JOE BROWN PARK CAROUSEL ENCLOSURE

5601 READ BLVD. NEW ORLEANS, LA 70127

SHEET LEGEND: ARCHITECTURAL

DRAWING NO.
1 SIM A101 — SECTION REFERENCE
SHEET NO.

DRAWING NO.
Ref 1 A101 1 Ref — ELEVATION REFERENCE
SHEET NO.

1 Ref — DRAWING NO.
A101 — INTERIOR ELEVATION REFERENCE
1 Ref — SHEET NO.

Room name
101
CLG: Ceiling Height — ROOM TAG, RE. SCHED.

Room name
101
Ceiling Material
Wall Material
Floor Material — ROOM FINISH TAG, RE. SCHED.

1A — WALL TAG. RE: SCHEDULES
1t — WINDOW TAG. RE: SCHEDULES
101 — DOOR TAG. RE: SCHEDULES
1 — REVISION NUMBER
XX-# — SELECTION TAG. RE. SCHED.
▭ — WOOD THRESHOLD

ABBREVIATIONS

A/C	AIR CONDITIONING	HVAC	HEATING,VENTILATION,& A/C
A.F.F.	ABOVE FINISHED FLOOR	H.W.	HOT WATER HEATER
A.F.G.	ABOVE FINISHED GRADE	I.A.W.	IN ACCORDANCE WITH
ALT.	ALTERNATE	INSUL.	INSULATION
BDB	BEADED-BOARD	INT.	INTERIOR
BLDG.	BUILDING	MFR	MANUFACTURER
CL	CENTERLINE	MAX.	MAXIMUM
CLG	CEILING	MECH.	MECHANICAL
CLR	CLEARANCE	MIN.	MINIMUM
CMU	CONCRETE MASONRY UNIT	N.I.C.	NOT IN CONTRACT
CONC.	CONCRETE	N.T.S.	NOT TO SCALE
CONT.	CONTINUOUS	O.C.	ON CENTER
C.J.	CONTROL JOINT	PLUMB.	PLUMBING
COORD.	COORDINATE	PT	PAINT
DECOR.	DECORATIVE	PLY.	PLYWOOD
DTL.	DETAIL	PL	PROPERTY LINE
DIAM.	DIAMETER	PTL	PRESSURE TREATED WOOD
DIM.	DIMENSION	PRIM.	PRIMARY
DN	DOWN	P.V.	PHOTOVOLTAIC
D.S.	DOWNSPOUT	RE.	REFERENCE
ELEC.	ELECTRICAL	REQ.	REQUIRED
ELEV.	ELEVATION	R.D.	ROOF DRAIN
EQ	EQUAL	RM	ROOM
EQUIP.	EQUIPMENT	SCHED.	SCHEDULE
E.J.	EXPANSION JOINT	SECT.	SECTION
EXT.	EXTERIOR	SIM.	SIMILAR
E.T.R.	EXISTING TO REMAIN	SHTG.	SHEATHING
F.B.O.	FURNISHED BY OWNER	SPEC.	SPECIFIED
F.D.	FLOOR DRAIN	STRUC.	STRUCTURAL
FLASH.	FLASHING	TEM.	TEMPERED
FLR	FLOOR	THK	THICK
FIN.	FINISH	T&G	TONGUE & GROOVE
F.F.L.	FINISHED FLOOR LEVEL	TYP.	TYPICAL
GC	GENERAL CONTRACTOR	VERT.	VERTICAL
GYP.	GYPSUM BOARD	V.I.F.	VERIFY IN FIELD
HT.	HEIGHT	W/	WITH
HOR.	HORIZONTAL	WDW	WINDOW
HR	HOUR	WC	WATER CLOSET

HATCH INDICATES
PROJECT LOCATION
(5601 READ BLVD)

KEY PLAN

SCALE: N.T.S.

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SCOPE OF WORK

THE PROPOSED PROJECT IS A NEW CAROUSEL ENCLOSURE IN JOE W. BROWN PARK. THE ENCLOSURE IS TO INCLUDE A FULL-SCALE, OPERATIONAL CAROUSEL, A CONCESSION AND TICKETS STAND (WITH A NEW HAND SINK), AND SEATING AREAS BOTH INSIDE AND OUTSIDE OF THE CAROUSEL ENCLOSURE. THE CAROUSEL INCLUDES A ROOF AND WALLS TO PROTECT FROM THE ELEMENTS AND FOR SECURITY, BUT IS NOT AN AIR-TIGHT ENCLOSURE.

NEW ELECTRICAL AND PLUMBING SERICE ARE TO BE RUN TO THE CAROUSEL ENCLOSURE

SQUARE FOOTAGES

PROPOSED

INSIDE OF ENCLOSURE: 2,445 SQ.FT.
EXTERIOR PLATFORM: 3,307 SQ.FT.

TOTAL UNDER BEAM: 5,752 SQ.FT.

ZONING INFORMATION

MUNICIPAL DISTRICT: 3
SQUARE / BLOCK: N/A
LOT: N/A
PARISH: ORLEANS
ZONING DISTRICT: OS-R
SITE AREA: 2,347,622 SQ.FT.

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No.	Description	Date

23 APR. 2025	**SK-1**
02 APR. 2025	**CD-100**
28 FEB. 2025	**CD-99**
17 JAN. 2025	**CD-85**
31 OCT. 2024	**SD-1**
07 OCT. 2024	**EC-1**

Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

COVER SHEET & GENERAL PROJECT INFO

ALEXANDER JAMES ADAMICK
REG. NO. 8148

DATE:	4/23/2025 8:55:28 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	T001
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PROJECT GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NEW ORLEANS CITY BUILDING CODE, FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND THE BEST TRADE PRACTICES.
2. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE DEPARTMENT OF BUILDINGS, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY GOVERNING ORLEANS PARISH AGENCIES.
3. THIS AGREEMENT BETWEEN OWNER AND ARCHITECT DOES NOT INCLUDE CONSTRUCTION PHASE SERVICES UNLESS OTHERWISE NOTED. ACCEPTANCE OF THESE DRAWINGS BY THE OWNER SIGNIFIES THEIR AGREEMENT THAT THE OWNER SHALL BE SOLELY RESPONSIBLE FOR INTERPRETING THESE DRAWINGS AND OBSERVING THE WORK OF THE CONTRACTOR TO DISCOVER, CORRECT OR MITIGATE ERRORS, INCONSISTENCIES AND OMISSIONS, AND THAT IF THE OWNER AUTHORIZES DEVIATIONS, RECORDED OR UNRECORDED, FROM PLANS PREPARED BY THE ARCHITECT, THE OWNER SHALL NOT BRING ANY CLAIM AGAINST THE ARCHITECT AND SHALL FULLY INDEMNIFY AND HOLD THE ARCHITECT, ITS PARTNERS, ASSOCIATES AND EMPLOYEES HARMLESS FROM AND AGAINST CLAIMS, LOSSES, DAMAGES AND EXPENSES, INCLUDING BUT NOT LIMITED TO DEFENSE COSTS AND THE TIME OF THE ARCHITECT, TO THE EXTENT THAT SUCH CLAIM, LOSS, DAMAGE OR EXPENSE ARISES OUT OF OR RESULTS IN WHOLE OR IN PART FROM SUCH DEVIATIONS, REGARDLESS OF WHETHER OR NOT SUCH CLAIM, LOSS, DAMAGE OR EXPENSE IS CAUSED IN PART BY A PARTY INDEMNIFIED UNDER THIS PROVISION.
4. ALL CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING THE ARCHITECT / BUILDING OWNER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES PRIOR TO BIDDING THE PROJECT.
5. CONTRACTOR SHALL ASK FOR DETAILS WHENEVER UNCERTAIN ABOUT METHODS OF INSTALLATION. LACK OF DETAILS NOT REQUESTED SHALL NOT EXCUSE IMPROPER INSTALLATION, AND CORRECTION SHALL BE MADE THE RESPONSIBILITY OF THE CONTRACTOR.
6. THESE DRAWINGS ARE COMPLEMENTARY TO ONE ANOTHER. WHAT IS CALLED FOR BY ONE SHALL BE BINDING AS IF CALLED FOR BY ALL AND ALL PARTIES INVOLVED SHALL BECOME FAMILIAR WITH ALL SHEETS OF DRAWINGS AND SPECIFICATIONS (IF ANY) AND NOT SIMPLY THEIR OWN WORK IN ORDER TO FULLY UNDERSTAND AND DEVELOP THE CONSTRUCTION.
7. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.
8. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF LOCAL AUTHORITIES AND BUILDING MANAGEMENT.
9. NO WORK SHALL BE CONCEALED UNTIL APPROVED BY REGULATORY INSPECTORS.
10. ALL CONSTRUCTION SHALL COMPLY WITH CITY, STATE AND NATIONAL CODES AS REQUIRED.
11. CONTRACTOR TO WARRANTEE ALL WORK FOR ONE YEAR.
12. SITE SHALL BE LEFT NEAT DAILY. PROVIDE COMPLETE CLEAN UP ON A WEEKLY BASIS. NO TRASH STORED IN BUILDING. PROPER DISPOSAL REQUIRED.
13. OWNER SHALL PAY FOR ALL WATER AND POWER USED TOWARD CONSTRUCTION, FROM EXISTING SOURCES.
14. ALL EXISTING MEANS OF EGRESS FOR TENANTS OF THE BUILDING TO BE MAINTAINED CLEAR AND FREE OF ALL OBSTRUCTIONS, SUCH AS BUILDING MATERIALS, TOOLS, ETC.
15. ALL BUILDING MATERIALS STORED AT CONSTRUCTION AREA, AND/OR IN ANY AREA OF THE BUILDING ARE TO BE SECURED IN A LOCKED AREA. ACCESS TO SUCH AREAS TO BE CONTROLLED BY OWNER AND/OR GENERAL CONTRACTOR.
16. DEBRIS, DIRT, AND DUST TO BE KEPT TO A MINIMUM, AND BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA; AND BE CLEANED UP AND CLEARED FROM BUILDING PERIODICALLY TO AVOID ANY EXCESSIVE ACCUMULATION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA, INCLUDING AFTER HOURS.
18. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.
19. CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL CHANGES AND SHALL MARK SAME IN INK ON A SEPARATE, CLEAN SET OF THESE DRAWINGS DURING THE CONSTRUCTION, INCLUDING LOCATION OF ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL FURNISH OWNER AND ARCHITECT EACH A COPY OF THIS RECORD BEFORE FINAL COMPLETION AND ACCEPTANCE IS RECORDED.
20. THE CONTRACTOR SHALL LAY OUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER TRADES (PLUMBING, ELECTRICAL,MECHANICAL, ETC.).
21. FINISH SUBMITTALS - FOR PURPOSES OF ABSOLUTE CONFIRMATION, THE CONTRACTOR SHALL SUBMIT TWO "FINISH SAMPLE SUBMITTALS" FOR ANY/ALL ITEM(S) THAT NEEDS AND/OR HAS/HAVE A CHOICE OF FINISH OR COLOR TO BE SELECTED AS WELL AS ANY/ALL ITEM(S) LISTED ON THE DRAWINGS OR SPECIFICATIONS REQUIRING THAT FINISHES BE SELECTED BY THE ARCHITECT OR OWNER. THE FIRST SAMPLE(S) WILL BE RETURNED AND SIGNED "APPROVED" INITIALED, AND DATED BY THE ARCHITECT ONLY WHEN THAT FINISH HAS BEEN APPROVED. THE OTHER SAMPLE(S) WILL BE USED AS A CONTROL SAMPLE. THE FINISH SAMPLE SUBMITTAL MUST BE SIGNED "APPROVED", INITIALED AND DATED BEFORE THAT ITEM IS CONSIDERED APPROVED BY THE ARCHITECT.
22. THE PLUMBING, MECHANICAL, AND ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND REQUIRED SIGN-OFFS.
23. THE CONTRACTOR SHALL DO ALL CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.
24. THE CONTRACTOR, UPON COMPLETION OF THE WORK, SHALL APPLY FOR DEPARTMENT OF BUILDINGS INSPECTIONS AND SIGN-OFFS AS REQUIRED.
25. ALL DIMENSIONS ARE TO FACE OF FINISH, CENTER OF COLUMNS AND FENESTRATION, OR TO FACE OF BRICK AND EXTERIOR FACE OF EXTERIOR STUDS, UNLESS OTHERWISE NOTED ON THE DRAWINGS. WHEN DIMENSIONS ARE TO AN EXISTING WALL, COLUMN OR FENESTRATION, ALL DIMENSIONS SHALL BE FROM THE FACE OF EXISTING FINISH, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
26. ALL PIPING AND WIRING SHALL BE REMOVED TO A POINT OF CONCEALMENT AND SHALL BE PROPERLY CAPPED OR PLUGGED.
27. AIR CONDITIONING WILL CONFORM TO IBC & NFPA. PROVIDE MANUAL RESET FIRESTAT (SETTING NOT TO EXCEED 136 DEGREES FAHRENHEIT) IN RETURN AIR A/C STREAMS.
28. ALL ELECTRICAL WORK SHALL BE IN STRICT ACCORDANCE WITH NATIONAL ELECTRICAL CODE, OSHA, STATE AND LOCAL REGULATIONS AND ORDINANCE ARS 40-1603.
29. ALL LIGHTING FIXTURES TO BE SELECTED BY OWNER AND INSTALLED BY CONTRACTOR, UNLESS NOTED IN FIXTURE SCHEDULE.
30. ALL MATERIALS SHALL BE NEW AND U.L. APPROVED UNLESS SPECIFICALLY DESIGNATED OTHERWISE.
31. CAULKING ON EXTERIOR SHALL BE TOP QUALITY SILICONE CAULK.
32. PAINT GRADE TO BE SHERWIN WILLIAM EMERALD INTERIOR OR EQUIVALENT. ALL WORK TO RECEIVE THREE (3) COATS. PAINT FINISH TO BE EGG-SHELL ON WALLS AND CEILINGS AND SEMI-GLOSS ON TRIM, UNLESS OTHERWISE SELECTED BY OWNER. COLOR AND FINISH TO BE SELECTED BY OWNER, AND VERIFIED BY CONTRACTOR PRIOR TO CONTRACT SIGNING. ALL PAINT TO BE HIGHEST QUALITY BY THE MANUFACTURER.
33. ALL EXPOSED WOOD TO BE SEALED WITH PREMIUM GRADE WATERPROOF WOOD SEALANT .
34. INTERIOR WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD RATING OF 0-75 AND A SMOKE DEVELOPMENT RATING OF 0-450.
35. NEW 1/2" SHEETROCK LEVEL FOUR (4) FINISH FOR ALL WALLS & 5/8" SHEETROCK LEVEL FOUR (4) FOR CEILING UNLESS SPECIFIED OTHERWISE. CONTRACTOR TO VERIFY EXISTING AND PROPOSED FINISHES OF SHEETROCK SURFACES AND ASCERTAIN WITH OWNER WHETHER TO MATCH EXISTING OR UPGRADE FINISH, AND TO INCLUDE IN ORIGINAL BID AS REQUIRED.
36. ALL BATT INSULATION SHALL HAVE CLASS "A" (0-25) FLAME SPREAD RATING IN COMPLIANCE WITH APPLICABLE CODE. MINIMUM R VALUES TO BE R-13 IN 2X4 STUD WALLS AND R-19 IN 2X6 STUD WALLS, R-13 IN FLOORS, AND R-30 IN CEILINGS.
37. USE 6 INCH STUDS AT PLUMBING WALLS. PROVIDE METAL "SHOES" IN FRAMING TO PROTECT PLUMBING AND ELECTRICAL.
38. PROVIDE A GALVANIZED METAL PAN WITH DRAIN AT A/C EVAPORATOR LOCATIONS AND PVC PAN BENEATH WASHING MACHINES LOCATED ABOVE FIRST FLOOR. CONTRACTOR TO VERIFY LOCATION OF A/C DRIP PAN DRAIN PIPE.
39. PROVIDE A TOP QUALITY INSULATING BLANKET FOR ALL NEW WATER HEATERS. TANKLESS WATER HEATERS SHALL NOT REQUIRED A BLANKET.
40. ALL CORNERS SHALL BE PROPERLY BRACED FOR WIND LOADS. A 48" WIDE SHEET OF PLYWOOD SHEATHING SHALL BE PROVIDED EVERY 20 FEET OF WALL LENGTH.
41. INSTALL BLOCKING AT MID-SPAN WITHIN ALL NEW WALLS THAT HAVE CEILING HEIGHTS GREATER THAN 8'-0".
42. PROVIDE (2) 2X10 HEADERS FOR ALL NEW OPENINGS BETWEEN 3'-0" AND 5'-0" WIDE. PROVIDE (2) 2X8 HEADERS TO ALL NEW OPENINGS LESS THAT 3'-0" WIDE.
43. ALL NEW WOOD FRAMING AND FASTENERS SHALL COMPLY WITH THE WOOD FRAME CONSTRUCTION MANUAL 9WFCM) BY THE AMERICAN FOREST AND PAPER ASSOCIATION.
44. ALL NEW FRAMING LUMBER SHALL BE SOUTHERN YELLOW PINE, S4S, NO. 2 OR BETTER, 15% MAXIMUM MOISTURE CONTENT.
45. NATURAL EXTERIOR WOOD: SHALL BE FULLY CURED, SELECTED FOR STRAIGHTNESS AND QUALITY. MOSTLY FREE OF CHECKS, KNOTS, AND SPLITS AND TREATED WITH PREMIUM DECK SEALER.

PROJECT GENERAL NOTES (CONTINUED)

49. GUARDRAILS: GUARDS SHALL BE AT LEAST 42 INCHES HIGH MEASURED VERTICALLY TO THE TOP OF THE GUARD FROM THE SURFACE ADJACENT THERETO. OPEN GUARDS SHALL HAVE INTERMEDIATE RAILS OR AN ORNAMENTAL PATTERN SUCH THAT A SPHERE 4 INCHES IN DIAMETER SHALL NOT PASS THROUGH ANY OPENING UP TO A HEIGHT OF 36 INCHES AND SUCH THAT A SPHERE 4 3/8" DIAMETER SHALL NOT PASS THROUGH ANY OPENING FROM A HEIGHT OF 36 INCHES TO 42 INCHES.
50. HANDRAILS: HANDRAILS SHALL BE AT LEAST 34 INCHES AND NOT MORE THAN 38 INCHES HIGH, MEASURED ABOVE STAIR TREAD NOSINGS, OR FINISH SURFACES OF RAMP SLOPES. HANDRAILS WITH A CIRCULAR CROSS-SECTION SHALL HAVE AN OUTSIDE DIAMETER OF NOT LESS THAN 1 1/4 INCHES AND NOT MORE THAN 2 INCHES. WHERE THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF NOT LESS THAN 4 INCHES AND NOT GREATER THAN 6 1/4 INCHES WITH A MAXIMUM CROSS-SECTIONAL DIMENSION OF 2 1/4 INCHES AND A MINIMUM CROSS-SECTIONAL DIMENSION OF 1 INCH. EDGES SHALL HAVE A MINIMUM RADIUS OF .01 INCH.
51. TREADS SHALL BE OF UNIFORM DEPTH WITH A MINIMUM DIMENSION OF 11" AND RISER OF UNIFORM HEIGHT WITH A MINIMUM HEIGHT OF 4 INCHES AND A MAXIMUM HEIGHT OF 7 INCHES IN ANY STAIRWAY BETWEEN TWO FLOORS. THERE SHALL BE NO VARIATION EXCEEDING 3/16" INCH IN THE DEPTH OF ADJACENT TREADS OR IN THE HEIGHT OF ADJACENT RISERS AND TOLERANCE BETWEEN THE LARGEST AND SMALLEST RISER OR BETWEEN THE LARGEST AND SMALLEST TREAD SHALL NOT EXCEED 3/8" INCHES IN ANY FLIGHT. TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREAD'S LEADING EDGE.
52. ALL WINDOW UNIT SIZES ARE GIVEN IN ACTUAL FRAME SIZE. CONTRACTOR TO VERIFY ROUGH-OPENING AND INSTALLATION REQUIREMENTS WITH MANUFACTURER.
53. THE CONTRACTOR SHALL GRADE THE SITE AS REQUIRED TO ENSURE PROPER RAIN WATER DRAINAGE AND RUNOFF. NO PART OF THE SITE SHALL BE ALLOWED TO DRAIN ONTO ADJACENT PROPERTIES, NOR SHALL RUNOFF BE ALLOWED TO ACCUMULATE NEXT TO THE EXISTING OR PROPOSED STRUCTURE.
54. SITE FLATWORK (WALKS, DRIVES, ETC..) TO BE 3,000 P.S.I. CONCRETE, 4" TO 6" THICK, WITH 6/6 WELDED WIRE MESH OR AS PER ENGINEER'S DRAWINGS / SPECIFICATIONS.
55. THE ARCHITECT AND ARCHITECTS CONSULTANTS SHALL HAVE NO RESPONSIBILITY OR LIABILITY REGARDING THE IDENTIFICATION, DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE.
56. WHERE FLOOR / CEILING ASSEMBLIES OR COMMON WALL ASSEMBLIES ARE REQUIRED TO HAVE A FIRE RESISTANT RATING, ELECTRICAL FIXTURES, DUCTWORK, AND PLUMBING SHALL BE INSTALLED SUCH THAT THE REQUIRED FIRE RESISTANT RATING IS NOT REDUCED.
57. PROVIDE GALVANIC PROTECTION BETWEEN DIS-SIMILAR METALS.

SMOKE AND CARBON MONOXIDE DETECTION

1. DWELLING UNITS SHALL BE EQUIPPED WITH SMOKE DETECTING DEVICES RECEIVING THEIR PRIMARY POWER FROM THE BUILDING WIRING AND THERE SHALL BE NO SWITCHES IN THE CIRCUIT OTHER THAN THE OVER CURRENT DEVICE PROTECTING THE BRANCH CIRCUIT; PROVIDED, HOWEVER THAT DWELLING UNITS IN EXISTING BUILDINGS MAY, IN THE ALTERNATIVE, BE EQUIPPED WITH BATTERY-OPERATED SMOKE DETECTING DEVICES EXCEPT WHERE SUCH BUILDINGS ARE SUBSTANTIALLY IMPROVED OR ALTERED ON OR AFTER JANUARY 1, 1982.
2. BATTERY OPERATED SMOKE DETECTORS SHALL BE CONSIDERED CAPABLE OF BEING CONVERTED TO AUDIBLE AND VISUAL INDICATION.
3. ALL SMOKE DETECTING DEVICES SHALL BE ACCEPTED PURSUANT TO RULES AND REGULATIONS PROMULGATED BY THE COMMISSIONER, APPROVED BY THE BOARD OF STANDARDS AND APPEALS OR LISTED BY A NATIONALLY RECOGNIZED INDEPENDENT LABORATORY. NO DEVICE SHALL BE DEEMED TO BE IN COMPLIANCE WITH THIS PROVISION UNLESS IT IS OF EITHER THE IONIZATION OR PHOTO-ELECTRIC TYPE.
4. SMOKE ALARMS OR DETECTORS SHALL BE LOCATED WITHIN DWELLING UNITS AS FOLLOWS:
   A. ON THE CEILING OR WALL OUTSIDE OF EACH ROOM USED FOR SLEEPING PURPOSES WITHIN 15 FEET (4572 MM) FROM THE DOOR TO SUCH ROOM.
   B. IN EACH ROOM USED FOR SLEEPING PURPOSES.
   C. IN EACH STORY WITHIN A DWELLING UNIT, INCLUDING BELOW-GRADE STORIES AND PENTHOUSES OF ANY AREA, BUT NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS. IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN THE ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.
5. CARBON MONOXIDE DETECTION DEVICES SHALL RECEIVE THEIR PRIMARY POWER FROM BUILDING WIRING. THERE SHALL BE NO SWITCHES IN THE CIRCUIT OTHER THAN THE OVERCURRENT DEVICE PROTECTING THE BRANCH CIRCUIT.
6. CARBON MONOXIDE ALARMS OR DETECTORS SHALL BE LOCATED WITHIN DWELLING UNITS AS FOLLOWS:
   A. OUTSIDE OF ANY ROOM USED FOR SLEEPING PURPOSES, WITHIN 15 FEET (4572 MM) OF THE ENTRANCE TO SUCH ROOM.
   B. IN ANY ROOM USED FOR SLEEPING PURPOSES.
   C. ON ANY STORY WITHIN A DWELLING UNIT, INCLUDING BELOW-GRADE STORIES AND PENTHOUSES OF ANY AREA, BUT NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS.
7. ALL CARBON MONOXIDE DETECTION DEVICES SHALL BE ACCEPTED PURSUANT TO RULES AND REGULATIONS PROMULGATED BY THE COMMISSIONER, APPROVED BY THE BOARD OF STANDARDS AND APPEALS OR LISTED BY A NATIONALLY RECOGNIZED INDEPENDENT LABORATORY. NO DEVICE SHALL BE DEEMED TO BE IN COMPLIANCE WITH THIS PROVISION UNLESS IT IS OF EITHER THE IONIZATION OR PHOTO-ELECTRIC TYPE.

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
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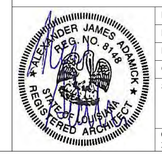
5601 READ BLVD. NEW ORLEANS, LA 70127

GENERAL NOTES, PROJECT KEYNOTES, & CODE REVIEW



DATE:	4/23/2025 8:55:29 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	T002
CAD FILE NO: 2024-23\PDF OUT\EC	2 /38

CODE ANALYSIS

0. OCCUPANCY CLASSIFICATION:

IBC 2021 (SECTION 310.4) -
ASSEMBLY GROUP A-5

NFPA 101-2015 (CHAPTER 28)
ASSEMBLY

1. CONSTRUCTION TYPE:

IBC 2021 (SECTION 602.3) -
V-B (EXISTING)
SPRINKLERED (NEW CONSTRUCTION)

NFPA 101-2015 (SECTION 9.7)
V-B (EXISTING)
SPRINKLERED (NEW CONSTRUCTION)

2. TOTAL BUILDOUT SQ FT:

IBC 2021 (TABLES 504.3, 504.4, 506.2)

ALLOWABLE HEIGHT - 504.3
A - (SPIRNKLERED) - 40'

ALLOWABLE # STORIES - 504.4
A-5 - (SPIRNKLERED) - UNLIMITED

ALLOWABLE SQ.FT. - 506.2
A-5 - (SPIRNKLERED) - UNLIMITED

GROSS SQ.FT.: 5,861 SQ. FT.

INTERIOR: 2,554 SQ. FT.
STANDING SPACE: 1,611 SQ. FT.
CONCESSIONS: 121
CAROUSEL (FIXED SEATING): 822

EXTERIOR: 3,307 SQ. FT.

3. OCCUPANT LOAD:

IBC 2021 (TABLE 1004.1.2)
- ASSEMBLY - STANDING SPACE
  1,300 SQ.FT. / 5 NET = 260 OCC.
- ASSEMBLY, FIXED SEATING - CAROUSEL
  20 OCCUPANTS
- MERCANTILE - CONCESSIONS
  121 SQ.FT. / 60 GROSS = 3 OCC.

- TOTAL = 283 OCC.

NFPA 101-2015 (TABLE 7.3.1.2)
- ASSEMBLY - STANDING SPACE
  1,300 SQ.FT. / 7 NET = 186 OCC.
- ASSEMBLY, FIXED SEATING - CAROUSEL
  20 OCCUPANTS
- MERCANTILE - CONCESSIONS
  121 SQ.FT. / 30 GROSS = 5 OCC.

- TOTAL = 211 OCC.

4. FIRE PROTECTION:

IBC 2021 (SECTION 903.2.8)
SPRINKLERED

FIRE RESISTANCE RATING
FOR BUILDING ELEMENTS:
IBC 2021 TABLE 601 & 602
TYPE III-B

PRIMARY STRUCTURAL FRAME	0 HOUR
EXTERIOR BEARING WALLS	0 HOUR
INTERIOR BEARING WALLS	-
NONBEARING WALLS	0 HOUR
FLOOR CONSTRUCTION	2 HOUR
ROOF CONSTRUCTION	0 HOUR

NFPA 101-2015 (SECTON 9.7)
SPRINKLERED

NFPA 101-2015 (SECTION 10.2)
CEILING & WALL FINISH MATERIALS TO BE COMBUSTABLE.

5. FIRE ALARM & ANNUNCIATION:

IBC 2021 (SECTION 907)

MANUAL FIRE ALARM BOXES NOT REQUIRED WHERE BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM (IBC 707.2.10)

NFPA 101-2015 (SECTION 9.7)

*BUILDING TO BE SPRINKLERED WITH A DRY PIPE SYSTEM.

6. MAX ALLOWABLE TRAVEL DISTANCE:

IBC 2021 (TABLE 1017.2) ASSEMBLY (SPRINKLED)	250 FT MAX.
NFPA 101-2015 (SECTION 17.2.6) ASSEMBLY (SPRINKLED)	200 FT MAX.

7. MAX ALLOWED COMMON PATH OF TRAVEL:

IBC 2021 (TABLE 1006.2.1) GROUP A (SPRINKLERED)	75 FT MAX.
NFPA 101-2015 (SECTION 31.2.6.2) ASSEMBLY (SPRINKLERED)	20 FT MAX.

8. REQUIRED EGRESS COMPONENT SIZING:

IBC 2021 (1005.3.2) 346 OCC. X .15	51.9" MIN. TOTAL DOOR WIDTH REQ.	79.25" TOTAL PROPOSED
NFPA 101-2015 (SECTION 7.2.1.2.3.2)	DOORS >32" MIN. REQ.	DOORS 39 5/8" EACH PROPOSED

LEGEND: LIFE SAFE SAFETY PLAN KEY

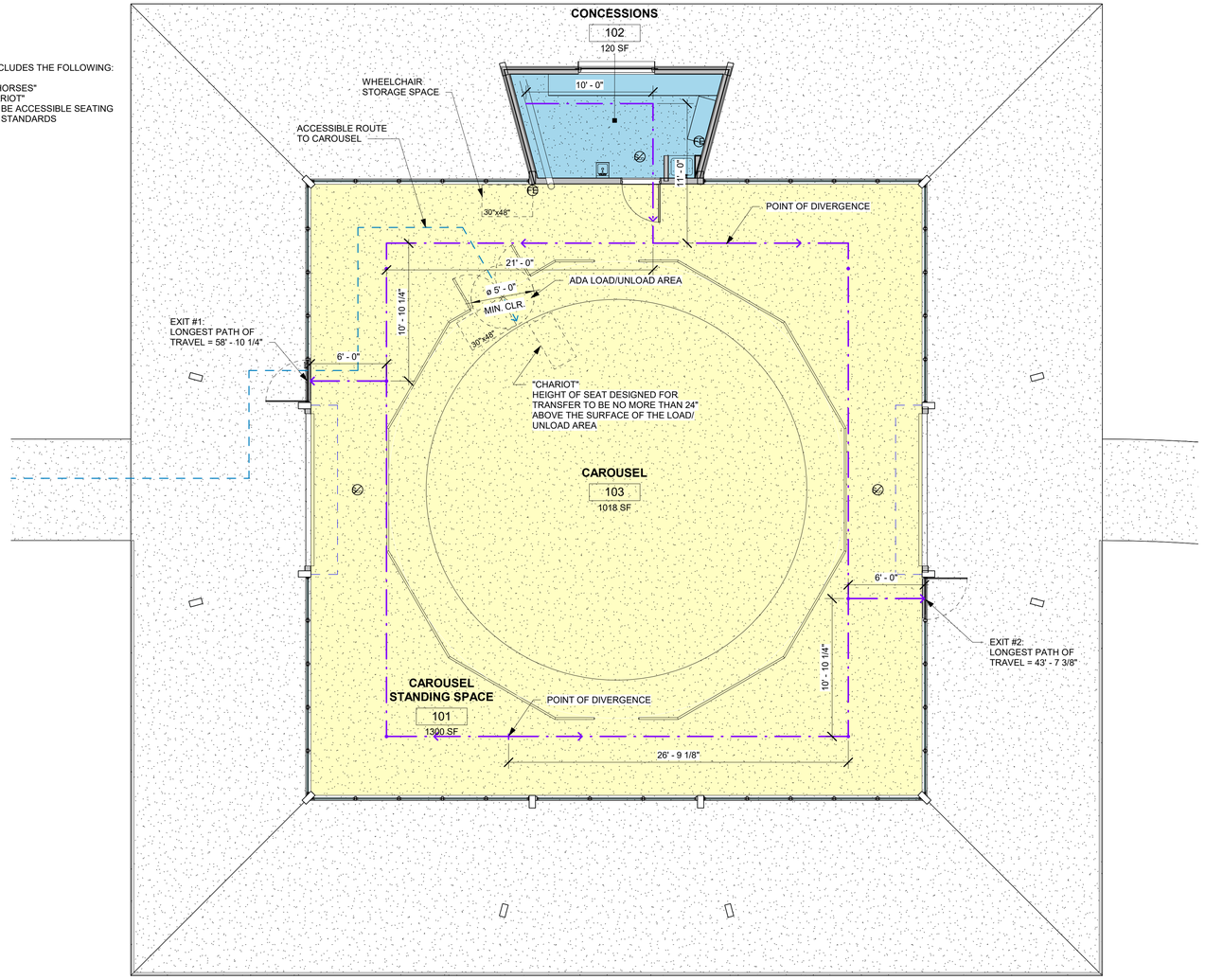
1. ASSEMBLY OCCUPANCY.
2. ACCESSORY MERCANTILE OCCUPANCY.
4. NO CLASSIFICATION.

SMOKE & CO2 DETECTOR UNIT
EGRESS SIGNAGE
PATH OF EGRESS
FIRE EXTINGUISHER

NOTE:

CAROUSEL INCLUDES THE FOLLOWING:

18 "JUMPING HORSES"
1 2-SEAT "CHARIOT"
"CHARIOT" TO BE ACCESSIBLE SEATING PER 2010 ADA STANDARDS



1 EGRESS - FIRST FLOOR
3/16" = 1'-0"

LIFE SAFETY TABLE

LIFE SAFETY - ROOM AREA AND OCCUPANCY

NUMBER	NAME	AREA	OCCUPANCY	OCCUPANT LOAD
101	CAROUSEL STANDING SPACE	1300 SF	ASSEMBLY - STANDING SPACE	260
102	CONCESSIONS	120 SF	ACCESSORY MERCANTILE	3
103	CAROUSEL	1018 SF	ASSEMBLY - FIXED SEATING	20
Grand total: 3				283

TOTAL OCCUPANCY - 283

LIFE SAFETY REQUIRED PROVISIONS

CODE REVIEW DONE USING 2021 - IBC, 2015 - NFPA.

1. NFPA13 SUPERVISED DRY-PIPE SPRINKLER SYSTEM.
2. PER NFPA 12.3.4.1.1 AND IBC 907.2.1, A FIRE ALARM SYSTEM IS NOT REQUIRED FOR OCCUPANCIES BELOW 300

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date

23 APR. 2025	SK-1
02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

LIFE SAFETY & EGRESS PLAN

ALEXANDER JAMES ADAMICK REG. NO. 8148 STATE OF LOUISIANA REGISTERED ARCHITECT

DATE:	4/23/2025 8:55:30 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	T003
CAD FILE NO: 2024-23\PDF OUT\EC	3 /38

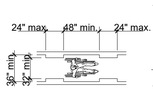


FIG. 403.5

CLEAR WIDTH OF AN ACCESSIBLE ROUTE

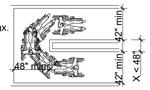


FIG. 403.5.1

CLEAR WIDTH AT TURN

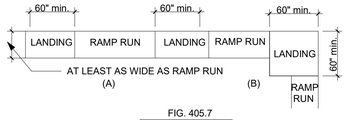


FIG. 405.7

RAMP LANDINGS

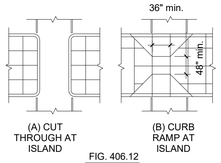


FIG. 406.12

ISLANDS

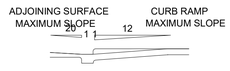


FIG. 406.3

COUNTER SLOPE OF SURFACES ADJACENT TO CURB RAMPS

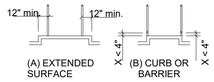


FIG. 405.9

RAMP EDGE PROTECTION

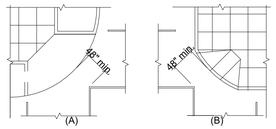


FIG. 406.11

DIGINAL CURB RAMPS

FIG. 407.2.3.2.1

HEIGHT OF ELEVATOR VISIBLE SIGNALS

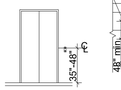


FIG. 407.2.2

ELEVATOR CALL BUTTONS

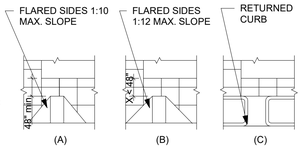


FIG. 406.4

SIDES OF CURB RAMPS

1 DETAIL - ACCESSIBLE ROUTES
1/8" = 1'-0"

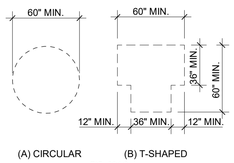


FIG. 304.3

SIZE OF WHEELCHAIR TURNING SPACE

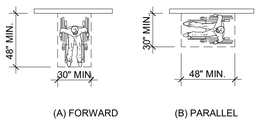


FIG. 405.5

POSITION OF CLEAR FLOOR OR GROUND SPACE

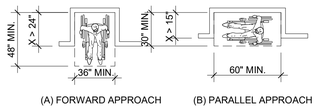


FIG. 305.7

MANEUVERING CLEARANCE IN AN ALCOVE

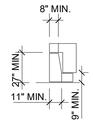


FIG. 306.3

KNEE CLEARANCE

FIG. 306.2

TOE CLEARANCE

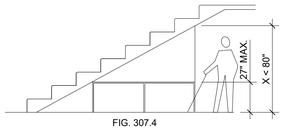


FIG. 307.4

REDUCED VERTICAL CLEARANCE

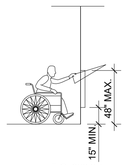


FIG. 308.2.1

UNOBSTRUCTED FORWARD REACH

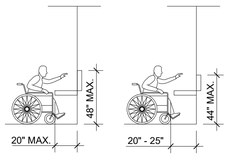


FIG. 308.2.2

OBSTRUCTED HIGH FORWARD REACH

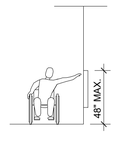


FIG. 308.3.1

UNOBSTRUCTED SIDE REACH

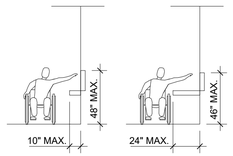


FIG. 308.3.2

OBSTRUCTED HIGH SIDE REACH

2 DETAIL - CLEAR FLOOR SPACE & REACH SPACES
3/16" = 1'-0"

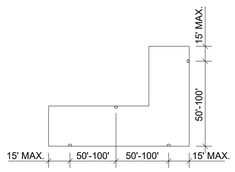


FIG. 702.3.5.1

APPLIANCE SPACING IN CORRIDORS

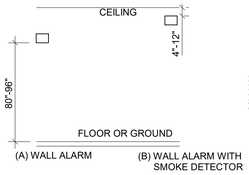


FIG. 702.3.3.1

LOCATION OF WALL-MOUNTED APPLIANCES

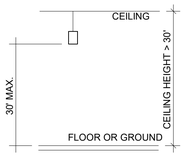


FIG. 702.3.3.2

LOCATION OF CEILING-MOUNTED APPLIANCES

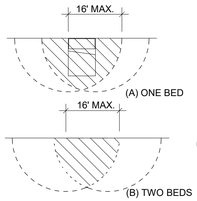


FIG. 702.3.6.2

APPLIANCE LOCATION IN SLEEPING ROOMS

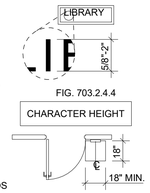


FIG. 703.2.4.4

CHARACTER HEIGHT

FIG. 703.2.8

MOUNTING LOCATION AT DOORS

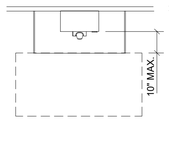


FIG. 704.2.1

SPACE FOR TELEPHONES

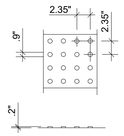


FIG. 705.3.1.1

TRUNCATED DOME SIZE

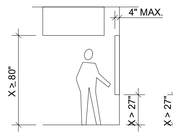


FIG. 307.2

LIMITS OF PROTRUDING OBJECTS

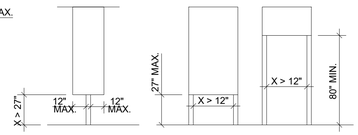
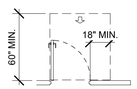


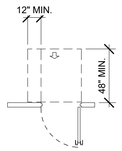
FIG. 307.3

POST-MOUNTED PROTRUDING OBJECTS

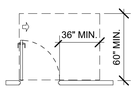
3 DETAIL - COMMUNICATION ELEMENTS & FEATURES & PROTRUDING ELEMENTS
3/16" = 1'-0"



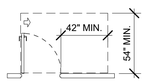
(A) FRONT APPROACH, PULL SIDE



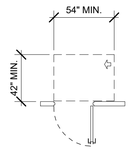
(B) FRONT APPROACH, PUSH SIDE



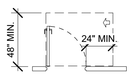
(C) HINGE APPROACH, PULL SIDE



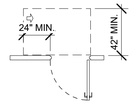
(D) HINGE APPROACH, PULL SIDE



(E) HINGE APPROACH, PUSH SIDE



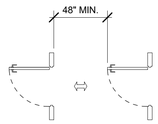
(F) LATCH APPROACH, PULL SIDE



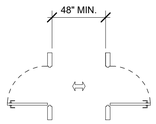
(G) LATCH APPROACH, PUSH SIDE

FIG. 404.2.4.1

MANEUVERING CLEARANCE AT SWINGING DOORS



(A)

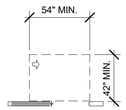


(B)

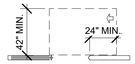
FIG. 404.2.6

TWO DOORS IN A SERIES

(A) FRONT APPROACH



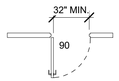
(B) POCKET OR HINGE APPROACH



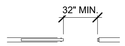
(C) STOP OR LATCH APPROACH

FIG. 404.2.4.2

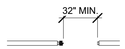
MANEUVERING CLEARANCE AT SLIDING AND FOLDING DOORS



(A) HINGE DOOR



(B) SLIDING DOOR

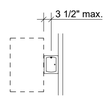


(C) FOLDING DOOR

FIG. 404.2.3

CLEAR WIDTH OF DOORWAYS

4 DETAIL - DOORS & DOORWAYS
3/16" = 1'-0"



(A) PARALLEL APPROACH

(B) FORWARD APPROACH

FIG. 602.5

DRINKING FOUNTAIN SPOUT LOCATION

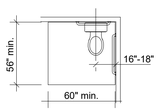


FIG. 604.2/604.3.1

WATER CLOSET LOCATION & SIZE CLEARANCE

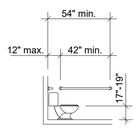


FIG. 604.4/604.5.1

HEIGHT OF WATER CLOSET & SIDE WALL GRAB BAR FOR WATER CLOSET

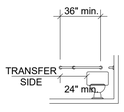


FIG. 604.5.2

REAR WALL GRAB BAR FOR WATER CLOSET

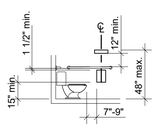
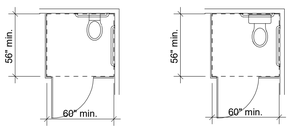


FIG. 604.7

DISPENSER LOCATION



(A) WALL-HUNG WATER CLOSET (B) FLOOR-MOUNTED WATER CLOSET

FIG. 604.8.1.1

WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS

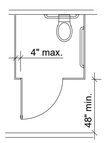


FIG. 604.8.3

TOILET COMPARTMENT DOORS

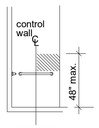
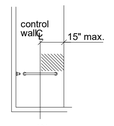
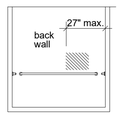


FIG. 608.5

CONTROLS IN TRANSFER-TYPE SHOWERS



(A)



(B)

FIG. 608.6

LOCATION OF SHOWER SPRAY UNIT

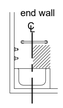


FIG. 607.5

LOCATION OF BATHTUB CONTROLS

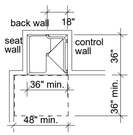


FIG. 608.2.1/608.3.1

TRANSFER-TYPE SHOWER COMPARTMENT WITH GRAB BARS

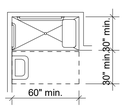


FIG. 608.2.2

STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT

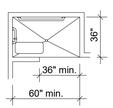


FIG. 608.2.2

STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT

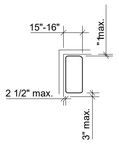


FIG. 610.3.1

RECTANGULAR SHOWER COMPARTMENT SEAT

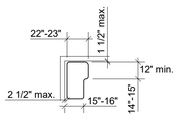
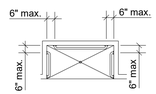


FIG. 610.3.2

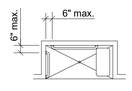
L-SHAPED SHOWER COMPARTMENT SEAT

FIG. 609.3

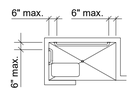
SPACING OF GRAB BARS



(A) STANDARD ROLL-IN-TYPE SHOWER



(B) ROLL-IN-TYPE SHOWER WITH SEAT



(C) GRAB BARS IN ROLL-IN-TYPE SHOWERS

FIG. 608.3.2

GRAB BARS IN ROLL-IN-TYPE SHOWERS

FIG. 606.3

HEIGHT OF LAVATORIES AND SINKS

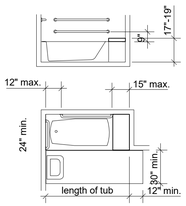


FIG. 607.4.1 WITH FIG. 607.2 CLEARANCES

GRAB BARS FOR BATHTUBS WITH PERMANENT SEATS

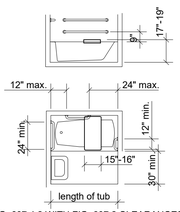


FIG. 607.4.2 WITH FIG. 607.2 CLEARANCES

GRAB BARS FOR BATHTUBS WITHOUT PERMANENT SEATS

5 DETAIL - PLUMBING ELEMENTS & FACILITIES
3/16" = 1'-0"

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date

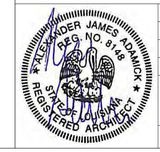
23 APR. 2025	SK-1
02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

ADA STANDARDS



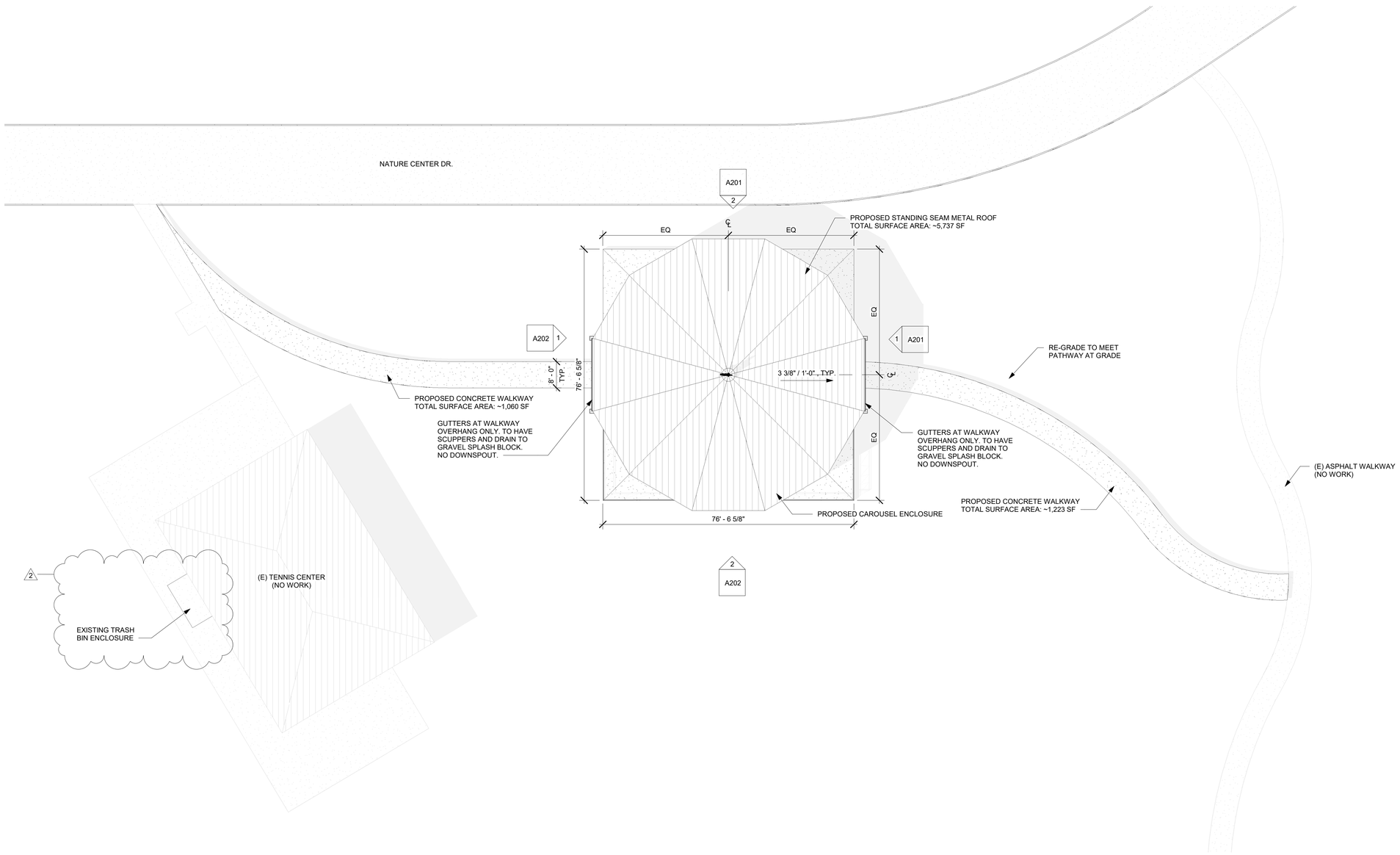
DATE:	4/23/2025 8:55:33 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	T004
CAD FILE NO: 2024-23\PDF OUT\EC	4 / 38

SITE PLAN : ZONING DATA		
	REQUIRED	EXIST / PROP.
LOT AREA (SQ.FT.) :	25 ACRES	53.89 ACRES
BLDG. HEIGHT :	50'-0"	21'-0"
FRONT SETBACK :	20'-0"	20'-0" EXISTING TO REMAIN
SIDE SETBACK :	20'-0"	20'-0" EXISTING TO REMAIN
REAR SETBACK :	20'-0"	20'-0" EXISTING TO REMAIN

SITE PLAN : PROPERTY INFORMATION	
ADDRESS :	5601 READ BLVD.
CITY / PARISH :	NEW ORLEANS / ORLEANS
ZIP CODE :	70127
SQUARE / BLOCK :	0
LOT :	-
ZONING DISTRICT:	OS-R
USE :	PARKLAND AND OPEN SPACE
HISTORIC DISTRICT:	N/A

GENERAL SITE PLAN NOTES

1. ALL DIMENSIONS ARE "FINISH TO FINISH," UNLESS NOTED OTHERWISE.
2. CONTRACTOR RESPONSIBLE FOR LOCATING AND COORDINATING ALL NEW FOUNDATIONS, PILES, GRADE BEAMS ETC. WITH SURVEYOR PRIOR TO PROCEEDING WITH CONSTRUCTION OF THE BUILDING.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING NEW GRADING, SOD, HARDSCAPING, AND GRAVEL WITH A WEED BARRIER AS INDICATED ON THE SITE PLAN.



1 SITE PLAN
1/16" = 1'-0"

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date
2	DAC REVIEW SET	04/23/2025

23 APR. 2025	SK-1
02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

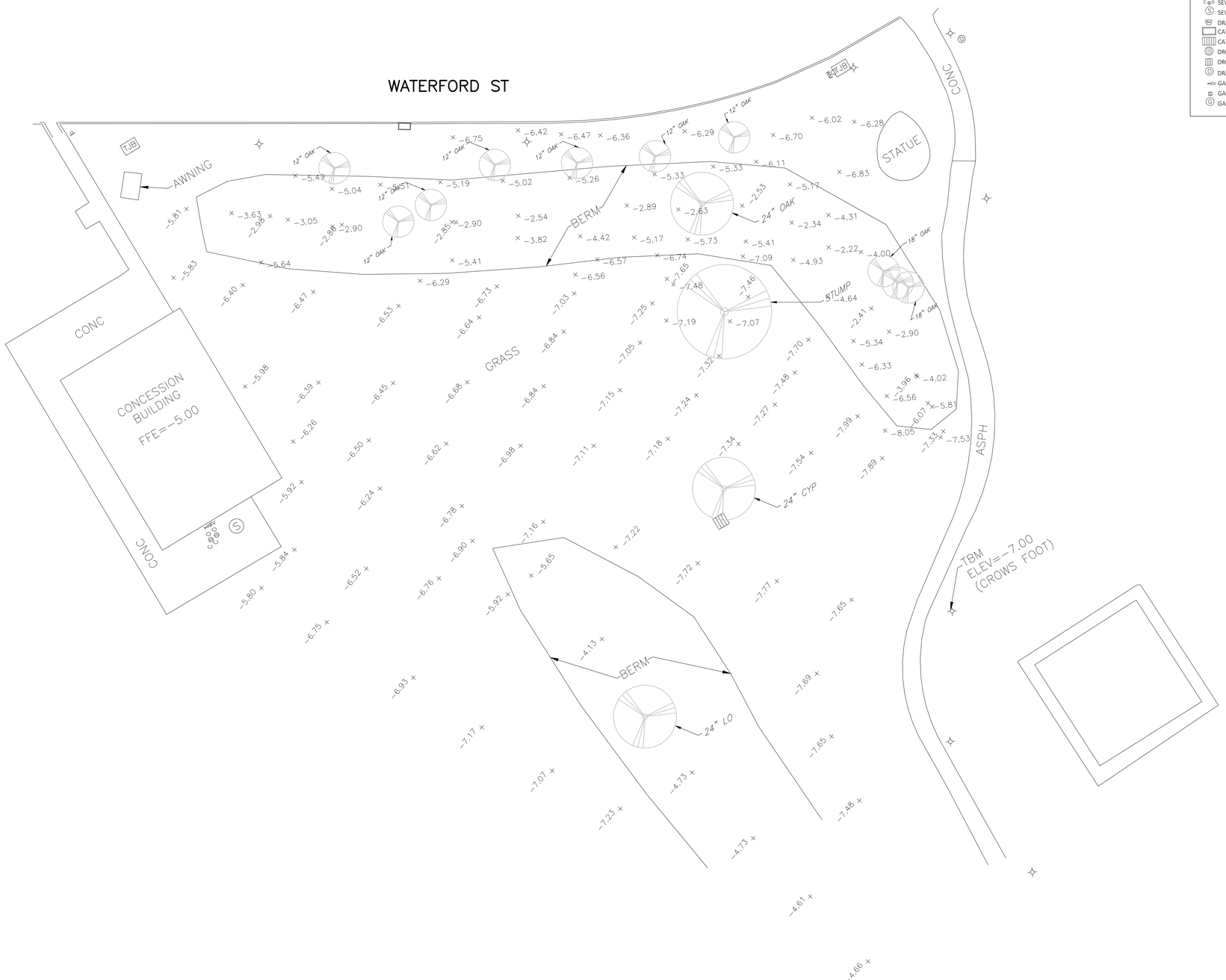
SITE PLAN, ZONING, SURVEY, & ELEV. CERT.

ALEXANDER JAMES ADAMICK
REG. NO. 8148
STATE OF LOUISIANA
REGISTERED ARCHITECT

DATE:	4/23/2025 8:54:56 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	A100
CAD FILE NO: 2024-23\PDF OUT\EC	5 / 38

N

SCALE: 1'=20' (24X36)



LEGEND

LIGHT POLE	TEL JUNCTION BOX	OVERHEAD ELEC
GUY WIRE	TELEPHONE PEDESTAL	DRAIN
POWER POLE	TELEPHONE MANHOLE	UG TELEPHONE
FIRE HYDRANT	TRAFFIC POLE	SEWER
WATER METER	TRAFFIC MANHOLE	GAS
WATER VALVE	ELEC JUNCTION BOX	WATER
WATER MANHOLE	ELECTRIC MANHOLE	FIBER OPTIC
SEWER CLEANOUT	MAIL BOX	UNKNOWN
SEWER MANHOLE	SIGN	FENCE
DRAIN CLEANOUT	POST	RIGHT OF WAY
CATCH BASIN (VERTICAL)	TRASH CAN	BUILDING
CATCH BASIN (MOUNTABLE)	SPOT ELEVATION	TREE
DROP INLET (ROUND)	IRON ROD FOUND	
DROP INLET (SQUARE)	IRON ROD SET	
DRAIN MANHOLE	CROSS FOUND	
GAS VALVE	CROSS SET	
GAS BOX	NAIL FOUND	
GAS MANHOLE	NAIL SET	

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FILE NO. 183-001

BATTURE LLC
engineers + land surveyors
5110 FRERET ST, NEW ORLEANS, LA 70115
phone 504.533.8644 | fax 504.336.2272
info@batture-eng.com | batture-eng.com

REV. NO.	DATE	DESCRIPTION
-	-	-

JOE BROWN PARK CAROUSEL ENCLOSURE

5601 READ BLVD., NEW ORLEANS,LA 70127

DRAWN BY: BATTURE
CHECKED BY: BATTURE
DATE: 04/02/25
ISSUE: CD'S SET

STATE OF LOUISIANA
ROBERT MORA
License No. 35109
04-02-25
PROFESSIONAL ENGINEER

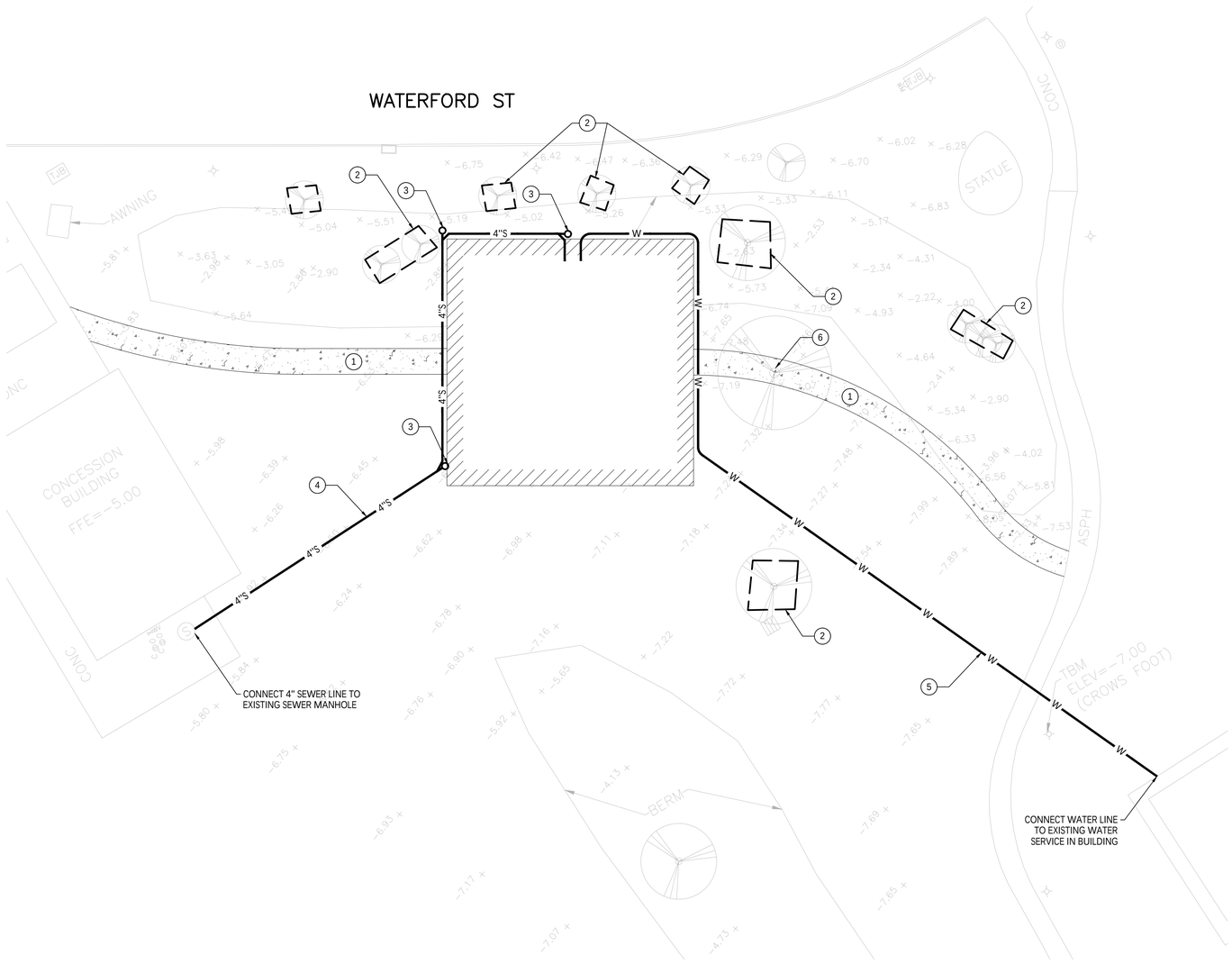
PROFESSIONAL OF RECORD:
bmora@batture-eng.com

EXISTING SITE

SHEET NUMBER:
C01

N

SCALE: 1'=20' (24X36)



C02 SITE PLAN & UTILITY PLAN

1"=20'

LEGEND

CONCRETE PAVEMENT	EXISTING ELEVATION (14.11)
TREE PROTECTION FENCING	ELEVATION (-4.50)
(1) 4" CONCRETE SIDEWALK, SEE DETAIL 1, SHT C05	(4) PROPOSED SEWER EXTENSION
(2) PROTECT EXISTING TREE, SEE DETAIL 2, SHT C05	(5) PROPOSED WATER EXTENSION
(3) REQ'D SEWER CLEANOUT	(6) TREE STUMP TO BE REMOVED

SITE PLAN NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK, VERIFYING ALL MEASUREMENTS AND GRADES AND REPORTING ANY DISCREPANCIES TO THE ENGINEER BEFORE STARTING CONSTRUCTION.
2. ANY WORK IN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC REQUIRES PRIOR NOTIFICATION TO CITY OF NEW ORLEANS DPW TRAFFIC ENGINEERING DIVISION AND CONFORMITY TO THE REQUIREMENTS OF THE UNIFORM MANUAL ON TRAFFIC CONTROL DEVICES OF THE STATE OF LOUISIANA. THE CONTRACTOR MUST FURNISH ALL TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.
3. REFER TO BOUNDARY SURVEY FOR EXISTING MONUMENTS TO LAYOUT PROPERTY LINE.
4. BRING UP GRADE UNDER ALL PAVEMENT WITH STRUCTURAL FILL COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.
5. ALL DIMENSIONS SHOWN ARE FROM:
- FACE OF CURB TO FACE OF CURB
- FACE OF CURB TO PROPERTY LINE
- FACE OF CURB TO CENTER OF STRUCTURE (DROP INLET, MANHOLE, ETC.)
- PROPERTY LINE TO BUILDING FACE
6. ALL CURB RADII SHALL BE 3 FEET UNLESS OTHERWISE NOTED ON THIS PLAN.
7. ALL PAINT STRIPING, PAVEMENT MARKINGS, AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR AS OTHERWISE SPECIFIED. ALL REFERENCED SIGN STANDARDS ARE TAKEN FROM THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". ALL NEW SIGNS SHALL BE MOUNTED ON GALVANIZED POSTS AND IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
8. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHOWN ON THE APPROVED PLANS FOR THE DURATION OF CONSTRUCTION OR UNTIL FINAL INSPECTION.

UTILITY NOTES:

1. UTILITY EXCAVATIONS SHALL CONFORM TO THE CURRENT OSHA EXCAVATION AND TRENCH SAFETY STANDARDS.
2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST ORLEANS PARISH UTILITY DEPARTMENT STANDARDS AND SPECIFICATIONS.
3. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY FOR DIRECTIONS.
4. CONTRACTOR SHALL COORDINATE ANY INTERRUPTION OF UTILITY SERVICE WITH OWNER AND UTILITY COMPANY.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION, AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY THE CITY UTILITY DEPARTMENT FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE.
6. ANY PLANNED INTERRUPTION OF UTILITY SERVICE SHALL BE GIVEN A 48 HOUR NOTICE TO THE UTILITY COMPANY AND THE OWNER.
7. THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HEREON HAVE BEEN PLOTTED BASED UPON DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR OBTAINED FROM RECORDS MADE AVAILABLE TO USE BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF UTILITIES ARE SHOWN. THE ACTUAL NON-VISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATIONS PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON. PRIOR TO EXCAVATION AND DIGGING CALL LOUISIANA ONE CALL (#811).
8. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES.
9. CONTRACTOR MUST FIELD VERIFY ALL EXISTING DRAINAGE & SEWER INVERTS. NOTIFY ENGINEER OF ANY PROBLEMS BEFORE CONSTRUCTION BEGINS.
10. CONTRACTOR TO COORDINATE SEWER AND WATER CONNECTIONS WITH SEWERAGE AND WATER BOARD OF NEW ORLEANS.

S&WB NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH S&WB GENERAL SPECIFICATIONS, S&WB STANDARD DRAWINGS, AND S&WB DRAWING NO. 7260.
2. CONTRACTOR SHALL CONTACT HADI AMINI (505-865-0445) OF S&WB CONSTRUCTION ADMINISTRATION AND INSPECTION DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE FOR INSPECTION.
3. CONTRACTOR SHALL PROVIDE THE FOLLOWING TO THE S&WB CONSTRUCTION ADMINISTRATION DEPARTMENT BEFORE BEGINNING CONSTRUCTION
4. PROOF OF LOUISIANA MUNICIPAL AND PUBLIC WORKS CONTRACTORS LICENSE
5. DEPARTMENT OF PUBLIC WORKS STREET CUT PERMIT
6. PROOF OF INSURANCE INDEMNIFYING THE S&WB OF NEW ORLEANS IN THE AMOUNT OF AT LEAST $5,000,000.00
7. ANY WORK OUTSIDE OF THE PUBLIC RIGHT OF WAY MUST BE REVIEWED AND APPROVED BY HE SEWERAGE AND WATER BOARD OF NEW ORLEANS PLUMBING DEPARTMENT IN ADVANCE OF CONSTRUCTION. A LICENSED MASTER PLUMBER MUST CONTACT THE PLUMBING DEPARTMENT AT 504-585-2160 TO VERIFY COMPLIANCE WITH ALL APPLICABLE GOVERNING REGULATIONS. OBTAINING THE SIGNATURE OF A REPRESENTATIVE OF S&WB ENGINEERING DOES NOT RELIEVE THE PLUMBER OF THIS OBLIGATION
8. THE METER SHALL BE INSTALLED AS RECEIVED FROM 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.
9. ALL BRONZE/ BRASS FITTINGS, CONNECTORS CORPORATION STOPS AND APPURTENANCES USED IN CONJUNCTION WITH PE TUBING SHALL BE 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.

TREE PROTECTION NOTES :

1. IT IS CRUCIAL THAT TREE PROTECTION FENCE MUST BE ERECTED PRIOR TO ANY SITE DEMOLITION BEGIN.

2. PROTECTION FENCE SHALL BE PLACED AROUND CRITICAL ROOT ZONE OF ALL TREES TO BE RETAINED.
4. DO NOT UNDER ANY CIRCUMSTANCE DRIVE OR PARK MACHINERY ON TREE ROOTS OR UNDER THE DRIPLINE.
5. AVOID DISTURBING ROOTS IN CRITICAL ROOT ZONE. IF ROOT CUTTING IS NECESSARY OR ANY DAMAGED ROOTS OCCURRED, THEY SHALL BE CUT CLEANLY WITH AN AXE A FEW INCHES CLOSER TO THE TRUNK. ANY OVERED/EXPOSED OR PRUNED TREE ROOTS MUST BE COVERED IMMEDIATELY WITH DIRT AND MULCH TO PREVENT ROOTS FROM DRYING OUT.
6. NO STORAGE OR CONCRETE DUMPING IS PERMITTED ON TREE ROOTS AND/OR UNDER DRIPLINE.
7. NO BUILDING MATERIALS ARE TO BE STACKED OR STOCKPILED WITHIN THE DRIPLINE OR WITHIN 6 FEET OF ANY TREE TO BE PRESERVED, WHICHEVER IS GREATER.
8. TOPSOIL SHALL NOT BE STOCKPILED WITHIN THE DRIP LINE OR WITHIN 6 FEET OF ANY TREE TO BE PRESERVED, WHICHEVER IS GREATER.
9. TREE BOARDING SHALL BE USED IF WORK IS REQUIRED WITHIN FENCING.
10. ANY UNCOVERED/EXPOSED TREE ROOTS SHALL BE IMMEDIATELY COVERED WITH MULCH.
11. ANY UNDERSTORY CLEARING WITHIN SIX FEET OF EXISTING TREE TRUNKS SHALL BE DONE BY HAND.
12. AVOID DAMAGE TO MAJOR TREE BRANCHES.
13. ABORIST TO BE ON SITE DURING ANY WORK ADJACENT TO TREE THAT MAY AFFECT TREE BRANCHES OR ROOTS.
14. PER CITY CODE, CONTRACTOR MAY BE HELD LIABLE FOR DEATH OR DECLINE OF TREE.
15. NO MAJOR GRADING SHALL TAKE PLACE AROUND TRUNK AND MAJOR ROOTS OF EXISTING TREES TO REMAIN.

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info@batture-eng.com | batture-eng.com

FILE NO. 183-001

REV. NO.	DATE	DESCRIPTION
-	-	-

JOE BROWN PARK CAROUSEL ENCLOSURE

5601 READ BLVD., NEW ORLEANS, LA 70127

DRAWN BY: BATTURE
CHECKED BY: BATTURE
DATE: 04/02/25
ISSUE: CD'S SET

STATE OF LOUISIANA
ROBERT MORA
License No. 35109
04-02-25
PROFESSIONAL ENGINEER

PROFESSIONAL OF RECORD: bmora@batture-eng.com

SITE PLAN & UTILITY PLAN

SHEET NUMBER: C02

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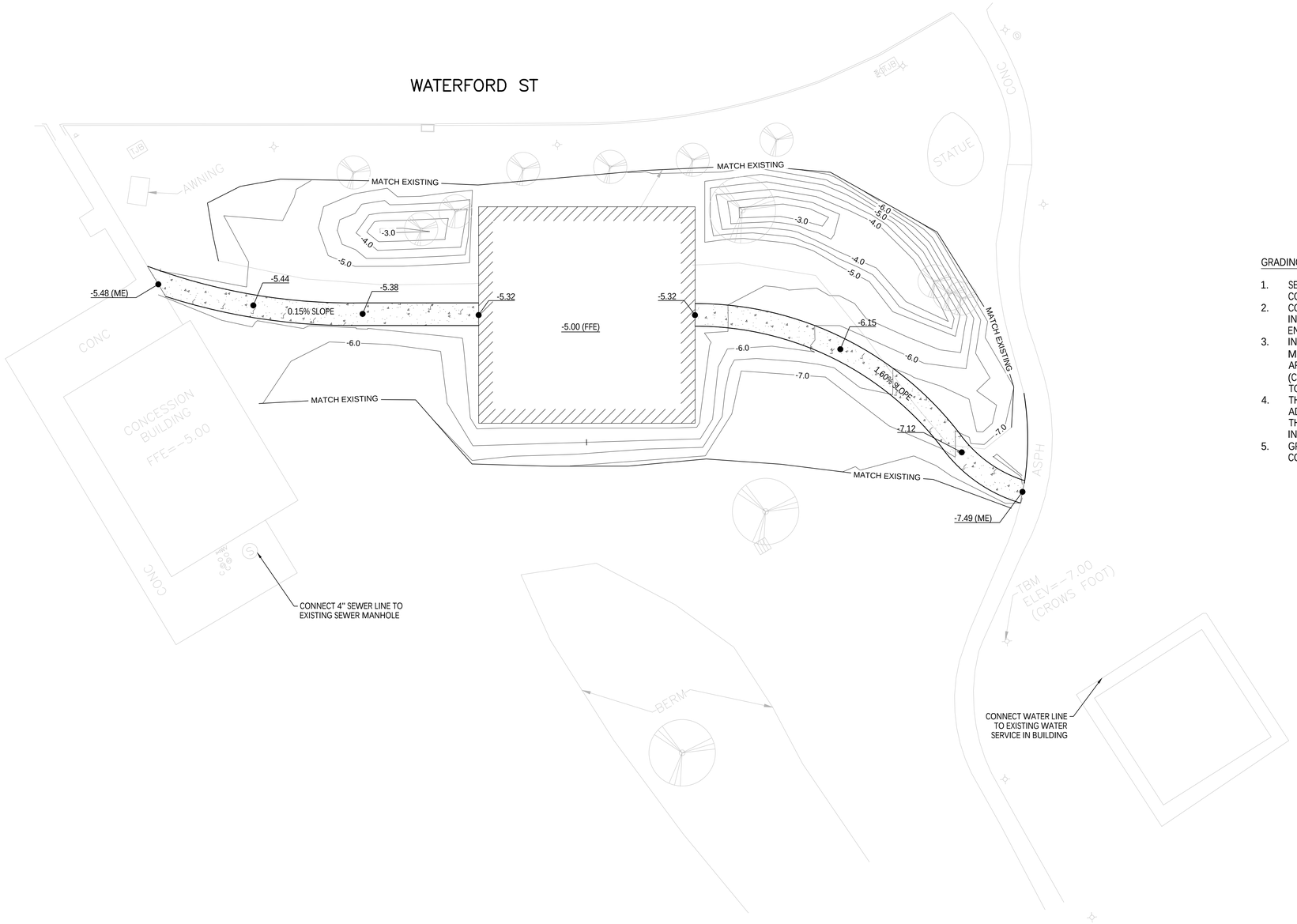
N

SCALE: 1'=20' (24X36)



LEGEND

14.11 EXISTING ELEVATION

-4.50 ELEVATION

GRADING PLAN NOTES:

1. SEE SITE PLAN AND ARCH. PLAN DRAWINGS FOR GEOMETRY ASSOCIATED WITH NEW CONSTRUCTION.
2. CONTRACTOR SHALL LAY OUT THE WORK AND VERIFY ALL DIMENSIONS AND GRADES INDICATED ON THE DRAWINGS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING CONSTRUCTION.
3. IN ORDER TO ENCOURAGE INFILTRATION OF STORMWATER AND TO MINIMIZE THE MIGRATION OF SEDIMENT(S), THE FINISHED GRADE FOR ALL LANDSCAPE AND/OR PLANTED AREAS SHALL BE SET A MINIMUM OF 3" BELOW SURROUNDING HARDSCAPE CONTAINMENTS (CURBING, SIDEWALKS, FOUNDATIONS, ETC.). THIS STANDARD MAY BE WAIVED IF NECESSARY TO PROMOTE THE PRESERVATION OF EXISTING TREES SHOWN AS SUCH.
4. THE GRADE OF LAWN AREAS NOT DESIGNED TO RECEIVED STORMWATER RUNOIFF FROM ADJACENT HARDSCAPE SHALL COME TO THE TOP OF CURB UNLESS OTHERWISE SHOWN ON THE DRAWINGS. ALL OTHER PLANTING AREAS SHALL ADHERE TO THE REQUIREMENTS LISTED IN NOTE 3.
5. GRADES SHOWN ARE CAIRO DATUM (NAVD 88 + 20.43'). REFERENCE SURVEY / EXISTING CONDITIONS SHEET FOR VERTICAL CONTROL POINTS.

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GRADING PLAN

SHEET NUMBER: C03

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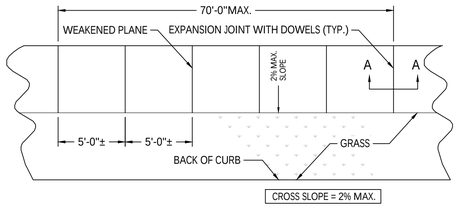
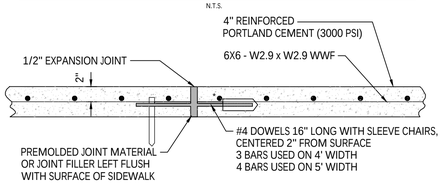


PLAN PORTLAND CEMENT CONCRETE SIDEWALK PAVEMENT (RIBBON)

N.T.S.



SECTION A-A (*) THIS HALF OF DOWEL SHALL BE GREASED

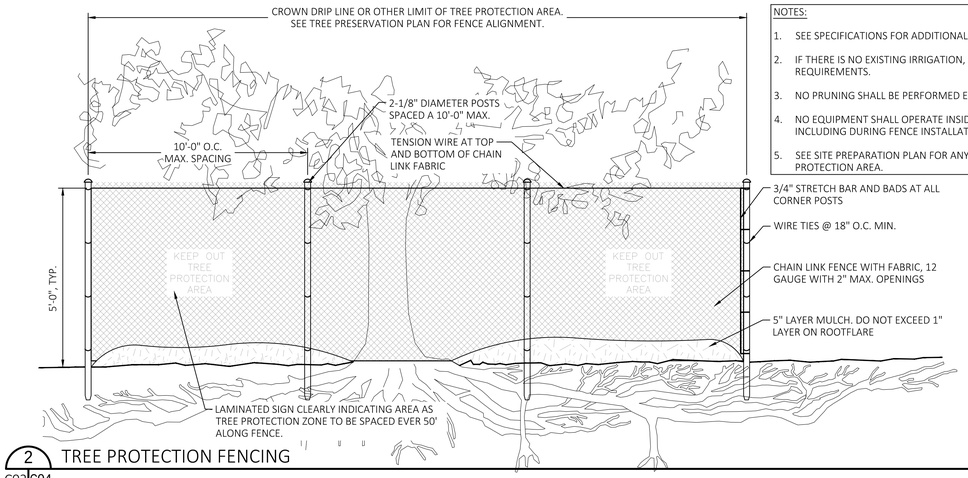
SIDEWALK NOTES:

1. SAND SUBBASE SHOULD BE COMPACTED TO 95% OF IT'S MAXIMUM DRY DENSITY NEAR OPTIMUM WATER CONTENT USING ASTM D 1557.
2. COMPACTED SAND (I.E. RIVER SAND) - SHALL BE NON-PLASTIC AND FREE OF ROOTS, CLAY LUMPS, AND OTHER DELETERIOUS MATERIALS WITH NO MORE THAN 10% BY WEIGHT OF MATERIAL PASSING A U.S. STANDARD NO. 200 MESH SIEVE. MAXIMUM ORGANIC CONTENT SHOULD NOT EXCEED 5% BY WEIGHT. PRIOR TO TRANSPORTING FILL TO THE SITE, A SAMPLE SHOULD BE TESTED TO VERIFY IT'S CONFORMANCE TO THESE REQUIREMENTS.
3. ASPHALT SHALL CONFORM TO THE MATERIAL AND CONSTRUCTION REQUIREMENTS FOR ASPHALT PAVEMENT AS SPECIFIED IN THE LSSRB.
4. GEOTEXTILE STABILIZATION FABRIC SHALL MEET OR EXCEED THE MATERIAL REQUIREMENTS IN SECTION 1019.01 OF THE LSSRB. A CLASS C GEOTEXTILE SHOULD BE USED AND PLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS
5. SUBGRADE PREPARATION - AFTER STRIPPING, CLEARING, AND DEMOLITION OPERATIONS, THE EXPOSED GROUND SHOULD BE PROOFROLLED WITH A BULLDOZER, COMPACTOR, OR TRACKED VEHICLE EXERTING A GROUND PRESSURE BETWEEN 10 AND 15 PSI. THE VIBRATORY SYSTEM ON THE COMPACTOR, IF PRESENT, SHOULD NOT BE USED DURING PROOFROLLING. ANY WEEK AREAS SHOULD BE REMOVED AND BACKFILLED WITH COMPACTED SAND. CLEARING AND COMPACTION OPERATIONS SHALL ONLY BE PERFORMED DURING PERIODS OF DRY WEATHER.

1 4" CONCRETE SIDEWALK

C02 | C04

NOT TO SCALE



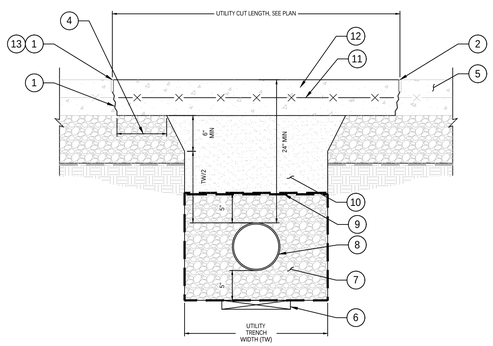
NOTES:

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.

2 TREE PROTECTION FENCING

C02 | C04

NOT TO SCALE



CALLOUTS:

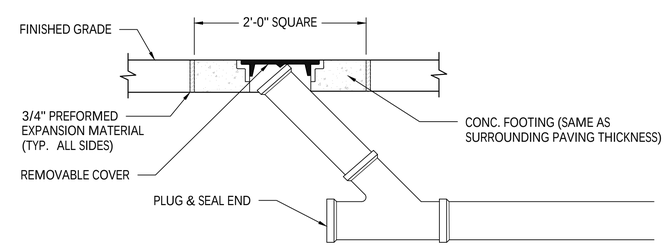
1. NEW TRANSVERSE JOINT BOUNDARY. CUT TO ONE-THIRD DEPTH IF EXISTING SLAB IS LESS THAN 7".
2. FIELD VERIFY TO UTILIZE ANY EXISTING TRANSVERSE JOINT BOUNDARY.
3. CHIPPED EDGES TAPER INWARD, TYP.
4. LEAVE 6 - 12" OF COMPACTED SUBBASE/SUBGRADE AT THE EDGE OF THE UTILITY CUT, TYP.
5. CONTRACTOR'S METHOD OF BREAKING THE REMOVAL SECTION SHOULD NOT DAMAGE THE ADJACENT PAVEMENT OR OVERBREAK/UNDERCUT THE SLAB BOTTOM, TYP.
6. 2"x12" (LONGITUDINAL) DRIVEN INTO MUD
7. AGGREGATE BEDDING SHALL BE INSTALLED IN 6" MAX LIFTS AND COMPACTED TO 95% OF MAXIMUM DENSITY. ALTERNATIVELY, FLOWABLE FILL MAY BE PERFORMED PENDING ENGINEER APPROVAL.
8. 8" OR SMALLER UTILITY, SHALL BE AT MINIMUM DEPTH OF 24" FROM FINISHED PAVED SURFACE. FIELD VERIFY DEPTH OF TIE-INS. SEE PLAN FOR SIZING.
9. FILTER FABRIC ENVELOPE DOUBLE TOP OVERLAP
10. PUMPED SAND BACKFILLED COMPACTED IN 6" MAX LIFTS TO 95% OF MAXIMUM DENSITY
11. 6"x6" W2.9xW2.9 WWF
12. PORTLAND CEMENT PAVEMENT, MATCH EXISTING DEPTH (3,000 PSI @ 28 DAYS)
13. JOINTING METHOD TO MATCH EXISTING. SEE PLAN FOR SPACING OF TRANSVERSE JOINTS.

NOTE: THE PROVIDED DETAIL SHALL SUPPLEMENT STANDARD DWG. NO. 4697-E5-A FROM SEWERAGE AND WATER BOARD OF NEW ORLEANS.

3 OPEN TRENCH SECTION

C02 | C04

NOT TO SCALE



4 TYPICAL CLEANOUT

C02 | C04

NOT TO SCALE

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STATE OF LOUISIANA
ROBERT MORA
License No. 35109
04-02-25
PROFESSIONAL ENGINEER

PROFESSIONAL OF RECORD: bmora@batture-eng.com

DETAILS

SHEET NUMBER: C04

GENERAL STRUCTURAL NOTES

I. GENERAL

A. The contractor shall ensure that no construction load exceeds the design live loads indicated on the structural drawings and that these loads are not put on the structural members prior to the time that all framing members and their connections are in place.
B. The contractor shall be responsible for the design, placement, maintenance, etc. of any and all shoring, bracing, tie backs, etc. needed to support any part of the new or existing construction during the entire construction process to ensure the safety and integrity of the structure until the necessary permanent elements are in place.
C. See architectural, mechanical, and electrical drawings for exact location of all depressions, slopes, openings, penetrations, etc. Penetrations not shown on the structural drawings shall be brought to the attention of the structural engineer.
D. Dimensions - Use written dimensions only. Do not scale from this drawing.
E. The structural drawings shall govern the work for all structural features, unless noted otherwise. The architectural drawings shall govern the work for all dimensions.
F. Structural drawings are intended to be used with architectural, mechanical, and electrical drawings. See these drawings for exact location of all depressions, slopes, openings, penetrations, etc. Penetrations not shown on the structural drawings shall be brought to the attention of the structural engineer. Contractor is responsible for coordinating such requirements into their shop drawings and work.
G. No change in size or dimension of structural members shall be made without the written approval of the professional of record.
H. Weights of mechanical equipment shown on the structural plans are for units specified by the Mechanical Engineer. Contractor shall verify weights and any substitutions that result in increased weight shall be approved by the Structural Engineer of Record.
I. Omissions & Conflicts - Omissions or conflicts between various elements of the construction documents should be brought to the attention of the design team.
J. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places shall be repeated.
K. In case of conflict between the General Notes and Specifications and details, the most stringent requirements shall govern.
L. If any items herein are not understandable or clear as to intent, the contractor must notify the Engineer of Record for clarification and/or supplemental information prior to actual installation.
M. The contractor shall inform the professional of record in writing of any deviation from the contract documents. The contractor shall not be relieved of the responsibility of such deviation by the professional of record review of shop drawings, product data, etc., unless the contractor has specifically informed the professional of record of such deviation at the time of submission, and the professional of record has given written approval to the specific deviation.
N. All columns shall be centered on grid lines unless noted otherwise.
O. All column footings and pile caps shall be centered on columns unless noted otherwise.

II. DESIGN BASIS

A. Applicable Codes and Standards
  1. International Building Code 2021
B. Design Live Loads
  1. Roof - 20 psf
  2. Decks - 60 psf
  3. Living Floors - 40 psf
  4. Assembly Areas - 100 psf
C. Wind Load based on ASCE 7-16 Minimum Design Loads for Buildings and Other Structures
  1. Basic Wind Velocity 144 mph
  2. Risk Category II
  3. Exposure B
  4. Design Method
    a. MWFRS - Chapter 27, Directional Procedure
    b. C&C - Chapter 30 Part 1, Envelope Procedure
  5. Mean Roof Height = xx ft
  6. Roof Slope = xx°
  7. Enclosure Classification = Enclosed
D. Service Components and Cladding Pressures per Code
0.6 Factor is already included in reported pressure
Effective Wind Area = 10 sf (+) (-)
  1. Roof
    Zone 1 16.1 psf -31.3 psf
    Zone 2 16.1 psf -35.1 psf
    Zone 3 16.1 psf -44.6 psf
  2. Wall
    Zone 4 29.4 psf -31.3 psf
    Zone 5 29.4 psf -37 psf
E. See Figure 1 for C&C Zone Designations
  Distance "a" 4.8 ft
Engineer of Record can furnish C&C load for larger effective wind areas upon request

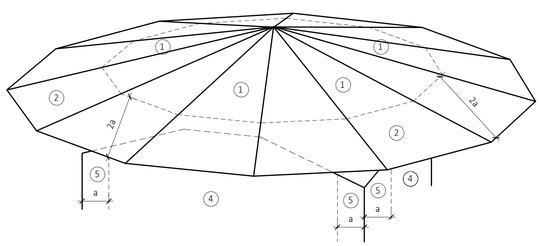

Figure 1. C&C Zone Designations

III. MATERIALS

A. CONCRETE
  1. Concrete shall be designed and detailed in accordance with the Building Code Requirements for Structural Concrete (ACI 318 latest edition), and constructed in accordance with the CRSI Manual of Standard Practice and ACI 301.
  2. All concrete shall have a minimum 28-day compressive strength of 4,000 psi.
  3. All concrete shall be normal weight concrete (144 pcf +) with all cement conforming to ASTM C150, Type I. Maximum aggregate size shall be 1-1/2 inches for footings and 3/4" for walls and slabs, conforming to ASTM C33 unless noted otherwise.
  4. Submit to Architect/Engineer reinforcing steel shop drawings for approval and mix designs for review prior to placing any concrete.
  5. Arrangement and bending of reinforcing steel shall be in accordance with ACI 315 Detailing Manual, latest edition.
  6. Reinforcing steel shall be new and all bars shall be deformed and shall conform in ASTM 615 Grade 60.
  7. Unless noted otherwise, bar laps shall be Class B tension laps and shall be lapped with minimum lengths as listed in the schedule, where splices are required in reinforcing.
  8. Corner bars shall be provided for all horizontal reinforcing bars at the intersections and corners of all strip footings, beams, and walls unless noted otherwise. Corner bars shall be of the same size and grade as the horizontal reinforcing they connect. See Typical Details for more information.
  9. Provide suitable wire spacers, chairs, ties, brickettes etc. for supporting reinforcing steel in the proper position while placing concrete. Do not "wet stick" dowels.
  10. Typical minimum concrete protective covering for reinforcement shall be 1-1/2"; minimum cover shall be 2" on surfaces in contact with the earth and 3" at earth-formed surfaces.
  11. All welded wire fabric shall conform to ASTM A-185 and shall be lapped a minimum of (2) wire spaces.
  12. Provide minimum 10 mil vapor barrier below all concrete at grade level. Vapor barrier shall be continuous with 12" lap to accommodate pouring direction. Barrier shall only be cut at pile locations.
  13. Bonding agent shall be used where new concrete is placed against existing concrete.
  14. Chamfer all exposed concrete corners unless noted otherwise on Architectural Drawings.
  15. Material used for filling voids under concrete shall be extruded polystyrene insulation board in accordance with ASTM D6817 having a nominal minimum 0.9pcf and compressive strength of 3.6psi @ 1%. Basis of design: EPS15 with termiticide.
  16. The concrete slabs shall be finished flat and level within tolerance, to the elevation indicated on the drawings. The Contractor shall provide the means by which the maximum and minimum concrete slab thickness can be monitored and verified during and after the placing and finishing operations. See Specifications for floor levelness requirements.
  17. Early drying out of concrete, especially during the first 24 hours, shall be carefully guarded against. All surfaces shall be moist cured or protected using a membrane curing agent applied as soon as forms are removed. If membrane curing agent is used, exercise care not to damage coating.
  18. Cold weather concreting shall be in accordance with ACI-306. Hot weather concreting shall be in accordance with ACI-305R.
  19. Throughout construction, the concrete work shall be adequately protected against damage due to excessive loading, construction equipment, materials or methods, ice, rain, snow, excessive heat, and freezing temperatures.
  20. The Contractor shall prepare one (1) set of (3) concrete prisms for testing at 7 days and one (1) set for testing at 28 days and retain (1) set for reserve. Tests are to be conducted by the Contractor's Inspection and Testing Agency for each 100 cy of concrete placed but not less than (1) set per day of concrete placement.
  21. Prepare concrete test cylinders from each day's pour. Cylinders shall be properly cured and stored. Sample fresh concrete in accordance with ASTM C172.
  22. Retain laboratory to provide testing service. Slump per ASTM C143, air content per ASTM C231, cylinder tests per ASTM C39.
  23. EOR may erform periodic, visual inspection of the concrete reinforcement placement prior to pouring.
  24. Visual inspection by the EOR does not guarantee the Contractor's work or alleviate the Contractor from final responsibility to place reinforcement and concrete in accordance with the Contract Drawings and Specifications.
  25. Locations and sizes of openings, sleeves, etc. required for other trades must be verified by these trades before placing concrete.
  26. All slots, sleeves, trenches, and other embedded items shall be set and secured against movement before the concrete is placed. See Architectural, Electrical, Mechanical, Plumbing, and Vendor drawings for sizes and locations.
  27. As part of the submittal process, the Electrical and Mechanical Contractor(s) shall submit a proposed routing plan for all pipes, conduits, or other devices to be embedded in the concrete. The submittal shall show specific sizes and locations of all proposed embed items referencing proximity to beam, column, and slab edges.
  28. Conduits and pipes embedded in concrete slabs may be no larger than 1/3 of the slab thickness (based on the maximum outside diameter) and shall have a center-to-center spacing no less than three (3) conduit diameters. Regardless of diameter, the minimum clear spacing between conduits or reinforcing shall be one (1) inch.
  29. No aluminum conduits, devices, or fixtures may be embedded into the concrete so that the aluminum is in direct contact with the concrete.
  30. No conduits shall be placed in slabs within 12 inches of column face or face of bearing wall.
  31. Expansion Joint Filler shall be non-extruded premolded material composed of fiberboard impregnated with asphalt conforming to the requirements of ASTM D1751 unless noted otherwise.
B. PILE FOUNDATIONS
  1. Piling shall be treated timber and shall conform to ASTM D25 with a minimum butt diameter of 8 inches (Class 5). The tip of all piles shall be driven to an elevation of 35 ft below existing grade. Design Load = 8 tons as established by the Geotechnical Report by Southern Earth Sciences dated October 29,2024
  2. Note tension pile locations and note different required cut-off elevation for installation of test pile apparatus per Drawings.
  3. Vibration shall not exceed 0.25 in/sec peak particle velocity (PPV).
  4. All piles shall be treated to 0.8 CCA or approved equivalent and in accordance with AWPA Standard U1 and Use Category UC4B.
  5. A minimum of one (1) in-situ load test shall be performed in accordance with the Project Specifications for piles under static axial compression load. Install (2) probe piles minimum for each pile load test at the locations determined by the Engineer preceding the pile load test. Probe piles shall match diameter of project piles with a length a minimum 60 inches longer than project specified embedment.
  6. Axial pile load tests shall be performed in accordance with ASTM D1143 Method A: Quick Test holding period along with the Method #2 or #3, whichever is greater, per City of New Orleans Building Code. Test load and settlement to failure. The Pile Contractor shall provide complete testing materials and equipment as required, install test and reaction piles and perform the load tests only in the presence of the third-party inspector engaged by the Installer.
  7. Test piles shall be allowed to set a minimum of 14 days prior to testing. Test piles shall not become part of the permanent foundation. Test piles shall be cut off 3' below grade and contractor to regrade area to pre-construction conditions prior to demobilizing from site.
  8. Contractor's engaged professional Engineer shall prepare a stamped report stating findings and final pile embedment and final allowable load capacity.
  9. Trenching and other excavation coordination for foundations with Pile Foundations shall be the responsibility of the General Contractor.
  10. The report of the Geotechnical Engineer or pile load test report shall be forwarded to the Architect for review.
  11. Contractor is to notify "LA One Call" a minimum of 48 hours before pile driving operations commence.
C. METAL DECK
  1. Metal deck shall be designed and detailed in accordance with the "Design Manual for Floor Decks and Roof Decks" of the Steel Deck Institute (SDI), latest edition. All composite steel floor deck shall be in conformance with the "Specifications for Composite Steel Floor Deck" of the SDI, latest edition.
  2. Deck properties are based on products manufactured by Vulcraft. Decks by other manufacturer's may be supplied provided load carrying capacity based on manufacturer's standard load tables, deflection characteristics, and UL fire ratings equal or exceed those of materials specified and if approved by the Architect and Structural Engineer.
  3. Install in accordance with SDI suggested Specifications unless noted otherwise on the drawings. Individual deck sheets shall extend over at least three spans, with laps to be placed over supports.
  4. Deck supplier shall provide all additional framing, closure angles and plates, pour stops, screed angles, and roof sump pans as required at the edges of all openings and at all slab depressions, or changes of deck direction, including those which have not been detailed.
  5. All metal decks shall be attached to supports, including the edge support parallel to the deck span with fasteners as indicated in the drawings.
  6. Steel deck supplier shall submit shop drawings indicating the shear stud placement if shear studs are present.
  7. Steel roof deck shall be supported around all opening, columns, roof penetrations, hips, and valleys.
  8. Roof and floor deck openings larger than 12" which are not shown on the drawings shall be brought to the attention of the EOR.
  9. No mechanical or electrical piping, fixtures, units or systems may be hung directly from the roof deck.

C. STRUCTURAL STEEL FRAMING
  1. Fabrication and erection of structural steel shall conform to "The Manual of Steel Construction", Fourteenth Edition, American Institute of Steel Construction (AISC) including Specifications for Structural Steel Buildings, Specification for Structural Joints Using ASTM A325 or A490 Bolts, and AISC Code of Standard Practice.
  2. All welding shall be performed by certified welders and shall conform to "AWS D1.1/D1.1M Structural Welding Code – Steel", American Welding Society (AWS), latest edition.
  3. All high-strength bolts shall be manufactured, installed, and field tested in accordance with the "Specification for Structural Joints using High Strength Bolts", RSCS, latest edition.
  4. Wide flange and S- shapes: ASTM A992 or A572, Grade 50
  5. Structural C and L shapes & plates: ASTM A36
  6. Steel pipe: ASTM A53, Grade B (35 ksi yield)
  7. Steel tubing (square or rect.): ASTM A500, Grade B (46 ksi yield)
  8. Steel tubing (round): ASTM A501
  9. Galvanized structural steel:
    A. Structural shapes and rods ASTM A123
    B. Bolts, fasteners and hardware ASTM A153
  10. Anchor rods shall conform to ASTM F1554, unless noted otherwise.
  11. Anchor bolts shall be headed with a nut and washer at the lower end.
  12. Steel members shown on plan shall be equally spaced unless noted otherwise.
  13. Erector shall provide a Certified Welding Inspector and Quality Control Expert (AWS Certified) for the visual inspection welds.
  14. All bolted connections shall be with ASTM A325 high strength bolts, 3/4" minimum diameter, unless noted otherwise.
  15. All bolts are considered snug-tightened, unless noted otherwise.
  16. Oversized holes shall not be provided without approval of the EOR. If oversized holes are elected and approved, bolts shall be slip-critical.
  17. Where possible, all bolt holes in structural steel shall be drilled or punched in the shop. Any holes required to be made a the project site shall be mechanically drilled or punched. No burning of holes shall be allowed.
  18. All connections shall be symmetrical about the axis of the member connected. Provide only one grade of bolt for each bolt diameter to be used in the connections. Do not mix grades of bolts.
  19. Unless noted otherwise, all cap and base plates shall be welded to the columns continuously all around with a 1/4" fillet weld.
  20. Welding electrodes shall be E70XX for manual arc welding and F7X-EXXX for submerged arc welding. All welders shall be certified by the AWS. Minimum weld size shall be 3/16" unless noted otherwise.
  21. Field welded surfaces within 4 inches of weld shall be cleaned and ground smooth. After welding coat the exposed area with appropriate primer/paints as specified.
  22. All welds shall be visually inspected as required by AWSD1.1 and in accordance with AWS B1.1 "Guide for the Visual Examination of Welds", unless noted otherwise.
  23. Unless noted otherwise, every weld shall develop the full strength of the lesser of the members it joins. All butt, groove, or bevel welds shall be complete, full penetration.
  24. Submit shop drawings for fabrication and erection of structural steel. Clearly indicate coordinated dimensions of mechanical unit and roof penetration sizes. Shop and Erection drawings must show all shop/floor and field welds. Initial shop drawing submittal shall include proposed connection details and job standards. Provide signed and sealed calculations for all non-standard connection details showing design capacities.
  25. Splices in structural steel not shown on the structural drawings will not be accepted without specific approval of the Structural Engineer. Submitted splices shall be designed the Fabricator's delegated design engineer and stamped by an Engineer licensed in Louisiana.
  26. The General Contractor and Steel Erector shall notify the Structural Engineer of any fabrication or erection errors or deviations and receive written approval before any field corrections are made.
  27. Alternate connection details may be used if such details are submitted to the engineer for review and approval. However, the engineer shall be the sole judge of acceptance and the Contractor's bid shall anticipate the use of those details shown on the drawings. The Contractor is responsible for the design of such alternate details which they propose and provide stamped drawings for approval.
  28. Main support members for the metal deck are shown. During preparation, submission, and review of shop drawings, any additional angles or miscellaneous attachment details required to support the metal deck at the required elevation shall be provided by the Structural Steel Contractor.
  29. All steel shall be painted with shop standard primer unless noted otherwise.
  30. Steel angles, plates, and lintels along with bolts and washers, in direct contact with exterior finish masonry, shall be hot-dipped galvanized per ASTM A123 and A153.
  31. All column base plates and anchor rods shall be hot-dipped galvanized per ASTM A123 and A153.
  32. All exterior framing (beams & columns) shall be painted per Architectural specification.
  33. Spandrels and columns adjacent to masonry shall have adjustable masonry ties.
  34. All dissimilar metals shall be treated or properly separated to prevent galvanic and/or corrosive effects.
  35. All floor and roof decks shall be attached to supports, including the edge support parallel to the deck span, with powder actuated fasteners equal to HILTI X-ENP19 for attachment to steel beams or HILTI X-HSN 24 for attachment to bar joists at 12 inches o.c. interior (36/4 pattern) and 6" o.c. at edge of deck sheet. Fasten side laps with #10 self-tapping screws @ 32" o.c. maximum spacing.
  36. All powder actuated fasteners shall have a minimum shank diameter of 0.157" unless noted otherwise.
D. WOOD FRAMING
  1. All wood framing fabrication and erection shall conform to the "National Design Specification (NDS) for Wood Construction" by the AFPA, the Plywood Design Specification by the APA, and the "Timber Construction Manual" as adopted by the American Institute of Timber Construction, including the AITC 106 "Code of Standard Practice" and ANSI/AITC A190.1 "American National Standard, Structural Glued Laminated Timber" by American Institute of Timber Construction.
  2. See IBC International Building Code for minimum bracing and fastening requirements. Provide nailing patterns in compliance with IBC recommended fastening schedule.
  3. Framing Lumber - Southern Yellow Pine grade marked and kiln dried, S4S, No. 2, maximum moisture content 19%. All member piece ends, joints, or splices shall be over supports unless noted otherwise.
  4. Unless noted otherwise, multiple pieces of dimensional lumber used to form beam or header members shall be attached together with 4 rows of 16d nails spaced at 16" for pieces up to 12" deep, 5 rows of 16d nails at 16" for pieces 14" and 16" deep and 6 rows of 16d nails spaced at 16" for pieces 18" deep (respectively).
  5. Unless noted otherwise, multiple pieces of engineered lumber shall be fastened together per provided fastening schedule and in accordance with manufacturer requirements.
  6. Members shall be set with crown up and have a minimum of 3 inches bearing.
  7. Provide solid wood blocking or diagonal bridging for dimensioned lumber floor joists at intervals not exceeding 8'-0" o.c. max during construction. Blocking shall remain.
  8. All plywood sheathing shall comply with APA and have exterior glue.
  9. Plywood Roof Sheathing - APA rated 32/16, 19/32" (5/8" nominal) thick. Fasten with #12 wood-to-steel screws at 6" o.c. at panel edges and 12" o.c. at intermediate supports for main roof areas. At corners and edges, fasten with #12 wood-to-steel screws at 6" o.c. at panel edges and 6" o.c. at intermediate supports. The use of staples will not be allowed. Vertical joints of plywood roof sheathing shall be staggered every four feet or less. Roofing fasteners shall extend minimum 1-1/2" into supports.
  10. OSB will not be accepted as a substitution for plywood without approval by the EOR.
  11. LVL Members - All members designated as "LVL" shall be laminated veneer lumber having properties and strength equal to Trus Joist "Microllam" with a minimum designated modulus of elasticity of 2000 ksi (2.0E) for all headers and beams. LVL members shall be glued and nailed together following the manufacturer's instructions.
  12. Wood trusses shall be attached to supports with specified galvanizes metal connectors.
  13. Every truss member shall be sized and braced such that the ratios of its length to its depth (l/d) is less than 50.
  14. The design, configuration, layout and spacing of all trusses shall be coordinated by the truss designer with the mechanical, ductwork and all architectural drawings.
  15. All connection bolts for timber framing members shall be minimum 3/4"Ø ASTM A307 bolts.
  16. All bolts and lag bolts shall be fitted with galvanized, malleable iron or steel plate washers.
  17. All hangers, clips, connectors, anchors, ties, etc. shall be attached with nails of the maximum size and type recommended by the manufacturer. All holes in connectors shall be filled.
  18. All treated wood members shall be connected or fastened with galvanized hangers, nails, screws, bolts, and all other accessories. The coating must be hot-dipped to an equivalent of G-90 rating or greater.
E. ADHESIVE ANCHORS AND DOWELS
  1. Substitution of expansion or adhesive anchors for embedded anchors shall not be permitted unless specifically approved in writing by the Structural Engineer of Record prior to pouring the concrete containing the anchors.
  2. Unless noted otherwise, Hilti HIT-HY 270 epoxy system shall be used for an adhesive anchor in brick and concrete masonry.
  3. Unless noted otherwise, Hilti HIT-HY 200 V3 epoxy system or Hilti KWIK-X dual action anchor safeset system with KHC capsule adhesive and KWIK-HUS EZ shall be used for an adhesive anchors or dowels in concrete.
  4. Where base material is hollow block brick or other material containing pockets or voids, a screen tube, per manufacturer's recommendations, shall be employed in the system.
  5. The spacing, minimum embedment, and installation of the anchors shall be in accordance with the manufacturer's recommended procedures and in accordance with the plans.
  6. Anchor rods used in adhesive anchorage systems shall conform to ASTM F1554 steel.
  7. Use of diamond core bit with roughening tool for anchor holes requires approval from engineer of record prior to drilling. Unless otherwise shown in the drawings, all holes shall be drilled perpendicular to the concrete surface.
  8. Overhead adhesive anchors must be installed using the Hilti Profi piston plug system.

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Hermann Alb, PE

GENERAL NOTES

SHEET NUMBER:
S000

Y	STEEL CONTSTRUCTION: Special Inspection is required.					
	Type	Continuous	Periodic	Responsible Party	Reference Standard	Code
Y	Minimum inspections prior to welding.	X		Special Inspector	AISC 360 Table N5.4-1	1705.2.1
Y	Minimum inspections during welding.	X		Special Inspector	AISC 360 Table N5.4-2	
Y	Minimum inspections after welding.		X	Special Inspector	AISC 360 Table N5.4-3	
Y	UT shall be performed on CJP groove welds subjet to transversely applied tension loading in butt, T-, and Corner joints.			Special Inspector	AISC 360 N5.5b	
N/A	a. For Risk Category III or IV structures		X 100%			
Y	b. For Risk Category II structures		X10%			
Y	Minimum inspections prior to high-strength bolting (except for snug-tight joints).	X		Special Inspector	AISC 360 Table N5.6-1	
Y	Minimum inspections during high-strength bolting (except for snug-tight joints). For pretension/slip-critical joints:			Special Inspector	AISC 360 Table N5.6-2	
Y	a. Turn-of-nut with match marking, direct-tension-indicator method, twist-off-type tension control bolt method.	X	X			
N/A	b. Calibrated wrench method, turn-of-nut method without matchmaking.					
Y	Minimum inspections after high-strength bolting.		X	Special Inspector	AISC 360 Table N5.6-3	
Y	Inspect fabricated or erected steel as appropriate to verify compliance with the construction drawings. Inspect braces, stiffeners, member locations, and joint details.		X	Special Inspector	AISC 360 N5.7	
Y	Inspect during placement of anchor rods and other embedments supporting structural steel for compliance with the construction dwgs.	X		Special Inspector	AISC 360 N5.7	
N/A	Inspect welding of steel headed stud anchors.	X		Special Inspector	AISC 360 N6 AWS D.1/D1.1M	
Y	Verification for metal deck:			Special Inspector	AISC 360 N6	
Y	a. Welding consumables, welding procedure specs, welder's qualifications prior to work, observation of work in progress, and visual inspection of all welds.	X				
Y	b. Fasteners to be used prior ro work, observation of work in progress to confirm conformance to manufacturer's recommendations, and visual inpsection of complete...	X				

Y	WOOD CONSTRUCTION: Special Inspection is required.					
	Type	Continuous	Periodic	Responsible Party	Reference Standard	Code
N/A	Inspect high-load diaphragms for grade/thickness of sheathing, nominal size of members, fastener size, number and spacing.		X	EOR	Constr. Docs	1705.5.1, 2306.2
Y	Metal-plate-connected wood trusses spanning 60 feet or greater: temporary installation restraint / bracing and permanent individual truss member restraint /...		X	Special Inspection	App. Truss submittal...	1705.5.2

Y	DRIVEN DEEP FOUNDATION ELEMENTS: Special Inspection and Testing are required.					
	Type	Continuous	Periodic	Responsible Party	Reference Standard	Code
Y	Verify element materials, sizes and lengths comply with the requirements.	X	-	Testing Lab	Geotech Report, Contract Docs	Table 1705.7
Y	Determine capacities of test elements and conduct additional load tests, as required.	X	-	Testing Lab		
Y	Inspect driving operations and maintain complete and accurate records for each element.	X	-	Testing Lab		
Y	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...	X	-	Testing Lab		
N/A	For steel elements, perform additional special inspections in accordance with Section 1705.2. (See Special Inspections for Concrete Construction.)	-	-	Special Inspection		
N/A	For concrete elements and concrete-filled elements, perform test and additional with Section 1705.3. (See Special Inspections for Concrete construction)	-	-	Special Inspection		
N/A	If applicable, RDP to identify: specialty elements, additional insp.	-	-	Special Inspection		

Y	WIND-FORCE- RESISTANT ITEMS: Special Inspection is required.				
	Type	Continuous	Periodic	Responsible Party	Code
Y	Structural wood	X	X	EOR	1705.11.1
Y	Cold-formed steel light-frame construction		X	EOR	1705.11.2
Y	Components: Roof covering, roof deck and roof framing connections		X	EOR	1705.11.3
Y	Components: Exterior wall covering and wall connections to roof and floor diaphragms and framing.		X	EOR	1705.11.3
N/A	SEISMIC-FORCE- RESISTANT ITEMS: Special Inspection is NOT required. SDC = C & Design R <= 3				

Y	CONCRETE CONSTRUCTION: Special Inspection and Testing is required.					
	Type	Continuous	Periodic	Responsible Party	Reference Standard	Code
Y	Inspect reinforcement, including restressing tendons, and verify placement	-	X	EOR	ACI 318 Ch. 20, 25.2,...	1908.4
Y	Reinforcing bar welding:			Special Inspector	AWS D1.4 ACI 318:26.5.4	
	a. Verify weldability of reinforcing bars other than ASTM A706;		X			
	b. Inspect single-pass fillet welds, maximum 5/16"; and	X	X			
	c. Inspect all other welds					
Y	Inspect anchors cast in concrete.	-	X	EOR	ACI 318:17.8.2	-
Y	Inspect anchors post-installed in hardened concrete members.			Special Inspector	ACI 318: 7.8.2.4 ACI 318 : 17.8.2	Table 1705.3 footnote 'b'.
	a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X				
	b. Mechanical and adhesive anchors not defined in 4a.		X			
Y	Verify use of required design mix.	-	X	Testing Lab	ACI 318: Ch. 19, 26.4....	1904.1, 1904.2, 1908.2, 1908.3
Y	Prior to concrete placement, fabricate specimens for strength test, perform slump and air content test, and determine the temperature of the concrete.	X	-	Testing Lab	ASTM C172 ASTM C31...	1908.10
Y	Inspect concrete and shotcrete placement for proper application techniques.	X	-	Special...	ACI 318: 26.4.5	1908.6, .7, and .8
Y	Verify maintenance of specified curing temperature and techniques.	-	X	Special...	ACI 318: 26.4.7-26.4.9	1908.9
N/A	Inspect pre-stressed concrete for:			Special Inspector	ACI 318: 6.9.2.1 ACI 318: 6.9.2.3	
	a. Application of pre-stressing forces; and	X	-			
	b. Grouting of bonded pre-stressing tendons	X	-			
N/A	Inspect erection of precast concrete members.	-	X	Special...	ACI 318: 6.8	-
N/A	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	Special...	ACI 318: 26.10.2	-
Y	Inspect formwork for shape, location and dimensions of the concrete member being formed.		X	Special...	ACI 318: 26.10.1 (b)	-

Y	SOILS: Special Inspection and Testing are required.					
	Type	Continuous	Periodic	Responsible Party	Reference Standard	Code
Y	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X	Testing Lab	Geotech Report, Contract Docs	Table 1705.6
Y	Verify excavations are extended to proper depth and have reached proper material.	-	X	Special Inspection		
Y	Perform classification and testing of compacted fill materials.			Testing Lab		
Y	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	-	Testing Lab		
Y	Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	-	X	Testing Lab		
Y	During fill placement inspector shall verify that proper materials and procedures.	X		Special Inspection		

STATEMENT OF SPECIAL INSPECTIONS

1. Special inspections and structural testing shall be provided by an independent agency employed by the Owner for the items identified in this section and in other areas of the approved construction plans andspecifications, unless waived by the Building Official (see IBC Chapter 17).
2. All referenced Standards shall refer to the latest Edition adopted by IBC 2021.
3. Special Inspections that are intended to be performed by Batture are designated in the schedule below. Otherwise, "Special Inspector" shall refer to the independent agency employed by the Owner. The Owner may also hire an indepedent agent for all special inspections if the EOR and Building Official is notified in writing.
4. Duties of the Special Inspector:
   - A. The Special Inspector shall review all work listed below for conformance with the approved construction plans and specifications and the 2021 IBC.
   - B. The Special Inspector shall furnish special inspection reports to the EOR, Contractor, Owner and Building Official as required by the Building Official. All items not in compliance shall be brought to the immediate attention of the Contractor for correction, and if uncorrected, to the EOR and the Building Official.
   - C. Once corrections have been made by the Contractor, the Special Inspector shall submit a final signed report to the Building Official stating that the work requiring special inspection was, to the best of the Special Inspector's knowledge, in conformance with the approved construction plans and specifications as well as the applicable workmanship provisions of the IBC.
5. Duties and responsibilities of the Contractor:
   - A. The Contractor shall submit a written statement of responsibility to the Owner and the Building Official prior to the commencement of work. In accordance with IBC 1704.4, the statement of responsibility shall contain acknowledgement of the special inspection requirements contained within this "Statement of Special Inspections".
   - B. The Contractor shall notify the responsible Special Inspector or EOR that work is ready for inspection at least five working days before such inspection is required.
   - C. All work requiring special inspection shall remain accessible and exposed until it has been observed by the Special Inspector or EOR.
   - D. Please see the "Special Inspection Schedule" for the types, extents and frequency of specific items requiring special inspections as part of this project.

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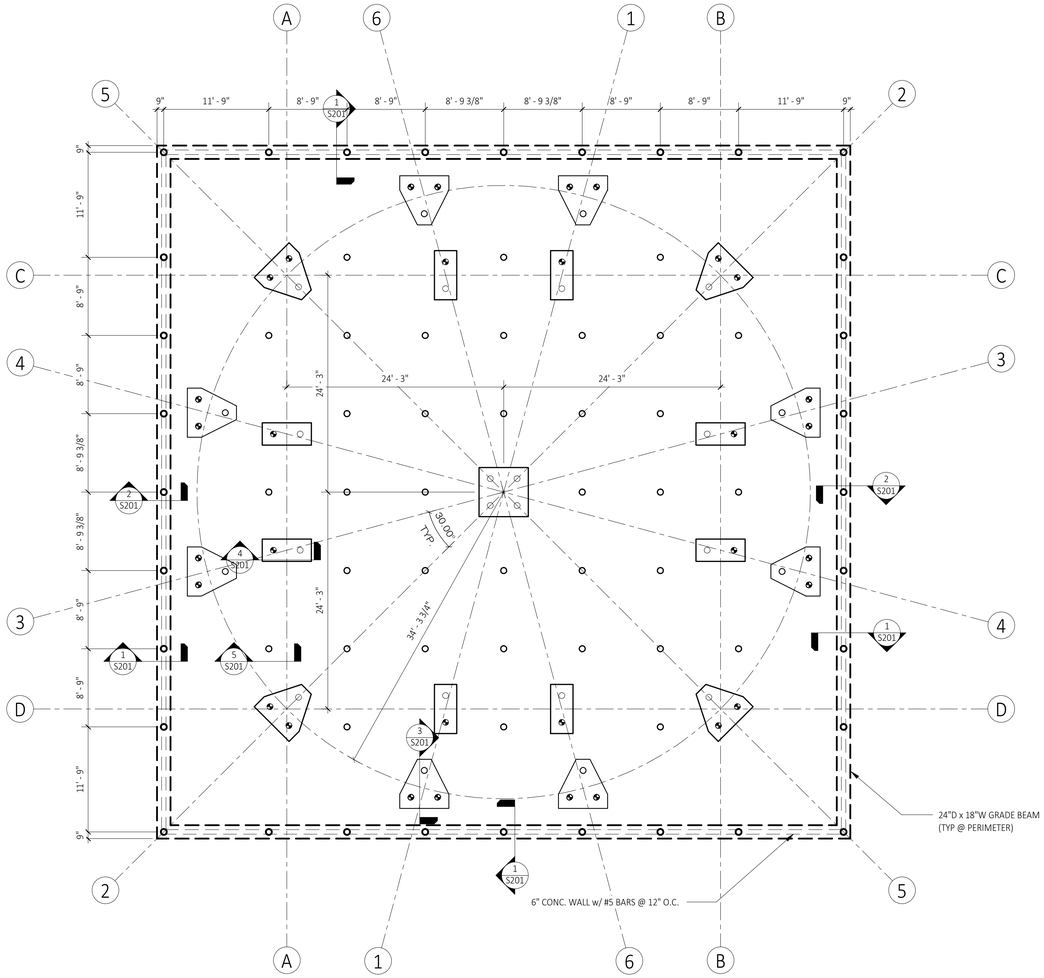
SCHEDULE OF SPECIAL INSPECTIONS

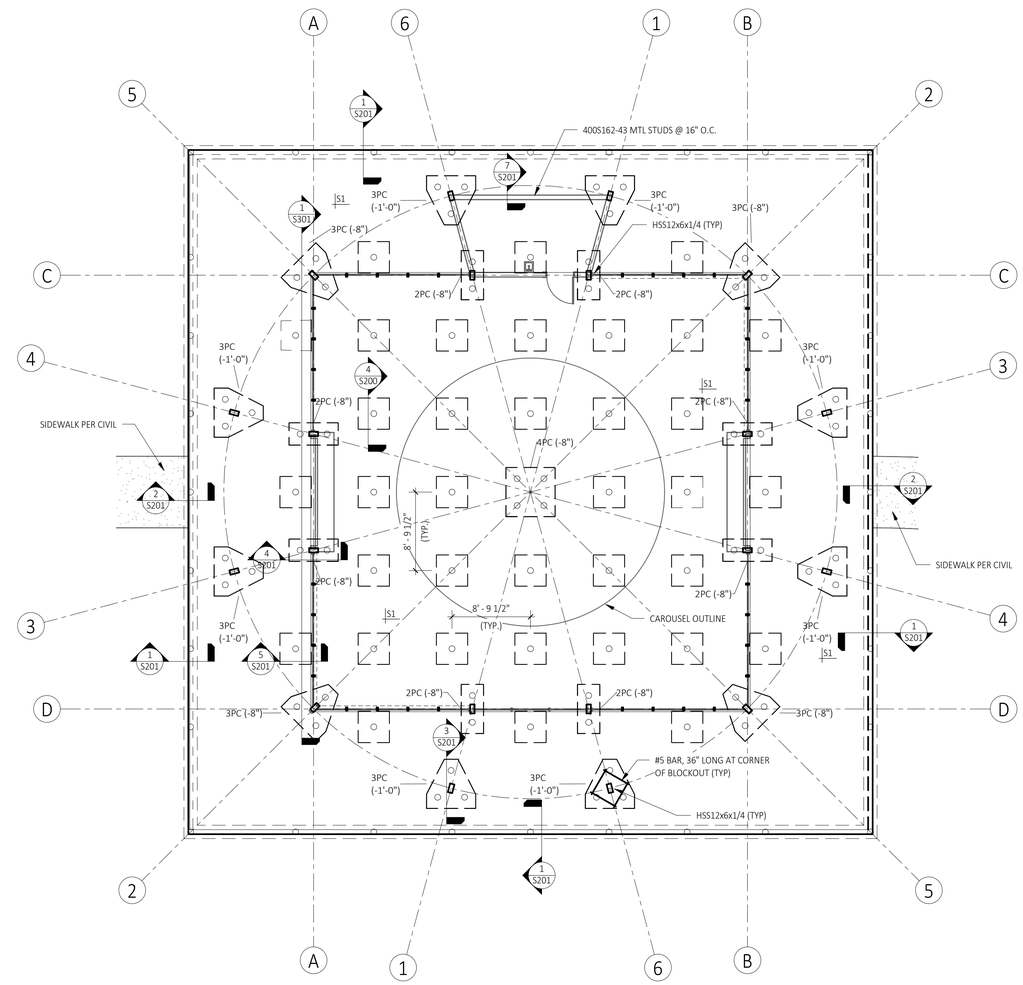
SHEET NUMBER:
S001

FOUNDATION AND GROUND FLOOR PLAN NOTES

1. 1ST FLOOR SLAB ELEVATION IS REFERENCED AS ELEVATION (0'-0").
2. TOP OF SLAB ELEVATION IS AT DATUM UNLESS NOTED THUS X'-XX" ON PLAN
3. BOTTOM OF BASE PLATE ELEVATION IS -0'-7-1/2" UNLESS NOTED THUS [X'-XX"] ON PLAN
4. TOP OF PILECAP ELEVATION IS IS -0'-8" UNLESS NOTED THUS [X'-XX"] ON PLAN
5. |S1 DENOTES 6" SLAB w/ #5 BARS @ 12" O.C. AT MIDHEIGHT. PROVIDE VAPOR RETARDER BELOW SLAB.
6. ○ DENOTES SINGLE GRADE BEAM OR SLAB PILE. CLASS 5, 35FT EMBEDMENT. DESIGN CAPACITY OF 8 TONS [TOTAL PILE COUNT = 124]
7. COORDINATE SLAB DEPRESSIONS, EMBEDMENT REQUIREMENTS AND OPENING WITH ARCH AND MEP DWGS
8. DENOTES SLOPE TO LOW POINT
9. SLOPE DENOTES CHANGE IN ELEVATION
10. COORD ALL NEW AND EXISTING UNDERGROUND UTILITIES WITH FOUNDATIONS AND SUBMIT ALL-PURPOSED SLEEVE LOCATIONS TO ARCH/ENG FOR REVIEW.
11. VERIFY ELEVATOR PIT DIMENSIONS WITH ELEVATOR SHOP DRAWINGS PRIOR TO FORMING.
12. REFER TO STRUCT SPECS, GENERAL NOTES, AND SCHEDULES FOR OTHER INFORMATION NOT SHOWN.



1 FOUNDATION PLAN
S100 1/8" = 1'-0"



2 FLOOR PLAN
S100 1/8" = 1'-0"

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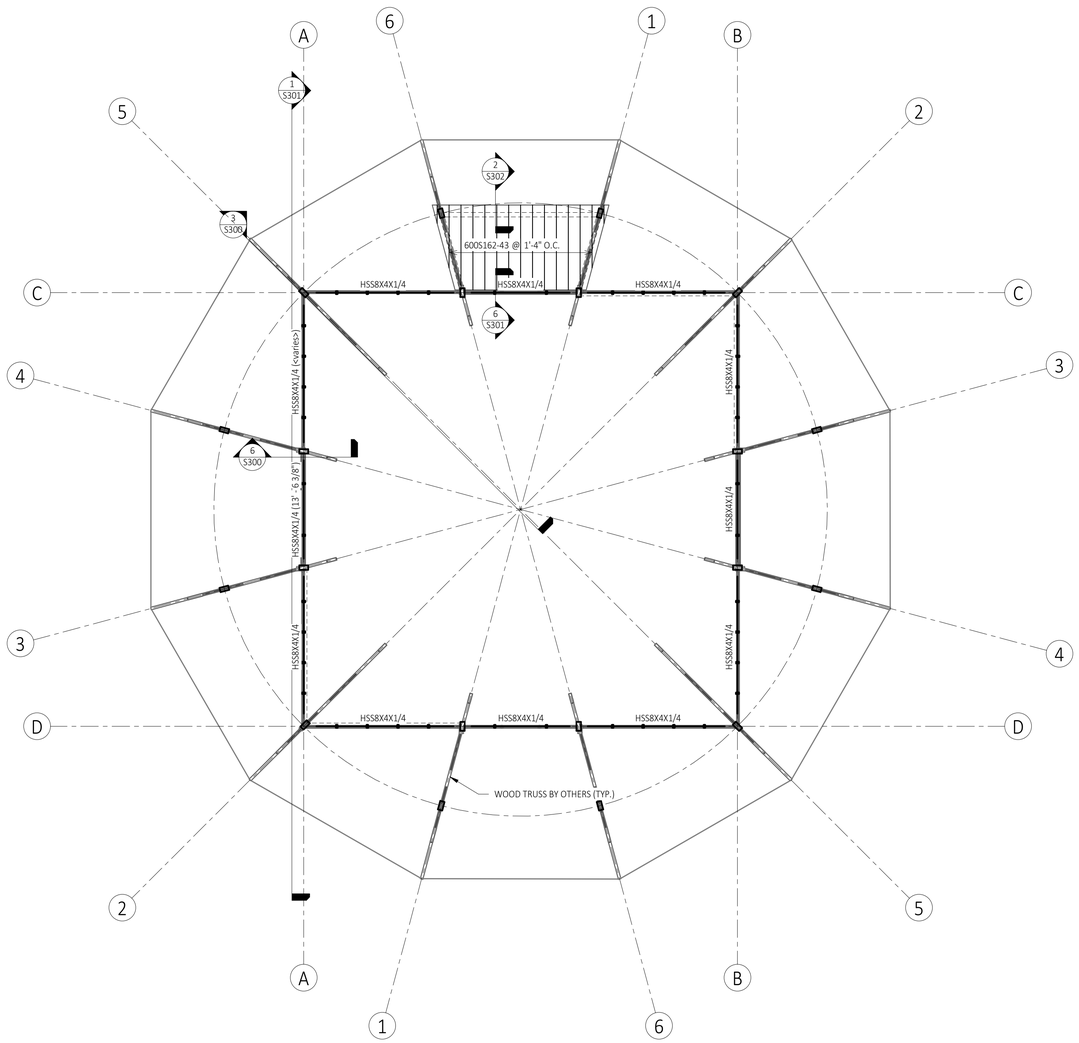
FOUNDATION & FLOOR PLAN

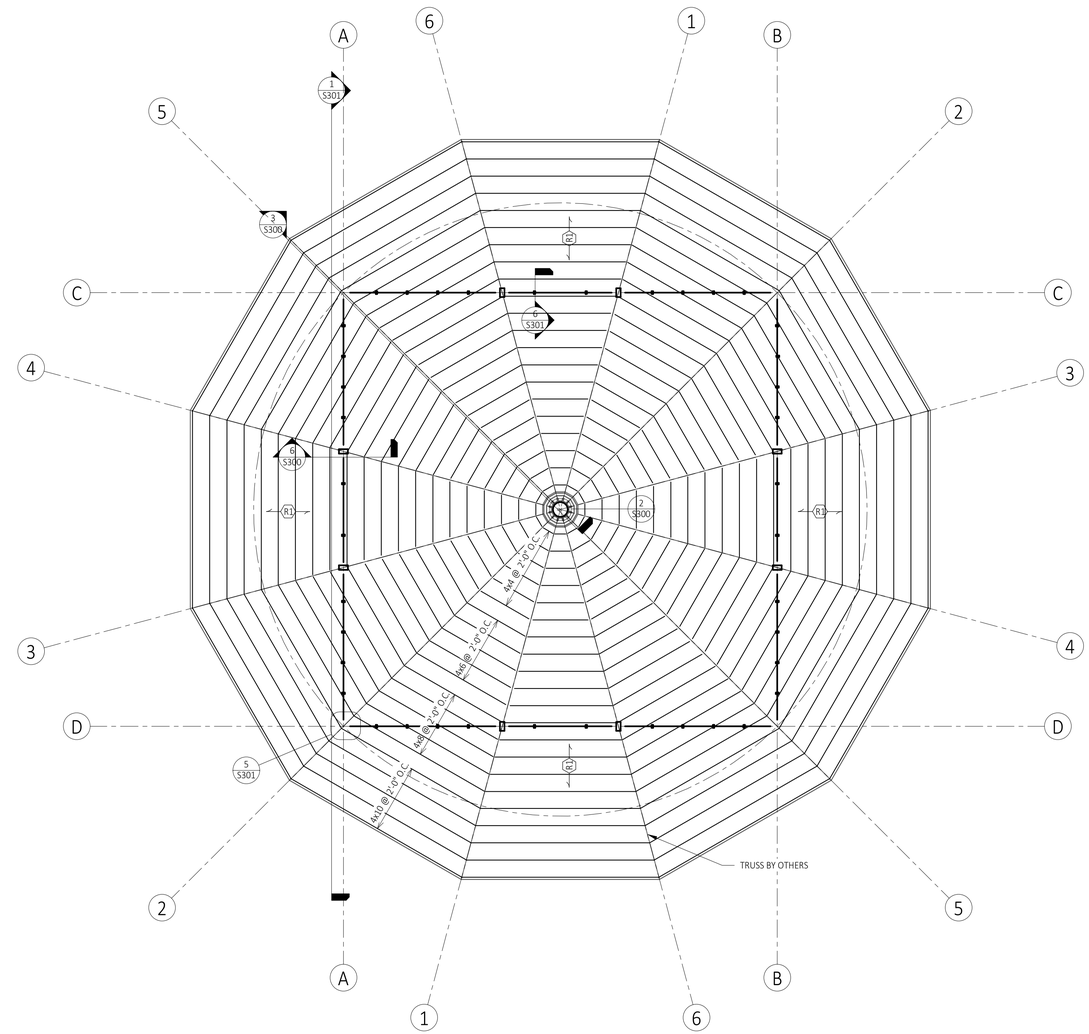
SHEET NUMBER:
S100

FRAMING PLAN NOTES:

1. SLOPE DENOTES SLOPE TOP LOW POINT
2. R1 DENOTES SPAN OF 1.0RD 22 GA GALVANIZED TYPE ROOF DECK.
3. ALL ROOF DECK SHALL BE ATTACHED TO WOOD SUPPORTS, INCLUDING THE EDGE SUPPORT PARALLEL TO THE DECK SPAN, WITH #10 SCREWS AT 12 INCHES OC INTERIOR (36/4 PATTERN) AND 6 INCHES OC AT EDGE OF DECK SHEET. FASTEN SIDE LAPS WITH #10 SELF-TAPPING SCREWS AT 36 INCHES OC MAXIMUM SPACING.



1 TOP OF WALL FRAMING PLAN
S101 1/8" = 1'-0"



2 ROOF FRAMING PLAN
S101 1/8" = 1'-0"

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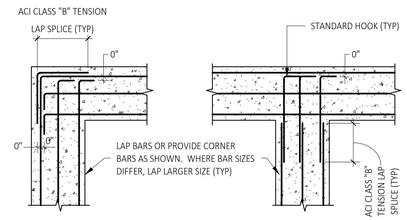
ROOF FRAMING PLAN

SHEET NUMBER:
S101

CONCRETE REINFORCING STEEL LAP SPLICES		
BAR SIZE	MIN LAP SPLICE LENGTH (IN.)	
	TOP BARS	OTHER BARS
3	15	12
4	25	18
5	35	27
6	40	32
7	48	37
8	60	46
9	74	57
10	88	68
11	104	80

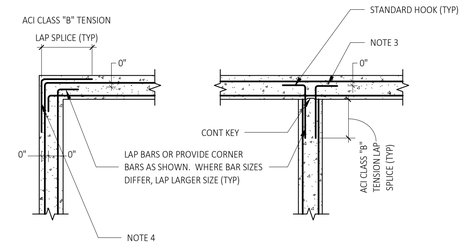
NOTES:
1. Table based on ACI 318-19
2. f'c = 4000 psi min, fy = 60000 psi
3. 3/4" min. concrete clear cover for #3 to #5 sizes; 1-1/2" min. concrete clear cover for #6 and larger.
4. Top bars are considered to be horizontal bars with more than 12" depth of concrete cast below the reinforcement.
5. Horizontal wall reinforcement is considered a top bar.

1 S200 **TYPICAL DETAIL**
Concrete Reinforcing Lap Splice Schedule



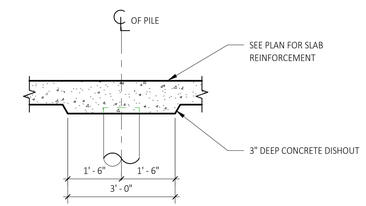
NOTES:
1. ALL DOWELS, CORNER BARS AND "U" BARS SHALL BE SAME SIZE AND SPACING AS CONT. FOOTING REINFORCING
2. NOT ALL REINFORCING SHOWN FOR CLARITY

2 S200 **TYPICAL DETAIL**
Concrete Strip Footing Reinforcing

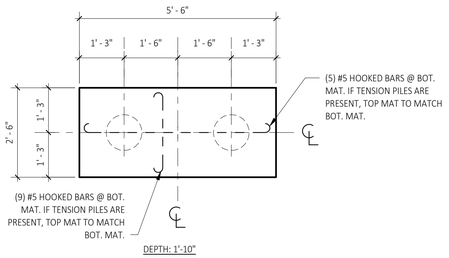


NOTES:
1. ALL DOWELS, CORNER BARS AND "U" BARS SHALL BE SAME SIZE AND SPACING AS HORIZ REINFORCING
2. NOT ALL REINFORCING SHOWN FOR CLARITY
3. ALTERNATE HOOK DIRECTIONS AT INTERSECTIONS FOR WALLS WITH SINGLE LAYER OR REINFORCING
4. PROVIDE CORNER BARS FOR WALLS WITH SINGLE LAYER OF REINFORCING
5. PROVIDE STANDARD HOOK AT WALL END FOR WALLS WITH SINGLE LAYER OF REINF

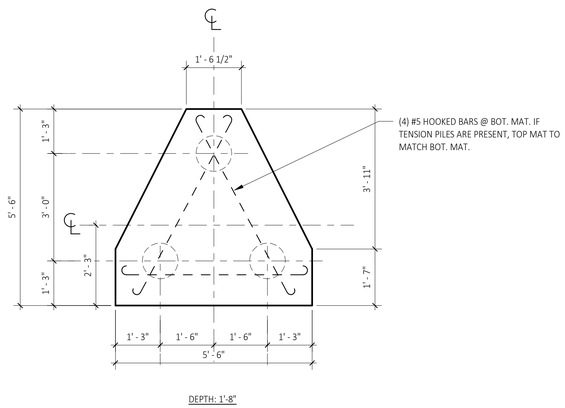
3 S200 **TYPICAL DETAIL**
Concrete Wall Reinforcing



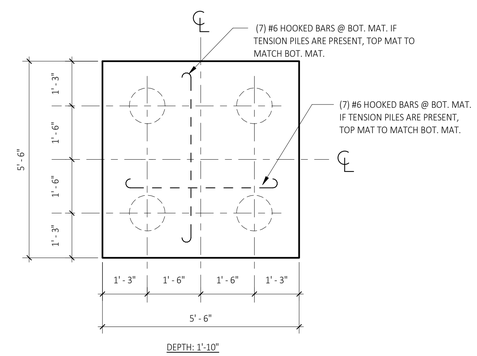
4 S200 **TYPICAL DETAIL**
Slab Dishout



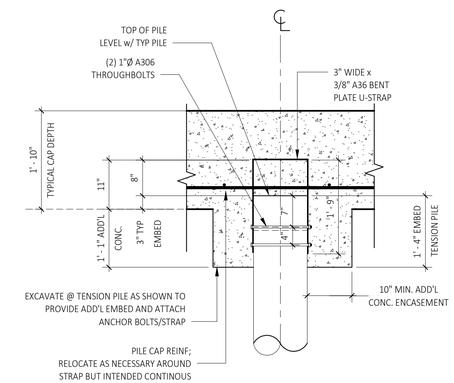
5 S200 **TYPICAL DETAIL**
2PC



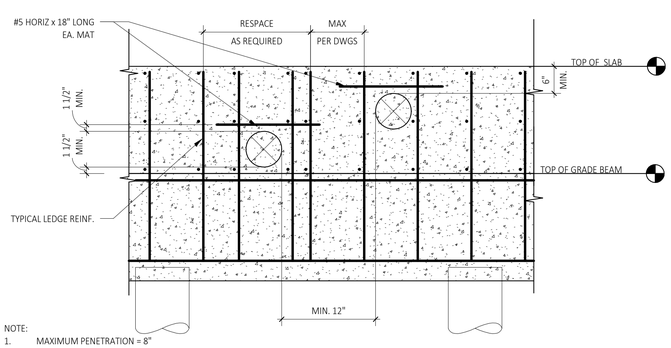
6 S200 **TYPICAL DETAIL**
3PC



7 S200 **TYPICAL DETAIL**
4PC

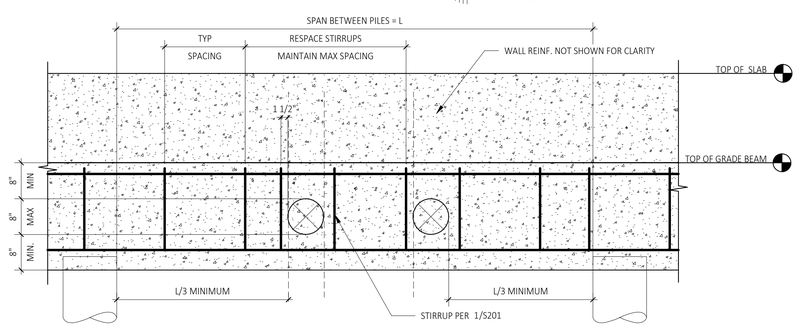


11 S200 **TYPICAL DETAIL**
Tension Pile



NOTE:
1. MAXIMUM PENETRATION = 8"
2. MAX NUMBER OF PENETRATONS IN A GROUP = 2

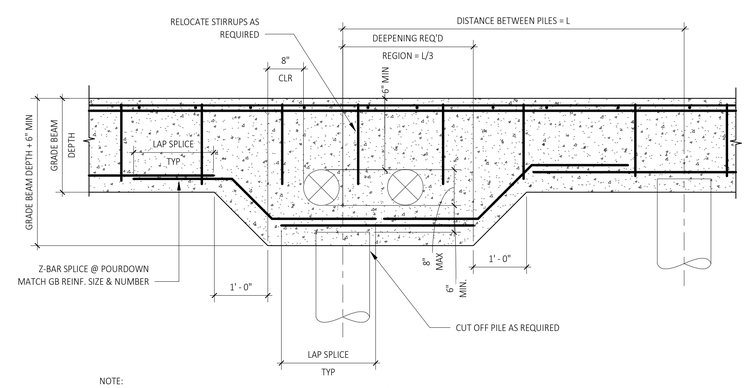
8 S200 **TYPICAL DETAIL**
PENETRATION IN PERIMETER CHAIN WALL



ELEVATION VIEW OF TYPICAL GRADE BEAM

NOTE:
1. DETAIL SHOWS MINIMUM REQUIREMENTS FOR PIPE PENETRATIONS THAT DO NOT REQUIRE REINFORCEMENT.
2. MAXIMUM (2) PENETRATIONS IN A GROUP. ANY GROUP LARGER THAN (2) SHALL BE BROUGHT TO THE ATTENTION OF THE EOR.
3. NO HORIZONTAL PENETRATIONS SHALL BE ALLOWED IN THE SLAB.
4. SEE TYPICAL DETAIL FOR VERTICAL PIPE PENETRATIONS FOR ADDITIONAL REQUIREMENTS.

9 S200 **TYPICAL DETAIL**
GRADE BEAM HORIZTONAL PENETRATIONS



NOTE:
1. GRADE BEAM DEEPENING REQ'D FOR ANY PENETRATION WITHIN L/3 OF SUPPORT WHERE L = MAXIMUM SPAN BETWEEN PILES.
2. GRADE BEAM DEEPENING REQ'D FOR ANY PENETRATION THAT INTERRUPTS BOTTOM CONT. REINF. REGARDLESS OF LOCATION IN GRADE BEAM SPAN.
3. MAXIMUM (2) PENETRATIONS IN A GROUP

10 S200 **TYPICAL DETAIL**
DEEPENING AT HORIZONTAL GRADE BEAM PENETRATION OVER PILE

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REV. NO.	DATE	DESCRIPTION

JOE BROWN PARK CAROUSEL ENCLOSURE
5601 READ BLVD., NEW ORLEANS, LA 70127

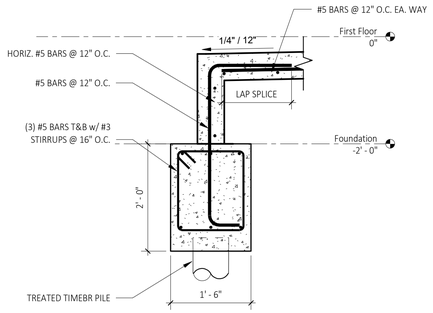
DRAWN BY: BATTURE
CHECKED BY: BATTURE
DATE: 4/2/25
ISSUE: CONSTRUCTION

STATE OF LOUISIANA
HERMANN ALB
License No. 38002
PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
04/02/2025

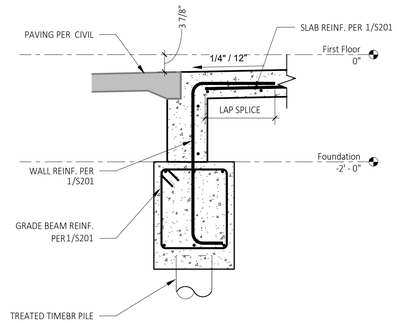
PROFFESIONAL OF RECORD
Hermann Alb, PE

FOUNDATION SECTIONS & DETAILS

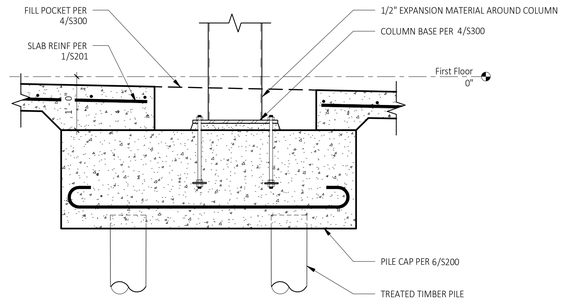
SHEET NUMBER:
S200



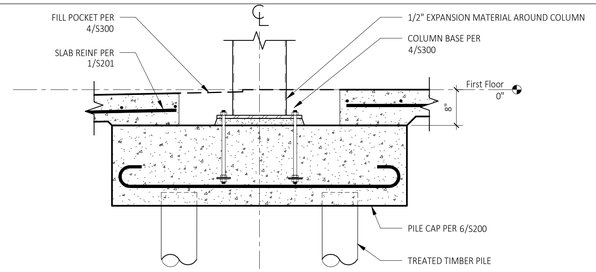
1 SECTION
S100 | S201 3/4" = 1'-0"



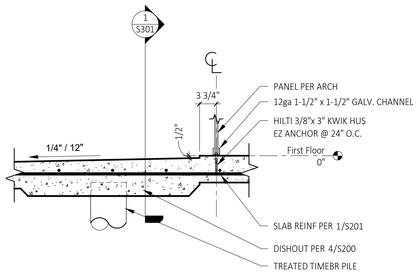
2 SECTION
S100 | S201 3/4" = 1'-0"



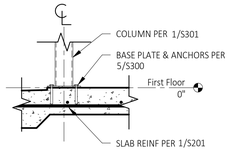
3 SECTION
S100 | S201 3/4" = 1'-0"



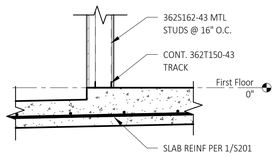
4 SECTION
S100 | S201 3/4" = 1'-0"



5 SECTION
S100 | S201 3/4" = 1'-0"



6 SECTION
S301 | S201 3/4" = 1'-0"



7 SECTION
S100 | S201 3/4" = 1'-0"

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REV. NO.	DATE	DESCRIPTION

JOE BROWN PARK
CAROUSEL ENCLOSURE
5601 READ BLVD., NEW ORLEANS, LA 70127

DRAWN BY:
BATTURE

CHECKED BY:
BATTURE

DATE:
4/2/25

ISSUE:
CONSTRUCTION

STATE OF LOUISIANA
HERMANN ALB
License No. 38082
PROFESSIONAL ENGINEER
04/02/2025
CIVIL ENGINEERING

PROFFESIONAL OF RECORD
Hermann Alb, PE

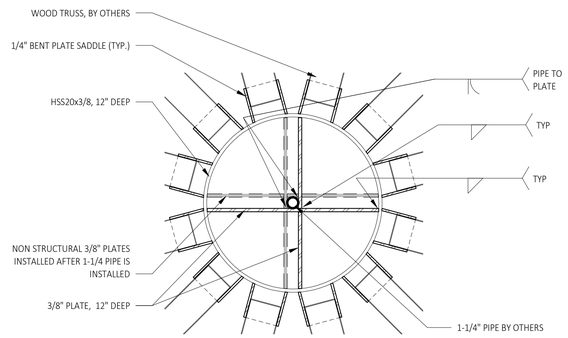
FOUNDATION
SECTIONS @
DETAILS

SHEET NUMBER:
S201

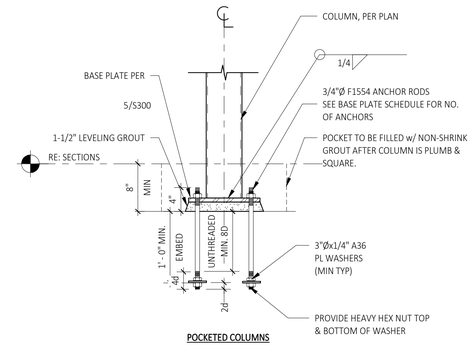
JOIST HANGER SCHEDULE		
MEMBER SIZE	SIMPSON BRAND	REMARKS
4x4	HU44TF	FACE MOUNT HANGER
4x6	HU46TF	FACE MOUNT HANGER
4x8	BA48	FACE MOUNT HANGER
4x10	BA410	FACE MOUNT HANGER

NOTE:
1. Where joist is between scheduled size, use next higher size.
2. Where joist is more narrow than scheduled hanger, provide wood shims as required.
3. Provide joist hangers at all wood to wood connections without existing hangers whether shown on plan or not.
4. Use maximum number of fasteners. Fill all holes.

1 S300 **TYPICAL DETAIL**
JOIST HANGER SCHEDULE

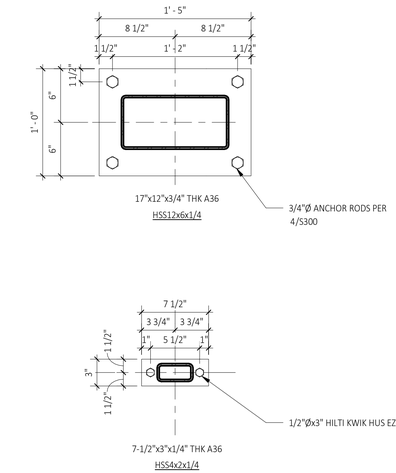


2 S101 | S300 COMPRESSION RING DETAIL
1 1/2" = 1'-0"

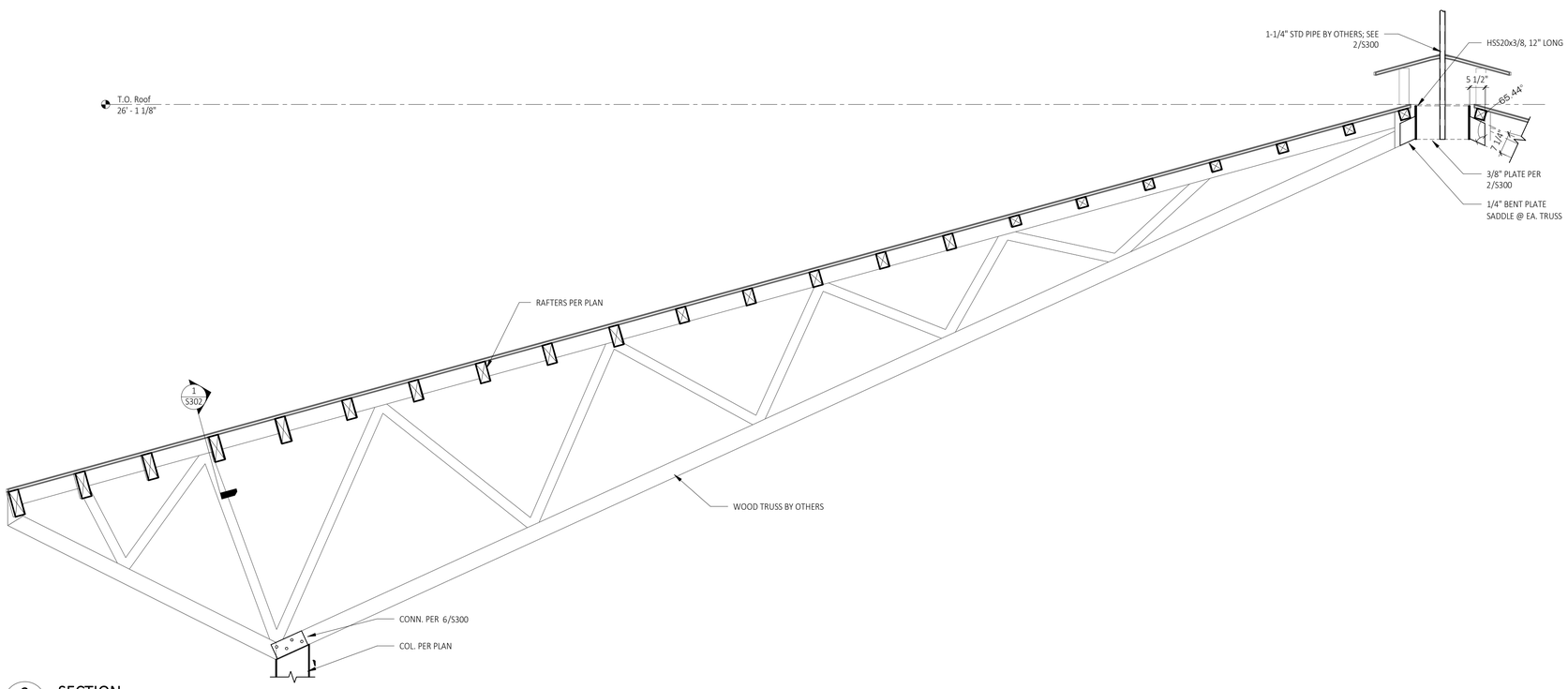


POCKETED COLUMNS

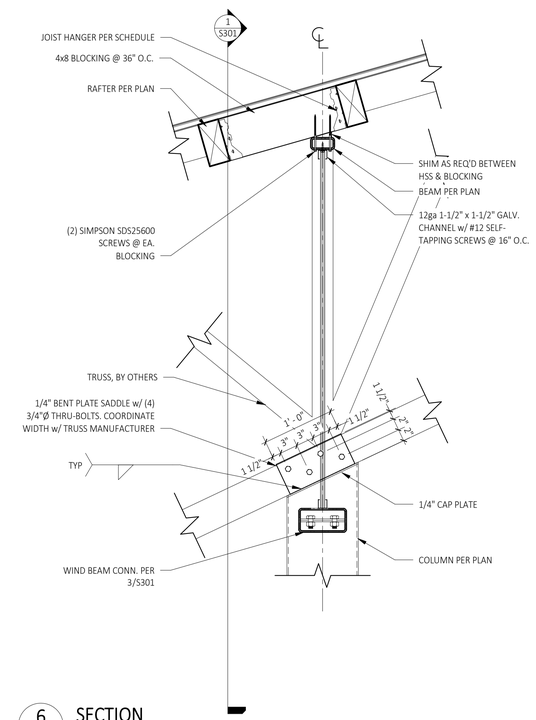
4 S300 **TYPICAL DETAIL**
Column Base and Leveling Plate



5 S300 **TYPICAL DETAIL**
Base Plate Configurations



3 S101 | S300 SECTION
1/2" = 1'-0"



6 S101 | S300 SECTION
1" = 1'-0"

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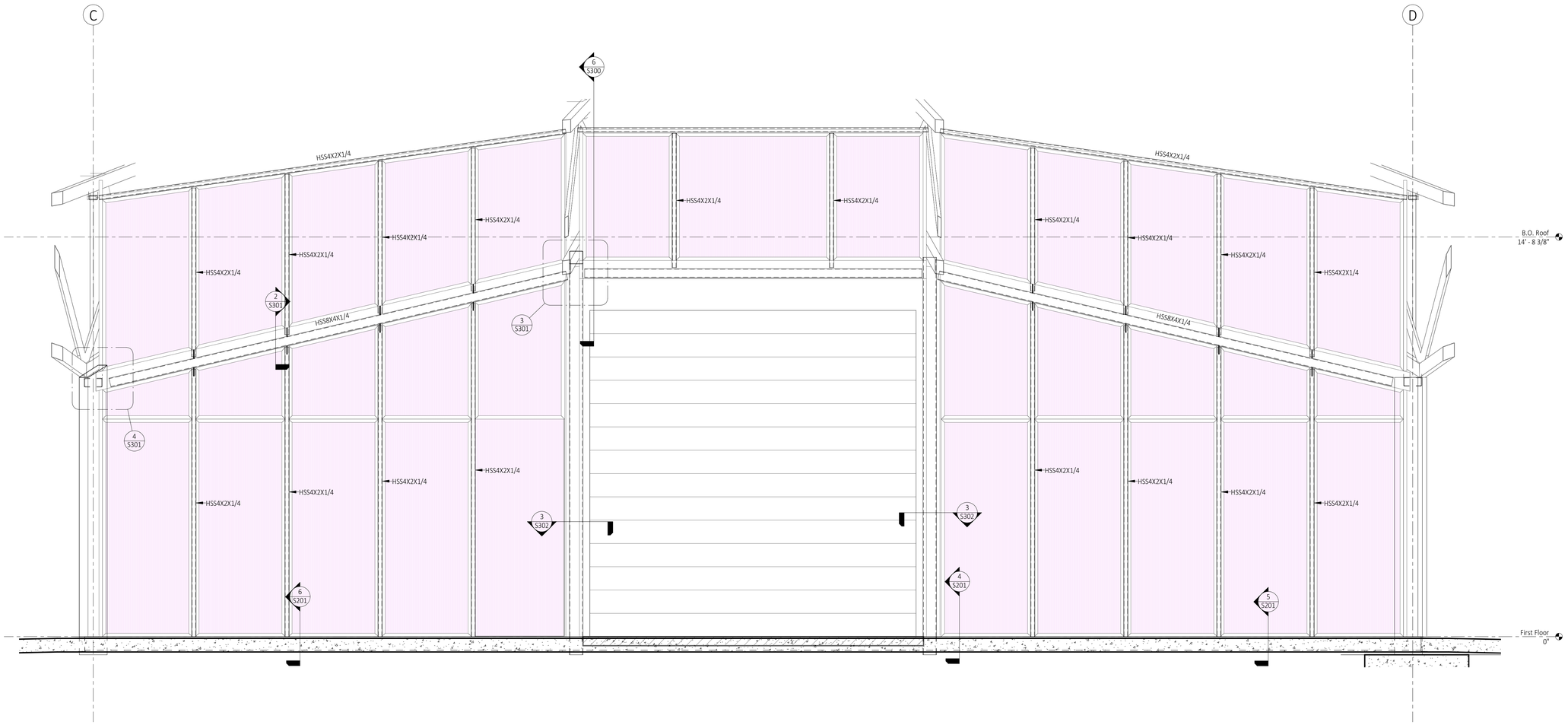
STATE OF LOUISIANA
HERMANN ALB
License No. 38052
PROFESSIONAL ENGINEER
04/02/2025
CIVIL ENGINEERING

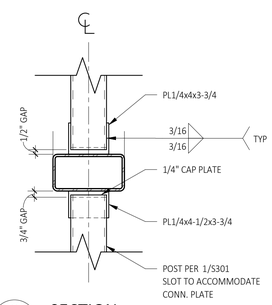
PROFFESIONAL OF RECORD
Hermann Alb, PE

FRAMING SECTIONS & DETAILS

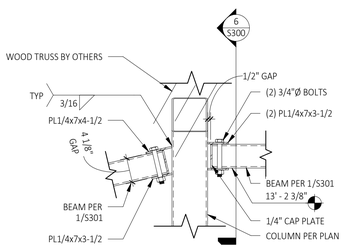
SHEET NUMBER:
S300



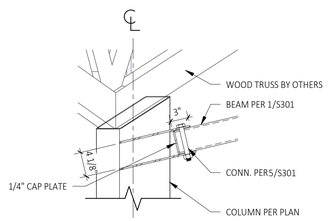
1 SECTION
S100 | S301 1/2" = 1'-0"



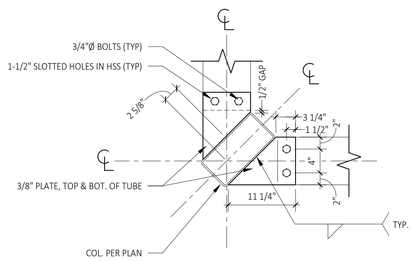
2 SECTION
S301 | S301 1 1/2" = 1'-0"



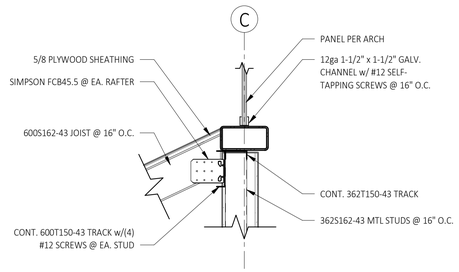
3 SECTION
S301 | S301 1" = 1'-0"



4 SECTION
S301 | S301 1" = 1'-0"



5 **TYPICAL DETAIL**
S301 CORNER COL. CONN.



6 SECTION
S101 | S301 1" = 1'-0"

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STATE OF LOUISIANA
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CIVIL ENGINEERING

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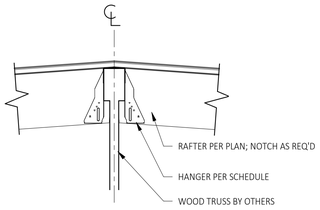
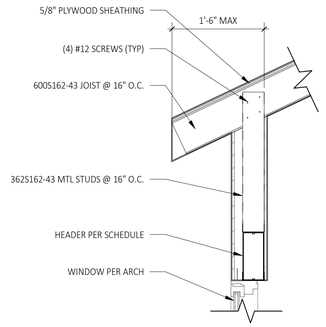
Hermann Alb, PE

FRAMING SECTIONS & DETAILS

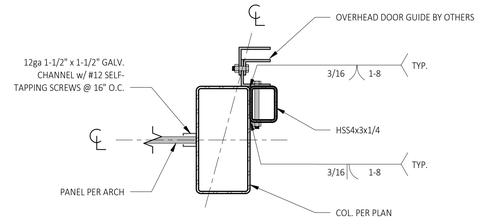
SHEET NUMBER:
S301



1 **TYPICAL DETAIL**
S302 RAFTER TO TRUSS CONNECTION



2 SECTION
S101 S302 1" = 1'-0"



3 **TYPICAL DETAIL**
S302 OVERHEAD DOOR SUPPORT

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DATE: 4/2/25
ISSUE: CONSTRUCTION

STATE OF LOUISIANA
HERMANN ALB
License No. 38052
PROFESSIONAL ENGINEER
04/02/2025
IN CIVIL ENGINEERING

PROFFESIONAL OF RECORD
Hermann Alb, PE

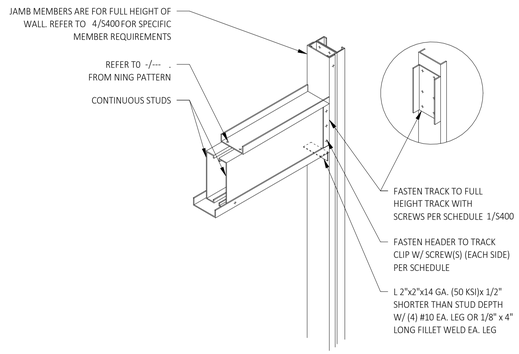
FRAMING SECTIONS @ DETAILS

SHEET NUMBER:
S302

COLD-FORMED STEEL (CFS) METAL STUD FRAMING OPENING SCHEDULE				
MAX CLEAR OPENING SPAN	HEADER BOX BEAM	JAMB	HEADER TO JAMB CONNECTION	
			SCREWS PER TRACK CLIP FACE	SCREWS EA. FLANGE TRACK
4'-0"	(2) 600S162-43 + (2) 362T150-43 T&B	(1) 362S162-43 (1) 362T150-43	6	3
6'-0"	(2) 800S162-43 + (2) 362T150-43 T&B	(2) 362S162-43 (1) 362T150-43	8	4
10'-0"	(2) 1200S162-43 + (2) 362T150-43 T&B	(2) 362S162-43 (2) 362T150-43	10	5

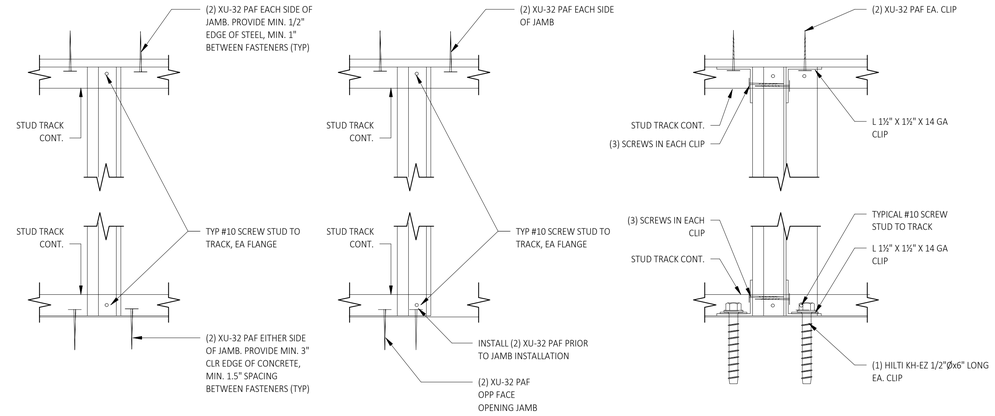
NOTES:
1. PROVIDE LINTELS OVER ALL OPENINGS, INCLUDING BUT NOT LIMITED TO: DOORS, WINDOWS, LOUVERS, RECESSES UNLESS SHOWN OR NOTED OTHERWISE.
2. FOR DIMENSIONS AND LOCATION OF OPENINGS SEE ARCHITECTURAL.
3. REFER TO DETAIL 2/S400 FOR HEADER TO JAMB CONNECTION.
4. REFER TO DETAIL -/--- . FOR HEADER FASTENING PATTERN.

1 S400 **TYPICAL DETAIL**
CFS METAL STUD FRAMING - OPENING SCHEDULE



AXIAL LOAD BEARING JAMB & HEAD

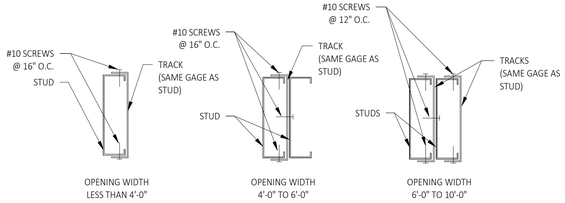
2 S400 **TYPICAL DETAIL**
TYPICAL EXTERIOR HEADER TO JAMB



FOR OPENING WIDTH LESS THAN 4'-0"
(GOOD FOR INTERIOR AND WIND PRESSURES 30PSF OR LESS, WALL HEIGHTS 12FT OR LESS)

FOR OPENING WIDTHS UP TO 8FT
(GOOD FOR INTERIOR AND WIND PRESSURES 30PSF OR LESS, WALL HEIGHTS 12FT OR LESS)

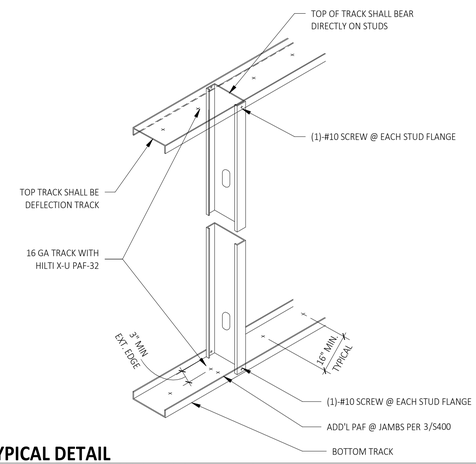
3 S400 **TYPICAL DETAIL**
CFS METAL FRAMING - JAMB END CONNECTION DETAILS



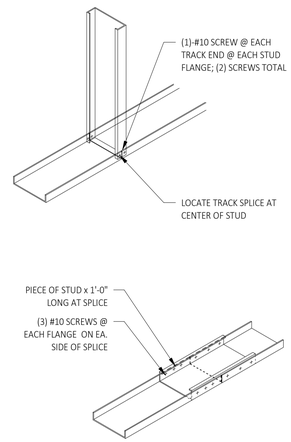
NOTE:

FOR OPENINGS LARGER THAN 10'-0" SEE PLAN OR CONSULT STRUCTURAL ENGINEER

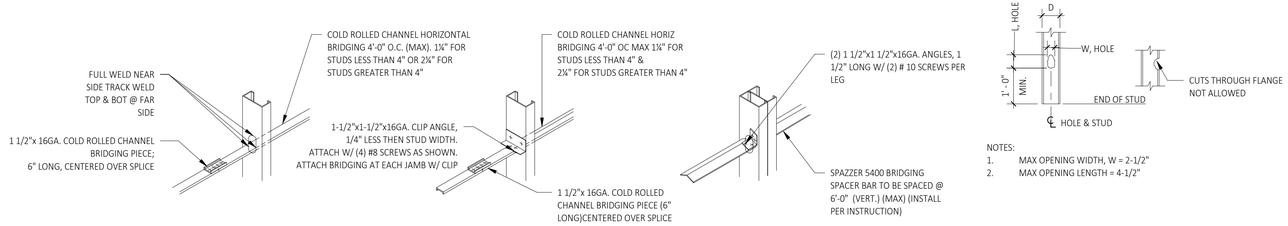
4 S400 **TYPICAL DETAIL**
CFS METAL FRAMING - JAMB FASTENEING PATTERN



5 S400 **TYPICAL DETAIL**
TYPICAL CFS TRACK ATTACHMENTS



6 S400 **TYPICAL DETAIL**
CFS TRACK SPLICING OPTIONS



WELDED OPTION

NON-WELDED OPTION

SPAZZER OPTION

NOTES:
1. MAX OPENING WIDTH, W = 2-1/2"
2. MAX OPENING LENGTH = 4-1/2"

MAX OPENING FOR BRIDGING

7 S400 **TYPICAL DETAIL**
CFS METAL FRAMING - BRIDGING CONNECTION OPTIONS

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REV. NO.	DATE	DESCRIPTION

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5601 READ BLVD., NEW ORLEANS, LA 70127

DRAWN BY: BATTURE
CHECKED BY: BATTURE
DATE: 4/2/25
ISSUE: CONSTRUCTION

STATE OF LOUISIANA
HERMANN ALB
License No. 38052
PROFESSIONAL ENGINEER
04/02/2025
CIVIL ENGINEERING

PROFFESIONAL OF RECORD
Hermann Alb, PE

CFS TYPICAL DETAILS

SHEET NUMBER:
S400

LEGEND: CONSTRUCTION PLAN

NEW WALL

NEW DOOR

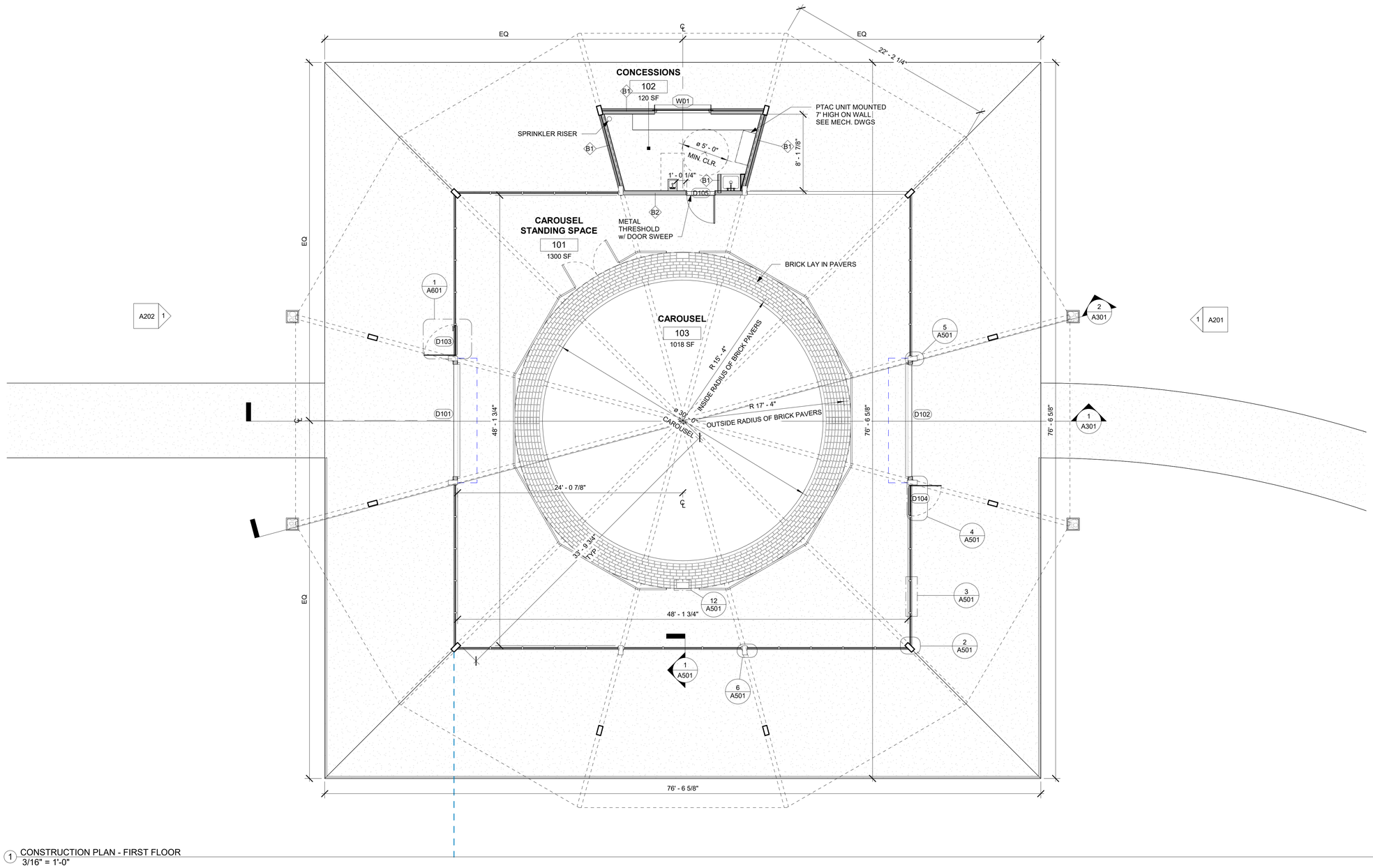
NEW THRESHOLD

ROOM MATERIAL/FINISH SCHEDULE

ROOM NO.	ROOM NAME	AREA	FLOOR	BASE	WALLS	CEILING	CASING	REMARKS
101	CAROUSEL STANDING SPACE	1300 SF	CONC, BRICK /	WB-1 /	PT-1, PT-2 /	EXPOSED WOOD /	TRIMLESS	
102	CONCESSIONS	120 SF	CONC /	WB-2 /	GYP, FRP /	GYP. /	2" WOOD CASING, PT-2	
103	CAROUSEL	1018 SF	CONC /	N/A / N/A	N/A /	EXPOSED WOOD /	N/A	

GENERAL CONSTRUCTION NOTES

1. ALL DIMENSIONS ARE "FINISH TO FINISH," UNLESS NOTED OTHERWISE. GC TO VERIFY ALL DIMS. IN FIELD.
2. GC TO PROVIDE PROTECTION FOR ALL NEW INSTALLED MATERIALS, FIXTURES, MILLWORK, APPLIANCES, ETC. AND TURNED OVER AT FINAL COMPLETION FREE OF BLEMISHES, DENTS. GC RESPOSNBILE FOR REPLACING/ FIXING ANY DAMAGED ITEMS AT END OF CONSTRUCITON.



1 CONSTRUCTION PLAN - FIRST FLOOR
3/16" = 1'-0"

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date

23 APR. 2025	SK-1
02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

PROPOSED FIRST FLOOR PLAN & NOTES

LICENSED ALEXANDER JAMES ADAMICK REG. NO. 8148 STATE OF LOUISIANA REGISTERED ARCHITECT

DATE:	4/23/2025 8:55:01 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	A101
CAD FILE NO: 2024-23\PDF OUT\EC	20/38

LEGEND: CONSTRUCTION PLAN

NEW WALL

NEW DOOR

NEW THRESHOLD

ROOM MATERIAL/FINISH SCHEDULE

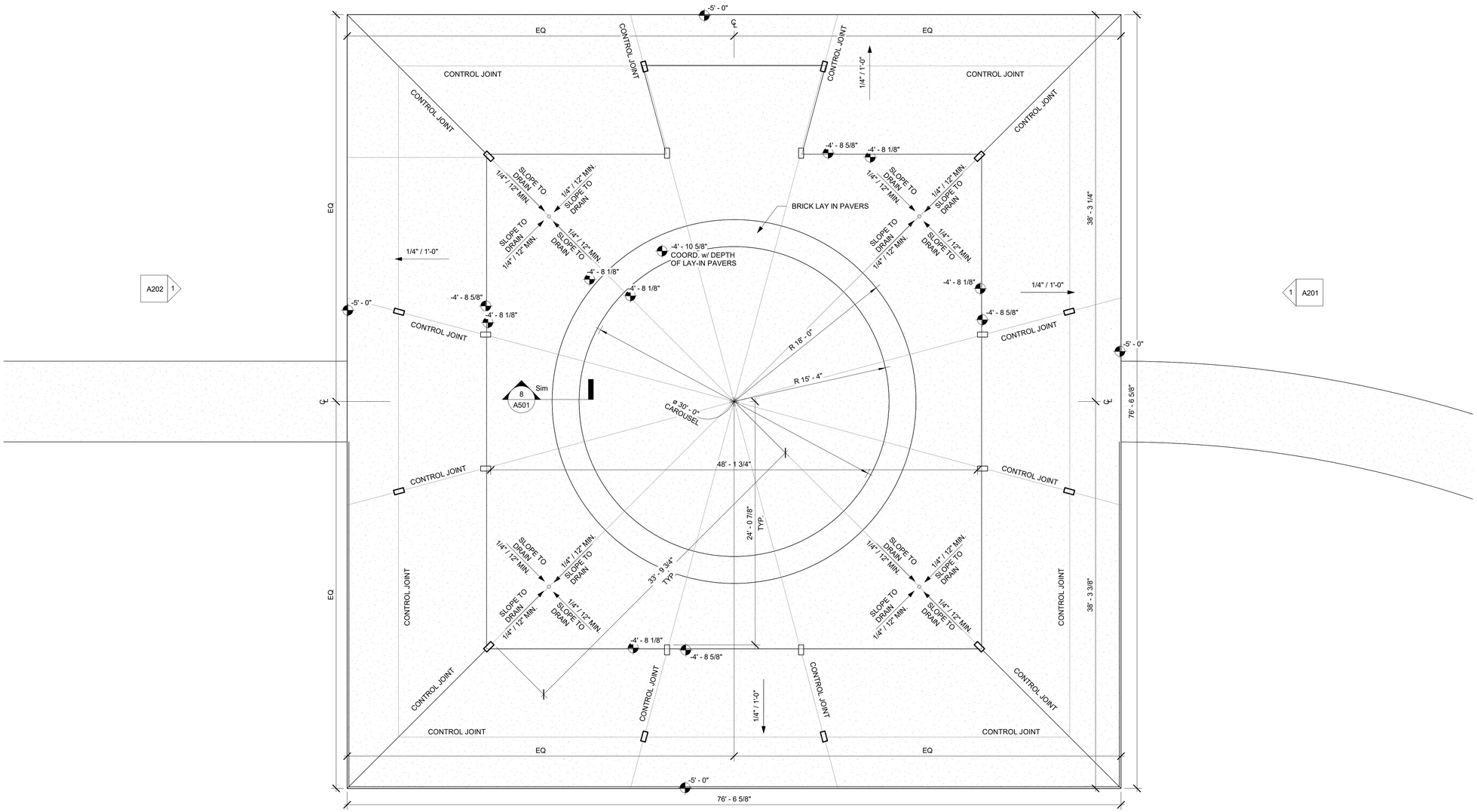
ROOM NO.	ROOM NAME	AREA	FLOOR	BASE	WALLS	CEILING	CASING	REMARKS
101	CAROUSEL STANDING SPACE	1300 SF	CONC, BRICK /	WB-1 /	PT-1, PT-2 /	EXPOSED WOOD /	TRIMLESS	
102	CONCESSIONS	120 SF	CONC /	WB-2 /	GYP, FRP /	GYP. /	2" WOOD CASING, PT-2	
103	CAROUSEL	1018 SF	CONC /	N/A / N/A	N/A /	EXPOSED WOOD /	N/A	

SHEET - KEYNOTES

Key Value	Keynote Text

GENERAL CONSTRUCTION NOTES

1. ALL DIMENSIONS ARE "FINISH TO FINISH," UNLESS NOTED OTHERWISE. GC TO VERIFY ALL DIMS. IN FIELD.
2. GC TO PROVIDE PROTECTION FOR ALL NEW INSTALLED MATERIALS, FIXTURES, MILLWORK, APPLIANCES, ETC. AND TURNED OVER AT FINAL COMPLETION FREE OF BLEMISHES, DENTS. GC RESPOSNBILE FOR REPLACING/ FIXING ANY DAMAGED ITEMS AT END OF CONSTRUCITON.



1 CONSTRUCTION PLAN - SLAB ELEVATIONS
3/16" = 1'-0"

ADAMICK ARCHITECTURE

3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date

23 APR. 2025	SK-1
02 APR. 2025	CD-100
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Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

PROPOSED FIRST FLOOR PLAN SLAB ELEVATIONS

ALEXANDER JAMES ADAMICK
REG. NO. 8148
STATE OF LOUISIANA
REGISTERED ARCHITECT

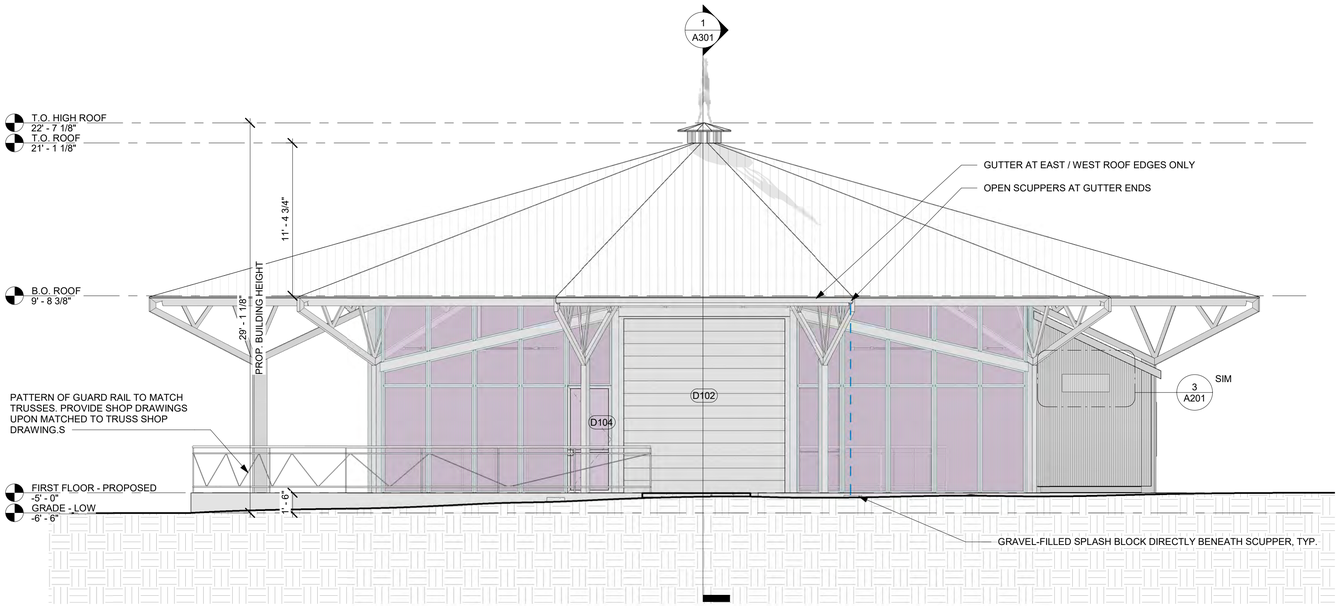
DATE:	4/23/2025 8:55:02 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	A102
CAD FILE NO: 2024-23\PDF OUT\EC	21/38

GENERAL CONSTRUCTION NOTES

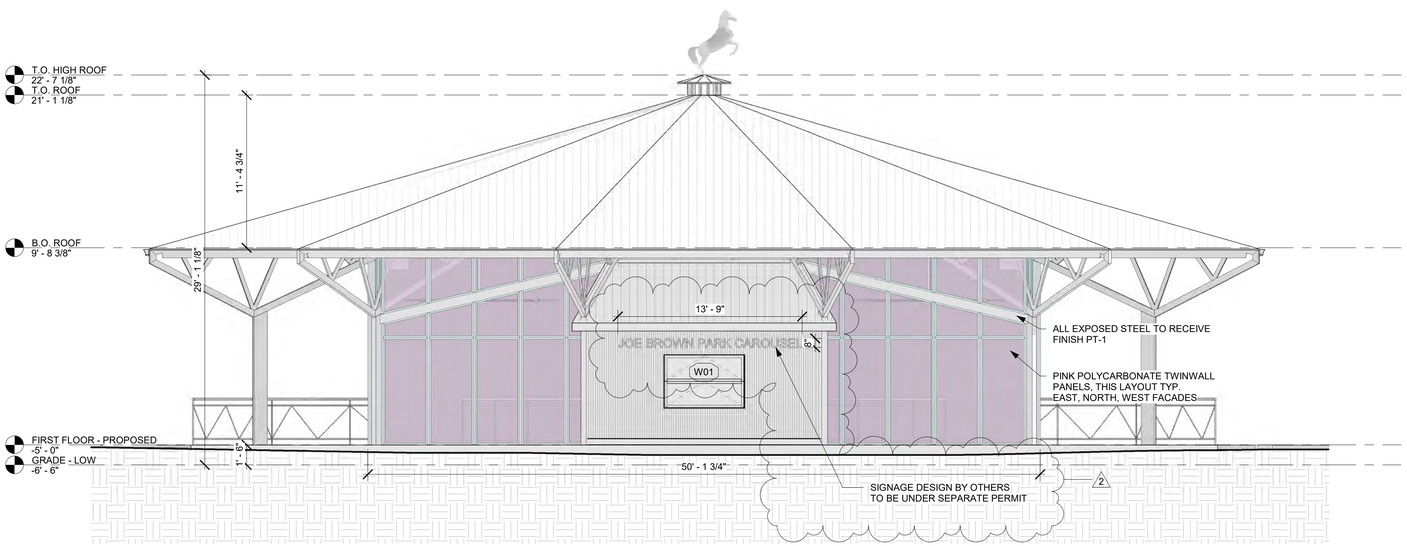
1. ALL DIMENSIONS ARE "FINISH TO FINISH," UNLESS NOTED OTHERWISE. GC TO VERIFY ALL DIMS. IN FIELD.
2. GC TO PROVIDE PROTECTION FOR ALL NEW INSTALLED MATERIALS, FIXTURES, MILLWORK, APPLIANCES, ETC. AND TURNED OVER AT FINAL COMPLETION FREE OF BLEMISHES, DENTS. GC RESPOSNBILE FOR REPLACING/ FIXING ANY DAMAGED ITEMS AT END OF CONSTRUCITON.

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

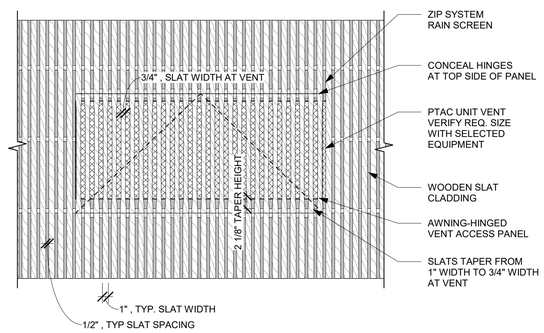
No.	Description	Date
2	DAC REVIEW SET	04/23/2025



1 PROPOSED CONSTRUCTION OF THE FRONT ELEVATION
3/16" = 1'-0"



2 PROPOSED CONSTRUCTION OF THE RIGHT SIDE ELEVATION
3/16" = 1'-0"



3 CLADDING DETAIL @ PTAC VENT
1" = 1'-0"

23 APR. 2025	SK-1
02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

PROPOSED EXTERIOR ELEVATIONS & NOTES

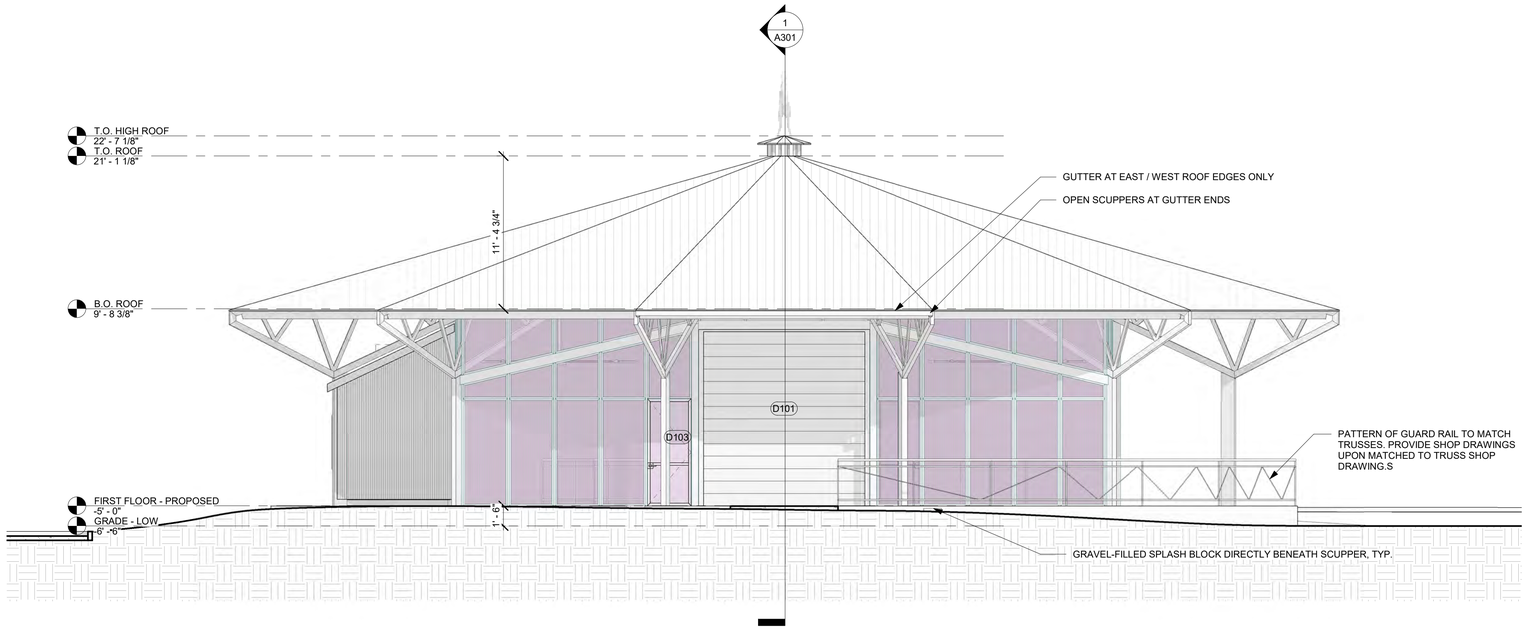
ALEXANDER JAMES ADAMICK
REG. NO. 8748
STATE OF LOUISIANA
REGISTERED ARCHITECT

DATE:	4/23/2025 8:55:07 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	A201
CAD FILE NO: 2024-23\PDF OUT\EC	22/38

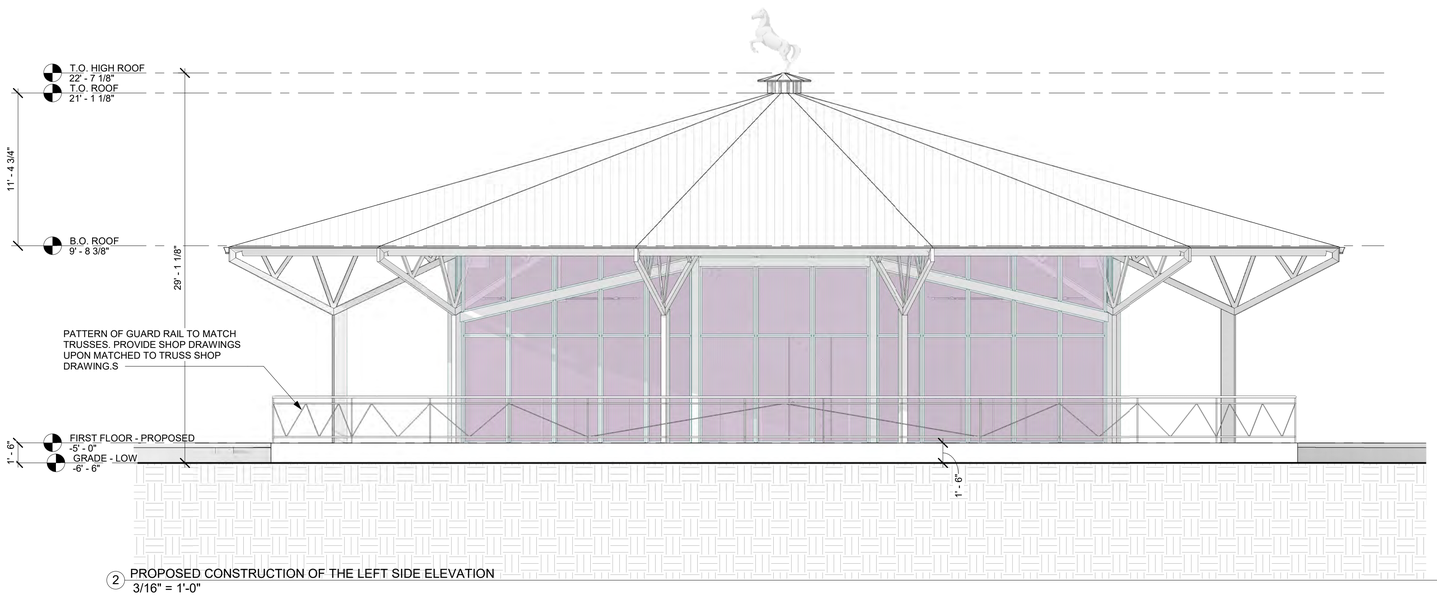
SHEET - KEYNOTES	
Key Value	Keynote Text

GENERAL CONSTRUCTION NOTES

1. ALL DIMENSIONS ARE "FINISH TO FINISH," UNLESS NOTED OTHERWISE. GC TO VERIFY ALL DIMS. IN FIELD.
2. GC TO PROVIDE PROTECTION FOR ALL NEW INSTALLED MATERIALS, FIXTURES, MILLWORK, APPLIANCES, ETC. AND TURNED OVER AT FINAL COMPLETION FREE OF BLEMISHES, DENTS. GC RESPOSNBILE FOR REPLACING/ FIXING ANY DAMAGED ITEMS AT END OF CONSTRUCITON.



1 PROPOSED CONSTRUCTION OF THE REAR ELEVATION
3/16" = 1'-0"



2 PROPOSED CONSTRUCTION OF THE LEFT SIDE ELEVATION
3/16" = 1'-0"

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date

23 APR. 2025	SK-1
02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

PROPOSED EXTERIOR ELEVATIONS & NOTES

ALEXANDER JAMES ADAMICK IV
REG. NO. 8148
STATE OF LOUISIANA
REGISTERED ARCHITECT

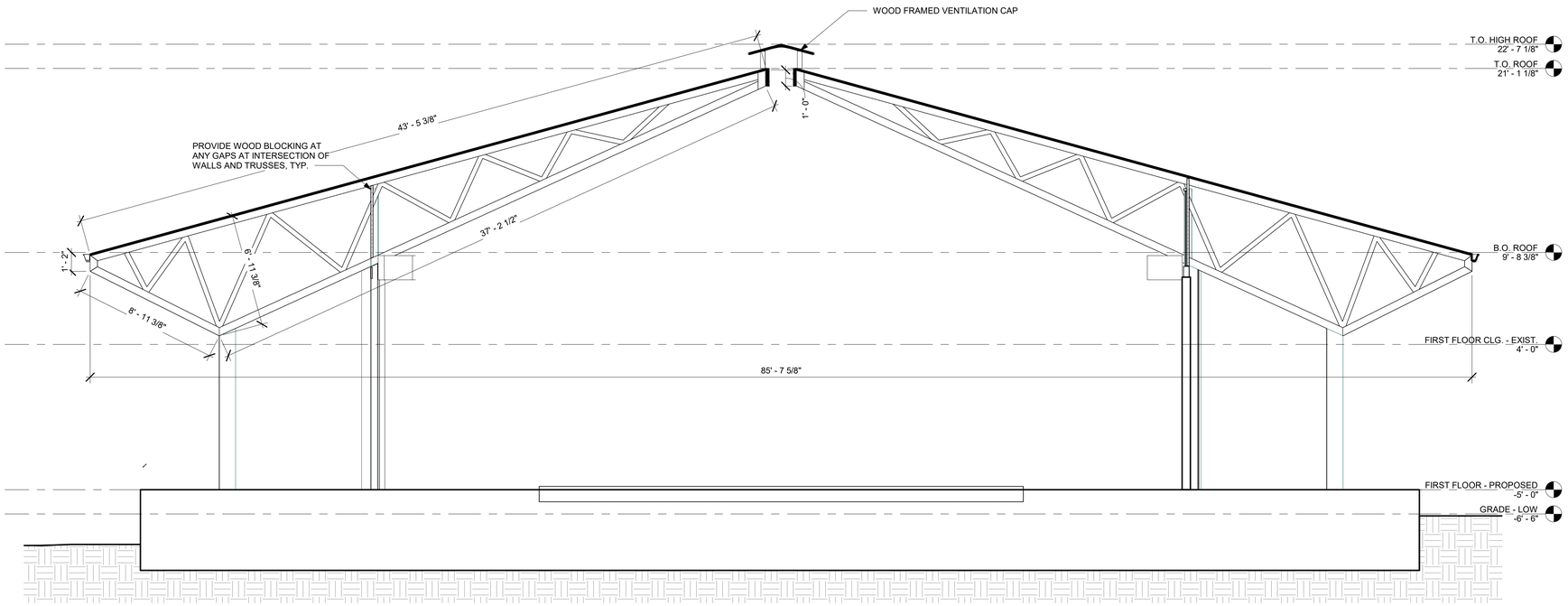
DATE:	4/23/2025 8:55:12 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	A202
CAD FILE NO:- 2024-23\PDF OUT\EC	23/38

SHEET - KEYNOTES	
Key Value	Keynote Text

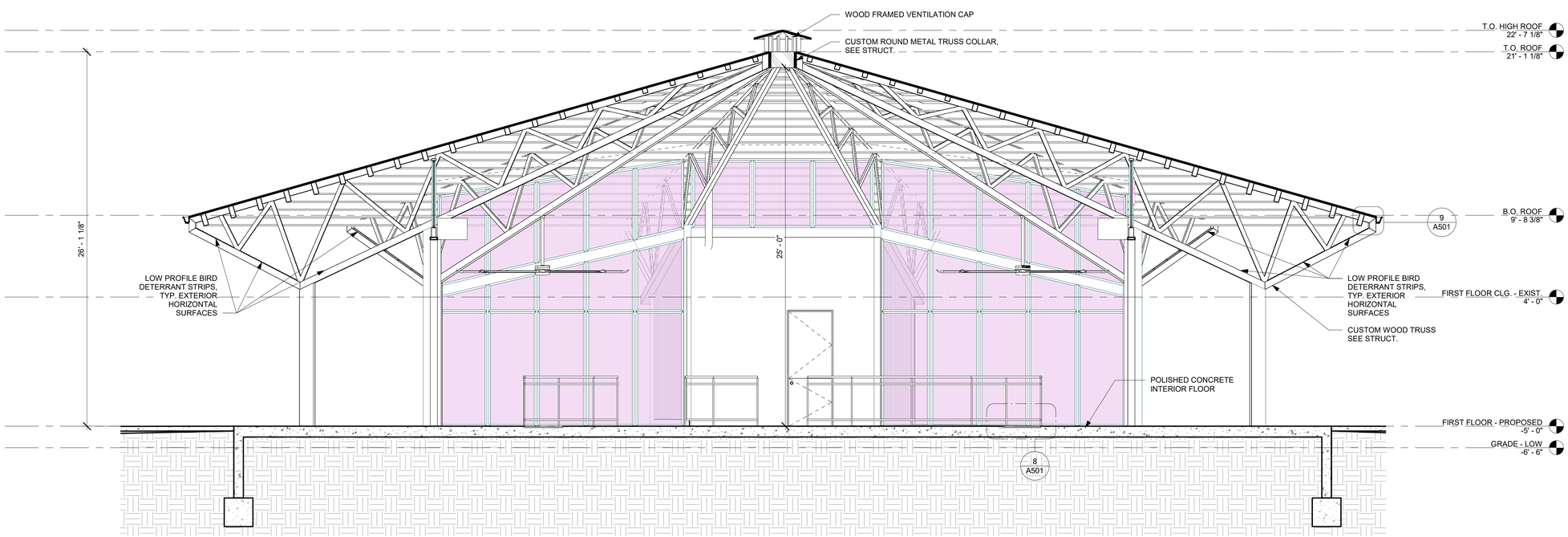
SHEET - KEYNOTES	
Key Value	Keynote Text

GENERAL CONSTRUCTION NOTES

1. ALL DIMENSIONS ARE "FINISH TO FINISH," UNLESS NOTED OTHERWISE. GC TO VERIFY ALL DIMS. IN FIELD.
2. GC TO PROVIDE PROTECTION FOR ALL NEW INSTALLED MATERIALS, FIXTURES, MILLWORK, APPLIANCES, ETC. AND TURNED OVER AT FINAL COMPLETION FREE OF BLEMISHES, DENTS. GC RESPOSNBILE FOR REPLACING/ FIXING ANY DAMAGED ITEMS AT END OF CONSTRUCITON.



2 BUILDING TRUSS DETAIL SECTION
1/4" = 1'-0"



1 BUILDING CROSS SECTION
1/4" = 1'-0"

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date

23 APR. 2025	SK-1
02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

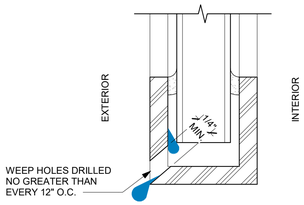
JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

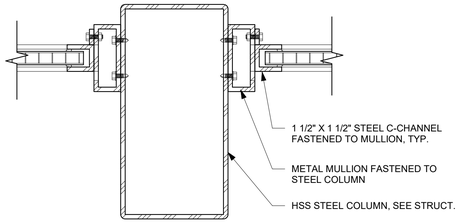
PROPOSED BUILDING SECTIONS & NOTES

ALEXANDER JAMES ADAMICK
REG. NO. 8148
STATE OF LOUISIANA
REGISTERED ARCHITECT

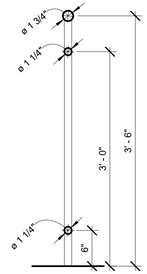
DATE:	4/23/2025 8:55:14 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	A301
CAD FILE NO: 2024-23\PDF OUT\EC	24/38



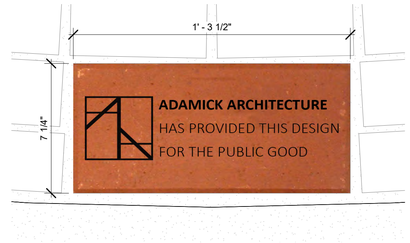
10 TYPICAL WEEP HOLE DETAIL AT C-CHANNEL
12" = 1'-0"



6 POLYCARBONATE PANEL ATTACHMENT DETAIL AT COLUMN
3" = 1'-0"



7 DETAIL - TYP. RAILING SECTION
1" = 1'-0"



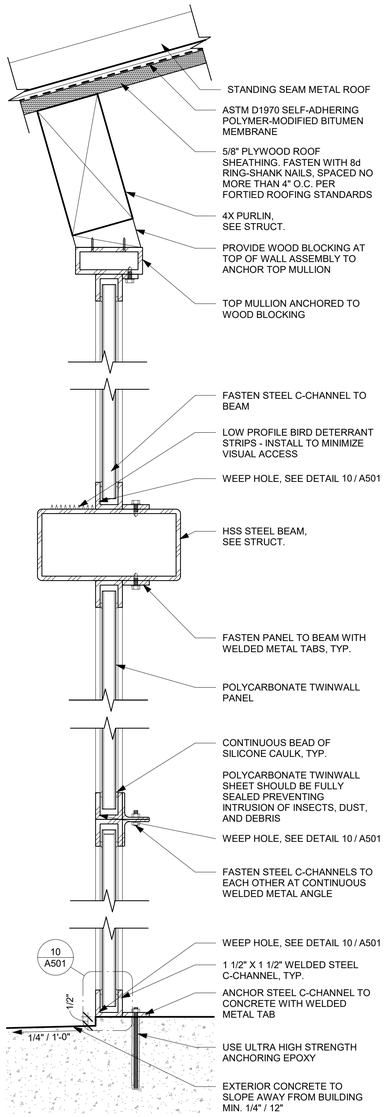
12 DETAIL - ADAMICK ARCHITECTURE BRICK PAVER
3" = 1'-0"

GENERAL DETAIL NOTES

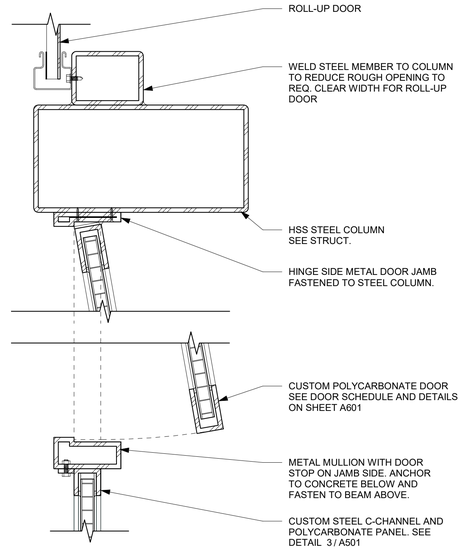
1. ALL MAJOR METAL COMPONENTS (STRUCTURAL FRAMING, ROOF, FLASHING) ARE TO BE STEEL. CONTRACTOR TO VERIFY THAT GRADES OF ALL STEEL ARE TO BE GALVANICALLY COMPATIBLE.
2. ALL CONNECTIONS TO METAL STUD WALLS TO BE MADE WITH STAINLESS STEEL FASTENERS TO PREVENT GALVANIC ACTION.

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

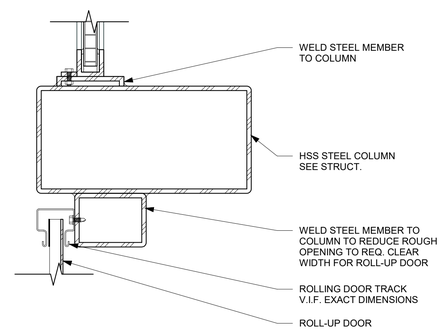
No.	Description	Date



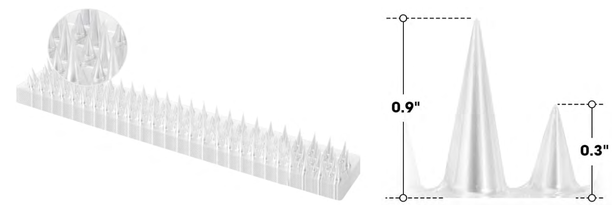
1 TYPICAL WALL SECTION @ POLYCARBONATE WALLS
3" = 1'-0"



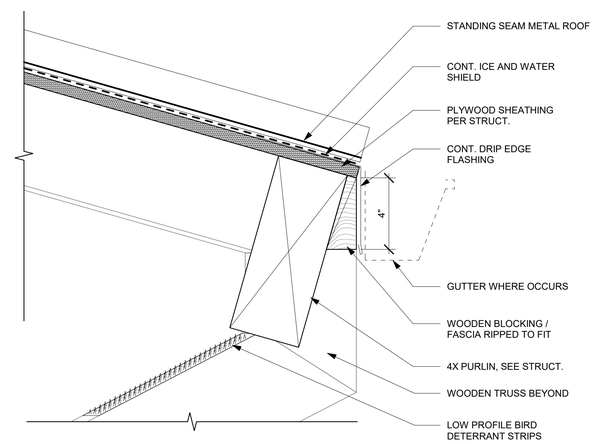
4 POLYCARBONATE PANEL CUSTOM DOOR PLAN DETAIL
3" = 1'-0"



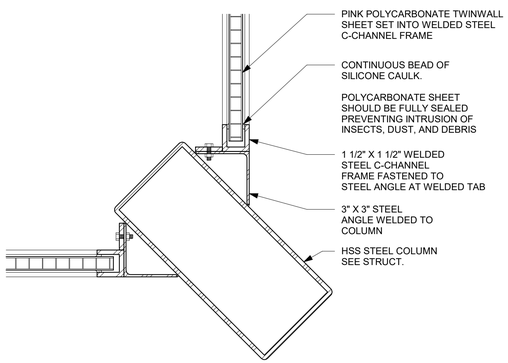
5 ROLL-UP DOOR JAMB DETAIL
3" = 1'-0"



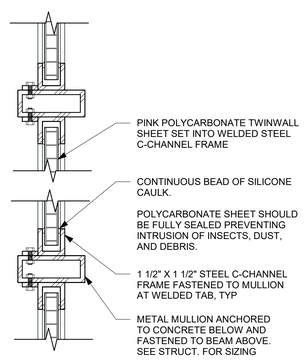
11 BIRD DETERRANT STRIPS EXAMPLE
12" = 1'-0"



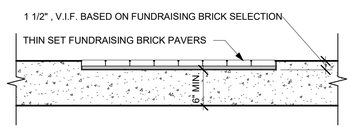
9 MAIN ROOF DRIP EDGE DETAIL
3" = 1'-0"



2 BUILDING CORNER ASSEMBLY PLAN DETAIL
3" = 1'-0"



3 POLYCARBONATE PANEL MULLION PLAN DETAIL
3" = 1'-0"



8 FUNDRAISING BRICK PAVER DETAIL
1" = 1'-0"

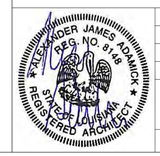
23 APR. 2025	SK-1
02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

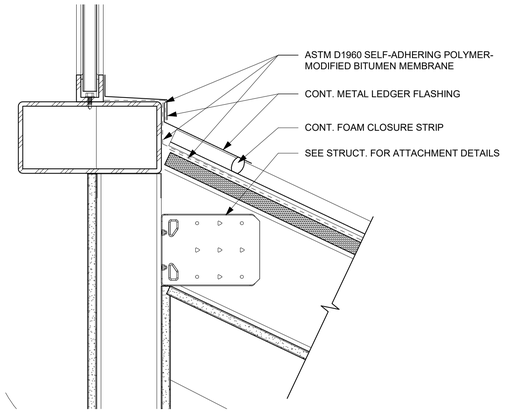
JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

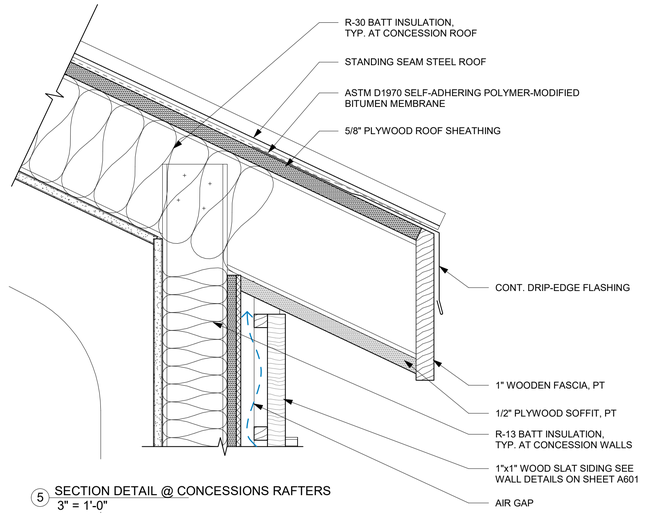
CONSTRUCTION DETAILS



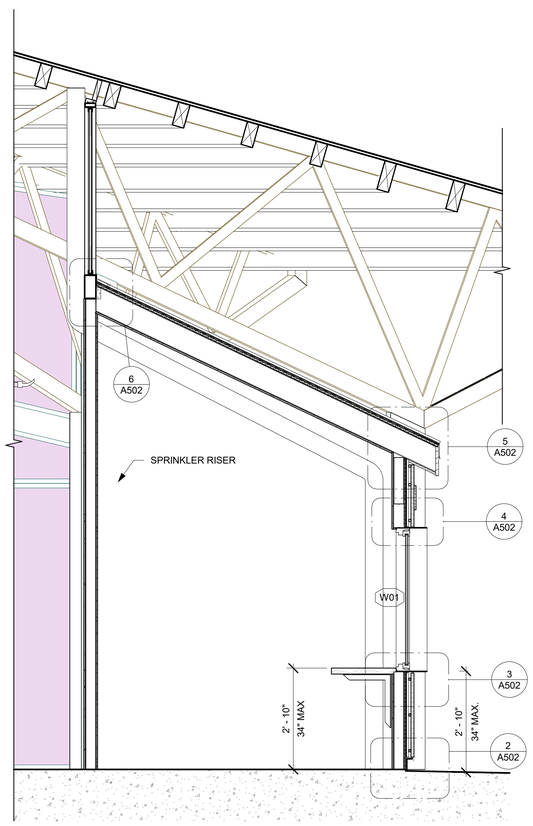
DATE:	4/23/2025 8:55:16 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	A501
CAD FILE NO: 2024-23\PDF OUT\EC	25/38



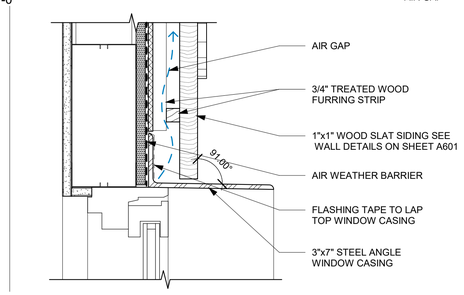
6 SECTION DETAIL @ CONCESSIONS LEDGER
3" = 1'-0"



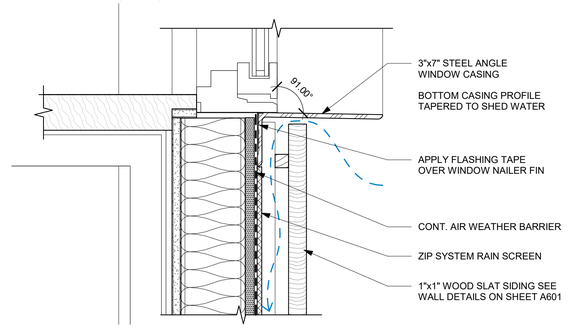
5 SECTION DETAIL @ CONCESSIONS RAFTERS
3" = 1'-0"



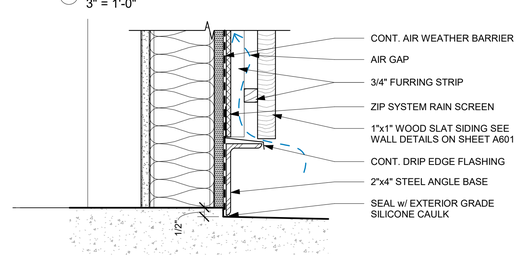
1 PARTIAL BUILDING SECTION AT CONCESSION STAND / TICKET BOOTH
1/2" = 1'-0"



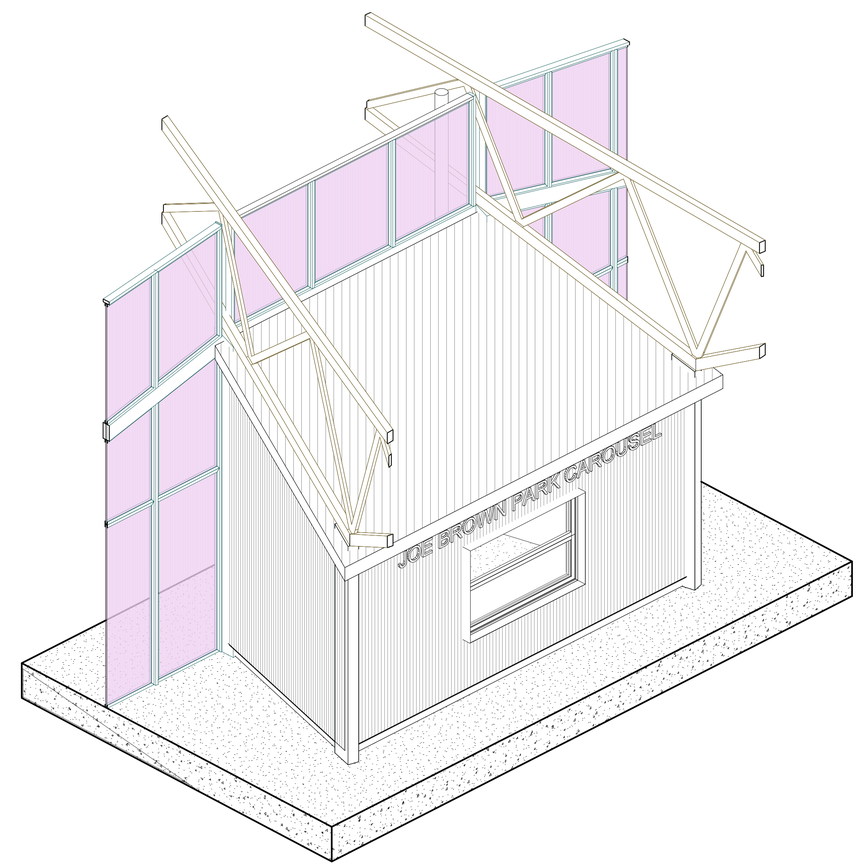
4 SECTION DETAIL @ CONCESSIONS WINDOW HEAD
3" = 1'-0"



3 SECTION DETAIL @ CONCESSIONS WINDOW SILL
3" = 1'-0"



2 SECTION DETAIL @ CONCESSIONS BASE
3" = 1'-0"



7 CONCESSIONS 3D VIEW

GENERAL DETAIL NOTES

1. ALL MAJOR METAL COMPONENTS (STRUCTURAL FRAMING, ROOF, FLASHING) ARE TO BE STEEL. CONTRACTOR TO VERIFY THAT GRADES OF ALL STEEL ARE TO BE GALVANICALLY COMPATIBLE.
2. ALL CONNECTIONS TO METAL STUD WALLS TO BE MADE WITH STAINLESS STEEL FASTENERS TO PREVENT GALVANIC ACTION.

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date

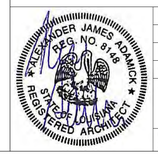
23 APR. 2025	SK-1
02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

CONSTRUCTION DETAILS



DATE:	4/23/2025 8:55:17 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	A502
CAD FILE NO: 2024-23\PDF OUT\EC	26/38

WINDOW SCHEDULE

WDW TAG	WDW TYPE	WIDTH	HEIGHT	SILL	HEADER	WINDOW MAT.	GLAZING	EXT. TRIM	INT. TRIM	COUNT	REMARKS
W01	A	6' - 0"	4' - 0"	2' - 9"	6' - 9"	ALUM.	CLEAR - IMPACT RATED, DARK TINT	WT-1	TRIMLESS	1	ADA COMPLIANT SERVICE COUNTER, MUST HAVE MAX HEIGHT OF 34" AND CLEAR FLOOR SPACE OF 30"x48" FOR PARALLEL APPROACH

Grand total: 1

GENERAL NOTES: WINDOW SCHEDULE

1. CONTRACTOR SHALL PROVIDE OWNER WITH WINDOW, CASING, & TRIM SPECIFICATIONS FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
2. ALL HARDWARE TO BE SELECTED BY OWNER UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO PURCHASE AND INSTALLATION.
3. NEW WINDOWS SHALL BE RECESSED MOUNTED WITH DRIP CAP & ALL REQ. FLASHING INSTALLED PER MANUFACTURER'S SPECIFICATIONS (TYP.) AND CLEAR GLAZING WITHOUT TINT OR TEXTURE.
4. CONTRACTOR SHALL PROVIDE 1/2" THICK PRECUT WOOD STRUCTURAL PANELS FOR EACH WINDOW COVERING THE EXTERIOR CASING, PROVIDE PREDRILLED ANCHORS FOR FUTURE MOUNTING.

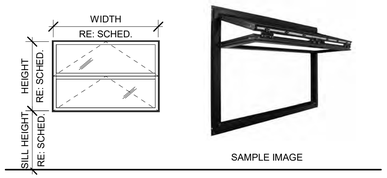
DOOR SCHEDULE

DOOR TAG	DOOR TYPE	WIDTH	HEIGHT	MATERIAL	EXT. TRIM	INT. TRIM	COUNT	REMARKS
D101	B	12' - 0"	13' - 0"	METAL	N/A	N/A	1	
D102	B	12' - 0"	13' - 0"	METAL	N/A	N/A	1	
D103	A	3' - 3 5/8"	8' - 0"	METAL, POLYCARBONATE TWINWALL	SEE DETAILS	SEE DETAILS	1	EQUIPPED WITH PANIC HARDWARE IN DIRECTION OF EGRESS TRAVEL
D104	A	3' - 3 5/8"	8' - 0"	METAL, POLYCARBONATE TWINWALL	SEE DETAILS	SEE DETAILS	1	EQUIPPED WITH PANIC HARDWARE IN DIRECTION OF EGRESS TRAVEL
D105	C	3' - 0"	8' - 0"	METAL	TRIMLESS	TRIMLESS	1	

Grand total: 5

GENERAL NOTES: DOOR SCHEDULE

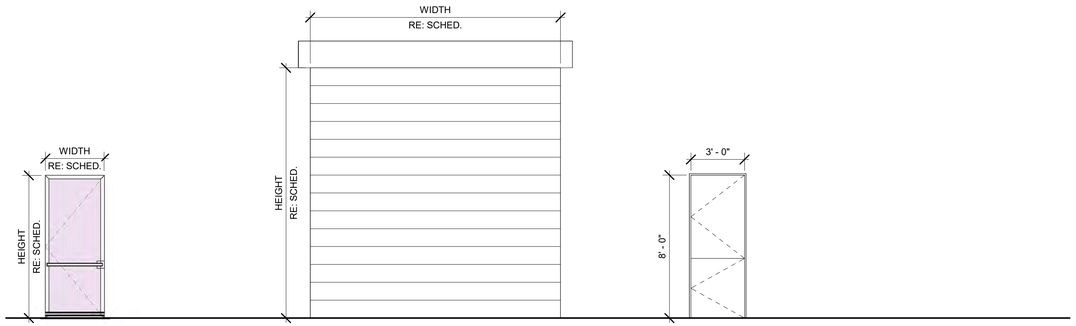
1. CONTRACTOR SHALL PROVIDE OWNER WITH ALL DOOR, CASING, & TRIM SPECIFICATIONS FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
2. ALL HARDWARE TO BE APPROVED BY OWNER UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO PURCHASE AND INSTALLATION.
3. CONTRACTOR TO VERIFY PROPOSED DOOR MATCHES EXISTING SIZING AND OVERALL HEAD HEIGHT IN THE FIELD PRIOR TO PURCHASE AND INSTALL.



SAMPLE IMAGE

WINDOW TYPE 'A'

FOLD-UP AWNING CONCESSION WINDOW



DOOR TYPE 'A'

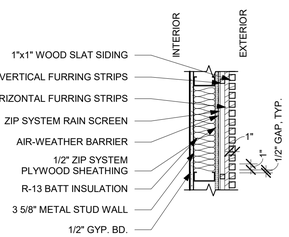
(EXTERIOR) CUSTOM POLYCARBONATE TWINWALL DOOR

DOOR TYPE 'B'

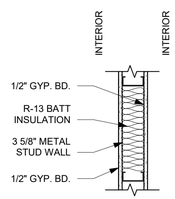
(EXTERIOR) ROLLING DOOR

DOOR TYPE 'C'

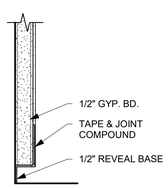
(INTERIOR) SINGLE PANEL DOUBLE DOORS



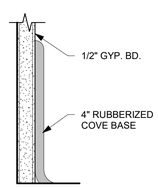
3 WALL TYPE B1
1" = 1'-0"



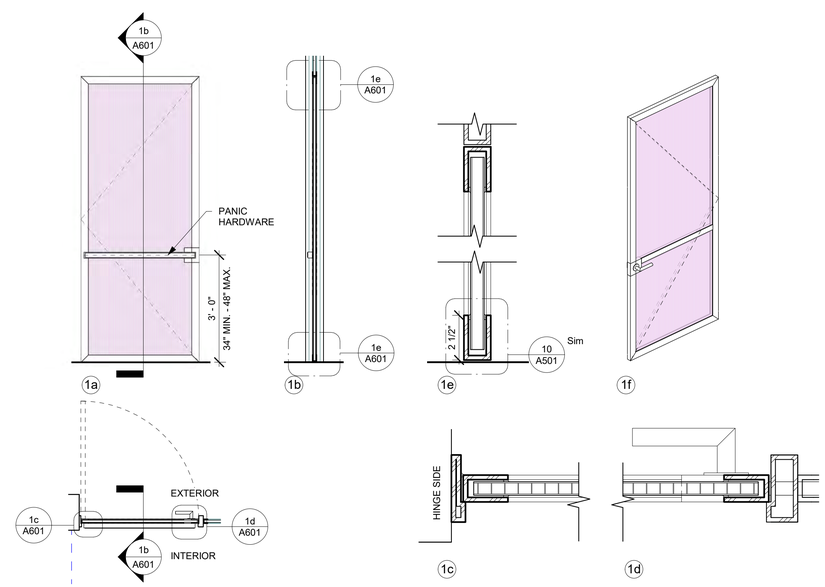
2 WALL TYPE B2
1" = 1'-0"



4 WB-1
6" = 1'-0"



5 WB-2
6" = 1'-0"



1 CUSTOM POLYCARBONATE DOOR DETAILS
1/2" = 1'-0"

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date

23 APR. 2025	SK-1
02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
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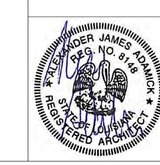
DOOR, WINDOW, & WALL SCHEDULE & NOTES



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DRAWING BY:	CH
CHECKED BY:	AJA
SHEET NO.:	A601
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GENERAL NOTES: INTERIOR ELEVATIONS

1. ALL DIMENSIONS TO BE VERIFIED IN FIELD

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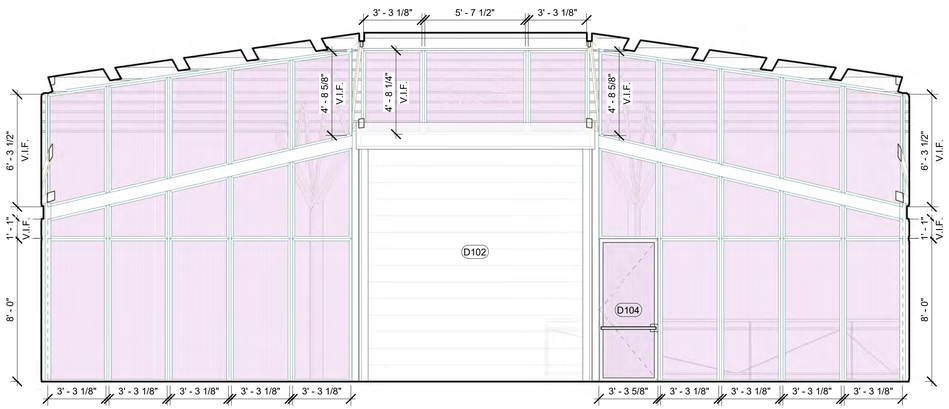
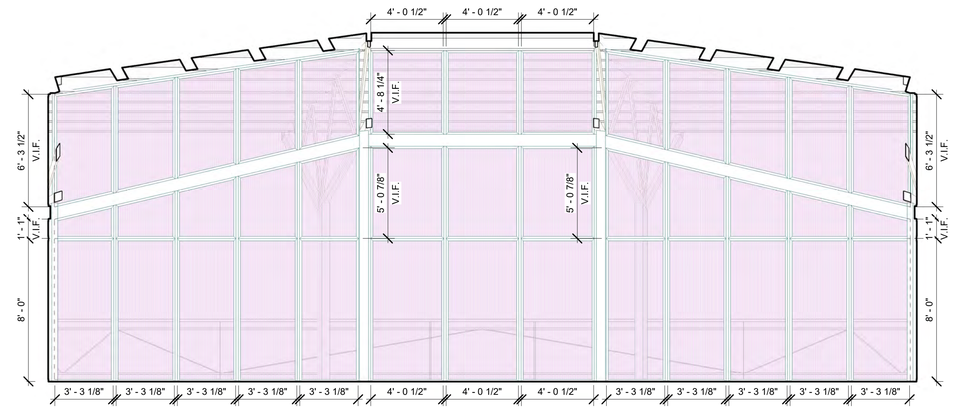
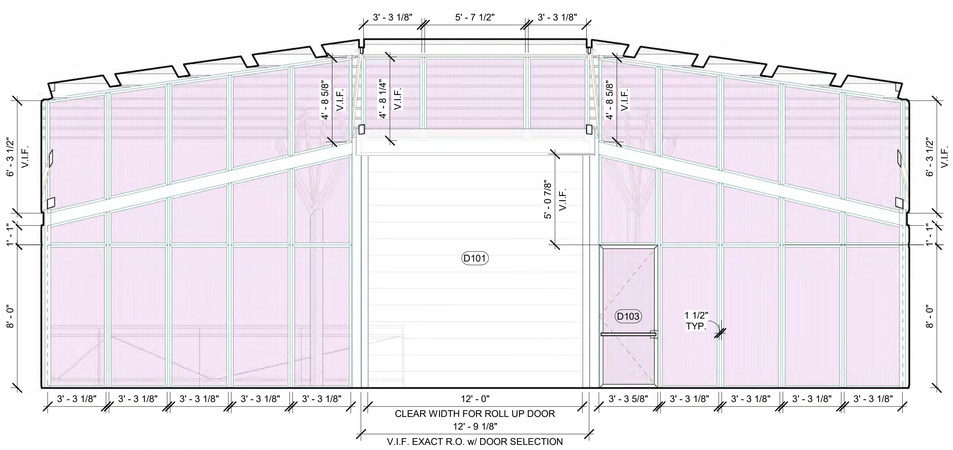


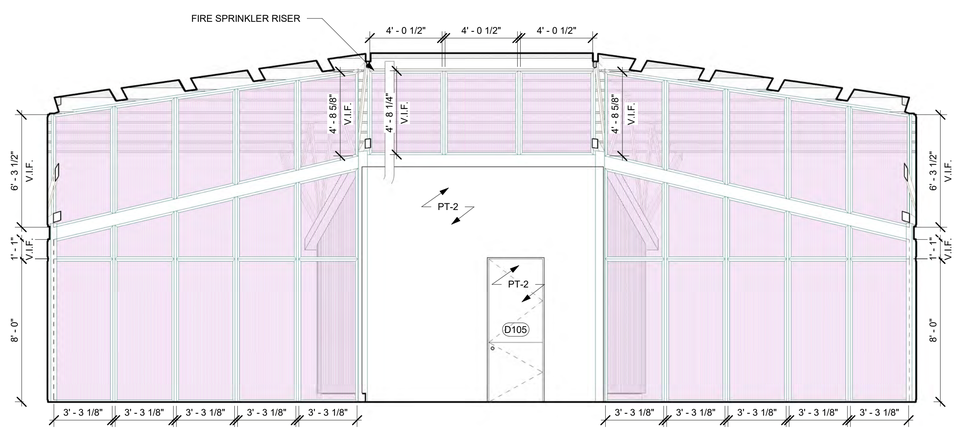
3 EAST FACADE INTERIOR ELEVATION
1/4" = 1'-0"



4 SOUTH FACADE INTERIOR ELEVATION
1/4" = 1'-0"



1 WEST FACADE INTERIOR ELEVATION
1/4" = 1'-0"



2 NORTH FACADE INTERIOR ELEAVTION
1/4" = 1'-0"

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Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

ADDRESS:
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INTERIOR ELEVATIONS & NOTES

ALEXANDER JAMES ADAMICK
REG. NO. 8148
STATE OF LOUISIANA
REGISTERED ARCHITECT

DATE:	4/23/2025 8:55:23 AM
PROJECT NO.:	2024-23
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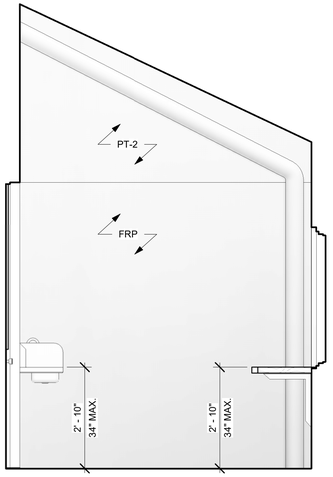
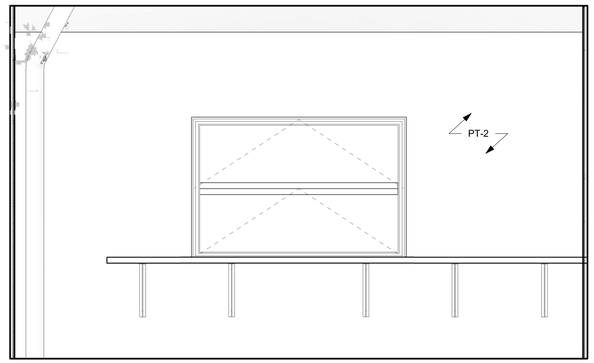
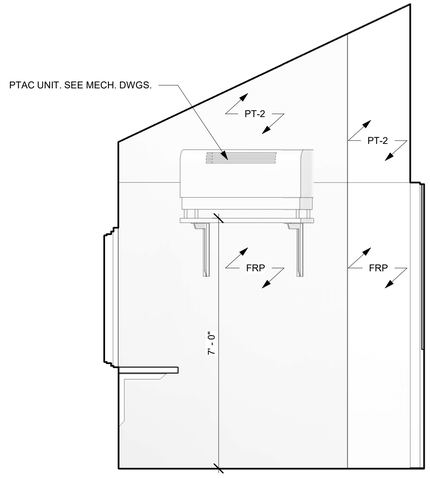


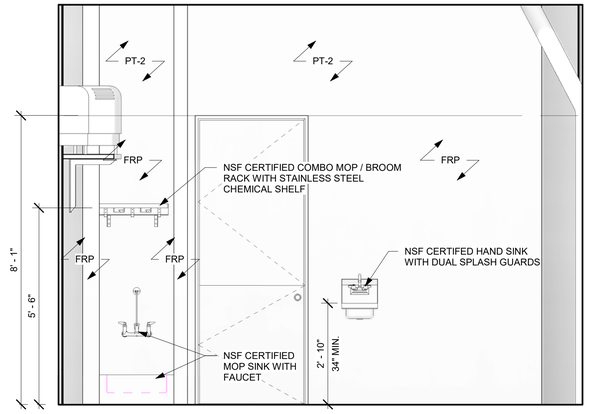
1 CONCESSION AREA WEST INTERIOR ELEVATION
1/2" = 1'-0"



2 CONCESSION AREA NORTH INTERIOR ELEVATION
1/2" = 1'-0"



3 CONCESSION AREA EAST ELEVATION
1/2" = 1'-0"



4 CONCESSION AREA SOUTH ELEVATION
1/2" = 1'-0"

ADAMICK ARCHITECTURE
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07 OCT. 2024	EC-1

Project: #2024-23

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INTERIOR ELEVATIONS & NOTES

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PROJECT NO.:	2024-23
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SHEET NO.:	A802
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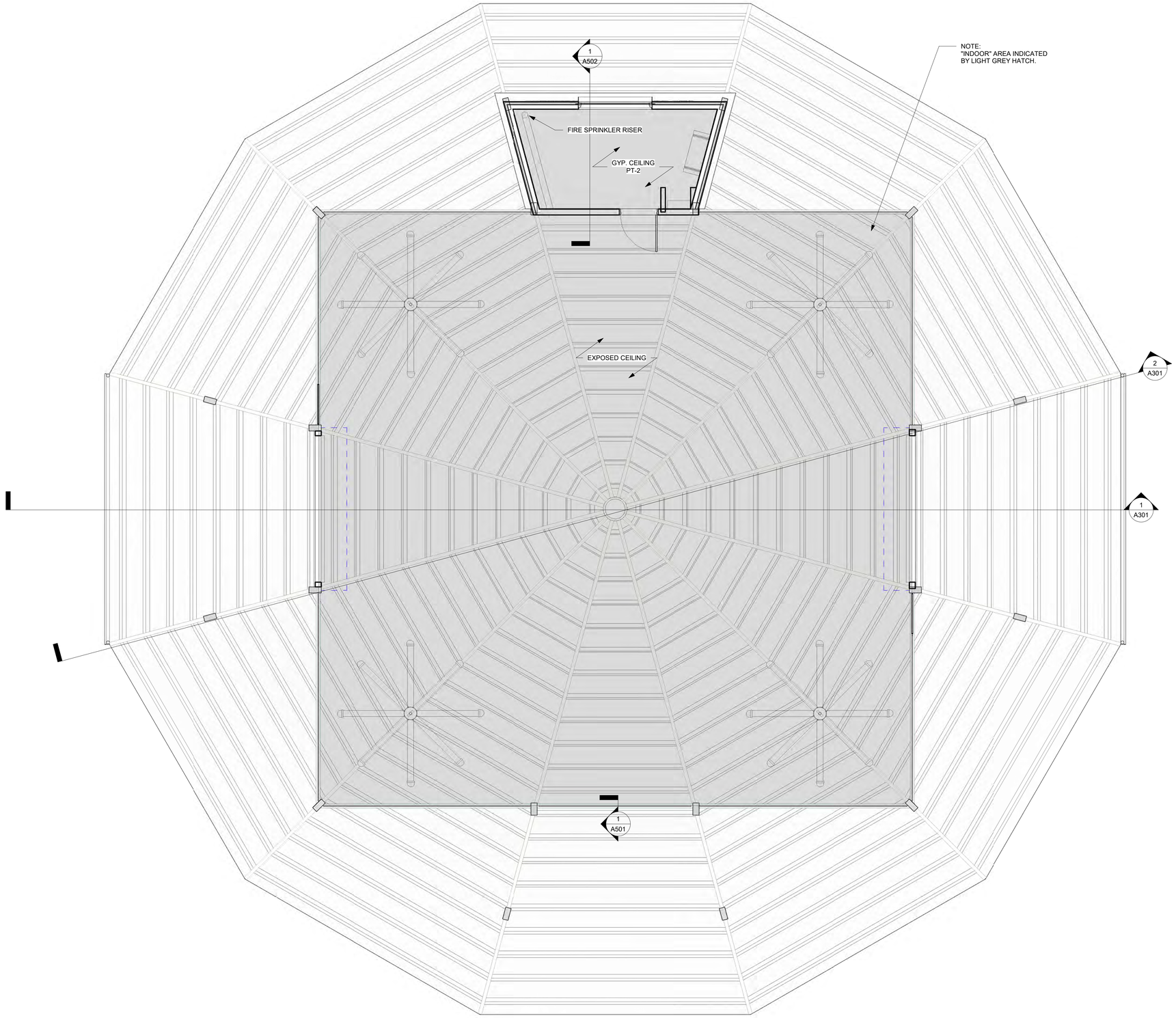

1 FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date
1	Revision 1	04/23/2025

23 APR. 2025	SK-1
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Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

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FIRST FLOOR REFLECTED CEILING PLAN & NOTES

ALEXANDER JAMES ADAMICK
REG. NO. 8148
STATE OF LOUISIANA
REGISTERED ARCHITECT

DATE:	4/23/2025 8:55:28 AM
PROJECT NO.:	2024-23
DRAWING BY:	CH
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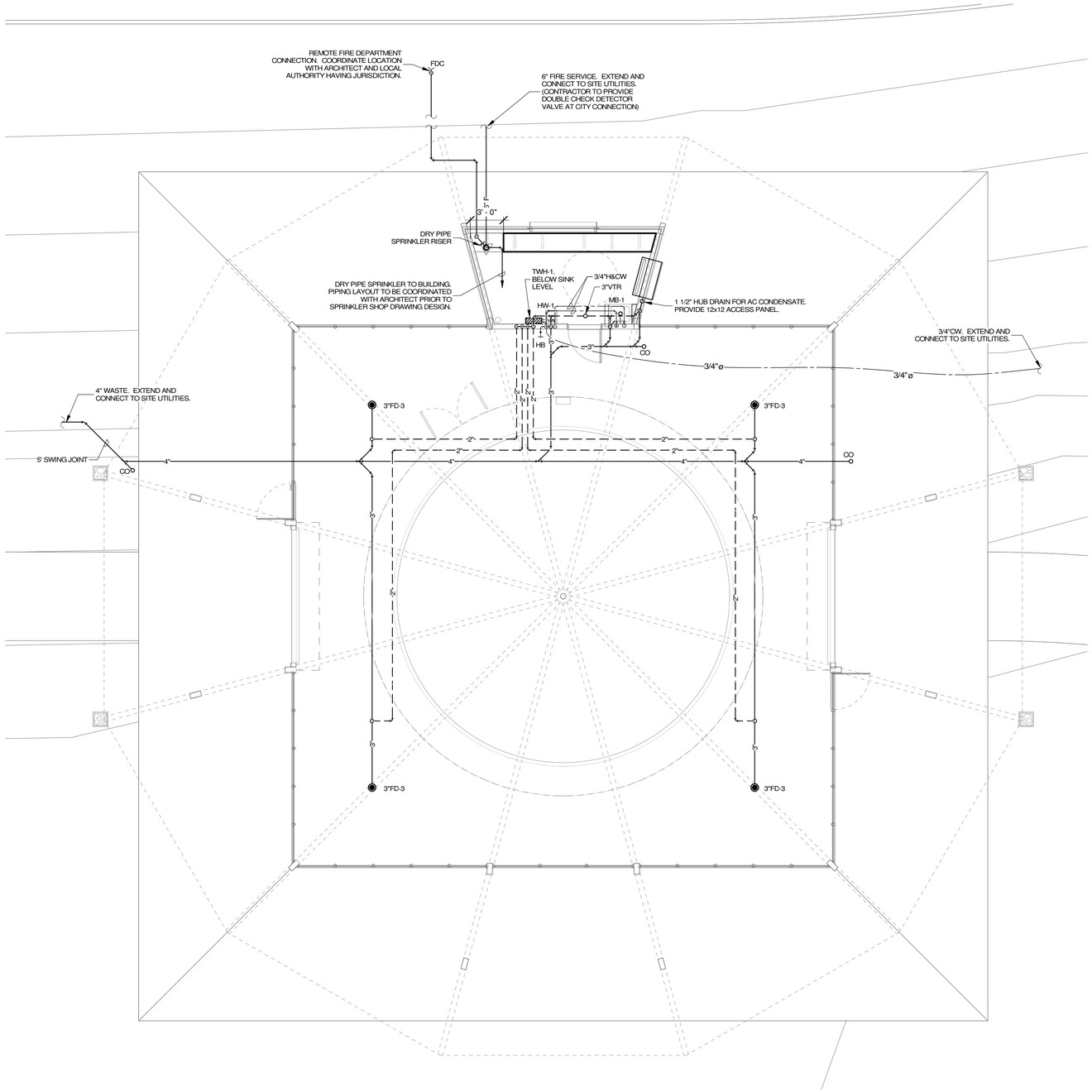
SHEET NO.:	A901
CAD FILE NO: 2024-23\PDF OUT\EC	30/38



FIRST FLOOR - PLUMBING & FIRE PROTECTION

SCALE: 3/16" = 1'-0"

PLUMBING GENERAL NOTES

1. WASTE PIPING SHOWN ON THE FLOOR PLAN SHALL BE INSTALLED BELOW THE FLOOR SLAB AND IN WALLS UNLESS OTHERWISE NOTED.
2. WATER, VENT AND FIRE PROTECTION PIPING SHOWN ON THE FLOOR PLAN SHALL BE INSTALLED ABOVE THE CEILING UNLESS OTHERWISE NOTED.
3. VENT PIPING FROM ADJACENT FIXTURES SHALL BE COMBINED AT THE DISCRETION OF THE CONTRACTOR AND EXTENDED THROUGH THE ROOF. PIPING SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS. VENT PIPING SHALL BE SIZED AND INSTALLED TO MEET THE MINIMUM REQUIREMENTS OF THE APPLICABLE CODES.
4. AS PER THE NATIONAL ELECTRICAL CODE, DUCTWORK AND PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS OR OTHER ELECTRICAL EQUIPMENT. NATIONAL ELECTRICAL CODE SERVICE CLEARANCES SHALL BE MAINTAINED FOR ELECTRICAL EQUIPMENT. COORDINATE TRADES.
5. SUPPORTS, HANGERS, BRACES, BOLTS, STRUCTURAL STEEL, AND OTHER MISCELLANEOUS ITEMS INSTALLED TO SUPPORT PIPING OR EQUIPMENT SHALL BE HOT DIPPED GALVANIZED. ALL FIELD WELDS AND ANY DAMAGE TO THE GALVANIZING SHALL BE COATED WITH TWO COATS OF COLD GALVANIZING COMPOUND.
6. CLEARANCE FOR MEP SYSTEMS IS MARGINAL IN SOME AREAS. TRADES MUST BE CAREFULLY COORDINATED. PIPING MUST OFFSET AND TRANSITION TO SUIT FIELD CONDITIONS. THE DRAWINGS INDICATE THE DESIGN INTENT. HOWEVER, PIPE ROUTING IS DIAGRAMMATIC. REQUIRED OFFSETS AND TRANSITIONS ARE NOT SHOWN. PREPARE PIPING SHOP DRAWINGS AND PROVIDE OFFSETS, TRANSITIONS AND ADJUSTMENTS TO FULLY COORDINATE TRADES. FIELD VERIFY CLEARANCES BEFORE INSTALLING PIPING OR EQUIPMENT. ADJUST TO SUIT FIELD CONDITIONS.

FIRE PROTECTION NOTES

1. DESIGN AND PROVIDE A COMPLETE DRY PIPE SPRINKLER SYSTEMS FOR THE BUILDING. THE SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 REQUIREMENTS FOR THE OCCUPANCY OF THE PROJECT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL SPRINKLER HEADS TO BE COORDINATED WITH STRUCTURE. LOCATE SPRINKLER HEADS IN A CONSISTENT AND SYMMETRICAL PATTERN IN RELATION TO LIGHT FIXTURES BEAMS FANS, ETC... PIPING LAYOUT TO BE COORDINATED WITH ARCHITECT PRIOR TO SPRINKLER SHOP DRAWING DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

THESE PLANS HAVE BEEN PREPARED UNDER MY CLOSE PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH CITY PARISH REQUIREMENTS. I AM NOW GENERALLY ADMINISTERING THE WORK, BUT NOT TO THE EXTENT THAT WILL ELIMINATE THE NEED FOR CITY PARISH INSPECTIONS.

04-01-25

GVA ENGINEERING, L.L.C.
PROJECT No. 4476

STATE OF LOUISIANA
DAVID C. CODE
License No. 24061
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING

ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

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Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

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FIRST FLOOR PLAN - PLUMBING

DATE:	4/9/2025 3:57:28 PM
PROJECT NO.:	2024-23
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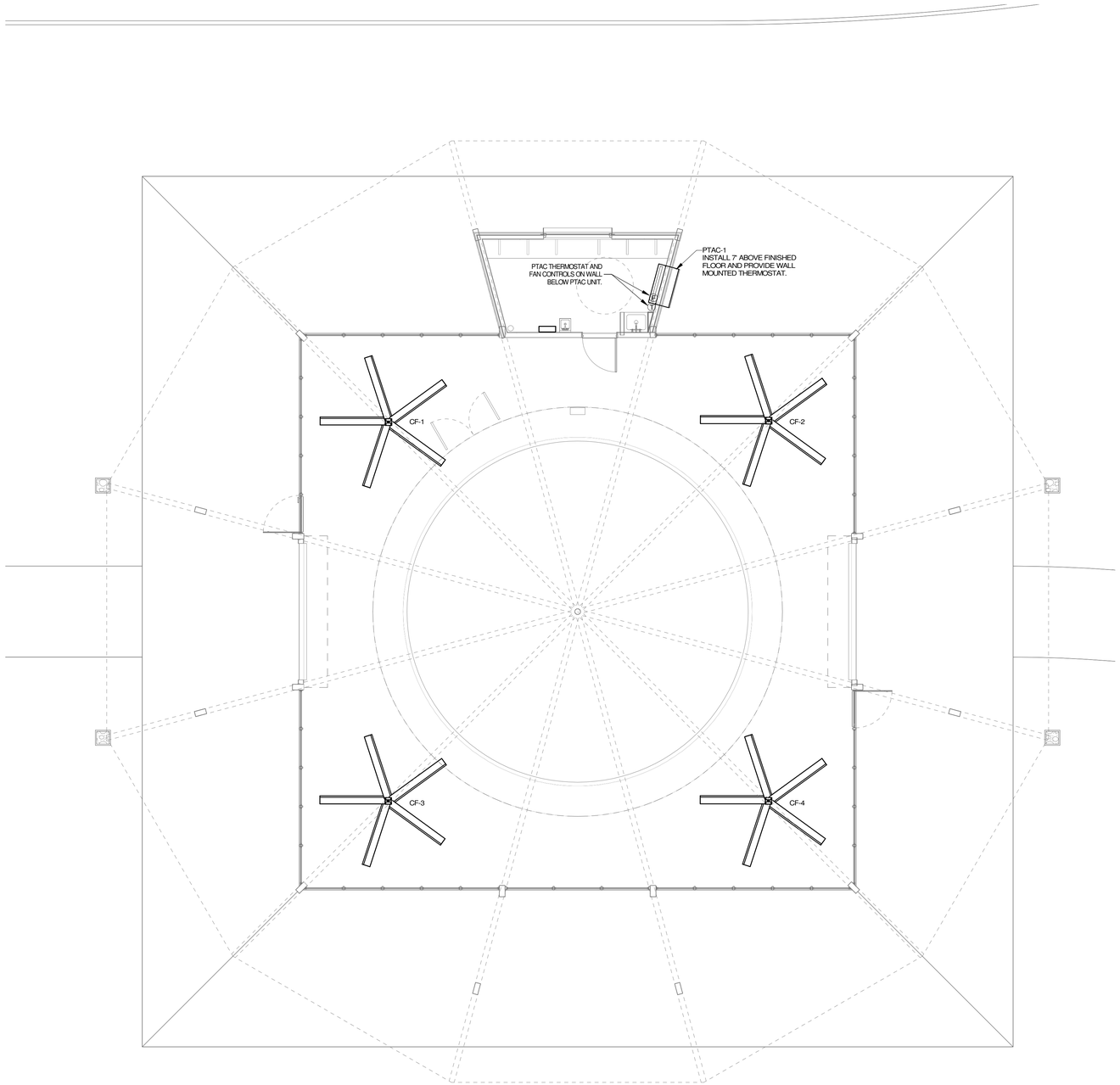

FIRST FLOOR - HVAC

SCALE: 3/16" = 1'-0"

HVAC GENERAL NOTES

1. REVIEW DRAWINGS FOR ALL DIVISIONS PRIOR TO BIDDING TO UNDERSTAND CONDITIONS. DUE TO THE EXPOSED STRUCTURE, A HIGHER THAN NORMAL DEGREE OF COORDINATION BETWEEN TRADES WILL BE REQUIRED. EQUIPMENT LOCATIONS MUST BE COORDINATED WITH LIGHTING AND SPECIAL SYSTEMS, SPRINKLER WORK, ELECTRICAL RACEWAYS, ELECTRICAL CABLE TRAYS, PLUMBING, CEILINGS, STRUCTURE ETC.

2. THE HVAC SYSTEMS SHALL NOT BE OPERATED AT ANY TIME WITHOUT ALL FILTRATION IN PLACE. PROVIDE CLEAN FILTERS AT SUBSTANTIAL COMPLETION. TEMPORARY FILTER MEDIA SHALL BE INSTALLED ACROSS RETURN AND EXHAUST GRILLES AND REGISTERS IF SYSTEMS ARE OPERATED PRIOR TO OCCUPANCY. PRIOR TO STARTING THE UNIT, THE CONTRACTOR MUST OBTAIN THE OWNER'S CONSENT THAT IT IS ACCEPTABLE TO OWNER FOR THE CONTRACTOR TO UTILIZE THE EQUIPMENT DURING THE CONSTRUCTION PHASE. THE SYSTEMS SHALL NOT BE STARTED UNTIL THE JOBSITE IS THOROUGHLY CLEANED. WHENEVER FLOORS OR WALLS OR SANDED, THE HVAC SYSTEMS MUST BE DE-ENERGIZED AND THE AREAS MUST BE CLEANED BEFORE THE HVAC SYSTEMS ARE RESTARTED.

3. SUPPORTS, HANGERS, BRACES, BOLTS, STRUCTURAL STEEL, AND OTHER MISCELLANEOUS ITEMS INSTALLED TO SUPPORT PIPING OR EQUIPMENT SHALL BE HOT DIPPED GALVANIZED. ALL FIELD WELDS AND ANY DAMAGE TO THE GALVANIZING SHALL BE COATED WITH TWO COATS OF COLD GALVANIZING COMPOUND.

4. PER THE NATIONAL ELECTRICAL CODE, DUCTWORK AND PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS OR OTHER ELECTRICAL EQUIPMENT. NATIONAL ELECTRICAL CODE SERVICE CLEARANCES SHALL BE MAINTAINED FOR ELECTRICAL EQUIPMENT. COORDINATE TRADES.

5. THE LOCATION OF ALL DEVICES TO BE INSTALLED IN FLOORS, ON WALLS AND CEILINGS, ASSOCIATED WITH MECHANICAL, ELECTRICAL, FIRE PROTECTION, SECURITY AND OTHER SUCH SYSTEMS, NOT SPECIFICALLY INDICATED ON THE DRAWINGS, BUT PART OF THE CONSTRUCTION CONTRACT, SHALL BE APPROVED BY THE ARCHITECT. FAILURE TO RECEIVE APPROVAL SHALL BE CAUSE FOR REMOVAL AND RELOCATION AT NO ADDITIONAL COST TO THE OWNER.

ADAMICK ARCHITECTURE
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Project: #2024-23

JOE BROWN PARK CAROUSEL ENCLOSURE

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FIRST FLOOR PLAN - HVAC

STATE OF LOUISIANA
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04-01-25

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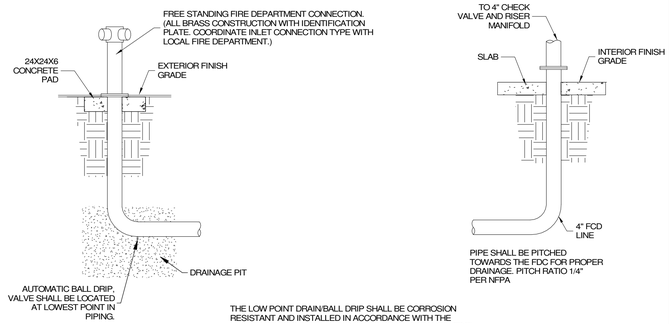
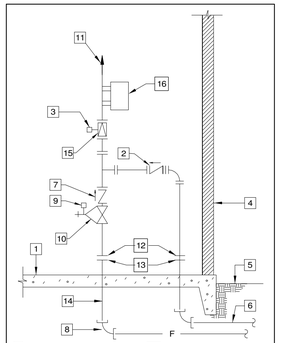


THE LOW POINT DRAIN/BALL DRIP SHALL BE CORROSION RESISTANT AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURES INSTRUCTIONS. THE DRAIN ARRANGEMENT SHALL BE SUBMITTED AND APPROVED BY AUTHORITY HAVING JURISDICTION.

A DRAINAGE PIT TWO FEET DEEP AND TWO FEET IN DIAMETER SHALL BE EXCAVATED BELOW THE DRAIN AND FILLED WITH COMPACTED CRUSHED STONE MIXED WITH COARSE SAND TO A LEVEL 6 INCHES ABOVE THE DRAIN.

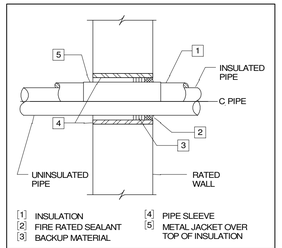
PROVIDE LOCKING FLANGE AT ALL JOINTS AND THRUST BLOCKS WHERE REQUIRED.

REMOTE FDC DRAINAGE DETAIL



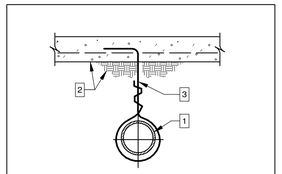
1 FINISHED FLOOR
2 CHECK VALVE
3 PRESSURE SWITCH
4 EXTERIOR WALL
5 GRADE
6 TO REMOTE FIRE DEPARTMENT CONNECTION
7 SYSTEM CHECK VALVE
8 RESTRAINED JOINT
9 SUPERVISORY SWITCH
10 O S & Y GATE VALVE
11 TO SPRINKLER SYSTEM
12 BEGIN WORK OF SPRINKLER CONTRACTOR
13 TERMINATION POINT OF WORK PLUMBER
14 UNDERGROUND SERVICE - SEE SITE PLAN
15 DRY PIPE VALVE
16 AIR COMPRESSOR

DRY PIPE FIRE PROTECTION RISER



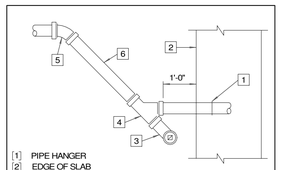
1 INSULATION
2 FIRE RATED SEALANT
3 BACKUP MATERIAL
4 PIPE SLEEVE
5 METAL JACKET OVER TOP OF INSULATION

PIPE THROUGH WALLS



1 CAST IRON PIPE
2 CONCRETE SLAB ON FILL
3 STAINLESS STEEL HANGER

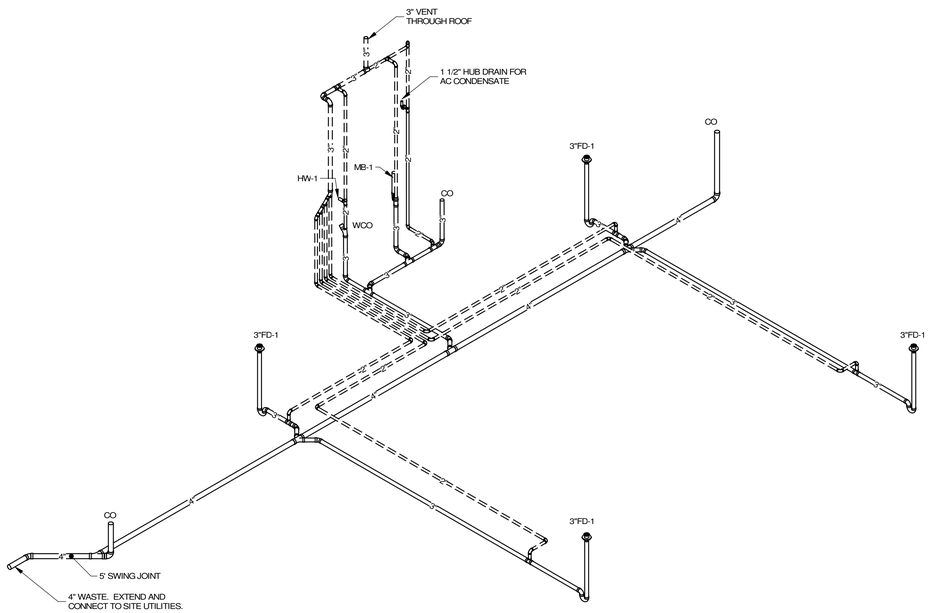
CAST IRON PIPE HANGER



1 PIPE HANGER
2 EDGE OF SLAB
3 LONG SWEEP 1/4 BEND WITH CLEAN-OUT
4 WYE
5 1/8 BEND
6 PIPE - SEE PLAN FOR SIZE AND LENGTH

(ALL PIPE FITTINGS TO HAVE GASKETED CONNECTIONS)

PIPE SWING JOINT



PLUMBING RISER

SCALE:

PLUMBING LEGEND

	SOIL AND WASTE PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
VTR	VENT THRU ROOF
FD	FLOOR DRAIN
CO	CLEANOUT
WCO	WALL CLEANOUT

FIRE PROTECTION LEGEND

F — FIRE SERVICE

DRAIN SCHEDULE

DESIG.	JAY R. SMITH No.	DESCRIPTION	REMARKS
FD-1	2010-A-P050	C.I. BODY WITH NICKEL BRONZE STRAINER & TRAP PRIMER CONNECTION	

NOTES:

1 PROVIDE ASSE 1072 BARRIER TYPE DRAIN TRAP EVAPORATION PREVENTION DEVICE IN ALL FLOOR DRAINS.

PLUMBING FIXTURE SCHEDULE

FIXTURE	SYMBOL	WASTE	VENT	COLD WATER	HOT WATER
LAVATORY	L	2"	2"	1/2"	1/2"
FLOOR DRAINS	FD	2"-4"	2"	-	-

ELECTRIC WATER HEATER SCHEDULE (TANKLESS)

HEATER NUMBER (GWH)	TWH-1
LOCATION	SEE DRAWINGS
MANUFACTURER	CHRONOMITE OR EQUAL
MODEL NUMBER	CM-15L/240-ADJ
OPERATING WEIGHT (LBS)	5
MINIMUM FLOW RATE (GPM)	0.35
FLOW (GPM)	2.0
TEMPERATURE RISE (°F)	75
KILOWATTS	21.6
VOLTAGE / PHASE	240/3

NOTE - TANKLESS WATER HEATERS TO BE INSTALLED BELOW FAUCET.

FAN SCHEDULE

FAN NUMBER		CF-1, CF-2, CF-3 & CF-4
AREA SERVED		SEE DRAWING
MANUFACTURER		GREENHECK OR EQUAL
MODEL NUMBER		DC-5-12-13LV
OPERATING WEIGHT (LBS)		120
TYPE		HIGH VOLUME, LOW SPEED CEILING FAN
TYPE OF DRIVE		DIRECT
CFM		8,500
RPM		103
MIN MOTOR POWER		175 W
VOLTAGE/PHASE		115/1
ACCESSORIES	DISCONNECT	YES
	SPEED CONTROL	YES
	INTERLOCKED WITH	FAN CONTROLS

NOTES:

1. PROVIDE EXTENSION TUBE LENGTH AND MOUNTING BRACKET KIT PER MANUFACTURER INSTALLATION CLEARANCES REQUIREMENTS. VERIFY WITH FINAL MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ORDERING.
2. FACTORY WARRANTY EQUAL TO 10 YEARS.
3. PROVIDED FANS WITH A HVLS FAN CONTROLLER CAPABLE OF OPERATING A MINIMUM OF 4 HVLS FANS.
4. FAN COLOR SELECTION BY ARCHITECT.
5. INTERLOCK CEILING FAN CONTROLS WITH FIRE ALARM TO DE-ENERGIZE CEILING FANS IF A FIRE IS DETECTED.
6. POWER WIRING PIGTAIL.
7. PROVIDE PLUG-AND-PLAY NETWORK COMMUNICATION WIRING PIGTAIL, TERMINATED WITH SHIELDED CAT-5E SPLITTER (RJ45 PORTS) WITH 100 FT OF SHIELDED, TWISTED PAIR (STP) CAT-5E CONTROL CABLE.
8. PROVIDE FIRE ALARM WIRING PIGTAIL, INTERNAL TERMINATED WITH CRIMPCONNECTOR LOW-VOLTAGE (24VDC/VAC OR 115VAC), NORMALLY CLOSED ELECTROMECHANICAL FIRE ALARM RELAY.
9. PROVIDE BRAIDED GALVANIZED STEEL SAFETY CABLE WITH EASY-INSTALL GRIPPLE HARDWARE.
10. PROVIDE NEMA-1, TOGGLE, SHIPPED WITH UNIT AND UL/CUL-507 LISTED FOR DAMP LOCATIONS.

THRU-WALL A.C. UNIT SCHEDULE

UNIT NUMBER		PTAC-1
LOCATION		SEE DRAWINGS
MANUFACTURER		FRIEDRICH
MODEL NUMBER		PZE15K5SC
OPERATING WEIGHT (LBS)		150
COOLING DATA	CFM (HIGH/LOW)	450/340
	COOLING (BTU)	14,500
	EER RATIO	10.0
HEATING DATA	KILOWATT	5
FAN DATA	COMPRESSOR LRA	34.7
	VOLTAGE / PHASE	230/1
ACCESSORIES	SUB BASE KIT	YES - PXSBA
	DRAIN KIT	YES - PXDR10
	REMOTE THERMOSTAT	YES - WIRED 7 DAY PROGRAMBLE, RT7P
	WALL SLEVE / ARCHITECTUAL GRILLE	YES - PDXWSA / PXAA
	AIR DEFLECTOR	YES - HUBBELL DF30

NOTES:

1. UNIT TO BE INSTALLED 7 FEET ABOVE FINISHED FLOOR. PROVIDE PROPER SUPPORT FOR MOUNTING UNIT AS INDICATED.

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MECHANICAL SCHEDULES, DETAILS AND RISER DIAGRAM

STATE OF LOUISIANA
DAVID C. CODE
License No. 34061
PROFESSIONAL ENGINEER
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MECHANICAL ENGINEERING
04-01-25

DATE:	4/9/2025 3:57:33 PM
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MECHANICAL GENERAL PROVISIONS

1. PROVIDE LABOR, MATERIAL AND EQUIPMENT FOR COMPLETE OPERATING SYSTEMS.
2. CUTTING AND PATCHING FOR THE WORK OF THIS DIVISION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL CONDITIONS.
3. NO STRUCTURAL MEMBERS SHALL BE FIELD CUT OR PIERCED WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
4. WORK SHALL BE EXECUTED IN ACCORDANCE WITH CURRENT ENGINEERING PRACTICES, THE LATEST EDITION OF APPLICABLE CODES AND PUBLICATIONS AND THE STATE FIRE MARSHAL ACT.
5. APPLY FOR AND PAY FOR GOVERNMENTAL AND REGULATORY AGENCY REVIEWS, PERMITS AND INSPECTIONS. NO WORK SHALL BE CONCEALED UNTIL APPROVED BY THE GOVERNMENTAL OR REGULATORY AGENCY INSPECTORS. UPON COMPLETION, A CERTIFICATE OF APPROVAL FROM THE APPROPRIATE REGULATORY AGENCIES SHALL BE PROVIDED BY THE CONTRACTOR.
6. BIDDER SHALL VISIT THE SITE OF PROPOSED WORK, NO COMPENSATION WILL BE ALLOWED FOR FAILURE TO BE INFORMED OF ANY DIFFICULTIES AND RESTRICTIONS.
7. SUPPORTS FOR EQUIPMENT SHALL BE FURNISHED AS WORK OF THIS CONTRACT.
8. EQUIPMENT AND MATERIALS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
9. EQUIPMENT, WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR UNLESS EXTENDED WARRANTIES ARE HEREINAFTER SPECIFIED.
10. SERVICES IN THE EXISTING BUILDING ARE TO BE KEPT IN OPERATION AT ALL TIMES EXCEPT WHEN SPECIFIC PERMISSION IS GIVEN BY THE OWNER. WORK SHALL BE SCHEDULED AND EXECUTED SO THAT THE INTERRUPTION IS AS SHORT AS POSSIBLE. CONTRACTOR SHALL ALLOW FOR THE COST OF ANY OVERTIME WORK IN HIS BID.
11. DEMOLITION AND REMOVAL OF MECHANICAL EQUIPMENT INDICATED OR AS REQUIRED FOR THE INSTALLATION OF THE NEW WORK SHOWN SHALL BE WORK OF THIS CONTRACT.
12. THE INSTALLATION OF NEW SYSTEMS OR EQUIPMENT SHALL NOT RENDER ANY EXISTING SYSTEM INOPERATIVE UNLESS THE ENTIRE SYSTEM IS REMOVED OR REPLACED.
13. EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITERS LABORATORIES, INC (UL).
14. MANUFACTURERS NAMES AND CATALOG NUMBERS ARE LISTED TO ESTABLISH A STANDARD OF QUALITY. ALTERNATE PRODUCTS MAY BE USED IF SUBMITTED TO THE ARCHITECT AND FOUND ACCEPTABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES AND COSTS WHICH MAY BE INCURRED BY THE USE OF SUBSTITUTE MATERIALS.
15. WITHIN 30 DAYS AFTER THE AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT SIX COPIES OF EQUIPMENT TO BE USED ON THE PROJECT.
16. HANGERS AND CLAMPS SHALL ADEQUATELY SUPPORT THE WEIGHT OF THE PIPE AND ITS CONTENTS AND SHALL BE UL LISTED.
17. EQUIPMENT SHALL BE THOROUGHLY CLEANED PRIOR TO ACCEPTANCE OF THE PROJECT.
18. CONTRACTOR SHALL FURNISH THE SERVICES OF A QUALIFIED SERVICEMAN TO START-UP AND ADJUST THE EQUIPMENT.
19. PRIOR TO THE TIME SCHEDULED FOR OCCUPANCY, CONTRACTOR SHALL INSTRUCT THE OWNER IN THE CARE AND OPERATION OF EQUIPMENT.

HVAC SPECIFICATIONS

1. THE WORK COVERED BY THIS SPECIFICATION SHALL INCLUDE A COMPLETE AND OPERATING AIR CONDITIONING SYSTEM FOR THIS PROJECT.
2. THRU WALL AIR CONDITIONING UNITS, PROVIDE UNITS HAVING CAPACITIES SCHEDULED ON THE DRAWINGS. UNITS SHALL BE ENCLOSED IN WEATHERPROOF CASING DESIGNED FOR WALL INSTALLATION, GALVANIZED, BONDERIZED WITH BAKED ENAMELED SURFACES. UNITS SHALL BE COMPLETE WITH REFRIGERATION COMPRESSOR, AIR COOLED CONDENSER, FANS, ELECTRIC RESISTANT HEAT AND FACTORY WIRED CONTROLS. EACH COMPRESSOR SHALL BE HERMETIC TYPE, MOUNTED ON VIBRATION ISOLATORS. EACH AIR COOLED CONDENSER AND EVAPORATOR SHALL HAVE COPPER TUBE ALUMINUM OR ALUMINUM TUBE ALUMINUM FIN COILS. CONTROLS SHALL PROVIDE FOR COMPRESSOR AND HEAT CONTROL BY CYCLING. TWO-SPEED FAN CONTROL AND VENTILATING CONTROL. ACCEPTABLE MANUFACTURERS: CARRIER, GENERAL ELECTRIC, FEDDERS, YORK, OR APPROVED EQUAL
3. FANS, FANS SHALL BE OF THE SIZES AND TYPES SCHEDULED ON THE DRAWINGS AND SHALL BE COMPLETE WITH ACCESSORIES SCHEDULED. FANS SHALL BE RATED IN ACCORDANCE WITH AMCA STANDARDS AND SHALL BE AMCA LABELED. FRACTIONAL HORSEPOWER MOTORS SHALL BE PROVIDED WITH INTERNAL OVERLOAD PROTECTION AND DISCONNECTING MEANS.
4. ELECTRIC WIRING, MATERIALS SHALL BE NEW AND SHALL BE UNDERWRITERS LABORATORIES LABELED OR LISTED. WIRING IN EQUIPMENT ROOMS, WIRING INSTALLED OUTDOORS, WIRING IN INACCESSIBLE SPACES (INCLUDING DROPS TO WALL MOUNTED THERMOSTATS) AND ANY WIRING WHICH CANNOT BE CONCEALED SHALL BE CONTAINED IN METALLIC RACEWAYS. RACEWAYS SHALL MEET THE REQUIREMENTS OF ELECTRICAL SPECIFICATIONS. WIRING EXPOSED IN PLENUMS SHALL BE U.L. RATED FOR USE IN PLENUMS. CONTROL OR SIGNALING WIRING SHALL NOT BE INSTALLED IN RACEWAYS WITH POWER WIRING. WIRING FOR HIGHER THAN 70 VOLTS SHALL BE COPPER #12 AWG OR LARGER AND SHALL BE CONTAINED IN METALLIC RACEWAYS. RACEWAYS SHALL MEET THE REQUIREMENTS OF ELECTRICAL SPECIFICATIONS. WIRING TYPE, INSULATION, ETC. SHALL MEET THE REQUIREMENTS OF ELECTRICAL SPECIFICATIONS. WIRING FOR LESS THAN 70 VOLTS SHALL BE COPPER #18 OR LARGER. WIRE SIZE, TYPE AND INSULATION SHALL BE SELECTED TO SUIT THE APPLICATION. WIRING AND RACEWAYS FOR LINE VOLTAGE INTERLOCKING SHALL BE WORK OF THIS SECTION. VOLTAGE SHALL BE 115 VOLTS, SINGLE PHASE, 60 HERTZ. PROVIDE TRANSFORMERS WHERE REQUIRED. CONTROL AND SIGNALING WIRING AND RACEWAYS BETWEEN EQUIPMENT SPECIFIED UNDER THIS SECTION SHALL BE WORK OF THIS SECTION.

PLUMBING SPECIFICATIONS

1. SHUT-OFF VALVES ABOVE GRADE: 2" AND SMALLER - NIBCO #S-580-LF, LEAD FREE SWEAT END BALL VALVE. VALVES INSTALLED IN INSULATED PIPING SHALL HAVE SUITABLE LENGTH STEM EXTENSIONS.
2. SOIL, WASTE, AND VENT:

   UNDERGROUND AND UNDERSLAB PIPE AND FITTINGS: PVC-DWV (POLY VINYL CHLORIDE), SCHEDULE 40, SOLID WALL PLASTIC PIPE, ASTM D-1785; AND DRAINAGE TYPE FITTINGS WITH SINGLE OR DOUBLE HUBS, ASTM D-2665; JOINTS SHALL BE SOLVENT WELDED USING AN APPROVED SOLVENT CEMENT AND CLEANER. SWING JOINT FITTINGS SHALL BE SINGLE OR DOUBLE HUB, ASTM D-2466 WITH CAPTURED GASKETS.

   ABOVE GRADE PIPE AND FITTINGS: PVC-DWV (POLY VINYL CHLORIDE), SCHEDULE 40, SOLID WALL PLASTIC PIPE, ASTM D-1785; AND DRAINAGE TYPE FITTINGS WITH SINGLE OR DOUBLE HUBS, ASTM D-2665; JOINTS SHALL BE SOLVENT WELDED USING AND APPROVED SOLVENT CEMENT AND CLEANER. HORIZONTAL WASTE ARMS BETWEEN STACKS AND PLUMBING FIXTURES SHALL BE PVC-DWV (POLYVINYL CHLORIDE) SCHEDULE 40, SOLID WALL PLASTIC PIPE, ASTM D 1785 AND DRAINAGE TYPE FITTINGS WITH SINGLE OR DOUBLE HUBS, ASTM D-2665; JOINTS SHALL BE SOLVENT WELDED USING AN APPROVED SOLVENT CEMENT AND CLEANER.

3. DOMESTIC WATER, PIPING AND FITTINGS ABOVE THE SLAB SHALL BE ASTM B88 SEAMLESS COPPER WATER TUBE, TYPE L, HARD DRAWN WITH WROUGHT COPPER PRESSURE TYPE FITTINGS, ANSI B16.22. JOINTS SHALL BE SOLDERED TYPE USING ASTM B32, ALLOY GRADE 95A (95-5) SOLDER. PIPE AND FITTINGS UNDER SLABS ON GRADE: PIPING 1½" AND SMALLER - SEAMLESS COPPER TUBE, TYPE L, SOFT ANNEALED, ASTM B 88. NO JOINTS WILL BE ALLOWED BELOW THE SLAB. TURN PIPING UP AND MAKE JOINTS ABOVE THE SLAB.
4. INSULATION

   WATER PIPING SHALL BE INSULATED WITH 1/2" THICK PREFORMED, SPLIT TYPE, FIBERGLASS PIPE INSULATION WITH AN ALL-SERVICE VAPOR PROOF JACKET. SEAMS AND LAPS SHALL BE STAPLED. FITTINGS SHALL ALSO BE INSULATED WITH BLANKET TYPE INSULATION.

   P-TRAPS RECEIVING AIR CONDITIONING CONDENSATE ABOVE THE SLAB SHALL HAVE THE WASTE PIPING AND FITTINGS INCLUDING THE BOTTOM OF THE FLOOR DRAIN INSULATED FROM THE P-TRAP TO THE WASTE STACK. INSULATION SHALL BE ¾ POUND PER CUBIC FOOT DENSITY, COMMERCIAL GRADE DUCT WRAP WITH FOIL FACING HAVING A MAXIMUM "K" FACTOR PER ASTM C 518 OF 0.32 BTU×IN/HR×FT²×F AT A MEAN TEMPERATURE OF 75 DEGREES F.

4. FIRE PROTECTION PIPING:

   UNDERGROUND PIPE AND FITTINGS - EXTRUDED UNPLASTICIZED PRESSURE RATED POLYVINYL-CHLORIDE (PVC) PLASTIC PIPE, AWWA C900 CLASS 150 (DR8); WITH INTEGRAL BELL AND SPIGOT JOINTS, ASTM D 3139; JOINTS SHALL BE PUSH TYPE, ASTM D 3139, USING A SOLID CROSS SECTION ELASTROMERIC RING: ASTM F-477; GASKETS FURNISHED BY FITTING MANUFACTURER; FITTINGS SHALL BE CAST IRON WATER MAIN TYPE: CI-PVC, AMSI/AWWA C104/821.4, CEMENT MORTAR LINING SHALL BE A MINIMUM OF 1/8" THICK. ANSI/AWWA C104 A21.4.

   PIPING PENETRATING BUILDING FLOORS, OR WALLS - DUCTILE IRON PIPE, CLASS 52, 350 PSI, ANSI A21.51; CEMENT MORTAR LINING SHALL BE A MINIMUM OF 1/8" THICK, ANSI A21.4. PIPE AND FITTINGS SHALL HAVE AN ANSI A21.11 MECHANICAL JOINT WITH STAINLESS STEEL BOLTS, NUTS AND WASHERS AND AN ANSI B16.1 FLANGED JOINT ABOVE FLOOR LINE.

5. COMPRESSED AIR PIPING: PIPE AND FITTINGS ABOVE GRADE: ERW BLACK CARBON STEEL PIPE, SCHEDULE 40, ASTM A 53, GRADE B; FITTINGS SHALL BE THREADED BLACK MALLEABLE IRON, CLASS 150, ANSI B16.3; JOINTS SHALL BE THREADED, ANSI B2.1. WHERE STEEL PIPING IS EXPOSED TO THE WEATHER, PIPE AND FITTINGS SHALL BE GALVANIZED.
6. PLUMBING FIXTURES:

   HANDWASH (HW-1) ADA FIXTURE, ADVANCE TABCO #7-PS-45 OR EQUAL. HAND SINK, WALL MOUNTED, 20" WIDE X 16" FRONT-TO-BACK X 8" DEEP BOWL, 18 GAUGE 304 STAINLESS STEEL, SPLASH MOUNTED GOOSENECK FAUCET, 1.0 GPM AERATOR, BASKET DRAIN AND WALL BRACKET. LEAD FREE ASSE 1070 COMPLIANT POINT OF USE MIXING VALVE, 3/8" O.D. CHROME PLATED COMPRESSION TEE, FLEXIBLE CHROME PLATED BRASS SUPPLY RISERS WITH CONE OR FLANGED TOP. 1¼"X1½" 17-GAUGE BRASS SLIP JOINT TYPE P-TRAP. FLEXIBLE CHROME PLATED BRASS SUPPLY RISERS WITH CONE OR FLANGED TOP, CHROME PLATED WALL EXTENSIONS, AND 1/4 TURN WHEEL HANDLE ANGLE COMPRESSION STOPS.

   MOP SINK (MB-1) ADVANCE TABCO MODEL 9-OP-20 OR JUST MANUFACTURING MODEL C-2523, ONE-PIECE 10" HIGH 304 STAINLESS STEEL AND INTEGRAL DRAIN WITH 3" FLAT CHROME PLATED BRASS STRAINER AND 16" HIGH BACK SPLASHES ON ALL THREE SIDES. AMERICAN STANDARD #8354.112 OR SPEAKMAN #SC-5811-RCP-CK WALL MOUNTED MIXING FAUCET WITH INTEGRAL STOPS, CHECK VALVES, VACUUM BREAKER AND WALL BRACE. CHRONOMITE 2.0 GPM HOSE BIB ADAPTER (A-810VR-2.0), WILLIAMS #T-35 OR FIAT #832-AA, 36" LONG X 5/8" RUBBER HOSE AND STAINLESS STEEL HOSE BRACKET. WILLIAMS #T-40 OR FIAT #889-CC STAINLESS STEEL MOP HANGER. 3" CAST IRON P-TRAP.

7. CLEANOUTS AND COVERS, CLEANOUT PLUGS INSTALLED IN PLASTIC PIPING SYSTEMS SHALL BE OF SAME MATERIAL AND HAVE RAISED SQUARE HEAD. COVERS INSTALLED OUTSIDE THE BUILDING SHALL BE CAST IRON, 10" DIAMETER, WITH A CAST IRON RING. WORD "SEWER" OR "DRAIN" SHALL BE CAST ON THE COVER. COVERS INSTALLED INSIDE THE BUILDING IN UN-CARPETED FLOORS SHALL BE CAST NICKEL BRASS, 10" DIAMETER, WITH A SCORIATED SATIN FINISH AND BRASS RING. ACCEPTABLE MANUFACTURERS, JOSAM #58610-10, SMITH #4810, WADE, ZURN, OR APPROVED EQUAL.
8. HOSE BIBBS, HOSE BIBBS SHALL BE ¾" NICKEL PLATED BRASS, FEMALE FLANGE TO WALL, VACUUM BREAKER INSTALLED AS AN INTEGRAL PART OF HOSE BIBB AND LOCK SHIELD WITH LOOSE KEY. ACCEPTABLE MANUFACTURERS: WOODFORD MODEL 24P, PRIER BRASS MODEL C135 NICKEL-PLATED FINISH OR APPROVED EQUAL.
9. TANKLESS WATER HEATERS SHALL BE A THERMOSTATIC TYPE WITH MICROPROCESSING TEMPERATURE CONTROL CAPABLE OF MAINTAINING OUTLET TEMPERATURE OF +/- 1 DEGREE F ACCURACY. UNIT SHALL HAVE ABS-UL 94 VA RATED COVER. ELEMENT SHALL BE REPLACEABLE CARTRIDGE INSERT. UNIT SHALL HAVE REPLACEABLE FILTER IN THE INLET CONNECTOR. ELEMENT SHALL BE IRON FREE, NICHEL CHROME MATERIAL . HEATER SHALL BE FITTED WITH 1/2" PIPE COMPRESSION NUTS (5/8" OD) OR 3/8" SLEEVES, TO ELIMINATE NEED FOR SOIDERING. MAXIMUM OPERATING PRESSURE OF 150 PSI. HEATER SHALL BE UL LISTED FOR USE WITHOUT TEMPERATURE AND PRESSURE RELIEF VALVE. UNIT SHALL BE HYDROSTATICALLY TESTED AT 300 PSI. ACCEPTABLE MANUFACTURERS: CHRONOMITE, EEMAX OR APPROVED EQUAL.

FIRE PORTECTIOIN SPECIFICATIONS

GENERAL

1. SCOPE: THE WORK UNDER THIS SECTION INCLUDES THE DESIGN AND INSTALLATION OF A COMPLETE COVERAGE ORDINARY HAZARD-GROUP 1 DRY PIPE AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, THE SYSTEM SHALL INCLUDE ITEMS SPECIFIED OR NECESSARY FOR A COMPLETE AND OPERATING SYSTEM. THE DRY PIPE SYSTEM SHALL BE PROVIDED WITH THE REQUIRED COMPONENTS TO PROVIDE A COMPLETE AND APPROVED WORKING SYSTEM WHICH SHALL INCLUDE BUT SHALL NOT BE LIMITED TO CHECK VALVE, CONTROL VALVE, DRY PIPE VALVE, COMPRESSOR, ACCELERATOR, BALL DRIPS, STRAINERS, PRESSURE SWITCHES, WATER GAUGES, DRAIN AND TEST VALVES, FIRE DEPARTMENT CONNECTION, AND VALVE AND SUPERVISORY SWITCHES.
2. SPECIAL REQUIREMENTS: THE PROJECT INCLUDES SEVERAL UNIQUE ELEMENTS WHICH WILL REQUIRE CAREFUL ATTENTION DURING PREPARATION OF SPRINKLER SYSTEM SHOP DRAWINGS. BIDDERS SHALL THOROUGHLY REVIEW ALL PORTIONS OF THE CONTRACT DOCUMENTS TO OBTAIN A FULL UNDERSTANDING OF PROJECT REQUIREMENTS. SOME OF THE UNIQUE ELEMENTS WHICH EFFECT LAYOUT OF THE SPRINKLER SYSTEM INCLUDE:
3. EXPOSED STRUCTURAL MEMBERS IN CAROUSEL AREA THAT SUPPORT A SLOPING ROOF. SPRINKLER PIPING SERVING THESE AREAS SHALL BE FULLY COORDINATED WITH THE ARCHITECT AND CONCEALED IF POSSIBLE. EXPOSED PIPING SHALL BE PRIMED AND PAINTED TO BLEND IN WITH BUILDING STRUCTURE. ARCHITECT TO SELECT COLOR AND FINISH.
4. PRIOR TO PERFORMING HYDRAULIC CALCULATIONS, THE CONTRACTOR SHALL MEET WITH THE ARCHITECT TO COORDINATE THE ROUTING OF ALL SPRINKLER PIPING. ONCE SHOP DRAWING ARE COMPLETE THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING PROPOSED HEAD LOCATIONS AND PROPOSED PIPING LAYOUT FOR THE ARCHITECT/ENGINEER REVIEW. THE DRAWINGS SHALL DEMONSTRATE FULL SPRINKLER COVERAGE AND FULL COORDINATION WITH CEILINGS, STRUCTURE, LIGHTING AND OTHER BUILDING ELEMENTS. THE LAYOUT AND ROUTING OF SPRINKLER PIPING SHALL BE APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF SPRINKLER SHOP DRAWINGS FOR SUBMISSION TO THE OFFICE OF THE STATE FIRE MARSHAL.
5. CONTRACTOR QUALIFICATIONS: THE INSTALLATION OF THE FIRE PROTECTION SYSTEM SHALL BE BY A LICENSED FIRE PROTECTION CONTRACTOR, CERTIFIED BY THE STATE OF LOUISIANA, REGULARLY ENGAGED IN THE INSTALLATION OF FIRE PROTECTION SYSTEMS AND EQUIPMENT.
6. SUBMITTALS: PREPARE EQUIPMENT BROCHURES, HYDRAULIC CALCULATIONS, AND SHOP DRAWINGS FOR THE WORK OF THIS CONTRACT. EQUIPMENT BROCHURES SHALL CONSIST OF ITEMS SPECIFIED HEREINAFTER AND ITEMS THAT ARE PERTINENT TO THE WORK. HYDRAULIC CALCULATIONS SHALL BE COMPUTER GENERATED IN AN ACCEPTABLE NFPA FORMAT. SHOP DRAWINGS SHALL SHOW THE LOCATION OF HEADS, ARRANGEMENT OF PIPING, EQUIPMENT AND DETAILS NECESSARY TO INSTALL THE WORK. SHOP DRAWING SIZE SHALL NOT EXCEED “E” SIZE (30" X 42") SHEETS.

   SUBMIT THE FOLLOWING TO THE ARCHITECT/ENGINEER FOR REVIEW:
      SIX SETS OF EQUIPMENT BROCHURES.
      SIX SETS OF HYDRAULIC CALCULATIONS.
      FOUR SETS OF SHOP DRAWINGS.
      COMPLETED LOUISIANA STATE FIRE MARSHAL'S PLAN REVIEW FORMS.
      CHECK FOR REVIEW FEE, IF APPLICABLE.

7. THE HYDRAULIC CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED BY AND CERTIFIED BY A NICET LEVEL III DESIGNER OR A REGISTERED LOUISIANA MECHANICAL ENGINEER.
8. IN THE EVENT ADDITIONAL CLARIFYING DETAILS AND/OR COMPONENTS ARE REQUIRED BY THE INSPECTING AUTHORITIES, THE CONTRACTOR SHALL PREPARE THE DETAILS, SECURE APPROVAL AND PROVIDE COMPONENTS AT NO ADDITIONAL COST TO THE OWNER.
9. ELECTRICAL WORK: ELECTRICAL WORK IN CONNECTION WITH WORK OF THIS SECTION NOT INDICATED AS WORK OF DIVISION 16 - ELECTRICAL, INCLUDING DISCONNECT SWITCHES FOR CONTROL WIRING, SHALL BE WORK OF THIS SECTION.

PRODUCTS

1. PIPING
   - A. INTERIOR WET SPRINKLER PIPING: PIPING 2" AND SMALLER - WELDED AND SEAMLESS CARBON STEEL PIPE, SCHEDULE 40, ASTM A 53, FITTINGS SHALL BE THREADED BLACK CAST IRON 125 PSI, ANSI B16 .4; JOINTS SHALL BE THREADED. PIPING 2½" AND LARGER - WELDED AND SEAMLESS CARBON STEEL PIPE, SCHEDULE 40, ASTM A 53; FITTINGS SHALL BE GROOVED TYPE MALLEABLE IRON, 500 PSI RATING, ASTM A 47, LISTED BY UL AND/OR FM; JOINTS SHALL BE ROLLED OR CUT GROOVED TYPE.
   - B. FLEXIBLE SPRINKLER PIPING AND FITTINGS ARE NOT ACCEPTABLE.
   - C. EXTERIOR WET SPRINKLER PIPING : PIPING 2" AND SMALLER - WELDED AND SEAMLESS GALVANIZED CARBON STEEL PIPE, SCHEDULE 40, ASTM A 53, FITTINGS SHALL BE THREADED HOT-DIPPED GALVANIZED MALLEABLE IRON, 125 PSI, ANSI B16.3; JOINTS SHALL BE THREADED. PIPING 2 1/2" AND LARGER -WELDED AND SEAMLESS HOT-DIPPED GALVANIZED CARBON STEEL PIPE, SCHEDULE 40, ASTM A 53; FITTING SHALL BE GROOVED TYPE HOT-DIPPED GALVANIZED MALLEABLE IRON, 500 PSI, ASTM A 47, UL/FM LISTED; JOINTS SHALL BE ROLLED GROOVED TYPE.
   - D. INTERIOR DRY SPRINKLER PIPING: PIPING 2" AND SMALLER - WELDED AND SEAMLESS HOT-DIPPED GALVANIZED CARBON STEEL PIPE, SCHEDULE 40, ASTM A 53, FITTINGS SHALL BE THREADED GALVANIZED MALLEABLE IRON, 500 PSI, ANSI B16 .3; JOINTS SHALL BE THREADED. PIPING 2½" AND LARGER - WELDED AND SEAMLESS HOT-DIPPED GALVANIZED CARBON STEEL PIPE, SCHEDULE 40, ASTM A 53; FITTINGS SHALL BE GROOVED TYPE HOT-DIPPED GALVANIZED MALLEABLE IRON, 500 PSI RATING, ASTM A 47, LISTED BY UL AND/OR FM; JOINTS SHALL BE CUT GROOVED TYPE.
2. COMPRESSED AIR PIPE AND FITTINGS: PIPING SHALL BE WELDED AND SEAMLESS BLACK CARBON STEEL PIPE, SCHEDULE 40, ASTM A 53; FITTINGS SHALL BE THREADED BLACK CAST IRON, 125 PSI, ANSI B16.4; JOINTS SHALL BE MADE BY THREADING.
3. FLANGES: WHERE INDICATED ON THE DRAWINGS OR REQUIRED BY PRODUCTS HEREINAFTER SPECIFIED, FLANGES SHALL BE INSTALLED. FLANGES SHALL BE CARBON STEEL, ASTM A 181, GRADE 1, 150 PSI, ANSI B16.5. WHEN INSTALLED ON PIPING REQUIRED TO BE GALVANIZED, FLANGES SHALL ALSO BE GALVANIZED.
4. FLANGED FITTINGS: WHERE INDICATED ON THE DRAWINGS OR REQUIRED BY PRODUCTS HEREINAFTER SPECIFIED, FLANGED FITTINGS SHALL BE INSTALLED. FITTING SHALL BE BLACK CAST IRON, SHORT BODY, CLASS 250, ANSI A21.10; TAR COATED OUTSIDE, CEMENT MORTAR LINED INSIDE, ANSI A21.4. WHEN INSTALLED ON PIPING REQUIRED TO BE GALVANIZED, FITTINGS SHALL ALSO BE GALVANIZED.
5. JOINTS, FLANGED JOINTS SHALL BE IN ACCORDANCE WITH ANSI B16.1. GASKETS SHALL BE FULL FACE OF 1/8" MINIMUM THICKNESS RED RUBBER. FLANGE BOLTS INSIDE BUILDING SHALL BE HEXAGON HEAD MACHINE BOLTS WITH HEAVY HEXAGON NUTS, CADMIUM PLATED, IN ACCORDANCE WITH ANSI B18.2. BOLTS, WASHERS, AND NUTS INSTALLED OUTSIDE OF BUILDINGS SHALL BE STAINLESS STEEL. GROOVED JOINTS SHALL BE UL LISTED AND FM APPROVED. GASKET MATERIAL SHALL BE BUTYL RUBBER. COUPLING SHALL BE SECURED USING TRACK HEAD CADMIUM PLATED BOLTS AND NUTS. GROOVES SHALL BE CUT OR ROLLED TYPE FOR SCHEDULE 40 PIPE. BOLTS, WASHERS, AND NUTS INSTALLED OUTSIDE OF BUILDINGS SHALL BE STAINLESS STEEL. WELDED JOINTS SHALL BE IN ACCORDANCE WITH ANSI B31.1.0, ANSI B31.1.0A, AND ANSI B31.1.0B. SCREWED JOINTS SHALL BE IN ACCORDANCE WITH ANSI B2.1.
6. VALVES, VALVES ABOVE GRADE: GATE VALVES 2½" AND SMALLER - BRONZE BODY SOLID WEDGE ASTM B 62, RISING STEM, OUTSIDE SCREW AND YOKE (OS&Y); 175 PSI RATED; MALLEABLE IRON HANDWHEEL; FEMALE THREADED ENDS. GATE VALVES 3" AND LARGER - IRON BODY, ASTM A 126; SOLID BRONZE WEDGE, ASTM B 62; RISING STEM, OUTSIDE SCREW AND YOKE (OS & Y); 175 PSI RATED; MALLEABLE IRON HANDWHEEL; GROOVED ENDS OR FLANGED ENDS FOR ANSI 150 PSI FLANGES. BUTTERFLY VALVES 2 ½" AND LARGER - IRON BODY WITH EDPM MOLDED RUBBER DISK, 175 PSI RATED; GROOVED ENDS; WHEEL HANDLE OPERATOR; VALVE POSITION INDICATOR; BUILT-IN SPDT SUPERVISORY SWITCH. CHECK VALVES 2½" AND SMALLER - IRON BODY SWING CHECK, ASTM A 126; BRONZE MOUNTED, ASTM B 62; 175 PSI RATED; BOLTED CAP, SCREWED ENDS. CHECK VALVES 3" AND LARGER - IRON BODY SWING CHECK, ASTM A 126; BRONZE MOUNTED, ASTM B 62; 175 PSI RATED; BOLTED CAP, GROOVED ENDS OR FLANGED ENDS FOR ANSI 150 PSI FLANGES. VALVES USED IN THE FIRE PROTECTION SYSTEM SHALL BE UL AND/OR FM LISTED.
7. FIRE DEPARTMENT CONNECTION, FIRE DEPARTMENT CONNECTION HOSE INLETS SHALL BE BRASS FEMALE HAVING INDIVIDUAL CLAPPER VALVES, 2½" DOUBLE FEMALE SNOOTS WITH RIGID END NPT X PIN LUG HOSE THREAD SWIVELS, WITH CHROME PLATED BRASS CAPS AND CHAINS. BODY SHALL BE ANGLE OR STRAIGHT TYPE AS REQUIRED BY JOB CONDITIONS. INLET THREADS SHALL BE 7½ NST THREADS PER INCH. NAMEPLATES SHALL BE CHROME PLATED BRASS AND LETTERED AUTO-SPKR.
8. FIRE DEPARTMENT CONNECTION SHALL BE Y-TYPE, CHROMIUM PLATED 2-WAY TYPE 2½" X 2½" X 4" SIZE WITH CAST BRASS BODY AND ESCUTCHEON
9. RISER CHECK VALVE, THE RISER CHECK VALVE SHALL BE A CONTROL CHECK VALVE WHICH PROVIDES FOR THE PROPER FUNCTIONING IN A WET PIPE SPRINKLER SYSTEM RISER. IT SHALL BE COMPLETE WITH THE FOLLOWING FEATURES: BODY SHALL BE CAST IRON WITH A STAINLESS STEEL CLAPPER ASSEMBLY; TAPPINGS FOR PRESSURE GAUGES AND DRAINS; TWO PRESSURE GAUGES AND ANGLE DRAIN VALVE; ELASTOMER SEAL-FACING ON SPRING-LOADED CLAPPER; AND VALVE SHALL HAVE GROOVED ENDS.
10. ALARM VALVES, DRY PIPE VALVE - THE DRY PIPE VALVE SHALL BE A CONTROL CHECK VALVE THAT SEPARATES THE SYSTEM WATER SUPPLY FROM THE AIR FILLED SYSTEM PIPING USING THE DIFFERENTIAL PRESSURE PRINCIPLE. THE VALVE SHALL ALSO BE CAPABLE OF OPERATING AN ELECTRIC PRESSURE SWITCH ALARM. IT SHALL BE COMPLETE WITH THE FOLLOWING FEATURES: REPLACEABLE BRASS TO NEOPRENE AIR SEAT; NEOPRENE-TO-BRASS OR BRASS-TO-BRASS WATER SEAT; SPRING LOADED CLAPPER; ADDITIONAL ACCESSORIES REQUIRED FOR PROPER OPERATION, VALVE TRIM, WATER AND AIR GAUGES, ACCELERATOR, ANTI-FLOOD DEVICE, AIR PRESSURE MAINTENANCE DEVICE AND PRESSURE SWITCHES; AND VALVE SHALL HAVE FLANGED, GROOVED OR FLANGED/GROOVED COMBINATION CONNECTION.
11. AIR COMPRESSOR (RISER MOUNTED), THE AIR COMPRESSOR SHALL BE AN ELECTRIC MOTOR-DRIVEN, AIR COOLED, SINGLE-STAGE, OIL-LESS COMPRESSOR WITH CHECK VALVE, CENTRIFUGAL PRESSURE AND MOISTURE UNLOADER AND PRESSURE SWITCH. COMPRESSOR SHALL HAVE A RATED CAPACITY OF 2.7 CFM AT 35 PSI CONTINUOUS AND 50 PSI INTERMITTENT PRESSURE; 1725 RPM; 115V; 1 HP MAX, SINGLE PHASE; SAFETY RELIEF VALVE SET AT 75 PSI; WITH RISER MOUNTING BRACKET.
12. PRE - ACTION VALVE PACKAGE, PROVIDE A COMPLETELY SELF-CONTAINED, SUPERVISED PRE-ACTION SYSTEM WITH BATTERY BACK-UP SIMILAR TO RELIABLE PREPAK OR APPROVED EQUAL. INSTALLATION SHALL REQUIRE THREE PIPING CONNECTIONS, SUPPLY, SYSTEM, AND DRAIN. TWO 120VAC ELECTRICAL SUPPLY CONNECTIONS AND A LOW VOLTAGE RELEASING CONNECTION. VERIFY WIRING CONNECTIONS, PROGRAM THE PANEL AND CERTIFY THE OPERATION OF THE SYSTEM. THE SYSTEM ENCLOSURE SHALL CONTAIN THE FOLLOWING COMPONENTS - DELUGE RISER ASSEMBLY, PRESSURE MAINTENANCE DEVICE, CHECK VALVE WITH PRE-ACTION TRIM KIT, 1/6 HP TANK MOUNTED AIR COMPRESSOR WITH 2 GALLON TANK, AND FIRE/ALARM RELEASING PANEL. THE FIRE/ALARM RELEASING PANEL SHALL BE A FULLY PROGRAMMABLE, MICROPROCESSOR BASED TYPE. U.L. LISTED AND IN COMPLIANCE WITH NFPA 13 AND 72. PROVIDE CROSS-ZONED HEAT/SMOKE DETECTORS, AS HEREINAFTER SPECIFIED, TO ACHIEVE DOUBLE INTERLOCK SYSTEM ACTIVATION.
13. ELECTRIC ALARM BELL, BELL SHALL BE 8" SIZE SUITABLE FOR FIRE ALARM SERVICE. BELL SHALL BE VIBRATING TYPE WITH RED FINISH SUITABLE FOR OUTDOOR USE. BELL VOLTAGE SHALL BE 115V, PROVIDE WEATHERPROOF BACKBOX FOR OUTDOOR USE. BELL SHALL BE UL LISTED AND FM APPROVED. MINIMUM DB RATING AT 10 FEET FOR 8"-24VDC BELL SHALL BE 79
14. INSPECTOR'S TEST AND DRAIN, VALVE SHALL BE BALL TYPE, BRONZE BODY, 300 PSI RATED; GLASS IMPREGNATED TEFLON SEAT; SCREWED ENDS, WITH SIGHT GLASS; PRESSURE GAUGE; BYPASS PIPING AND RELIEF VALVE IF REQUIRED. ACCEPTABLE MANUFACTURERS: AFG MANUFACTURING CO., OR APPROVED EQUAL.
15. SWITCHES
   - A. FLOW SWITCHES - FLOW SWITCHES SHALL BE INSTALLED IN THE SPRINKLER SYSTEM WHERE INDICATED ON THE DRAWINGS. SWITCHES SHALL BE DESIGNED FOR HORIZONTAL OR VERTICAL INSTALLATION AND SHALL NOT BE INSTALLED WITHIN 12" OF ANY FITTING THAT CHANGES THE DIRECTION OF FLOW. SWITCHES SHALL BE LISTED BY UL AND/OR FM. SWITCH SHALL BE ACTUATED BY A POLYETHYLENE VANE EXTENDED INTO THE WATERWAY OF THE PIPE AND SHALL OPERATE AN AUTOMATIC RECYCLING PNEUMATIC RETARD ELEMENT. RETARD ELEMENT SHALL HAVE AN ADJUSTABLE RANGE OF 0 TO 60 SECONDS. SENSITIVITY SETTING OF SWITCH TO SIGNAL FLOW OF WATER THAT EQUALS OR EXCEEDS THE DISCHARGE FROM ONE SPRINKLER HEAD. SWITCH SHALL HAVE TWO SPDT AUXILIARY CONTACTS. SWITCH SHALL BE ATTACHED TO PIPE BY SECURING THE BASE PLATE TO THE PIPE WITH A U-BOLT CLAMP. COVER OF SWITCH SHALL BE IMPACT RESISTANT AND SHALL HAVE ½" CONDUIT HOLE FOR WIRING CONNECTION TO THE FIRE ALARM SYSTEM. ACCEPTABLE MANUFACTURERS: ADT, GRINNELL, NOTIFIER SERIES WFD, OR APPROVED EQUAL.
   - B. PRESSURE SWITCHES - PRESSURE SWITCH SHALL BE INSTALLED ON THE DRY PIPE SYSTEM ACCELERATOR. SWITCH SHALL CONTAIN TWO SINGLE POLE DOUBLE THROW, NORMALLY CLOSED, SNAP-ACTION TYPE SWITCHES. SWITCHES SHALL BE UL LISTED AND/OR FM APPROVED. HOUSING SHALL BE METAL, WATERTIGHT, NEMA 4 CONSTRUCTION. CONNECTION TO THE SPRINKLER SYSTEM SHALL BE ½" NPT MALE, CONNECTION TO THE ALARM SYSTEM SHALL BE A 7/8" O.D. KNOCKOUT. SWITCH SHALL BE ACTIVATED BY A 3 PSI (± 2 PSI) DROP IN SYSTEM PRESSURE. SWITCH SHALL BE RATED AT 300 PSI WITH AN ADJUSTABLE RANGE OF 2 TO 20 PSI. A SAFETY STOP SHALL BE PROVIDED AT 20 PSI TO PREVENT SETTING SWITCH PRESSURE ABOVE WATER MAIN PRESSURE. ACCEPTABLE MANUFACTURERS: ADT, NOTIFIER, POTTER ELECTRIC, VIKING, OR APPROVED EQUAL.
   - C. SUPERVISORY SWITCH FOR GATE VALVES - SWITCHES SHALL BE INSTALLED ON EACH VALVE DESIGNATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. SWITCH SHALL BE MOUNTED SO AS NOT TO INTERFERE WITH THE NORMAL OPERATION OF THE VALVE AND SHALL BE ADJUSTED TO ACTIVATE WITHIN TWO REVOLUTIONS OF THE VALVE CONTROL OR WHEN THE STEM HAS MOVED NO MORE THAN ONE-FIFTH THE DISTANCE FROM ITS NORMALLY OPEN POSITION. SWITCHES SHALL BE UL LISTED AND/OR FM APPROVED. THE MECHANISM SHALL BE CONTAINED IN A WEATHERPROOF HOUSING, WITH A 1" TAPPED CONDUIT ENTRANCE AND INCORPORATE THE NECESSARY FACILITIES FOR ATTACHMENT TO THE VALVE. THE SWITCH MECHANISM SHALL HAVE TWO SPDT CONTACTS AND SHALL BE RATED AT 5 AMPS AT 125 VAC OR 0.25 AMPS AT 125 VDC. REMOVAL OF THE INSTALLED ASSEMBLY SHALL CAUSE THE SWITCH TO ACTIVATE. SWITCH SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. ACCEPTABLE MANUFACTURERS: ADT, GRINNELL, NOTIFIER #SGV, POTTER ELECTRIC, OR APPROVED EQUAL.
16. PRESSURE GAUGES, GAUGES SHALL HAVE A 3½" DIAL DIAMETER WITH CAST ALUMINUM FLANGE LESS CASE, PHOSPHOR BRONZE BOURDON TUBE, STAINLESS STEEL MOVEMENT AND DELRIN GEARS. ACCURACY SHALL BE ½ OF 1 PERCENT OF THE SCALE RANGE. GAUGE SHALL HAVE A ¼" NPT FORGED BRASS SOCKET AND TIP. GAUGE SCALE SHALL BE FROM 0 TO 150 PSI. ACCEPTABLE MANUFACTURERS: MARSHALTOWN MODEL 175P, WEKSLER, U.S. GAGE, OR APPROVED EQUAL.
17. SPRINKLER HEADS, HEADS INSTALLED IN AREAS WITHOUT CEILINGS OR IN SPACES ABOVE SUSPENDED CEILINGS SHALL BE UPRIGHT TYPE WITH BRONZE FINISH. LIGHT HAZARD HEADS SHALL BE QUICK RESPONSE TYPE. HEADS INSTALLED IN AREAS WITH SMOOTH SUSPENDED CEILINGS SHALL BE ONE OR MORE OF THE PENDANT TYPE. COVER PLATES FOR FLUSH HEADS SHALL HAVE WHITE FINISH UNLESS OTHERWISE NOTED. OTHER TYPES OF HEADS EXPOSED TO VIEW SHALL BE CHROMIUM PLATED WITH MATCHING ESCUTCHEONS.
    HEADS SHALL BE RATED AT 165, 212, AND/OR 286 DEGREES FAHRENHEIT AS REQUIRED TO SUIT THE HAZARD PROTECTION. CONNECTIONS SHALL BE ½ OR ¾ INCH, MALE THREADS, ANSI B2.1, WITH ½ AND/OR 17/32 INCH ORIFICE. HEADS SHALL BE TESTED AND LISTED BY UL AND/OR FM. SPRINKLERS SHALL BE THE PRODUCT OF THE MANUFACTURER REPRESENTED BY THE SUCCESSFUL SPRINKLER CONTRACTOR. SPRINKLER HEADS INSTALLED WHERE THEY MAY BE EXPOSED OR SUBJECT TO MECHANICAL DAMAGE SHALL BE PROVIDED COMPLETE WITH HEAD GUARDS.
18. SPARE HEAD BOX, PROVIDE IN A CONSPICUOUS PLACE NEAR THE MAIN RISER VALVE OR FIRE PUMP, AN ENAMELED STEEL BOX HOUSING 12 SPARE HEADS AND A SPRINKLER WRENCH. STYLE AND RATING OF HEADS SHALL BE IN PROPORTION TO THE STYLE AND RATINGS OF THE HEADS INSTALLED. BOX SHALL BE LABELED “SPARE SPRINKLER HEADS”
19. ELECTRICAL WORK, MATERIALS SHALL BE NEW AND SHALL BE UNDERWRITERS LABORATORIES LABELED OR LISTED. WIRING SHALL BE CONTAINED IN METALLIC RACEWAYS. RACEWAYS SHALL MEET THE REQUIREMENTS OF DIVISION 16 - ELECTRICAL. WIRING FOR 115 VOLTS AND HIGHER SHALL BE COPPER #12 AWG OR LARGER. WIRING TYPE, INSULATION, ETC. SHALL MEET THE REQUIREMENTS OF DIVISION 16 - ELECTRICAL. WIRING LESS THAN 115 VOLTS SHALL BE COPPER. WIRE SIZE, TYPE AND INSULATION SHALL BE SELECTED TO SUIT THE APPLICATION.

EXECUTION

1. TESTS AND ACCEPTANCE, THE FIRE PROTECTION SYSTEM SHALL BE TESTED UNDER HYDROSTATIC PRESSURE NOT EXCEEDING 200 PSI FOR A DURATION OF NOT LESS THAN TWO HOURS. PIPING INSTALLED ABOVE EXISTING CEILINGS SHALL BE TESTED WITH COMPRESSED AIR FOR TWO HOURS AT 200 PSI. PIPING SUBJECTED TO THE HYDROSTATIC TEST SHALL BE FILLED WITH WATER AND THOROUGHLY CHECKED FOR THE ELIMINATION OF AIR. JOINTS SHALL BE PROVEN TIGHT BY THE TEST. DEFECTIVE WORK OR MATERIALS SHALL BE CORRECTED OR REPLACED IN AN APPROVED MANNER. IF NECESSARY, PIPING SHALL BE DISMANTLED AND REASSEMBLED WITH THE USE OF NEW PIPE OR FITTINGS. NO CAULKING OR MAKESHIFT METHOD OF TEMPORARY REPAIR OF DEFECTIVE WORK WILL BE PERMITTED. TESTS SHALL BE REPEATED UNTIL THE PARTICULAR LINE OR SYSTEM RECEIVES THE APPROVAL OF THE REPRESENTATIVE OF THE ARCHITECT/ENGINEER. FINAL ACCEPTANCE OF THE FIRE PROTECTION WORK WILL NOT BE GRANTED UNTIL THE SYSTEM IS INSPECTED AND ACCEPTED BY A REPRESENTATIVE OF THE STATE FIRE MARSHAL.
2. WATER DAMAGE, DAMAGE TO THE WORK AND MATERIALS OF OTHERS, TO THE BUILDING, AND PROPERTY CAUSED BY LEAKS IN THE FIRE PROTECTION SYSTEM DURING THE INSTALLATION AND/OR TESTING OF THE FIRE PROTECTION SYSTEM SHALL BE THE RESPONSIBILITY OF THIS SECTION OF THE SPECIFICATION. THE FIRE PROTECTION CONTRACTOR SHALL PAY FOR THE REPLACEMENT OR REPAIR OF ANY WORK OR ITEMS SO DAMAGED.
3. SPRINKLER HEADS, SPRINKLER HEADS SHALL BE PROVIDED TO PROVIDE COMPLETE BUILDING COVERAGE PER NFPA 13. WHEN INSTALLED IN ACOUSTICAL TILE CEILINGS, SPRINKLER HEADS SHALL BE LOCATED AS FOLLOWS:, 2' X 2' CEILING TILES - HEAD SHALL BE CENTERED IN THE TILE. 2' X 4' CEILING TILES - HEAD SHALL BE CENTERED ON THE 2'–0" DIMENSION AND LOCATED 1'–0" FROM EITHER END OF THE TILE, OR CENTERED IN THE 4'–0" DIMENSION.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE LOCATION OF CEILING MOUNTED DEVICES. SHOULD THE PROJECT REQUIRE ADDITIONAL HEADS, THE LOCATION OF THESE ADDITIONAL HEADS SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. PENDANT, RECESSED AND FLUSH STYLE HEADS SHALL HAVE THE ESCUTCHEON OR COVER PLATE INSTALLED TIGHT TO THE CEILING AND SHALL COMPLETELY COVER THE OPENING PROVIDED FOR THE HEAD.
5. HYDRAULIC CALCULATIONS, THE HYDRAULIC CALCULATIONS SHALL BE BASED ON THE FIRE PROTECTION SYSTEM DESCRIBED IN PARAGRAPH 1.1.A SCOPE. PREPARE HYDRAULIC CALCULATIONS FOR THE DESIGN OF THE SYSTEM AND SUBMIT THEM TO THE ARCHITECT/ENGINEER FOR REVIEW. HYDRAULIC CALCULATIONS SHALL BE PREPARED IN ACCORDANCE WITH NFPA 13 FORMATS. PRIOR TO DESIGNING THE SYSTEM, CONDUCT A FLOW TEST TO DETERMINE THE CURRENT GPM, STATIC AND RESIDUAL PRESSURES AVAILABLE IN THE PUBLIC WATER MAINS AT THE SITE. THE DESIGNER SHALL ALLOW A **15 PSI RESIDUAL PRESSURE SAFETY FACTOR** IN COMPILING THE HYDRAULIC CALCULATIONS.
6. SPRINKLER SYSTEMS, THE SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED AND DESIGNED AS FOLLOWS:
7. WET PIPE SYSTEMS:
   - A. LIGHT HAZARD AREAS SHALL BE CALCULATED FOR 0.10 GPM/SF OVER THE MOST REMOTE 1500 SF WITH A COMBINED HOSE ALLOWANCE OF 100 GPM. ENCLOSED CONCEALED SPACES CONTAIN COMBUSTIBLE MATERIAL SHALL BE CALCULATED FOR THE MOST REMOTE 3000 SF.
   - B. ORDINARY HAZARD, GROUP 1 AREAS SHALL BE CALCULATED FOR 0.15 GPM/SF OVER THE MOST REMOTE 1500 SF WITH A COMBINED HOSE ALLOWANCE OF 250 GPM. ENCLOSED CONCEALED SPACES CONTAINING COMBUSTIBLE MATERIAL SHALL BE CALCULATED FOR THE MOST REMOTE 3000 SF.
   - C. ORDINARY HAZARD, GROUP 2 AREAS SHALL BE CALCULATED FOR 0.20 GPM/SF OVER THE MOST REMOTE 1500 SF WITH A COMBINED HOSE ALLOWANCE OF 250 GPM.
   - D. EXTRA HAZARD, GROUP 1 AREAS SHALL BE CALCULATED FOR 0.30 GPM/SF OVER THE MOST REMOTE 2500 SF WITH A COMBINED HOSE ALLOWANCE OF 500 GPM.
   - E. EXTRA HAZARD, GROUP 2 AREAS SHALL BE CALCULATED FOR 0.40 GPM/SF OVER THE MOST REMOTE 2500 SF WITH A COMBINED HOSE ALLOWANCE OF 500 GPM.
8. DRY PIPE SYSTEMS - DRY PIPE SYSTEMS SHALL BE CALCULATED FOR THE SAME DENSITY LISTED FOR THE HAZARD ABOVE, BUT WITH A 30% INCREASE IN THE REMOTE SQUARE FOOT AREA.
9. PIPE SUPPORTS, PIPING SHALL BE SUPPORTED BY MEANS OF HANGERS TESTED AND LISTED BY UL AND/OR FM. SIZING, SPACING AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13 AND 14. BOLTS AND THREADED RODS SHALL HAVE DOUBLE NUTS AND WASHERS OR SINGLE NUT, WASHER AND LOCK WASHER. STARTING LENGTH, END LENGTH, AND ALTERNATE LENGTHS OF MAIN PIPING WITH GROOVED JOINT COUPLINGS SHALL BE PROVIDED WITH TWO SUPPORTS.
10. FLUSHING, BEFORE FILLING THE INTERIOR FIRE PROTECTION SYSTEM WITH WATER AND BEFORE CONNECTIONS ARE MADE TO THE AUTOMATIC SPRINKLER RISERS, EACH PART OF THE UNDERGROUND SYSTEM SHALL BE THOROUGHLY FLUSHED UNTIL THE WATER RUNS CLEAR. MINIMUM FLOW DURING FLUSHING SHALL BE AS FOLLOWS:

PIPE SIZE	FLOW, GPM
3"	300
4"	400
6"	750

11. BEFORE PERFORMING PRESSURE TESTS, THE INTERIOR MAINS SHALL BE THOROUGHLY FLUSHED BY FLOWING WATER THROUGH EACH OF THE MAINS FOR FIVE MINUTES. PROVIDE TEMPORARY PIPING OR HOSES AS REQUIRED.
12. SPRINKLER SYSTEM OPERATION, DRY PIPE SYSTEM: WHEN THE AIR PRESSURE IN THE PIPING SYSTEM HAS DROPPED (FROM THE FUSING OF A SPRINKLER HEAD) TO THE TRIPPING POINT OF THE VALVE, THE FLOATING VALVE MEMBER ASSEMBLY IS RAISED BY THE WATER PRESSURE TRAPPED UNDER THE CLAPPER. WATER THEN FLOWS INTO THE INTERMEDIATE CHAMBER, DESTROYING THE VALVE DIFFERENTIAL. AS THE MEMBER ASSEMBLY RISES THE CLAPPER IS UNLATCHED.
13. GAUGE INSTALLATION, GAUGE SHALL BE INSTALLED AT THE INLET AND OUTLET OF EACH SPRINKLER SYSTEM ALARM OR CHECK VALVE. GAUGES SHALL BE LOCATED IN A SUITABLE PLACE WHICH IS PROTECTED FROM FREEZING. PROVIDE A GAUGE COCK AT EACH GAUGE AND MAKE PROVISIONS FOR DRAINING.
14. ELECTRICAL WORK, FIRE PROTECTION EQUIPMENT, CONTROLS AND ALARM PANELS SHALL BE SUPPLIED FROM AN EMERGENCY POWER SOURCE, IF AVAILABLE. CONTROL OR SIGNALING WIRING SHALL NOT BE INSTALLED IN RACEWAYS WITH POWER UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS. WIRING AND RACEWAYS FOR LINE VOLTAGE INTERLOCKING SHALL BE WORK OF THIS SECTION. VOLTAGE SHALL BE 115 VOLTS, 1-PHASE, 60 HERTZ. PROVIDE TRANSFORMER WHERE REQUIRED. CONTROL AND SIGNALING WIRING AND RACEWAYS BETWEEN EQUIPMENT SPECIFIED UNDER THIS SECTION SHALL BE WORK OF THIS SECTION. SIGNALING WIRING AND RACEWAYS ASSOCIATED WITH WORK OF THIS SECTION AND NOT SPECIFIED AS WORK OF DIVISION 16 - ELECTRICAL SHALL BE WORK OF THIS SECTION. A SOURCE OF POWER MAY BE INDICATED UNDER DIVISION 16 - ELECTRICAL, FOR ACTIVATING CONTROL DEVICES WHERE POWER FOR CONTROLS DOES NOT ORIGINATE AT THE CONTROL TRANSFORMER FURNISHED WITH THE STARTER OR CONTROL PANEL. WORK OF THIS SECTION SHALL INCLUDE WIRING REQUIRED FOR CONTROLS FROM THIS SOURCE. IF ADDITIONAL 120 VOLT POWER IS REQUIRED IT SHALL BE OBTAINED FROM SPARE BREAKERS AT A LOCATION APPROVED BY THE ARCHITECT. THE COST OF INSTALLATION OF RACEWAYS, WIRING, ETC. SHALL BE INCLUDED AS WORK OF THIS DIVISION. THE CONTRACTOR SHALL REVIEW ELECTRICAL DRAWINGS PRIOR TO BIDDING.

GVA ENGINEERING, L.L.C.
PROJECT No. 4476

ADAMICK
ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date

02 APR. 2025	**CD-100**
28 FEB. 2025	**CD-99**
17 JAN. 2025	**CD-85**
31 OCT. 2024	**SD-1**
07 OCT. 2024	**EC-1**

Project: #2024-23

JOE BROWN PARK CAROUSEL
ENCLOSURE

ADDRESS:
5601 READ BLVD. NEW ORLEANS, LA 70127

MECHANICAL SPECIFICATIONS

DAVID C. CODE
License No. 24061
04-01-25

DATE: 4/9/2025 3:57:34 PM
PROJECT NO.: 2024-23
DRAWING BY: FJS
CHECKED BY: DCC
SHEET NO.: M-4
CAD FILE NO: 2024-23\PDF OUT\EC
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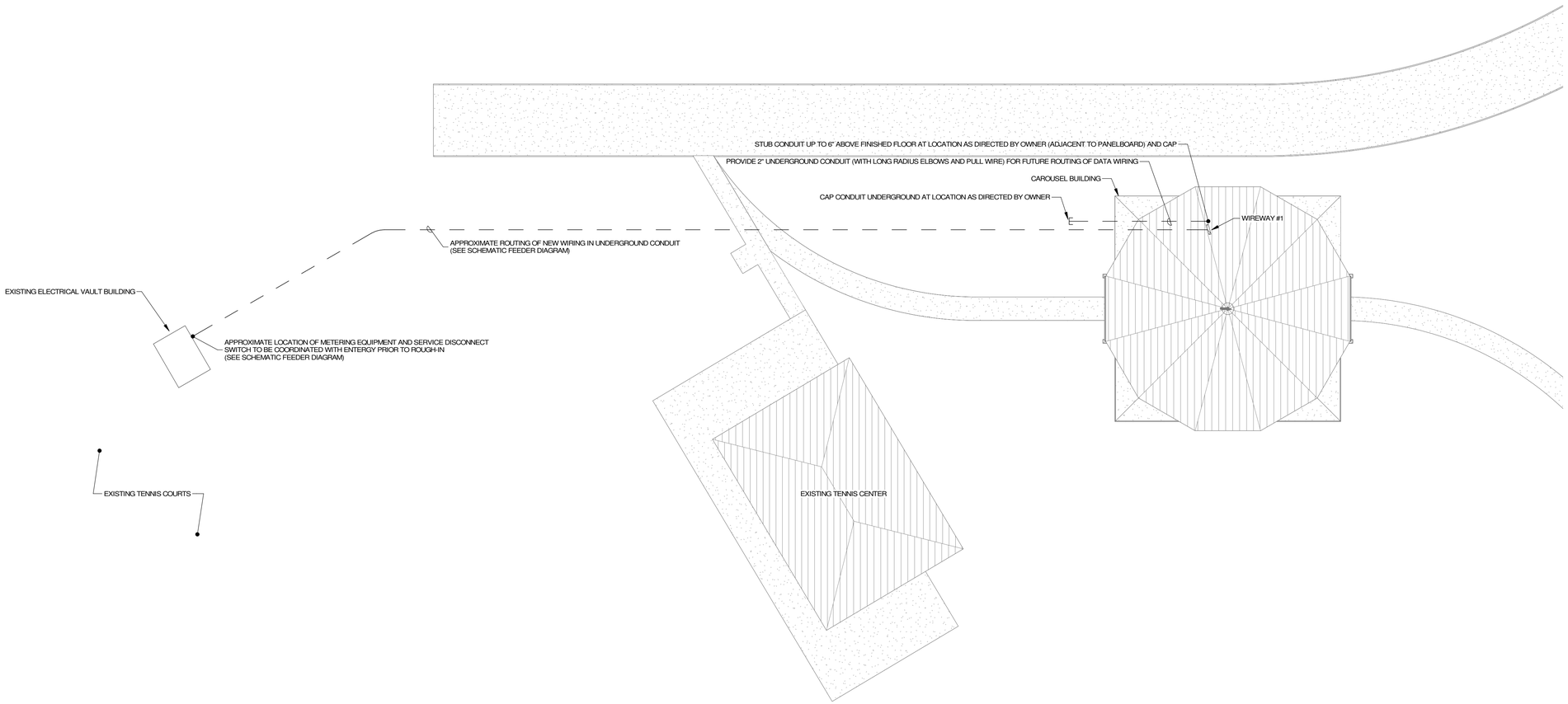

SITE PLAN -ELECTRICAL

SCALE: 1" = 20'-0"

NOTES:

1. PROVIDE TWO (2) FIRE ALARM VALVE SUPERVISORY SWITCHES AT THE BACKFLOW PREVENTER AND PROVIDE WIRING IN UNDERGROUND CONDUIT TO CONNECT TO FIRE ALARM SYSTEM. COORDINATE LOCATION AND INSTALLATION WITH WORK OF OTHER TRADES.

2. MUCH OF THE EXISTING UNDERGROUND UTILITIES (PLUMBING, DRAINAGE, ELECTRICAL, ETC.) IS UNKNOWN WITH REGARDS TO ROUTINGS, ETC. CONTRACTOR SHALL USE PHYSICAL PROBING, ELECTRONIC TRACING, HAND DIG, ETC. TO EXPOSE EXISTING UNDERGROUND MECHANICAL, ELECTRICAL, AND PLUMBING UTILITIES AND ADJUST CONSTRUCTION TO SUIT. ANY PROPOSED DEVIATIONS FROM THE CONSTRUCTION DRAWINGS SHALL BE REVIEWED BY THE DESIGN TEAM PRIOR TO INSTALLATION.

THESE PLANS HAVE BEEN PREPARED UNDER MY CLOSE PERSONAL SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH CITY PARISH REQUIREMENTS. I AM NOT GENERALLY ADMINISTERING THE WORK, BUT NOT TO THE EXTENT THAT WILL ELIMINATE THE NEED FOR CITY PARISH INSPECTIONS.

Jonathan R. Bernard

GVA ENGINEERING, L.L.C.
PROJECT No. 4476

ADAMICK ARCHITECTURE
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SITE PLAN - ELECTRICAL

STATE OF LOUISIANA
JONATHAN R. BERNARD
License No. 32814
PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
04-01-25

DATE:	4/9/2025 3:57:24 PM
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SHEET NO.:	E-1
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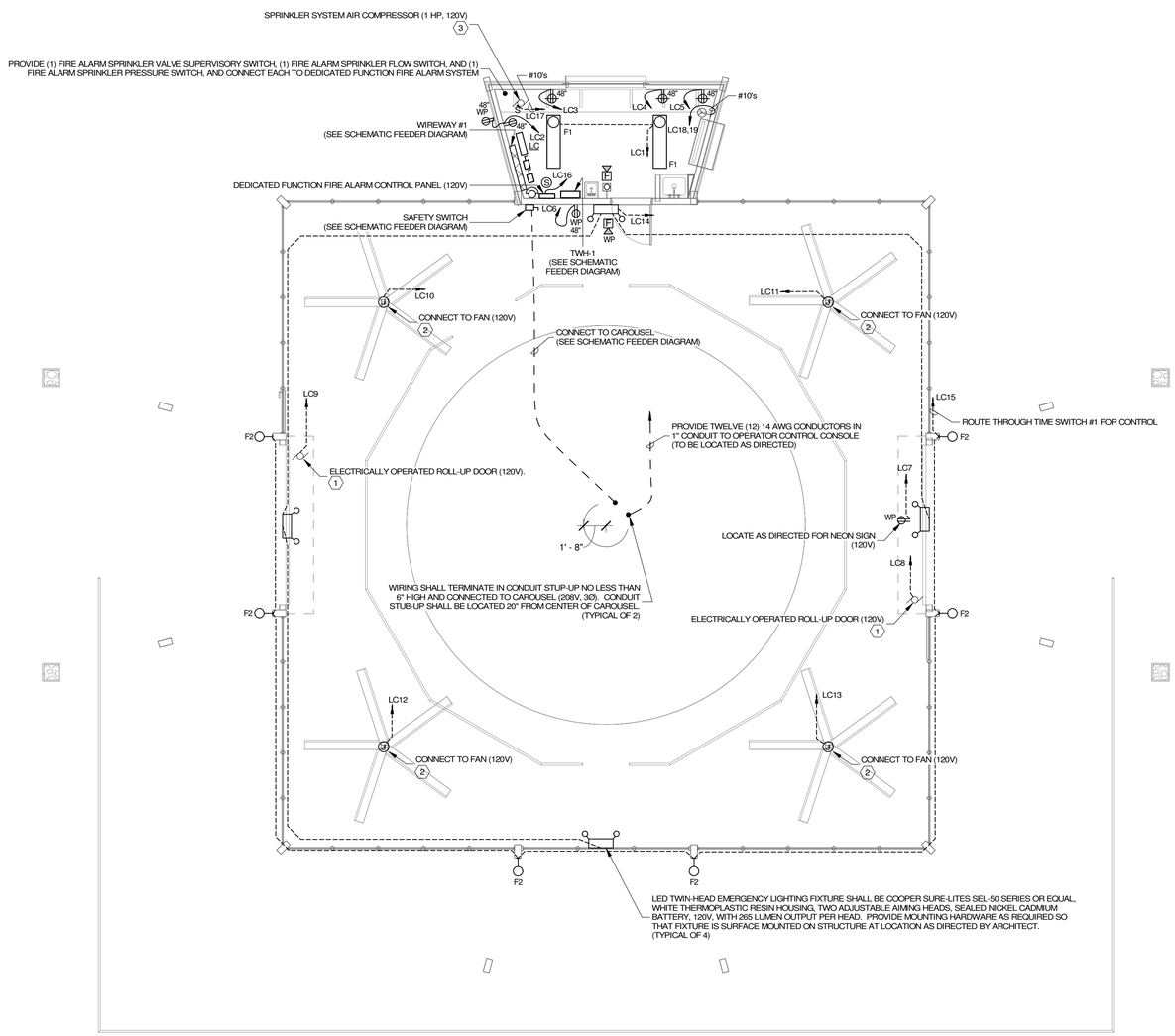
SPECIFIC NOTES

1. INSTALL A 20A/1P WALL SWITCH IN SURFACE-MOUNTED OUTLET BOX ADJACENT TO ROLL-UP DOOR MOTOR (1/2 HP, 120V) AND ROUTE CIRCUIT FROM MOTOR, THROUGH SWITCH, AND CONNECT AS INDICATED.

   INSTALL ROLL-UP DOOR CONTROLLER AT LOCATION AS DIRECTED AND PROVIDE WIRING IN RACEWAY TO INTERCONNECT ROLL-UP DOOR MOTOR AND ROLL-UP DOOR CONTROLLER FOR PROPER OPERATION. IN ADDITION, PROVIDE WIRING IN RACEWAY TO INTERCONNECT ALL OTHER ACCESSORIES TO BE FURNISHED WITH ROLL-UP DOOR, INCLUDING SENSOR SWITCHES, THRU-BEAM PHOTOCELLS, ETC.

2. INSTALL FAN CONTROLLER AT LOCATION AS DIRECTED AND PROVIDE WIRING IN RACEWAY TO INTERCONNECT FAN AND FAN CONTROLLER FOR PROPER OPERATION.

3. PROVIDE A 30A/1P SWITCH IN SURFACE MOUNTED OUTLET BOX ADJACENT TO AIR COMPRESSOR AND ROUTE CIRCUIT FROM AIR COMPRESSOR, THROUGH SWITCH, AND CONNECT AS INDICATED.



FIRST FLOOR - ELECTRICAL

SCALE: 3/16" = 1'-0"

NOTES:

1. PROVIDE A FIRE ALARM CONTROL MODULE FOR EACH OF THE (4) FANS SO THAT EACH FAN IS DE-ENERGIZED UPON A FIRE ALARM CONDITION ("ALARM").
2. THE CIRCUIT INDICATED TO BE ASSOCIATED WITH THE FIRE ALARM CONTROL PANEL SHALL ALSO BE EXTENDED USING WIRING IN RACEWAY FOR THE SPRINKLER SYSTEM ALARM BELL.
3. PROVIDE A TIME SWITCH ADJACENT TO PANEL LC.
4. EXACT ROUTING OF WIRING IN EXPOSED CONDUIT THROUGHOUT CAROUSEL SPACE SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN. WIRING SHALL BE CONCEALED IN FLEXIBLE METAL CONDUIT WITHIN STRUCTURAL MEMBERS WHERE POSSIBLE.

GVA ENGINEERING, L.L.C.
PROJECT No. 4476

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3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
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Project: #2024-23

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ADDRESS:
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FIRST FLOOR PLAN - ELECTRICAL

STATE OF LOUISIANA
JONATHAN R. BERNARD
License No. 32814
PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
04-01-25

DATE:	4/9/2025 3:57:25 PM
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ADAMICK ARCHITECTURE
3301 CHIPPEWA STREET
NEW ORLEANS, LA 70115
504.322.1220

No.	Description	Date

Panel: LC

Type: 100A MCB
Location: CONCESSIONS 102 **Volts:** 120/240 Single
Enclosure: NEMA 1 **Phases:** 1
Mounting: Surface **Wires:** 3
Avail. A.I.C.: < 10 kA **A.I.C. Rating:** 10 kA

Notes:

CKT	Circuit Description	Trip	Poles
LC1	Lighting	20 A	1
LC2	Receptacle	20 A	1
LC3	Receptacle	20 A	1
LC4	Receptacle	20 A	1
LC5	Receptacle	20 A	1
LC6	Receptacle	20 A	1
LC7	Neon Sign	20 A	1
LC8	Roll-up Door	20 A	1
LC9	Roll-up Door	20 A	1
LC10	Fan	20 A	1
LC11	Fan	20 A	1
LC12	Fan	20 A	1
LC13	Fan	20 A	1
LC14	Emergency Lighting Fixtures	20 A	1
LC15	Lighting - Exterior	20 A	1
LC16	Fire Alarm Control Panel	20 A	1
LC17	Air Compressor	25 A	1
LC18	Receptacle for PTAC	20 A	2
LC19			
LC20	Spare	20 A	1
LC21	Spare	20 A	1
LC22	Spare	20 A	1
LC23	Spare	20 A	1
LC24	Space	--	1
LC25	Space	--	1
LC26	Space	--	1
LC27	Space	--	1
LC28	Space	--	1
LC29	Space	--	1
LC30	Space	--	1

NOTES:
1. PANEL SHALL BE SERVICE ENTRANCE RATED.
2. PROVIDE NAMEPLATE ADJACENT TO THE MAIN CIRCUIT BREAKER TO READ "BUILDING DISCONNECT SWITCH #3"

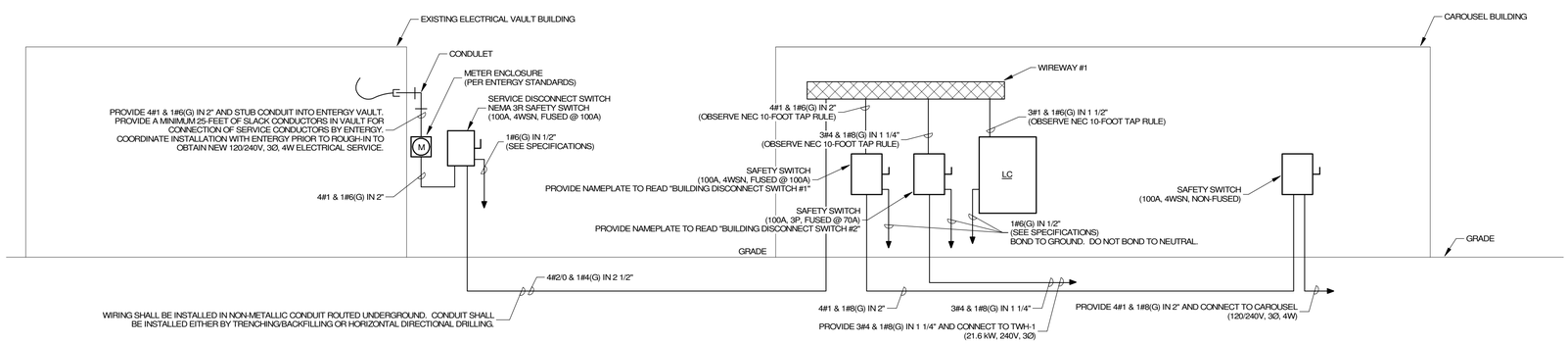
LIGHTING FIXTURE SCHEDULE

F1 COOPER METALUX 4VT3-5-W-UNV-835-CD1 SERIES OR EQUAL, SUSPENDED LED LIGHTING FIXTURE, 48" LONG REINFORCED FIBERGLASS HOUSING, HIGH IMPACT 50% DR HIGH ACRYLIC LENS WITH WIDE DISTRIBUTION, GASKETED, WET LOCATION LISTED, INTERGIRAL DRIVER, 120-277V, WITH 5,000 LUMEN OUTPUT (MINIMUM). FIXTURE SHALL BE SUSPENDED AT APPROXIMATELY 9'-0" ABOVE FINISHED FLOOR USING CONDUIT STEMS AND SWIVEL CANOPIES OVER JUNCTION BOXES.

F2 BRUCK EXT-6UD-30K-90-36-UNV-xx SERIES OR EQUAL, WALL-MOUNTED LED LIGHTING FIXTURE, EXTRUDED ALUMINUM 6" DIAMETER CYLINDER WITH FINISH AS DIRECTED BY ARCHITECT, UP/DOWN DISTRIBUTION, 36-DEGREE REFLECTOR, 3000K, WET LOCATION LISTED, 120-277V, WITH 1,900 LUMEN OUTPUT UP AND 1,900 LUMEN OUTPUT DOWN.

SYMBOL SCHEDULE

- LED FIXTURE, SUSPENDED OR SURFACE MOUNTED.
- LED FIXTURE, WALL MOUNTED.
- LED TWIN-HEAD EMERGENCY LIGHTING FIXTURE, SURFACE MOUNTED.
- WALL-MOUNTED AUTOMATIC LIGHTING SHUTOFF DEVICE (WITH INTEGRAL ON/OFF CONTROL).
- 20A/2P, 3-WIRE, 125V, GROUNDING TYPE DUPLEX RECEPTACLE, NEMA 5-20R, TAMPER RESISTANT.
- GFI SAME AS EXCEPT WITH GROUND FAULT INTERRUPTER.
- WP SAME AS GFI EXCEPT WEATHERPROOF.
- SINGLE NEMA 6-30R RECEPTACLE (30A, 250V, 2-POLE, 3-WIRE GROUNDING TYPE). CONFIRM THAT RECEPTACLE IS COMPATIBLE WITH PTAC UNIT TO BE CONNECTED PRIOR TO ROUGH-IN. EXACT LOCATION OF RECEPTACLE SHALL BE AS DIRECTED BY EQUIPMENT MANUFACTURER.
- JUNCTION BOX.
- SAFETY SWITCH.
- MOTOR.
- PANELBOARD.
- SMOKE DETECTOR, CEILING MOUNTED.
- FIRE ALARM PULL STATION, WALL MOUNTED.
- WP F — FIRE ALARM AUDIOVISUAL SIGNAL UNIT, WALL MOUNTED. "WP" SUBSCRIPT INDICATES WEATHERPROOF TYPE.
- MS — FIRE ALARM SPRINKLER VALVE SUPERVISORY SWITCH.
- FS — FIRE ALARM SPRINKLER FLOW SWITCH
- PS — FIRE ALARM SPRINKLER PRESSURE SWITCH.
- C — FIRE ALARM CONTROL MODULE.
- WIRING IN RACEWAY CONCEALED OVERHEAD OR IN WALLS (CROSSBARS DENOTE NUMBER OF CONDUCTORS WHEN MORE THAN TWO). REQUIRED GREEN EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN AS A CROSSBAR. ARROWS INDICATE NUMBER OF CIRCUITS.
- WIRING IN RACEWAY RUN EXPOSED.
- WIRING IN RACEWAY RUN CONCEALED IN CONCRETE SLAB OR UNDERGROUND.



SCHEMATIC FEEDER DIAGRAM

NOT TO SCALE

NOTE:
1. TERMINATION OF BRANCH CIRCUIT AND FEEDER CONDUCTORS SHALL BE MADE USING MECHANICAL OR COMPRESSION LUGS. WHERE CONDUCTORS ARE TO BE CONNECTED TO EQUIPMENT FURNISHED WITH LUGS NOT SIZED FOR THE CONDUCTORS, CONTRACTOR SHALL CHANGE THE LUGS TO THE APPROPRIATE SIZE. OTHERWISE, OVER-SIZED CONDUCTORS SHALL BE TRANSITIONED TO SUITABLE CONDUCTOR SIZES USING JUNCTION BOXES, ETC.

02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

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ELECTRICAL SCHEDULES

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04-01-25

DATE:	4/9/2025 3:57:26 PM
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GVA ENGINEERING, L.L.C.
PROJECT No. 4476

DEDICATED FUNCTION FIRE ALARM SYSTEM NOTES

FIRE ALARM SYSTEM SUBMITTALS

1. CONTRACTOR SHALL HAVE A CERTIFIED FIRE ALARM INSTALLER PREPARE THE SUBMITTAL (CONSISTING OF EQUIPMENT BROCHURE BOOKLET AND SHOP DRAWINGS WITH PLAN VIEW AND ONE LINE SCHEMATIC DRAWINGS FOR THE WORK OF THIS CONTRACT.)

2. EQUIPMENT BROCHURES SHALL CONSIST OF ITEMS SPECIFIED HEREINAFTER AND ITEMS THAT ARE PERTINENT TO THE WORK. THE BROCHURES SHALL INCLUDE A SEQUENCE OF OPERATION, BATTERY CALCULATIONS, AND STATEMENT IDENTIFYING "TYPE OF SYSTEM". THESE BROCHURES SHALL BE SUBMITTED FOR REVIEW PER PARAGRAPH 16010.2.3. WHERE REMOTE STATION MONITORING IS REQUIRED, BROCHURES SHALL PROVIDE THE NAME OF THE MONITORING COMPANY (WHICH MUST BE FIRE MARSHAL APPROVED).

3. SHOP DRAWINGS SHALL INDICATE SIZES, QUANTITIES, AND TYPES OF CONDUCTORS, CABLES AND DETAILS NECESSARY TO INSTALL THE WORK, TO INCLUDE STROBE CANDELA RATINGS.

4. A PDF FILE OF THE SUBMITTAL SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW. IN ADDITION, A PDF FILE AND ONE FULL-SIZED PRINTED (HARD) COPY OF THE SUBMITTAL SHALL BE PROVIDED TO THE ELECTRICAL ENGINEER FOR REVIEW,

5. AFTER THE A/E COMPLETES THEIR REVIEW AND THE CONTRACTOR HAS INCORPORATED THE COMMENTS, CONTRACTOR SHALL MAKE HIS ONLINE APPLICATION AND PAYMENT TO THE FIRE MARSHAL AND ATTACH THE FINAL REVIEWED SUBMITTAL CONTAINING THE A/E REVIEW STAMP. HE SHALL SELECT THE OPTION "STAMPED SHOP DRAWINGS ATTACHED", WHICH WILL ALLOW FIRE MARSHAL REVIEW WITHOUT FURTHER INVOLVEMENT BY PROFESSIONAL OF RECORD.

6. IF ADDITIONAL CLARIFYING DETAILS AND/OR COMPONENTS ARE REQUIRED BY THE FIRE MARSHAL, CONTRACTOR SHALL PREPARE THE DETAILS, PROVIDE COMPONENTS, AND SECURE APPROVAL AT NO ADDITIONAL COST TO THE OWNER. INSTALLATION SHALL NOT BEGIN UNTIL THE FIRE MARSHAL'S REVIEW IS COMPLETE.

7. OPERATING INSTRUCTIONS PROVIDED TO THE OWNER SHALL INCLUDE SUBMITTAL BROCHURE, SHOP DRAWINGS, AND BOOKLET INCLUDING DEVICE ADDRESSES TO MATCH SHOP DRAWINGS, AND CONTROL COMMANDS FOR DOORS, HVAC, ELEVATORS, ETC.

8. IF THE WORK IS OF LIMITED SCOPE, THE FIRE MARSHAL MAY CONSIDER AN EXEMPTION FROM FULL PLAN REVIEW. IN THIS INSTANCE, SUFFICIENT INFORMATION SHALL BE PROVIDED TO THE A/E FOR REVIEW RELATIVE TO COMPLIANCE WITH SCOPE OF WORK.

FIRE ALARM SYSTEM

1. CONTRACTOR SHALL FURNISH AND INSTALL SMOKE DETECTORS, SIGNALS, MONITOR MODULES, CONTROL MODULES WITH RELAYS, CONTROL PANEL, DACT, WIRING AND RACEWAYS, AND ALL OTHER EQUIPMENT, WHETHER SPECIFICALLY INDICATED OR NOT, TO PROVIDE A COMPLETE AND OPERATING ADDRESSABLE ANALOG, NON-CODED, SUPERVISED FIRE ALARM SYSTEM TO MEET THE REQUIREMENTS OF NFPA 72 AND ALL OTHER APPLICABLE LIFE SAFETY CODES. THE DEDICATED FUNCTION FIRE ALARM SYSTEM IS TO GENERALLY MONITOR SPRINKLER SYSTEM EQUIPMENT AS WELL AS OTHER DEVICES INDICATED.

2. CONTRACTOR SHALL PROVIDE WIRING AS RECOMMENDED BY THE MANUFACTURER AND IT SHALL BE INDICATED IN THE POINT-TO-POINT INTERCONNECTION DRAWINGS THAT SHALL BE INCLUDED WITH THE SUBMITTALS. THE COMPLETED INSTALLATION IS TO CONFORM TO APPLICABLE SECTIONS OF NFPA 72, LOCAL AND STATE CODE REQUIREMENTS AND THE NATIONAL ELECTRICAL CODE. ENTIRE SYSTEM SHALL HAVE BATTERY BACKUP TO MEET NFPA AND LOCAL CODES PLUS 20% SPARE CAPACITY.

3. WIRING FOR INITIATION DEVICES SHALL BE ARRANGED PER NFPA 72, TO LIMIT THE QUANTITY OF DEVICES CONNECTED TO EACH ADDRESSABLE INTERFACE POINT IN CONTROL PANEL. WIRING FOR VOICE NOTIFICATION SYSTEMS SHALL BE PROVIDED IN SEPARATE ZONES TO ACCOMMODATE THE VOICE ZONE SELECTOR SWITCHES.

4. SMOKE DETECTORS SHALL BE PHOTOELECTRIC, LOW PROFILE, ADDRESSABLE, ANALOG TYPE WITH BASE MOUNTED ON FLUSH OUTLET BOX. SMOKE DETECTORS SHALL COMMUNICATE ACTUAL SMOKE CHAMBER VALUES TO THE SYSTEM CONTROL PANEL. SENSORS SHALL BE LISTED TO UL 268. SENSORS SHALL BE LISTED AS COMPATIBLE WITH THE CONTROL EQUIPMENT AND SHALL, IN COMBINATION WITH THIS CONTROL EQUIPMENT, BE ABLE TO GENERATE SENSITIVITY REPORTS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS AUTOMATICALLY MEETING NFPA SENSITIVITY TESTING REQUIREMENTS. SENSORS SHALL BE FULLY FIELD PROGRAMMABLE FOR SENSITIVITY LEVELS AND INDICATE WHEN MAINTENANCE IS REQUIRED. EACH SENSOR BASE SHALL CONTAIN AN LED THAT WILL FLASH EACH TIME THE DETECTOR IS SCANNED. LED SHALL ALSO INDICATE WHEN THE SENSOR IS IN ALARM.

5. PROVIDE A SMALL PERMANENT LABEL ON EACH ADDRESSABLE DEVICE TO INDICATE THE ADDRESS.

6. AUDIOVISUAL SIGNAL UNITS SHALL BE WALL MOUNTED HORNS WITH STROBE LIGHTS WITH OFF-WHITE PLATE/HOUSING. STROBE LIGHTS SHALL BE XENON FLASHER, WITH THE WORD "FIRE" AND SHALL BE ADA COMPATIBLE AND LISTED TO UL 1971. UNITS SHALL BE MOUNTED ON FLUSH OUTLET BOXES. WHERE SURFACE MOUNTING IS ALLOWED, AN OFF-WHITE FULL SIZE BACKBOX MADE SPECIFICALLY FOR THESE SIGNAL UNITS SHALL BE USED. MOUNTING HEIGHT TO THE BOTTOM OF THE DEVICE LENSE SHALL BE 80" ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE. STROBE INTENSITY AT EACH LOCATION SHALL BE SELECTED TO MEET ADA AND NFPA 72. WHERE THERE ARE MORE THAN TWO UNITS IN A SPACE, UNITS SHALL FLASH IN SYNCHRONIZATION. AUDIO UNIT SHALL BE SELECTED TO PROVIDE ADEQUATE VOLUME AT EACH LOCATION.

7. PROVIDE A SPRINKLER SYSTEM VALVE SUPERVISORY SWITCH, INCLUDING ALL ADDITIONAL HARDWARE (VALVE POSITION TAMPER SWITCHES, ETC.) AS REQUIRED FOR EACH VALVE OF EACH FIRE WATER BACKFLOW PREVENTER, WHETHER SPECIFICALLY INDICATED OR NOT. ASSOCIATED WIRING SHALL BE ROUTED IN CONDUIT ROUTED UNDERGROUND TO SUIT INSTALLATION. CONTRACTOR SHALL REFER TO CIVIL DRAWINGS AS WELL AS DOCUMENTS OF OTHER TRADES FOR EXACT LOCATIONS.

8. PROVIDE ADDRESSABLE CONTROL MODULES (WITH RELAYS AS NEEDED) AT EACH FAN AND FOR OTHER EQUIPMENT AS REQUIRED BY CODE. EACH CONTROL MODULE (OR ASSOCIATED RELAY TO BE PROVIDED) SHALL HAVE RATING (VOLTAGE, AMPERAGE, ETC.) TO SUIT ASSOCIATED EQUIPMENT TO BE CONTROLLED AND EACH CONTROL MODULE SHALL BE BOTH LOCATED WITHIN 2'-0" OF THE EQUIPMENT. PROVIDE WIRING IN RACEWAYS FROM CONTROL MODULES TO THE EQUIPMENT TO BE CONTROLLED. PROVIDE CUSTOM PROGRAMMING AS REQUIRED.

9. FIRE ALARM CONTROL PANEL SHALL BE MANUFACTURERED BY NOTIFIER NFW-100X SERIES OR EQUAL, SURFACE MOUNTED WITH BATTERY BACKUP (INCLUDING CHARGER, TRANSFER SWITCH, AND BATTERIES, WITH 24-HOUR CAPACITY IN STANDBY MODE AND 5-MINUTE CAPACITY IN ALARM MODE, MICROPROCESSOR BASED MONITORING AND CONTROL, 80 CHARACTER LCD DISPLAY, 400 EVENT HISTORICAL LOGGING, POINT SELECTABLE ALARM VERIFICATION FEATURE (ALARM VERIFICATION SHALL NOT BE PROGRAMMED AT THIS TIME), DEDICATED SUPERVISORY SERVICE INDICATOR, ACKNOWLEDGE TROUBLE SILENCE REMINDER (TIME INTERVAL AND SIGNAL TYPE TO BE PROGRAMMABLE TO SUIT OWNER), INTERFACE ADDRESSABLE DEVICES (EQUIPPED WITH HARDWARE FOR 99 ANALOG POINTS AND 99 MONITOR/CONTROL POINTS). THE QUANTITY AND CAPACITY OF THE ADDRESSABLE INTERFACE POINTS SHALL BE AS REQUIRED TO MEET THE LIMITATIONS OF NFPA 72.

10. A SMOKE DETECTOR, A MANUAL PULL STATION AND AN AUDIO/VISUAL SIGNAL UNIT SHALL BE PROVIDED AT THE CONTROL PANEL.

11. POWER SUPPLY PANELS SHALL BE PROVIDED (IN CLOSETS) AS NECESSARY AND SHALL BE PROVIDED WITH BATTERIES AND 120V CIRCUITS (EMERGENCY CIRCUITS, WHEN EMERGENCY CIRCUITS ARE USED FOR CONTROL PANEL). A SMOKE DETECTOR SHALL BE PROVIDED AT EACH POWER SUPPLY PANEL.

12. AN IP TYPE DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT) SHALL BE PROVIDED IN THE FIRE ALARM CONTROL PANEL EXCEPT THAT IT SHALL BE LOCATED IN AN I.T. CLOSET WHEN THE CONTROL PANEL IS SEMI-RECESSED IN A FINISHED AREA. IT SHALL BE USED TO TRANSMIT SYSTEM STATUS (FOR EACH DEVICE IN ALARM AND TROUBLE, SIMULTANEOUSLY, TO A REMOTE STATION RECEIVER VIA A CELLULAR COMMUNICATOR. THE CELLULAR COMMUNICATOR SHALL BE SIMILAR TO HONEYWELL HWF2V-COM OR HWF2A-COM AND SHALL CONNECT DIRECTLY TO THE PRIMARY AND SECONDARY PORTS OF THE FIRE ALARM CONTROL PANEL INTERNAL DACT. BATTERIES SHALL BE PROVIDED TO PROVIDE BACK-UP POWER FOR THE BUILT-IN POWER SUPPLY. A HAND HELD PROGRAMMER SHALL BE PROVIDED FOR EASE OF PROGRAMMING UNIT. THE COMMUNICATOR SHALL BE INSTALLED NEAR THE FIRE ALARM CONTROL PANEL. IF REQUIRED DUE TO LACK OF SIGNAL STRENGTH, EXTERNAL ANTENNA CABLES SHALL BE PROVIDED AT LOCATION AS DIRECTED BY ARCHITECT. CONTRACTOR SHALL PROVIDE PROGRAMMING, MAKE ALL CONNECTIONS, AND PROVIDE ONE YEAR OF REMOTE MONITORING SERVICE OF THE DACT USING THE MONITORING COMPANY SELECTED BY THE OWNER. THE SYSTEM SHALL ALLOW THE OWNER IN THE FUTURE, TO USE ANOTHER MONITORING COMPANY WHO WOULD BE ABLE TO INTERFACE THEIR MONITORING FACILITIES WITH THE INSTALLED DACT WITHOUT THE OWNER INCURRING ADDITIONAL COSTS FOR LICENSING, REPROGRAMMING, ETC.; SUBMITTAL SHALL INDICATE THIS.

13. PROGRAMMING SHALL BE PROVIDED AS REQUIRED.

14. SYSTEM SHALL OPERATE IN SUCH A WAY THAT ACTIVATION OF ANY PULL STATION OR SMOKE DETECTOR SHALL CAUSE ALL AUDIO AND VISUAL SIGNALS TO OPERATE, SONALERT TO SOUND UNTIL ACKNOWLEDGED BY THE OPERATOR, AND SIGNAL TO BE TRANSMITTED TO THE REMOTE MONITORING SYSTEM. ACKNOWLEDGMENT SHALL SILENCE SONALERT AND THIS OPERATION SHALL BE LOGGED IN MEMORY. OPERATION OF THE SIGNAL SILENCE BUTTON SHALL SILENCE ALL AUDIBLE SIGNALS AND TURN OFF ALL VISUAL SIGNALS) AND THIS OPERATION SHALL BE LOGGED IN MEMORY. AUDIO VISUAL SIGNALS SHALL REMAIN ON UNTIL THE SYSTEM IS RESET. A BREAK IN AN INITIATING LOOP, SIGNAL LOOP, MONITOR OR CONTROL CIRCUIT, WIRING TO A CONTROL CIRCUIT, LOSS OF POWER, ACTIVATION OF SPRINKLER VALVE SUPERVISORY SWITCH TO OFF NORMAL POSITION, ACTIVATION OF SPRINKLER PRESSURE SWITCH TO OFF NORMAL POSITION, THE SONALERT TO SOUND AND SIGNAL TO BE TRANSMITTED TO THE REMOTE MONITORING SYSTEM. ACKNOWLEDGING THE TROUBLE CONDITION SHALL CAUSE THE SONALERT TO BE SILENCED AND THE TROUBLE LED'S TO COME ON STEADY, AND SHALL BE ARCHIVED IN MEMORY. ALL ALARM AND TROUBLE CONDITIONS SHALL BE ARCHIVED IN THE MEMORY BY TIME AND DATE OF OCCURRENCE.

FIRE ALARM SYSTEM INSTALLATION

1. WIRING SHALL BE PROVIDED AS NECESSARY FOR PROPER SYSTEM OPERATION AND SHALL BE OF THE TYPE AS RECOMMENDED BY SYSTEM MANUFACTURER. WIRING SHALL BE CONTAINED IN CONCEALED RACEWAYS UNLESS NOTED OTHERWISE. THERE SHALL BE MINIMUM OF 40% SPARE ANALOG CAPACITY AND 40% SPARE BINARY CAPACITY IN EACH DATA LINE. AUDIO CIRCUIT AND STROBE CIRCUIT SHALL HAVE 50% SPARE CAPACITY FOR FUTURE ADDITIONS.

2. SYSTEM SHALL BE INSTALLED BY A QUALIFIED FIRE ALARM TECHNICIAN LICENSED BY THE STATE OF LOUISIANA. DEVICES SHALL BE INDIVIDUALLY TESTED. A FINAL OPERATIONAL TEST SHALL BE CONDUCTED ON THE ENTIRE SYSTEM. AFTER WIRING AND CONSTRUCTION IS COMPLETED, SYSTEM SHALL BE CERTIFIED BY EQUIPMENT SUPPLIER IN WRITING AS BEING COMPLETE AND PROPERLY OPERATING. THE CERTIFICATION LETTER SHALL INCLUDE NFPA 72 FORMS.

3. CONTRACTOR SHALL ADJUST VOLUME TAP ON EACH AUDIBLE SIGNAL UNIT FOR PROPER VOLUME AT EACH LOCATION.

4. CONTRACTOR SHALL MEET WITH THE OWNER TO ESTABLISH NAME FOR EACH DEVICE ADDRESS.

5. CONTRACTOR SHALL DEMONSTRATE PROPER OPERATION OF SYSTEM TO THE FIRE MARSHAL AND DEMONSTRATE SYSTEM TO HIM, AS MANY TIMES AS REQUIRED.

6. CONTRACTOR SHALL, AT THE COMPLETION OF THE PROJECT, ARRANGE WITH EQUIPMENT SUPPLIER TO TRAIN DESIGNATED OWNER PERSONNEL IN THE PROPER OPERATION, PROGRAMMING AND MINOR MAINTENANCE OF THE SYSTEM. THIS SHALL INCLUDE TRAINING ON PROGRAMMING TO MAKE CHANGES IN DEVICE ADDRESSING, TO MAKE OTHER SPECIFIED PROGRAMMING CHANGES (TO INCLUDE CHANGES TO SMOKE DETECTOR SENSITIVITY SETTINGS), AND TO GENERATE SYSTEM REPORTS. TRAINING SHALL BE MINIMUM OF TWO HOURS.

7. THE COMPLETED SYSTEMS SHALL BE GUARANTEED FREE FROM ELECTRICAL, MECHANICAL, SOFTWARE, AND/OR OPERATIONAL DEFECTS FOR A PERIOD OF ONE YEAR.

UNDERGROUND CONDUIT TRENCHING/BACKFILL NOTES

1. RIGID NONMETALLIC CONDUIT SHALL BE POLYVINYLCHLORIDE (PVC) TYPE AND MANUFACTURED BY ALLIED, DURA-LINE, OR APPROVED EQUAL. RIGID NONMETALLIC CONDUIT SHALL BE SCHEDULE 40 OR SCHEDULE 80 AS INDICATED, RATED FOR 90 DEGREES C, AND UL RATED. FITTINGS FOR RIGID NONMETALLIC CONDUIT SHALL BE MANUFACTURED BY THE SAME MANUFACTURER AS THE CONDUIT FURNISHED. RIGID NONMETALLIC CONDUIT MAY BE USED ONLY WHERE INDICATED IN DRAWINGS AND SPECIFICATIONS.

2. UNDERGROUND RIGID NONMETALLIC CONDUITS SHALL BE INDIVIDUAL CONDUITS. CONDUITS SHALL BE 4" SIZE UNLESS OTHERWISE INDICATED. CONDUITS SHALL SLOPE DOWNWARD TOWARD HANDHOLES AND AWAY FROM BUILDINGS WITH A PITCH OF NOT LESS THAN 3" PER 100 FEET. TOP OF CONCRETE ENVELOPE SHALL NOT BE LESS THAN 42" BELOW GRADE FOR CONDUCTORS OPERATED OVER 600V AND NOT LESS THAN 24" BELOW GRADE FOR 600V OR LESS, EXCEPT THAT UNDER ROADS AND PAVEMENTS THE MINIMUM FOR 600V OR LESS SHALL BE 30" BELOW GRADE. SEPARATORS SHALL BE OF PLASTIC AND SHALL MAINTAIN A MINIMUM OF 2" CONCRETE SEPARATION BETWEEN CONDUITS. THE JOINTS OF THE CONDUIT IN BANKS SHALL BE STAGGERED BY ROWS AND LAYERS SO AS TO PROVIDE A BANK HAVING MAXIMUM STRENGTH. END BELLS, FLEXIBLE COUPLINGS, AND EXPANSION JOINTS SHALL BE PROVIDED AS NECESSARY. EXPOSED VERTICAL RUNS, INCLUDING RISERS UP POLES AND THROUGH BUILDING SLAB, AND ELBOWS SHALL BE RIGID HEAVY WALL THREADED GALVANIZED CONDUIT; METALLIC TO NONMETALLIC CONDUIT ADAPTERS SHALL BE PROVIDED AT A POINT 10 FEET MINIMUM OUTSIDE PERIMETER OF BUILDING SLAB AS REQUIRED. STEEL CONDUIT SO INSTALLED SHALL BE EFFECTIVELY GROUNDED. NON-METALLIC CONDUIT SHALL NOT BE USED UNDER BUILDINGS.

UNDERGROUND CONDUIT HORIZONTAL DIRECTIONAL DRILLING (DIRECTIONAL BORING)

1. HIGH DENSITY POLYETHYLENE (HDPE) CONDUIT SHALL BE MANUFACTURED BY ALLIED, DURA-LINE, OR APPROVED EQUAL. HIGH DENSITY POLYETHYLENE CONDUIT SHALL BE SMOOTH-WALL TYPE APPROVED FOR HORIZONTAL DIRECTIONAL DRILLING INSTALLATION, SCHEDULE 80, RATED FOR 90 DEGREES C, AND UL RATED. COLOR OF CONDUIT SHALL BE RED WHERE ASSOCIATED WITH LINE VOLTAGE WIRING AND ORANGE WHERE ASSOCIATED WITH COMMUNICATION, ALARM, OR FIBER OPTIC CABLING. FITTINGS FOR HIGH DENSITY POLYETHYLENE CONDUIT SHALL BE MANUFACTURED BY THE SAME MANUFACTURER AS THE CONDUIT FURNISHED. HIGH DENSITY POLYETHYLENE CONDUIT MAY BE USED ONLY WHERE INDICATED IN DRAWINGS AND SPECIFICATIONS.

2. WHERE INDICATED ON DRAWINGS, HORIZONTAL DIRECTIONAL DRILLING SHALL BE PROVIDED TO CREATE AN UNDERGROUND HORIZONTAL BOREHOLE TROUGH IN WHICH CONDUIT IS TO BE INSTALLED. A PILOT BORE SHALL BE DIRECTIONALLY DRILLED FROM THE ENTRY PIT TO A PRE-DETERMINED EXIT LOCATION. THE DRILLING HEAD SHALL THEN BE REPLACED WITH A REAMER AND THE DRILLING STRING SHALL THEN BE PULLED BACK TO THE ENTRY HOLE, ENLARGING THE HOLE WHILE SIMULTANEOUSLY PULLING THE CONDUIT(S) INTO PLACE. WHERE PARALLEL CONDUITS ARE REQUIRED TO BE INSTALLED, ALL CONDUITS SHALL BE SIMULTANEOUSLY INSTALLED SO THAT EACH CONDUIT IS OF EQUAL LENGTH.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIRECTIONAL DRILLING METHOD AND EQUIPMENT. THE CONTRACTOR SHALL CONFIRM THAT THE DRILLING RIG AND MUD MIXING SYSTEM HAVE THE CAPACITY REQUIRED TO SUCCESSFULLY COMPLETE THE INSTALLATION KNOWING THE LENGTH OF THE CROSSING AND PRODUCT TYPE AND DIAMETER, AND SHALL CONSIDER GROUND AND GROUNDWATER CONDITIONS THAT CAN BE REASONABLY FORESEEN.

4. OPERATING RANGE AND DEGREE OF ACCURACY OF PROPOSED TRACKING SYSTEM SHALL BE ADEQUATE TO MEET PROJECT CONDITIONS. TRACKING/STEERING EQUIPMENT SHALL ALLOW FOR CONTINUOUS MONITORING OF THE DRILLING HEAD ALONG THE ENTIRE PROPOSED ALIGNMENT. IF A POOR CONTACT WITH THE TRANSMITTER IS EXPECTED TO OCCUR AT ANY SECTION, THIS SHALL BE ENGINEERCHITECT [ENGINEER] PRIOR TO COMMENCEMENT OF CONSTRUCTION.

5. THE DRILLING UNIT SHALL BE EQUIPPED WITH AN ELECTRICAL STRIKE SAFETY PACKAGE UNLESS UNDERGROUND ELECTRICAL UTILITIES ARE CONFIRMED NOT IN THE AREA. THE PACKAGE SHALL INCLUDE WARNING SOUND ALARM, GROUNDING MATS AND PROTECTIVE GEAR.

6. ONLY TRAINED OPERATORS SHALL BE PERMITTED TO OPERATE THE DRILLING EQUIPMENT, AND MANUFACTURE'S OPERATING INSTRUCTIONS AND SAFETY PRACTICES SHALL ALWAYS BE FOLLOWED.

7. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DEVELOPING AND MAINTAINING EMERGENCY PROCEDURES FOR INADVERTENTLY BORING INTO EXISTING UTILITIES INCLUDING A LIVE POWER LINE, NATURAL GAS LINE, WATER LINE, SEWER LINE, OR FIBER-OPTIC CABLES.

8. IF A DRILLED HOLE BENEATH A MAN-MADE SURFACE MUST BE ABANDONED, THE HOLE SHALL BE FILLED WITH GROUT TO PREVENT FUTURE SUBSIDENCE. THE ENGINEER SHALL BE NOTIFIED BEFORE THE BOREHOLE IS ABANDONED AND THE ABANDONED BOREHOLE SHALL BE IDENTIFIED ON THE AS-BUILT PLANS.

9. CONTRACTOR SHALL PREVENT DRILLING FLUIDS FROM ENTERING THE MANHOLES, SANITARY AND STORM SEWERS, OTHER DRAINAGE SYSTEMS, AND ANY WATERS OF THE UNITED STATES INCLUDING CREEKS AND STREAMS.

10. A STRICT MINIMUM BENDING RADIUS GUIDELINE IS IMPOSED SO AS TO AVOID AN EXCESSIVELY SHARP BENDING RADIUS AND CONSEQUENTLY, POSSIBLE DAMAGES TO THE CONDUIT. THE ENTRANCE ANGLE OF THE DRILL STRING SHALL BE BETWEEN 8 AND 20 DEGREES TO THE HORIZONTAL, WITH 12 DEGREES CONSIDERED OPTIMAL. THE EXIT ANGLE OF THE DRILL STRING SHALL BE WITHIN THE RANGE OF 5 TO 10 DEGREES.

11. DRILLING MUD SHALL BE USED DURING DRILLING AND BACK-REAMING OPERATIONS. DRILLING MUD PRESSURE IN THE BOREHOLE SHALL NOT EXCEED THAT WHICH CAN BE SUPPORTED BY THE OVERBURDEN TO PREVENT HEAVING OR HYDRAULIC FRACTURING OF THE SOIL.

12. THE PILOT HOLE SHALL BE BACK-REAMED TO ACCOMMODATE AND PERMIT FREE SLIDING OF THE PRODUCT INSIDE THE BOREHOLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE APPROPRIATE REAMER SIZE.

13. A SUFFICIENT NUMBER OF PRE-REAMS SHALL BE UTILIZED AS TO AVOID HEAVING WHILE ENLARGING THE HOLE TO THE DESIRED DIAMETER.

14. PIPE ROLLERS, SKATES OR OTHER PROTECTIVE DEVICES SHALL BE USED IN THE INSTALLATION OF CONDUITS (6 IN.) IN OUTSIDE DIAMETER OR LARGER.

15. PIPE INSTALLATION SHALL BE PERFORMED IN A MANNER THAT MINIMIZES THE OVER-STRESSING AND STRAINING OF THE PIPE.

16. DURING PULL-BACK OPERATIONS, THE CONDUIT SHALL BE SEALED WITH A CAP OR PLUG TO PREVENT WATER, DRILLING FLUIDS AND OTHER FOREIGN MATERIALS FROM ENTERING THE PIPE AS IT IS BEING PULLED BACK.

17. BREAKAWAY SWIVELS SHALL BE USED WITH PULLING HEAD TO LIMIT THE AMOUNT OF FORCE USED DURING PULL-BACK OPERATION.

18. SECTIONS OF HIGH DENSITY POLYETHYLENE (HDPE) CONDUIT SHALL BE ASSEMBLED AND JOINED ON THE JOB SITE ABOVE GROUND. JOINING SHALL BE ACCOMPLISHED BY THE BUTT-FUSION METHOD IN STRICT CONFORMANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE BUTT-FUSION METHOD FOR PIPE JOINING SHALL BE CARRIED OUT IN THE FIELD BY QUALIFIED FUSION TECHNICIANS FOLLOWING THE PIPE AND FITTING MANUFACTURER'S SPECIFICATIONS. THE JOINTS SHALL HAVE A SMOOTH, UNIFORM, DOUBLE ROLLED BACK BEAD MADE WHILE SUPPLYING THE PROPER MELT, PRESSURE AND ALIGNMENT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AN ACCEPTABLE BUTT-FUSION JOINT. THE CONTRACTOR SHALL PERFORM A LEAK TEST PRIOR TO PULL BACK. ALL JOINTS SHALL BE MADE AVAILABLE FOR INSPECTION BY THE ENGINEER BEFORE INSERTION.

19. TRENCHING MAY BE USED TO JOIN SECTIONS AT TIE-INS OF CONDUITS INSTALLED BY THE DIRECTIONAL BORING METHOD. AN ADDITIONAL PIPE LENGTH, SUFFICIENT FOR JOINING TO THE NEXT SEGMENT, SHALL BE PULLED INTO THE ENTRANCE PIT. THIS LENGTH OF THE PIPE SHALL NOT BE DAMAGED OR INTERFERE WITH THE SUBSEQUENT DRILLING OF THE NEXT LEG. THE CONTRACTOR SHALL LEAVE A MINIMUM OF 3 FEET OF CONDUIT ABOVE THE GROUND ON BOTH SIDES OF THE BOREHOLE. POLYETHYLENE PIPE, TIE-INS AND CONNECTIONS SHALL ONLY BE MADE AFTER A SUITABLE TIME PERIOD IN ORDER TO ALLOW THE PIPE TO RECOVER. RECOVERY PERIOD SHALL BE EQUAL TO AT LEAST TWICE THE PULL-BACK TIME.

20. EXCESS DRILLING MUD SLURRY SHALL BE CONTAINED IN A LINED PIT OR CONTAINMENT POUND AT EXIT AND ENTRY POINTS UNTIL RECYCLED OR REMOVED FROM THE SITE. ENTRANCE AND EXIT PITS SHALL BE OF SUFFICIENT SIZE TO CONTAIN THE EXPECTED RETURN OF DRILLING MUD AND SPOILS. PRECAUTIONS SHALL BE TAKEN TO KEEP DRILLING FLUIDS OUT OF THE STREETS, MANHOLES, SANITARY AND STORM SEWERS, AND OTHER DRAINAGE SYSTEMS INCLUDING STREAMS AND RIVERS. THE CONTRACTOR SHALL MAKE ALL DILIGENT EFFORTS TO MINIMIZE THE AMOUNT OF DRILLING FLUIDS AND CUTTINGS SPILLED DURING THE DRILLING OPERATION, AND SHALL PROVIDE COMPLETE CLEAN-UP OF ALL DRILLING MUD OVERFLOWS OR SPILLS.

21. ALL SURFACES AFFECTED BY THE WORK SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION. THIS INCLUDES BACKFILLING, REPLACEMENT OF TOPSOIL, SEEDING AND FERTILIZER.

22. CONTRACTOR SHALL SUBMIT A COMPLETE METHODOLOGY SPECIFIC TO EACH CROSSING, INCLUDING EQUIPMENT SPECIFICATIONS AND CAPABILITIES, SIZE OF PILOT HOLE, NUMBER AND SIZE OF PRE-REAMS, USE OF ROLLERS, BASKETS AND SIDE BOOMS TO SUSPEND AND DIRECT PIPE DURING PULL BACK, TYPE AND CAPABILITIES OF TRACKING SYSTEM, AND NUMBER OF SECTIONS IN WHICH THE CONDUIT IS TO BE INSTALLED.

23. CONTRACTOR SHALL SUBMIT A SHOP DRAWING INDICATING THE PROPOSED DRILL PATH INCLUDING ITS HORIZONTAL AND VERTICAL ALIGNMENTS AS WELL AS THE LOCATION OF BURIED UTILITIES AND SUBSTRUCTURES ALONG THE PATH. CONTRACTOR SHALL ALSO SUBMIT FOR APPROVAL A DRILLING FLUID MANAGEMENT PLAN DETAILING PROPOSED METHODS TO CONTROL, COLLECT, TRANSPORT, AND DISPOSE OF DRILLING FLUIDS AND SPOILS. RETURN AND SPOILS ARE THE DRILLING MUD AND CUTTINGS COLLECTED IN THE ENTRY AND EXIT PITS AS WELL AS ANY FLUID, WHICH ESCAPES FROM THE BOREHOLE TO THE SURFACE. THE PLAN SHALL CONTAIN A METHOD OF DEALING WITH INADVERTENT RETURNS OR SURFACE SEEPAGE OF DRILLING FLUIDS AND SPOILS AND A CONTINGENCY PLAN IN CASE OF SPILLS (I.E., DRILLING FLUIDS, HYDRAULIC FLUIDS, ETC.) INCLUDING MEASURES TO CONTAIN AND CLEAN THE AFFECTED AREA.

ELECTRICAL SPECIFICATIONS

1. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (2020), STATE AND CITY REGULATIONS AND ORDINANCES.

2. MATERIALS SHALL BE NEW AND U.L. APPROVED, EXCEPT AS INDICATED.

3. CONTRACTOR SHALL APPLY FOR PERMITS AND PAY INSPECTION FEES. NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTOR. UPON COMPLETION, FURNISH CERTIFICATE OF APPROVAL FROM DIVISION OF REGULATORY INSPECTION AS APPLICABLE.

4. CUTTING SHALL BE DONE BY THIS CONTRACTOR. NO CUTTING OF STRUCTURAL MEMBERS SHALL BE DONE WITHOUT PERMISSION OF THE ARCHITECT. HOLES CUT SHALL BE PATCHED IN A SUITABLE MANNER AND SHALL BE REFINISHED TO MATCH THE EXISTING FINISH. HOLES CUT IN EXTERIOR WALLS SHALL BE PATCHED, FLASHED, AND COMPLETELY WATERPROOFED. GROUTING SHALL BE PROVIDED AROUND RACEWAY PENETRATIONS THROUGH CONCRETE FLOORS EQUAL TO THE FIRE RATING OF THE FLOOR USING NON-SHRINKING WATERPROOF GROUT TO INHIBIT WATER FROM LEAKING THROUGH THE FLOOR. CONTRACTOR SHALL ALSO PATCH AND/OR REPAIR WALLS, CEILINGS, AND FLOORS WHERE EXISTING EQUIPMENT IS REMOVED. ANY DAMAGE TO FINISHED SURFACES SHALL BE REPAIRED BY THIS CONTRACTOR AT HIS OWN EXPENSE.

5. SERVICES IN EXISTING AREAS OF THE PARK ARE TO BE KEPT IN OPERATION AT ALL TIMES, EXCEPT WHEN SPECIFIC PERMISSION IS GIVEN TO DO OTHERWISE. BEFORE ANY SERVICES ARE INTERRUPTED, ARRANGEMENTS SHALL BE MADE WITH THE OWNER TO DO THIS WORK AT A TIME MOST CONVENIENT TO THE OCCUPANTS. THIS PROCEDURE MAY INVOLVE WORKING AT NIGHT, ON SATURDAY OR SUNDAY, WITH THE LENGTH OF THE INTERRUPTION AGREED UPON IN ADVANCE. ALLOWANCE SHALL BE MADE IN CONTRACTOR'S BID FOR THE COST OF ANY OVERTIME WORK IN THIS CONNECTION.

6. THE BIDDER SHALL VISIT THE SITE OF PROPOSED WORK SO THAT HE MAY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE CONTRACT. HE WILL BE ALLOWED NO ADDITIONAL COMPENSATION FOR FAILURE TO BE SO INFORMED.

7. WITHIN 30 DAYS AFTER AWARD OF CONTRACT, CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW ONE PDF COPY OF DESCRIPTIVE LITERATURE OR SHOP DRAWINGS FOR WIRING DEVICES AND PLATES, PANELBOARDS, SAFETY SWITCHES, LIGHTING FIXTURES AND THE DEDICATED FUNCTION FIRE ALARM SYSTEM. HE SHALL ALSO SUBMIT ONE PRINTED COLOR (HARD) COPY OF THESE ITEMS DIRECTLY TO THE ELECTRICAL ENGINEER WITHOUT ROUTING THROUGH THE ARCHITECT.

8. THE CONTRACTOR SHALL GUARANTEE MATERIALS AND WORKMANSHIP FOR ONE YEAR AFTER FINAL ACCEPTANCE OF ENTIRE PROJECT, UNLESS A LONGER GUARANTEE IS INDICATED HEREINAFTER FOR SPECIFIC EQUIPMENT.

9. DEVICE PLATES SHALL BE #302 (NON-MAGNETIC) SATIN STAINLESS STEEL.

10. CONDUCTORS SHALL BE COPPER WITH TYPE THAN-2 INSULATION (RATED90 DEGREES C, DRY OR WET), AND SHALL BE #12 AWG OR LARGER.

11. WIRING INSTALLED OUTDOORS SHALL BE CONTAINED IN RIGID HEAVY WALL CONDUIT, HOT-DIPPED GALVANIZED INSIDE AND OUT.

12. WHERE ARCHITECT DETERMINES THAT RACEWAYS ARE TOO LARGE TO BE INSTALLED IN SLABS, THE RACEWAYS SHALL BE INSTALLED BENEATH THE SLABS.

13. OTHER WIRING SHALL BE CONTAINED IN ELECTRIC METALLIC TUBING WITH STEEL COMPRESSION FITTINGS, UNLESS INDICATED OTHERWISE.

14. RACEWAYS SHALL BE CONCEALED UNLESS INDICATED OTHERWISE.

15. TIE-WIRES SHALL NOT BE USED FOR SUPPORT OF RACEWAYS. RACEWAYS SHALL BE SUPPORTED BY THREADED RODS, STRUT, BUILDING STRUCTURE, ETC. THAT SECURE THE RACEWAYS (TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT) IN ADDITION TO SUPPORTING THEM.

16. OUTLET BOXES SHALL BE GALVANIZED STEEL, 4" SQUARE x 1-1/2" DEEP, OR LARGER BOX WITH RAISED DEVICE COVER. CEILING BOXES SHALL BE 4" OCTAGONAL x 1-1/2" DEEP OR LARGER. BOXES IN WALLS SHALL NOT BE INSTALLED BACK-TO-BACK. PULL BOXES AND WIREWAYS SHALL BE GALVANIZED STEEL.

17. OUTLET BOXES FOR EXPOSED WORK AT DRY LOCATIONS IN MECHANICAL AND ELECTRICAL ROOMS (WHERE EXPOSED RACEWAYS ARE INSTALLED)SHALL BE 4" SQUARE X 1-1/2" DEEP OR LARGER WITH APPLETON 1/2" DEEP RAISED SURFACE METAL COVERS TO ACCOMMODATE THE DEVICES INDICATED. FOR OTHER EXPOSED WORK AT DRY LOCATIONS INSIDE BUILDINGS, BELL BOXES OF SIMILAR CAPACITY SHALL BE USED, UNLESS SURFACE METAL RACEWAY SYSTEM IS SPECIFIED FOR THESE AREAS. OUTLET BOXES FOR EXPOSED WORK THAT IS EXPOSED TO WEATHER OR IN DAMP LOCATIONS SHALL BE OF CAST OR MALLEABLE IRON, SIMILAR TO CROUSE-HINDS TYPE FS OR FD CONDUITS. BOXES SHALL HAVE METAL COVERS TO ACCOMMODATE THE DEVICES INDICATED.

18. EACH BRANCH CIRCUIT AND FEEDER SHALL BE PROVIDED WITH A GROUND CONDUCTOR INSTALLED WITH THE CIRCUIT CONDUCTORS. EACH GROUND CONDUCTOR SHALL BE A GREEN INSULATED COPPER CONDUCTOR, WITH MINIMUM SIZE IN ACCORDANCE WITH TABLE 250-122 OF THE NATIONAL ELECTRICAL CODE NFPA-70. THESE GROUNDING CONDUCTORS ARE NOT SHOWN ON THE DRAWINGS.

19. AFTER COMPLETION OF BRANCH CIRCUIT WORK, NEW CORRECTED TYPEWRITTEN DIRECTORIES SHALL BE PROVIDED IN PANELBOARDS SERVING THE AREA.

20. SAFETY SWITCHES SHALL BE SQUARE D, GENERAL DUTY FOR 208-240VOLT NON-FUSED SWITCHES, AND HEAVY DUTY FOR 480V SWITCHES AND 208-240 VOLT FUSIBLE SWITCHES. SAFETY SWITCHES SHALL HAVE VISIBLE BLADES, AND FUSIBLE SWITCHES SHALL HAVE CLASS R REJECTION FEATURE. EACH SHALL HAVE A PHENOLIC NAMEPLATE (WHITE WITH BLACK-CUT LETTERS) ATTACHED WITH TWO SCREWS TO IDENTIFY THE LOAD SERVED.

21. CONNECTION TO MOTORS SHALL BE MADE WITH A SHORT PIECE OF FLEXIBLE METAL CONDUIT BETWEEN RIGID CONDUIT SYSTEM AND MOTOR TERMINAL BOX. A SEPARATE COPPER CONDUCTOR SHALL BE CONNECTED BETWEEN MOTOR FRAME AND RIGID CONDUIT SYSTEM.

22. DRIVERS FOR LED FIXTURES SHALL BE ELECTRONIC, CONSTANT CURRENT, LOW NOISE, MINUS 40 DEGREES C TEMPERATURE RATING, CLASS A SOUND RATING, MINIMUM 0.9 POWER FACTOR, 50000 HOUR LIFETIME, LESS THAN 20% THD, AND SHALL BE INSTALLED IN AN ELECTRICAL ENCLOSURE. BATTERY BACKUP SHALL PROVIDE A MINIMUM OF 1400 LUMENS FOR 1-1/2 HOURS.

23. PROVIDE BONDING AROUND CONCENTRIC AND ECCENTRIC KNOCKOUTS ON EQUIPMENT.

24. IN GENERAL, RECEPTACLES, AND DATA OUTLETS, SHALL BE INSTALLED AT 18" A.F.F. AND SWITCHES SHALL BE INSTALLED AT 48" A.F.F., UNLESS NOTED OTHERWISE.

25. PROVIDE ADDITIONAL BOXES AND RACEWAYS AS NECESSARY. LOCATIONS SHALL MEET THE ARCHITECT'S APPROVAL.

26. SINGLE POLE SWITCHES SHALL BE HUBBELL #HBL1221-I, OR EQUAL. DUPLEX RECEPTACLES SHALL BE HUBBELL #5362-1, OR EQUAL. GFI RECEPTACLES SHALL BE HUBBELL #GFR5362-ITR.

27. WALL-MOUNTED AUTOMATIC LIGHTING SHUTOFF DEVICES SHALL BE WATTSTOPPER SERIES DW-100 OR EQUAL, WITH SELECTABLE PASSIVE INFRARED DETECTION TECHNOLOGY AND ACTIVE ULTRASONIC DETECTION TECHNOLOGY, WITH SELECTABLE "INITIAL" AND "MAINTAINED" SETTINGS. PASSIVE ULTRASONIC SENSORS THAT LISTEN FOR AUDIBLE SOUNDS ARE NOT ACCEPTABLE. COLOR OF DEVICE AND PLATE SHALL MATCH THAT SPECIFIED FOR WIRING DEVICE PLATES.

28. WEATHERPROOF DUPLEX RECEPTACLES SHALL BE WEATHER-RESISTANT GFI, HUBBELL #GFTR20I OR EQUAL WITH T & B RED DOT CODE - KEEPER OR EQUAL COVER (U.L. LISTED FOR WET LOCATION AT ALL TIMES).

29. DATA OUTLETS SHALL CONSIST OF OUTLET BOX AS INDICATED ABOVE WITH SINGLE GANG RAISED DEVICE COVER AND BLANK PLATE.

30. CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARDS SHALL BE COMPATIBLE WITH EXISTING PANELBOARDS, SHALL HAVE FAULT CURRENT RATING OF NOT LESS THAN THE EXISTING CIRCUIT BREAKERS, AND SHALL BE PROVIDED WITH BUSSING KIT ASSEMBLIES AS NEEDED.

31. LIGHTING PANELBOARDS SHALL BE SQUARE D TYPE NQ OR EQUAL WITH BOLT-ON BREAKERS, COPPER BUS, COPPER GROUND BUS, DOOR WITH FLUSH LATCH, CONCEALED TRIM CLAMPS, CIRCUIT DIRECTORY, 20" WIDE BACKBOX, AND PHENOLIC NAMEPLATE (WHITE WITH BLACK-CUT LETTERS) ATTACHED WITH TWO SCREWS TO INDICATE PANELBOARD DESIGNATION. CIRCUIT DIRECTORY SHALL INDICATE ROOM DESIGNATION AND TYPE OF LOAD FOR EACH CIRCUIT BREAKER. A PHENOLIC NAMEPLATE SHALL ALSO BE PROVIDED TO INDICATE THE UPSTREAM DEVICE (PANELBOARD, SWITCHBOARD, TRANSFORMER, ETC.) WHERE POWER ORIGINATES.

32. TIME SWITCH SHALL BE TORK DTS200B SERIES OR EQUAL, TWO-CHANNEL, 120/277V, MINIMUM 7 DAY PROGRAMMING, MINIMUM 20 DAY HOLIDAY SETBACK FEATURE, BATTERY/CAPACITOR BACKUP CAPABLE OF MAINTAINING PROGRAMMING FOR A MINIMUM 10 HOUR ELECTRICAL OUTAGE. MOUNT SWITCHES OVER FLUSH OUTLETS SO THAT RACEWAYS WILL BE CONCEALED. TIME SWITCHE SHALL BE DOUBLE POLE, SINGLE THROW, UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE 120V BRANCH CIRCUIT FOR CLOCK MOTOR. PHENOLIC NAMEPLATE (WHITE WITH BLACK CUT LETTERS) SHALL BE PROVIDED TO INDICATE FUNCTION OF TIME SWITCH.

FAULT CURRENT STUDY (LIMITED SCOPE)

1. A LIMITED SCOPE FAULT CURRENT STUDY SHALL BE PREPARED TO ADDRESS THE EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT IN THE VAULT BUILDING, NEW PANEL LC, AND EACH ITEM OF ELECTRICAL DISTRIBUTION EQUIPMENT CONNECTED BETWEEN THE TWO.

2. A LIMITED SCOPE FAULT CURRENT STUDY SHALL BE PREPARED BY THE CONTRACTOR WITHIN 30 CALENDAR DAYS FOLLOWING FINAL REVIEW OF CIRCUIT PROTECTIVE DEVICES, INCLUDING CIRCUIT BREAKERS, FUSES, OVERLOADS, AND PROTECTIVE RELAYS. THE STUDY SHALL INCLUDE CALCULATIONS TO PROTECT EQUIPMENT AND CONDUCTORS AGAINST FAULT CURRENTS AND SUSTAINED OVERLOAD CONDITIONS FOR CONDUCTORS AND EQUIPMENT TO BE INSTALLED. THE STUDY SHALL INCLUDE THE PROPER RATINGS OF FUSES AND PROPER SETTINGS OF ADJUSTABLE CIRCUIT BREAKERS ASSOCIATED WITH THE PROTECTION OF EQUIPMENT AND CONDUCTORS. IF NECESSARY, THE STUDY SHALL ALSO MAKE RECOMMENDATIONS FOR CHANGES TO NEW PROTECTIVE DEVICES, AND THESE CHANGES SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER; FOR THIS REASON, THE STUDY SHALL BE FINALIZED PRIOR TO CONTRACTOR RELEASING EQUIPMENT FOR PRODUCTION. ALSO FOR THIS REASON, THE CONTRACTOR SHOULD CONSIDER USING THE PANELBOARD MANUFACTURER TO MAKE THIS STUDY. CONTRACTOR SHALL TEST AND CALIBRATE PROTECTIVE DEVICES IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATION AFTER MAKING THE PROPER DEVICE SETTINGS AND BEFORE THE INITIAL ENERGIZATION OF THE CONDUCTORS AND EQUIPMENT. CONTRACTOR SHALL OBTAIN REQUIRED DATA FROM THE UTILITY COMPANY FOR COORDINATION WITH THE UTILITY COMPANY'S FACILITIES. THIS STUDY SHALL ALSO CONSIDER THE VARIOUS SCENARIOS ASSOCIATE WITH ENGINE GENERATOR(S) AS THE POWER SOURCE. THE STUDY SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER AND SHALL CONTAIN HIS SIGNED AND DATED SEAL ON THE FIRST PAGE.

3. COMPLETION OF THE FAULT CURRENT STUDY REQUIRES A COMPLETE UNDERSTANDING OF THE ENTIRE SET OF CONSTRUCTION DOCUMENTS BY THE PREPARER OF THE STUDY.

4. THE STUDY SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER ENGAGED PRIMARILY IN THE DESIGN, INSTALLATION, OR MAINTENANCE OF ELECTRICAL SYSTEMS. FURTHERMORE, THE STUDY SHALL CONTAIN THE ENGINEER'S SEAL AND DATE INDICATING RESPONSIBILITY FOR THE CORRECTNESS OF THE STUDY. THE SELECTION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, AND OPERATE THE SYSTEM.

5. A PHENOLIC NAMEPLATE (WHITE WITH BLACK-CUT LETTERS) SHALL BE PROVIDED ON EXISTING MAIN SWITCHBOARD, NEW PANEL LC, AND EACH ITEM OF ELECTRICAL DISTRIBUTION EQUIPMENT CONNECTED BETWEEN THE TWO TO INDICATE "AVAILABLE FAULT CURRENT IS ____KA" AND DATE THAT "CALCULATION WAS PERFORMED ON ____".

GVA ENGINEERING, L.L.C.
PROJECT No. 4476

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No.	Description	Date

02 APR. 2025	CD-100
28 FEB. 2025	CD-99
17 JAN. 2025	CD-85
31 OCT. 2024	SD-1
07 OCT. 2024	EC-1

Project: #2024-23

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ELECTRICAL
SPECIFICATIONS

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DATE:	4/9/2025 3:57:26 PM
PROJECT NO.:	2024-23
DRAWING BY:	JRB
CHECKED BY:	JRB
SHEET NO.:	E-4
CAD FILE NO: 2024-23\PDF OUT\EC	/7