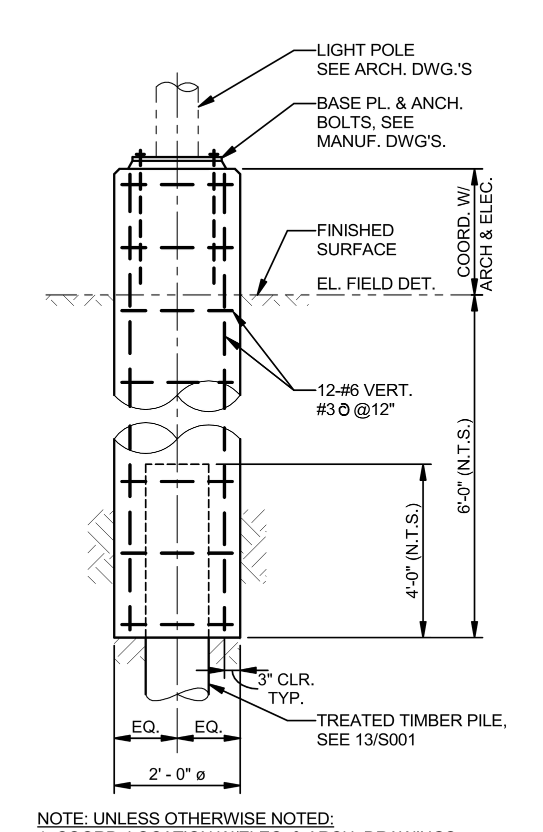


DEPTH: 1'-6"

1. SMALL TIMBER PILES (TRANSFORMER PAD AND LIGHT POLES ONLY):
ASTM D25 TREATED TIMBER PILES.
A. LENGTH: 35 ft.
B. MINIMUM TIP DIAMETER: 6"
C. MINIMUM BUTT DIAMETER: 8"
D. TREATMENT: C.C.A.; 0.80 PCF RETENTION PER AWPA SPECIFICATIONS.
E. CUT-OFF TREATMENT: BRUSH TREAT TOP OF PILE WITH COPPER NAPTHENATE CONFORMING TO AWPA SPECIFICATION M4.
F. FOLLOWING: PILES MAY BE FOLLOWED. ALLOW 1'-0" FOR CUT-OFF.
G. PREDRILL: 8 ft., 6"ø FOUR BLADE FISHTAIL BIT
H. HAMMER: NO. 2 VULCAN OR 3,000 LB DROP HAMMER DELIVERING 9,000 FT.-LBS OF ENERGY PER BLOW.
I. EXPLORATORY PILES: 0
J. LOAD TEST: 0
K. DESIGN LOAD: 4 TONS PER CITY OF NEW ORLEANS LOAD CAPACITY MAPS.

LARGE PILES PER GENERAL NOTES MAY BU SUBSTITUTED ON A 1:1 BASIS AT THE CONTRACTOR'S OPTION.

13 DETAIL-4 PILE CAP (4PC) TRANSFORMER
S001 1/4" = 1'-0"



NOTE: UNLESS OTHERWISE NOTED:
1. COORD. LOCATION W/ELEC. & ARCH. DRAWINGS.

14 DETAIL-LIGHT POLE FOUNDATION
S001 1/2" = 1'-0"

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
10/08/2025	GMP SET
12/10/2025	85% CDS
01/19/26	100% CDS

REVISIONS

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CITY REQUIREMENTS. I AM GENERALLY ADMINISTERING THE WORK.

ENGINEER ____ REG. NO. ____

STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. No. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
01-19-26

WDG Project No:

SHEET NAME
GENERAL NOTES

SHEET NO. S001

1 S002 SPECIAL INSPECTIONS

SPECIAL INSPECTIONS DEFINITIONS AND ABBREVIATIONS
DEFINITIONS AND ABBREVIATIONS
a. FREQUENCY - REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
b. CONT - CONTINUOUS INSPECTION. SPECIAL INSPECTOR SHALL BE ON SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION.
c. PERIODIC - PERIODIC INSPECTION. INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE WITH APPROVED CONTRACT DOCUMENTS.
d. QC - FABRICATOR OR ERECTOR INSPECTION PERSONNEL.
e. QA - THIRD PARTY INSPECTION PERSONNEL QUALIFIED IN ACCORDANCE WITH THE LOCAL BUILDING CODE REQUIREMENTS.
f. O - OBSERVE THESE ITEMS ON A RANDOM INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PREFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS.
g. P - PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH WELDED JOINT OR MEMBER, BOLTED CONNECTION, OR COMPOSITE STEEL ELEMENT.
h. D - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.

(IBC TABLE 1705.7)
REQUIRED SPECIAL INSPECTIONS TESTS OF DRIVEN DEEP FOUNDATION ELEMENTS

INSPECTION TASKS	CONTINUOUS INSPECTION	PERIODIC INSPECTION
1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	-
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	-
3. INSPECTING DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	-
5. FOR STEEL ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2.	IN ACCORDANCE WITH SECTION 1705.2	
6. FOR CONCRETE ELEMENTS AND CONCRETE FILLED ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	IN ACCORDANCE WITH SECTION 1705.3	
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	IN ACCORDANCE WITH STATEMENT OF SPECIAL INSPECTIONS	

(IBC TABLE 1705.3)
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

INSPECTION TASKS	CONTINUOUS INSPECTION	PERIODIC INSPECTION	REFERENCED STANDARD[a]	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	-	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	-
2. REINFORCING BAR WELDING:				
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	-	X	AWS D1.4	-
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	-	X	ACI 318: 26.6.4	
C. INSPECT ALL OTHER WELDS.	X	-		
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	X	-	ACI 318: 17.8.2.4	-
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	-	X	ACI 318: 17.8.2	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.				
5. REVIEW CONCRETE MIX DESIGNS FOR COMPLIANCE WITH CONTRACT DOCUMENTS & VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. PRIOR TO CONCRETE PLACEMENT. FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C31 ASTM C172 ACI 318: 26.5, 26.12	-
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	-
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 26.5.3 - 26.5.5	-
9. INSPECT PRESTRESSED CONCRETE FOR:				
A. APPLICATION OF PRESTRESSING FORCES, AND	X	-	ACI 318: 26.10	-
B. GROUTING OF BONDED PRESTRESSING TENDONS	X	-		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: 26.9	-
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:				-
A. INSTALLATION OF THE EMBEDDED PARTS.	X	-	ACI 318: 26.13.1.3	
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS.	X	-	ACI 550.5	
C. COMPLETION OF CONNECTIONS IN THE FIELD.	X	-		
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.	-	X	ACI 318: 26.13.1.3	-
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	-
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2(b)	-

[a] WHERE APPLICABLE, SEE SECTION 1705.13.
[b] SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL INCLUDED IN THE RESEARCH REPORT FOT THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION

INSPECTION OF WELDING

AISC 360 TABLE N5.4-1	INSPECTION TASKS PRIOR TO WELDING	QC	QA
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS		P	O
WPS AVAILABLE		P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)		O	O
WELDER IDENTIFICATION SYSTEM[d]		O	O
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)		O	O
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)		P	O
CONFIGURATION AND FINISH OF ACCESS HOLES		O	O
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)		O	O
CHECK WELDING EQUIPMENT		O	-

[d] THE FABRICATOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

AISC 360 TABLE N5.4-2	INSPECTION TASKS DURING WELDING	QC	QA
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL		O	O
NO WELDING OVER CRACKED TACK WELDS		O	O
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE		O	O
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F, V, H, OH)		O	O
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS		O	O
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS		O	O

AISC 360 TABLE N5.4-3	INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED		O	O
SIZE, LENGTH AND LOCATION OF WELDS		P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY		P	P
ARC STRIKES		P	P
K-AREA [e]		P	P
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES [h]		P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)		P	P
REPAIR ACTIVITIES		P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		P	P
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT APPROVAL OF THE EOR		O	O

[e] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENER HAS BEEN PERFORMED IN THE *K*-AREA, VISUALLY INSPECT THE WEB *K*-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.
[h] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION

INSPECTION OF BOLTING

AISC 360 TABLE N5.6-1	INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MANUFACTURERS CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		O	O
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		O	O
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		P	O
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS		O	O

AISC 360 TABLE N5.6-2	INSPECTION TASKS DURING BOLTING	QC	QA
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED		O	O
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC *SPECIFICATION*, PROGRESSING SYSTEMATICALLY FROM MOST RIGID POINT TOWARD THE FREE EDGES		O	O

AISC 360 TABLE N5.6-3	INSPECTION TASKS AFTER BOLTING	QC	QA
DOCUMENT ACCEPTED AND REJECTED CONNECTIONS		P	P

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STEEL DECKING

SDI QA/QC TABLE 1.1	INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT	QC	QA
VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH *CONSTRUCTION DOCUMENTS*, INCLUDING PROFILES, MATERIAL PROPERTIES AND BASE METAL THICKNESS		PERFORM	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES		PERFORM	PERFORM

SDI QA/QC TABLE 1.2	INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT	QC	QA
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES' INSTALLATION WITH *CONSTRUCTION DOCUMENTS*		PERFORM	PERFORM
VERIFY DECK MATERIALS ARE REPRESENTED BY MILL CERTIFICATIONS THAT COMPLY WITH THE *CONSTRUCTION DOCUMENTS*		N/A	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES		PERFORM	PERFORM

SDI QA/QC TABLE 1.3	INSPECTION OR EXECUTION TASKS PRIOR TO WELDING	QC	QA
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE		OBSERVE	OBSERVE
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		OBSERVE	OBSERVE
MATERIAL IDENTIFICATION (GRADE/TYPE)		OBSERVE	OBSERVE
CHECK WELDING EQUIPMENT		OBSERVE	OBSERVE

SDI QA/QC TABLE 1.4	INSPECTION OR EXECUTION TASKS DURING WELDING	QC	QA
USE OF QUALIFIED WELDERS		OBSERVE	OBSERVE
CONTROL AND HANDLING OF WELDING CONSUMABLES		OBSERVE	OBSERVE
ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)		OBSERVE	OBSERVE
WPS FOLLOWED		OBSERVE	OBSERVE

SDI QA/QC TABLE 1.5	INSPECTION OR EXECUTION TASKS AFTER WELDING	QC	QA
VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDE-LAP AND PERIMETER WELDS		PERFORM	PERFORM
WELDS MEET VISUAL ACCEPTANCE CRITERIA		PERFORM	PERFORM
VERIFY REPAIR ACTIVITIES		PERFORM	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS		PERFORM	PERFORM

SDI QA/QC TABLE 1.6	INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING	QC	QA
MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS		OBSERVE	OBSERVE
PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION		OBSERVE	OBSERVE
PROPER STORAGE FOR MECHANICAL FASTENERS		OBSERVE	OBSERVE

SDI QA/QC TABLE 1.7	INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING	QC	QA
FASTENERS ARE POSITIONED AS REQUIRED		OBSERVE	OBSERVE
FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS		OBSERVE	OBSERVE

SDI QA/QC TABLE 1.8	INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING	QC	QA
CHECK SPACING, TYPE AND INSTALLATION OF SUPPORT FASTENERS		PERFORM	PERFORM
CHECK SPACING, TYPE AND INSTALLATION OF SIDE-LAP FASTENERS		PERFORM	PERFORM
CHECK SPACING, TYPE AND INSTALLATION OF PERIMETER FASTENERS		PERFORM	PERFORM
VERIFY REPAIR ACTIVITIES		PERFORM	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS		PERFORM	PERFORM

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
10/08/2025	GMP SET
12/10/2025	85% CDS
01/19/26	100% CDS

REVISIONS

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CITY REQUIREMENTS. I AM GENERALLY ADMINISTERING THE WORK.

ENGINEER _____ REG. NO. _____

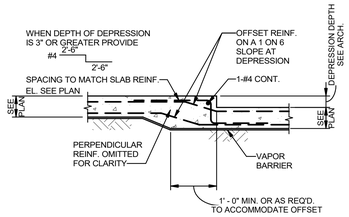
STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. No. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-19-26

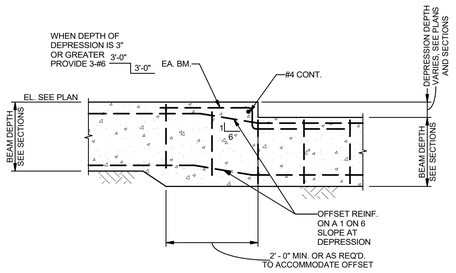
WDG Project No:

SHEET NAME
SPECIAL INSPECTIONS

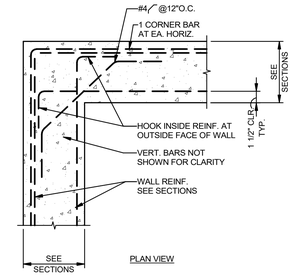
SHEET NO. S002



1 S003 DETAIL-TYPICAL SLAB DEPRESSION
NTS

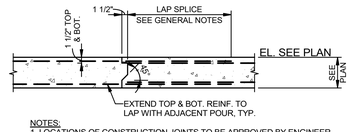


2 S003 DETAIL-CONCRETE BEAM DEPRESSION
NTS



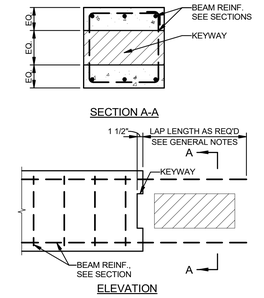
NOTES:
1. DETAIL SHOWN IS TO ILLUSTRATE REINFORCING PLACEMENT ONLY
2. SEE PLANS, DETAILS AND SECTIONS FOR DIMENSIONS, ELEVATIONS, AND MAIN WALL REINFORCING SIZES AND QUANTITIES.

3 S003 DETAIL- TYPICAL WALL REINFORCING LAYOUT
NTS

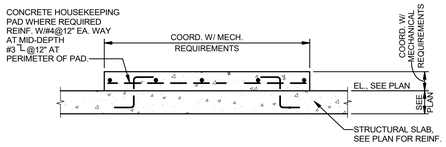


NOTES:
1. LOCATIONS OF CONSTRUCTION JOINTS TO BE APPROVED BY ENGINEER.
2. REINFORCING IN OPPOSITE DIRECTION NOT SHOWN.

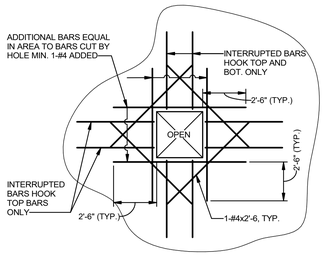
4 S003 DETAIL-TYPICAL FLOOR SLAB CONSTRUCTION JOINT
NTS



5 S003 DETAIL-TYPICAL CONCRETE BEAM BULKHEAD
NTS

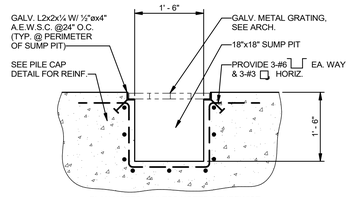


6 S003 DETAIL-HOUSEKEEPING PAD
NTS



NOTES:
1. OMIT ADDED BARS FOR HOLES 10" OR LESS AND RUN NORMAL REINFORCING BY SIDE OF HOLE.
2. WHERE HOLES ARE NEAR OR AGAINST BEAMS OR COLUMNS AND ADDED REINFORCING CANNOT BE EXTENDED AS SHOWN, HOOK AFFECTED END.
3. LOCATIONS OF ALL OPENINGS SHALL BE AS SHOWN ON ARCH. DWGS.

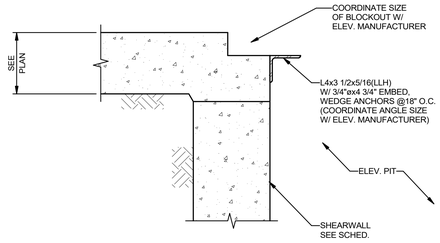
7 S003 DETAIL-TYPICAL SLAB PENETRATION
NTS



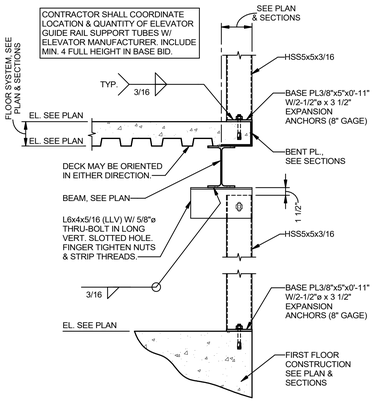
PLAN NOTES: UNLESS NOTED OTHERWISE:
1. PLACE TWO TOP BARS EACH SIDE OF SUMP PIT, EACH DIRECTION.

NOTE:
FOR USE IN PILE CAPS DELETE AFTER ADDING TO PROJECT.

8 S003 DETAIL-TYPICAL ELEVATOR SUMP PIT
NTS



9 S003 DETAIL-TYPICAL ELEVATOR SILL
NTS

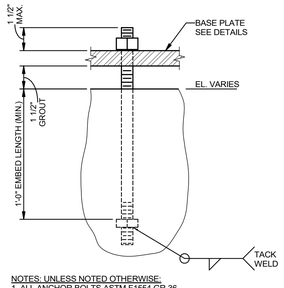


10 S003 DETAIL-TYPICAL ELEVATOR GUIDE RAIL SUPPORT
1" = 1'-0"

11 S003 COLUMN SCHEDULE

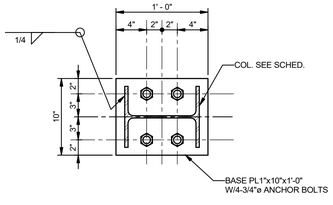
NOTE: UNLESS NOTED OTHERWISE:
1. ⋆ - INDICATES OVERSIZED BASE PLATE, SEE 7/S401.

COLUMN DESIGNATION	F-1⋆ G-1	E-2 F-2	A-1 D-4 B-1⋆ E-4⋆ C-1⋆ F-4⋆ A-2 G-4 A-3 A-4⋆ B-4⋆ C-4⋆	B-2 C-2 D-2 B-3⋆ C-3⋆ D-3 E-3 F-3⋆	D-1 G-2 G-3	E-1⋆		
ROOF EL. SEE PLAN	BEAM, SEE PLAN		BEAM, SEE PLAN		BEAM, SEE PLAN	BEAM, SEE PLAN		
MECHANICAL LOFT EL. 132' - 0"								
SECOND FLOOR EL. 116' - 6"	W10x39	W10x39	W10x33	W10x33	W10x49	W14x68		
FIRST FLOOR EL. 100' - 0"								
TOP OF PILE CAP/PEDESTAL EL. SEE PLAN								
BASE PLATE	SEE 13/S003	SEE 13/S003	SEE 13/S003	SEE 13/S003	SEE 14/S003	SEE 15/S003		

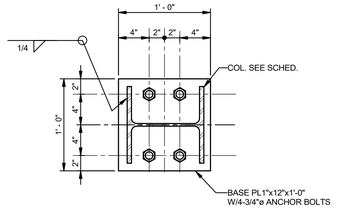


NOTES: UNLESS NOTED OTHERWISE:
1. ALL ANCHOR BOLTS ASTM F1554 GR 36.
2. PROVIDE LEVELING NUTS AS REQ'D TO SUPPORT BASEPLATE.
3. PROVIDE PLATE WASHERS AT ALL OVERSIZED HOLES PER AISC DG1, TABLE 2.3.

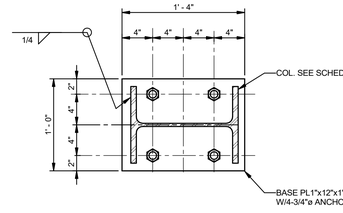
12 S003 DETAIL-ANCHOR BOLT TYPE 1
NTS



13 S003 DETAIL-BASE PLATE
1 1/2" = 1'-0"



14 S003 DETAIL-BASE PLATE
1 1/2" = 1'-0"



15 S003 DETAIL-BASE PLATE
1 1/2" = 1'-0"

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PERMIT SET

DRAWING ISSUE

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01/19/26	100% CDS

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ENGINEER
REG. NO.

STATE OF LOUISIANA
JONATHAN A SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

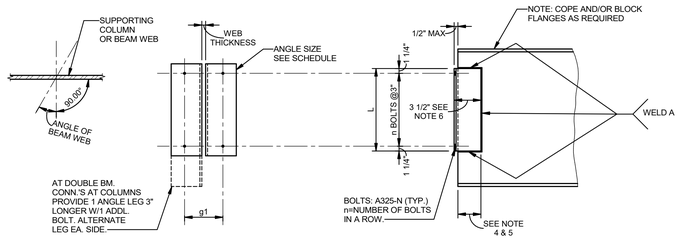
01-19-26

WDG Project No:

SHEET NAME
TYPICAL DETAILS

SHEET NO.
S003

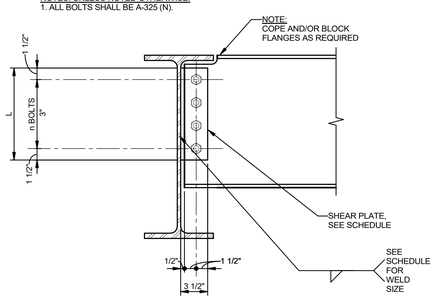
1 S004 TYPICAL BEAM TO BEAM AND BEAM TO COLUMN CONNECTION SCHEDULE AND DETAIL



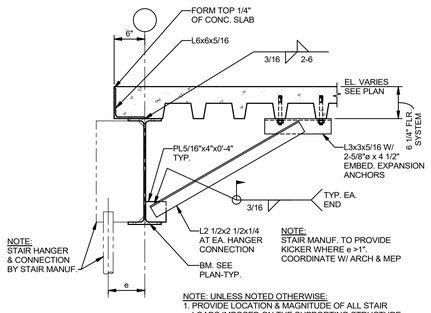
NOTES:
1. WHERE BEAMS AND GIRDERS FRAME INTO A W8 COLUMN OR THE WEB OF A W10 COLUMN, ANGLE SIZE 3x3x5AME THICKNESS SHALL BE USED AND g1 SHALL BE DECREASED 1 1/2" TYPICALLY.
2. FOR CHANNEL CONNECTIONS, USE ANGLE AND BOLTS FOR SIMILAR DEPTH BEAM SHOWN BELOW.
3. FOR ANGLES 0° TO 14° FROM PERPENDICULAR, ANGLES SHALL BE BENT.
4. FOR ANGLES 14° TO 33.7° FROM PERPENDICULAR, PROVIDE 2 BENT PLATES 3/8"x AS REQ'D. BY GEOMETRY (PROVIDE MIN. 3" WELD).
5. FOR ANGLES 33.7° TO 71.6° FROM PERPENDICULAR, PROVIDE 1 BENT PLATE 3/8"x AS REQ'D. BY GEOMETRY (PROVIDE MIN. 3" WELD).
6. LEG SHALL BE ADJUSTED WHERE REQUIRED BY GEOMETRY.

	ANGLES 0° TO 33.7°						ANGLES 33.7° TO 71.6°	
BEAM SIZE	ANGLE SIZE	L in.	n	g1	WELD A	BOLT DIAMETER	L in.	n
C8's, C10's, W8's & W10's	L4x3 1/2x5/16	5 1/2	2	5 1/2	3/16	3/4"	5 1/2	2
C12's & W12's	L4x3 1/2x5/16	5 1/2	2	5 1/2	3/16	3/4"	8 1/2	3
W14's	L4x3 1/2x5/16	8 1/2	3	5 1/2	3/16	3/4"	11 1/2	4
W16's	L4x3 1/2x5/16	8 1/2	3	5 1/2	3/16	3/4"	11 1/2	4
W18's	L4x3 1/2x5/16	11 1/2	4	5 1/2	3/16	3/4"	14 1/2	5
W21's	L4x3 1/2x5/16	11 1/2	4	5 1/2	3/16	3/4"	17 1/2	6
W24's	L4x3 1/2x5/16	14 1/2	5	5 1/2	3/16	3/4"		
W27's	L4x3 1/2x5/16	17 1/2	6	5 1/2	1/4	3/4"		
W30's	L4x3 1/2x3/8	20 1/2	7	5 1/2	1/4	3/4"		
W33's	L4x3 1/2x3/8	23 1/2	8	5 1/2	1/4	3/4"		
W36's	L4x3 1/2x3/8	26 1/2	9	5 1/2	1/4	3/4"		
W40's	L4x3 1/2x3/8	29 1/2	10	5 1/2	1/4	3/4"		

2 S004 ALTERNATE BEAM TO BEAM CONNECTION SCHEDULE AND DETAIL

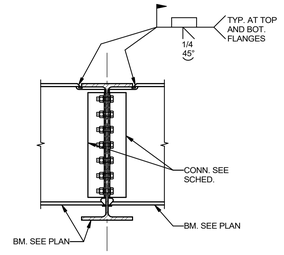


BEAM SIZE	PLATE SIZE	L in.	n	WELD (TYP.) EA. SIDE	BOLT DIAMETER
W8's	5/16"x 3 1/2"	6	2	1/4	3/4"
W10's	5/16"x 3 1/2"	6	2	1/4	3/4"
W12's	5/16"x 3 1/2"	9	3	1/4	3/4"
W14's	5/16"x 3 1/2"	9	3	1/4	3/4"
W16's	5/16"x 3 1/2"	12	4	1/4	3/4"
W18's	5/16"x 3 1/2"	12	4	1/4	3/4"
W21's	3/8"x 3 1/2"	15	5	5/16	3/4"
W24's	3/8"x 3 1/2"	15	5	5/16	3/4"
W27's	3/8"x 3 1/2"	18	6	5/16	3/4"

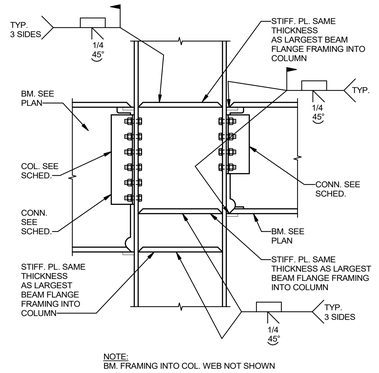


NOTE: UNLESS NOTED OTHERWISE:
1. PROVIDE LOCATION & MAGNITUDE OF ALL STAIR LOADS IMPOSED ON THE SUPPORTING STRUCTURE ON FIRST SHOP DRAWING SUBMITTAL.
2. HANGERS SHALL BE CONCENTRIC W/ BEAM ABOVE AT ALL EXTERIOR LOCATIONS.

3 S004 DETAIL- STAIR HANGER AND CONNECTION
NTS

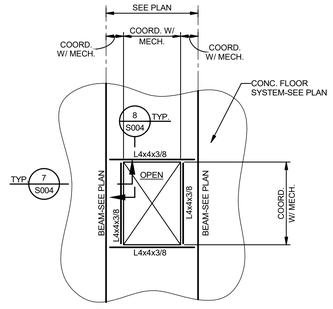


4 S004 DETAIL-TYPICAL MOMENT CONNECTION BEAM TO BEAM
NTS



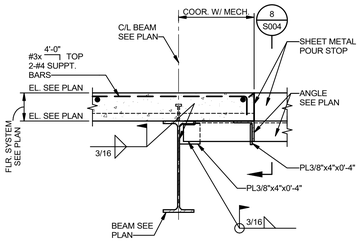
NOTE:
BM. FRAMING INTO COL. WEB NOT SHOWN

5 S004 DETAIL-TYPICAL MOMENT CONNECTION TO COLUMN FLANGE
NTS

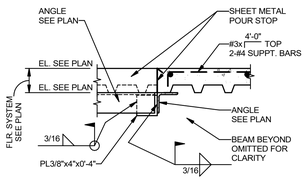


NOTES:
1. COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL.
2. FRAME OPENINGS AT ROOF SIMILAR.
3. ANY OPENINGS WHICH CANNOT BE FRAMED AS SHOWN SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR REVIEW.

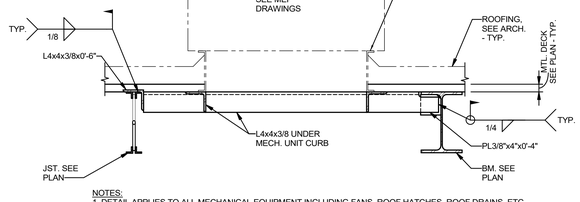
6 S004 PLAN DETAIL-TYP. SLAB OPENING
NTS



7 S004 SECTION
NTS

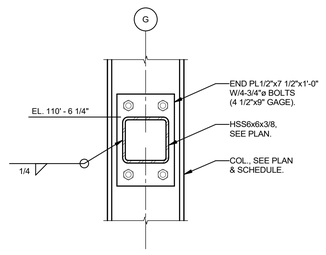


8 S004 SECTION
NTS



NOTES:
1. DETAIL APPLIES TO ALL MECHANICAL EQUIPMENT INCLUDING FANS, ROOF HATCHES, ROOF DRAINS, ETC.
2. NOT ALL MECHANICAL EQUIPMENT LOCATIONS & WEIGHTS KNOWN OR SHOWN ON STRUCTURAL DRAWINGS. WHERE NOT INDICATED ON PLANS OTHERWISE, CONTRACTOR TO FOLLOW RECOMMENDATIONS SHOWN IN DETAIL FOR SUPPORT OF SAID EQUIPMENT.
3. PROVIDE WIDE FLANGE BEAM, W/ SECTION MODULOUS AND MOMENT OF INERTIA NECESSARY TO SATISFY THE DESIGN.

9 S004 DETAIL- TYP. ROOF MOUNTED MECHANICAL EQUIPMENT SUPPORT
NTS



10 S004 DETAIL - TYPICAL HSS CANOPY BEAM TO COLUMN CONNECTION
1 1/2" = 1'-0"

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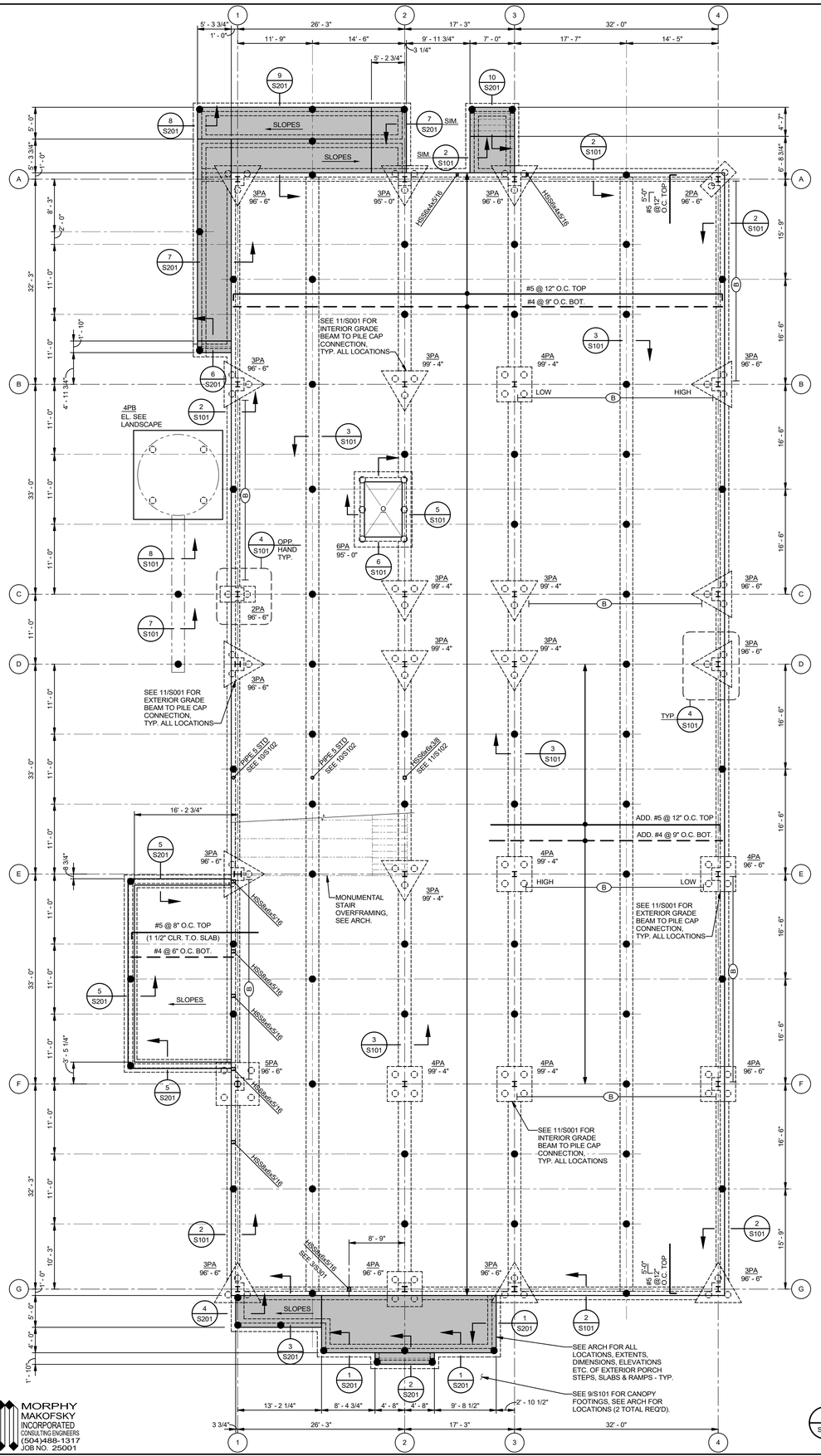
STATE OF LOUISIANA
01-19-26

WDG Project No:

SHEET NAME

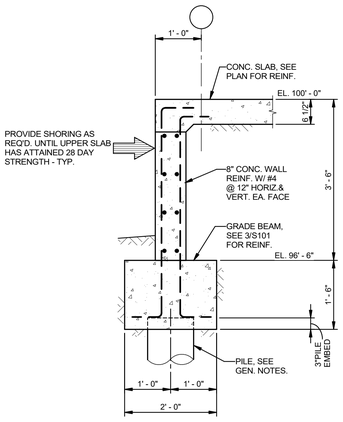
TYPICAL DETAILS

SHEET NO. S004

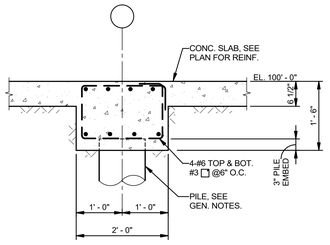


1 FOUNDATION & FIRST FLOOR FRAMING PLAN
S101 — 1/8" = 1'-0"

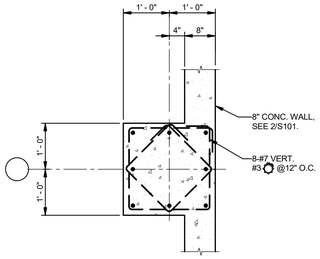
PLAN NOTES: UNLESS NOTED OTHERWISE:
1. TOP OF SLAB EL. 100'-0". SEE CIVIL FOR ACTUAL DATUM.
2. 6 1/2" CONCRETE SLAB THROUGHOUT. SEE PLAN FOR MAIN REINFORCING. PROVIDE #3 @ 9" O.C. TEMPERATURE REINFORCING ON TOP OF AND PERPENDICULAR TO MAIN BOTTOM REINFORCING. REFER TO SECTIONS, DETAILS, SCHEDULES, ETC. FOR ADDITIONAL REINFORCING NOT CALLED OUT ON PLAN.
3. ● - INDICATES SINGLE PILE, SEE GENERAL NOTES. SEE SECTIONS AND DETAILS FOR CUT-OFF ELEVATIONS.
4. EP-1 - INDICATES LOCATION OF EXPLORATORY PILE NO. 1.
5. 4PA 96'-6" - INDICATES 4 PILE CAP VARIES SEE PLAN. SEE DETAILS FOR SIZE AND REINFORCING.
6. ⊠ ⊗ - INDICATES FLOOR PENETRATIONS FOR HVAC, PLUMBING, ELECTRICAL. ETC. COORDINATE LOCATIONS WITH RESPECTIVE CONSULTANT. PENETRATIONS TO BE CAST WITH SLAB. DO NOT CORE-DRILL OR SAW-CUT PENETRATIONS AFTER THE FLOOR IS CAST.
7. - INDICATES AREA TO BE DEPRESSED. COORDINATE EXTENTS AND DEPTH OF ALL DEPRESSIONS WITH ARCHITECT AS WELL AS WITH MANUFACTURER'S REQUIREMENTS FOR PRODUCTS TO BE INSTALLED WITHIN THOSE DEPRESSIONS BEFORE FORMING FOR THE CONCRETE POUR BEGINS.
8. (B) - INDICATES LATERAL BRACING. SEE ELEVATIONS.
9. - INDICATES EXTENTS OF 5" CONCRETE SLAB, REINFORCE W/ #4 @9" O.C., EA. WAY MID DEPTH. REFER TO SECTIONS, DETAILS, SCHEDULES, ETC. FOR ADDITIONAL REINFORCING NOT CALLED OUT ON PLAN.



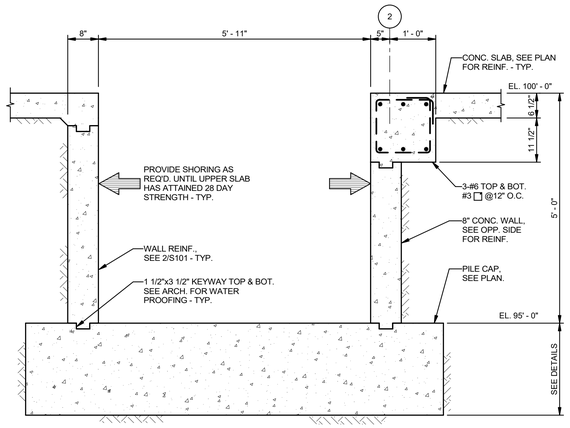
2 SECTION
S101 — 3/4" = 1'-0"



3 SECTION
S101 — 3/4" = 1'-0"

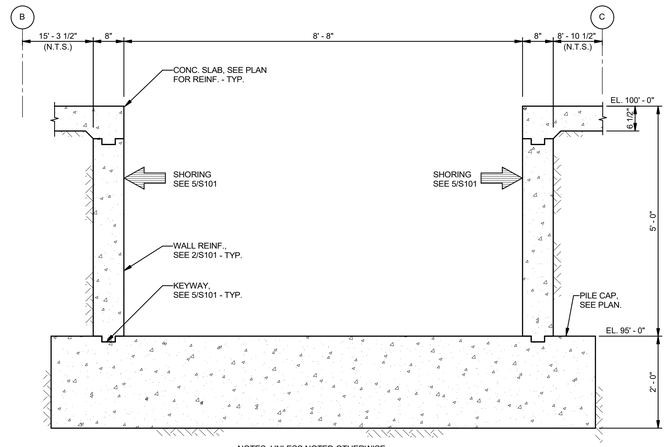


4 PLAN DETAIL - TYPICAL CONCRETE PEDESTAL
S101 — 3/4" = 1'-0"



NOTES: UNLESS NOTED OTHERWISE:
1. ALL ELEVATOR PIT AND PIT WALL CONCRETE SHALL CONTAIN INTEGRAL XYPEX (OR APPROVED EQUAL).

5 SECTION
S101 — 3/4" = 1'-0"



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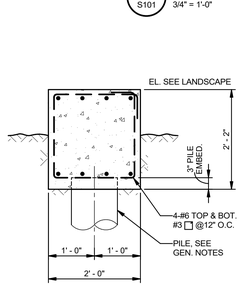
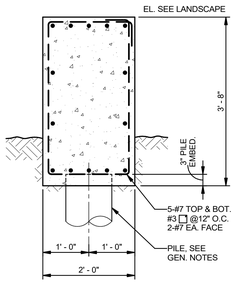
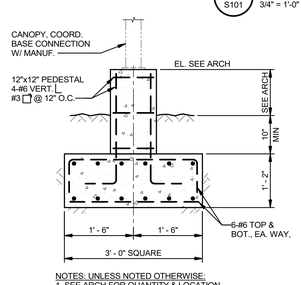
6 SECTION
S101 — 3/4" = 1'-0"



7 SECTION
S101 — 3/4" = 1'-0"



8 SECTION
S101 — 3/4" = 1'-0"



NOTES: UNLESS NOTED OTHERWISE:
1. SEE ARCH FOR QUANTITY & LOCATION.

9 DETAIL - CANOPY FOOTING
S101 — 3/4" = 1'-0"

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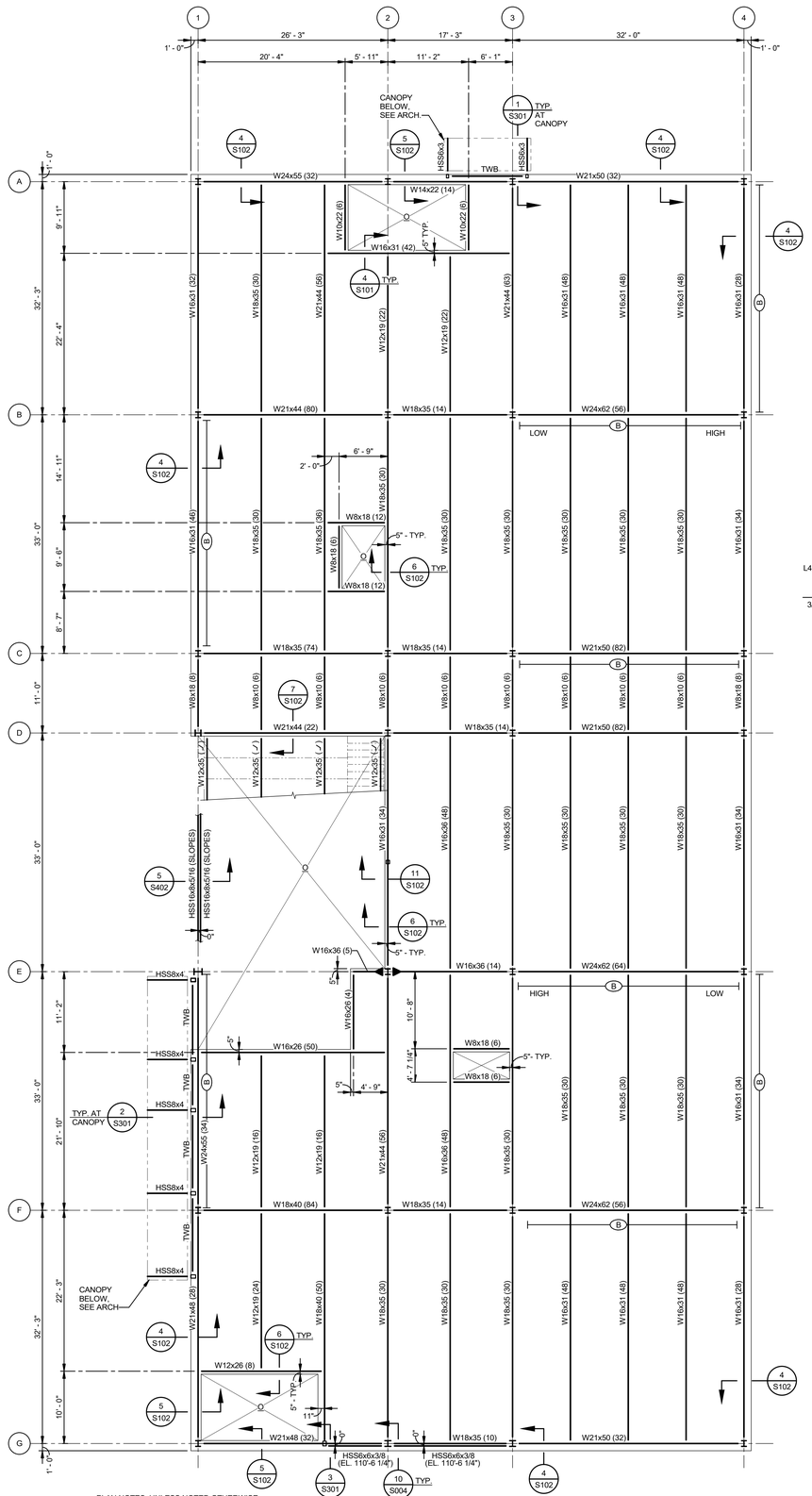
STATE OF LOUISIANA
01-19-26

WDG Project No:

SHEET NAME

FIRST FLOOR & FOUNDATION FRAMING PLAN

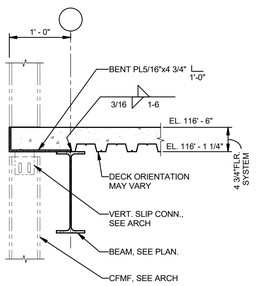
SHEET NO. S101



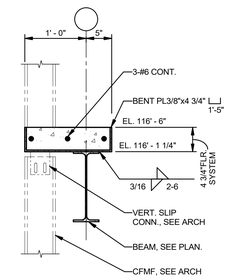
PLAN NOTES: UNLESS NOTED OTHERWISE:
1. TOP OF SLAB EL. 116'-6". TOP OF STEEL EL. 116'-1 1/4".
2. FLOOR SYSTEM TO CONSIST OF L.W. CONCRETE ON 1.5VL18 COMPOSITE METAL DECKING. TOTAL FLOOR THICKNESS 4 3/4" ON 1 1/2" METAL DECK. REINFORCE SLAB WITH 1 LAYER 6x6-W2.1xW2.1 W.W.F. LOCATED 1" BELOW TOP OF SLAB.
3. W16x26(36) - INDICATES W16x26 WITH (36)-3/4"ø x3 1/2" H.C.A. EQUALLY SPACED ALONG CENTER OF BEAM (FIELD INSTALLED).
4. ⊢◆⊣ - INDICATES MOMENT CONNECTION. SEE TYPICAL DETAILS.
5. ⊠ ⊗ - INDICATES FLOOR PENETRATIONS FOR HVAC, PLUMBING, ELECTRICAL. ETC. COORDINATE LOCATIONS WITH RESPECTIVE CONSULTANT. PENETRATIONS TO BE CAST WITH SLAB. DO NOT CORE-DRILL OR SAW-CUT. PENETRATIONS AFTER THE FLOOR IS CAST.
6. ⊢B⊣ - INDICATES LATERAL BRACING. SEE ELEVATIONS.
7. HSS6x3 - INDICATES HSS6x3x5/16 OUTRIGGERS AT CANOPY, TOP OF STEEL EL. 110'-6 1/4".
   HSS8x4 - INDICATES HSS8x4x5/16 OUTRIGGERS AT CANOPY, TOP OF STEEL EL. 110'-6 1/4".
8. TWB - INDICATES TRANSOM WINDOW BEAM, HSS6x3x5/16 (LSH), TOP OF STEEL EL. 110'-6 1/4".

1 S102 SECOND FLOOR FRAMING PLAN
1/8" = 1'-0"

N

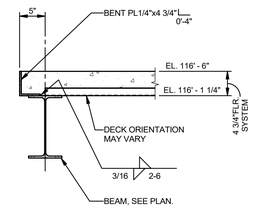


4 S102 SECTION
1" = 1'-0"

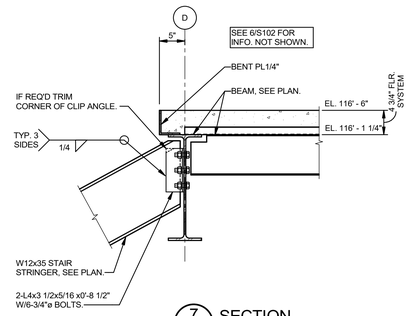


NOTE: UNLESS NOTED OTHERWISE:
1. EXTEND REINFORCING 3'-0" PAST OPENING, & PROVIDE CORNER BARS AT ALL CORNERS.

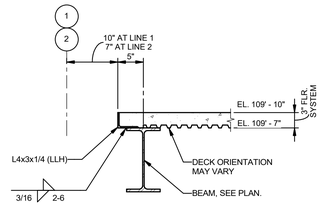
5 S102 SECTION
1" = 1'-0"



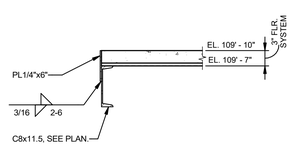
6 S102 SECTION
1" = 1'-0"



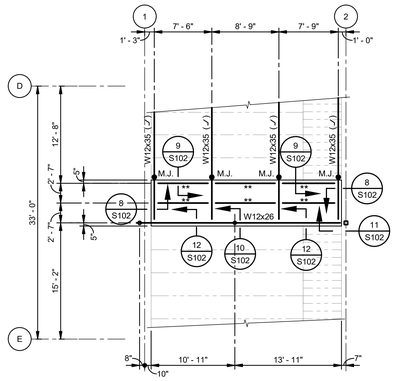
7 S102 SECTION
1" = 1'-0"



8 S102 SECTION
1" = 1'-0"



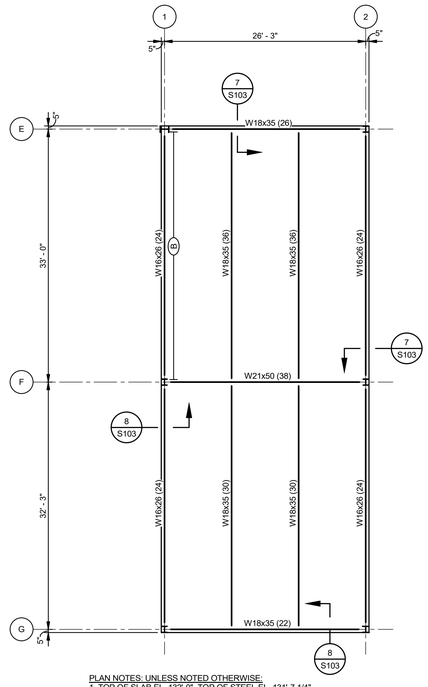
9 S102 SECTION
1" = 1'-0"



PLAN NOTES: UNLESS NOTED OTHERWISE:
1. TOP OF SLAB EL. 109'-10". TOP OF STEEL EL. 109'-7"
2. SEE ARCH FOR ALL DIMENSIONS & ELEVATIONS NOT SHOWN.
3. FLOOR SYSTEM TO CONSIST OF N.W. CONCRETE ON 0.6C24 NON-COMPOSITE METAL DECKING. TOTAL FLOOR THICKNESS 3". REINFORCE SLAB WITH 1 LAYER 6x6-W2.9xW2.9 W.W.F. LOCATED 1" BELOW TOP OF SLAB.
4. ● M.J. - INDICATES MITER JOINT, SEE 5/S105.
5. ** - INDICATES C8x11.5.

3 S102 MONUMENTAL STAIR LANDING FRAMING PLAN
1/8" = 1'-0"

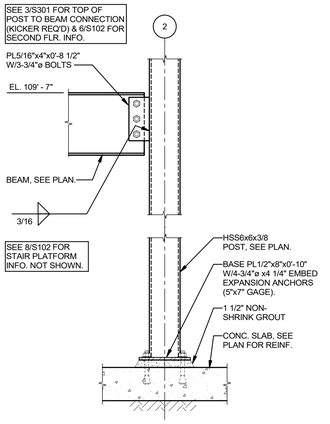
N



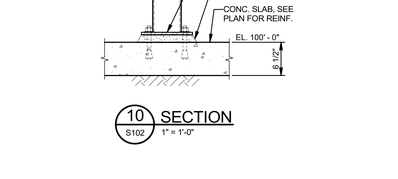
PLAN NOTES: UNLESS NOTED OTHERWISE:
1. TOP OF SLAB EL. 132'-0". TOP OF STEEL EL. 131'-7 1/4".
2. FLOOR SYSTEM TO CONSIST OF L.W. CONCRETE ON 1.5VL18 COMPOSITE METAL DECKING. TOTAL FLOOR THICKNESS 4 3/4" ON 1 1/2" METAL DECK. REINFORCE SLAB WITH 1 LAYER 6x6-W2.1xW2.1 W.W.F. LOCATED 1" BELOW TOP OF SLAB.
3. W16x26(36) - INDICATES W16x26 WITH (36)-3/4"ø x3 1/2" H.C.A. EQUALLY SPACED ALONG CENTER OF BEAM (FIELD INSTALLED).
4. ⊢B⊣ - INDICATES LATERAL BRACING. SEE ELEVATIONS.

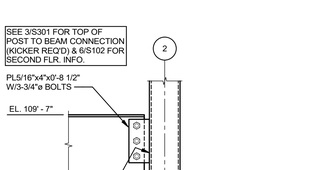
2 S102 MECH PLATFORM FRAMING PLAN
1/8" = 1'-0"

N

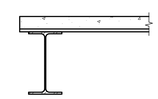


11 S102 SECTION
1" = 1'-0"





10 S102 SECTION
1" = 1'-0"



12 S102 SECTION
1" = 1'-0"

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STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
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12/10/2025	85% CDS
01/19/26	100% CDS

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ENGINEER _____ REG. NO.

STATE OF LOUISIANA
JONATHAN A SOFRANKO
REG. No. 28228
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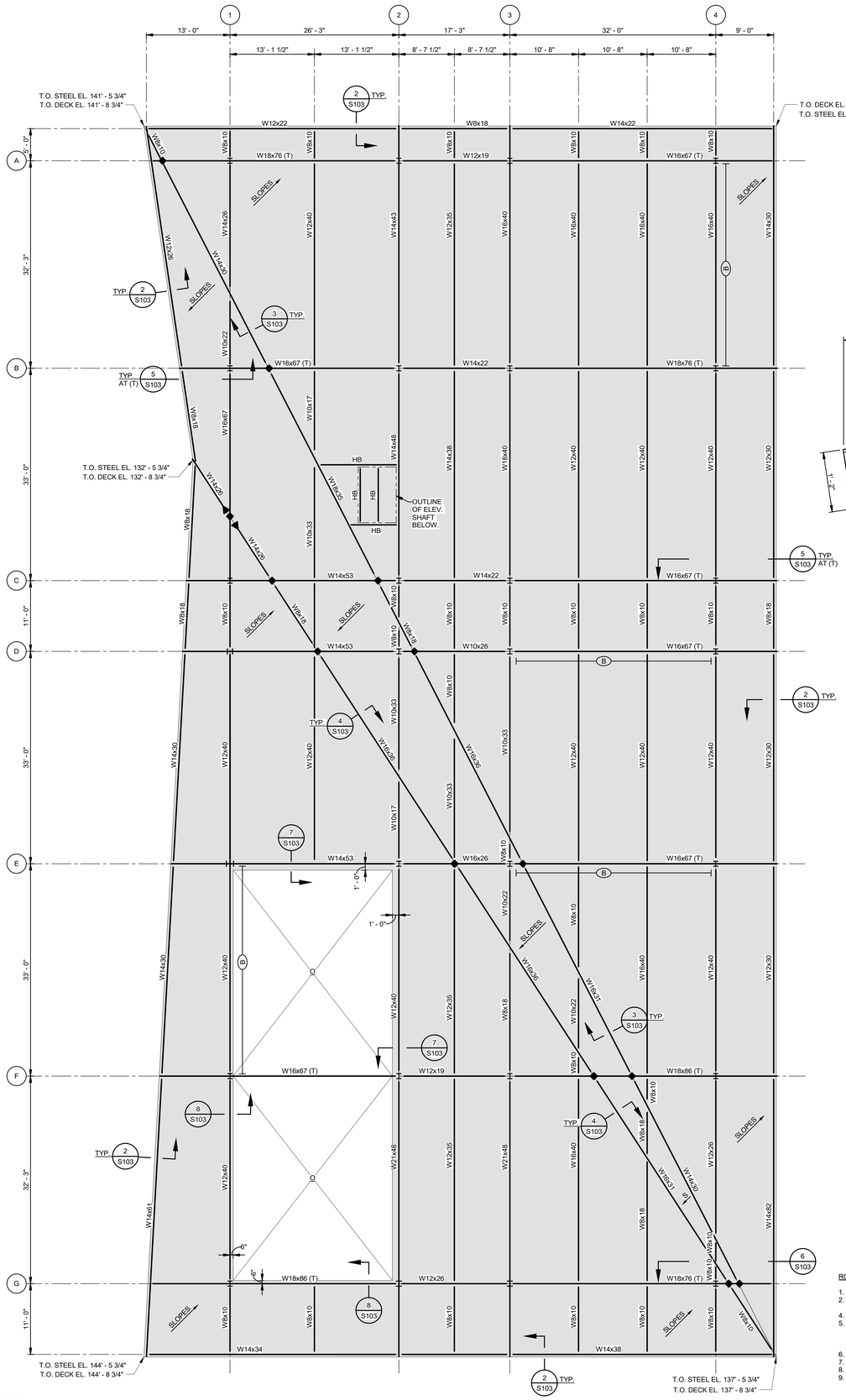
01-19-26

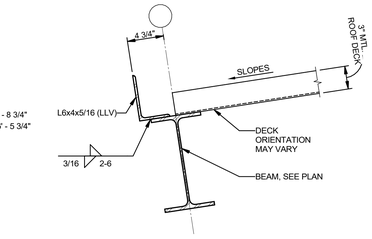
WDG Project No:

SHEET NAME

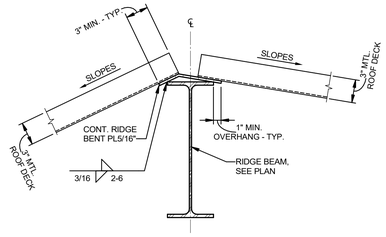
SECOND FRAMING PLAN

SHEET NO. S102

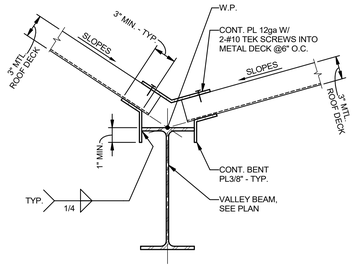




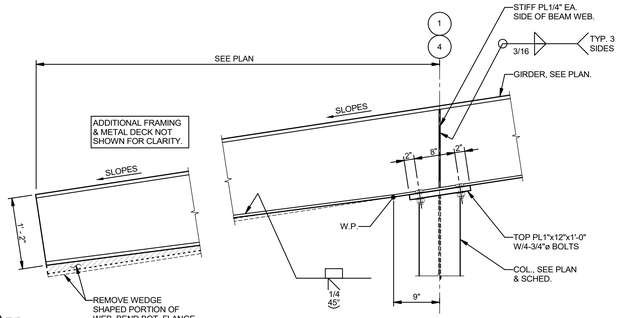
2 SECTION
S103 1 1/2" = 1'-0"



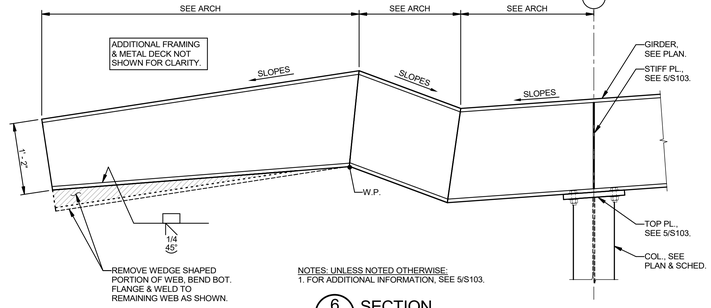
3 SECTION
S103 1 1/2" = 1'-0"



4 SECTION
S103 1 1/2" = 1'-0"

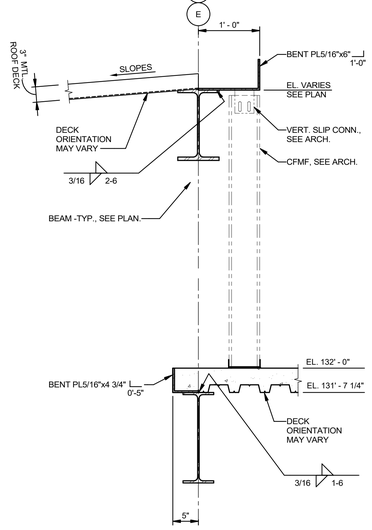


5 SECTION
S103 1" = 1'-0"



NOTES: UNLESS NOTED OTHERWISE:
1. FOR ADDITIONAL INFORMATION, SEE 5/S103.

6 SECTION
S103 1" = 1'-0"



7 SECTION - INTERIOR CONDITION AT MECH WELL
S103 1" = 1'-0"

8 SECTION - EXTERIOR CONDITION AT MECH WELL
S103 1" = 1'-0"

ROOF PLAN NOTES: UNLESS NOTED OTHERWISE:

1. TOP OF STEEL EL. VARIES, SEE PLAN.
2. ROOF SYSTEM TO CONSIST OF 3N18 METAL ROOF DECKING, SEE ARCHITECTURAL DRAWINGS FOR INSULATION AND ROOFING ON TOP OF DECKING.
4. ◀▶ - INDICATES MOMENT CONNECTION. SEE TYPICAL DETAILS.
5. ⊠ ⊗ - INDICATES FLOOR PENETRATIONS FOR HVAC, PLUMBING, ELECTRICAL, ETC. COORDINATE LOCATIONS WITH RESPECTIVE CONSULTANT. PENETRATIONS TO BE CAST WITH SLAB, DO NOT CORE-DRILL OR SAW-CUT. PENETRATIONS AFTER THE FLOOR IS CAST.
6. ⊢(B)⊣ - INDICATES LATERAL BRACING. SEE ELEVATIONS.
7. ◆ - INDICATES FULL PEN MITER JOINT. WEB & BOTH FLANGES.
8. (T) - INDICATES END OF GIRDER TO BE TAPERED. SEE S/S103.
9. HB - INDICATES W8x24 ELEVATOR HOIST BEAM FRAMING, PLACED 3" CLEAR OF ROOF DECK ABOVE. COORDINATE LOCATION WITH ELEVATOR MANUF.

1 ROOF FRAMING PLAN
S103 1/8" = 1'-0"

N

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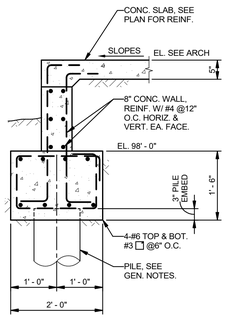
01-19-26

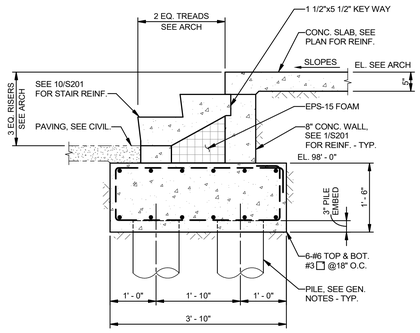
WDG Project No:

SHEET NAME
ROOF FRAMING PLAN

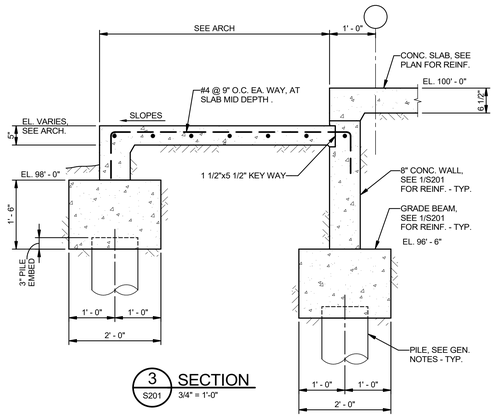
SHEET NO.
S103



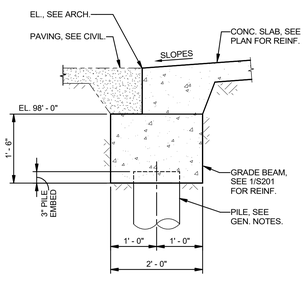
1 SECTION
S201 3/4" = 1'-0"



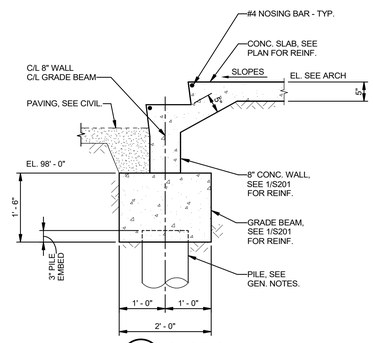
2 SECTION
S201 3/4" = 1'-0"



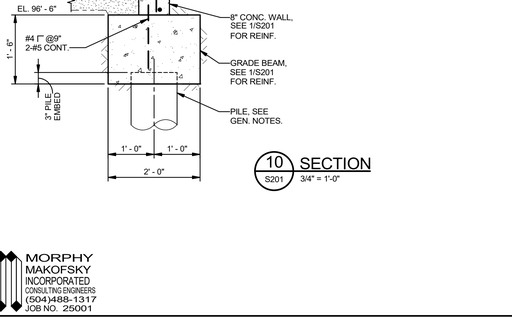
3 SECTION
S201 3/4" = 1'-0"



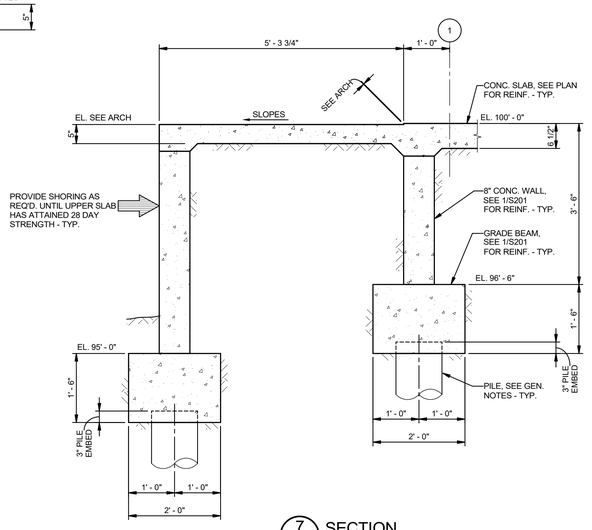
4 SECTION
S201 3/4" = 1'-0"



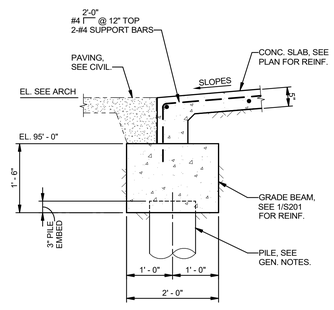
5 SECTION
S201 3/4" = 1'-0"



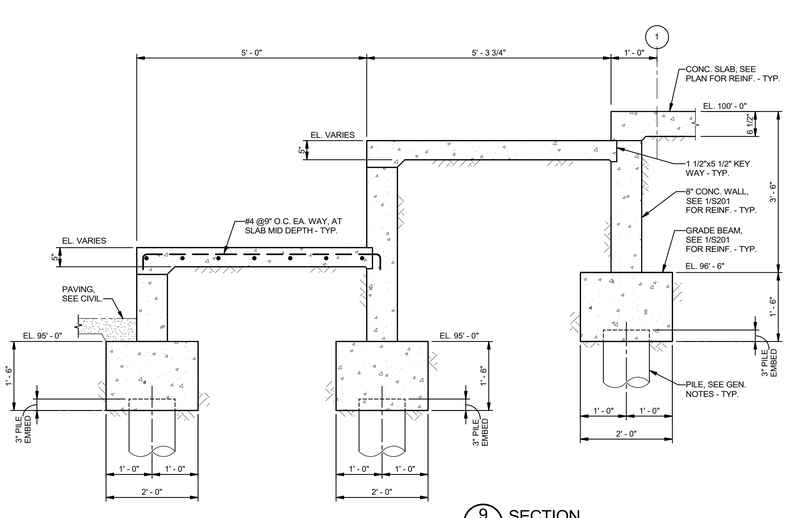
6 SECTION
S201 1" = 1'-0"



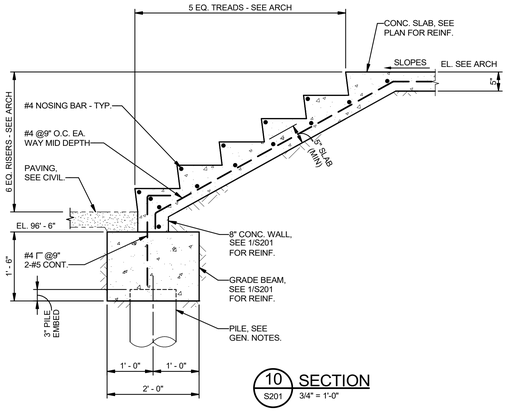
7 SECTION
S201 3/4" = 1'-0"



8 SECTION
S201 3/4" = 1'-0"



9 SECTION
S201 3/4" = 1'-0"



10 SECTION
S201 3/4" = 1'-0"

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REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

01-19-26

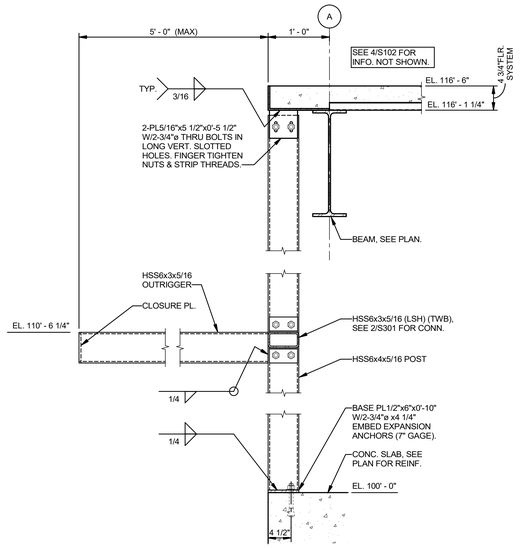
WDG Project No:

SHEET NAME

FOUNDATION SECTIONS & DETAILS

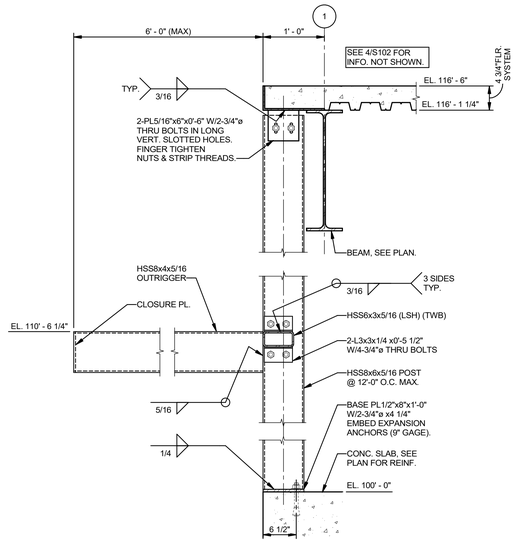
SHEET NO.

S201



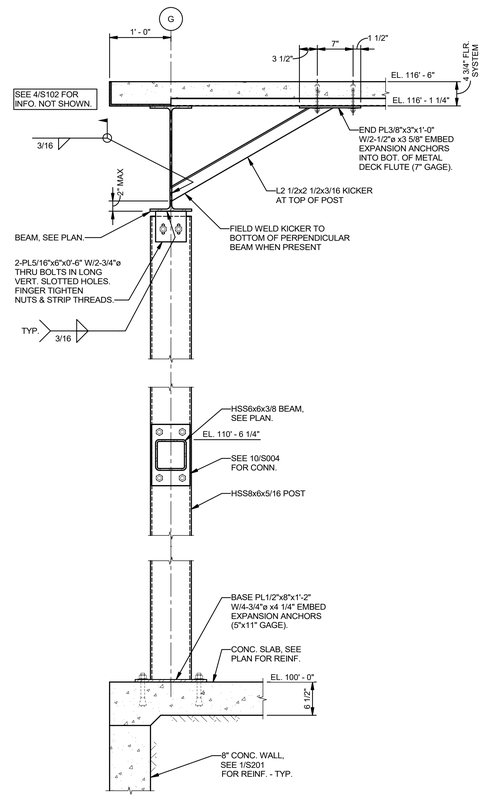
NOTES: UNLESS NOTED OTHERWISE:
1. OUTRIGGER & CONNECTION TO POST MAY BE REVISED AT CONTRACTORS OPTION. CANOPY MANUF. TO SUBMIT SIGNED & SEALED CALCULATIONS & SHOP DRAWINGS.

1 S301 SECTION
1" = 1'-0"

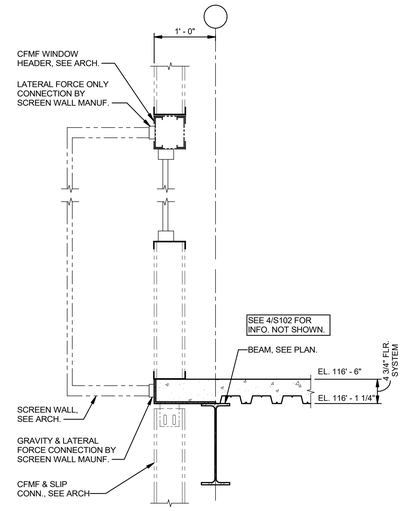


NOTES: UNLESS NOTED OTHERWISE:
1. OUTRIGGER & CONNECTION TO POST MAY BE REVISED AT CONTRACTORS OPTION. CANOPY MANUF. TO SUBMIT SIGNED & SEALED CALCULATIONS & SHOP DRAWINGS.

2 S301 SECTION
1" = 1'-0"



3 S301 SECTION
1" = 1'-0"



NOTES: UNLESS NOTED OTHERWISE:
1. G.C. TO COORDINATE BETWEEN SUBS & DELEGATED DESIGNERS.

4 S301 DETAIL - TYPICAL SCREEN WALL CONNECTIONS
1" = 1'-0"

WILLARD DESIGN GROUP
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01-19-26

WDG Project No:

SHEET NAME
FRAMING SECTIONS & DETAILS

SHEET NO. S301

MORPHY MAKOFSKY INCORPORATED
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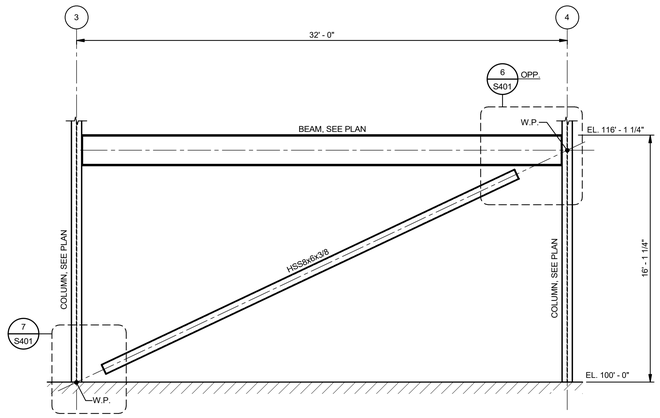
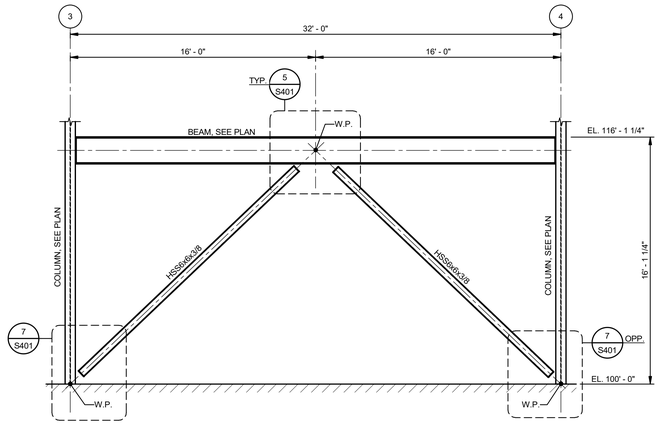
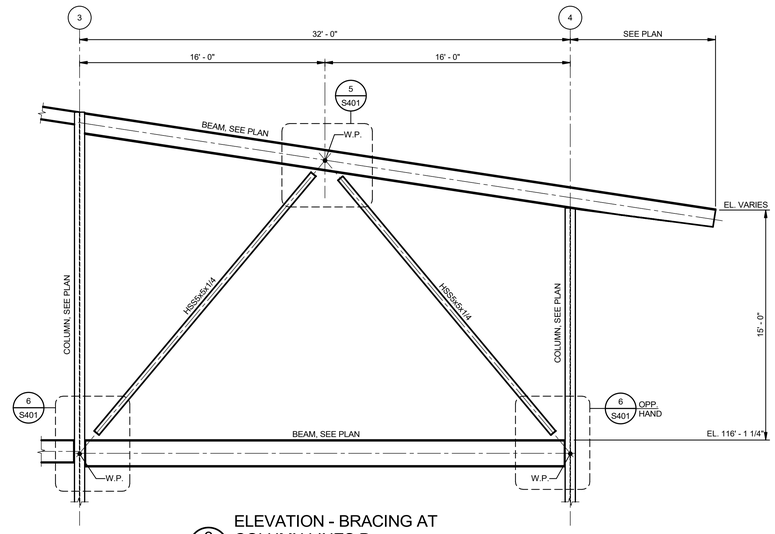
JOB NO. 25001



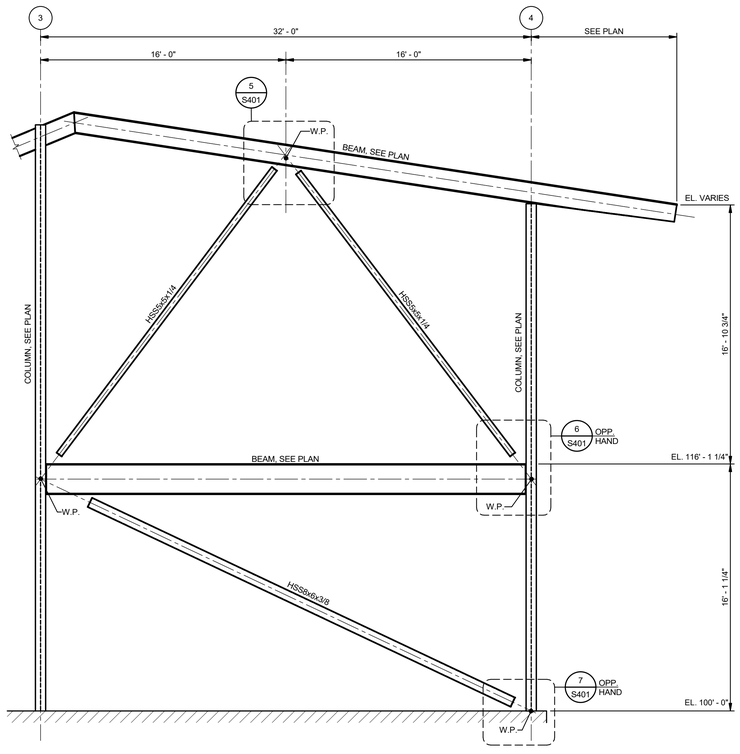
1 S401 ELEVATION - BRACING AT COLUMN LINES B
1/4" = 1'-0"



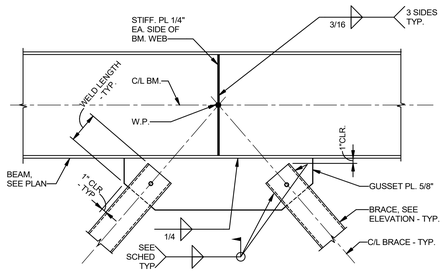
2 S401 ELEVATION - BRACING AT COLUMN LINE C & F
1/4" = 1'-0"



3 S401 ELEVATION - BRACING AT COLUMN LINES D
1/4" = 1'-0"



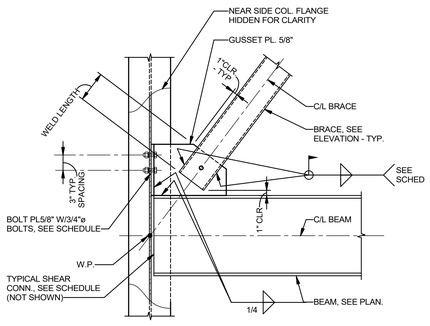
4 S401 ELEVATION - BRACING AT COLUMN LINE E
1/4" = 1'-0"



BRACE	FILLET WELD	WELD LENGTH
HSS5x5x1/4	3/16	6"
HSS6x6x3/8	1/4	12"
ALL OTHER	1/4	8"

NOTE: UNLESS NOTED OTHERWISE:
1. CONCRETE AND/OR METAL DECK NOT SHOWN FOR CLARITY.

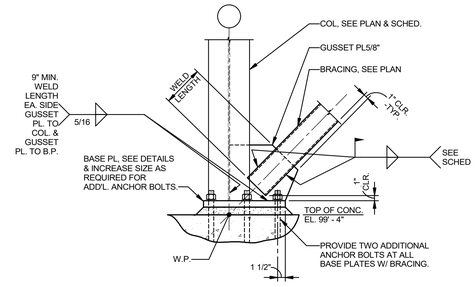
5 S401 DETAIL
1" = 1'-0"



BRACE	FILLET WELD	WELD LENGTH	TOTAL QTY. 3/4"ø BOLTS
HSS5x5x1/4	3/16	6"	4
ALL OTHER	1/4	8"	6

NOTE: UNLESS NOTED OTHERWISE:
1. CONCRETE AND/OR METAL DECK NOT SHOWN FOR CLARITY.

6 S401 DETAIL
1" = 1'-0"



BRACE	FILLET WELD	WELD LENGTH
HSS6x6x3/8	1/4	12"
ALL OTHER	1/4	8"

NOTE: UNLESS NOTED OTHERWISE:
1. CONCRETE AND/OR METAL DECK NOT SHOWN FOR CLARITY.

7 S401 DETAIL
1" = 1'-0"

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01/19/26	100% CDS

REVISIONS

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL CBC REQUIREMENTS. I AM GENERALLY ADMINISTERING THE WORK.

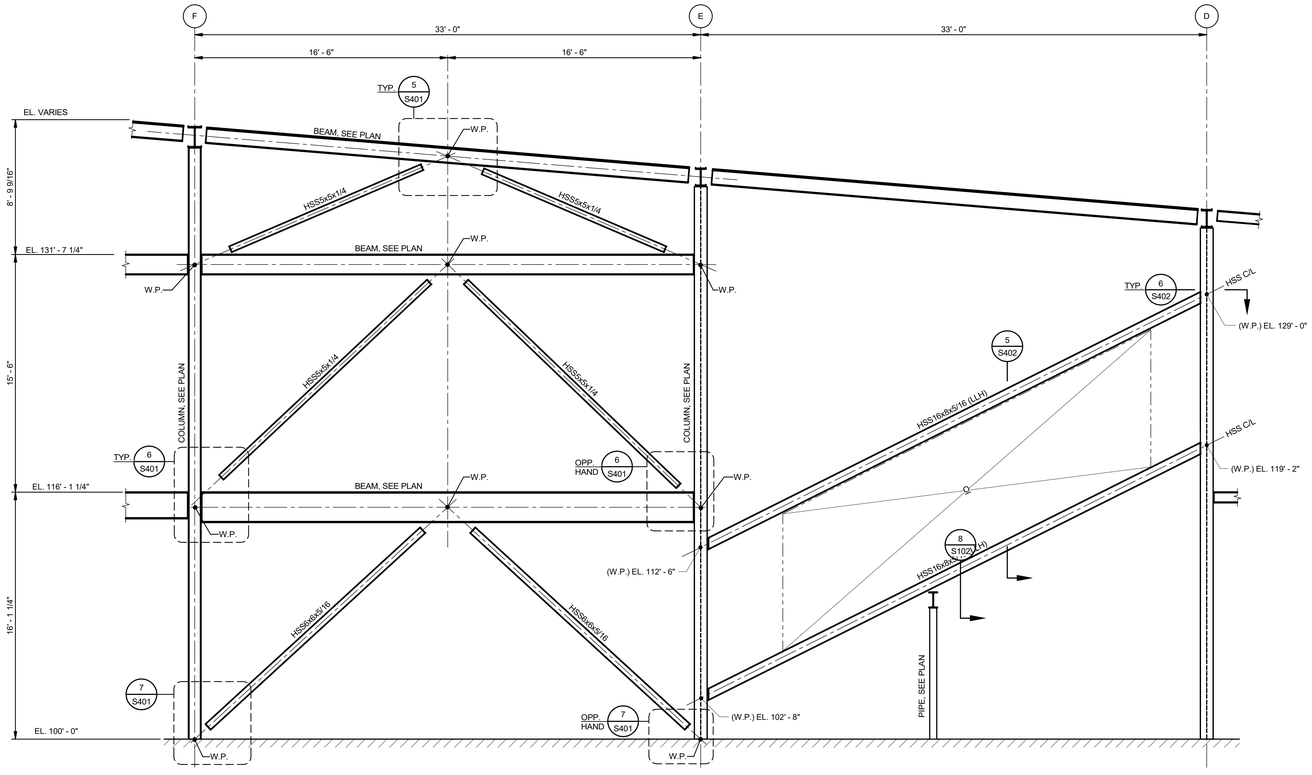
ENGINEER — JONATHAN A. SOFRANKO
REG. NO. — REG. No. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
STATE OF LOUISIANA
01-19-26

WDG Project No:

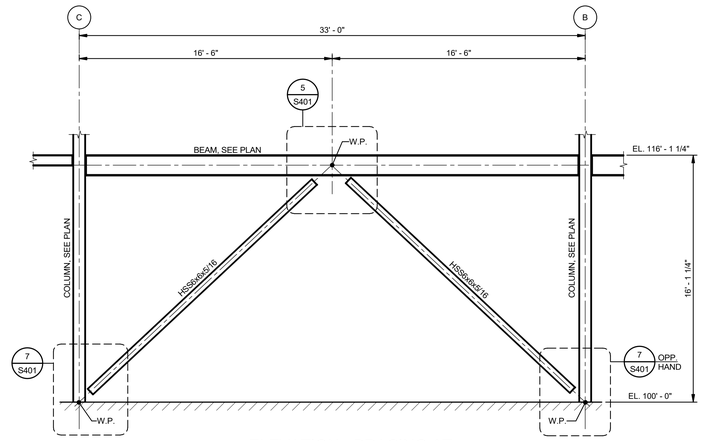
SHEET NAME

FRAMING ELEVATIONS

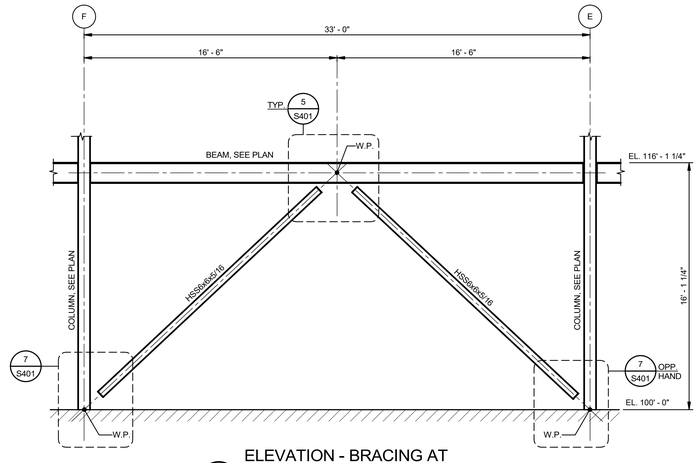
SHEET NO. S401



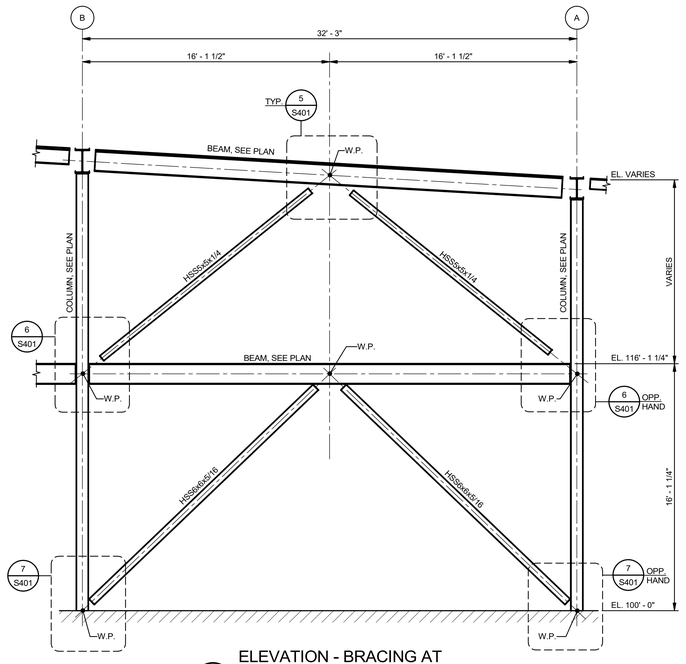
1 S402 ELEVATION - BRACING AT COLUMN LINES 1
1/4" = 1'-0"



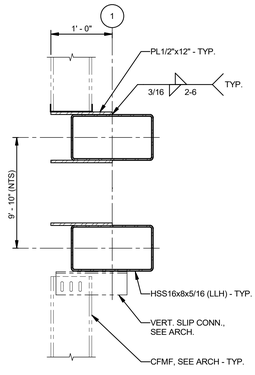
2 S402 ELEVATION - BRACING AT COLUMN LINES 1
1/4" = 1'-0"



3 S402 ELEVATION - BRACING AT COLUMN LINES 4
1/4" = 1'-0"

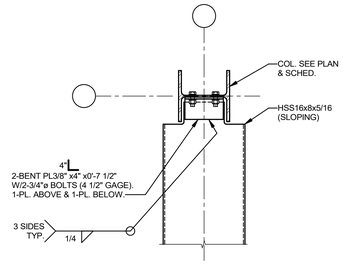


4 S402 ELEVATION - BRACING AT COLUMN LINES 4
1/4" = 1'-0"



NOTES: UNLESS NOTED OTHERWISE:
1. FOR ADDITIONAL INFORMATION, SEE ELEVATION 1/S402.
2. SEE 4/S301 (SIM.) FOR SCREEN WALL CONNECTION.

5 S402 SECTION
1" = 1'-0"



6 S402 PLAN DETAIL
1" = 1'-0"

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA - SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

PERMIT SET

DRAWING ISSUE

DATE	ISSUED FOR
10/08/2025	GMP SET
12/10/2025	85% CDS
01/19/26	100% CDS

REVISIONS

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ENGINEER _____ REG. NO.

STATE OF LOUISIANA
JONATHAN A SOFRANKO
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01-19-26

WDG Project No:

SHEET NAME

FRAMING ELEVATIONS

SHEET NO.

S402

CITY OF NEW ORLEANS
ONE STOP
PERMITS & LICENSES

Building/Construction Related Permit

Date _____ Received by _____
Tracking Number _____

DEVELOPMENT PLAN AND DESIGN REVIEW APPLICATION

Please submit complete applications via email to CPCinfo@nola.gov. Applicants without the ability to submit via email should contact (504) 658-7300 to make alternative arrangements. Incomplete applications will not be accepted and will be returned to the applicant. Review time depends on the complexity of the project and can take up to 90 days.

Type of application: (•) Design Review ( ) Interim Zoning Districts Appeal ( ) Moratorium Appeal

Property Location 6800 Plaza Drive, New Orleans, LA 70127

APPLICANT INFORMATION

Applicant Identity: ( ) Property Owner (•) Agent

Applicant Name Dominic Willard, Jr.

Applicant Address 4455 Saint Roch Ave

City New Orleans State LA Zip 70122

Applicant Contact Number 504-812-1982 Email daw@willarddesigngroup.com

PROPERTY OWNER INFORMATION

SAME AS ABOVE [ ]

Property Owner Name Center for Innovative Training of Youth, Inc. d/b/a STEM NOLA

Property Owner Address 4910 Drexel Drive

City New Orleans State LA Zip 70122

Property Owner Contact Number 504-920-3335 Email bgrubb@pagellc.net

PROJECT DESCRIPTION

REASON FOR REVIEW (REQUIRED FOR DESIGN REVIEW)

Design Overlay District Review
- [ ] Character Preservation Corridor
- [ ] Riverfront Design Overlay
- [ ] Enhancement Corridor
- [ ] University Area Design Overlay
- [x] Corridor Transformation
- [ ] Greenway Corridor
- [ ] Others as required

Non-Design Overlay District Review
- [ ] Development over 40,000 sf
- [ ] Public Market
- [ ] CBD FAR Bonus
- [ ] Wireless Antenna/Tower
- [ ] Educational Facility

- [ ] Changes to Approved Plans
- [ ] DAC Review of Public Projects
- [ ] Others as Required

ADDITIONAL INFORMATION

Current Use Vacant Land Proposed Use Business Office

Square Number _____ Lot Number 3E-2 Permeable Open Space (sf) 38,372

New Development?	Yes ( )	No ( )	Addition?	Yes ( )	No (•)	Tenant Width		
Existing Structure(s)?	Yes ( )	No (•)	Renovations?	Yes ( )	No (•)	Building Width	78'	
Change in Use?	Yes ( )	No (•)	Existing Signs?	Yes ( )	No (•)	Lot Width (sf)	258'	
New Sign(s)?	Yes (•)	No ( )	Lot Area (sf)	79,520		BuildingArea (sf)	26,125	

CITY OF NEW ORLEANS
ONE STOP
PERMITS & LICENSES

Building/Construction
Related Permit

Date _____ **Received by**_____

Tracking Number _____

DEVELOPMENT PLAN AND DESIGN REVIEW APPLICATION

REQUIRED ATTACHMENTS (One digital copy)

1. SITE PLAN

- ○ North arrow, scale, and date of plan
- ○ Location, dimensions, and area of permeable open space
- ○ Name, address of the professional who prepared the plan
- ○ Legend of symbols, patterns, and abbreviations used
- ○ The entire lot(s), including area and property lines dimensioned (including gross area of the site)
- ○ Curb cuts, interior streets, driveways, and parking and loading areas with dimensions and total area (sf)
- ○ Location and dimensions of buildings and structures, including total floor area and distance from property lines
- ○ Location of adjacent buildings
- ○ Location of refuse storage locations
- ○ Proposed right-of-way improvements including sidewalks and plantings, and pedestrian walkways
- ○ Fence location, height, and materials

2. FLOOR PLAN

- ○ Indicating the dimensions and square footage of proposed development
- ○ Room use
- ○ Location of all walls, doors, and windows
- ○ Location of all plumbing fixtures
- ○ Location of major appliances/mechanical equipment
- ○ Stairway location
- ○ Firewall location (if applicable)

3. ARCHITECTURAL ELEVATIONS

- ○ Architectural elevations of each side of the proposed structure drawn to scale indicating height, ground floor ceiling, ground floor transparency, architectural elements, materials, colors, and textures proposed for any structures.

4. LIGHTING PLAN

- ○ Location of all exterior lighting, including those mounted on poles and walls
- ○ Types, style, height, and the number of fixtures
- ○ Manufacturer's illustrations and specifications of fixtures

5. SIGNAGE PLAN

- ○ Proposed Signage with overall height, width, and materials
- ○ Building Elevation (including building width and height)
- ○ Site plan showing the location of all proposed detached sign(s) along with setback dimensions.

6. LANDSCAPE PLAN

- ○ Name and address of professional who prepared the plan.
- ○ Landscape plans shall be prepared by a registered landscape architect licensed by the Louisiana Horticulture Commission
- ○ All landscape plans shall meet the minimum requirements of site plans
- ○ Legend defining all symbols, patterns, and abbreviations used
- ○ Location, quantity, size, name, and condition (both botanical and common) of all existing and proposed plant materials and trees.
- ○ Description of all tree preservation measures on-site and in the public right-of-way
- ○ Width, depth, and area of landscaped area(s)
- ○ Proposed right-of-way improvements and pedestrian walkways

Planting proposed in the right-of-way must have Parks and Parkways approval

7. PHOTOS

- ○ Photographs of the subject site and/or building

8. NARRATIVE

- ○ Narrative addressing compliance with applicable Comprehensive Zoning Ordinance requirements and design goals

9. COLOR ELEVATIONS/RENDERING (DAC ONLY)

- ○ Color elevations and/or renderings are required for projects that trigger review by the Design Advisory Committee

10. SUPPLEMENT 'A' (UNIVERSITY AREA DESIGN OVERLAY)

- ○ Additional submittal requirements for the University Area Design Overlay

FEES

Design Review	$225
CBD Demolitions	$500
Moratorium Appeals	$1,000