

GENERAL NOTES

All standards for construction, materials and execution of the work shall conform to all adopted codes, standards, and regulations of the AHJ.

The drawings and specifications, including drawings prepared by specific engineering disciplines, are complimentary. Items shown in any one location shall be requirements of the contract for construction. The Architect shall be notified of any discrepancies or omissions which would interfere with the satisfactory completion of the work.

Contractor and subcontractors are to familiarize themselves with the construction site and verify existing conditions, site grades and locations of all utilities prior to commencing construction. Any deviation or changes necessary to achieve the installations shown shall be called to the attention of the architect.

All manufactured articles, materials and equipment shall be supplied, installed, connected, erected, used, cleaned, and conditioned as directed by the manufacturers, unless otherwise noted.

Contractor shall at all times keep premises free from accumulation of demolition debris, waste materials or rubbish caused by his operation and shall remove no less than weekly all debris from and about the project.

When all or part of this structure is open to the exterior, protect interior from wind, storm, rain and vandalism.

Provide blocking for all surface mounted, semi-recessed or recessed items such as accessories, grab bars, closet rods and shelves, drapery rods, shower curtain rods, countertops, etc.

Do not scale drawings. If dimensions are in question, the Contractor shall be responsible for obtaining clarification from the Architect prior to continuing construction of area in question.

Provide separation of all dissimilar metals.

All exterior exposed work shall be installed in such a manner as to assure weather tight condition. Contractor shall provide all caulking and weather barrier materials required for weather tight conditions. All occupied spaces shall receive an insulation barrier that is continuous at all exterior wall, ceiling and floor surfaces.

The General Contractor shall submit in writing all proposals for additional work to the Architect for review and approval. No work is to proceed until a signed proposal is returned to the general contractor.

The General Contractor shall submit all subcontractors shop drawings to the architect for written approval prior to work being performed.

The General Contractor is responsible for final and thorough cleaning of all surfaces, finishes and equipment and shall deliver the premises in "move-in" condition.

SYMBOLS LEGEND

GRAPHIC SYMBOLS

BUILDING SECTION SYMBOL:
UPPER=THE SECTION NUMBER
LOWER=THE SHEET WHERE DRAWN

CABINET TYPE SYMBOL:
UPPER=CABINET STYLE
LOWER=CABINET SIZE IN INCHES

WALL SECTION SYMBOL:
UPPER=THE SECTION NUMBER
LOWER=THE SHEET WHERE DRAWN

DETAIL SYMBOL:
UPPER=THE SECTION NUMBER
LOWER=THE SHEET WHERE DRAWN

EXTERIOR ELEVATION SYMBOL:
UPPER=THE ELEVATION NUMBER
LOWER=THE SHEET WHERE DRAWN

STRUCTURAL GRIDLINE IDENTIFIER

INTERIOR ELEVATION SYMBOL: THE DARKENED CORNERS INDICATE DRAWN WALLS. ELEVATION DRAWINGS ARE ARRANGED NUMERICALLY BY ROOM NUMBER ON THE INTERIOR ELEVATION SHEETS.

MATCHLINE FLAG

PLAN AND TRUE NORTH INDICATOR: THE HEAVY LINE REPRESENTS PLAN NORTH (USUALLY TOWARD THE TOP OF THE SHEET) THE SMALL ARROW INDICATES TRUE NORTH (IF DIFFERENT FROM PLAN NORTH).

WALL TYPE INDICATOR: REFER TO THE WALL TYPES SHEET FOR WALL TYPE ASSEMBLY.

WINDOW OR LOUVER TAG

DOOR TAG

FINISH TAG

FIXTURE TAG

WORK NOTE INDICATOR

9'-0" CEILING HEIGHT ABOVE FLOOR

DETAIL IDENTIFICATION: DASHED LINE INDICATES EXTENT OF ENLARGED PLAN OR DETAIL

ROOM IDENTIFICATION:

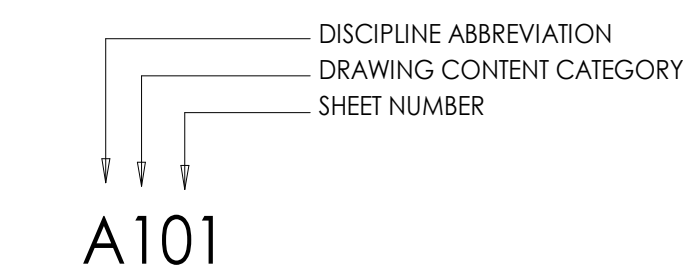
DISCIPLINE INDEX

A	ARCHITECTURAL
AV	AUDIO VISUAL
C	CIVIL OR SURVEY
D	DEMOLITION
E	ELECTRICAL
G	GENERAL INFORMATION
I	INTERIORS
L	LANDSCAPE
M	MECHANICAL
P	PLUMBING
S	STRUCTURAL
T	TECHNOLOGY
VT	VERTICAL TRANSPORTATION

CONTENT INDEX

0	GENERAL INFORMATION AND STANDARDS
1	PLANS INCLUDING SITE, FLOOR, CEILING AND ROOF DRAWINGS
2	EXTERIOR ELEVATIONS
3	BUILDING SECTIONS
4	ENLARGED PLANS, SECTIONS AND ELEVATIONS
5	DETAILS
6	SCHEDULES
7	SUPPLEMENTAL DWGS
8	SUPPLEMENTAL DRAWINGS

SHEET NUMBERING



MATERIAL PATTERNS

	BATT INSULATION
	BRICK
	CAST-IN-PLACE CONCRETE
	CONCRETE BLOCK
	EARTH OR BACKFILL
	STEEL
	PLASTER & GYPSUM BOARD
	PLYWOOD
	PRECAST CONCRETE
	RIGID INSULATION

TEXT SYMBOLS

&	AND
@	AT
X	BY
#	POUND OR NUMBER
/ OR :	PER
X'	(X) FEET
X"	(X) INCHES

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS AND SYMBOLS ARE USED ON DRAWINGS CONTAINED IN THE SET. SYMBOLS AND ABBREVIATIONS ON THIS SHEET APPLY ONLY TO ARCHITECTURAL DRAWINGS

A/C	AIR CONDITIONING	HB	HOSE BIB	SPEC	SPECIFICATION (S)
ACST	ACOUSTIC	HC	HOLLOW CORE	SPL	SPECIAL
ACR	ACRYLIC	HCAP	HANDICAPPED	SQ	SQUARE
AD	AREA DRAIN	HDW	HARDWARE	SST	STAINLESS STEEL
ADD	ADDENDUM	HM	HOLLOW METAL	STC	SOUND TRANSMISSION CLASS
ADH	ADHESIVE	HOR	HORIZONTAL	STD	STANDARD
ADJ	ADJACENT	HPT	HIGH POINT	STL	STEEL
ADJST	ADJUSTABLE	HR	HOUR	STO	STORAGE
AFF	ABOVE FINISHED FLOOR	HT	HEIGHT	STRU	STRUCTURAL
AHU	AIR HANDLING UNIT	HTR	HEATER	SUS	SUSPENDED
ALUM	ALUMINUM	HVAC	HEATING/VENTILATION/AC	SYM	SYMMETRICAL
AL	ALTERNATE	HW	HOT WATER	T	TREAD
ANOD	ANODIZED	HWH	HOT WATER HEATER	T&B	TOP AND BOTTOM
APC	ACOUSTICAL CEILING TILE	ID	INSIDE DIAMETER	T&G	TONGUE AND GROOVE
APPROX	APPROXIMATE (LY)	IN	INCH(ES)	TEL	TELEPHONE
ARCH	ARCHITECT(URAL)	INCAN	INCANDESCENT	TEMP	TEMPERATURE
ASPH	ASPHALT	INCL	INCLUDE (D), (ING)	THK	THICK (NESS)
AUTO	AUTOMATIC	INFO	INFORMATION	THR	THRESHOLD
BD	BOARD	INS	INSULATE (D), (ION)	THRU	THROUGH
BTWN	BETWEEN	INT	INTERIOR	TO	TOP OF
BLDG	BUILDING	INV	INVERT	TOB	TOP OF BEAM
BLK(G)	BLOCK (ING)	JT	JOINT	TOC	TOP OF CURB
BM	BEAM	LAB	LABORATORY	TOI	TOP OF INSULATION
BO	BY OTHERS	LAM	LAMINATE (D)	TOM	TOP OF MASONRY
BOT	BOTTOM	LAV	LAVATORY	TOS	TOP OF SLAB
BR	BACKER ROD	LB	POUND(S)	TOSTL	TOP OF STEEL
BRG	BEARING	LIB	LIBRARY	TOW	TOP OF WALL
BRK	BRICK	LIN	LINEAL	TPD	TOILET PAPER DISPENSER
BS	BOTH SIDES	LKR	LOCKER	TPART	TOILET PARTITION
BSMT	BASEMENT	LTR	LIGHT	TR	TRANSOM
BUR	BUILT UP ROOFING	MAINT	MAINTAIN (ENANCE)	TS	TUBE STEEL
CAB	CABINET	MAS	MASONRY	TV	TELEVISION
CUB	CUBIC FEET/MINUTE	MAX	MAXIMUM	TYP	TYPICAL
CG	CORNER GUARD	MC	MECHANICAL CONTRACTOR	TZ	TERRAZZO
CIPC	CAST-IN-PLACE CONCRETE	MECH	MECHANIC (AL)	UL	UNDERWRITERS LABORATORY
CJ	CONTROL JOINT	MET	METAL	UNFIN	UNFINISHED
CL	CENTERLINE	MFR	MANUFACTURE (ER)	UON	UNLESS OTHERWISE NOTED
CLG	CEILING	MH	MANHOLE	UR	URINAL
CLO	CLOSET	MIN	MINIMUM	VAR	VARIABLE (VARIES)
CLR	CLEAR (ANCE)	MIR	MIRROR	VB	VAPOR BARRIER
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS	VCT	VINYL COMPOSITION TILE
CO	CLEANOUT	MO	MASONRY OPENING	VERT	VERTICAL
COL	COLUMN	MR	MOISTURE RESISTANT	VEST	VESTIBULE
COMP	COMPRESS(ED), (ION, IBLE, OR)	MT	MOUNT (ED), (ING)	VIF	VERIFY IN FIELD
CONSTR	CONSTRUCTION	MTL	MATERIAL (S)	W	WIDE OR WIDTH
CONC	CONCRETE	NA	NOT APPLICABLE	W/	WITH
CONT	CONTINUOUS OR CONTINUE	NIC	NOT IN CONTRACT	W/O	WITHOUT
CONTR	CONTRACT (OR)	NO	NUMBER	WC	WATER CLOSET
COORD	COORDINATE	NOM	NOMINAL	WD	WOOD
CORR	CORRIDOR	NR	NONE REQUIRED	WP (G)	WATERPROOF (ING)
CORRUG	CORRUGATED	NRC	NOISE REDUCTION COEFFICIENT	WR	WATER RESISTANT
CPT	CARPET (ED)	NTS	NOT TO SCALE	WWF	WELDED WIRE FABRIC
CT	CERAMIC TILE	OA	OVERALL		
CSNK	COUNTERSINK/COUNTERSUNK	OB	OBSCURE		
CW	COLD WATER	OC	ON CENTER (S)		
DBL	DOUBLE	OD	OUTSIDE DIAMETER		
DEMO	DEMOLISH, DEMOLITION	OH	OVERHEAD		
DF	DRINKING FOUNTAIN	OPG	OPENING		
DIAM	DIAMETER	OPH	OPPOSITE HAND		
DIM	DIMENSION	OPP	OPPOSITE		
DISP	DISPOSAL	ORD	OVERFLOW ROOF DRAIN		
DN	DOWN	OZ	OUNCE		
DP	DEEP	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		
DPF	DAMP/PROOFING	PAR	PARALLEL		
DR	DOOR	PC	PRECAST CONCRETE		
DS	DOWNSPOUT	PERP	PERPENDICULAR		
DTL	DETAIL	PL	PLATE		
DWG	DRAWING	PLAM	PLASTIC LAMINATE		
EA	EACH	PLBG	PLUMBING		
EJ	EXPANSION JOINT	PNT	PAINT(ED)		
ELEV	ELEVATION	PRN	PORCELAIN		
ELEC	ELECTRIC (AL)	PSF	POUNDS PER SQUARE FOOT		
ENC	ENCLOSE (URE)	PSI	POUNDS PER SQUARE INCH		
ENT	ENTRANCE	PT	PRESSURE TREATED		
EQ	EQUAL	PVC	POLYVINYL CHLORIDE		
EQP	EQUIPMENT	PVMT	PAVEMENT		
EWC	ELECTRIC WATER COOLER	PWD	PLYWOOD		
EXH	EXHAUST	QTY	QUANTITY		
EXIST	EXISTING	R	RESISTANCE, THERMAL, RISER		
EXP	EXPOSED	RB	RESILIENT BASE		
EXPN	EXPANSION	RAD	RADIUS		
EXT	EXTERIOR	RCP	REFLECTED CEILING PLAN		
FBO	FURNISHED BY OWNER	RD	ROOF DRAIN		
FD	FLOOR DRAIN	RE	REFERENCE, REFER TO		
FEC	FIRE EXTINGUISHER CABINET	REINF	REINFORCING		
FEX	FIRE EXTINGUISHER	REM	REMOVE		
FIN	FINISH(ED)	REQ	REQUIRE (D)		
FLR(G)	FLOOR (ING)	RM	ROOM		
FND	FOUNDATION	RO	ROUGH OPENING		
FOS	FACE OF STUD	ROW	RIGHT OF WAY		
FR	FIRE RESISTIVE	RR	RESTROOM		
FT	FOOT, FEET	SC	SOLID CORE		
FTG	FOOTING	SCH	SCHEDULE		
FUT	FUTURE	SD	STORM DRAIN		
GA	GUAGE, GAGE	SEC	SECTION		
GALV	GALVANIZED	SHT	SHEET		
GB	GYPSUM BOARD	SHTH	SHEATHING		
GBAR	GRAB BAR	SIM	SIMILAR		
GC	GENERAL CONTRACT (OR)	SOG	SLAB ON GRADE		
GL	GLASS, GLAZING				

SHEET TABLE OF CONTENTS

ARCHITECTURAL

A000	COVER
A002	ACCESSIBILITY / CODE
A003	LIFE SAFETY PLANS
A100	SITE PLAN
A101	CONSTRUCTION PLAN
A102	FIRST FLOOR DESIGN PLAN
A150	POWER + LOW VOLT
A151	FIRST FLOOR RCP
A200	ELEVATIONS
A300	SECTIONS
A401	INTERIOR ELEVS
A410	ENLARGED PLANS
A411	ENLARGED PLANS
A500	ASSEMBLIES
A501	TYPICAL DETAILS
A600	OPENING SCHEDULE
A901	3D

EXISTING / DEMO

D100	EXISTING SITE PLAN - DEMOLITION
D101	EXISTING FIRST FLOOR PLAN - DEMO
D150	EXISTING FIRST FLOOR RCP
D200	EXISTING ELEVATIONS
D300	EXISTING SECTIONS
ID001	INSPO
ID101	SHELBY'S
ID102	SHELBY'S
ID104	RESTROOM
ID110	WAYSIDES
ID111	LIGHTING ALTERNATES

MECHANICAL

M100	MECHANICAL SPECIFICATIONS
M101	FIRST FLOOR MECHANICAL
M102	MECHANICAL DETAILS
M103	MECHANICAL DETAILS

PLUMBING

P100	PLUMBING SPECIFICATIONS
P101	FIRST FLOOR PLUMBING
P102	PLUMBING DETAILS

ELECTRICAL

E101	POWER RISER
E102	FLOOR PLAN - LIGHTING
E103	POWER AND SPECIAL SYSTEMS
E104	PANEL SCHEDULES

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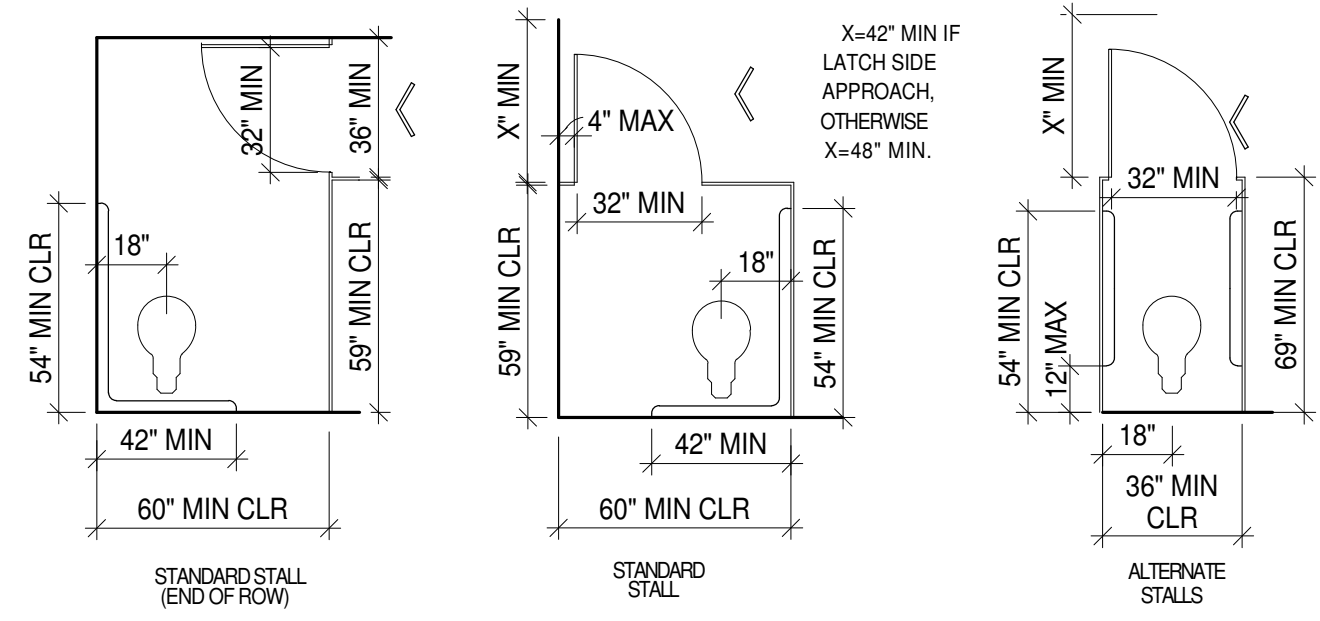
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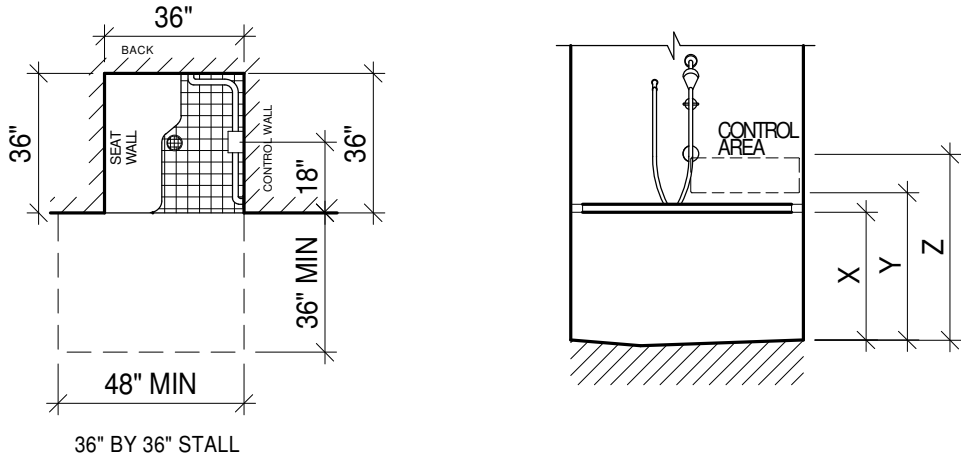
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DD
DATE:
06 MAY 2022

COVER

A000

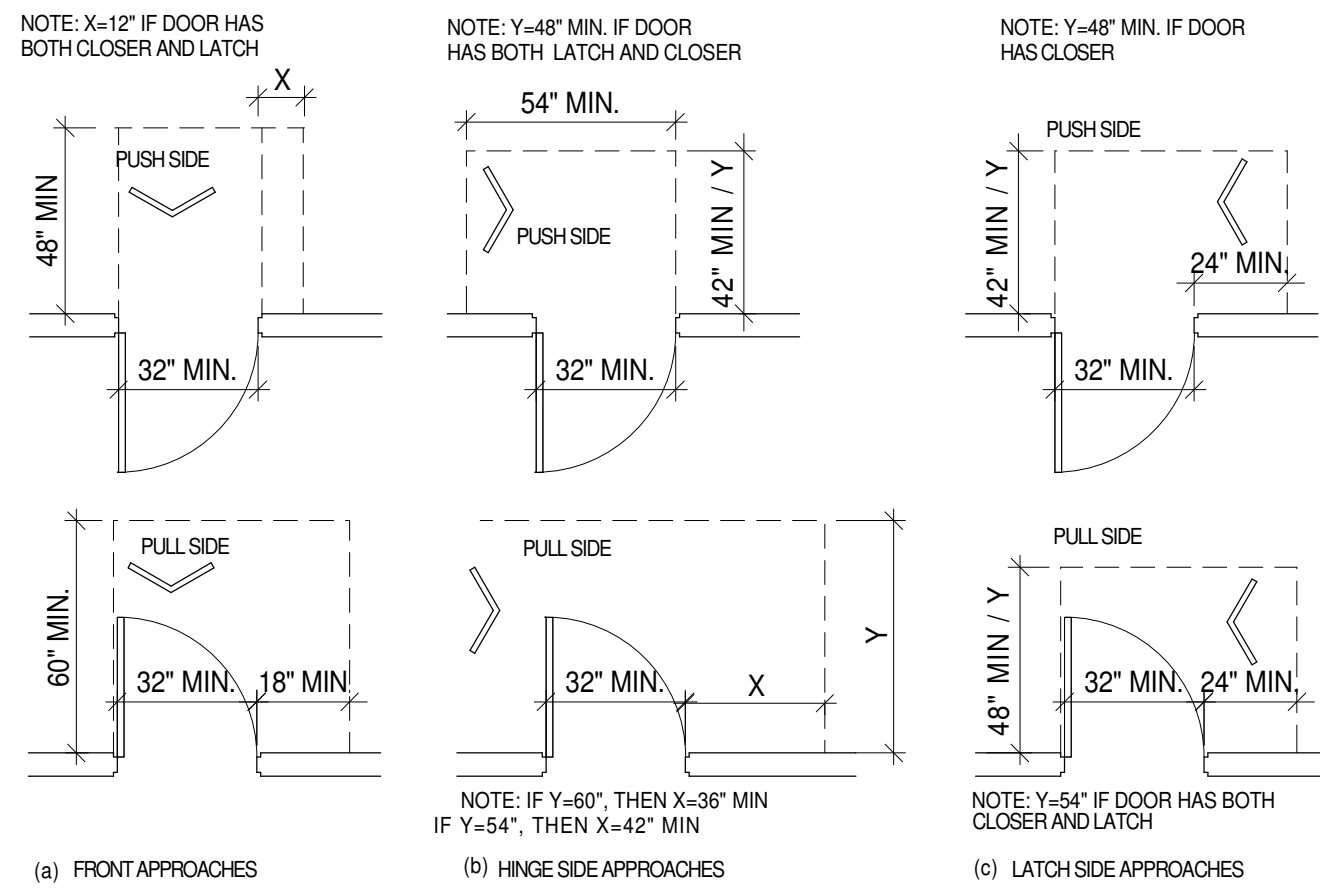


TOILET STALLS

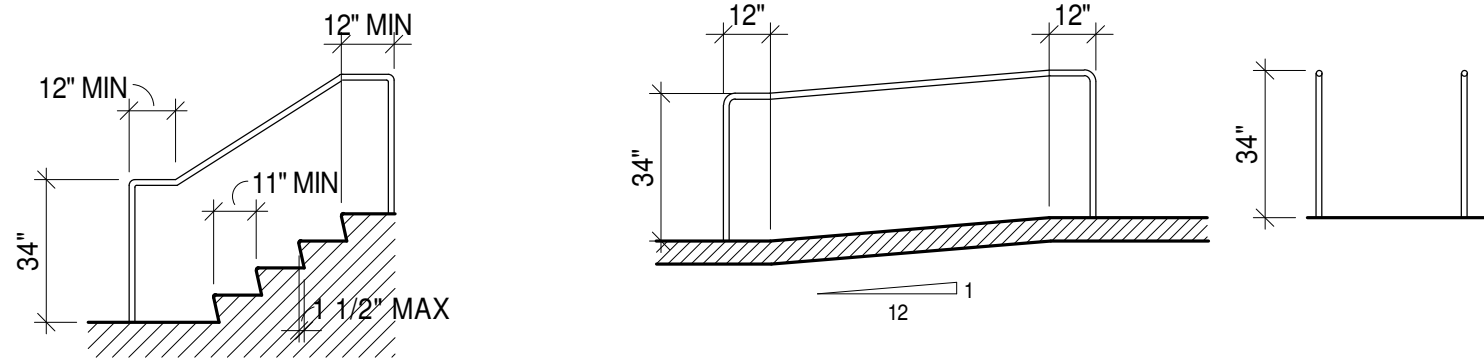


ADULT STD: X=33"-36" Y=38" MAX Z=48" MAX	6-8 OR 9 STD: X=30"-32" Y=35" MAX Z=45" MAX	PREK-5 OR 6 STD: X=28"-30" Y=32" MAX Z=42" MAX
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SHOWER SIZES AND CLEARANCES

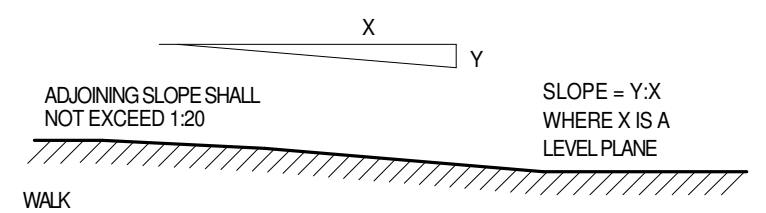


MANEUVERING CLEARANCES AT DOORS

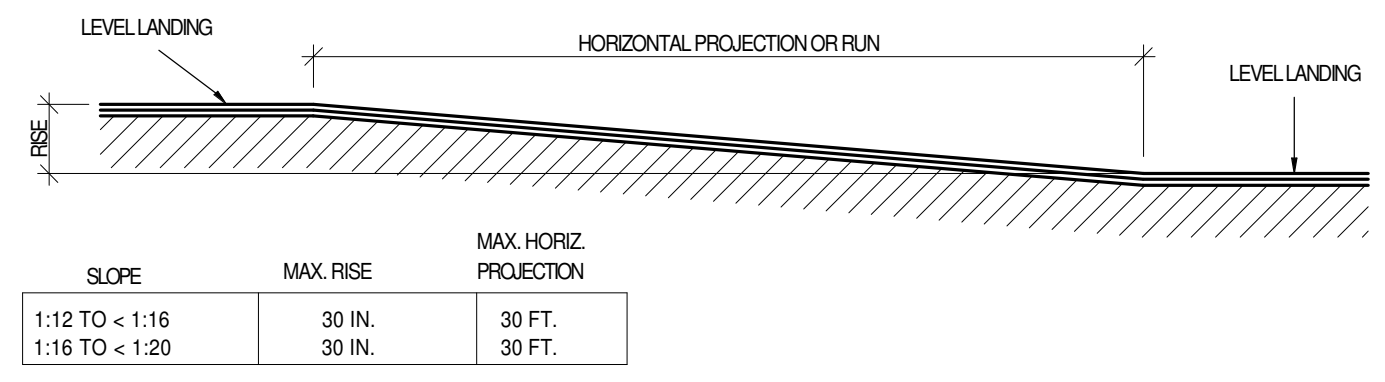


STAIR HANDRAILS

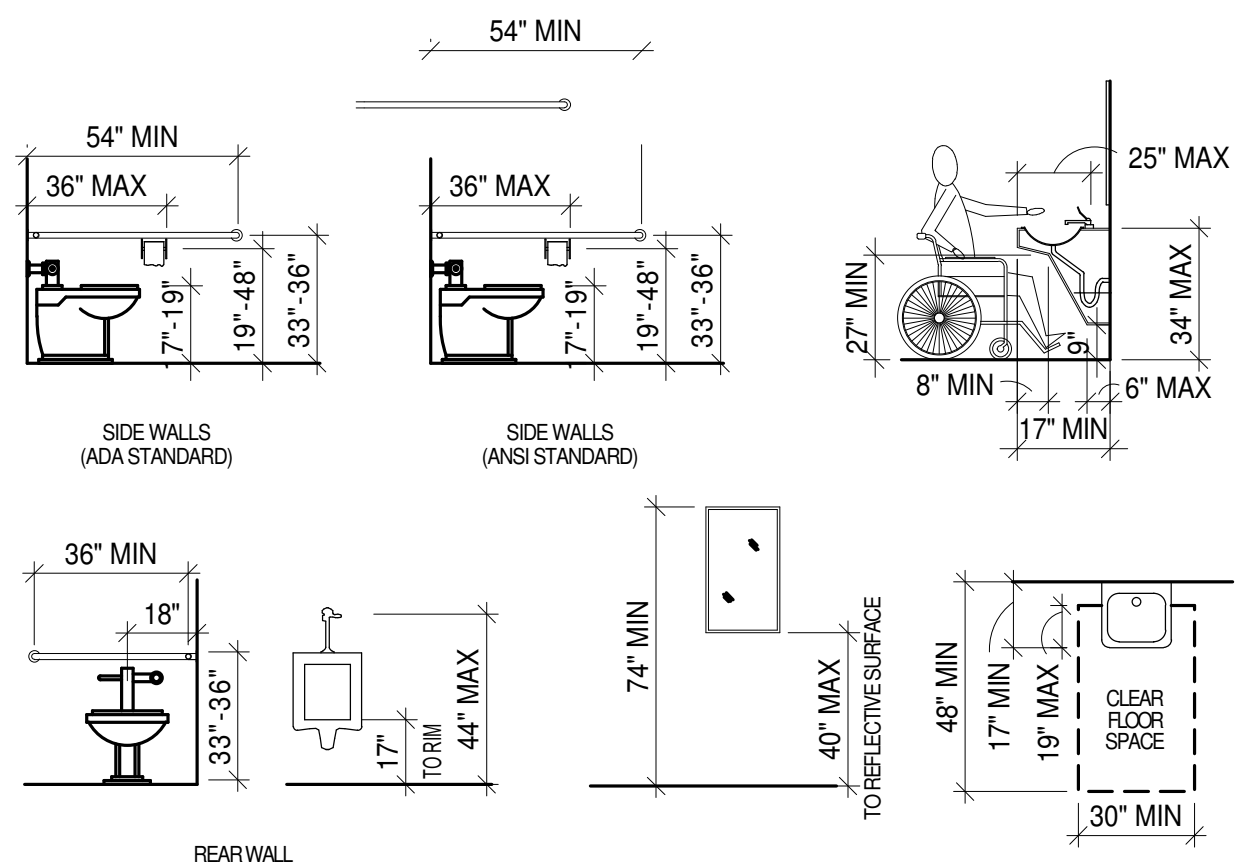
HANDRAIL EXTENSIONS



CURB RAMP SLOPES

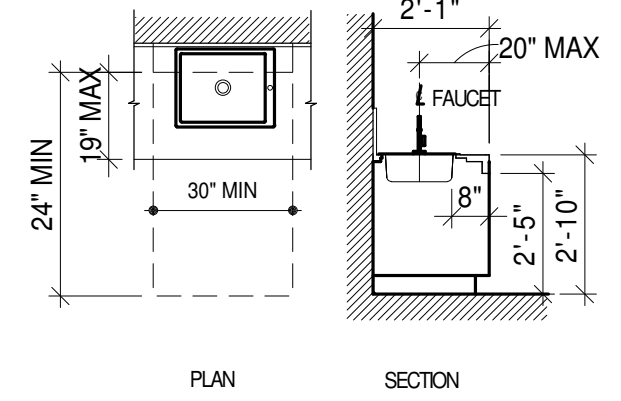
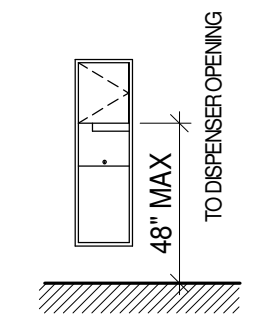


RAMP RUN DIMENSIONS



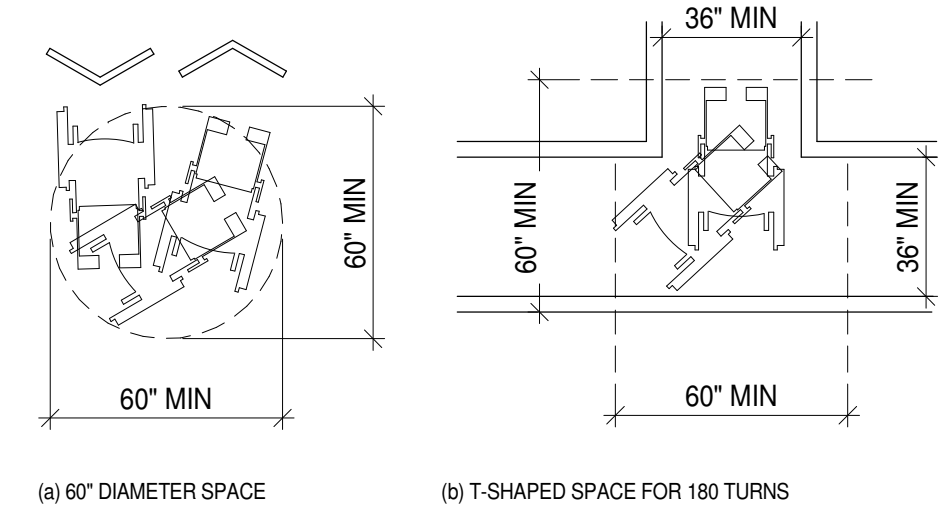
TOILET / URINAL

MIRROR AND LAVATORY

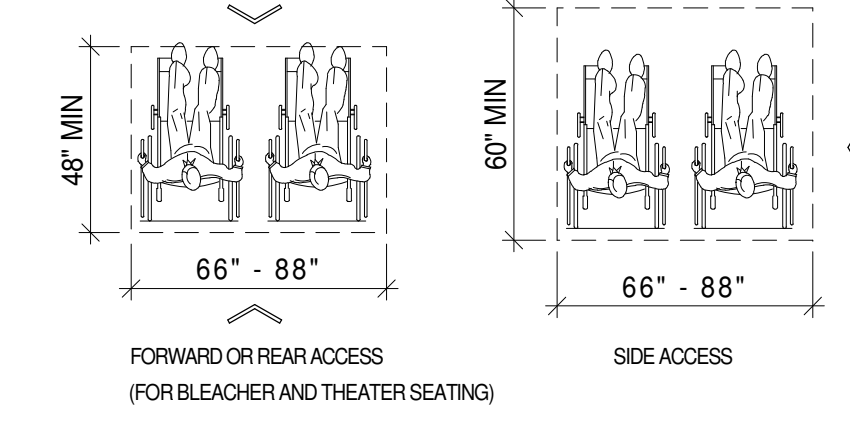


PAPER TOWEL DISPENSER

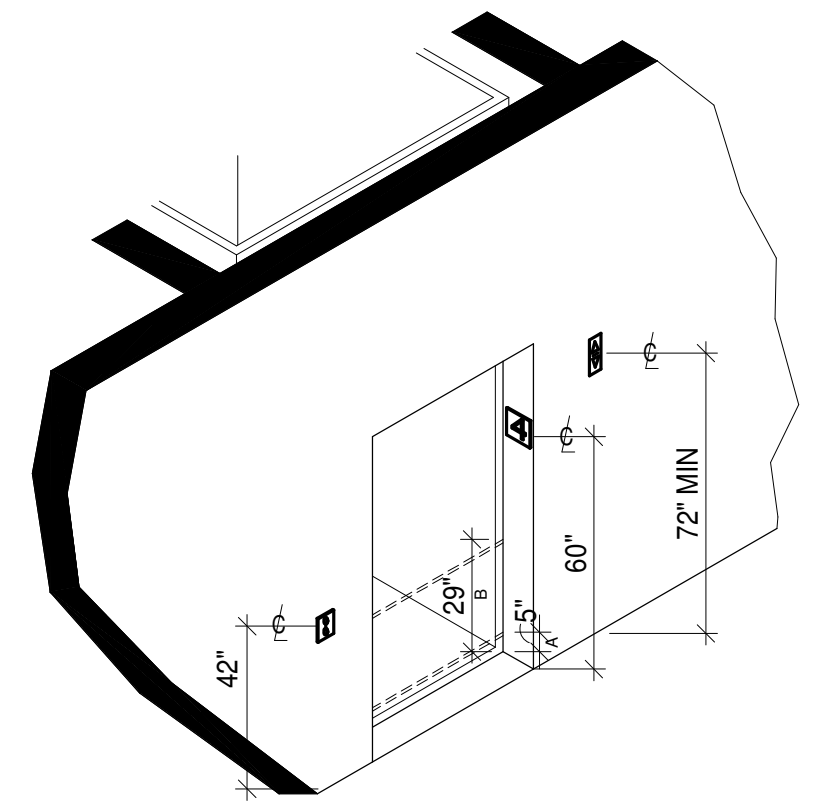
IN-COUNTER SINK



WHEELCHAIR TURNING SPACE

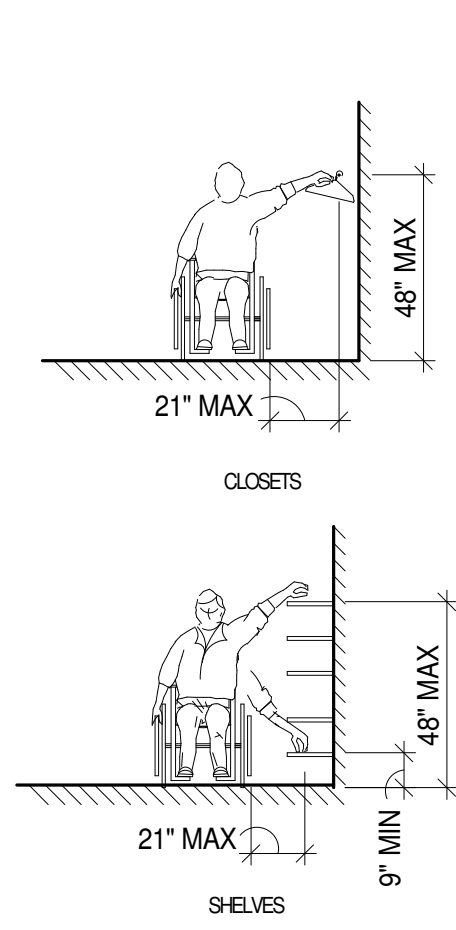


REQUIREMENTS FOR SEATING SPACES IN SERIES



NOTE: THE AUTOMATIC DOOR REOPENING DEVICE IS ACTIVATED IF AN OBJECT PASSES THROUGH EITHER LINE A OR LINE B. LINE A AND LINE B REPRESENT THE VERTICAL LOCATIONS OF THE DOOR REOPENING DEVICE NOT REQUIRING CONTACT.

ELEVATOR ENTRANCE



CLOSET AND STORAGE SHELVES

ZONING SUMMARY

ADDRESS	1526 MAGAZINE STREET
BLOCK	145
LOTS	88
LOT AREA	3,335 SF
FLOOD ZONE	'X'
STORMWATER PLAN REQD	NO. INTERIOR TENANT IMPROVEMENT + UNDER 5,000 SF OF IMPERVIOUS SURFACE
ZONING DISTRICT	HU-B1: HISTORIC URBAN NEIGHBORHOOD BUSINESS DISTRICT
OVERLAYS	CPC CHARACTER PRESERVATION CORRIDOR DESIGN OVERLAY DISTRICT MAGAZINE STREET USE RESTRICTION OVERLAY DISTRICT
HISTORIC DISTRICT	LOWER GARDEN: FULL CONTROL
BULK & YARD	MAX HEIGHT: 40' / 3 STORIES FRONT YARD: 0' SIDE YARD: 0' REAR YARD: 0' MIN. OPEN SPACE: 10% = 334' SF
USES	RESTAURANT: CONDITIONAL USE
BLDG AREA	BUILDING FOOT PRINT - 2,252 SF
OFF STREET PARKING	ALL USES ARE <5000 SF; ALL EXEMPT FROM PARKING REQUIREMENTS PER NOCZO 22.5.A.6
VEHICULAR REQUIRED:	0
BICYCLE PARKING	RESTAURANT: 1/2500 SF of Floor Area REQUIRED: 2
BIKE REQUIRED:	2
OFF STREET LOADING	NOT REQUIRED (22.7.C)

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ISSUE: DD
 DATE: 06 MAY 2022

ACCESSIBILITY / CODE

A002

CODE COMPLIANCE

2015 International Building Code
 2012 International Mechanical Code
 2012 International Fuel Gas Code
 2011 National Electrical Code
 2013 Louisiana State Plumbing Code
 NFPA 13 Standard for Installation of Sprinkler Systems
 NFPA 72 National Fire Alarm and Signaling Code
 NFPA 101 Life Safety Code

PROJECT INFORMATION

SCOPE OF WORK
 THE SCOPE OF WORK IS LIMITED TO THE INTERIOR BUILD OUT OF A RESTAURANT IN AN EXISTING BUILDING + FLOWER SHOP. ELEC SERVICE?

DESCRIPTION OF USE
 THE RESTAURANT AND FLOWER SHOP WILL SHARE BATHROOMS & MOP SINKS.

GENERAL BLDG INFO

CONSTRUCTION TYPE	TYPE V-B
BLDG FOOTPRINT	
BLDG AREA	2,095 SF
BLDG HEIGHT	14' - 6" / 1 STORY
SPRINKLER SYSTEM	

ALLOWABLE HEIGHTS & AREAS

IBC TABLES 504.3, 504.4, 506.2
 BASED ON MOST STRINGENT OCCUPANCY

ALLOWABLE HEIGHT	40' (A,B,M)
ALLOWABLE STORIES	1 (A2,A-3,M) 3(B)
ALLOWABLE AREA	NOT CALCULATED AS BLDG IS UNDER 6,000 SF

OCCUPANCY

NON-SEPARATED MIXED-USE OCCUPANCY

GROUND LEVEL UNIT A-2 + MERCANTILE

REFER TO LIFE SAFETY PLANS FOR ASSUMED OCCUPANT LOAD; FINAL LOAD CALCULATIONS & COMPLIANCE TO BE COMPLETED UPON TENANT BUILD OUT

FIRE RATED CONSTRUCTION

CONSTRUCTION TYPE TYPE V-B

IBC 601
 FIRE RESISTANCE RATING REQS
 STRUCTURAL FRAME OHR
 EXTERIOR WALLS OHR
 INTERIOR BEARING WALLS OHR
 FLOOR CONSTRUCTION OHR
 ROOF CONSTRUCTION OHR

IBC 602
 FIRE RESISTANCE RATING BASED ON FSD
 EXTERIOR WALLS W/ FSD <5' / M OCCUPANCY = 2HR
 EXTERIOR WALLS W/ FSD <5' / B - A OCCUPANCY = 1HR
 EXTERIOR WALLS W/ FSD <10' / B-A-M OCCUPANCY = 0HR

MAX AREA OF EXTERIOR WALL OPENINGS BASED ON FSD
 IBC 705.8
 3' TO LESS THAN 5' 15% (UNPROTECTED, SPRINKLERED)
 10' TO LESS THAN 15' 45% (UNPROTECTED, SPRINKLERED)
 25' TO LESS THAN 30' NO LIMIT (UNPROTECTED, SPRINKLERED)

INTERIOR FINISHES

IBC TABLE 803.11
 INTERIOR EXIT STAIRWAYS & PASSAGEWAYS CLASS 'B'
 GENERAL WALL & CEILING FINISHES CLASS 'C'

FIRE PROTECTION SYSTEMS

SPRINKLER SYSTEM
 NFPA 13 THROUGHOUT; NOT DUE TO THE EXEMPTION FOR IBC 1006.2.1

FIRE ALARM SYSTEM
 NOT REQ'D; MANUAL INITIATION SYSTEM WILL BE PROVIDED

PORTABLE FIRE EXTINGUISHERS
 IBC [F]906.1
 PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ALL OCCUPANCIES AND FINAL LOCATION SHALL BE DETERMINED BY THE AHJ REPRESENTATIVE UPON BUILD OUT.

MEANS OF EGRESS

SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
 IBC TABLE 1006.2.1
 MAX. OCCUPANT LOAD 49
 MAX. COMMON PATH OF EGRESS TRAVEL 100' (B OCCUPANCY)

SINGLE EXITS
 IBC 1006.3.2.2
 EXIT MUST DISCHARGE DIRECTLY TO THE EXTERIOR AT THE LEVEL OF DISCHARGE

NUMBER OF MEANS OF EGRESS (SINGLE EXIT)
 NFPA 38.2.4.3
 EXIT MUST DISCHARGE DIRECTLY TO THE EXTERIOR AT THE LEVEL OF DISCHARGE
 TRAVEL DISTANCE MUST NOT EXCEED 100'
 STAIRS MUST NOT EXCEED 15' IN HEIGHT
 INTERIOR STAIRS SHALL BE ENCLOSED PER NFPA 7.1.3.2 (1HR RATING)

SIZE OF DOORS
 IBC 1010.1.1
 MIN. CLEAR WIDTH 32"
 MAX. SWINGING DOOR WIDTH 48"

DIRECTION OF SWING
 IBC 1010.1.2.1 / NFPA 7.2.1.4.2
 DOORS MAY SWING INWARD SERVING LESS THAN 50 OCCUPANTS

STAIRWAY WIDTH
 IBC 1011.2
 OCC LOAD OF 50 OR MORE 44" MIN.
 OCC LOAD LESS THAN 50 36" MIN.

INTERIOR EXIT STAIRWAYS
 IBC 1023.2
 STAIRS SHALL BE ENCLOSED AND LEAD DIRECTLY TO EXTERIOR. ENCLOSURES SHALL BE FIRE BARRIERS WITH A 1HR RATING.

EXIT PASSAGEWAYS
 IBC 1023.2; NFPA 101 12.2.3.8, 101 38.2.3.2
 OCC LOAD OF 50 OR MORE 44" MIN.
 OCC LOAD LESS THAN 50 36" MIN.

ACCESSIBILITY

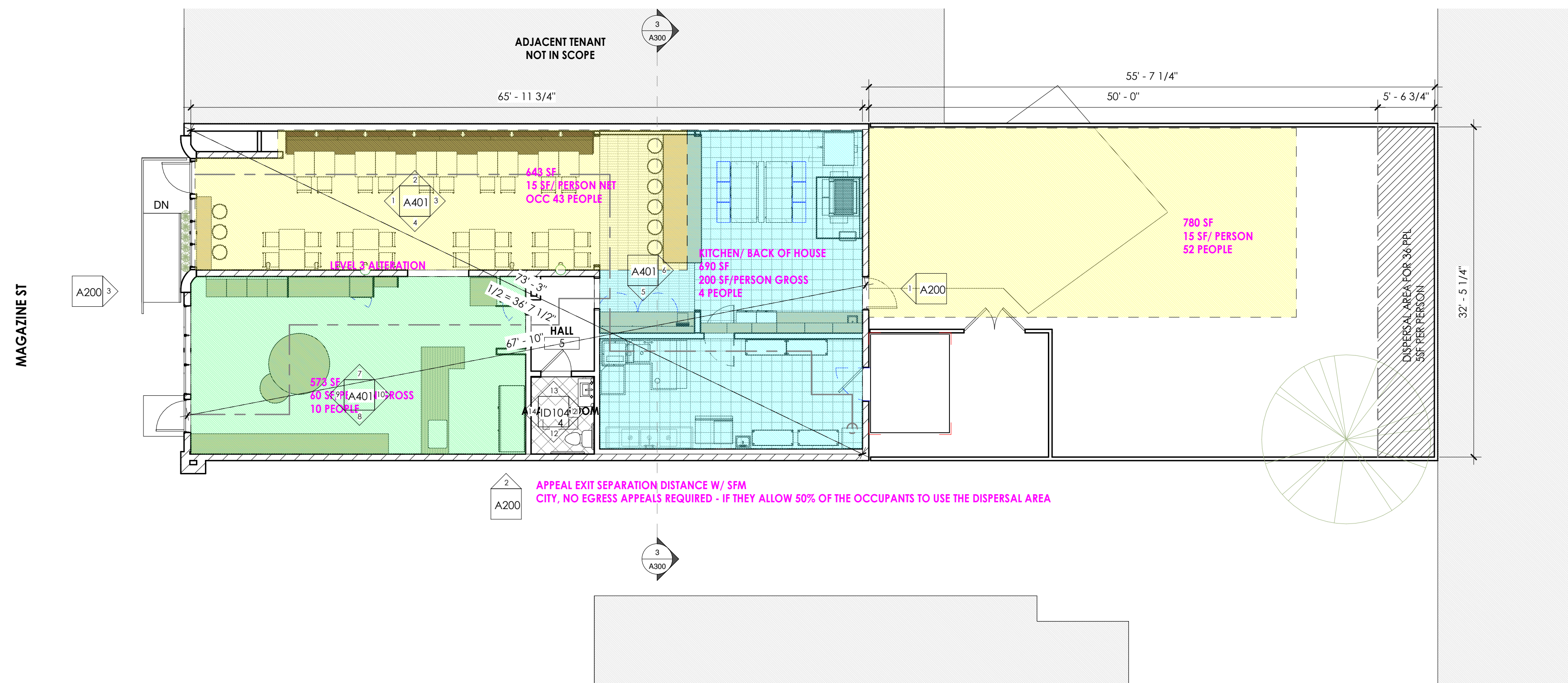
ELEVATOR REQUIREMENTS
 ADA ACT TITLE III 5.4000
 ELEVATOR NOT REQUIRED PER EXEMPTION FOR LESS THAN 3 STORIES.

PLUMBING FIXTURES

Fixtures	Required	Provided
Toilets (1/500 M & F)	1	1 (UNISEX ADA)
Sinks (1/750 M & F)	1	1
Service Sink	1	1

OCCUPANT LOAD SCHEDULE BY ROOM

No.	Area	Name	Occupancy	Area Per Occupant	Area Type	Occupant Load
1	562 SF	ENTRY/ MERCH	MERCANTILE	60 SF		10
10	620 SF	DINING AREA	KITCHEN	15 SF		42
2	279 SF	DISH	KITCHEN	200 SF		2
3	Not Placed	STORAGE/ ICE	KITCHEN	200 SF		
4	46 SF	ADA RESTROOM	N/A			
5	56 SF	HALL	N/A			
6	393 SF	KITCHEN	KITCHEN	200 SF		2
7	Not Placed	DATA				
Grand total:						56



② LEVEL 01 LS PLAN
 1/8" = 1'-0"

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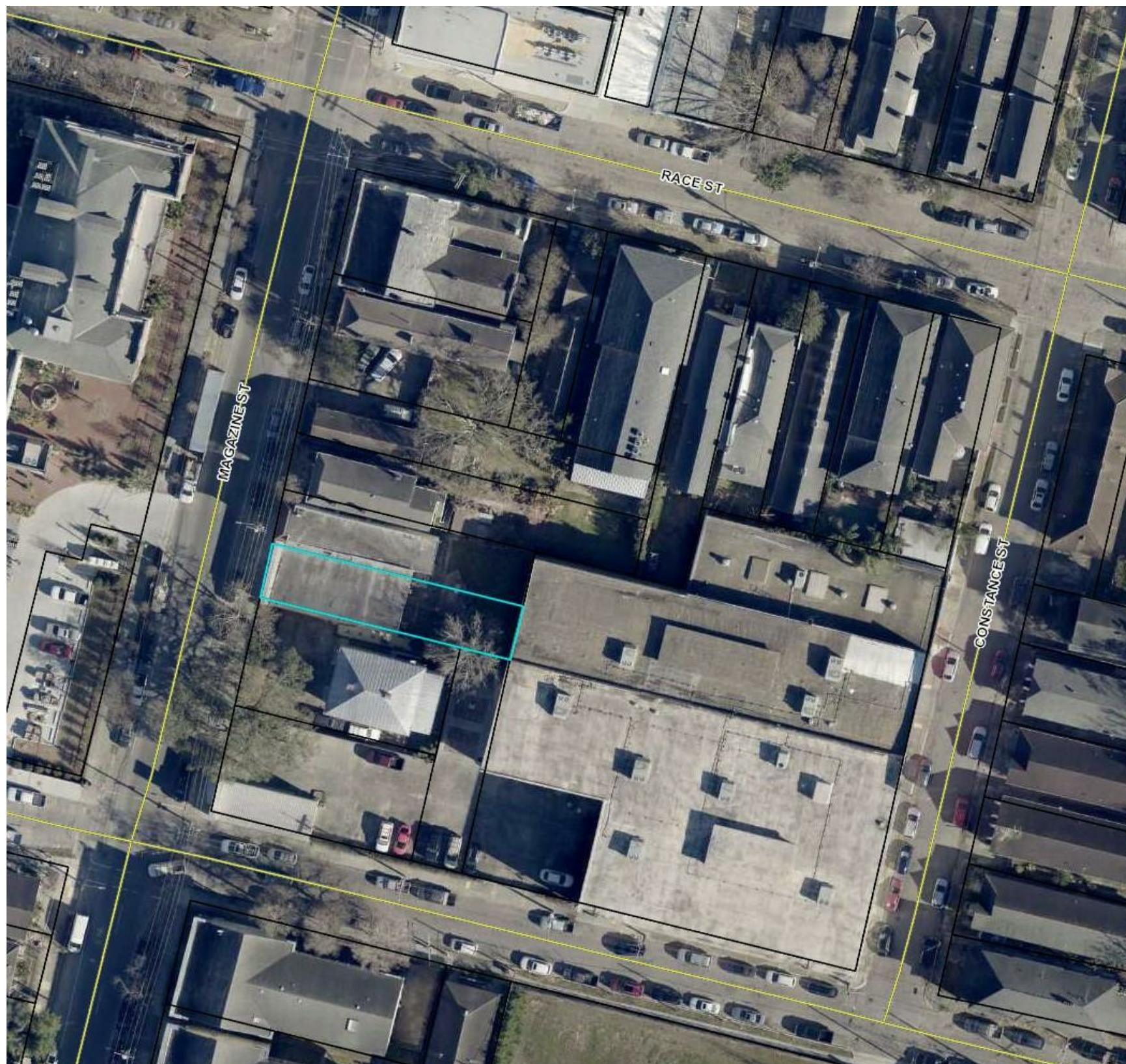
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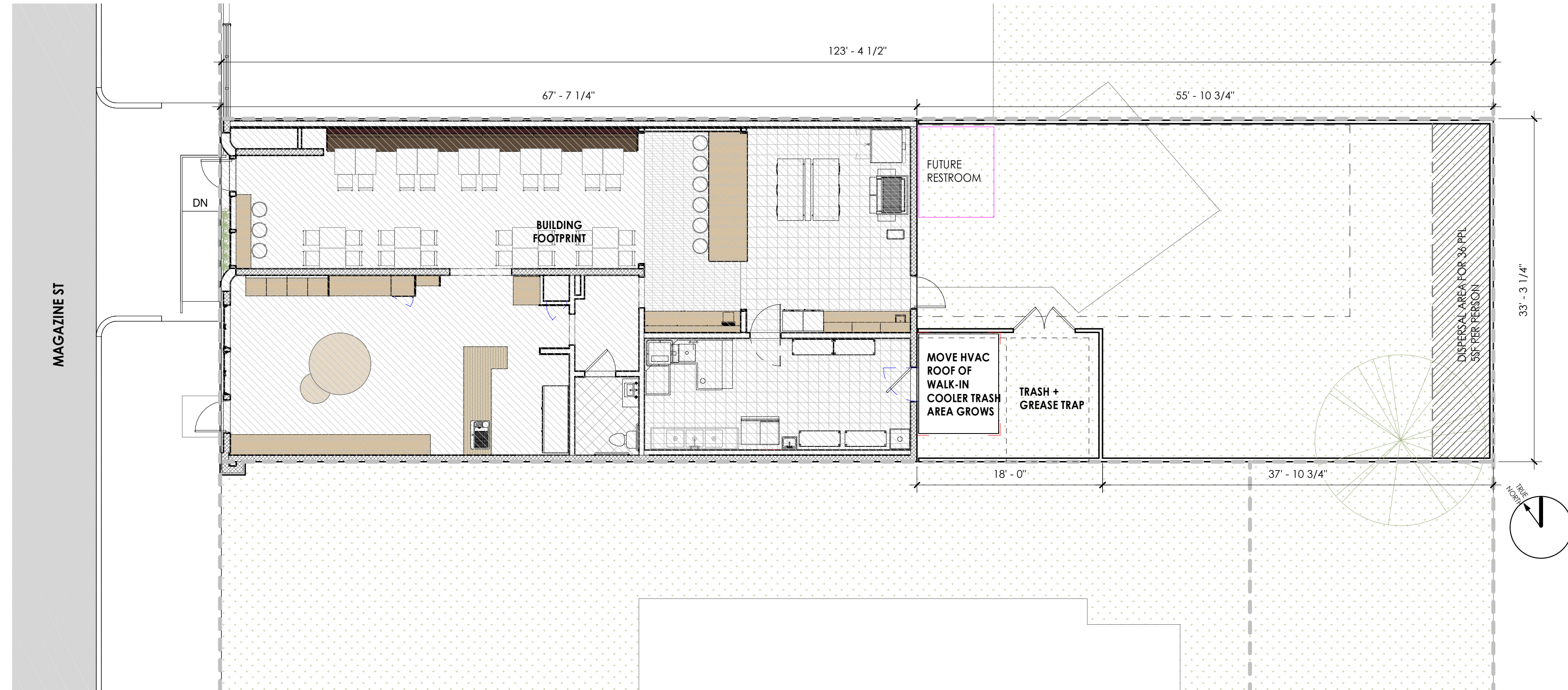
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LIFE SAFETY PLANS

A003



VICINITY PLAN



SITE PLAN
1/8" = 1'-0"

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SITE PLAN

A100

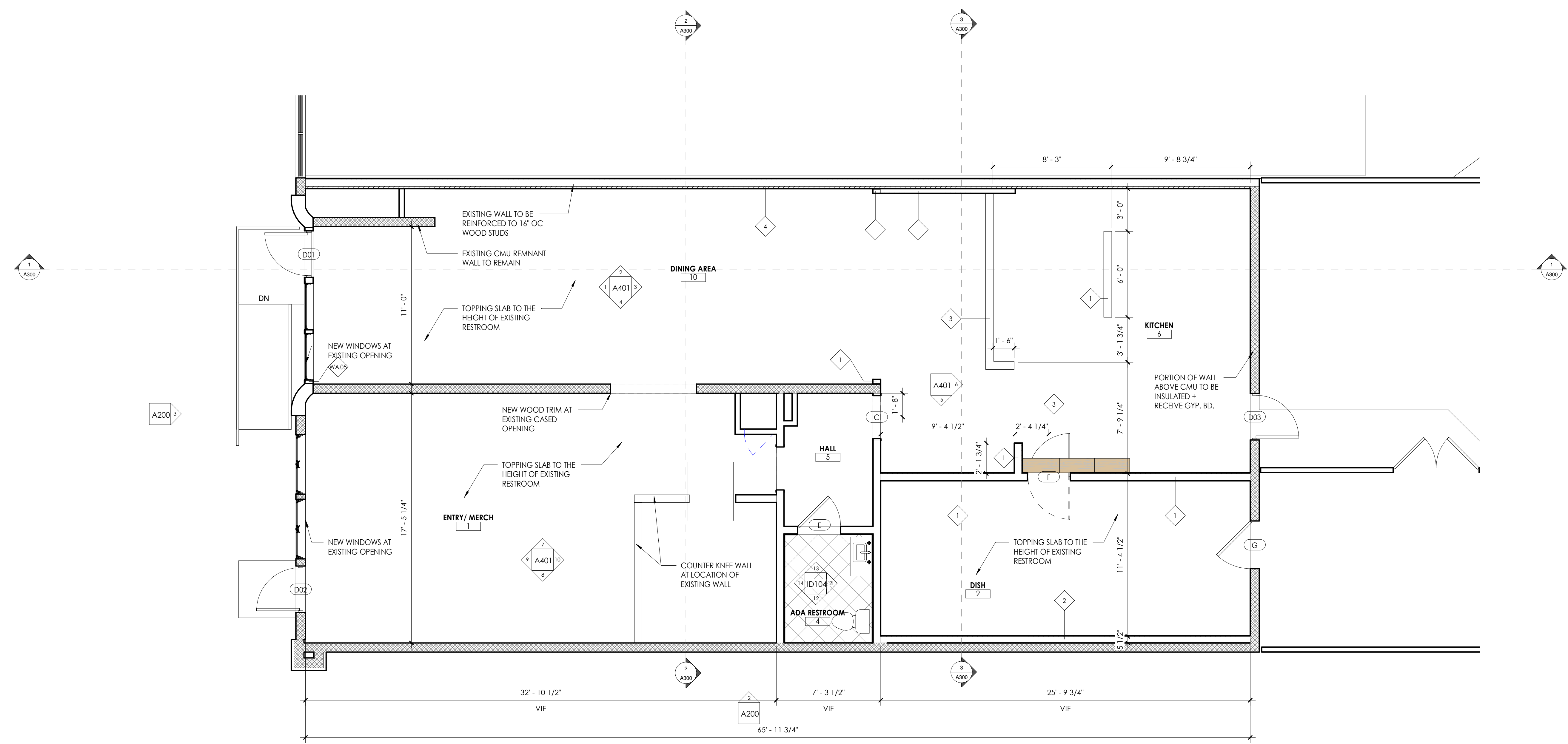
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CONSTRUCTION PLAN

A101



① CONSTRUCTION PLAN
 1/4" = 1'-0"

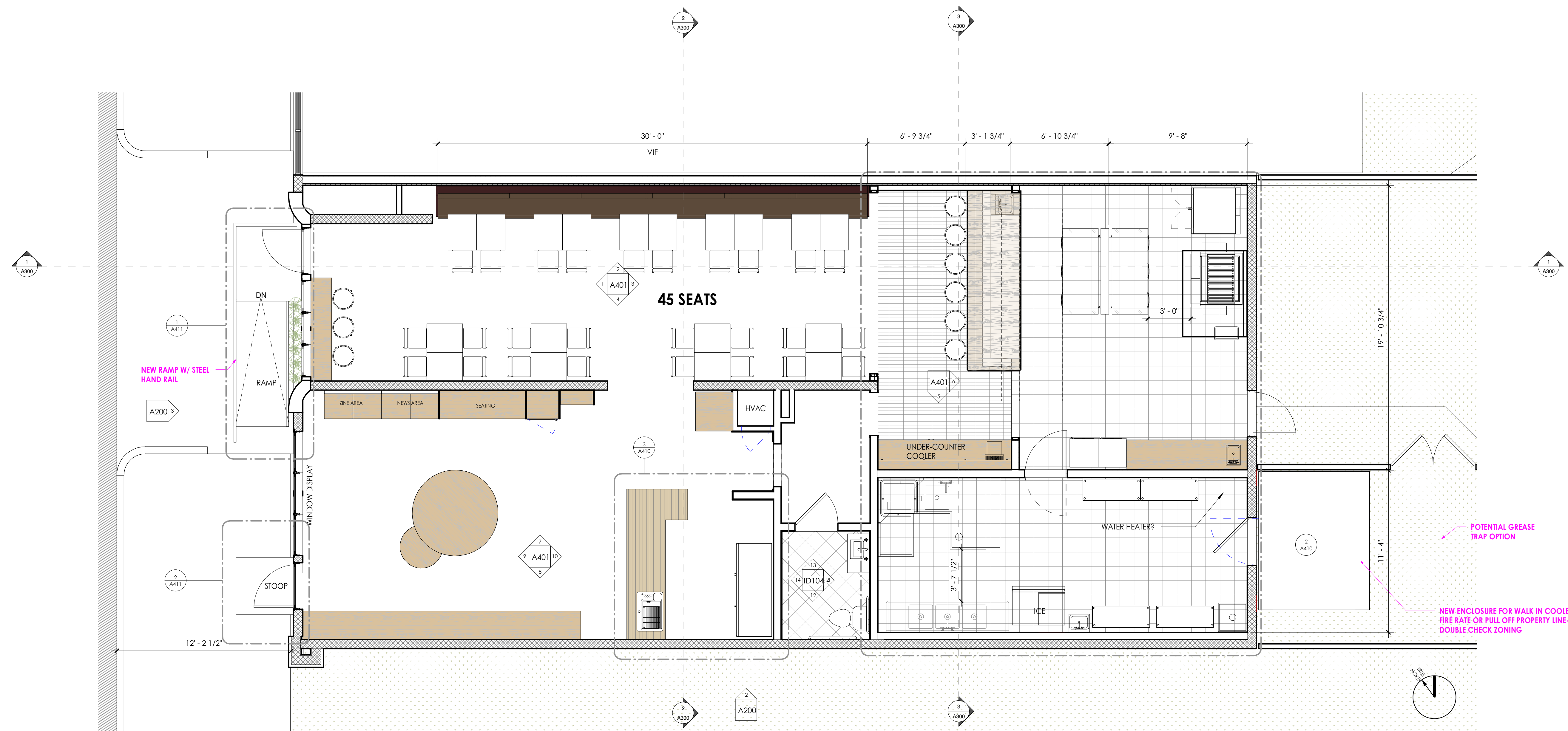
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FIRST FLOOR
 DESIGN PLAN

A102



② LEVEL 01 NEW (4.63')
 1/4" = 1'-0"

ELECTRICAL SYMBOLS

- 110 DUPLEX RECEPTACLE
- GFI DUPLEX RECEPTACLE
- EXTERIOR DUPLEX RECEPTACLE
- 110 QUAD RECEPTACLE, ISOLATED GROUND
- APPLIANCE / EQUIP. RECEPTACLE
- DUPLEX RECEPTACLE, FLOOR UNIT
- SWITCH, SINGLE POLE
- SWITCH, 3 WAY
- SWITCH, DIMMER
- SWITCH, OCCUPANCY SENSOR
- SWITCH, DIMMABLE OCCUPANCY SENSOR
- SWITCH, AIR OR COMPRESSION

LIGHTING SYMBOLS

- 3" RECESSED
- 4" RECESSED
- 6" RECESSED
- WALL MOUNT
- FLOOD
- LIT SIGNAGE
- RECESSED SHOWER, WATER PROOF
- CEILING MOUNTED
- DIRECTIONAL, EXAMPLE:
- PENDANT, CEILING MOUNTED
- MONO-POINT
- TRACK LIGHTING
- HEAT LAMP
- UTILITY FIXTURE: LED; REUSE EXISTING FIXTURES IN SPACE
- LED PANEL
- HI / LO BAY LED
- LED STRIP

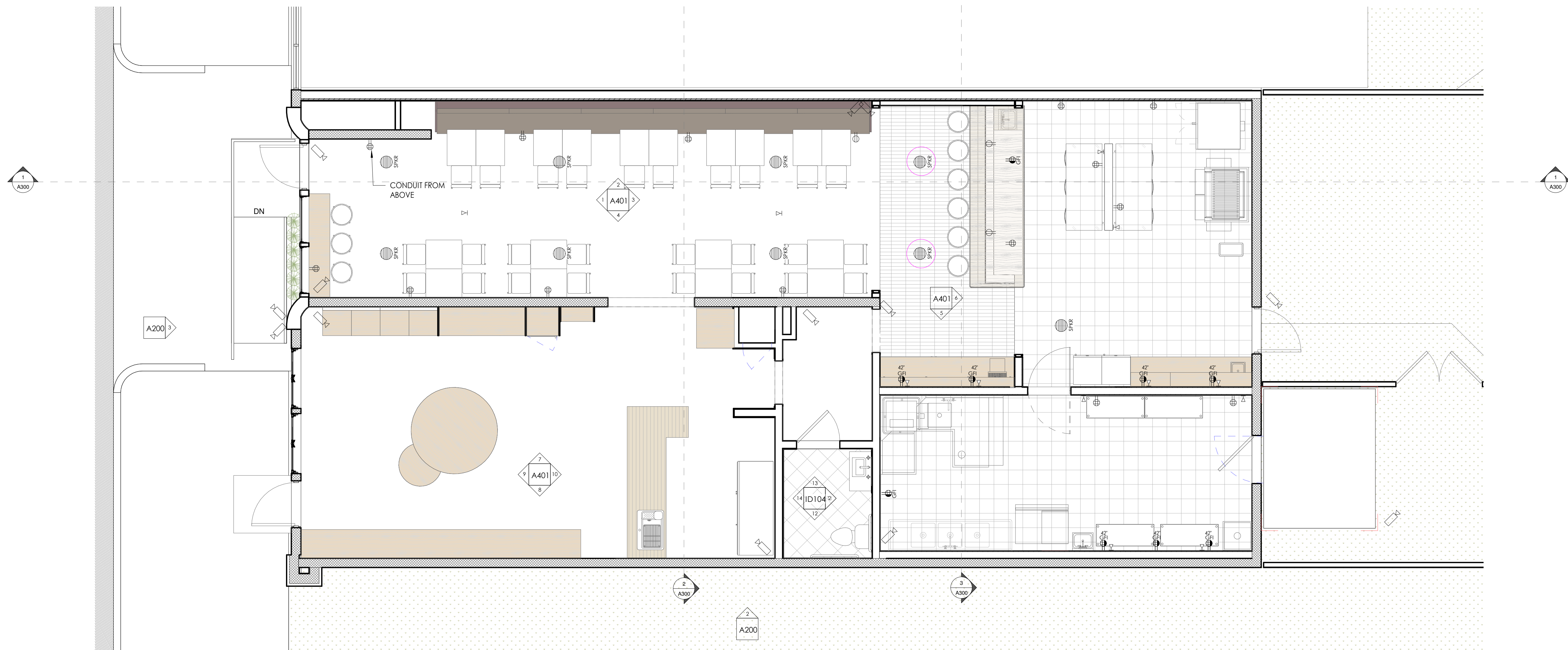
MECH SYMBOLS

- EXHAUST FAN
- EXHAUST FAN W/ HUMIDISTAT
- WALL MOUNTED OSCILLATING FAN
- HVAC T-STAT LOCATION
- HVAC SUPPLY IN WALL
- HVAC RETURN IN WALL
- HVAC SUPPLY IN CLG
- HVAC RETURN IN CLG
- DIRECTIONAL AIR FLOW
- COMBO CEILING FAN / LIGHT
- VRF CEILING CASSETTE
- VRF WALL MOUNT CASSETTE

AV / LOW VOLT

- CEILING MOUNTED SPEAKER, EXTERIOR AS NOTED
- TV COAXIAL
- LIGHTING SCENE SELECTOR
- DOME SECURITY CAMERA
- DATA POINT
- DATA / PHONE (DOUBLE DATA JACK)
- SMOKE DETECTOR
- SMOKE & CARBON DETECTOR

(((SYSTEMS LEGEND power and low volt
1/4" = 1'-0"



① 01 Coordination
1/4" = 1'-0"

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POWER + LOW
VOLT

A150

CEILING TYPES

CA.01: VINYL LAY IN TILE
 ARMSTRONG CLEAN ROOM
 SIZE: 24x24
 COLOR: WHITE
 SUSPENSION: PRELUDE 15/16" EXPOSED TEE SYSTEM
 SUSPENSION COLOR: WHITE
 OR EQUAL- ANY BUDGET ALT ACCEPTABLE

CA.02: BUDGET ACOUSTIC LAY IN TILE
 ARMSTRONG FISSED 755 LAY-IN
 SIZE: 24x48
 SUSPENSION: PRELUDE ML 15/16" EXPOSED TEE
 SUSPENSION COLOR: WHITE
 OR EQUAL- ANY BUDGET ALT ACCEPTABLE

CA.03: GYPSUM
 5/8" GYPSUM BOARD
 SUSPENSION: ARMSTRONG DRYWALL GRID
 SOFFITS: ARMSTRONG DRYWALL GRID OR QUICKSTIX
 OR EQUAL

DRAWING NOTES

1. ALL RECESSED LIGHTING IN WET LOCATIONS TO BE WET RATED.
2. ALL OUTLETS IN WET LOCATIONS TO BE GFI PER CODE.
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN MEP DRAWINGS AND ARCHITECTURAL DRAWINGS.
4. WHERE APPLICABLE, LOW VOLTAGE LANDSCAPE OR POOL LIGHTING AND EQUIPMENT PROVISIONS SHALL BE PER LANDSCAPE PLAND AND COORDINATED WITH OWNER.
5. PROVIDE ATTIC ACCESS AS REQUIRED PER IRC.

MOUNTING HEIGHTS

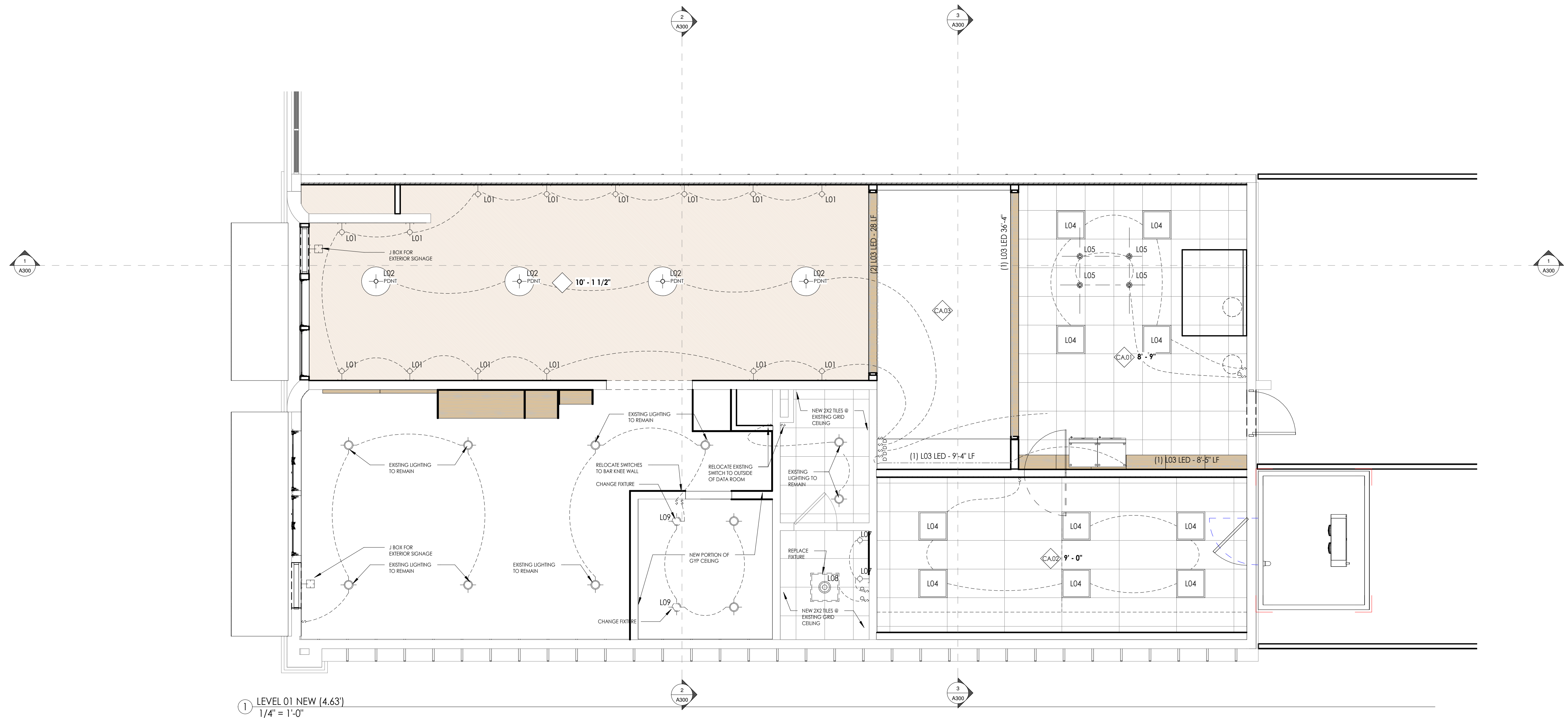
- 72" panel boards (top)
- 18" receptacles
- 42" counter height receptacles
- 24" exterior receptacles
- 26" garage receptacles
- 42" switches (centerline)
- 18" telephone outlets
- 18" data outlets
- 42" thermostat

ELECTRICAL NOTES

1. CONTRACTOR SHALL REFER TO BUILDING SPECIFICATIONS ISSUED BY THE ARCHITECT FOR THIS PORTION OF THE WORK.
2. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COMPLETE ELECTRICAL DISTRIBUTION SYSTEM AND EQUIPMENT CONNECTIONS TO HVAC AND OTHER EQUIPMENT SHOWN ON THIS SET OF THE DOCUMENTS. ALL WORKS SHALL BE IN ACCORDANCE WITH THE CURRENT GOVERNING CODE.
3. ALL INTERIOR ELECTRICAL RACEWAY SYSTEM IN EXPOSED STRUCTURE SHALL BE EMT. ALL INTERIOR ELECTRICAL WIRING SYSTEM IN CONCEALED WALL AND ABOVE CEILING SPACE MAY BE TYPE "MC" IN ACCORDANCE WITH NEC. EXTERIOR ELECTRICAL RACEWAY SYSTEM EXPOSED TO WEATHER SHALL BE RIGID GALVANIZED STEEL CONDUITS.
4. ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC.
5. ALL OUTDOOR HVAC AND SPECIALTY EQUIPMENT SHALL BE TERMINATED WITH LIQUID-TIGHT FLEXIBLE CONDUITS.
6. THIS CONTRACTOR SHALL PROVIDE LINE VOLTAGE POWER CONNECTION TO ALL MECHANICAL EQUIPMENT AS SHOWN ON ELECTRICAL DRAWINGS OR AS REQUIRED BY MECHANICAL DIVISION. VERIFY ALL CONNECTIONS WITH EQUIPMENT SUPPLIER.
7. ALL EMPTY CONDUIT SHOWN ON THESE PLANS SHALL HAVE A 250 POUND RATED NYLON PULL STRING INSTALLED.

LIGHTING TYPES

- | | | |
|---|--|---|
| <p>L01
 WALL SCONCE, TBD FIXTURE W/ LED BULBS;
 HOLD \$300 ALLOWANCE PER FIXTURE</p> <p>L02
 DECORATIVE PENDANT LIGHT, TBD
 HOLD \$400 ALLOWANCE PER FIXTURE</p> <p>L03
 LED STRIP
 MFG: LUMINI
 MODEL: KBM-F-H-DW-IBPF-IBPF - RUN LENGTH SEE RCP
 MOUNTING BRACKET: MB-KBM-F-H-ST</p> | <p>L04
 2x2 LED PANEL
 MFG: WESTGATE
 2700K, 90 CRI
 MODEL: LPNG-2X2-4KLM-27K-D</p> <p>L05
 SPOT LIGHT
 MFG: WAC
 MODEL: PALOMA, MO-4023-930-BK-LENS-16-HCL
 2700K, 90 CRI, BLACK, HONEYCOMB LENSE</p> <p>L06
 DECORATIVE FIXTURE
 HOLD \$400 ALLOWANCE</p> | <p>L07
 WALL SCONCE - RESTROOM, TBD FIXTURE W/
 LED BULBS; HOLD \$300 ALLOWANCE PER
 FIXTURE</p> <p>L08
 SURFACE MOUNT - RESTROOM, TBD FIXTURE W/
 LED BULBS; HOLD \$300 ALLOWANCE PER
 FIXTURE</p> |
|---|--|---|



1 LEVEL 01 NEW (4.63)
 1/4" = 1'-0"

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FIRST FLOOR
 RCP

A151

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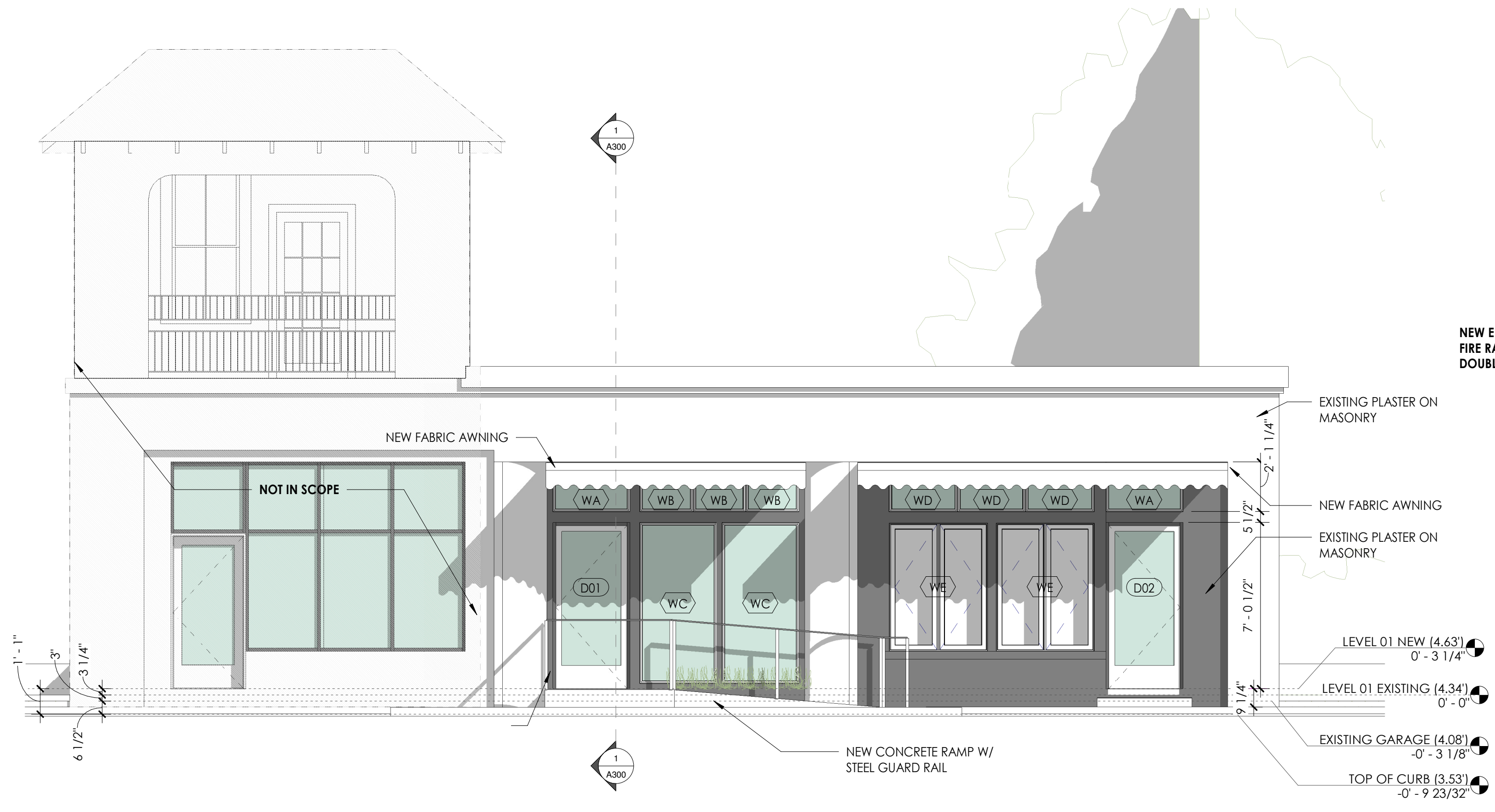
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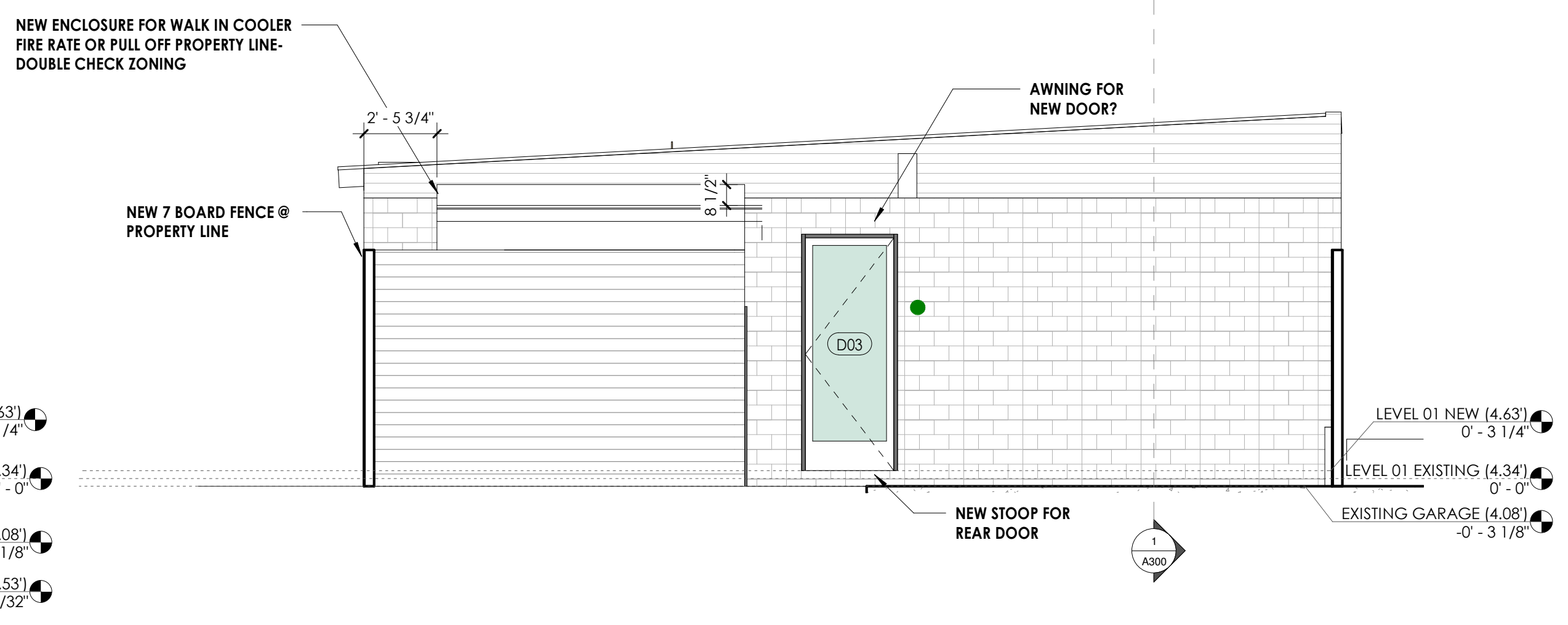
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ELEVATIONS

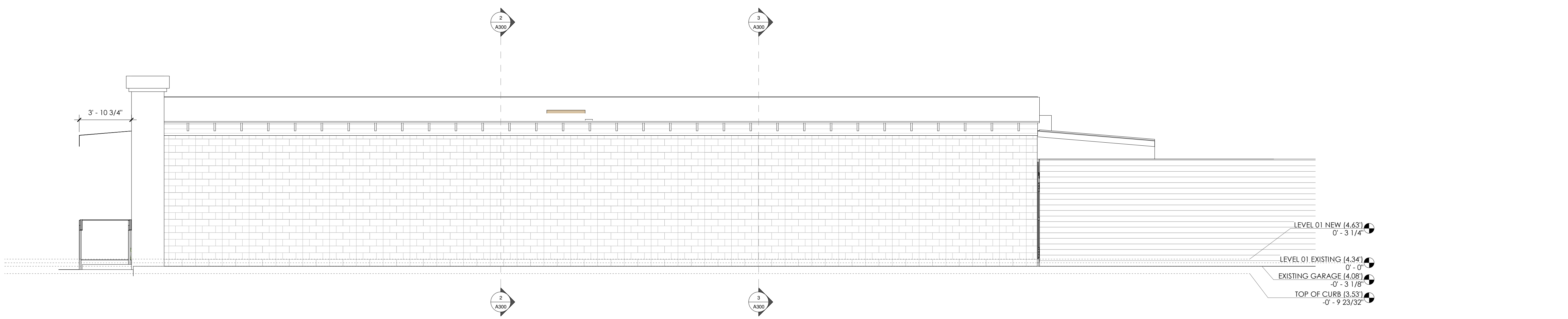
A200



3 WEST ELEVATION
 1/4" = 1'-0"



1 EAST ELEVATION
 1/4" = 1'-0"



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

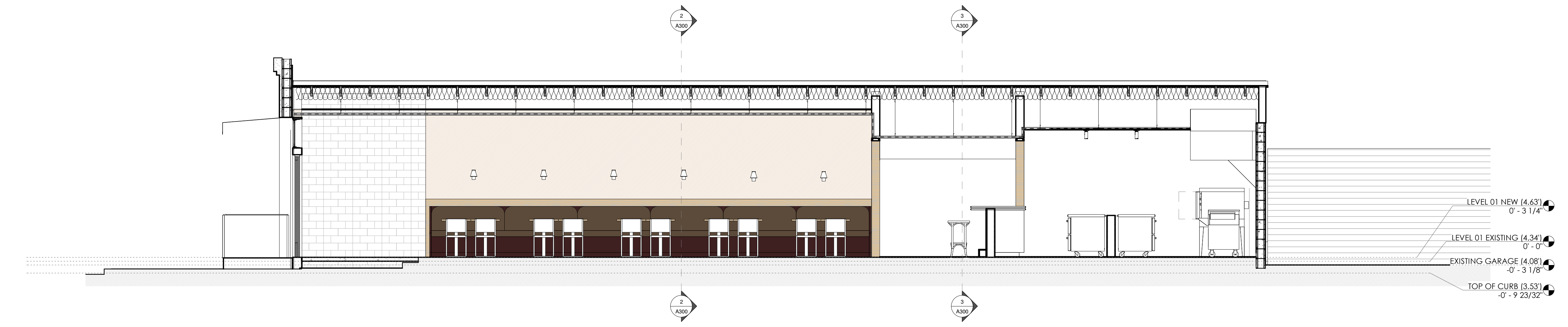
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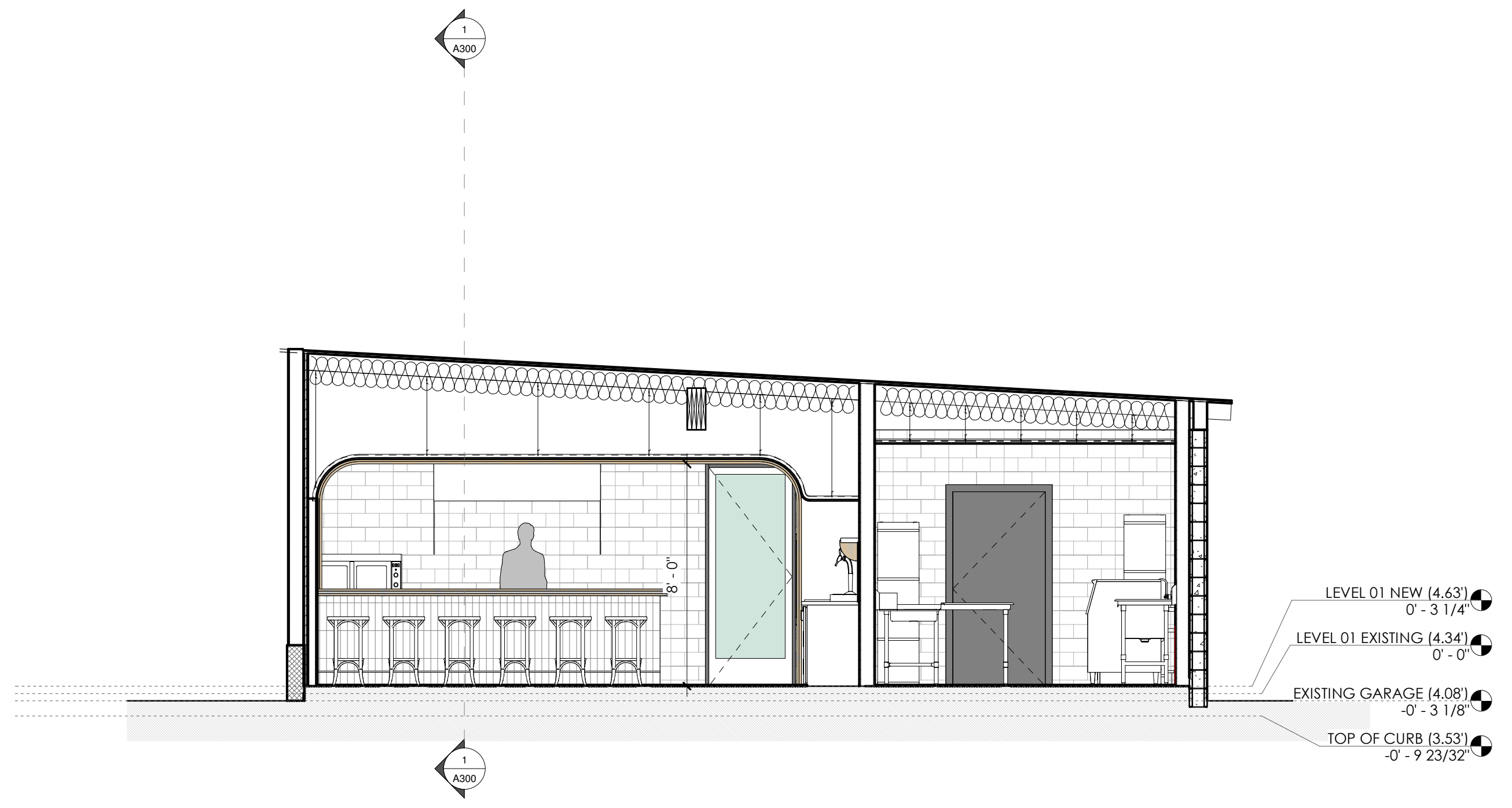
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SECTIONS

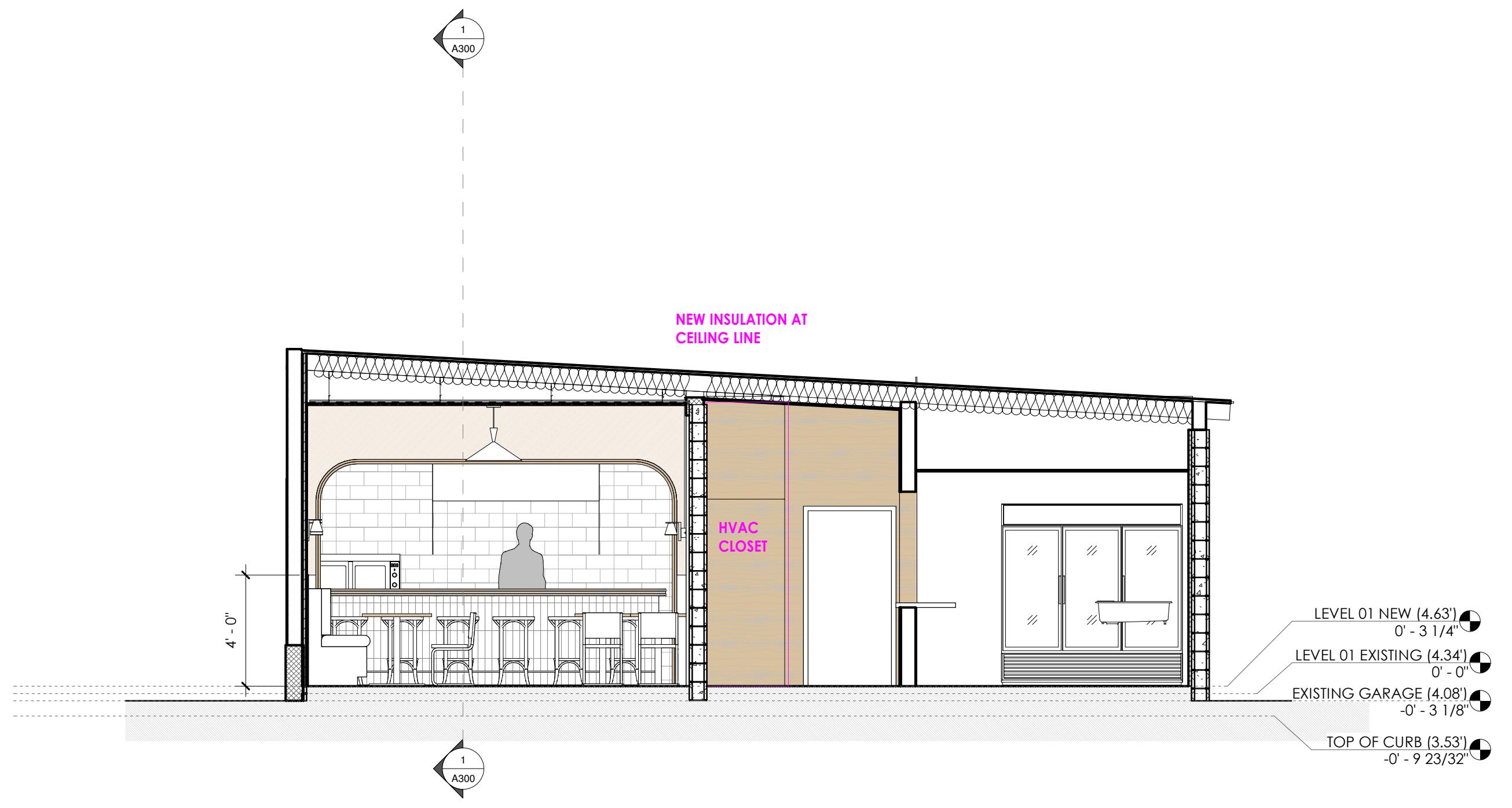
A300



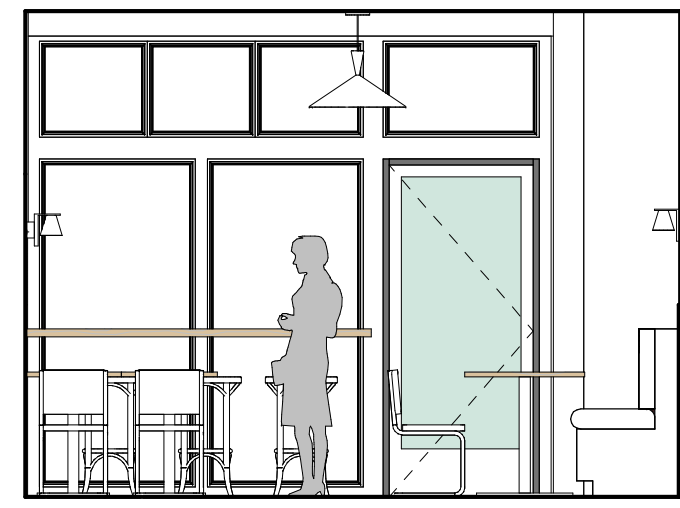
SECTION 1
 1/4" = 1'-0"



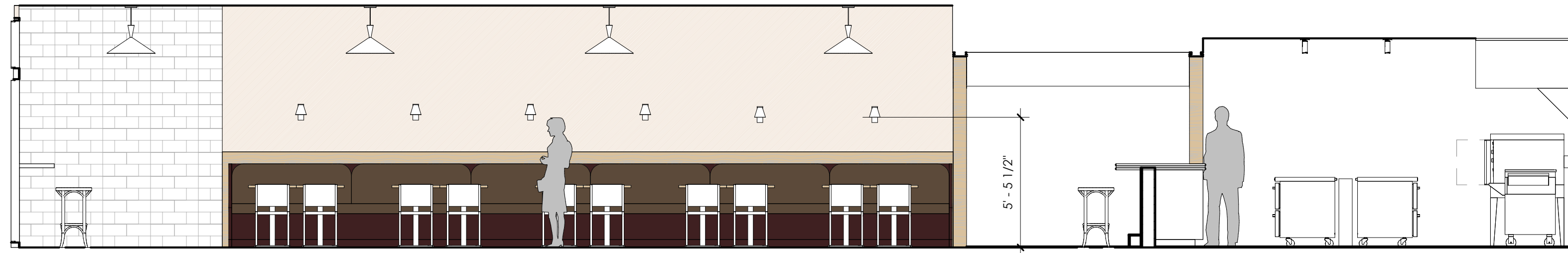
SECTION 4
 1/4" = 1'-0"



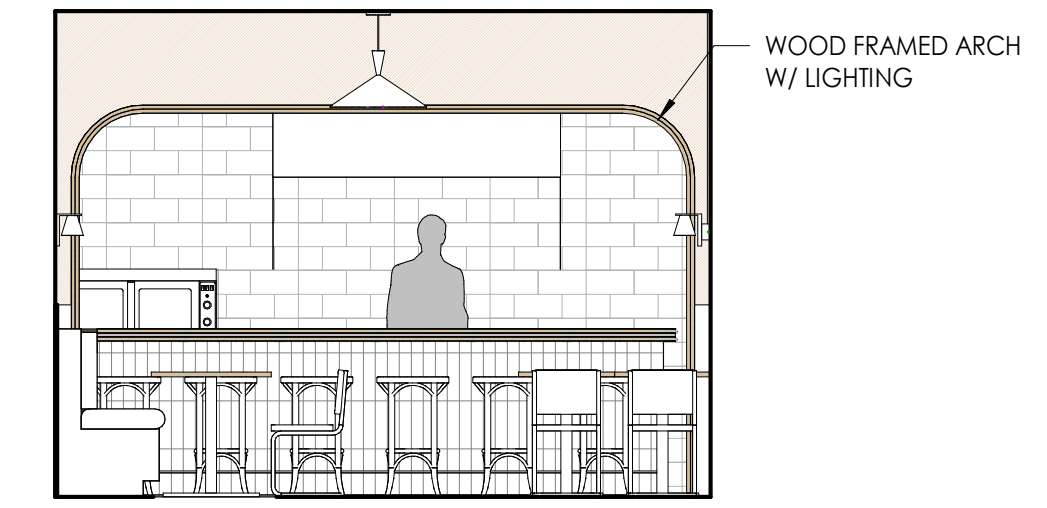
SECTION 2
 1/4" = 1'-0"



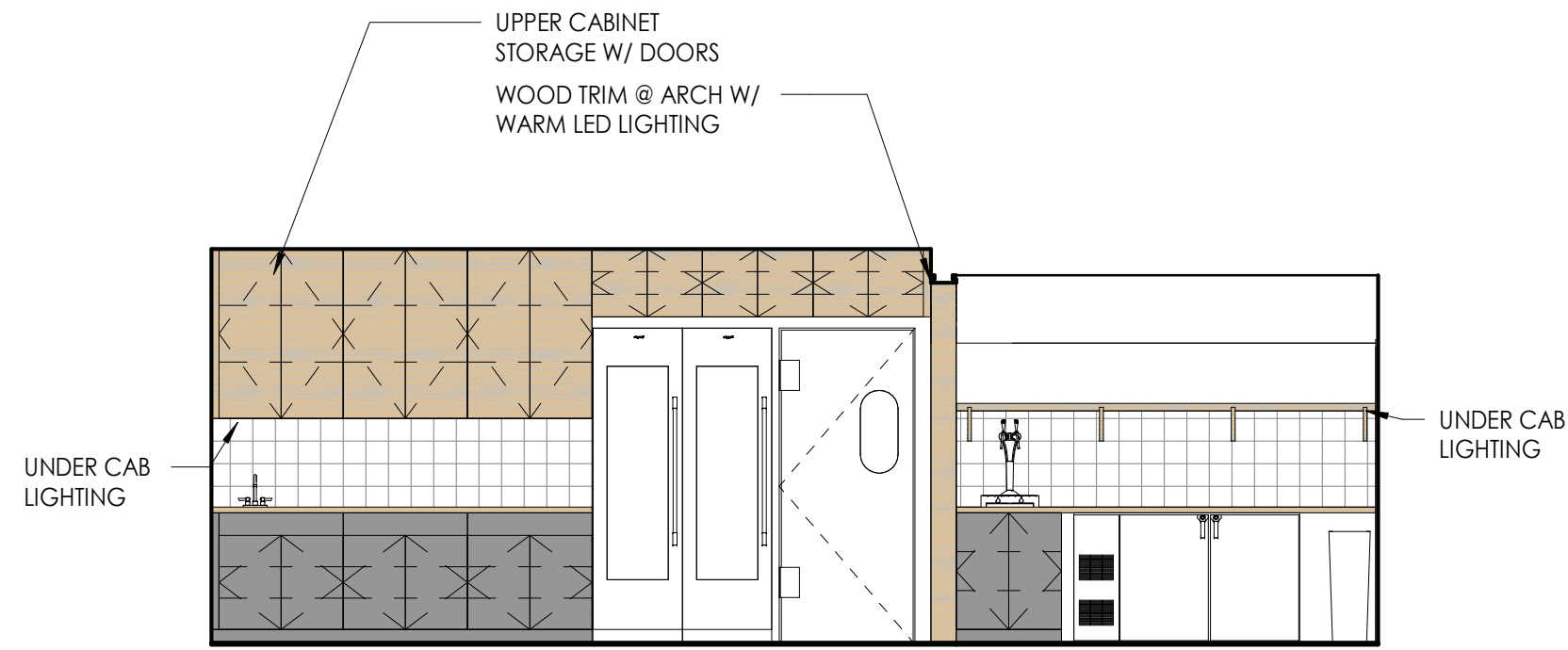
① Elevation 1 - b
1/4" = 1'-0"



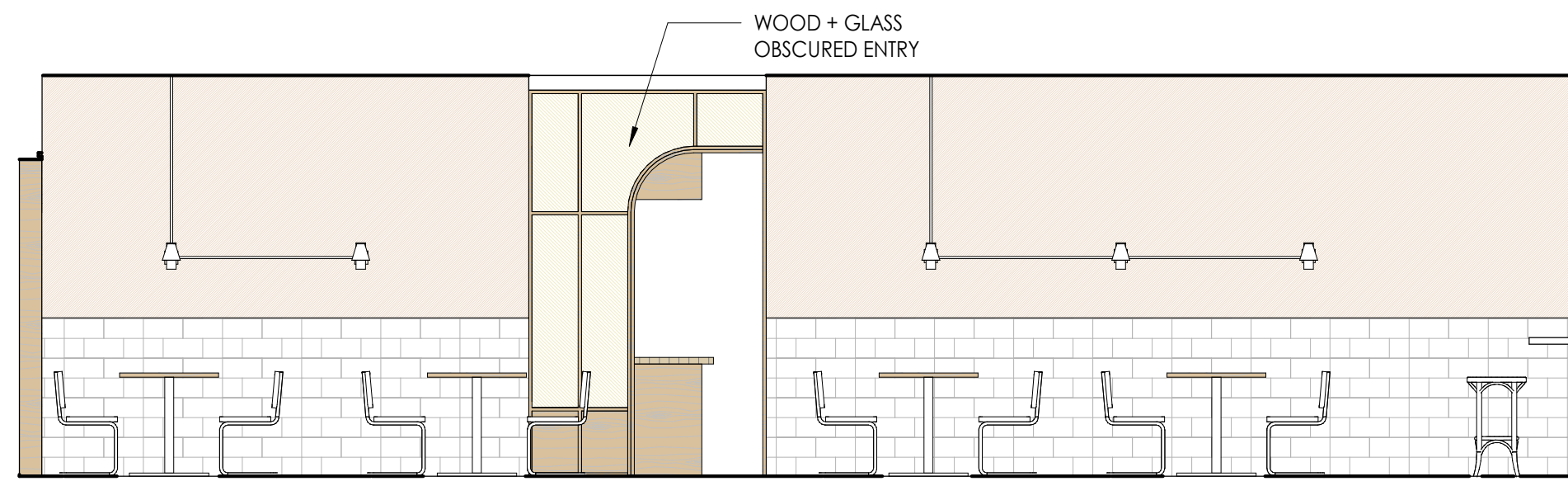
② Elevation 1 - c
1/4" = 1'-0"



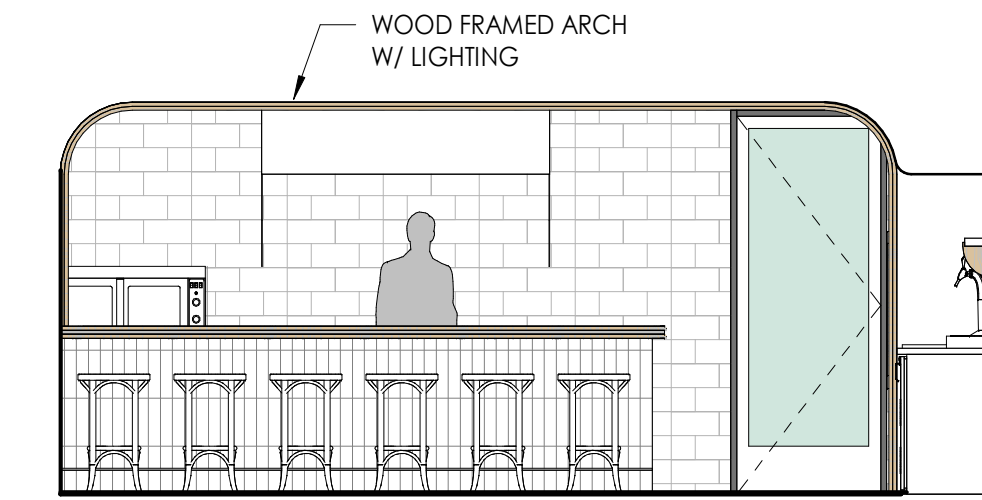
③ Elevation 1 - d
1/4" = 1'-0"



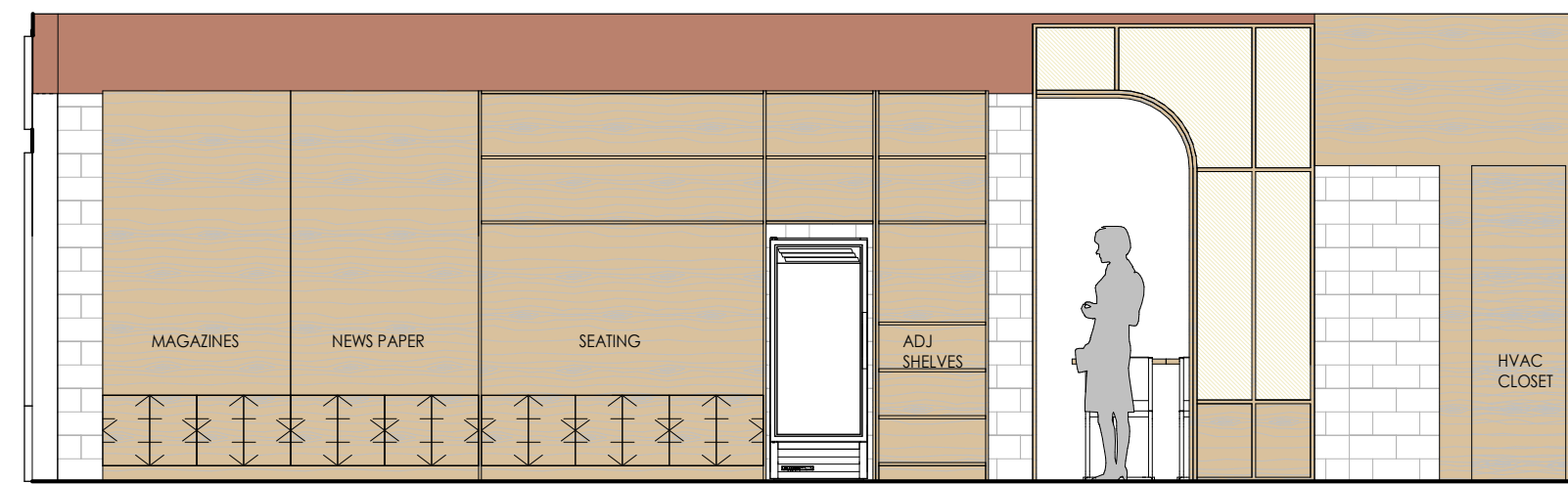
⑤ Elevation 2 - a
1/4" = 1'-0"



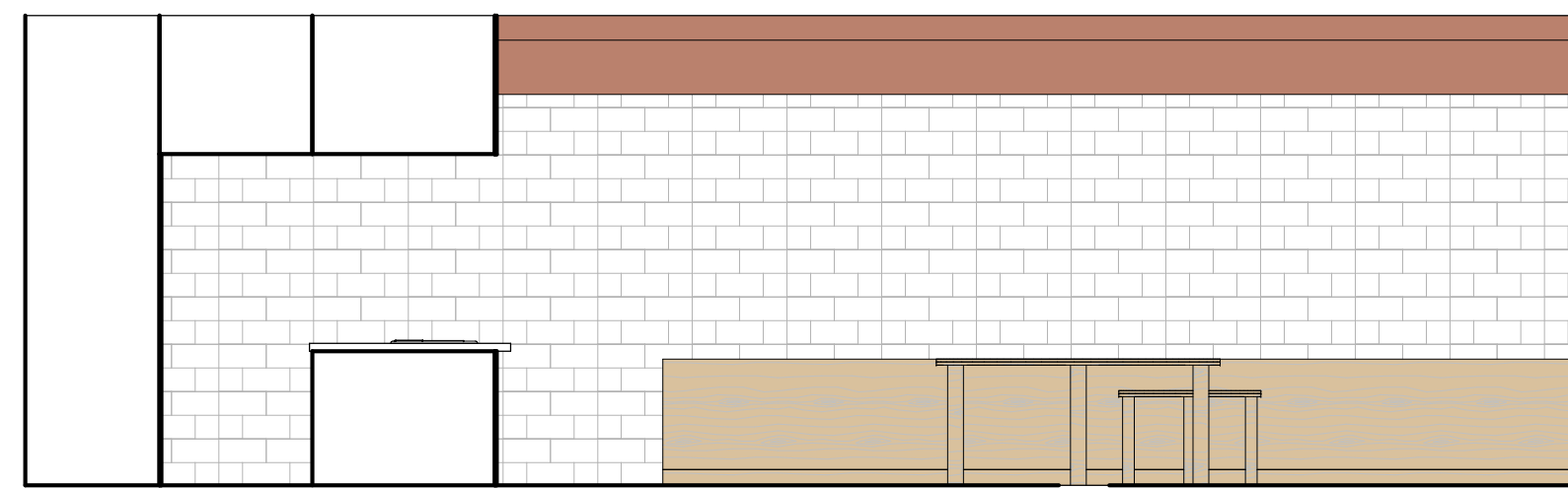
④ Elevation 1 - a
1/4" = 1'-0"



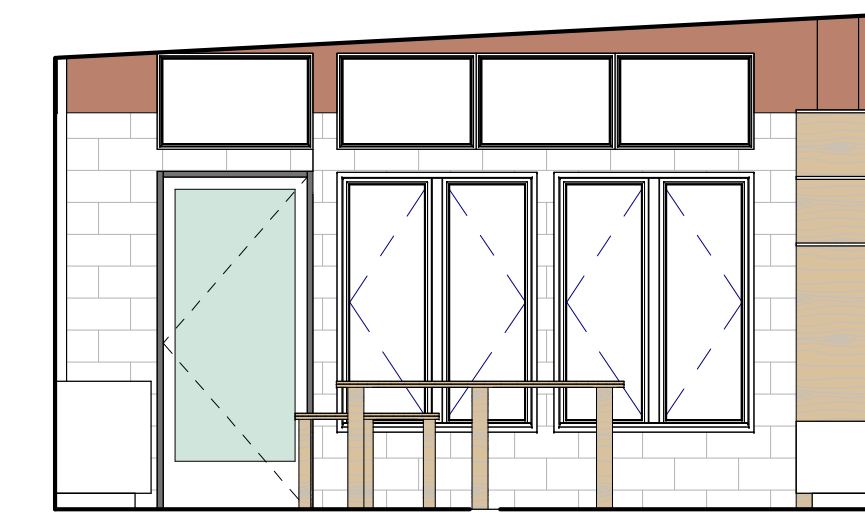
⑥ Elevation 2 - d
1/4" = 1'-0"



⑦ Elevation 3 - a
1/4" = 1'-0"



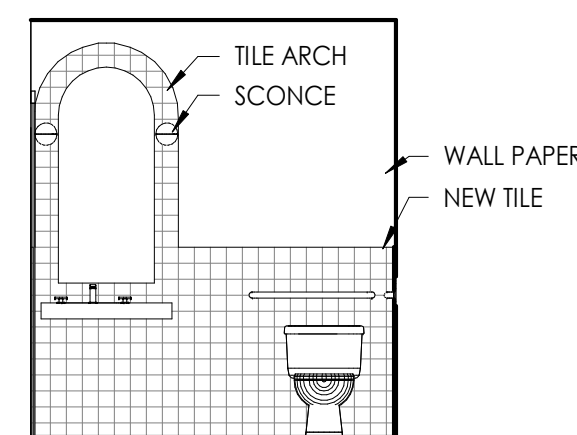
⑧ Elevation 3 - c
1/4" = 1'-0"



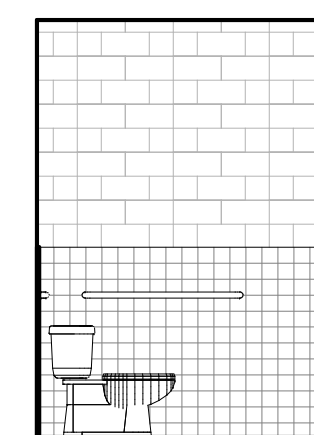
⑨ INT ELEV - WAYSIDES MAG FACING
1/4" = 1'-0"



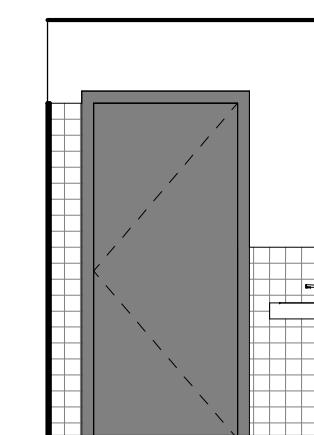
⑩ Elevation 2 - b
1/4" = 1'-0"



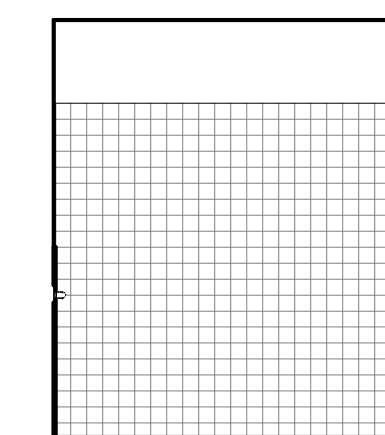
⑪ 1 - c
1/4" = 1'-0"



⑫ 2 - d
1/4" = 1'-0"



⑬ Elevation 3 - b
1/4" = 1'-0"



⑭ Elevation 4 - a
1/4" = 1'-0"

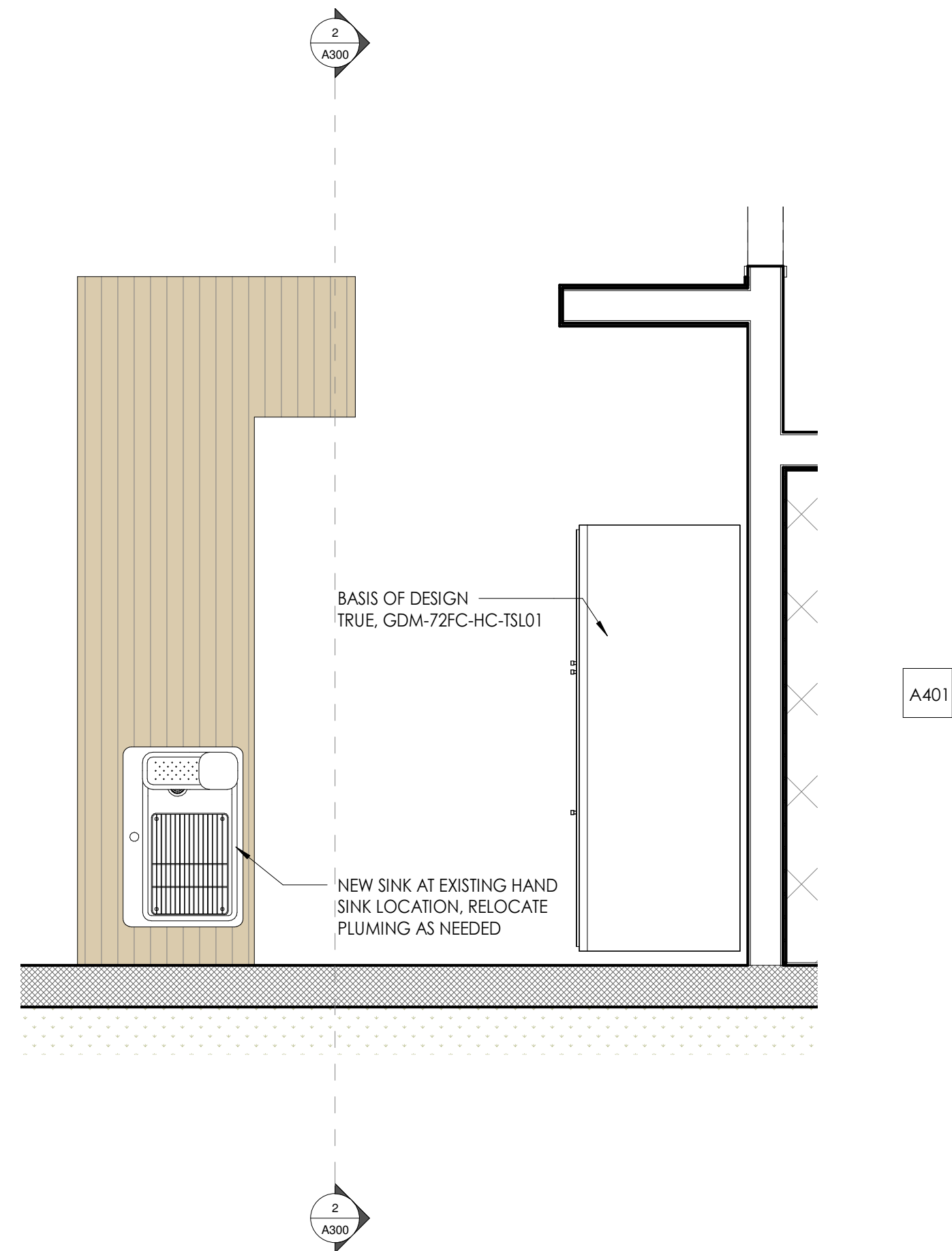
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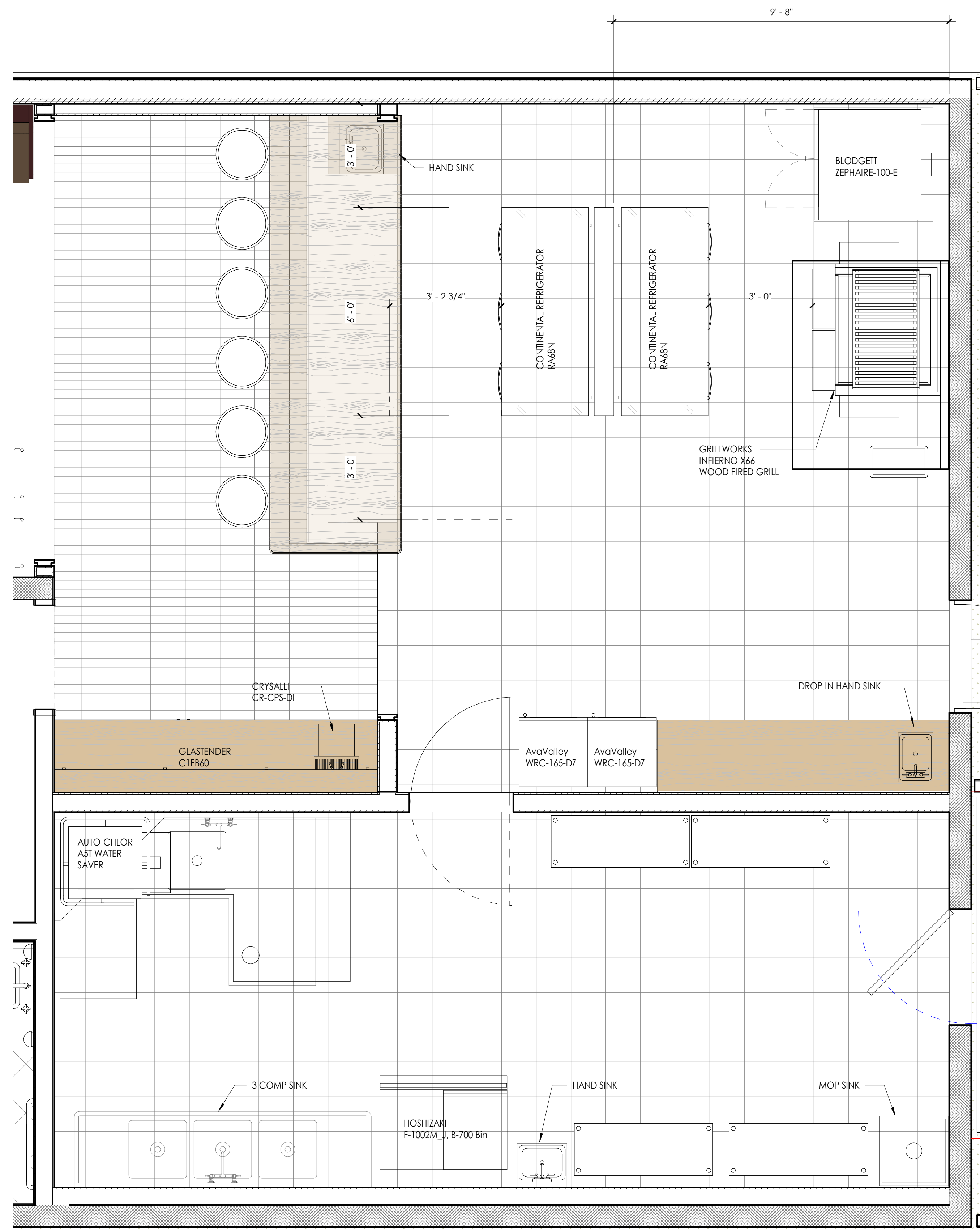
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INTERIOR
ELEVS

A401



3 LEVEL 01 NEW (4.63) - Callout 1
1/2" = 1'-0"



2 ENLARGED PLAN - BOH
1/2" = 1'-0"

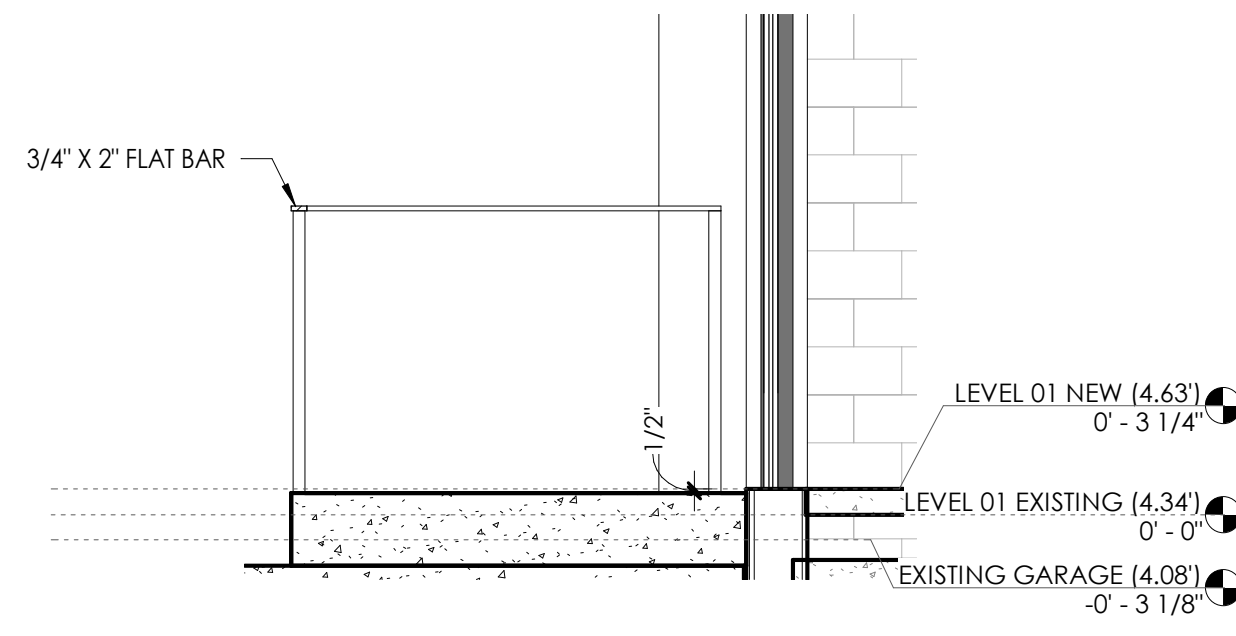
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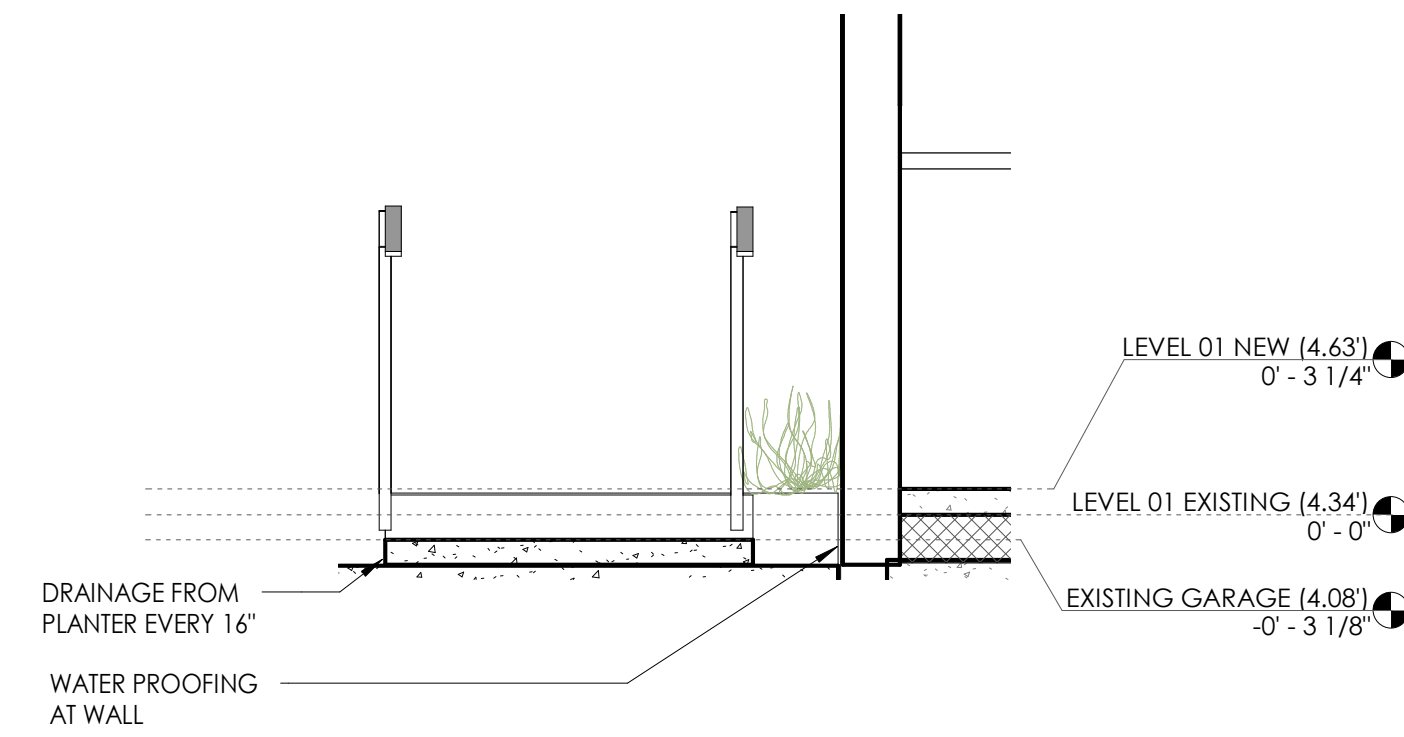
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ENLARGED
PLANS

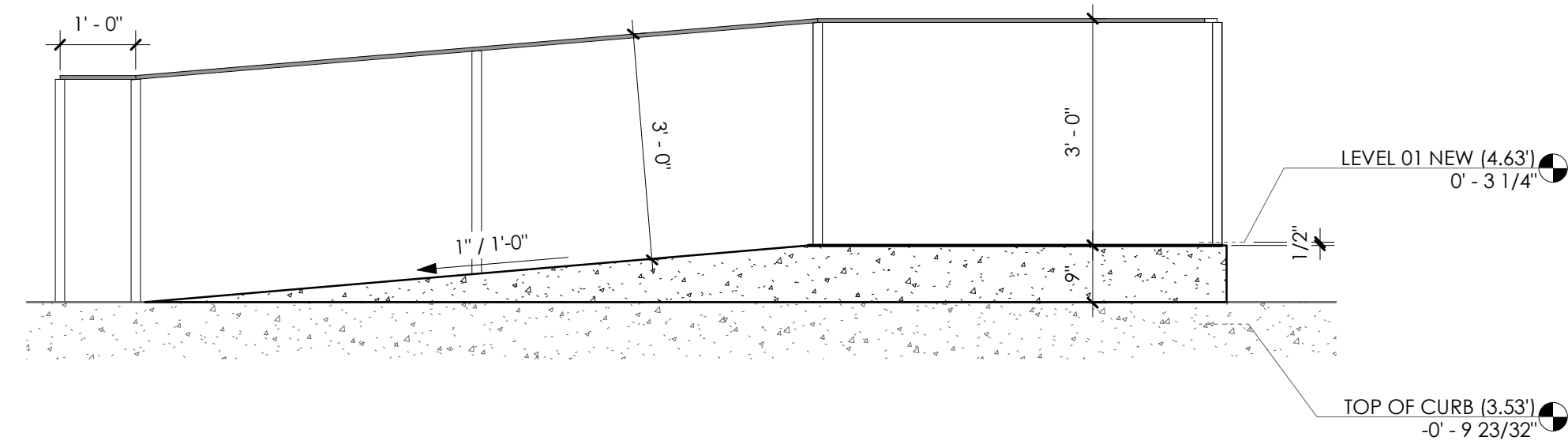
A410



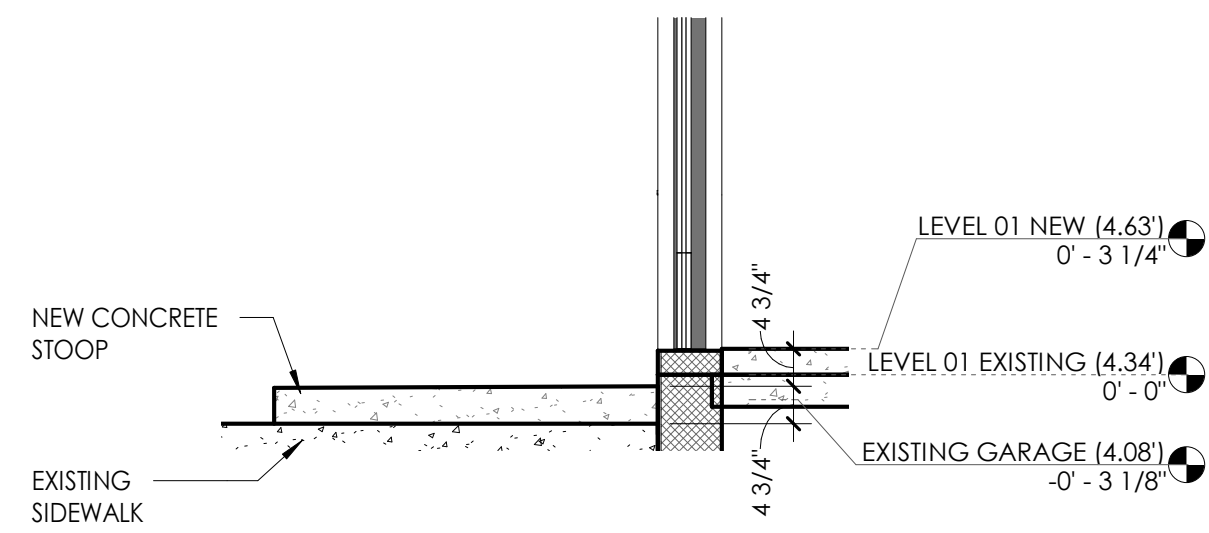
④ RAMP SECTION 2
1/2" = 1'-0"



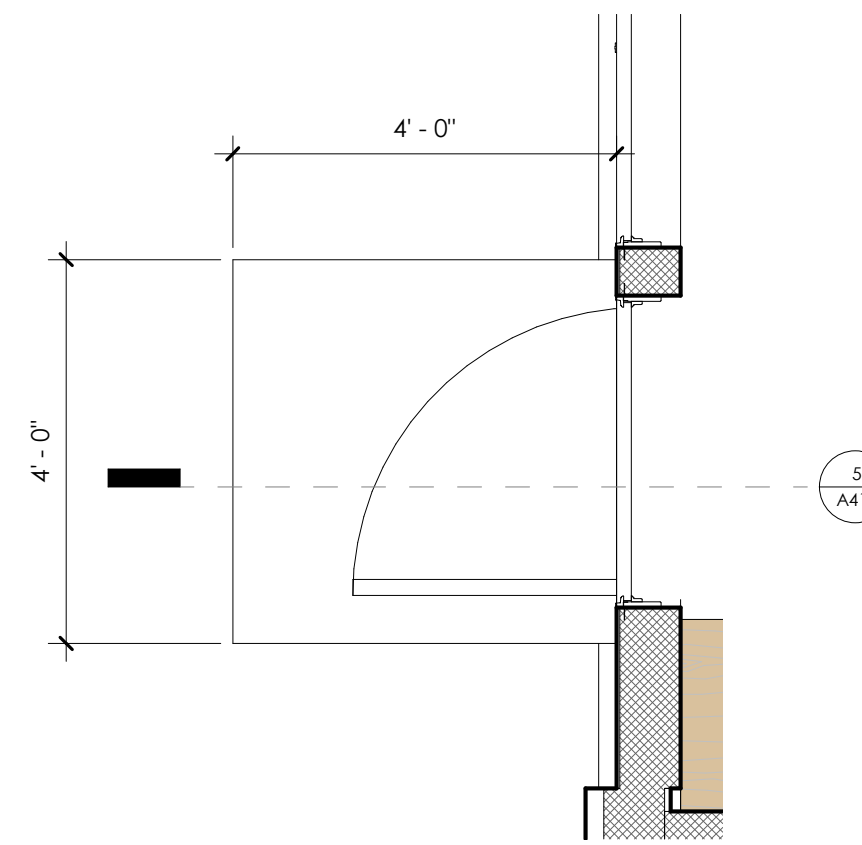
⑥ RAMP SECTION 1
1/2" = 1'-0"



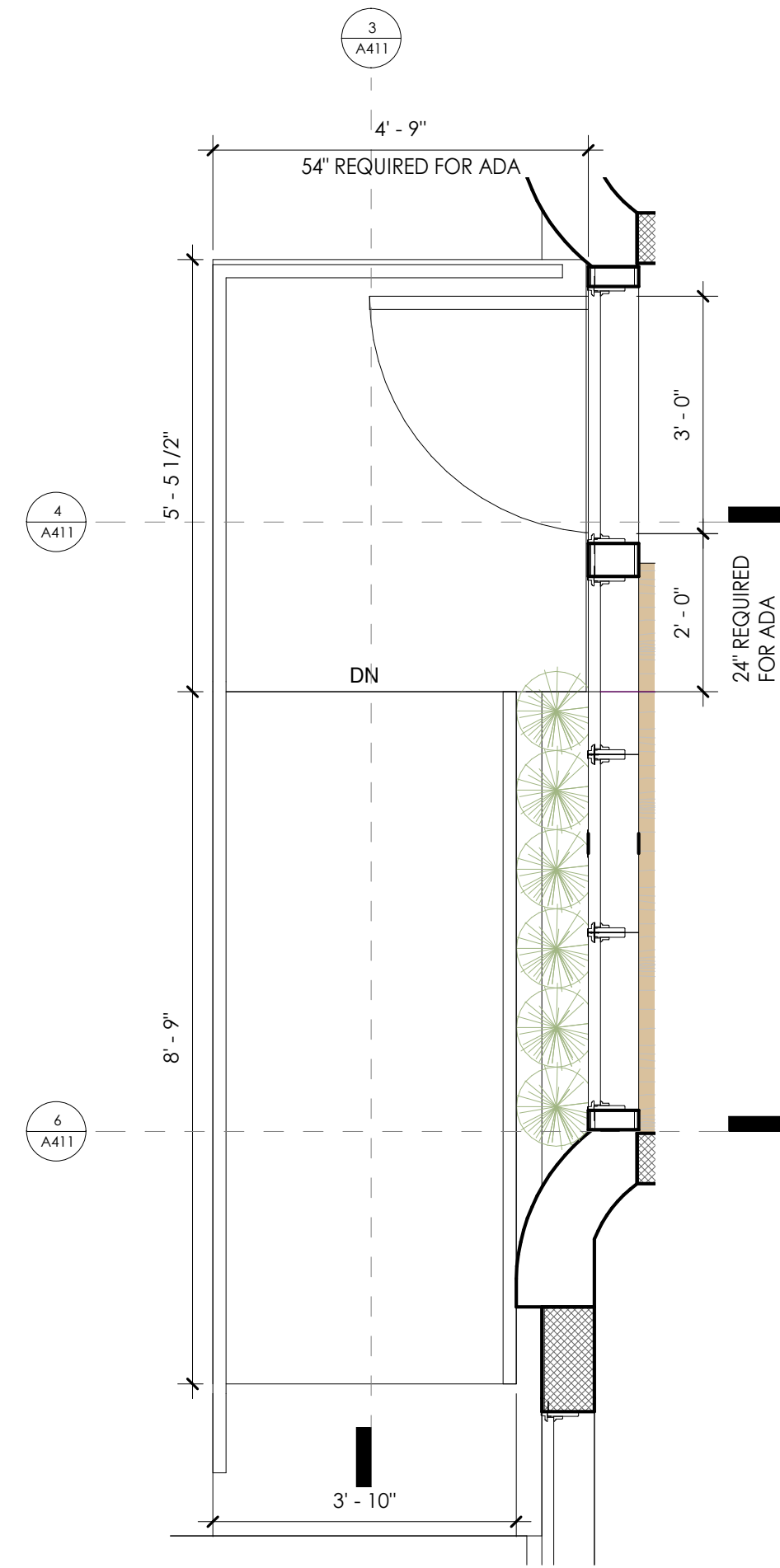
③ RAMP SECTION
1/2" = 1'-0"



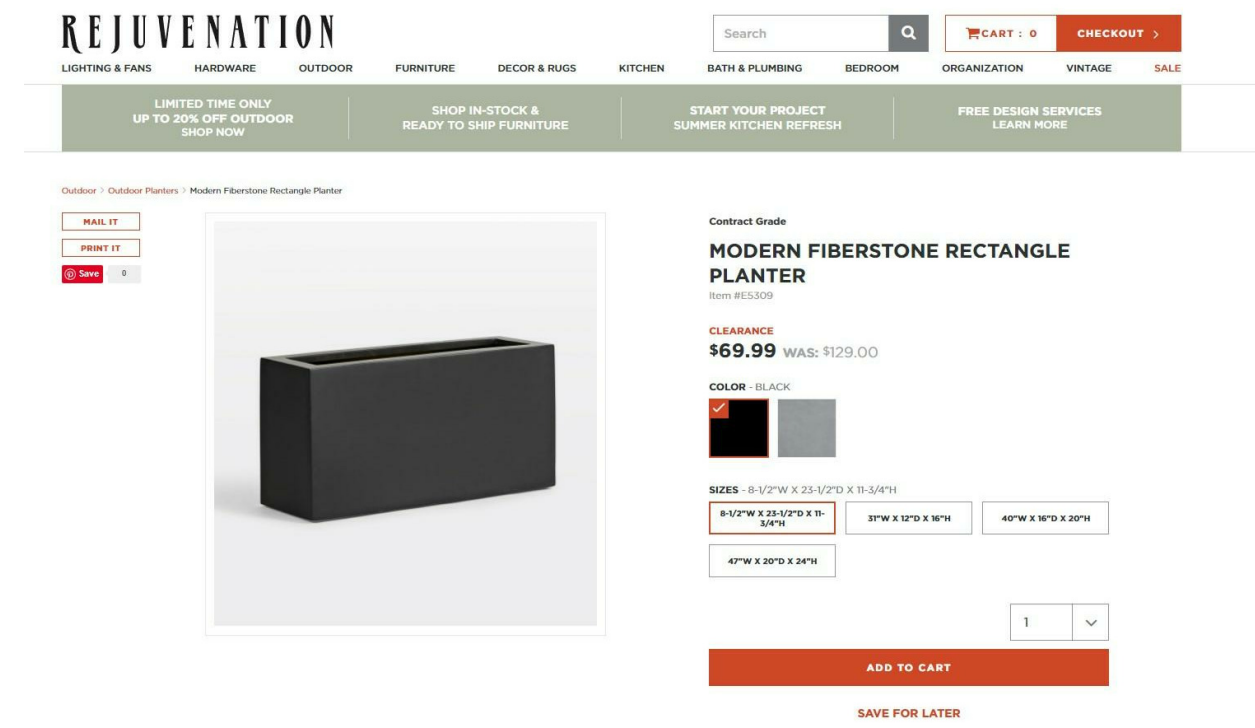
⑤ STOOP SECTION
1/2" = 1'-0"



② ENLARGED PLAN - STOOP
1/2" = 1'-0"



① ENLARGED PLAN - RAMP
1/2" = 1'-0"



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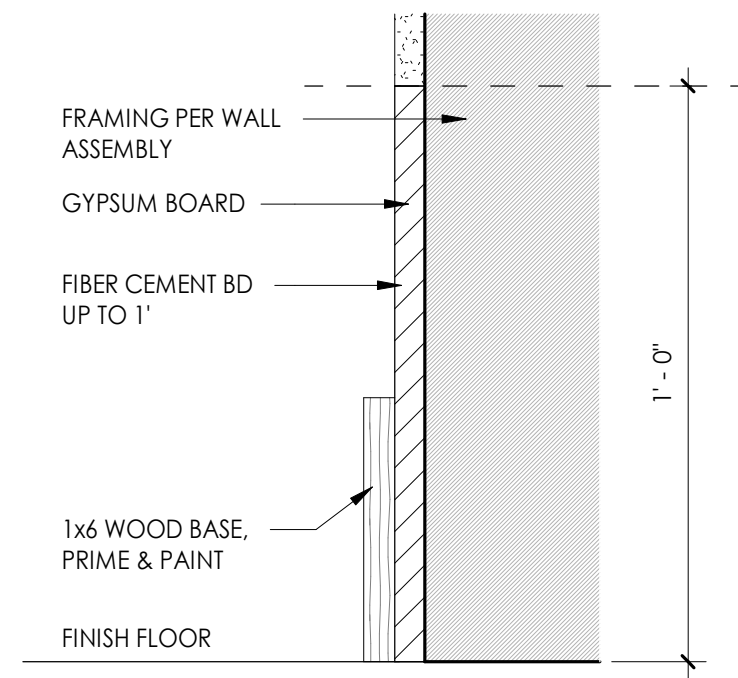
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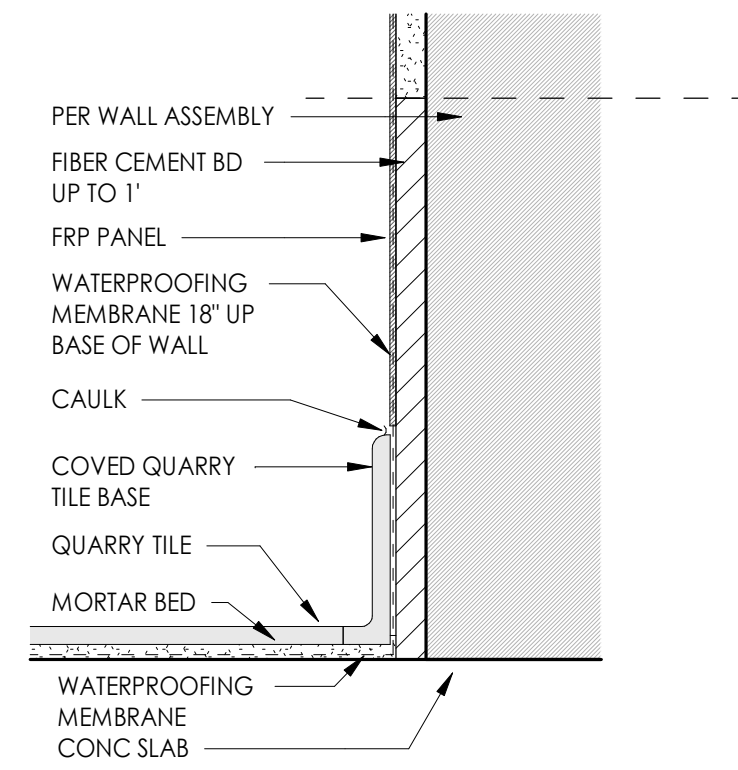
ENLARGED
PLANS

A411

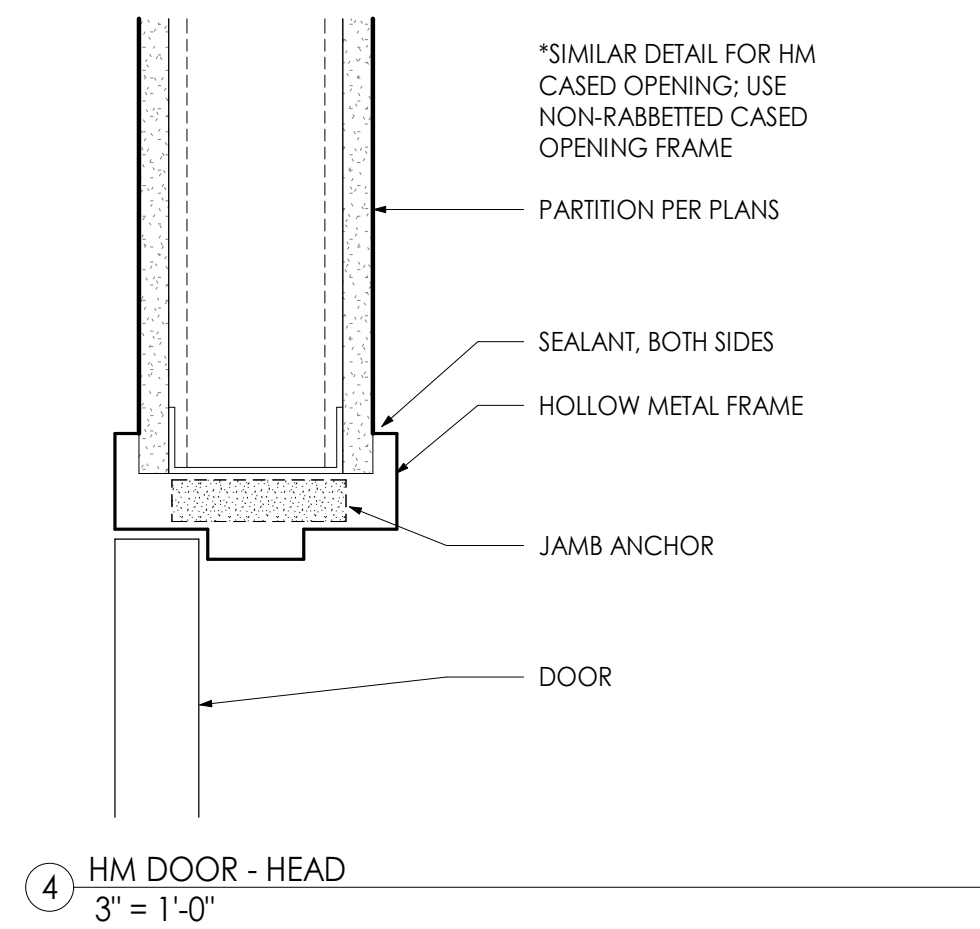
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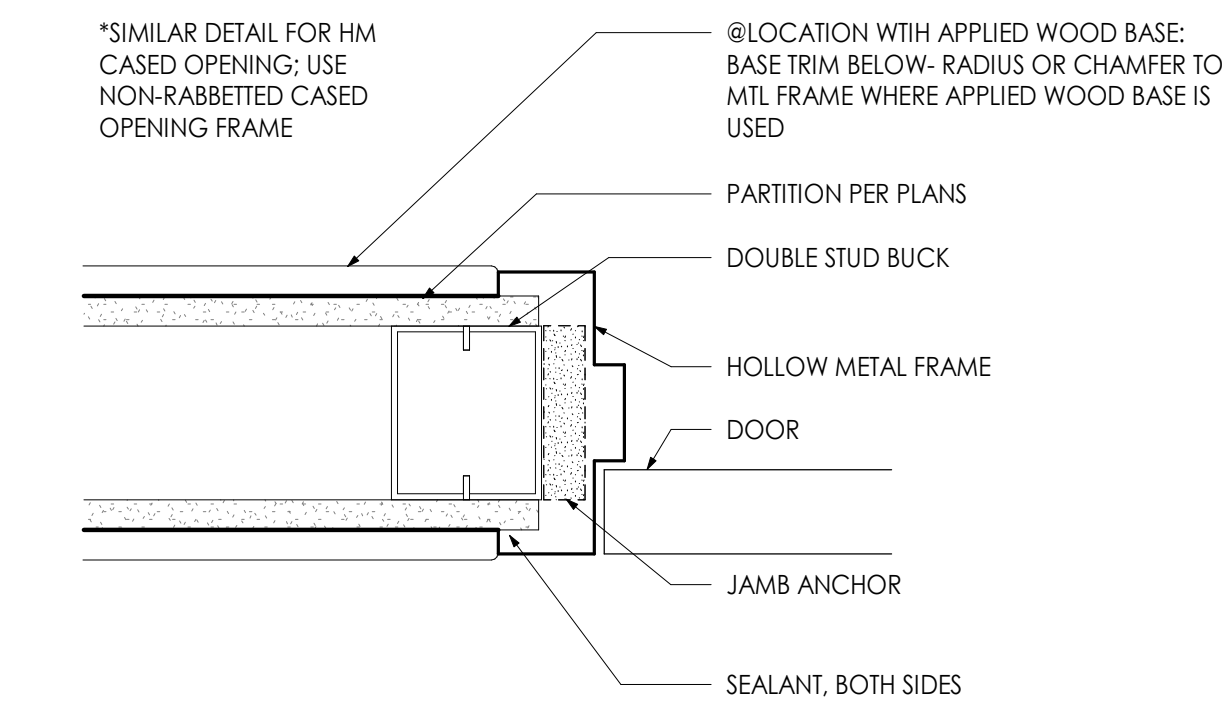
② BASE DETAIL - WOOD
3" = 1'-0"



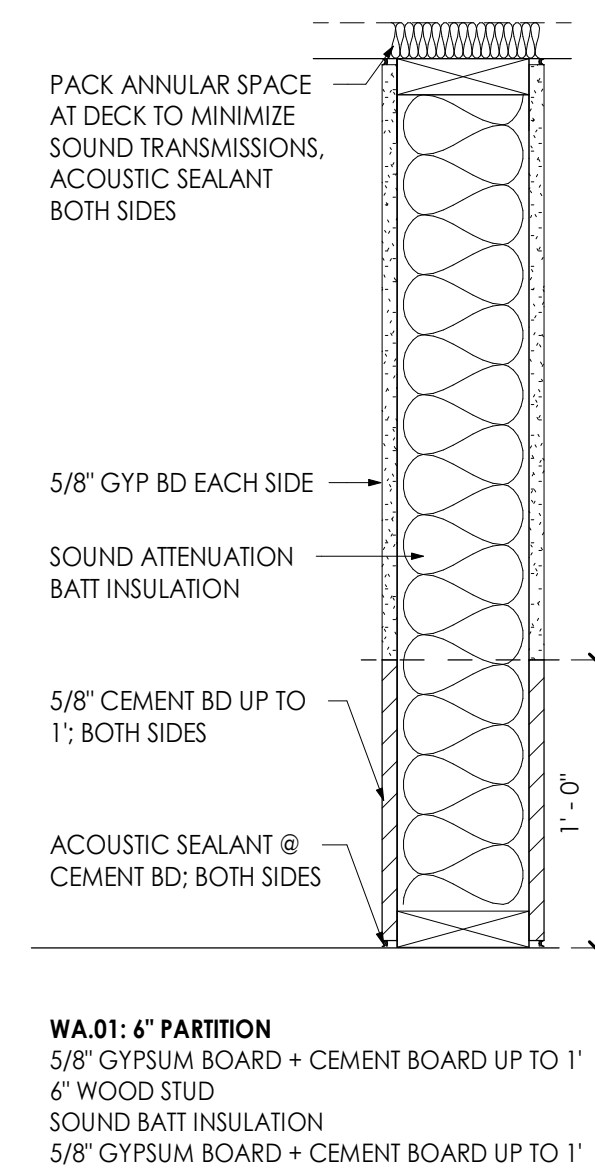
① BASE DETAIL- COVERED QUARRY TILE
3" = 1'-0"



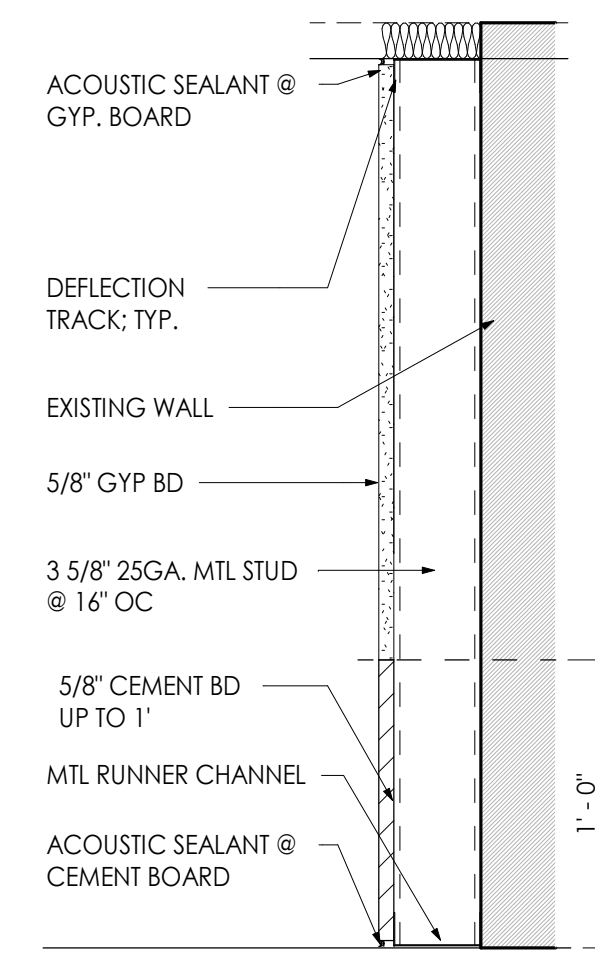
④ HM DOOR - HEAD
3" = 1'-0"



③ HM DETAIL - JAMB
3" = 1'-0"

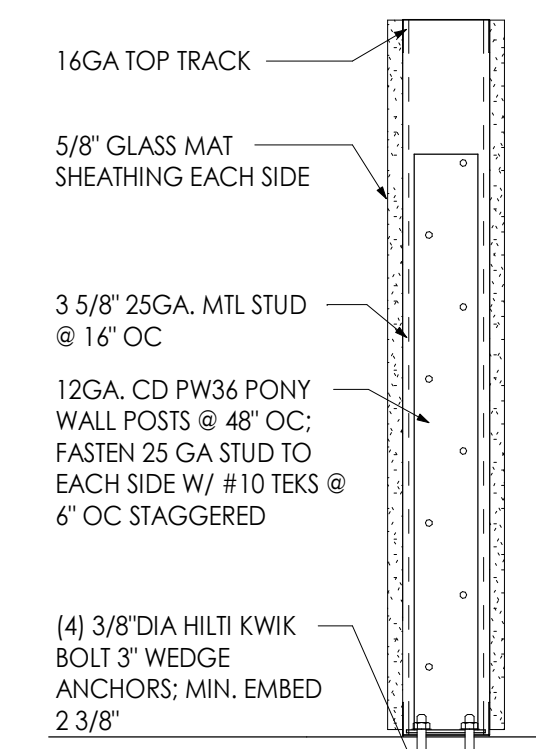


WA.01: 6" PARTITION
5/8" GYPSUM BOARD + CEMENT BOARD UP TO 1'
4" WOOD STUD
SOUND BATT INSULATION
5/8" GYPSUM BOARD + CEMENT BOARD UP TO 1'

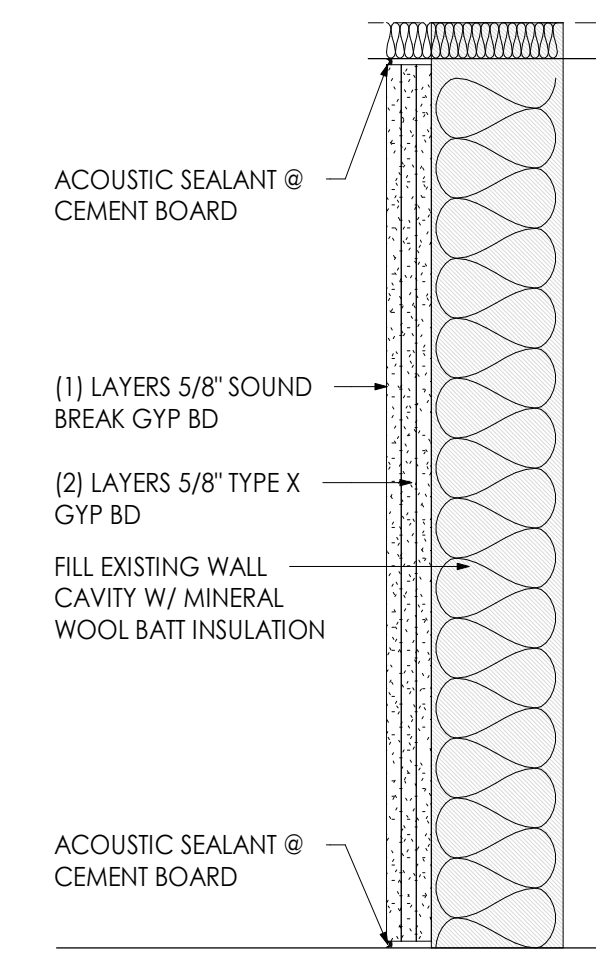


WA.02: 3 5/8" CHASE PARTITION
5/8" GYPSUM BOARD
3 5/8" MTL STUD

*FRAME AS REQD FOR VERTICAL CANTILEVER



WA.03: 3 5/8" PONY WALL - BAR
5/8" GLASS MAT SHEATHING
3 5/8" MTL STUD W/ PW36 POSTS
5/8" GLASS MAT SHEATHING



WA.02: 3 5/8" CHASE PARTITION
5/8" GYPSUM BOARD
3 5/8" MTL STUD

⑤ WALL TYPES
1 1/2" = 1'-0"

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ASSEMBLIES

A500

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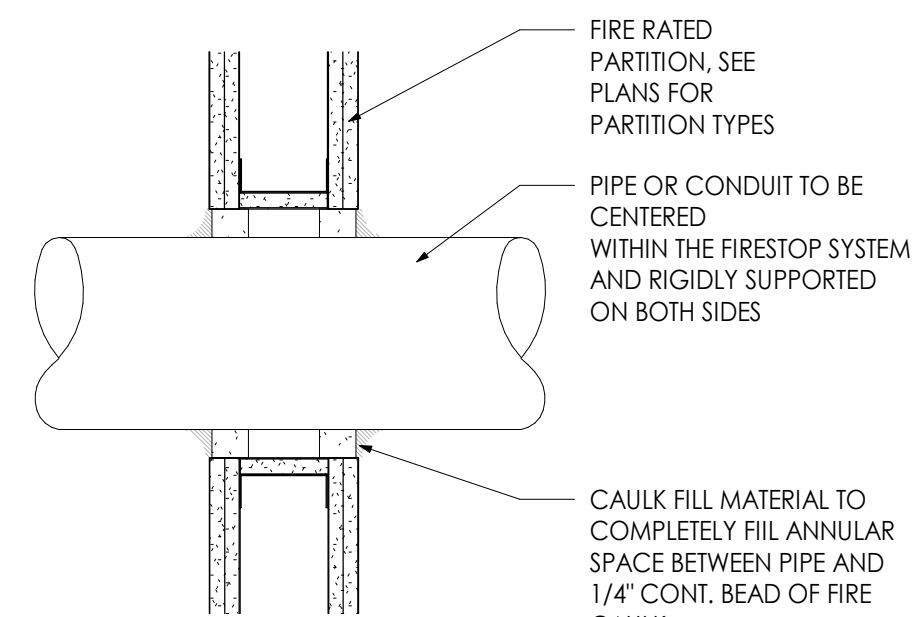
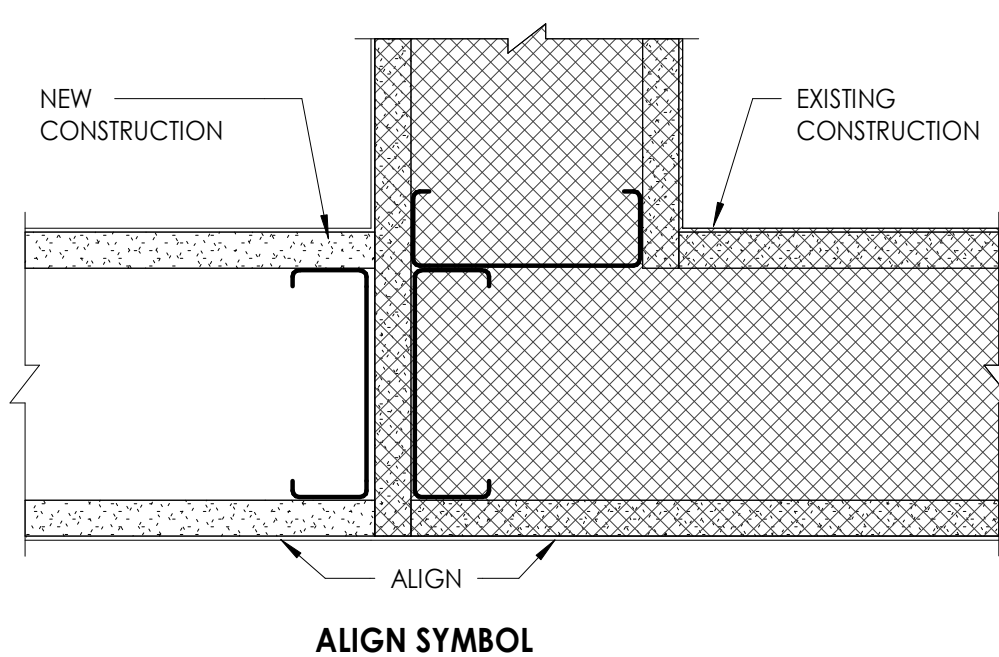
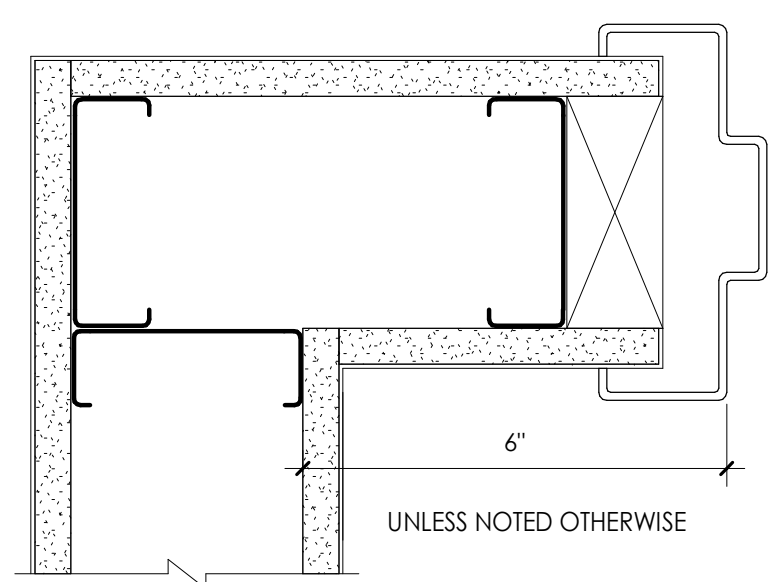
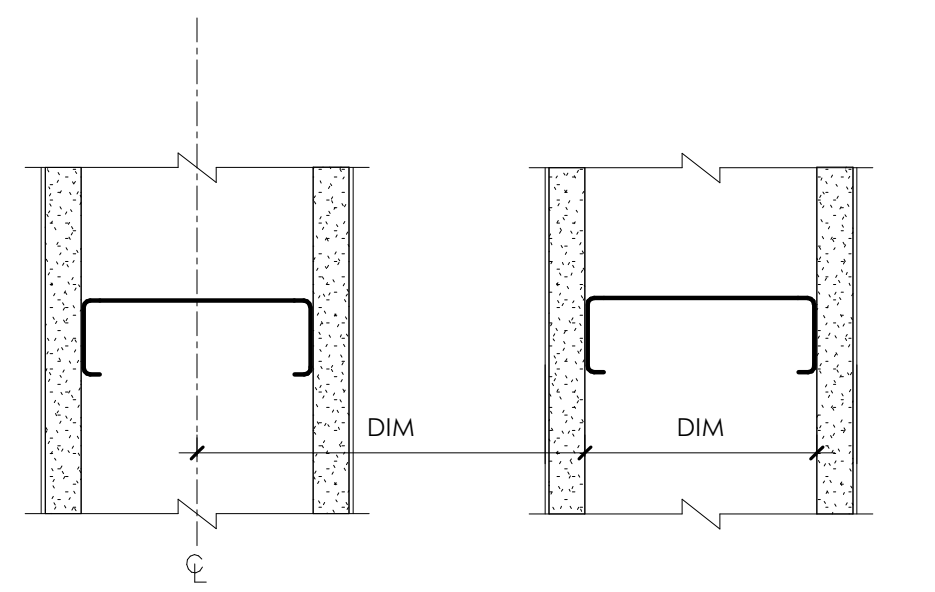
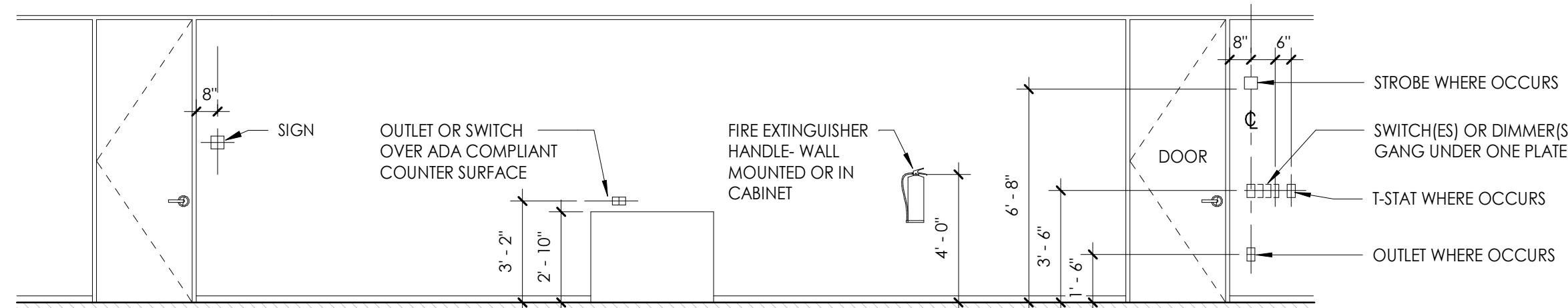
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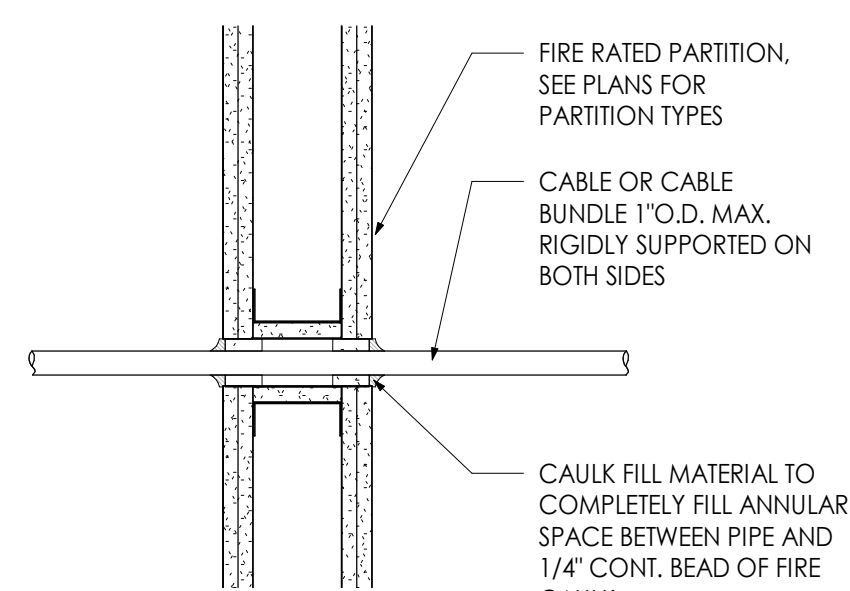
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TYPICAL DETAILS

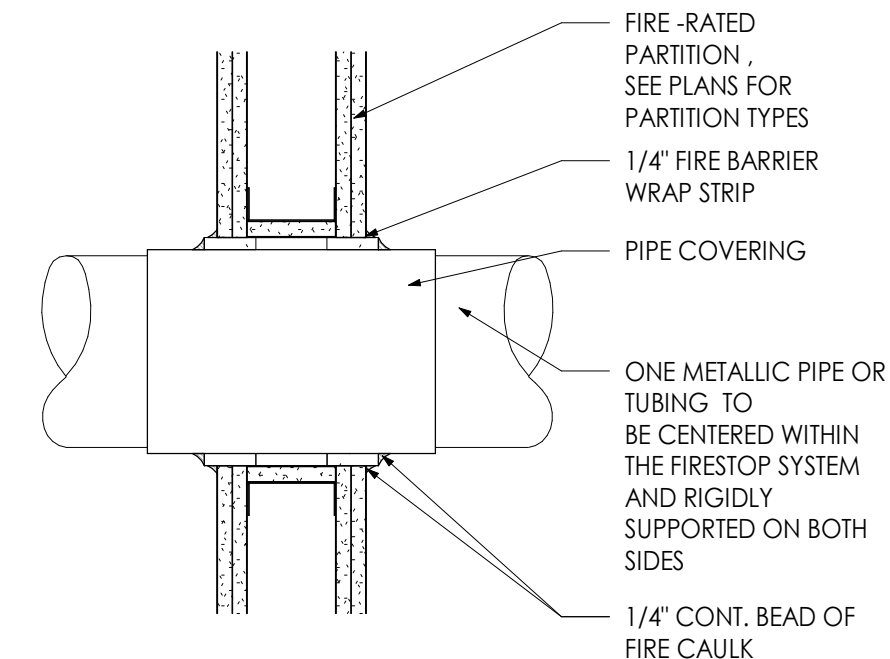
A501



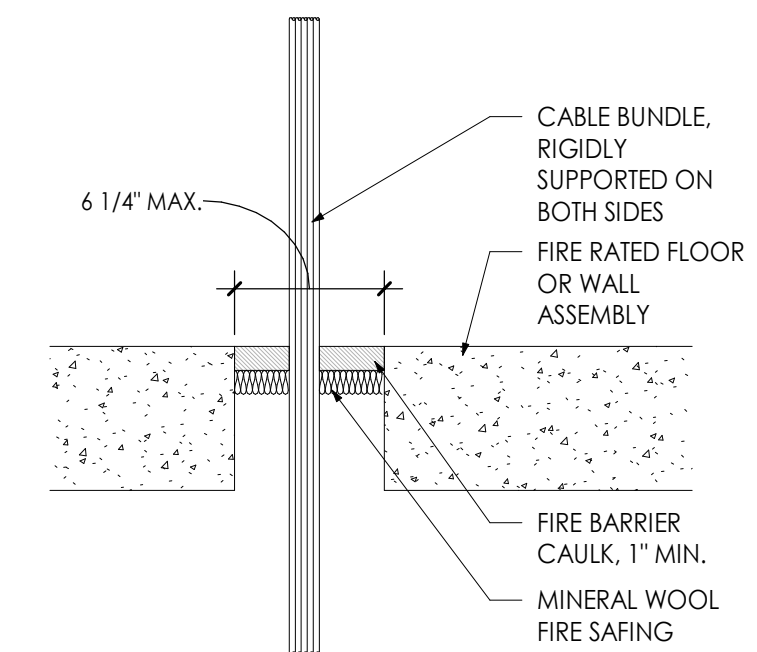
SINGLE PIPE/CONDUIT THROUGH ASSEMBLY
(UL SYSTEM #W-L-1001)
1, 2, 3 & 4 HR RATING



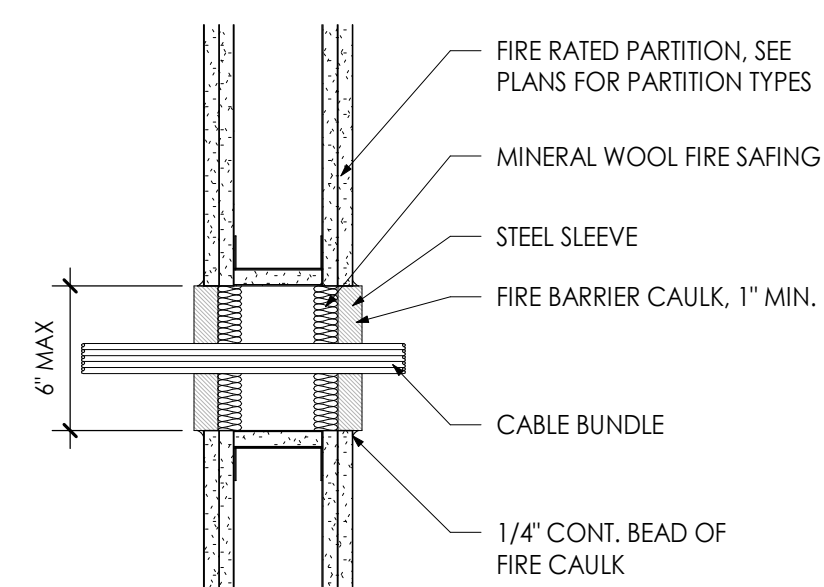
SINGLE INSULATED PIPE THROUGH ASSEMBLY
(UL SYSTEM #W-L-3001)
1 & 2 HR RATING



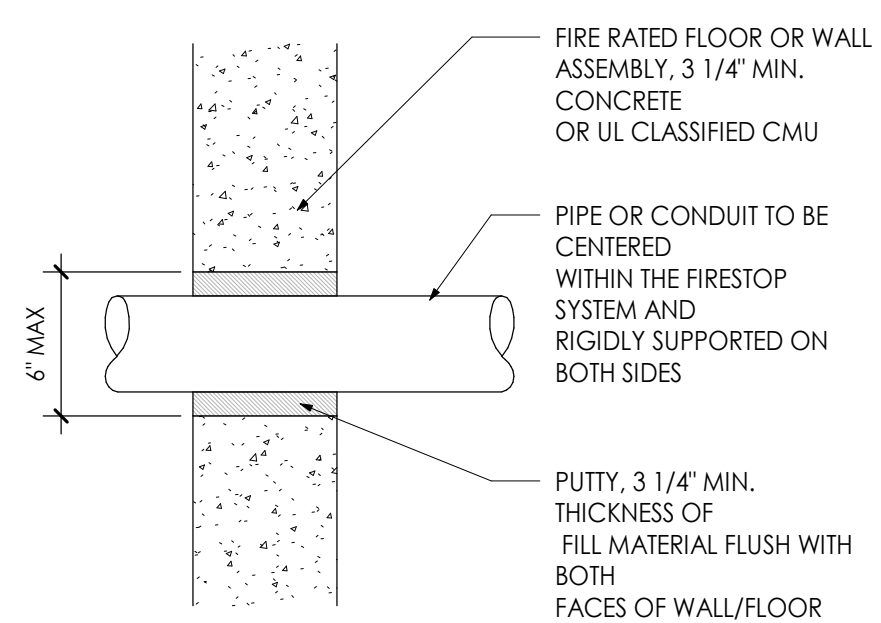
SINGLE INSULATED PIPE THROUGH ASSEMBLY
(UL SYSTEM #W-L-5001)
1 & 2 HR RATING



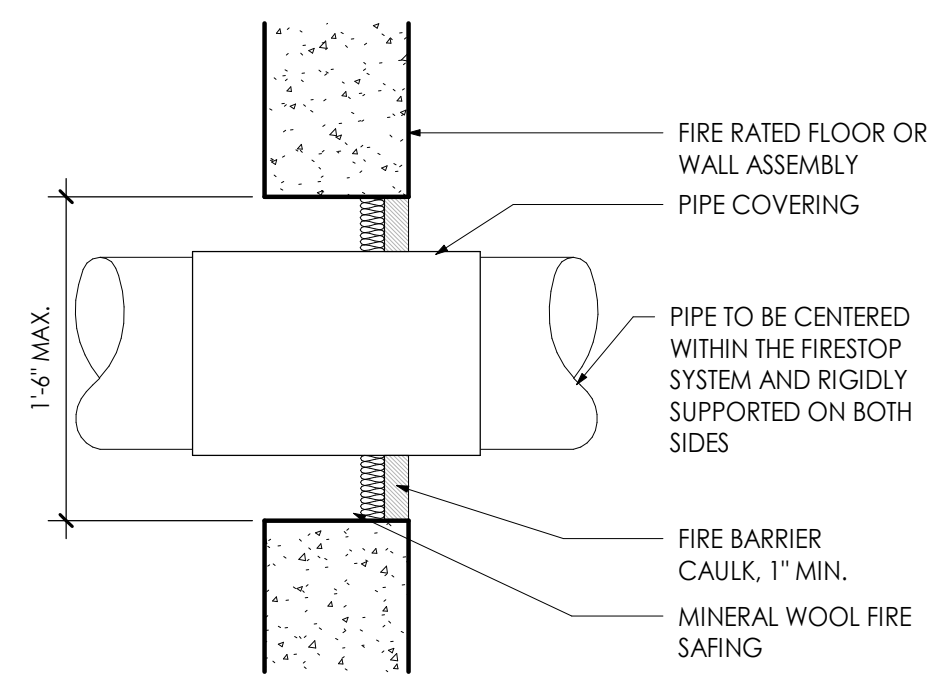
CABLE BUNDLE THROUGH CONCRETE WALL/FLOOR
(UL SYSTEM #C-AJ-3021)
2 HR RATING



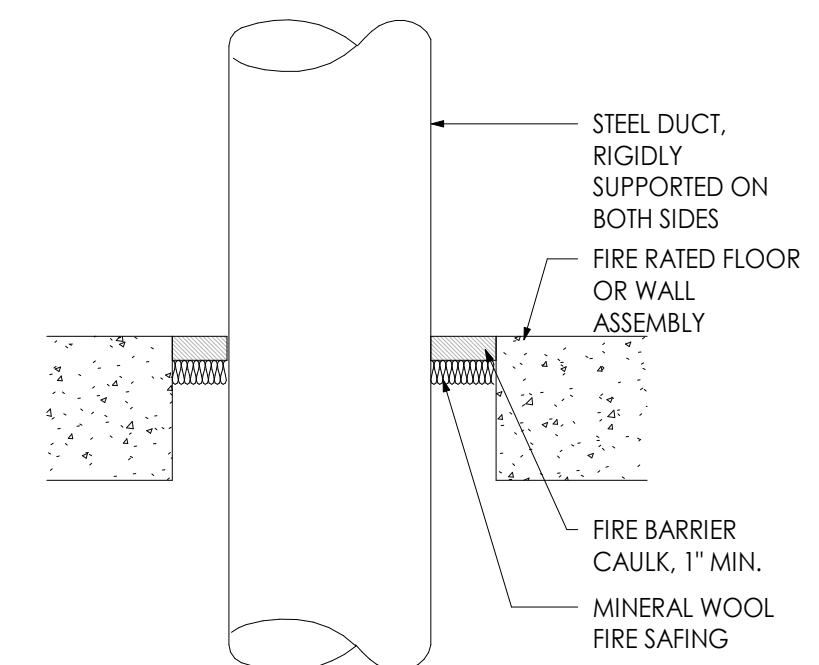
CABLE BUNDLE THROUGH ASSEMBLY
(UL SYSTEM #W-L-3032)
1 & 2 HR RATING



SINGLE INSULATED PIPE THROUGH CONCRETE OR CMU WALL/FLOOR
(UL SYSTEM #C-AJ-1041)
1 & 2 HR RATING



SINGLE INSULATED PIPE THROUGH CONC. OR CMU WALL/FLOOR
(UL SYSTEM #C-AJ-5001)
1 1/2, 2 & 3 HR RATING



STEEL DUCT THROUGH CONCRETE OR CMU WALL/FLOOR
(UL SYSTEM #C-AJ-7003)
3 HR RATING

3 DIMENSION LEGEND
12" = 1'-0"

1 TYPICAL FIRESTOPPING DETAILS
1 1/2" = 1'-0"

DOOR SCHEDULE								
MARK	STYLE	HEIGHT	WIDTH	MANF.	HARDWARE	MATERIAL	NOTES	Comments
C	HM FRAME	6' - 7"	3' - 0"			MTL		
F	TRAFFIC DOOR	7' - 0"	3' - 0"	Frank Door Company		Hard Plastic Panel		
H	ACCESS PANEL	6' - 0"	2' - 0"	ACUDOR		MTL	FLUSH RECESSED PLYWOOD	

EXTERIOR DOOR SCHEDULE								
MARK	STYLE	WIDTH	HEIGHT	FIRE RATING	HARDWARE	MATERIAL	FINISH	COMMENTS
D01	SNGL STOREFRONT	3' - 0"	6' - 11"	--		GLASS/ALUM		EXTERIOR
D02	SNGL STOREFRONT	3' - 0"	6' - 11"	--		GLASS/ALUM		EXTERIOR
D03	SNGL STOREFRONT	3' - 0"	7' - 10 1/2"	--		GLASS/ALUM		EXTERIOR
G	STYLE A	3' - 4"	7' - 0"					EXTERIOR
TP35	STYLE A	3' - 0"	5' - 10"					EXTERIOR
TP41	STYLE A	3' - 0"	5' - 10"					EXTERIOR

WINDOWS SCHEDULE									
Type Mark	MARK	HEIGHT	WIDTH	Sill Height	Exterior Frame Finish	Interior Frame Finish	MANF.	STYLE	NOTES
WA	101	2' - 0"	3' - 3"	7' - 6"			SIERRA PACIFIC WINDOWS	Clad Feel Safe Direct Set	
WB	102	2' - 0"	2' - 3"	7' - 6"			SIERRA PACIFIC WINDOWS	Clad Feel Safe Direct Set	
WB	103	2' - 0"	2' - 3"	7' - 6"			SIERRA PACIFIC WINDOWS	Clad Feel Safe Direct Set	
WB	104	2' - 0"	2' - 3"	7' - 6"			SIERRA PACIFIC WINDOWS	Clad Feel Safe Direct Set	
WC	105	6' - 10"	3' - 3"	0' - 2 1/2"			SIERRA PACIFIC WINDOWS	Clad Feel Safe Direct Set	
WC	106	6' - 10"	3' - 3"	0' - 2 1/2"			SIERRA PACIFIC WINDOWS	Clad Feel Safe Direct Set	
WD	107	2' - 0"	2' - 10 3/4"	7' - 6"			SIERRA PACIFIC WINDOWS	Clad Feel Safe Direct Set	
WD	108	2' - 0"	2' - 10 3/4"	7' - 6"			SIERRA PACIFIC WINDOWS	Clad Feel Safe Direct Set	
WD	109	2' - 0"	2' - 10 3/4"	7' - 6"			SIERRA PACIFIC WINDOWS	Clad Feel Safe Direct Set	
WA	110	2' - 0"	3' - 3"	7' - 6"			SIERRA PACIFIC WINDOWS	Clad Feel Safe Direct Set	
WE	111	5' - 5"	4' - 2"	1' - 7 1/4"			SIERRA PACIFIC WINDOWS	Clad Feel Safe French Push-Out Casement	
WE	112	5' - 5"	4' - 2"	1' - 7 1/4"			SIERRA PACIFIC WINDOWS	Clad Feel Safe French Push-Out Casement	

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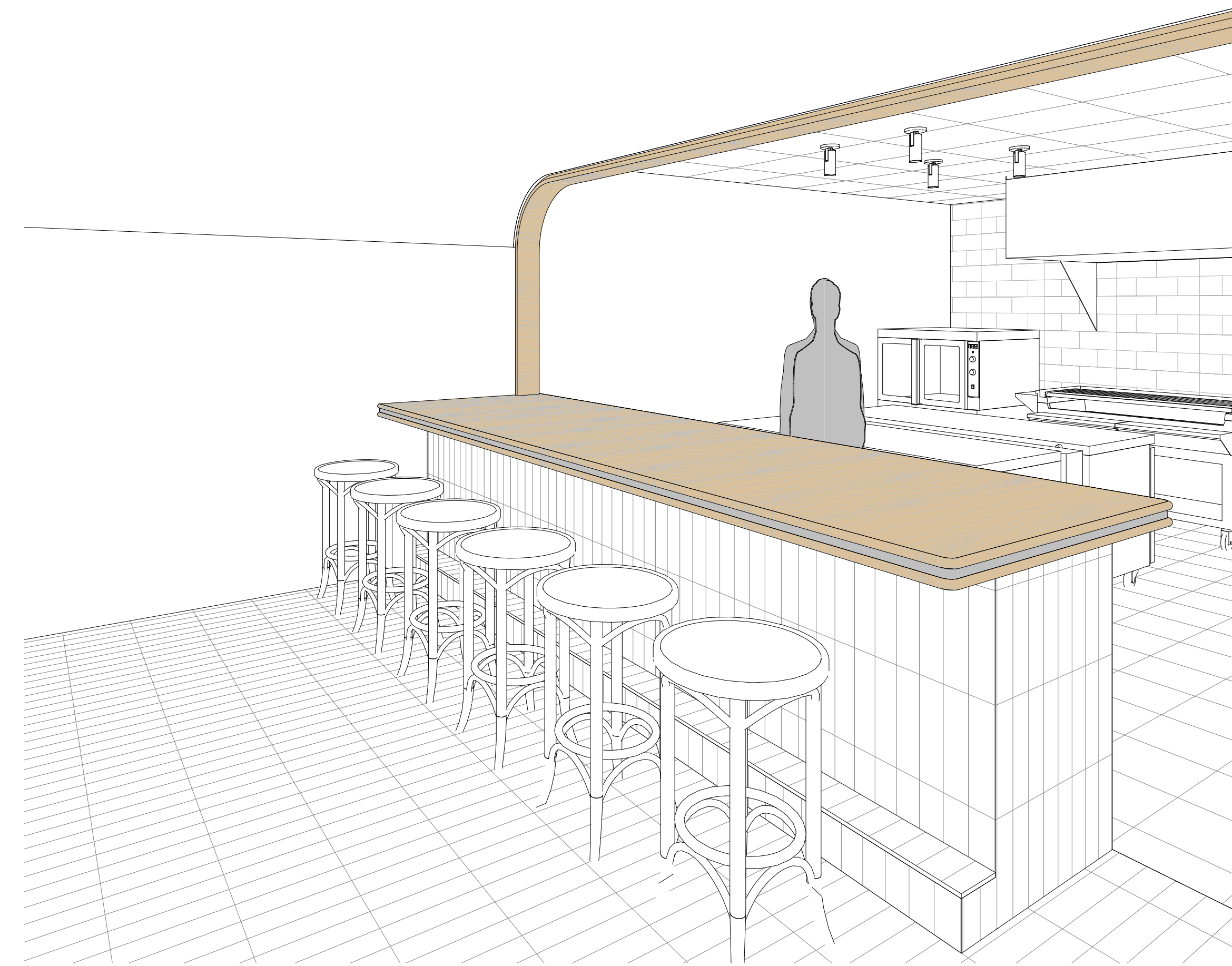
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OPENING
 SCHEDULE

A600



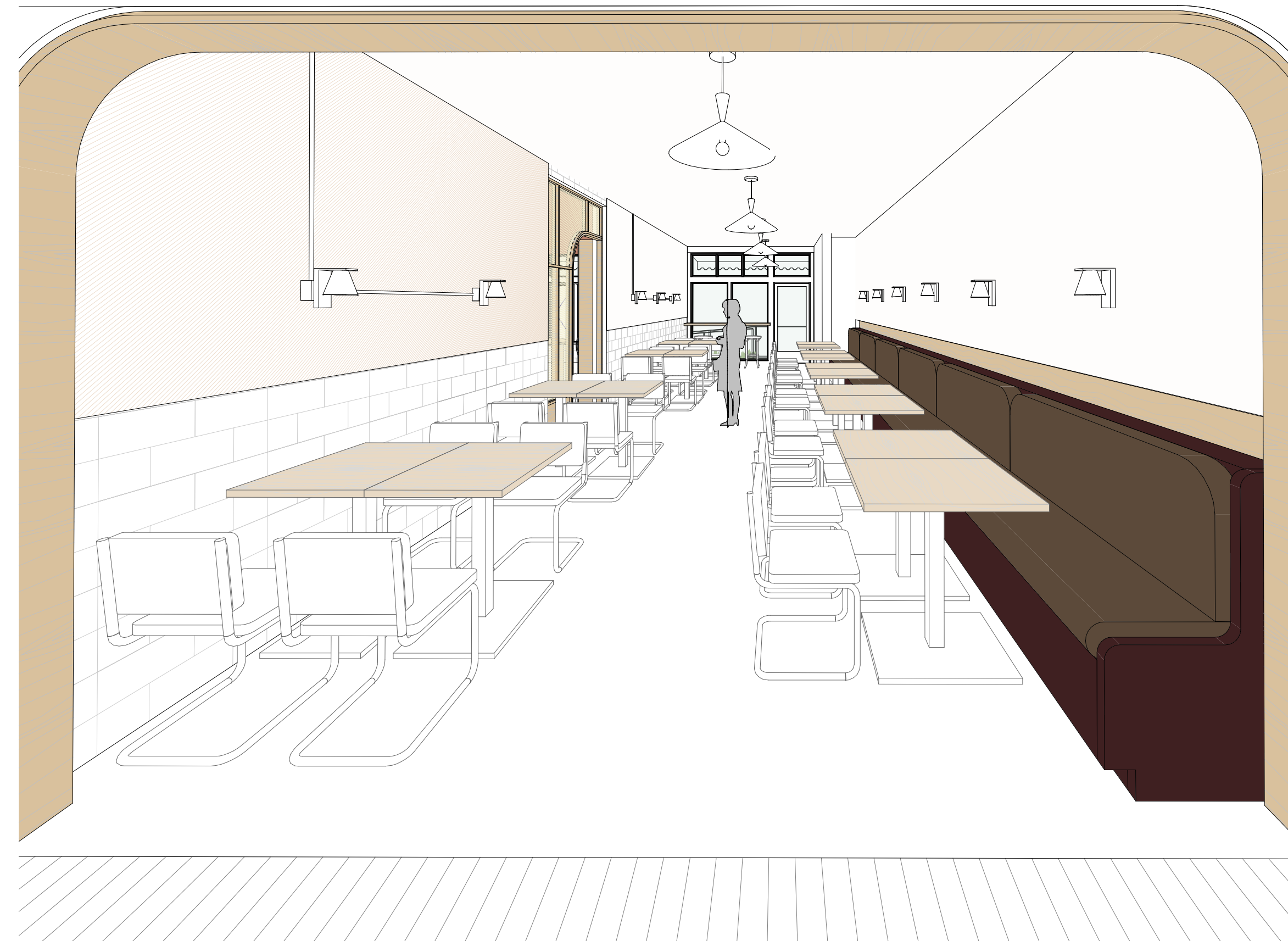
⑦ 3D View 8



② FOOD COUNTER Copy 1



① ARCH FOOD COUNTER Copy 1



③ 3D View 9 Copy 1

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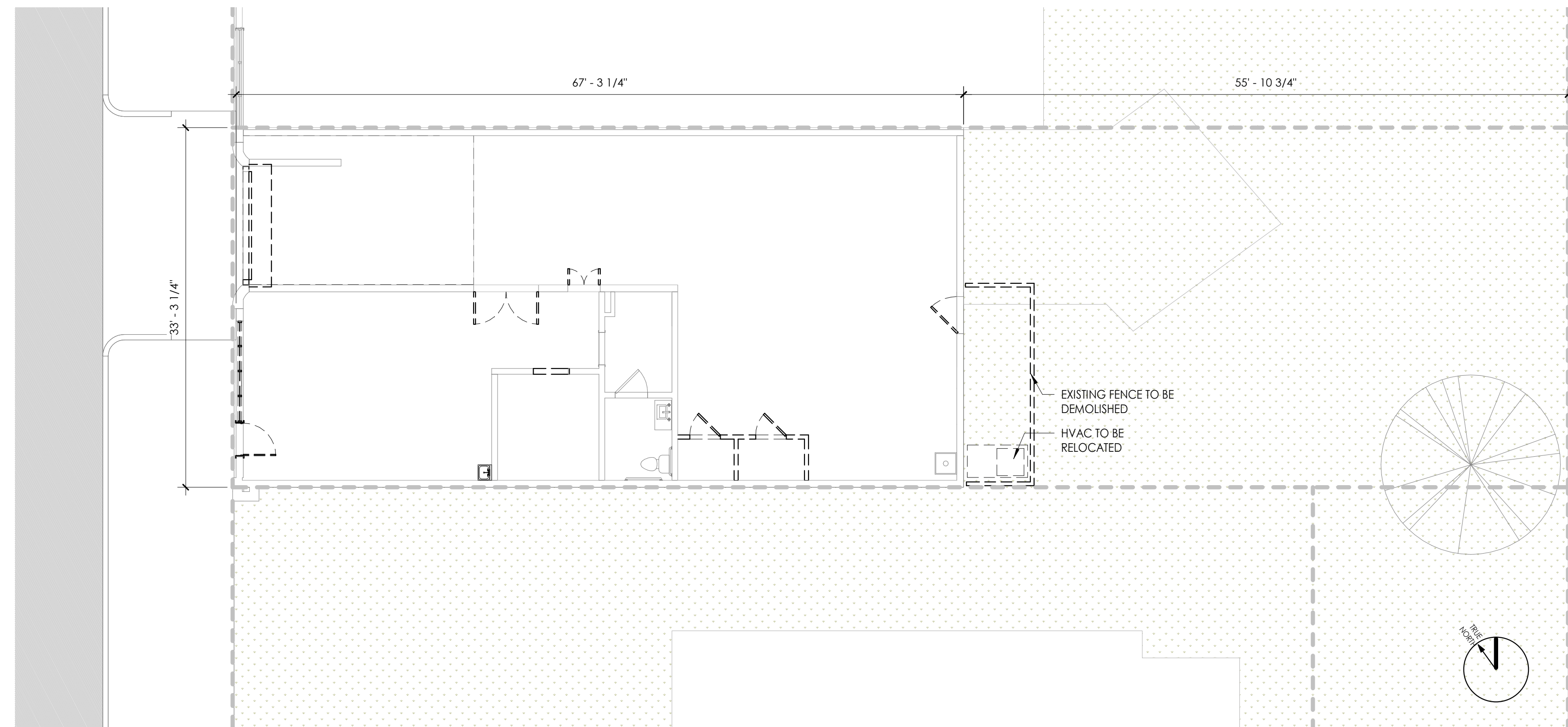
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3D

A901



① SITE PLAN- EXISTING
1/8" = 1'-0"

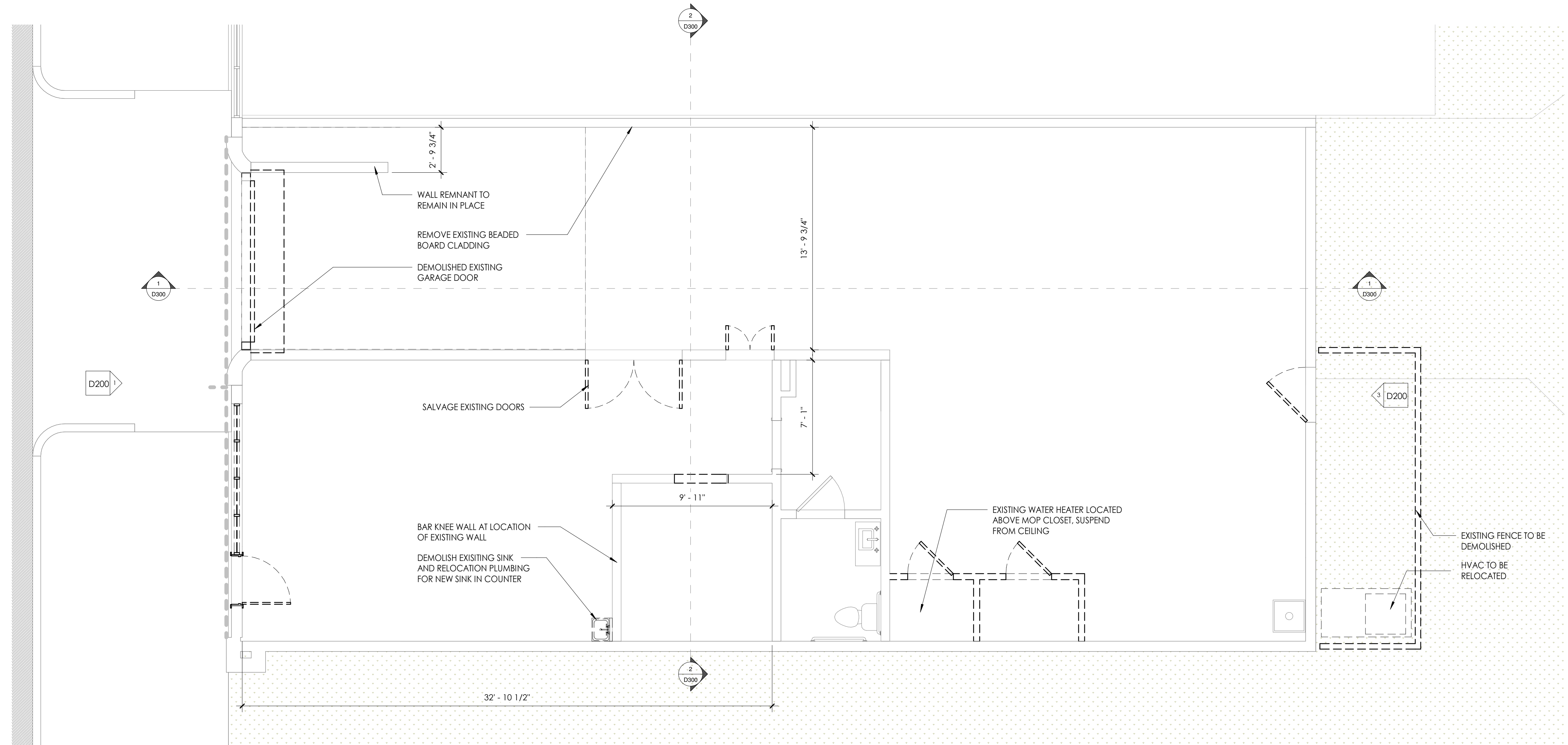
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EXISTING SITE
PLAN -
DEMOLITION
D100



① 01 PLAN- EXISTING
1/4" = 1'-0"

DEMO NOTES

1. THE GENERAL CONTRACTOR IS RESPONSIBLE TO VERIFY ALL CONDITIONS PRIOR TO DEMOLITION.
2. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER OR ARCHITECT ANY MATERIALS, EQUIPMENT OR FURNISHING IN THE EXISTING SPACE TO BE STORED, SALVAGED, OR OTHERWISE NOT DISCARDED.
3. ADEQUATELY PROTECT EQUIPMENT, FINISHES, AND FURNISHINGS TO REMAIN IN THE SPACE DURING DEMOLITION AND CONSTRUCTION.
4. ALL WALLS NOTED AS EXISTING TO REMAIN SHALL BE CONSERVED TO GREATEST EXTENT FEASIBLE. LOCALIZED DEMO MAY BE REQUIRED TO RUN ADDITIONAL PLUMBING, ELECTRICAL, OR DATA. ALL OTHER PARTITION WALLS TO BE DEMOLISHED.
5. ELECTRICAL, PLUMBING, AND MECHANICAL TO REMAIN OR TO BE RELOCATED OR REUSED SHALL BE CAPPED OR OTHERWISE TEMPORARILY PULLED BACK IN A MANNER TO ACCOMMODATE NEW WORK. ALL TEMPORARY ACCOMMODATIONS FOR MEP SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND CONSIDERED PART OF THIS CONTRACT.
6. REPLACE HVAC FILTERS WITH CONSTRUCTION GRADE FILTERS TO PREVENT DAMAGE TO UNITS.
7. PROVIDE COVER OR CAPS FOR ALL OPEN SANITARY WASTE LINES DURING DEMOLITION AND UNTIL COMPLETED WORK IS TIED IN.
8. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN PERMISSIONS AND TO COORDINATE WITH ALL UTILITIES, BUILDING OWNER, FACILITY MANAGEMENT AND OTHER ENTITIES HAVING AUTHORITY OR JURISDICTION RELATED TO THIS PROJECT.
9. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL DEMOLITION WASTE AND DEBRIS. ALL DEMOLITION SHALL BE DISPOSED OF IN A MANNER APPROVED BY LOCAL JURISDICTIONS. IN THE ABSENSE OF AN AUTHORITATIVE JURISDICTION, THE CONTRACTOR SHALL PROVIDE A TEMPORARY DUMPSTER FOR DEMOLITION DEBRIS. IF DEBRIS IS TO BE HAULED FROM THE SITE IN LIEU OF AN AVAILABLE DUMPSTER LOCATION, ALL LOOSE MATERIAL SHALL BE BAGGED.
10. ALL DEBRIS AND WASTE FROM DEMOLITION SHALL BE COLLECTED, SWEEPED, AND REMOVED FROM THE JOBSITE ON A DAILY BASIS.
11. ITEMS INDICATED TO BE REUSED SHALL BE DISCONNECTED, CLEANED, AND STORED FOR REINSTALLATION.

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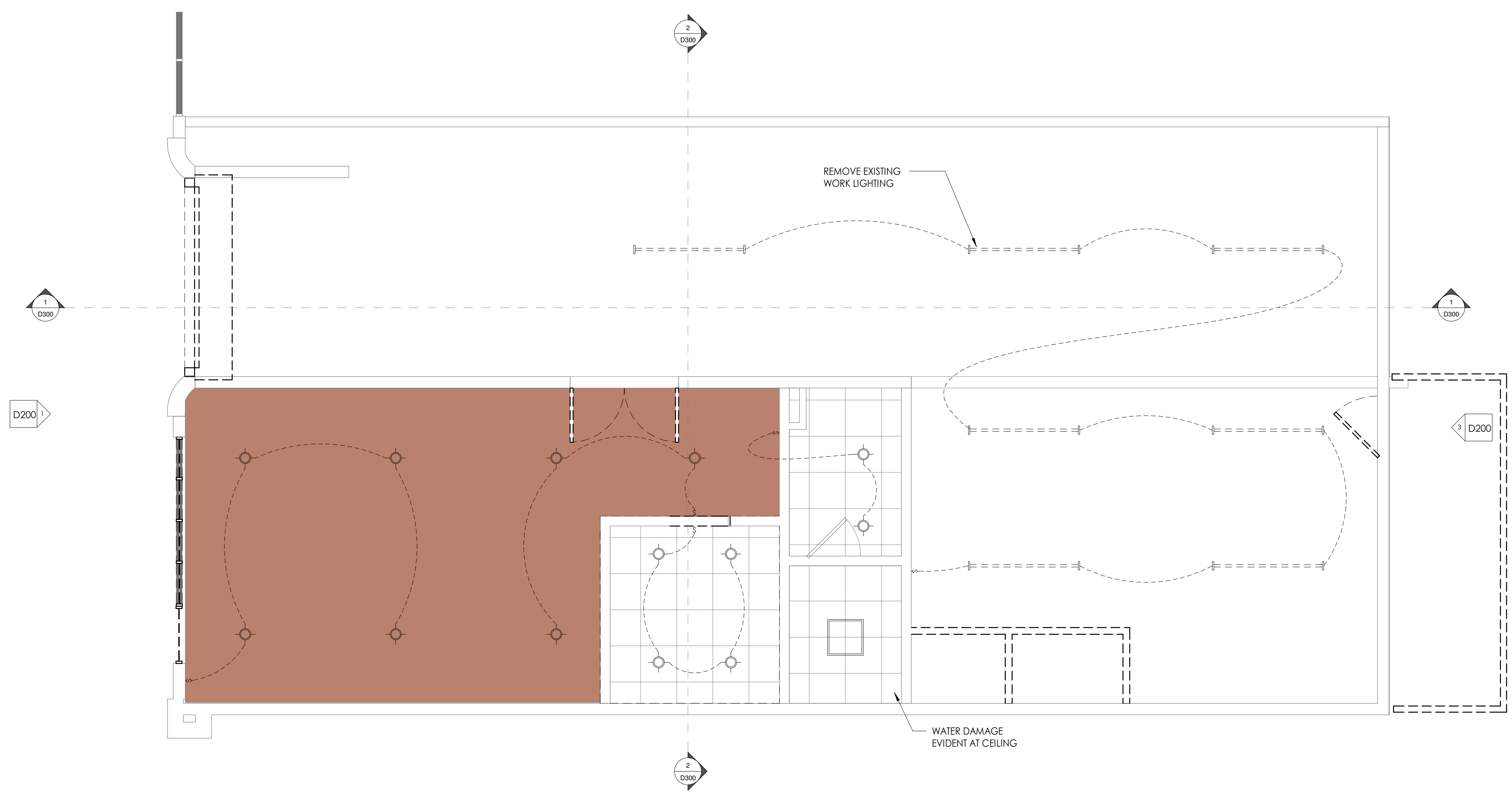
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EXISTING FIRST
FLOOR PLAN -
DEMO

D101

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01 RCP- EXISTING
1/4" = 1'-0"

CEILING TYPES

- CA.01: VINYL LAY IN TILE**
ARMSTRONG CLEAN ROOM
SIZE: 24x24
COLOR: WHITE
SUSPENSION: PRELUDE 15/16" EXPOSED TEE SYSTEM
SUSPENSION COLOR: WHITE
OR EQUAL- ANY BUDGET ALT ACCEPTABLE
- CA.02: BUDGET ACOUSTIC LAY IN TILE**
ARMSTRONG FISSURED 755 LAY-IN
SIZE: 24x48
SUSPENSION: PRELUDE ML 15/16" EXPOSED TEE
SUSPENSION COLOR: WHITE
OR EQUAL- ANY BUDGET ALT ACCEPTABLE
- CA.03: GYPSUM**
5/8" GYPSUM BOARD
SUSPENSION: ARMSTRONG DRYWALL GRID
SOFFITS: ARMSTRONG DRYWALL GRID OR QUICKSTIX
OR EQUAL

NOT FOR CONSTRUCTION

- 72" panel boards (top)
- 18" receptacles
- 42" counter height receptacles
- 24" exterior receptacles
- 26" garage receptacles
- 42" switches (centerline)
- 18" telephone outlets
- 18" data outlets
- 42" thermostat

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EXISTING FIRST FLOOR RCP

D150

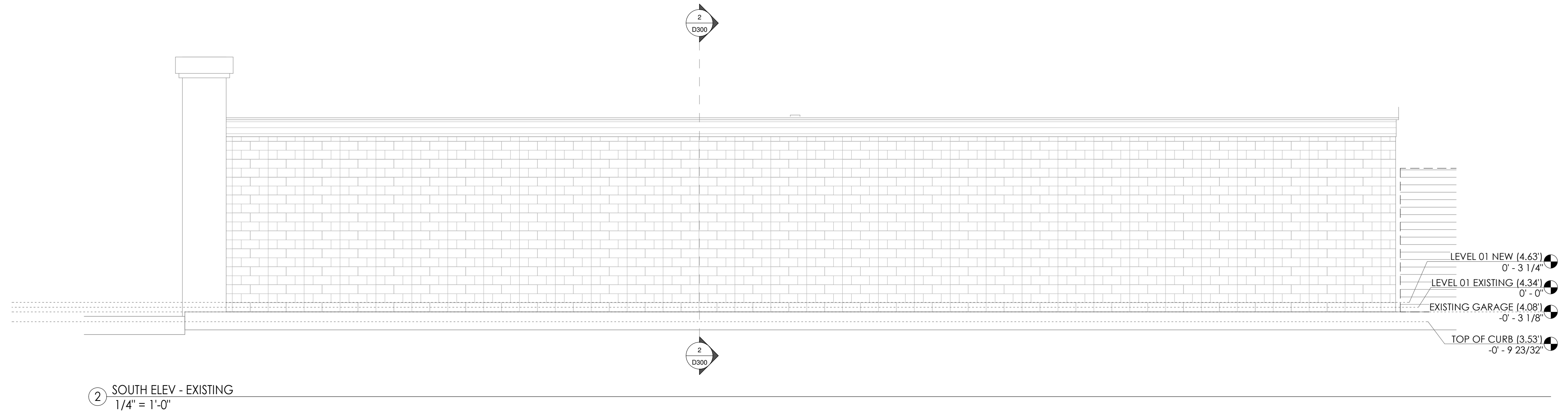
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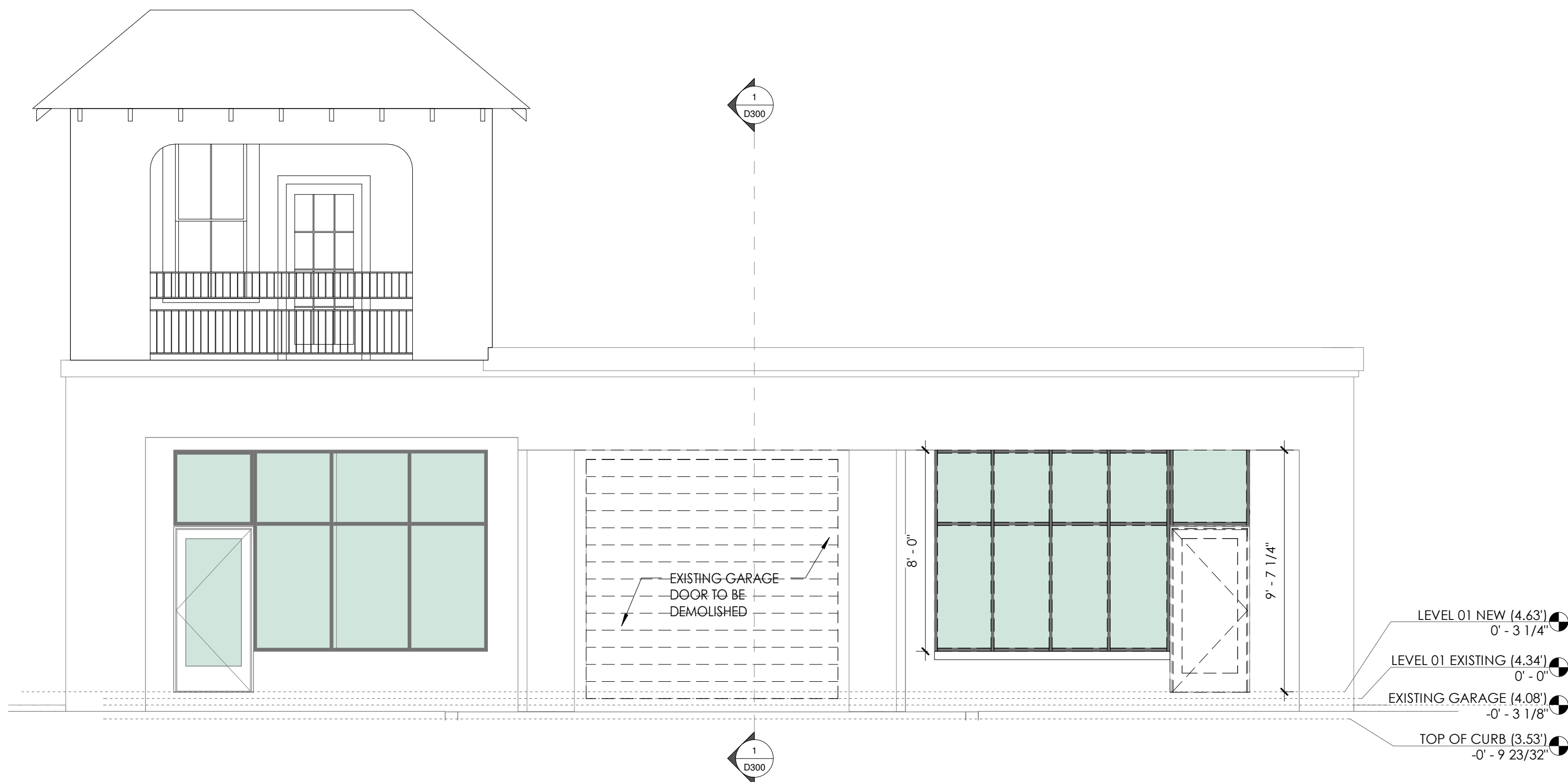
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EXISTING
 ELEVATIONS

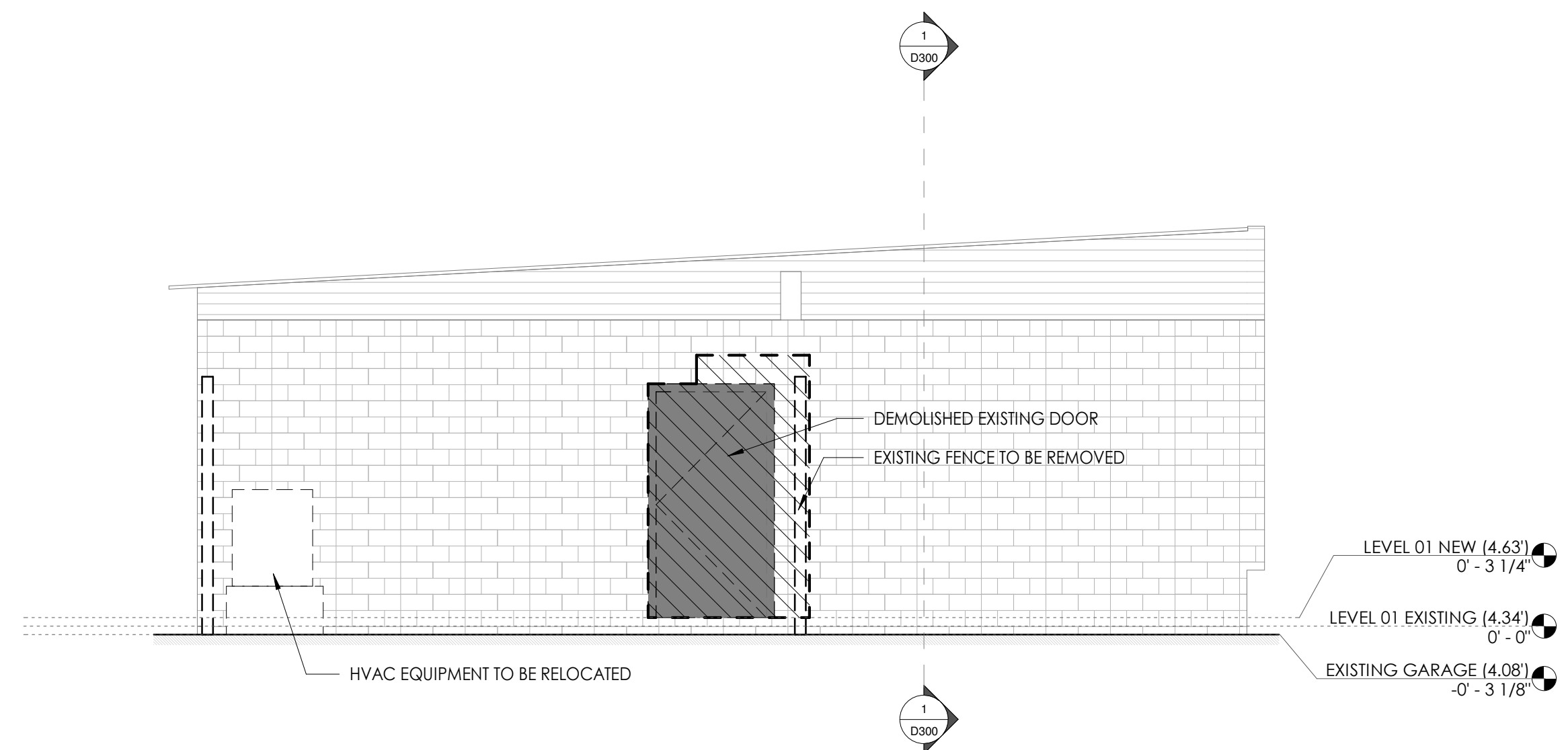
D200



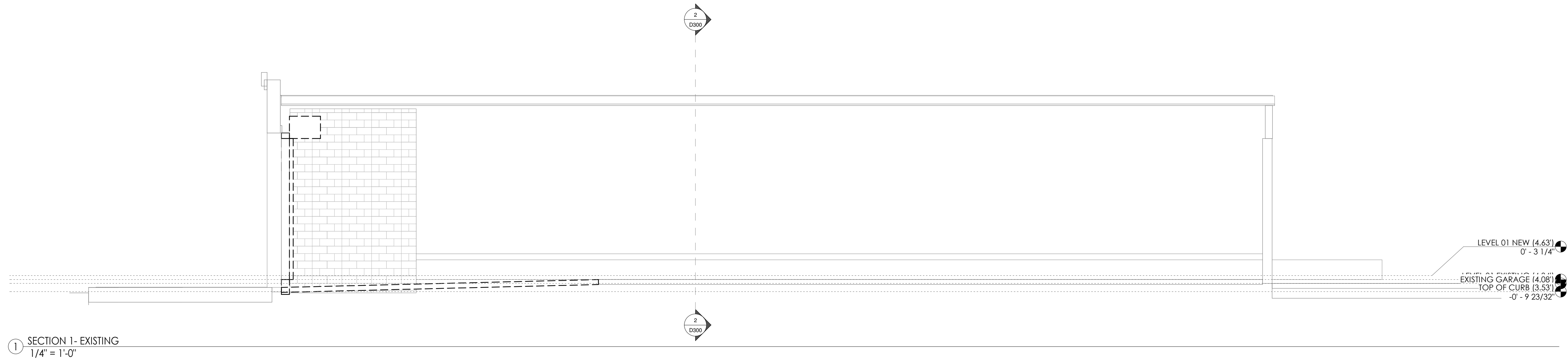
② SOUTH ELEV - EXISTING
 1/4" = 1'-0"



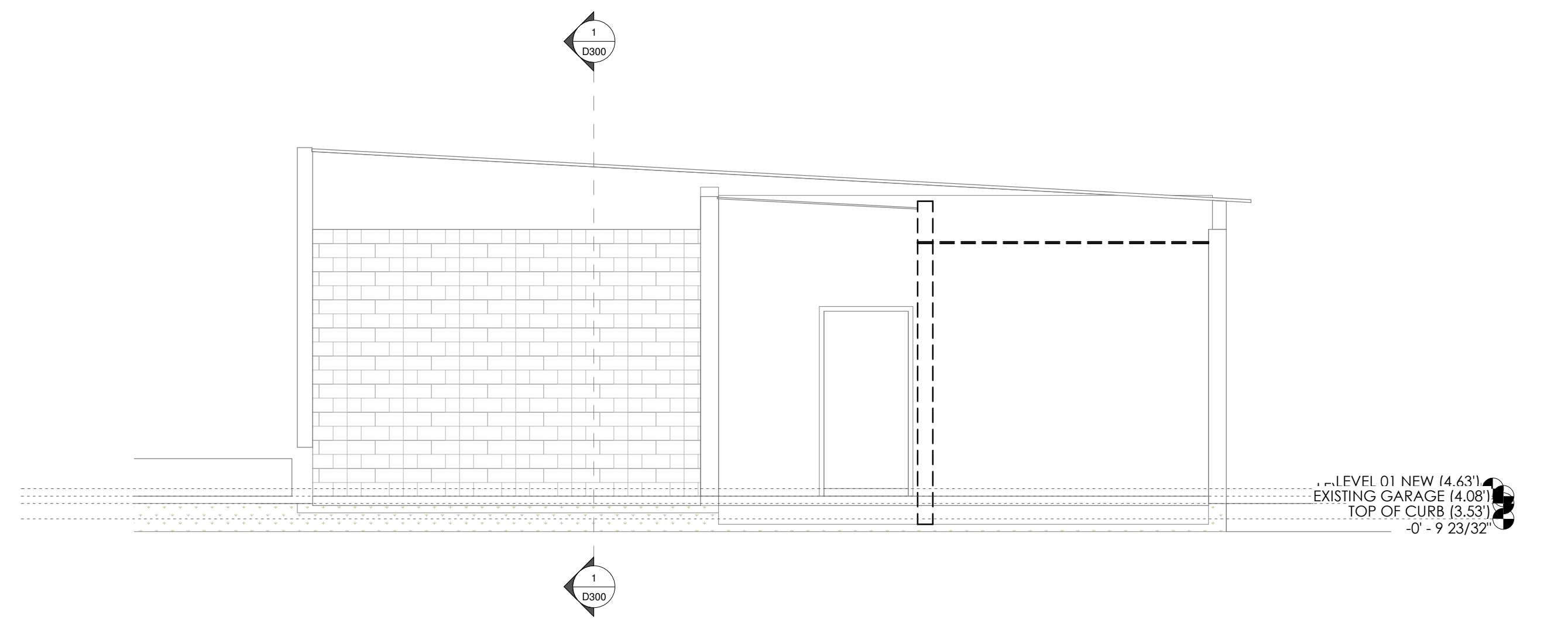
① MAG ELEVATION - EXISTING
 1/4" = 1'-0"



③ EAST ELEV - EXISTING
 1/4" = 1'-0"



① SECTION 1 - EXISTING
1/4" = 1'-0"



② SECTION 2 - EXISTING
1/4" = 1'-0"

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EXISTING
SECTIONS

D300

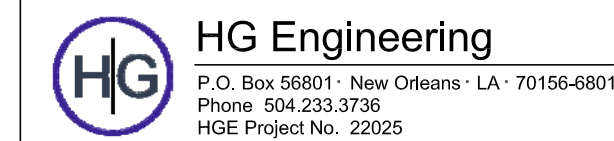
GENERAL NOTES:

- WORK REQUIRED UNDER THIS SECTION CONSISTS OF ALL MECHANICAL WORK AND RELATED ITEMS NECESSARY TO COMPLETE THE WORK INDICATED ON THE DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS. WORK INCLUDED: WITHOUT RESTRICTING VOLUME OR GENERALITY OF ABOVE EXTENT WORK PERFORMED UNDER THIS SECTION SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING NOTES.
- SPECIFICATIONS AND ACCOMPANYING DRAWINGS ARE INTENDED TO SHOW AND DESCRIBE COMPLETE MECHANICAL INSTALLATION, FULLY ERRECTED, PROPERLY INSTALLED IN WORKMANLIKE MANNER AND LEFT IN PROPER OPERATING CONDITION, WITH CONTRACTOR FURNISHING AND INSTALLING EVERYTHING NECESSARY TO COMPLETE THE JOB.
- FURNISH ALL LABOR, EQUIPMENT, TOOLS, MATERIALS, ACCESSORIES, ETC., FOR ALL ROUGH-IN'S AND FINAL CONNECTIONS, COMPLETE, FOR ALL EQUIPMENT INDICATED ON THE DRAWINGS, OR EQUIPMENT FURNISHED BY OTHERS.
- CHECK MECHANICAL SPECIFICATIONS AND DRAWINGS WITH REMAINDER OF SET, AND BRING TO ARCHITECT'S ATTENTION ANY CONFLICTS OR VARIATIONS AS SOON AS NOTED.
- ADEQUATELY PROTECT AGAINST INJURY ALL INSTALLED AND EXISTING MATERIAL, EQUIPMENT, MOTORS, FIXTURES, PIPING, INSULATION, ETC.
- REPLACE LOST OR DAMAGED ITEMS PRIOR TO ACCEPTANCE OF WORK.
- ADEQUATE AND COMPETENT SUPERVISION SHALL BE PROVIDED BY THIS SECTION TO ASSURE THAT WORK IS DONE IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND WORKMANSHIP AND WITH INTENT OF DRAWINGS AND SPECIFICATIONS.
- ALL CONTRACTORS SUBMITTING BIDS FOR THE WORK UNDER THIS CONTRACT SHALL BE SPECIALISTS IN THEIR FIELD AND SHALL HAVE THE PERSONAL EXPERIENCE, TRAINING AND SKILL TO CONSTRUCT A PROPERLY OPERATING MECHANICAL SYSTEM AS DESCRIBED BY THE CONTRACT DRAWINGS.
- IF REQUIRED, THE CONTRACTOR SHALL BE ABLE TO FURNISH EVIDENCE OF HAVING NOT LESS THAN THREE YEARS EXPERIENCE AND HAVING BEEN RESPONSIBLE FOR AT LEAST THREE PROJECTS COMPARABLE IN SIZE AND COMPLEXITY TO THIS ONE.
- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH BEST STANDARDS OF PRACTICE BY WORKMEN SKILLED AND QUALIFIED IN TYPE OF WORK TO BE DONE. SCHEDULE AND PERFORM MECHANICAL WORK TO AVOID DELAYS TO PROJECT.
- ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL EXISTING LOCAL, PARISH, STATE AND NATIONAL CODES AND ORDINANCES HAVING JURISDICTION. SUCH CODES INCLUDE, BUT ARE NOT LIMITED TO, IBC, IMC, IPC, IF, NFPA, LA STATE PLUMBING CODE, ETC. LOCAL CODES SHALL TAKE PRECEDENCE OVER STATE CODES WHICH SHALL TAKE PRECEDENCE OVER NATIONAL CODES AND INDUSTRY STANDARDS.
- IF ANY CONFLICTS ARE FOUND BETWEEN SPECIFICATIONS AND DRAWINGS AND ABOVE AUTHORITIES, NOTIFY ARCHITECT AS SOON AS CONFLICTS ARE DISCOVERED AND ABOVE CODES AND REQUIREMENTS WILL GOVERN.
- SECURE ALL PERMITS AND INSPECTIONS AND PAY ALL FEES, ASSESSMENTS AND TAXES NECESSARY FOR COMPLETION AND ACCEPTANCE OF WORK. NOTIFY ARCHITECT/ENGINEER AND PROPER AUTHORITIES IN AMPLE TIME WHEN ANY WORK IS READY TO BE INSPECTED OR TESTED.
- VISIT AND EXAMINE JOB SITE AND CHECK WITH UTILITY AUTHORITIES CONCERNED IN ORDER TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PERTINENT TO WORK TO BE PERFORMED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO BE SO INFORMED.
- BIDDERS MUST REVIEW DRAWINGS AND SPECIFICATIONS OF OTHER DISCIPLINES INCLUDING PLANS, DETAILS, DIAGRAMS, NOTES, ETC., IN ORDER TO UNDERSTAND STRUCTURAL CONDITIONS, CONSTRUCTION REQUIREMENTS, CLEARANCES, CAPACITIES AND METHODS OF INSTALLATION AND ERECTION. STRUCTURAL AND OTHER CONDITIONS MAY REQUIRE CERTAIN MODIFICATIONS AND ADJUSTMENTS FROM CONDITIONS SHOWN. SUCH DEVIATIONS ARE PERMISSIBLE; HOWEVER, SPECIFIED SIZES, CAPACITIES AND REQUIREMENTS AFFECTING SATISFACTORY PERFORMANCE AND OPERATION OF INSTALLATION SHALL REMAIN UNCHANGED.
- DUE TO SMALL SCALE OF DRAWINGS, IT IS NOT POSSIBLE TO SHOW ALL FITTINGS OR OFFSETS OR TO SHOW ALL ACCESSORIES. TAKE ADVANTAGE OF AVAILABLE SPACE AND STACK DUCTWORK, PIPING AND ACCESSORIES VERTICALLY AS REQUIRED FOR FIT AND ACCESS.
- CONTRACTOR IS RESPONSIBLE FOR ACCURACY OF CLEARANCES AND FOR COORDINATION WITH OTHER TRADES. NO EQUIPMENT, DUCTWORK, PIPING, ETC. SHALL BE FABRICATED OR INSTALLED WITHOUT FULL COORDINATION. MAKE ALLOWANCE IN BID FOR JOB CONDITIONS AND INTERFERENCES WHICH WILL REQUIRE OFFSETS IN DUCTWORK, PIPING, ETC.
- CONTRACTOR SHALL REMOVE AND RELOCATE, WITHOUT ADDITIONAL COMPENSATION, ANY ITEM THAT IS INSTALLED WITHOUT REQUIRED COORDINATION AND IS FOUND TO BE IN CONFLICT WITH OTHER TRADES. IF FIELD MEASUREMENTS SHOW THAT EQUIPMENT, DUCTWORK, ETC. CANNOT FIT IN THE ALLOTTED SPACE IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING OR INSTALLING THE EQUIPMENT.
- IN EVENT OF CONFLICT, ANY ITEM EXPOSED TO VIEW IN FINISHED WORK SHALL TAKE PRECEDENCE OVER ITEMS, WHICH ARE CONCEALED, SUCH AS DUCTWORK, PIPING, ETC. GENERALLY, DUCTWORK SHALL TAKE PRECEDENCE OVER PIPING UNLESS PIPING REQUIRES A SPECIFIC SLOPE.
- WHenever it becomes necessary to shift equipment or pipes, such changes shall be referred to architect/engineer for approval.
- MAKE ALL NECESSARY ARRANGEMENTS AND PAY ALL COSTS INVOLVED FOR SECURING UTILITY SERVICE CONNECTIONS FROM UTILITY AUTHORITY CONCERNED FOR SERVICES.
- ALL COSTS INCURRED FOR NEW SERVICES SHALL BE INCLUDED IN THE CONTRACTOR'S BID. NO ADDITIONAL COMPENSATION SHALL BE AWARDED FOR FAILURE TO DETERMINE THE COSTS AND TO INCLUDE THEM IN THE BID.
- SUBMIT EQUIPMENT AND FIXTURE PRODUCT DATA SHEETS PRIOR TO RELEASING EQUIPMENT FOR MANUFACTURE OR SHIPMENT. PRODUCT DATA SHEETS SHALL BE MANUFACTURER'S PRINTED LITERATURE SPECIFICALLY MARKED TO INDICATE SIZE AND MODEL NUMBERS OF EQUIPMENT BEING FURNISHED. ALL ACCESSORIES REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE CLEARLY MARKED.
- SYSTEM CAPACITIES FOR AIR CONDITIONING SYSTEMS, FANS, ETC. SHALL BE CLEARLY AND COMPLETELY INDICATED ON A SYSTEM SUMMARY SHEET PREPARED SPECIFICALLY FOR THAT SYSTEM, FAN, ETC. THE SUMMARY SHEET SHALL INDICATE EQUIPMENT NUMBER DESIGNATIONS, MANUFACTURER'S MODEL NUMBERS, CAPACITIES, ELECTRICAL CHARACTERISTICS, ETC. GENERAL DATA SHEETS SHALL NOT BE ACCEPTABLE FOR INDICATING SYSTEM PERFORMANCE.
- ALL DATA SUBMITTED SHALL BE CHECKED AGAINST SPECIFICATIONS AND DRAWINGS. FOR EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, NO APPROVAL SHALL BE FINAL OR DELIVERIES AUTHORIZED UNTIL ELECTRICAL CHARACTERISTICS AND PROVISIONS FOR WIRING ARE COORDINATED AND CLEARED WITH ELECTRICAL SECTION BY LETTER THROUGH CONTRACTOR OR ARCHITECT.
- REVIEW OF PRODUCT SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS FOR SYSTEM CAPACITIES OR FOR FITTING THE EQUIPMENT IN THE ALLOTTED SPACE. REVIEW IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH REQUIREMENTS DESCRIBED IN GENERAL SUPPLEMENTARY AND SPECIAL CONDITIONS OF THE CONTRACT DOCUMENTS PRIOR TO RELEASING EQUIPMENT FOR FABRICATION OR SHIPMENT. SHOP DRAWINGS SHALL CONSIST OF PLANS, SECTIONS, ELEVATIONS AND DETAILS AS REQUIRED TO CLEARLY INDICATE SIZE AND LOCATION OF EQUIPMENT OR PRODUCTS BEING PROVIDED. DRAWINGS SHALL INDICATE REQUIRED CLEARANCES OF EQUIPMENT BEING INSTALLED BY OTHERS AND SHALL SHOW CLEARANCES WITH RELATIONS TO MECHANICAL EQUIPMENT.
- ALL EQUIPMENT SHALL BE PURCHASED FROM AUTHORIZED FACTORY REPRESENTATIVE WITH ESTABLISHED OFFICE IN LOCAL AREA, IF MANUFACTURER HAS SUCH AN OFFICE.
- SUBSTITUTIONS MUST BE REQUESTED IN CONFORMANCE WITH REQUIREMENTS STATED IN THE SUPPLEMENTARY GENERAL CONDITIONS.
- DO ALL EXCAVATION AND BACKFILLING REQUIRED FOR MECHANICAL WORK, UNLESS INDICATED OTHERWISE ON DRAWINGS.
- BACKFILL WITH CLEAN RIVER SAND UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THESE SPECIFICATIONS. KEEP ALL DEBRIS, ROOTS, PIECES OF WOOD AND PIPE, AND OTHER TRASH OUT OF BACKFILL. ADD BACKFILL IN LAYERS NOT EXCEEDING TWELVE INCHES IN DEPTH AND TAMPED TO ORIGINAL DENSITY. REMOVE ALL EXCESS MATERIAL FROM PREMISES.

- INSTALL ALL ITEMS OF MECHANICAL WORK SUCH AS PIPES, DUCTS, ETC., PENETRATING ROOFS A SUFFICIENT DISTANCE FROM WALLS, EAVES, ETC. TO PERMIT PROPER APPLICATION OF FLASHINGS AND COUNTERFLASHINGS.
- FLASH VENT PIPES THROUGH BUILT UP ROOFS AND PITCHED SHINGLE ROOFS WITH FOUR POUND LEAD, WELL TURNED DOWN INTO PIPING AND EXTENDING TWELVE INCHES BEYOND OUTSIDE OF ROOF. PROVIDE LEAD VENT CAP. FOR OTHER TYPES OF ROOFS, CONTRACTOR SHALL PROVIDE SUITABLE TYPES OF FLASHING AS REQUIRED BY THE ROOF MANUFACTURER.
- ROOF DRAINS SHALL BE FLASHED WITH FOUR POUND LEAD, EXTENDING TWELVE INCHES BEYOND OUTSIDE OF DRAIN. FLASHING FURNISHED BY MECHANICAL SECTION TO CONTRACTOR FOR INSTALLATION.
- FLASHINGS AND COUNTERFLASHINGS FOR OTHER THAN VENT PIPES AND DRAINS TO BE OF GAUGES AND CONSTRUCTION SPECIFIED IN ROOFING AND SHEET METAL SECTIONS OF SPECIFICATIONS. COORDINATE WITH ROOFER.
- FLASHING AND COUNTERFLASHINGS SHALL BE FURNISHED UNDER THIS SECTION AND INSTALLED BY THE GENERAL CONTRACTOR.
- THIS SECTION SHALL FURNISH ALL ACCESS PANELS TO CONTRACTOR FOR INSTALLATION, NECESSARY FOR PROPER ACCESS TO DAMPERS, VALVES, TRAPS, CLEANOUTS, FIXTURE CONNECTIONS, MOTORS, DRIVES OR OTHER ITEMS INSTALLED UNDER THIS CONTRACT, EXCEPT WHERE SUCH PANELS ARE SHOWN AND/OR SPECIFIED UNDER OTHER SECTIONS OF SPECIFICATIONS.
- HANG ALL PIPING 1-1/2" AND LARGER ON TEN FOOT MAXIMUM CENTERS, 3/4" TO 1" ON 16" MAXIMUM CENTERS, 1/2" AND BELOW ON 4'-0" MAXIMUM CENTERS.
- HANG ALL CAST IRON PIPING AT EVERY HUB FOR PIPE LENGTHS AND EVERY OTHER HUB FOR FITTINGS GROUPS. SUPPORT VERTICAL RUNS OF PIPING WITH FLAT STEEL BAR CLAMP HANGERS AT EACH FLOOR, OR AS DETAILED ON DRAWINGS.
- HANGERS IN BUILDING SOLID OR SPLIT TYPE SUPPORTED BY VERTICAL STEEL RODS FROM MASONRY INSERTS, EXPANSION SHIELDS OR BEAM CLAMPS. BRASS, COPPER OR LEAD INSERT HANGERS FOR INSULATED COPPER PIPING. PIPING HANGERS BELOW GRADE SHALL BE 1/2" INCH ROUND STAINLESS STEEL.
- PROVIDE GALVANIZED STEEL SADDLE BETWEEN COVERING AND PIPE HANGER ON INSULATED PIPES. PIPE UP TO FOUR INCH DIAMETER, 18 GAUGE X 12 INCHES LONG.
- SUPPORT ALL PIPING INDEPENDENTLY OF ALL EQUIPMENT AND ARRANGE HANGERS TO ISOLATE ANY VIBRATION TRANSMISSION FROM PIPING TO STRUCTURE.
- FURNISH AND INSTALL STEEL SUPPORTS AND FRAMEWORK FOR EACH ITEM OF EQUIPMENT OR FIXTURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR AS DETAILED ON DRAWINGS. ALL SUCH WORK SHALL MEET ALL APPLICABLE REQUIREMENTS SPECIFIED UNDER STRUCTURAL STEEL.
- ALL MECHANICAL WORK SUPPORTED ON WALLS OR PARTITIONS BY MEANS OF APPROPRIATELY SIZED GALVANIZED TOGGLE BOLTS.
- INSTALL ALL PIPING SO THAT IT MAY EXPAND AND CONTRACT FREELY WITHOUT DAMAGE TO EQUIPMENT, OTHER WORK OR INJURY TO PIPING SYSTEM. SUPPORT PIPING INDEPENDENTLY OF ALL EQUIPMENT.
- INSTALL UNIONS ADJACENT TO ALL SCREWED COCKS, CONTROL VALVES, DISCHARGE FROM RELIEF VALVES. FLANGED FITTINGS ARE CONSIDERED EQUIVALENT TO UNION CONNECTIONS.
- INSTALL PIPING PARALLEL AND/OR PERPENDICULAR TO BUILDING FLOOR, WALL OR CEILING PLANES, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- INSTALL ALL PIPING CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE, MAKING ALL NECESSARY OFFSETS, TURNS, ETC., NECESSARY TO CONCEAL PIPING FROM VIEW.
- NO PIPING OF DISSIMILAR METALS PLACED IN CONTACT WITH EACH OTHER. PROVIDE INSULATING UNIONS WHENEVER PIPING OF DISSIMILAR METALS IS JOINED. INSULATING COUPLINGS NOT ACCEPTABLE.
- ALL POWER WIRING AND ALL DISCONNECT SWITCHES FURNISHED AND INSTALLED UNDER DIVISION 16, ELECTRICAL.
- PRIOR TO THE FINAL RELEASE FOR MANUFACTURE OR SHIPMENT OF ANY EQUIPMENT, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO VERIFY THE AVAILABLE ELECTRICAL SERVICE FOR EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR AND TO PROVIDE EQUIPMENT THAT SUITS THE AVAILABLE SERVICE.
- ANY EQUIPMENT DELIVERED TO THE SITE WITH INCORRECT VOLTAGE OR PHASE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- AFTER FINAL TESTING, CLEAN ALL FIXTURES, PIPES AND EXPOSED WORK THOROUGHLY CLEAN AND POLISH PLATED AND OTHER FINISHED PRODUCTS.
- PIPING TO BE FREE OF ALL OBSTRUCTIONS. REMOVE ALL DEBRIS, SURPLUS AND WASTE MATERIALS COMPLETELY FROM THE JOB SITE.
- PROPERLY OIL, GREASE AND LUBRICATE ALL MOTORS, PUMPS, ETC., BEFORE STARTING AND UNTIL FINAL ACCEPTANCE OF WORK.
- FURNISH TO ARCHITECT THREE COMPLETE SETS OF PARTS CATALOGS AND OPERATING INSTRUCTIONS BOUND IN LARGE 3-RING BINDERS FOR USE OF MAINTENANCE DEPARTMENT. INCLUDE INFORMATION FOR ALL EQUIPMENT, FIXTURES, ETC. SUBMITTED TO THE ARCHITECT
- MANUFACTURER WARRANTIES FOR ALL MECHANICAL EQUIPMENT FURNISHED ON THE PROJECT SHALL RUN FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION. EXCEPT HVAC SYSTEMS WHERE THE CONTRACTOR SHALL BE PROVIDED WITH MINIMUM FIVE YEARS WARRANTY OF MATERIAL AND LABOR. DURING WARRANTY, CORRECT ANY DEFECTS IN NEW EQUIPMENT, MATERIALS OR WORKMANSHIP, WITHOUT COST TO OWNER FOR EITHER PARTS OR LABOR.
- A COMPETENT AND EXPERIENCED SERVICE AND INSTALLATION MECHANIC SHALL BE EMPLOYED BY THE CONTRACTOR TO START AND ADJUST ALL EQUIPMENT. THE ARCHITECT RESERVES THE RIGHT TO REQUIRE THE TEST OF ANY ITEM OF EQUIPMENT OR MACHINERY. SUCH TESTS SHALL BE CONDUCTED BY THE CONTRACTOR IN THE PRESENCE OF THE ARCHITECT, ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
- OBTAIN THE SERVICES OF AN INDEPENDENT AIR BALANCE AND TESTING AGENCY WHICH SPECIALIZES IN THE TESTING AND BALANCING OF HVAC SYSTEMS. TO TEST, ADJUST, AND BALANCE ALL SUPPLY, RETURN, EXHAUST SYSTEMS AND KITCHEN AIR SYSTEMS. ALL WORK TO BE PERFORMED IN COMPLETE ACCORDANCE WITH THE ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS FOR FIELD MEASUREMENTS AND INSTRUMENTATION, LATEST ADDITION, THOSE SECTIONS APPLICABLE TO AIR / WATER DISTRIBUTION.
- AS CONSTRUCTION PROGRESSES, TEST PIPING AND EQUIPMENT TO PRESSURE HEREINAFTER SPECIFIED. WHERE PRESSURES ARE NOT MENTIONED, TEST TO ONE AND ONE HALF TIMES SERVICE CONDITIONS BEFORE CONCEALING OR INSULATING.
- FLUSH ALL SYSTEMS UNTIL CLEAR WATER FLOWS OR AS HEREINAFTER SPECIFIED.
- FURNISH ALL NECESSARY GAUGES, INSTRUMENTS, PUMPS, TEST PLUGS AND TEMPORARY CONNECTIONS. TEST ALL EQUIPMENT UNDER SERVICE CONDITIONS AND MAKE ALL NECESSARY ADJUSTMENTS TO CONTROLS, DAMPERS, VALVES, ETC. TO OBTAIN BEST OPERATION. MAKE INITIAL TESTS WITH BUILDING UNOCCUPIED AND FINAL TESTS UNDER ACTUAL HEATING AND COOLING CONDITIONS.
- GUARANTEE ALL MECHANICAL INSTALLATIONS AGAINST ALL DEFECTS IN EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION. DURING GUARANTEE PERIOD, CORRECT ANY DEFECTS IN NEW EQUIPMENT, MATERIALS OR WORKMANSHIP, WITHOUT COST TO OWNER FOR EITHER PARTS OR LABOR.
- CONTRACTOR'S GUARANTEE INCLUDES PERFORMANCE CAPACITIES AND RATINGS AS SPECIFIED.
- CONTRACTOR SHALL BE FURNISHED A COMPLETE SET OF BLUE LINE PRINTS WHICH SHALL BE MARKED UP BY CONTRACTOR AS WORK PROGRESSES TO REFLECT ALL ITEMS OF INSTALLATION WHICH DIFFER SIGNIFICANTLY FROM WORK SHOWN ON CONTRACT DRAWINGS. AS-BUILT DRAWINGS SHALL BE NEATLY DONE, NOT SKETCHY OR FREE HAND. FINAL PAYMENT WILL BE WITHHELD UNTIL DRAWINGS ARE FURNISHED.
- DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS SHOWN AND/OR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED THE SAME AS IF SHOWN AND/OR CALLED FOR IN THE OTHER.
- FOR ANY POINTS WHICH ARE NOT CLEAR, OR FOR ITEMS AND/OR DETAILS WHICH CONTRACTOR FEELS ARE IN NEED OF CLARIFICATION, CONSULT ARCHITECT/ENGINEER BEFORE SUBMISSION OF PROPOSAL.
- IF NO CLARIFICATIONS ARE REQUESTED PRIOR TO THE BID, THE CONTRACTOR, BY SUBMISSION OF HIS BID, INDICATES HE HAS A CLEAR AND FULL UNDERSTANDING OF THE INTENT OF THE PLANS AND SPECIFICATIONS.

AIR CONDITIONING

- DUCTWORK SHALL BE GALVANIZED STEEL. GAUGE AND CONSTRUCTION STANDARDS SHALL BE IN ACCORDANCE WITH SMACNA MANUALS, LATEST EDITION. DUCT SIZES INDICATED ON DRAWING ARE SHEET METAL SIZES. USE REINFORCEMENT AS LISTED IN LATEST SMACNA LOW PRESSURE SHEET METAL CONSTRUCTION GUIDE, SECURELY HUNG, BRACED AND STIFFENED TO PREVENT BREATHING, RATTLING, VIBRATION AND SAGGING. SUPPORT DUCTWORK IN ACCORDANCE WITH SMACNA.
- UNLESS OTHERWISE NOTED ON THE PLANS, ALL NEW SUPPLY AIR DUCTS, RETURN AIR DUCTS, OUTSIDE AIR DUCTS AND PLENUMS SHALL BE GALVANIZED STEEL, EXTERNALLY INSULATED WITH 2" THICK 3/4 PCF DENSITY INSULATION WITH FOIL FACING (OR 1-1/2" THICK 1-1/2 PCF DENSITY). NEW FLEXIBLE DUCTWORK SHALL BE UL 181 LISTED, CLASS I, FIRE-INSULATED AND PROPERLY SUPPORTED. PROVIDE 9PIN IN FITTING WITH AIR SCOOP AND DAMPER AT EACH ROUND DUCT CONNECTION TO TRUNK DUCT. HARD ROUND DUCT SHALL BE GALVANIZED SPIRAL WITH EXTERNAL INSULATION. EXHAUST DUCTWORK SHALL BE UNLINED GALVANIZED STEEL. ALL DUCTWORK SEAMS SHALL BE SEALED WITH HARD CAST MASTIC.
- WHERE INDICATED ON THE PLANS, ALL NEW DUCTS AND PLENUMS SHALL BE GALVANIZED STEEL WITH 1" THICK 1-1/2 PCF DENSITY ACOUSTICAL LINER.
- ALL DUCT TRANSITIONS SHALL HAVE A SLOPE RATION OF 4:1. PROVIDE DOUBLE WALL TURNING VANES FOR ALL CUT DIRECTIONAL CHANGES OF 45 DEGREES OR MORE.
- PROVIDE ALL VOLUME DAMPERS AND REGULATORS REQUIRED FOR PROPER AIR DISTRIBUTION AND BALANCING OF THE SYSTEM. PROVIDE MULTIBLADE DAMPERS FOR ALL DUCTS 12" DEEP OR LARGER. PROVIDE CEILING ACCESS FOR OPERATING DAMPERS.
- APPROVED TYPE FIRE AND/OR SMOKE DAMPERS SHALL BE PROVIDED WHERE INDICATED ON DRAWINGS AND AS REQUIRED BY THE NFPA.
- ALL GREASE DUCTWORK SHALL BE CONSTRUCTED FROM 16 GA WELDED CARBON STEEL. ANSI/UL 1978 FACTORY-BUILT GREASE DUCTS ARE ACCEPTABLE. DUCTS SHALL BE INSULATED WITH A TWO-LAYER FLEXIBLE WRAP TO PROVIDE TWO-HOUR FIRE-RESISTANCE RATING. INSTALL FYREWRAF ELITE 15 OR APPROVED EQUAL PER MANUFACTURER'S RECOMMENDATION. PROVIDE ACCESS DOORS IN DUCT FOR CLEANING. FABRICATE 4" INSTALL DUCTWORK PER SMACNA AND NFPA 96 STANDARDS.
- DOUBLE WALL SPIRAL DUCT SHALL BE MINIMUM 24 GAUGE, SPIRAL LOCK SEAM, INTERNALLY INSULATED WITH FERROFATED LINER.
- REGISTERS, GRILLES AND DIFFUSERS SHALL BE TITUS, PRICE, CARNES, TUTTLE & BAILEY, METALLAIRE, MILLAIRE OR APPROVED EQUAL. MODEL NUMBERS INDICATED ARE TITUS NUMBERS UNLESS NOTED OTHERWISE.
- CEILING DIFFUSERS SHALL BE INSULATED WITH 3/4" THICK ARMAFLEX II SHEET INSULATION APPLIED WITH FULL COVERAGE ARMSTRONG 520 ADHESIVE.
- CEILING DIFFUSER - MODEL TDC-A-44 ALUMINUM LOUVERED FACED DIFFUSER COMPLETE WITH FULLY ADJUSTABLE PATTERN CONTROL ELEMENTS. SQUARE NECK DIFFUSER SHALL BE FURNISHED WITH SQUARE TO ROUND TRANSITION WHERE REQUIRED (REFER TO PLANS). FURNISH WITH BORDER SUITABLE FOR CEILING SPECIFIED. FINISH SHALL BE SELECTED BY ARCHITECT.
- CEILING RETURN GRILLE - MODEL 350FL ALUMINUM GRILLE WITH 35- BLADE SETTING. SINGLE SET OF BLADES PARALLEL TO THE LONG DIMENSION. FURNISH WITH BORDER SUITABLE FOR CEILING SPECIFIED. PROVIDE MODEL AG-15 OPPOSED BLADE DAMPER. FINISH SHALL BE SELECTED BY ARCHITECT.
- SIDEWALL SUPPLY REGISTER - MODEL 300FL EXTRUDED ALUMINUM, DOUBLE DEFLECTION, FRONT BLADES VERTICAL. ALL BLADES SHALL BE INDIVIDUALLY ADJUSTABLE. PROVIDE MODEL AG-15 OPPOSED BLADE DAMPER AT EACH GRILLE. FURNISH CHANNEL FRAME. REGISTER FINISH SHALL BE SELECTED BY ARCHITECT. MOUNTING SCREWS SHALL MATCH GRILLE COLOR.
- EQUIPMENT INSTALLED COMPLETE WITH REFRIGERANT PIPING OF SIZES AS RECOMMENDED BY MANUFACTURER, OR AS SHOWN ON THE DRAWINGS. PIPING SHALL BE TYPE 'ACR' COPPER TUBING WITH WROUGHT COPPER SOLDER JOINT FITTINGS USING SILVER SOLDER. INSTALL PIPING COMPLETE WITH FILTER-DRIER, SIGHT GLASS AND EXPANSION VALVE.
- PROVIDE 3/4" THICK FOAMED PLASTIC SLIP-ON TYPE INSULATION ON ALL REFRIGERANT SUCTION LINES. ALL FITTINGS, VALVES AND SURFACES SUBJECT TO SWEATING SHALL BE INSULATED.
- CONDENSATE PIPING SHALL BE TYPE 'L' COPPER TUBING WITH WROUGHT COPPER SOLDER JOINT DRAINAGE TYPE FITTINGS. INSTALL PIPING WITH CLEANOUTS AT EACH CHANGE OF DIRECTION. PROVIDE 1/2" THICK FOAMED PLASTIC SLIP-ON TYPE ON ALL CONDENSATE DRAIN LINES.
- INSTALL WROUGHT IRON OR STEEL PIPE SLEEVES OF SUFFICIENT SIZE FOR PIPING INSTALLATION THAT PASSES THROUGH FLOORS, WALLS, BELOW GRADE AND GRADE BEAMS.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL MECHANICAL EQUIPMENT AS NOTED ON THE EQUIPMENT SCHEDULES.
- NEW REPLACEMENT FILTERS (MINIMUM MERV 8) SHALL BE FURNISHED WITH EACH PIECE OF EQUIPMENT AS REQUIRED AT COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR UNLESS OTHERWISE SPECIFIED, SHALL PROVIDE ALL FOUNDATIONS, SUPPORTS, ETC. NECESSARY FOR PROPERLY SUPPORTING HIS WORK AND EQUIPMENT FURNISHED BY HIM AND SHALL FURNISH AND INSTALL ALL ISOLATION MATERIALS TO PREVENT TRANSMISSION OF VIBRATION TO THE BUILDING STRUCTURE.
- PROVIDE SAFETY FANS FOR ALL PUMPS AND AIR HANDLING UNITS/DUCTS EQUIPPED WITH COILS. EXTEND PAN TO COVER COILS, HEADERS AND VALVES.
- THE CONTRACTOR SHALL OBTAIN THE SERVICES OF AN INDEPENDENT TEST AND BALANCE AGENCY THAT SPECIALIZES IN AND WHOSE BUSINESS IS LIMITED TO THE TESTING AND BALANCING OF AIR CONDITIONING SYSTEMS. ALL FINAL REPORTS SHALL BE SIGNED BY THIS CERTIFIED TEST AND BALANCE ENGINEER AND SHALL INCLUDE HIS OFFICIAL STAMP.
- THE CONTRACTOR SHALL BALANCE ALL WATER AND AIR SERVICES TO THE QUANTITIES SHOWN ON THE DRAWINGS, USING INSTRUMENTS ACCEPTABLE TO THE ARCHITECT. RECORDS OF ALL BALANCING READINGS, ON APPROVED FORMS, SHALL BE KEPT AND SHALL BE DELIVERED TO THE ARCHITECT UPON COMPLETION OF THE PROJECT. ON AIR SUPPLY SYSTEMS INDIVIDUAL OUTLETS SHALL BE BALANCED AND ADJUSTED UNTIL THE SPECIFIED AIR VOLUME IS OBTAINED WITHIN A TOLERANCE OF 10% AND ROOM TEMPERATURES EQUALIZED.
- REFRIGERATION AND HEATING EQUIPMENT SHALL BE ADJUSTED TO PROVIDE THE TEMPERATURES AND CAPACITIES SPECIFIED. CUT-IN AND CUT-OUT POINTS OF ALL AUTOMATIC, PRESSURE, SAFETY AND LIMITS CONTROLS SHALL BE OBSERVED AND ADJUSTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL PIPING, COILS, HEATERS, ETC., INSTALLED FOR HEATING, COOLING, AND OTHER OPERATIONS OF THE BUILDING SHALL BE THOROUGHLY FLUSHED OF ALL DEBRIS AND FOREIGN OBJECTS BEFORE ANY SYSTEM IS PLACED IN OPERATION. AFTER FLUSHING, ALL STRAINERS, TRAPS AND DIRT LEGS SHALL BE CHECKED AND CLEANED. THIS OPERATION MUST BE ACCEPTABLE TO AND APPROVED BY THE ARCHITECT.
- AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE 'DDC' TYPE AS MANUFACTURED BY TRANE CO, HONEYWELL, JOHNSON, OR APPROVED EQUAL. UPON COMPLETION OF INSTALLATION, SYSTEM SHALL BE TESTED AND ADJUSTED BY CONTROL REPRESENTATIVE. HE SHALL COMPLETELY ADJUST, READY FOR USE, ALL THERMOSTATS, VALVES, OPERATORS, ETC. HE SHALL ALSO BE RESPONSIBLE FOR PROPER SEQUENCE OF CONTROL OF ALL EQUIPMENT WHICH INCLUDES HIGH VOLTAGE INTERLOCKING.
- FOR TYPICAL AIR CONDITIONING SYSTEM: PROVIDE ROOM TYPE THERMOSTAT TO CYCLE THE CONDENSING UNIT ON THE COOLING CYCLE AND THE HEAT STRIP AS REQUIRED TO MAINTAIN SPACE CONDITION. THERMOSTAT SHALL BE EQUIPPED WITH H-C-A FOR CONSTANT OR AUTOMATIC FAN OPERATION FOR BOTH COOLING OR HEATING CYCLE. PROVIDE FLOAT SWITCH IN SAFE PAN THAT DE-ENERGIZES THE CONDENSING UNIT IF WATER IS DETECTED.
- STANDARDS OF MATERIAL AND WORKMANSHIP AS REQUIRED BY NATIONAL ELECTRICAL CODE, SHALL APPLY TO ALL ELECTRICAL WORK REQUIRED AS PART OF THIS SECTION. IN ADDITION, ALL SPLICES IN LOW VOLTAGE CONTROL WIRING SHALL BE MADE AT TERMINAL BLOCKS FURNISHED FOR THE PURPOSE; ANY SPLICES NOT MADE AT TERMINAL BLOCKS SHALL BE SOLDERED.
- IN UNIT UNDER 5 TONS, PROVIDE FIRESTAT IN RETURN AIR WIRE TO STOP FAN IF TEMPERATURE RISES ABOVE SETPOINT.
- POWER WIRING WILL BE PROVIDED UNDER ELECTRICAL SECTION, BUT ALL CONTROL WIRING AND CONDUIT AND CONTROL DISCONNECTS FURNISHED AND INSTALLED BY THIS CONTRACTOR.
- WHERE THERE IS A BUILDING FIRE ALARM, THE SMOKE DETECTOR SHALL BE ADDRESSABLE AND SHALL BE RESETTABLE THROUGH THE FIRE ALARM PANEL. WHERE THERE IS NO FIRE ALARM SYSTEM, PROVIDE A REMOTE WALL MOUNTED ALARM INDICATOR PANEL ADJACENT TO THE UNIT THERMOSTAT (OR AS INDICATED ON THE PLANS) ALONG WITH A REMOTE KEY SWITCH TO ALLOW REMOTE RESETTING OF THE SMOKE ALARM.



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MECHANICAL
SPECIFICATIONS

M100

AIR CONDITIONING SYSTEM SCHEDULE																					
SYSTEM NO.	NOMINAL TONS	AIR CAPACITY			COOLING CAPACITY					AIR HANDLING UNIT			ELECTRIC HEAT		CONDENSING UNIT			REMARKS			
		TOTAL CFM	MINIMUM O.A. CFM	EXT. S.P. INCHES	TOTAL MBH	SENSIBLE MBH	ENTERING		LEAVING		MAX. COIL FACE VEL.	TRANE CO. MODEL NO.	MOTOR HP	WEIGHT LBS.	KW AT 240V/1PH	CONTROL STEPS	TRANE CO. MODEL NO.		VOLTS/PH.	UNIT MCA MCA/MOCP	WEIGHT LBS.
							DB F	WB F	DB F	WB F											
AC-1	5	1850	370	0.7	60.1	35.4	71.9	68.2	57.6	56.5	500	TEM6A0C60	3/4	180	14.4	2	4TTR0060	240/1	27/45	280	1, 2, 3
AC-2	3.5	1315	240	0.7	41.8	29.3	76.5	64.8	55.8	54.6	500	TEM6A0C42	1/2	150	7.68	1	4TTR0042	240/1	21/35	255	1, 2, 3

- REFRIGERANT PIPING SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- AIR UNIT AND ELECTRIC HEATER SECTION SHALL INCORPORATE SINGLE POINT ELECTRICAL CONNECTION.
- VERIFY AVAILABLE ELECTRIC PRIOR TO RELEASE OF EQUIPMENT.

EXHAUST FAN SCHEDULE										
FAN DESIG.	TYPE	BALANCE CFM	SELECTION CFM	S.P. IN INCHES	RPM	MOTOR DATA			GREENHECK MODEL NO.	REMARKS
						HP	VOLTS	PH.		
EF-1	CEILING MOUNTED	70	95	0.375	950	1/10	120	1	6P-B110	1, 2, 3, 4

- FAN SHALL BE SELECTED BASED ON SELECTION CFM AND STATIC PRESSURE LISTED.
FAN SHALL BE BALANCED IN FIELD TO BALANCE CFM INDICATED.
- SWITCH WITH LIGHTS.
- PROVIDE SOLID STATE SPEED SWITCH MOUNTED ON FAN.
- PROVIDE BACK DRAFT DAMPER AND DISCONNECT SWITCH.

DIFFUSER SCHEDULE - ROUND NECK					
CFM RANGE	CEILING TYPE	NECK SIZE	FLEX DUCT CONN SIZE	MAX FLEX LENGTH	REMARKS
50-100	LAY-IN OR GYP	8X8	6"	12'	1, 2
101-200	LAY-IN OR GYP	12X12	8"	12'	1, 2
201-275	LAY-IN OR GYP	12X12	10"	12'	1, 2
276-325	LAY-IN OR GYP	12X12	12"	12'	1, 2
326-400	LAY-IN OR GYP	15X15	12"	12'	1, 2
401-450	LAY-IN OR GYP	15X15	14"	12'	1, 2
451-550	LAY-IN OR GYP	18X18	14"	12'	1, 2
551-700	LAY-IN OR GYP	18X18	16"	12'	1, 2

- SIZES BASED ON TITUS MODEL TDCA-AA ALL ALUMINUM ADJUSTABLE DIFFUSER - REFER TO SPECS FOR EXACT TYPE REQUIRED.
- WHERE INDICATED ON PLANS TO HAVE ROUND DUCT CONNECTION, FURNISH DIFFUSER WITH SQUARE TO ROUND TRANSITION - FRAME STYLE TO SUIT CEILING (DROP BEVELED FACE FOR GYP BD CEILING)

SPECIFIC NOTES:

- EXISTING 3-TON AIR HANDLER ABOVE CEILING TO REMAIN. CLEAN & RESTORE TO PROPER OPERATING CONDITION. BALANCE SYSTEM TO AIR FLOW SHOWN. RELOCATE & RECALIBRATE EXISTING THERMOSTAT. VERIFY INSTALLATION OF OUTSIDE AIR INTAKE. IF OUTSIDE AIR DUCT NOT INSTALLED, CONTRACTOR SHALL CONNECT AN 8X6 DUCT TO THE RETURN AIR FLENUM AND ROUTE TO A NEW ROOF COUL. INSTALL A MYD IN THE DUCT. BALANCE TO 150 CFM. MODIFY EXISTING ROOF AS REQUIRED. PENETRATION SHALL BE WATER TIGHT.
- EXISTING REGISTER/GRILLE TO REMAIN. CLEAN & RESTORE TO PROPER OPERATING CONDITION. COORDINATE WITH ARCHITECT IF REGISTER/GRILLE TO BE PAINTED TO MATCH WALL.
- INSTALL NEW DIFFUSER. CONNECT TO EXISTING FLEX DUCT. BALANCE TO AIR QUANTITY SHOWN.
- INSTALL NEW DIFFUSER AND FLEX DUCT. PROVIDE SPIN-IN FITTING AT TRUNK DUCT CONNECTION. MODIFY EXISTING DUCT AS REQUIRED. FIELD VERIFY ROUTING OF TRUNK DUCT PRIOR TO FABRICATION & INSTALLATION.
- REMOVE EXISTING WALL RETURN AIR GRILLE AND DUCTWORK. INSTALL NEW CEILING RETURN AIR GRILLE. INSTALL NEW DUCTWORK AND CONNECT TO EXISTING AIR HANDLER. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION & INSTALLATION.
- EXISTING CONDENSING UNIT TO BE RELOCATED FROM REAR YARD TO ROOF. MODIFY EXISTING REFRIGERANT PIPING & INSULATION AS REQUIRED. SEE DETAIL FOR ROOF INSTALLATION.

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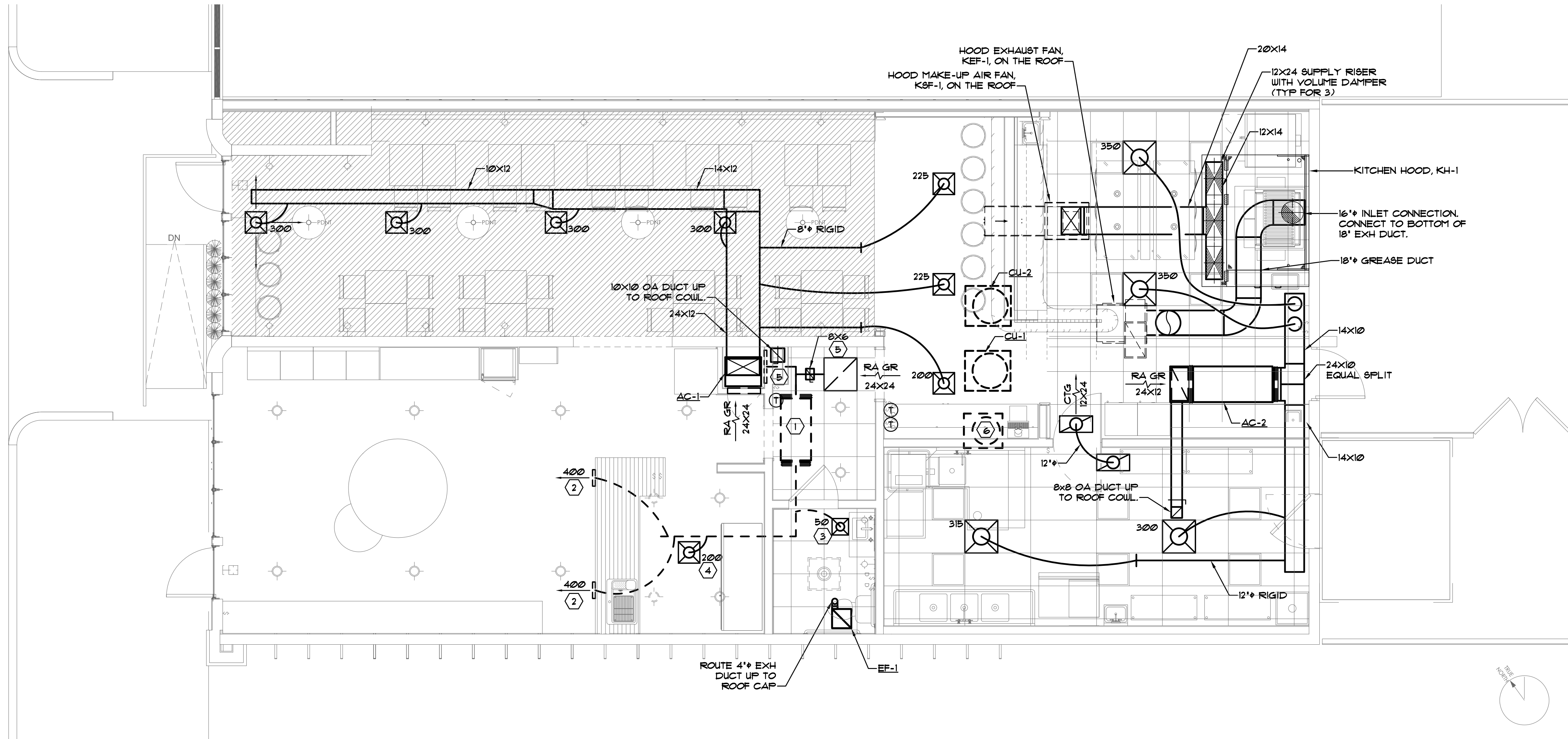
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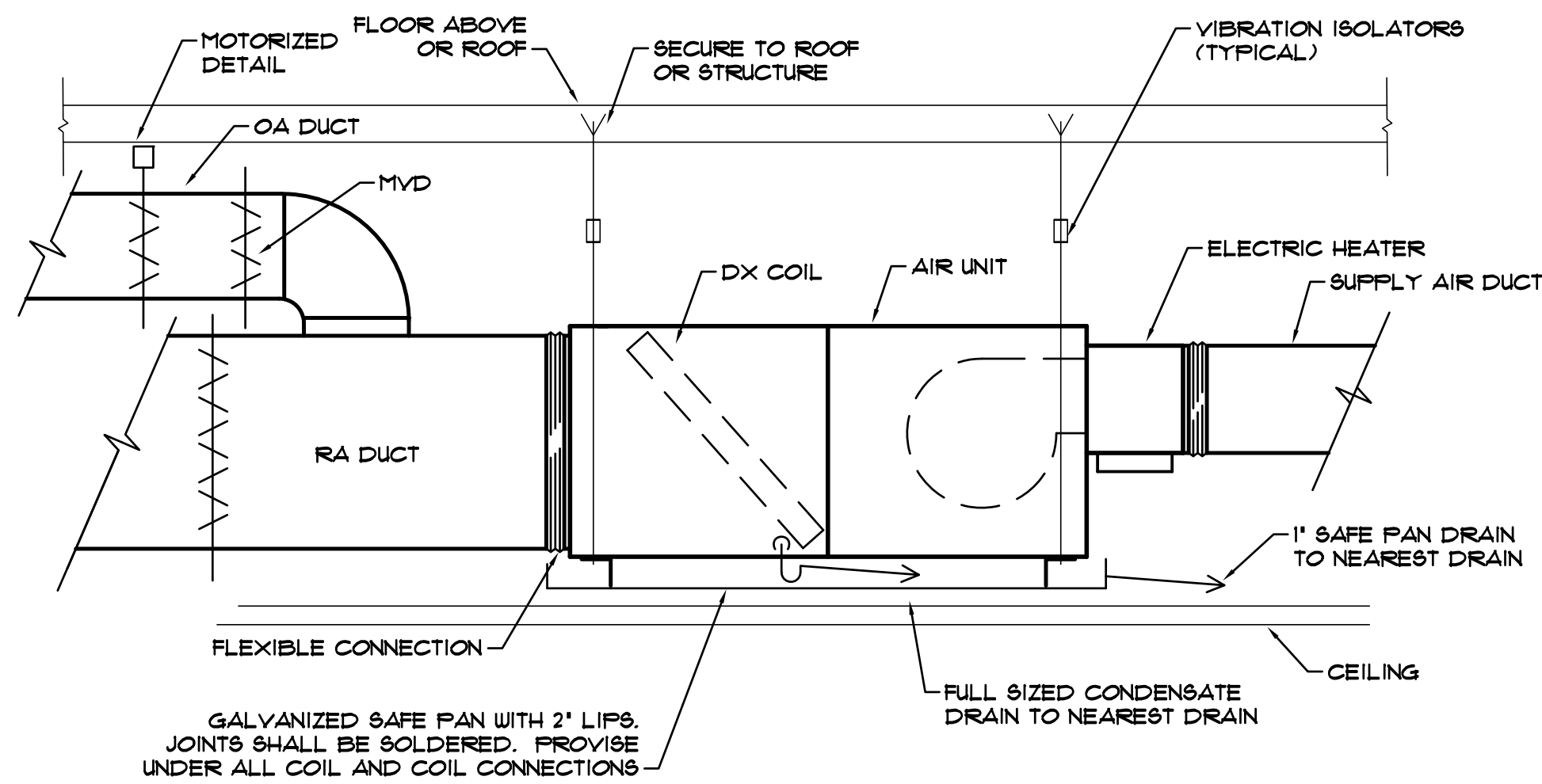
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FIRST FLOOR
MECHANICAL

M101

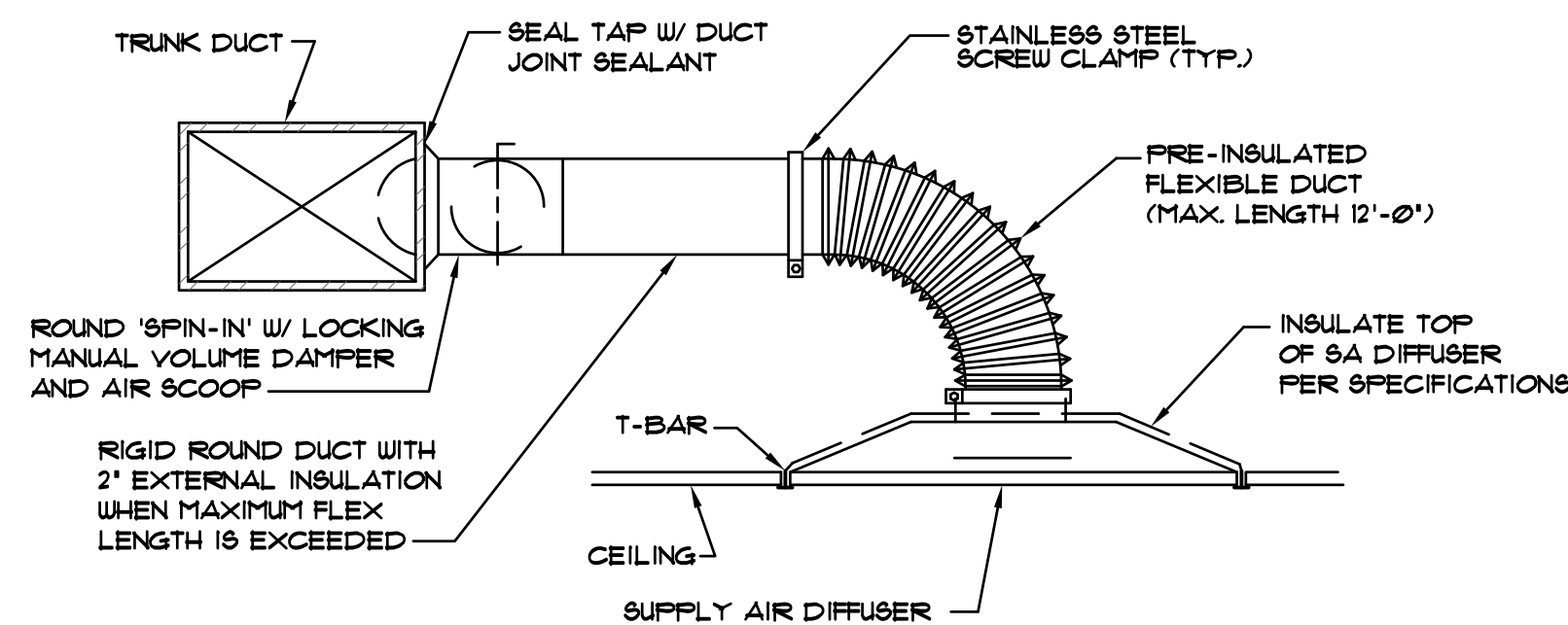


1 FLOOR PLAN - MECHANICAL
1/4" = 1'-0"

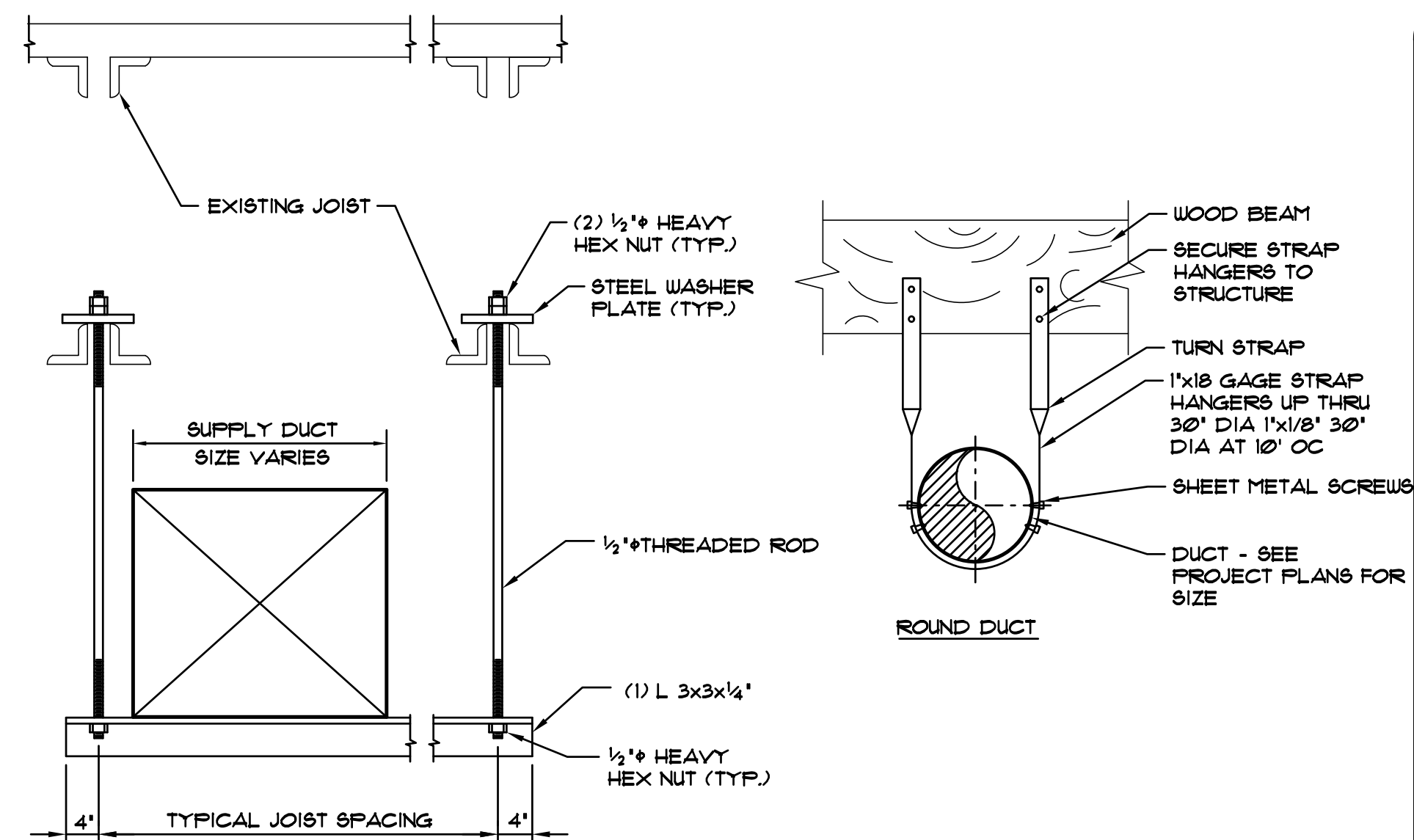


- NOTES:
- ON UNITS UNDER 5 TONS PROVIDE FIRESTAT IN THE RETURN AIR WIRED TO SHUT DOWN THE UNIT WHEN TEMPERATURE IS EXCEEDED.
 - ON UNITS 5 TONS AND LARGER, PROVIDE A SMOKE DETECTOR IN THE SUPPLY AND THE RETURN AIR DUCTS WIRED TO SHUT DOWN THE UNIT WHEN SMOKE IS DETECTED.

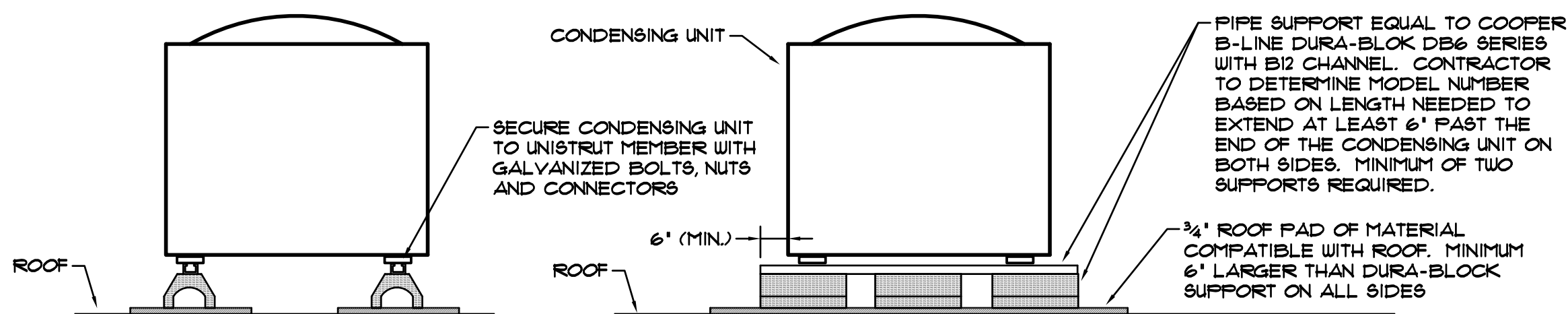
AIR HANDLING UNIT INSTALLATION DETAIL
NOT TO SCALE



SPIN-IN & CEILING DIFFUSER DETAIL
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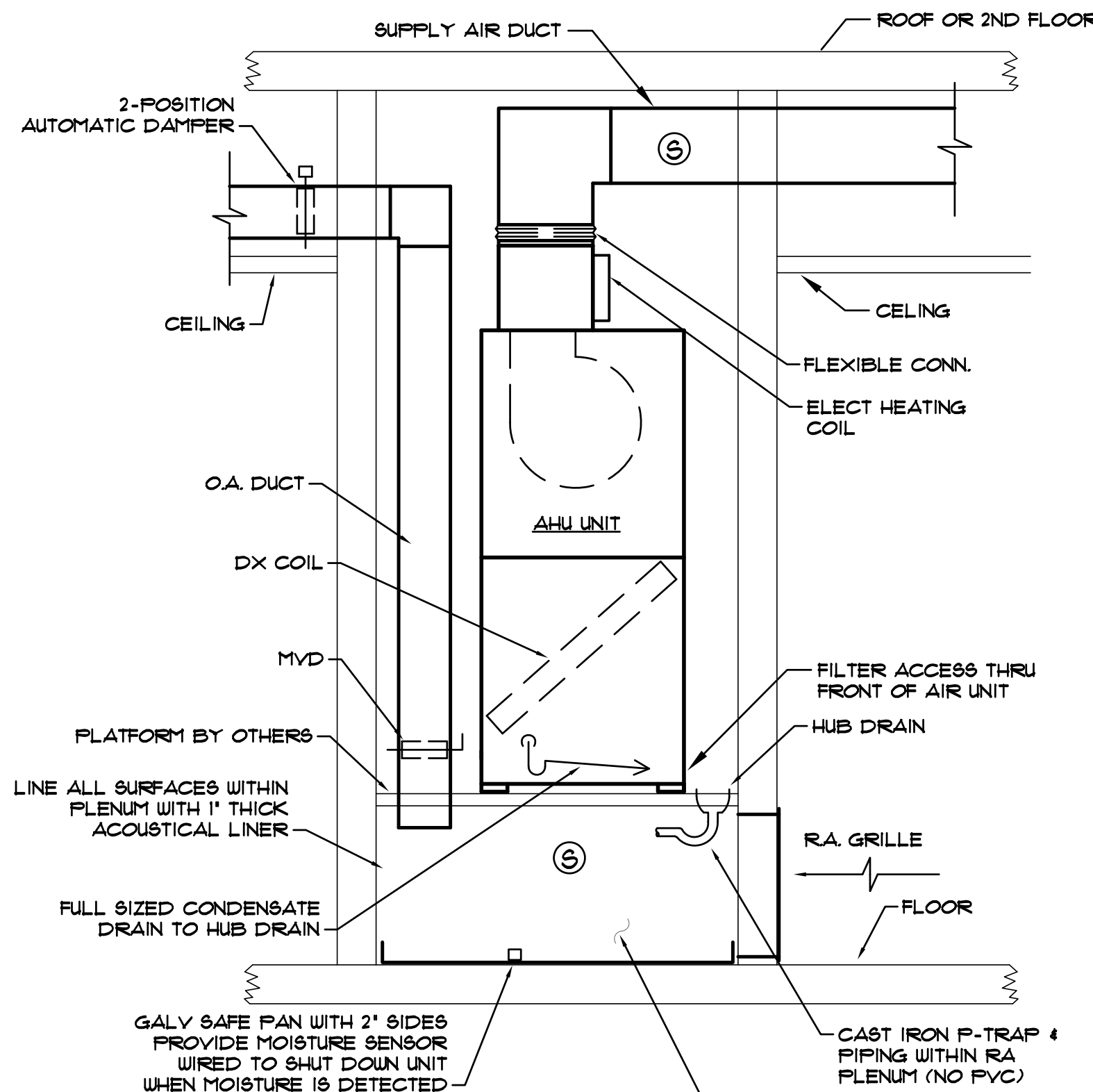


DUCT HANGER DETAILS
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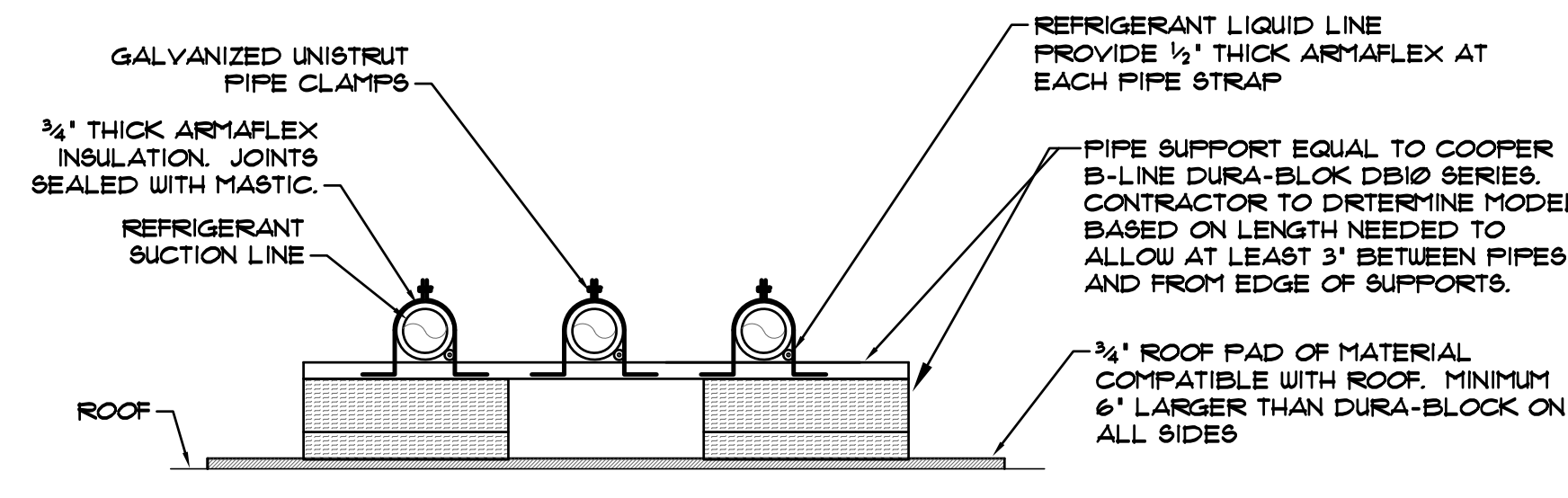
- NOTES:
- FINAL LENGTH, WIDTH AND THICKNESS SHALL BE AS REQUIRED BY THE ROOF MANUFACTURE. COORDINATE REQUIREMENTS WITH ROOFER ON SITE OR AUTHORIZED REPRESENTATIVE OF THE ROOF (NEW OR EXISTING).
 - ALL MEMBERS OF THE ROOF SUPPORTS, INCLUDING NUTS, BOLTS, ETC., SHALL BE GALVANIZED.

ROOF MOUNTED CONDENSING UNIT MOUNTING DETAIL
NOT TO SCALE



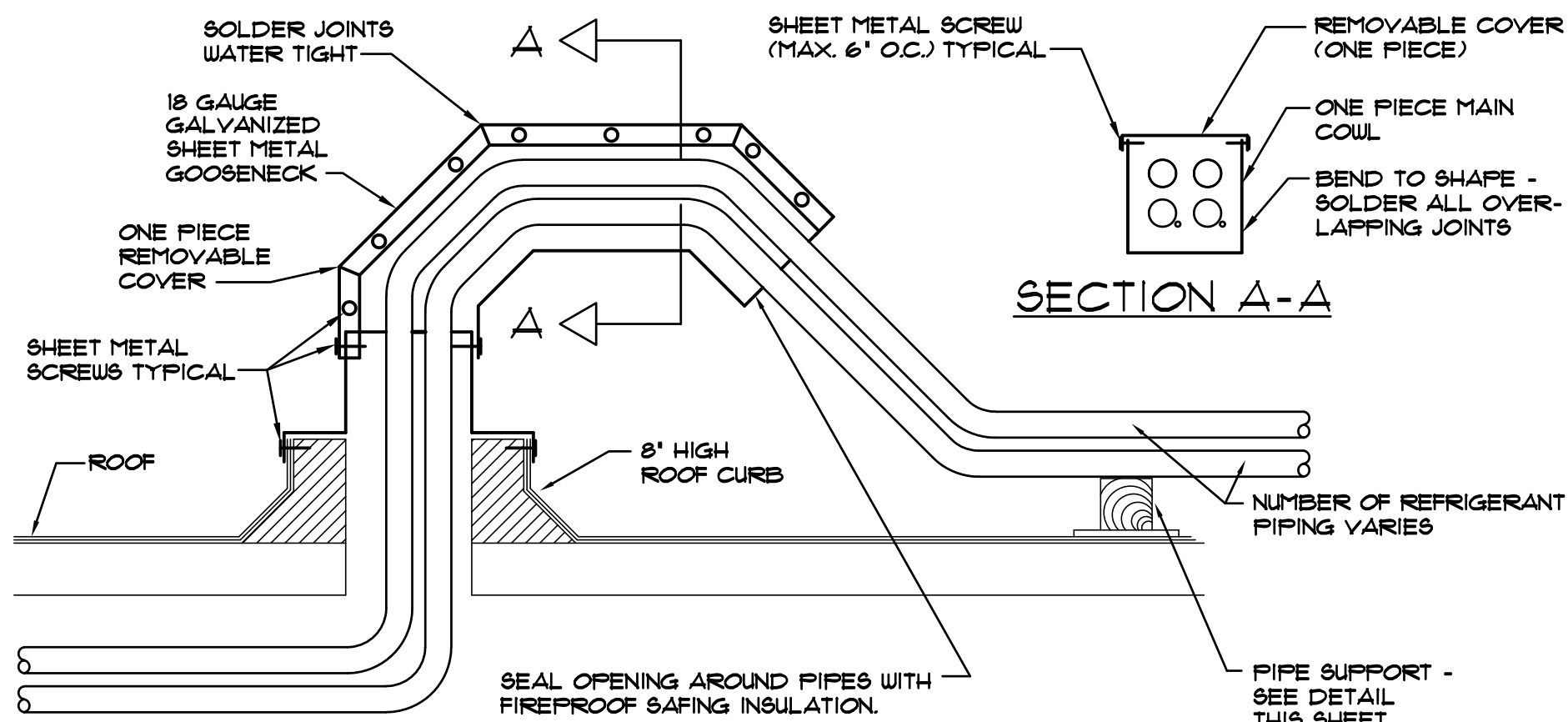
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AIR HANDLING UNIT INSTALLATION DETAIL
NOT TO SCALE

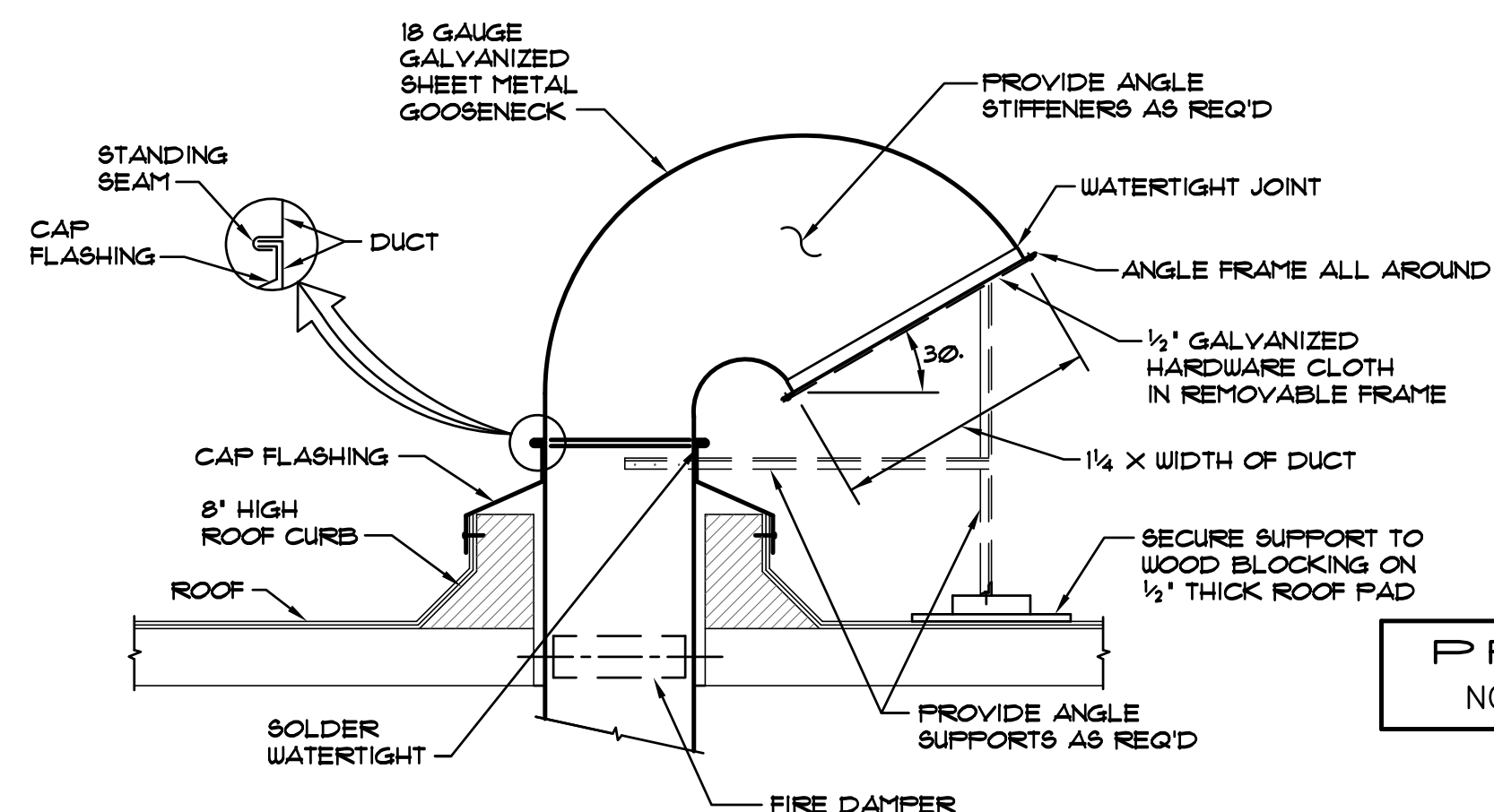


NOTE: PROVIDE PIPE SUPPORTS AT 4'-0\"/>

REFRIGERANT PIPE SUPPORT DETAIL
NOT TO SCALE



REFRIGERANT PIPING ROOF PENETRATION DETAIL
NOT TO SCALE



NOTE: ALL MATERIALS, FASTENERS, ETC. SHALL BE GALVANIZED

ROOF COUL DETAIL
NOT TO SCALE

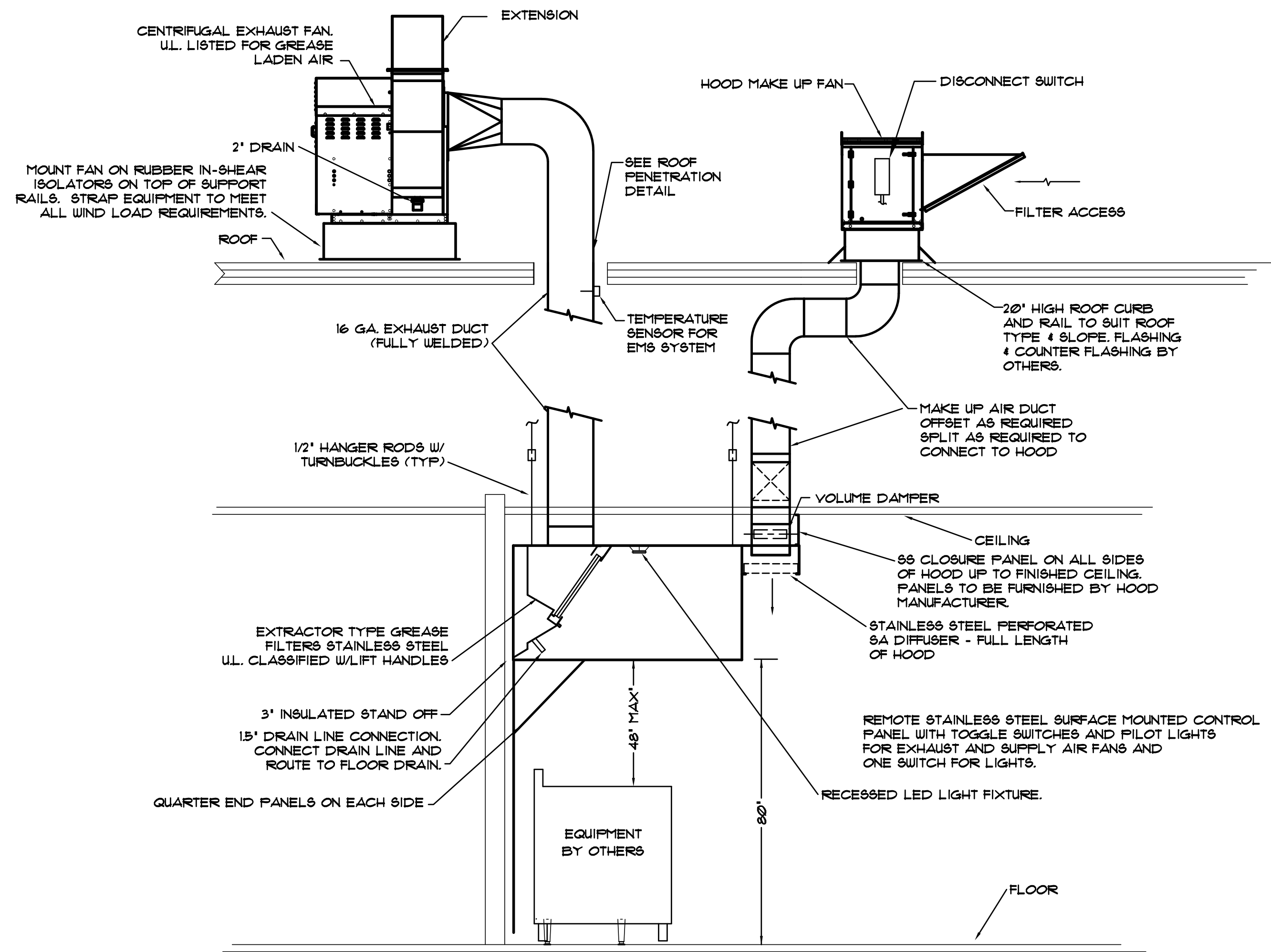
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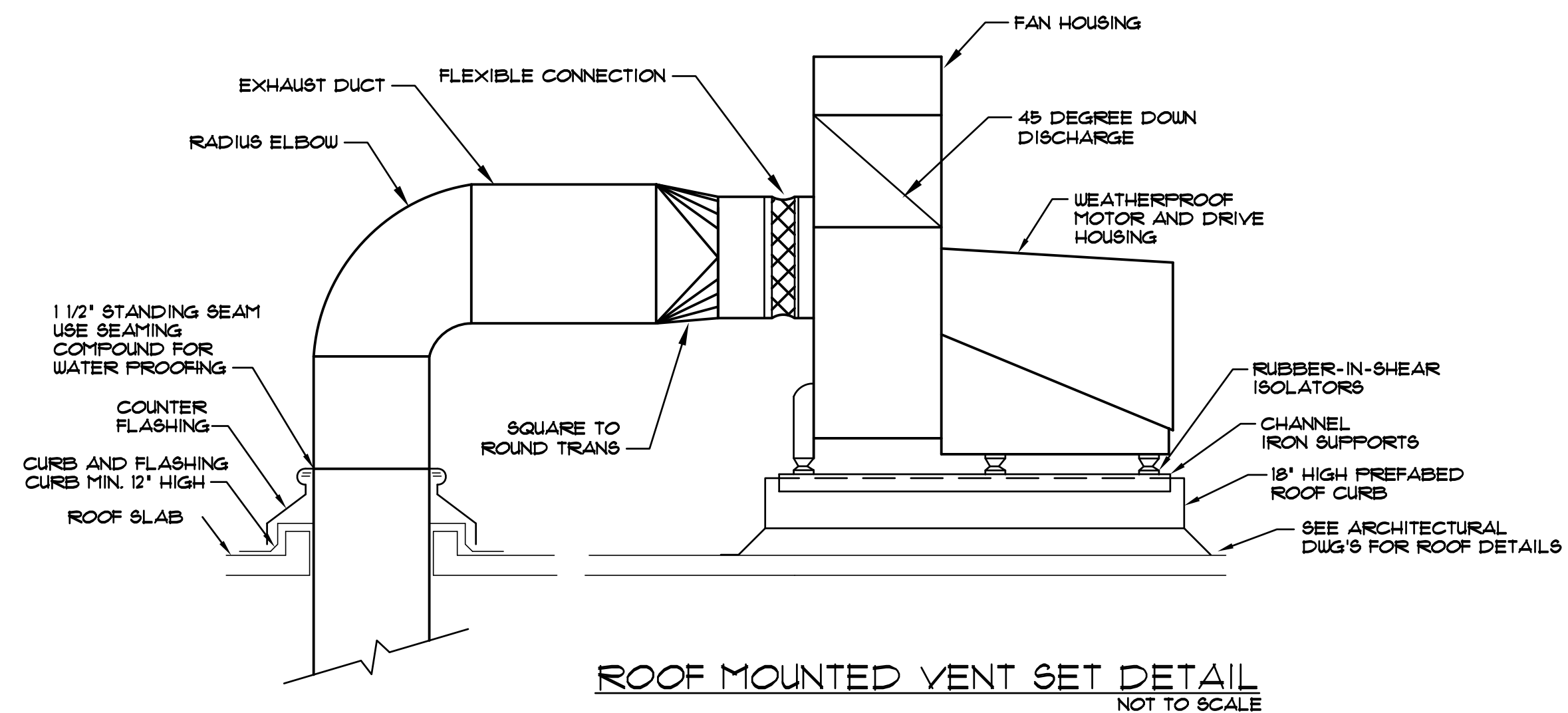
MECHANICAL
DETAILS

M102



TYPICAL KITCHEN EXHAUST HOOD INSTALLATION DETAIL

NOTES:
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING 300' AIR AND
 MUST BE ABLE TO OPERATE FOR 15 MINUTES WHILE EXHAUSTING 600' AIR



ROOF MOUNTED VENT SET DETAIL
 NOT TO SCALE

HOOD INFORMATION

TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG				
									WIDTH	LENG	HEIGHT	DIA			CFM	VEL	SP	END TO END	ROW
KH-1	6030 ND-2-PSP-F	CAPTIVEAIRE	1'-0"	100 DEG	I	EXTRA-HEAVY	350	2450			4'	16"	2450	1755	-1.103'	1911	430 SS 100%	ALONE	ALONE

TAG	FILTER(S)					LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 1 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL			SWITCHES
KH-1	CAPTATE SOLO FILTER	5	20'	16'	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	RIGHT	12'x60'x30'	CORE PROTECTION	Ø	9C-311101A	1 LIGHT 1 FAN	YES	849 LBS

1. PROVIDE FIELD WRAPPERS, BACKSPASH, AND END PANELS.
2. PROVIDE CORE PROTECTION.
3. PROVIDE PUSH/FULL STATION, DUCT FIRE THERMOSTAT.

EXHAUST FAN INFORMATION

TAG	QTY	FAN UNIT MODEL *	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
KEF-1	1	U8B10DD-R1	CAPTIVEAIRE	2450	1650	1316	TEFC, PREMIUM	1500	12900	3	208	6.5	1256 FPM	436	19.2

1. PROVIDE GREASE CUP, 24" DISCHARGE EXTENSION, FLANGED CONNECTIONS, HIGH TEMPERATURE HEAT & SMOKE OPTION AND DISCONNECT SWITCH.
2. PROVIDE CURB ASSEMBLY.

MUA FAN INFORMATION

TAG	QTY	FAN UNIT MODEL *	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
KSF-1	1	A1-15D-MFU	15MF-1-MOD	A1	1800	1911	0.500	1819	ODFPREMIUM	1500	10540	3	208	4.4	5.5A	15A	1073	25

1. PROVIDE CURB ASSEMBLY.

NOT FOR
 CONSTRUCTION

SHELBY'S
 1526 MAGAZINE ST | NEW ORLEANS, LA | 70130

ISSUE:
 HDLC
 DATE:
 08 APRIL 2022

PRELIMINARY
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MECHANICAL
 DETAILS

M103

GENERAL NOTES:

- WORK REQUIRED UNDER THIS SECTION CONSISTS OF ALL MECHANICAL WORK AND RELATED ITEMS NECESSARY TO COMPLETE THE WORK INDICATED ON THE DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS. WORK INCLUDED: WITHOUT RESTRICTING VOLUME OR GENERALITY OF ABOVE EXTENT WORK PERFORMED UNDER THIS SECTION SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING NOTES.
- SPECIFICATIONS AND ACCOMPANYING DRAWINGS ARE INTENDED TO SHOW AND DESCRIBE COMPLETE MECHANICAL INSTALLATION, FULLY ERECTED, PROPERLY INSTALLED IN WORKMANLIKE MANNER AND LEFT IN PROPER OPERATING CONDITION, WITH CONTRACTOR FURNISHING AND INSTALLING EVERYTHING NECESSARY TO COMPLETE THE JOB.
- FURNISH ALL LABOR, EQUIPMENT, TOOLS, MATERIALS, ACCESSORIES, ETC., FOR ALL ROUGH-INS AND FINAL CONNECTIONS, COMPLETE, FOR ALL EQUIPMENT INDICATED ON THE DRAWINGS, OR EQUIPMENT FURNISHED BY OTHERS.
- CHECK MECHANICAL SPECIFICATIONS AND DRAWINGS WITH REMAINDER OF SET, AND BRING TO ARCHITECT'S ATTENTION ANY CONFLICTS OR VARIATIONS AS SOON AS NOTED.
- ADEQUATELY PROTECT AGAINST INJURY ALL INSTALLED AND EXISTING MATERIAL, EQUIPMENT, MOTORS, FIXTURES, PIPING, INSULATION, ETC.
- REPLACE LOST OR DAMAGED ITEMS PRIOR TO ACCEPTANCE OF WORK.
- ADEQUATE AND COMPETENT SUPERVISION SHALL BE PROVIDED BY THIS SECTION TO ASSURE THAT WORK IS DONE IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND WORKMANSHIP AND WITH INTENT OF DRAWINGS AND SPECIFICATIONS.
- ALL CONTRACTORS SUBMITTING BIDS FOR THE WORK UNDER THIS CONTRACT SHALL BE SPECIALISTS IN THEIR FIELD AND SHALL HAVE THE PERSONAL EXPERIENCE, TRAINING AND SKILL TO CONSTRUCT A PROPERLY OPERATING MECHANICAL SYSTEM AS DESCRIBED BY THE CONTRACT DRAWINGS.
- IF REQUIRED, THE CONTRACTOR SHALL BE ABLE TO FURNISH EVIDENCE OF HAVING NOT LESS THAN THREE YEARS EXPERIENCE AND HAVING BEEN RESPONSIBLE FOR AT LEAST THREE PROJECTS COMPARABLE IN SIZE AND COMPLEXITY TO THIS ONE.
- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH BEST STANDARDS OF PRACTICE BY WORKMEN SKILLED AND QUALIFIED IN TYPE OF WORK TO BE DONE. SCHEDULE AND PERFORM MECHANICAL WORK TO AVOID DELAYS TO PROJECT.
- ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL EXISTING LOCAL, PARISH, STATE AND NATIONAL CODES AND ORDINANCES HAVING JURISDICTION. SUCH CODES INCLUDE, BUT ARE NOT LIMITED TO, IBC, IMC, IFC, IFB, NFPA, LA STATE PLUMBING CODE, ETC. LOCAL CODES SHALL TAKE PRECEDENCE OVER STATE CODES WHICH SHALL TAKE PRECEDENCE OVER NATIONAL CODES AND INDUSTRY STANDARDS.
- IF ANY CONFLICTS ARE FOUND BETWEEN SPECIFICATIONS AND DRAWINGS AND ABOVE AUTHORITIES, NOTIFY ARCHITECT AS SOON AS CONFLICTS ARE DISCOVERED AND ABOVE CODES AND REQUIREMENTS WILL GOVERN.
- SECURE ALL PERMITS AND INSPECTIONS AND PAY ALL FEES, ASSESSMENTS AND TAXES NECESSARY FOR COMPLETION AND ACCEPTANCE OF WORK. NOTIFY ARCHITECT/ENGINEER AND PROPER AUTHORITIES IN AMPLE TIME WHEN ANY WORK IS READY TO BE INSPECTED OR TESTED.
- VISIT AND EXAMINE JOB SITE AND CHECK WITH UTILITY AUTHORITIES CONCERNED IN ORDER TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PERTINENT TO WORK TO BE PERFORMED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO BE SO INFORMED.
- BIDDERS MUST REVIEW DRAWINGS AND SPECIFICATIONS OF OTHER DISCIPLINES INCLUDING PLANS, DETAILS, DIAGRAMS, NOTES, ETC., IN ORDER TO UNDERSTAND STRUCTURAL CONDITIONS, CONSTRUCTION REQUIREMENTS, CLEARANCES, CAPACITIES AND METHODS OF INSTALLATION AND ERECTION. STRUCTURAL AND OTHER CONDITIONS MAY BE MODIFIED BY CERTAIN CONDITIONS AND ADJUSTMENTS FROM CONDITIONS SHOWN. SUCH DEVIATIONS ARE FERTISSIBLE; HOWEVER, SPECIFIED SIZES, CAPACITIES AND REQUIREMENTS AFFECTING SATISFACTORY PERFORMANCE AND OPERATION OF INSTALLATION SHALL REMAIN UNCHANGED.
- DUE TO SMALL SCALE OF DRAWINGS, IT IS NOT POSSIBLE TO SHOW ALL FITTINGS OR OFFSETS OR TO SHOW ALL ACCESSORIES. TAKE ADVANTAGE OF AVAILABLE SPACE AND STACK DUCTWORK, PIPING AND ACCESSORIES VERTICALLY AS REQUIRED FOR FIT AND ACCESS.
- CONTRACTOR IS RESPONSIBLE FOR ACCURACY OF CLEARANCES AND FOR COORDINATION WITH OTHER TRADES. NO EQUIPMENT, DUCTWORK, PIPING, ETC. SHALL BE FABRICATED OR INSTALLED WITHOUT FULL COORDINATION. MAKE ALLOWANCE IN BID FOR JOB CONDITIONS AND INTERFERENCES WHICH WILL REQUIRE OFFSETS IN DUCTWORK, PIPING, ETC.
- CONTRACTOR SHALL REMOVE AND RELOCATE, WITHOUT ADDITIONAL COMPENSATION, ANY ITEM THAT IS INSTALLED WITHOUT REQUIRED COORDINATION AND IS FOUND TO BE IN CONFLICT WITH OTHER TRADES. IF FIELD MEASUREMENTS SHOW THAT EQUIPMENT, DUCTWORK, ETC. CANNOT FIT IN THE ALLOTTED SPACES IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING OR INSTALLING THE EQUIPMENT.
- IN EVENT OF CONFLICT, ANY ITEM EXPOSED TO VIEW IN FINISHED WORK SHALL TAKE PRECEDENCE OVER ITEMS WHICH ARE CONCEALED, SUCH AS DUCTWORK, PIPING, ETC. GENERALLY, DUCTWORK SHALL TAKE PRECEDENCE OVER PIPING UNLESS PIPING REQUIRES A SPECIFIC SLOPE.
- WHenever it becomes necessary to shift equipment or pipes, such changes shall be referred to ARCHITECT/ENGINEER FOR APPROVAL.
- MAKE ALL NECESSARY ARRANGEMENTS AND PAY ALL COSTS INVOLVED FOR SECURING UTILITY SERVICE CONNECTIONS FROM UTILITY AUTHORITY CONCERNED FOR SERVICES.
- ALL COSTS INCURRED FOR NEW SERVICES SHALL BE INCLUDED IN THE CONTRACTOR'S BID. NO ADDITIONAL COMPENSATION SHALL BE AWARDED FOR FAILURE TO DETERMINE THE COSTS AND TO INCLUDE THEM IN THE BID.
- SUBMIT EQUIPMENT AND FIXTURE PRODUCT DATA SHEETS PRIOR TO RELEASING EQUIPMENT FOR MANUFACTURE OR SHIPMENT. PRODUCT DATA SHEETS SHALL BE MANUFACTURER'S PRINTED LITERATURE SPECIFICALLY MARKED TO INDICATE SIZE AND MODEL NUMBERS OF EQUIPMENT BEING FURNISHED. ALL ACCESSORIES REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE CLEARLY MARKED.
- SYSTEM CAPACITIES FOR AIR CONDITIONING SYSTEMS, FANS, ETC. SHALL BE CLEARLY AND COMPLETELY INDICATED ON A SYSTEM SUMMARY SHEET PREPARED SPECIFICALLY FOR THAT SYSTEM, FAN, ETC. THE SUMMARY SHEET SHALL INDICATE EQUIPMENT NUMBER DESIGNATIONS, MANUFACTURER'S MODEL NUMBERS, CAPACITIES, ELECTRICAL CHARACTERISTICS, ETC. GENERAL DATA SHEETS SHALL NOT BE ACCEPTABLE FOR INDICATING SYSTEM PERFORMANCE.
- ALL DATA SUBMITTED SHALL BE CHECKED AGAINST SPECIFICATIONS AND DRAWINGS. FOR EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, NO APPROVAL SHALL BE FINAL OR DELIVERIES AUTHORIZED UNTIL ELECTRICAL CHARACTERISTICS AND PROVISIONS FOR WIRING ARE COORDINATED AND CLEARED WITH ELECTRICAL SECTION BY LETTER THROUGH CONTRACTOR OR ARCHITECT.
- REVIEW OF PRODUCT SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS FOR SYSTEM CAPACITIES OR FOR FITTING THE EQUIPMENT IN THE ALLOTTED SPACE. REVIEW IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH REQUIREMENTS DESCRIBED IN GENERAL SUPPLEMENTARY AND SPECIAL CONDITIONS OF THE CONTRACT DOCUMENTS PRIOR TO RELEASING EQUIPMENT FOR FABRICATION OR SHIPMENT. SHOP DRAWINGS SHALL CONSIST OF PLANS, SECTIONS, ELEVATIONS AND DETAILS AS REQUIRED TO CLEARLY INDICATE SIZE AND LOCATION OF EQUIPMENT OR PRODUCTS BEING PROVIDED. DRAWINGS SHALL INDICATE REQUIRED CLEARANCES OF EQUIPMENT BEING INSTALLED BY OTHERS AND SHALL SHOW CLEARANCES WITH RELATIONS TO MECHANICAL EQUIPMENT.
- ALL EQUIPMENT SHALL BE PURCHASED FROM AUTHORIZED FACTORY REPRESENTATIVE WITH ESTABLISHED OFFICE IN LOCAL AREA, IF MANUFACTURER HAS SUCH AN OFFICE.
- SUBSTITUTIONS MUST BE REQUESTED IN CONFORMANCE WITH REQUIREMENTS STATED IN THE SUPPLEMENTARY GENERAL CONDITIONS.
- DO ALL EXCAVATION AND BACKFILLING REQUIRED FOR MECHANICAL WORK, UNLESS INDICATED OTHERWISE ON DRAWINGS.
- BACKFILL WITH CLEAN RIVER SAND UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THESE SPECIFICATIONS. KEEP ALL DEBRIS, ROOTS, PIECES OF WOOD AND PIPE, AND OTHER TRASH OUT OF BACKFILL. ADD BACKFILL IN LAYERS NOT EXCEEDING TWELVE INCHES IN DEPTH AND TAMPED TO ORIGINAL DENSITY. REMOVE ALL EXCESS MATERIAL FROM PREMISES.

- INSTALL ALL ITEMS OF MECHANICAL WORK SUCH AS PIPES, DUCTS, ETC., PENETRATING ROOFS A SUFFICIENT DISTANCE FROM WALLS, EAVES, ETC., TO PERMIT PROPER APPLICATION OF FLASHINGS AND COUNTERFLASHINGS.
- FLASH VENT PIPES THROUGH BUILT UP ROOFS AND PITCHED SHINGLE ROOFS WITH FOUR POUND LEAD, WELL TURNED DOWN INTO PIPING AND EXTENDING TWELVE INCHES BEYOND OUTSIDE OF PIPE. PROVIDE LEAD VENT CAP. FOR OTHER TYPES OF ROOFS, CONTRACTOR SHALL PROVIDE SUITABLE TYPES OF FLASHING AS REQUIRED BY THE ROOF MANUFACTURER.
- ROOF DRAINS SHALL BE FLASHED WITH FOUR POUND LEAD, EXTENDING TWELVE INCHES BEYOND OUTSIDE OF DRAIN. FLASHING FURNISHED BY MECHANICAL SECTION TO CONTRACTOR FOR INSTALLATION.
- FLASHINGS AND COUNTERFLASHINGS FOR OTHER THAN VENT PIPES AND DRAINS TO BE OF GAUGES AND CONSTRUCTION SPECIFIED IN ROOFING AND SHEET METAL SECTIONS OF SPECIFICATIONS. COORDINATE WITH ROOFER.
- FLASHING AND COUNTERFLASHINGS SHALL BE FURNISHED UNDER THIS SECTION AND INSTALLED BY THE GENERAL CONTRACTOR.
- THIS SECTION SHALL FURNISH ALL ACCESS PANELS TO CONTRACTOR FOR INSTALLATION, NECESSARY FOR PROPER ACCESS TO DAMPERS, VALVES, TRAPS, CLEANOUTS, FIXTURE CONNECTIONS, MOTORS, DRIVES OR OTHER ITEMS INSTALLED UNDER THIS CONTRACT, EXCEPT WHERE SUCH PANELS ARE SHOWN AND/OR SPECIFIED UNDER OTHER SECTIONS OF SPECIFICATIONS.
- HANG ALL PIPING 1-1/2" AND LARGER ON TEN FOOT MAXIMUM CENTERS, 3/4' TO 1' ON 16" MAXIMUM CENTERS, 1/2" AND BELOW ON 4'-0" MAXIMUM CENTERS.
- HANG ALL CAST IRON PIPING AT EVERY HUB FOR PIPE LENGTHS AND EVERY OTHER HUB FOR FITTINGS GROUPS. SUPPORT VERTICAL RUNS OF PIPING WITH FLAT STEEL BAR CLAMP HANGERS AT EACH FLOOR, OR AS DETAILED ON DRAWINGS.
- HANGERS IN BUILDING SOLID OR SPLIT TYPE SUPPORTED BY VERTICAL STEEL RODS FROM MASONRY INSERTS, EXPANSION SHIELDS OR BEAM CLAMPS. BRASS, COPPER OR LEAD INSERT HANGERS FOR INSULATED COPPER PIPING. PIPING HANGERS BELOW GRADE SHALL BE 1/2" INCH ROUND STAINLESS STEEL.
- PROVIDE GALVANIZED STEEL SADDLE BETWEEN COVERING AND PIPE HANGER ON INSULATED PIPES. PIPE UP TO FOUR INCH DIAMETER, 18 GAUGE X 12 INCHES LONG.
- SUPPORT ALL PIPING INDEPENDENTLY OF ALL EQUIPMENT AND ARRANGE HANGERS TO ISOLATE ANY VIBRATION TRANSMISSION FROM PIPING TO STRUCTURE.
- FURNISH AND INSTALL STEEL SUPPORTS AND FRAMEWORK FOR EACH ITEM OF EQUIPMENT OR FIXTURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR AS DETAILED ON DRAWINGS. ALL SUCH WORK SHALL MEET ALL APPLICABLE REQUIREMENTS SPECIFIED UNDER STRUCTURAL STEEL.
- ALL MECHANICAL WORK SUPPORTED ON WALLS OR PARTITIONS BY MEANS OF APPROPRIATELY SIZED GALVANIZED TOGGLE BOLTS.
- INSTALL ALL PIPING SO THAT IT MAY EXPAND AND CONTRACT FREELY WITHOUT DAMAGE TO EQUIPMENT, OTHER WORK OR INJURY TO PIPING SYSTEM. SUPPORT PIPING INDEPENDENTLY OF ALL EQUIPMENT.
- INSTALL UNIONS ADJACENT TO ALL SCREWED COCKS, CONTROL VALVES, DISCHARGE FROM RELIEF VALVES. FLANGED FITTINGS ARE CONSIDERED EQUIVALENT TO UNION CONNECTIONS.
- INSTALL PIPING PARALLEL AND/OR PERPENDICULAR TO BUILDING FLOOR, WALL OR CEILING PLANES, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- INSTALL ALL PIPING CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE, MAKING ALL NECESSARY OFFSETS, TURNS, ETC., NECESSARY TO CONCEAL PIPING FROM VIEW.
- NO PIPING OF DISSIMILAR METALS PLACED IN CONTACT WITH EACH OTHER. PROVIDE INSULATING UNIONS WHENEVER PIPING OF DISSIMILAR METALS IS JOINED. INSULATING COUPLINGS NOT ACCEPTABLE.
- ALL POWER WIRING AND ALL DISCONNECT SWITCHES FURNISHED AND INSTALLED UNDER DIVISION 16, ELECTRICAL.
- PRIOR TO THE FINAL RELEASE FOR MANUFACTURE OR SHIPMENT OF ANY EQUIPMENT, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO VERIFY THE AVAILABLE ELECTRICAL SERVICE FOR EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR AND TO PROVIDE EQUIPMENT THAT SUITS THE AVAILABLE SERVICE.
- ANY EQUIPMENT DELIVERED TO THE SITE WITH INCORRECT VOLTAGE OR PHASE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- AFTER FINAL TESTING, CLEAN ALL FIXTURES, PIPES AND EXPOSED WORK. THOROUGHLY CLEAN AND POLISH PLATED AND OTHER FINISHED PRODUCTS.
- PIPING TO BE FREE OF ALL OBSTRUCTIONS. REMOVE ALL DEBRIS, SURPLUS AND WASTE MATERIALS COMPLETELY FROM THE JOB SITE.
- PROPERLY OIL, GREASE AND LUBRICATE ALL MOTORS, PUMPS, ETC., BEFORE STARTING AND UNTIL FINAL ACCEPTANCE OF WORK.
- FURNISH TO ARCHITECT THREE COMPLETE SETS OF PARTS CATALOGS AND OPERATING INSTRUCTIONS BOUND IN LARGE 3-RING BINDERS FOR USE OF MAINTENANCE DEPARTMENT. INCLUDE INFORMATION FOR ALL EQUIPMENT, FIXTURES, ETC. SUBMITTED TO THE ARCHITECT.
- MANUFACTURER WARRANTIES FOR ALL MECHANICAL EQUIPMENT FURNISHED ON THE PROJECT SHALL RUN FOR A PERIOD OF ONE YEAR FROM DATE OF "SUBSTANTIAL COMPLETION". EXCEPT HVAC SYSTEM WHERE THE COMPRESSOR SHALL BE PROVIDED WITH MINIMUM FIVE YEARS WARRANTY OF MATERIAL AND LABOR. DURING WARRANTY, CORRECT ANY DEFECTS IN NEW EQUIPMENT, MATERIALS OR WORKMANSHIP, WITHOUT COST TO OWNER FOR EITHER PARTS OR LABOR.
- A COMPETENT AND EXPERIENCED SERVICE AND INSTALLATION MECHANIC SHALL BE EMPLOYED BY THE CONTRACTOR TO START AND ADJUST ALL EQUIPMENT. THE ARCHITECT RESERVES THE RIGHT TO REQUIRE THE TEST OF ANY ITEM OF EQUIPMENT OR MACHINERY. SUCH TESTS SHALL BE CONDUCTED BY THE CONTRACTOR IN THE PRESENCE OF THE ARCHITECT, ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
- OBTAIN THE SERVICES OF AN INDEPENDENT AIR BALANCE AND TESTING AGENCY WHICH SPECIALIZES IN THE TESTING AND BALANCING OF HVAC SYSTEMS: TO TEST, ADJUST, AND BALANCE ALL SUPPLY, RETURN, EXHAUST SYSTEMS AND KITCHEN AIR SYSTEMS. ALL WORK TO BE PERFORMED IN COMPLETE ACCORDANCE WITH THE ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS FOR FIELD MEASUREMENTS AND INSTRUMENTATION, LATEST ADDITION, THOSE SECTIONS APPLICABLE TO AIR / WATER DISTRIBUTION.
- AS CONSTRUCTION PROGRESSES, TEST PIPING AND EQUIPMENT TO PRESSURE HEREINAFTER SPECIFIED. WHERE PRESSURES ARE NOT MENTIONED, TEST TO ONE AND ONE HALF TIMES SERVICE CONDITIONS BEFORE CONCEALING OR INSULATING.
- FLUSH ALL SYSTEMS UNTIL CLEAR WATER FLOWS OR AS HEREINAFTER SPECIFIED.
- FURNISH ALL NECESSARY GAUGES, INSTRUMENTS, PUMPS, TEST PLUGS AND TEMPORARY CONNECTIONS. TEST ALL EQUIPMENT UNDER SERVICE CONDITIONS AND MAKE ALL NECESSARY ADJUSTMENTS TO CONTROLS, DAMPERS, VALVES, ETC., TO OBTAIN BEST OPERATION. MAKE INITIAL TESTS WITH BUILDING UNOCCUPIED AND FINAL TESTS UNDER ACTUAL HEATING AND COOLING CONDITIONS.
- GUARANTEE ALL MECHANICAL INSTALLATIONS AGAINST ALL DEFECTS IN EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF "SUBSTANTIAL COMPLETION". DURING GUARANTEE PERIOD, CORRECT ANY DEFECTS IN NEW EQUIPMENT, MATERIALS OR WORKMANSHIP, WITHOUT COST TO OWNER FOR EITHER PARTS OR LABOR.
- CONTRACTOR'S GUARANTEE INCLUDES PERFORMANCE CAPACITIES AND RATINGS AS SPECIFIED.
- CONTRACTOR SHALL BE FURNISHED A COMPLETE SET OF BLUE LINE PRINTS WHICH SHALL BE MARKED UP BY CONTRACTOR AS WORK PROGRESSES TO REFLECT ALL ITEMS OF INSTALLATION WHICH DIFFER SIGNIFICANTLY FROM WORK SHOWN ON CONTRACT DRAWINGS. AS-BUILT DRAWINGS SHALL BE NEATLY DONE, NOT SKETCHY OR FREE HAND. FINAL PAYMENT WILL BE WITHHELD UNTIL DRAWINGS ARE FURNISHED.
- DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS SHOWN AND/OR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED THE SAME AS IF SHOWN AND/OR CALLED FOR IN THE OTHER.
- FOR ANY POINTS WHICH ARE NOT CLEAR, OR FOR ITEMS AND/OR DETAILS WHICH CONTRACTOR FEELS ARE IN NEED OF CLARIFICATION, CONSULT ARCHITECT/ENGINEER BEFORE SUBMISSION OF PROPOSAL.
- IF NO CLARIFICATIONS ARE REQUESTED PRIOR TO THE BID, THE CONTRACTOR, BY SUBMISSION OF HIS BID, INDICATES HE HAS A CLEAR AND FULL UNDERSTANDING OF THE INTENT OF THE PLANS AND SPECIFICATIONS.

PLUMBING NOTES:

- THE BUILDING DOMESTIC WATER SYSTEM SHALL BE ISOLATED FROM CITY WATER SUPPLY BY A REDUCED PRESSURE BACKFLOW PREVENTION DEVICE LOCATED AT THE INCOMING SERVICES. ALL MECHANICAL PIPING SYSTEMS SHALL BE ISOLATED FROM THE BUILDING POTABLE WATER SUPPLY BY AN AIR GAP OR A REDUCED PRESSURE BACKFLOW PREVENTION DEVICE. PROVIDE IN ACCORDANCE WITH REGULATIONS OF LOCAL AUTHORITY HAVING JURISDICTION.
- FURNISH AND INSTALL NEW WATER METER FOR BUILDING WHERE INDICATED ON THE PLANS. LOCATION OF METER SHALL BE AS DIRECTED BY BUILDING REPRESENTATIVE AND LOCAL CODE AUTHORITIES.
- CONTRACTOR TO VERIFY WATER PRESSURE AT ENTRY TO BUILDING. IF PRESSURE IS FOUND TO BE LESS THAN 60 PSI UPSTREAM OF WATER METER, A BOOSTER PUMP IS REQUIRED AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. IF PRESSURES EXCEED 80 PSI, THE CONTRACTOR SHALL INSTALL A PRESSURE REDUCER TO MAINTAIN PRESSURE AT OR BELOW 80 PSI.
- VALVES SHALL BE FURNISHED AND INSTALLED IN ALL BRANCHES SERVING MORE THAN ONE PIECE OF EQUIPMENT OR EACH GROUP OF PLUMBING FIXTURES, OR BOTH SIDES OF EQUIPMENT, SUCH AS PUMPS, TANKS, ETC. FOR SHUT OFF OF BRANCH MAINS, ELIMINATING THE NECESSITY OF INTERRUPTING SERVICE TO THE ENTIRE BUILDING FOR MAINTENANCE PURPOSES AND WHERE INDICATED ON THE DRAWINGS. WHERE VALVES ARE INSTALLED WITHIN CHASES OR ABOVE INACCESSIBLE CEILINGS, PROVIDE APPROPRIATELY SIZED ACCESS PANEL FOR EACH VALVE.
- ALL SHUTOFF VALVES 2 1/2" AND SMALLER SHALL BE RATED 150 PSI SUP AND 600 PSI NON-SHOCK WOG AND WILL HAVE 2-PIECE, CAST BRONZE BODIES, THE SEATS, FULL PORT, SEPARATE PACKNUT WITH ADJUSTABLE STEM PACKING, ANTI-BLOUOUT STEMS AND CHROME-PLATED BRASS/BRONZE BALL. VALVE ENDS SHALL HAVE EXTENDED SOLDER CONNECTIONS AND BE MANUFACTURED TO COMPLY WITH 1968 9F-110, NIBCO 5-585-10, OR APPROVED EQUAL.
- SANITARY PIPING BELOW GROUND SHALL BE STANDARD CAST IRON SOIL PIPE AND FITTINGS OF BELL AND SPIGOT PATTERN, WITH ASTM A818 6064 COMPRESSION TYPE GASKETS, SUCH AS TYLER TYSEAL.
- SANITARY PIPING ABOVE GROUND THAT IS EXPOSED OR IN VERTICAL RISERS SHALL BE STANDARD WEIGHT CAST IRON PIPE AND FITTINGS. JOINTS SHALL BE APPROVED TYPE ELASTOMER GLEEVE WITH STAINLESS STEEL CLAMP AND SCREW, AND SHALL BEAR THE STAMP OF THE CAST IRON PIPE INSTITUTE.
- SANITARY PIPING ABOVE GROUND THAT IS CONCEALED AND HORIZONTAL RUNS CAN BE SCH 40 SOLID CORE PVC WITH SOLVENT WELD DRAINAGE WASTE FITTINGS ONLY AS APPROVED BY THE ARCHITECT/OWNER.
- CLEANOUTS SHALL BE PROVIDED AT THE FOOT OF EACH VERTICAL WASTER OR SOIL STACK. CLEANOUTS SHALL BE OF NOMINAL SIZES FOR PIPES UP TO 4" AND NOT LESS THAN 4" FOR LARGER PIPES. CLEANOUTS IN HORIZONTAL LINES SHALL NOT EXCEED THOSE PRESCRIBED BY THE LOCAL PLUMBING AUTHORITY. ALL CLEANOUTS SHALL BE EASILY ACCESSIBLE.
- WATER PIPING UNDER BUILDING SHALL BE TYPE K' COPPER, ALL TUBING TO BE PROPERLY REAMED AND SIZED BEFORE INSTALLING FITTINGS.
- WATER PIPING ABOVE GROUND SHALL BE TYPE L' COPPER TUBING WITH WROUGHT SOLDER-JOINT FITTINGS, AN81 B16-22, OR EQUAL, USING 95-5 TIN-ANTIMONY SOLDER. ALL CONNECTIONS BETWEEN STEEL AND COPPER SHALL BE MADE WITH DIELECTRIC UNIONS.
- PEX WATER PIPING SHALL BE ALLOWED WITH APPROVAL BY OWNER.
- POLYPROPYLENE PIPING FOR DOMESTIC WATER SHALL BE ALLOWED WITH APPROVAL BY OWNER. PIPE SHALL BE MANUFACTURED FROM PP-R / PP-RCT RESIN AND SHALL MEET ASTM F-2309, CSA B13711 AND AN81 14 REQUIREMENTS. HOT WATER PIPING SHALL CONTAIN A FIBER LAYER FUSION-WELD ALL JOINTS AND FITTINGS. PIPING SHALL BE INSTALLED AND TESTED PER MANUFACTURER'S RECOMMENDATIONS. APPROVED MANUFACTURERS ARE NIRON AND AQUATHERM.
- NIPPLE CONNECTIONS AT FIXTURES SHALL BE BRASS OR COPPER PIPE. NO STEEL NIPPLES PERMITTED.
- DOMESTIC COLD WATER LINES ABOVE GRADE SHALL BE INSULATED WITH 1/2" THICK FIBERGLAS LOW PRESSURE PIPE INSULATION. DOMESTIC HOT WATER AND HOT WATER RETURN LINES ABOVE GRADE SHALL BE INSULATED WITH 1" THICK FIBERGLAS LOW PRESSURE PIPE INSULATION.
- ALL F-TRAP AND ANGLE STOP ASSEMBLIES ON ADA LAVATORIES AND SINKS SHALL BE INSULATED WITH ONE PIECE, ABRASION RESISTANT, MOLDED, REMOVABLE INSULATION KIT EQUAL TO MODEL PRO-EXTREME AS MANUFACTURED BY PLUMBEREX SPECIALTY PRODUCTS, INC. PROVIDE MODEL HANDI-SHIELD 60FT SAFETY COVER ON 2" AND LARGER TRAP ASSEMBLIES. PROVIDE ACCESSORY KIT WHERE OFFSET PTRAP IS INSTALLED. HOT AND COLD WATER STOPS AND SUPPLIES SHALL BE COVERED. EXTERIOR COVER SHALL BE 8" OODTH AND HAVE 1/8" WALL MINIMUM OVER CUSHIONED FOAM INSERT. COLOR SHALL BE WHITE. FASTENERS SHALL REMAIN SUBSTANTIALLY OUT OF SIGHT. LAV GUARD 2" PROTECTIVE KIT, AS MANUFACTURED BY TRUEBRO, INC., SHALL BE CONSIDERED EQUAL.
- INSULATE ALL SANITARY SEWER PIPING THAT RECEIVE CONDENSATE DRAINS FROM A/C UNITS WITH 1-1/2" THICK FLEXIBLE FIBERGLASS WITH VAPOUR SEAL. THIS SHALL INCLUDE ALL F-TRAPS, HORIZONTAL PIPING AND VERTICAL PIPING ABOVE CEILINGS AND WITHIN WALLS AND CHASES DOWN TO THE FIRST FLOOR SLAB OR TO THE EXTERIOR WALL OF THE BUILDING.
- UNIONS SHALL BE USED ON ALL ITEMS OF EQUIPMENT. ALL UNIONS MUST BE ACCESSIBLE. USE WROUGHT COPPER SOLDER TYPE GROUND JOINT UNIONS UP TO 2" IN SIZE. IN STEEL PIPE, USE BRASS TO IRON SEAT MALLEABLE IRON GROUND JOINT, 150 POUNDS UNIONS OR UNION FITTING GALVANIZED UP TO AND INCLUDING 3" SIZES.
- ALL VENT PIPES GOING THROUGH THE ROOF SHALL BE FLASHED AS REQUIRED FOR TYPE OF ROOF CONSTRUCTION WITH LEAD SLEEVES. PLUMBER IS REQUIRED TO COORDINATE ALL SLEEVES AND FLASHINGS WITH ROOFER AND FURNISH ROOFER WITH ALL SLEEVES. ROOFER INSTALLS ALL SLEEVES.
- INSTALL ONE AIR CHAMBER ON EACH HOT WATER AND EACH COLD WATER PIPE TO EACH PLUMBING FIXTURE OR BEHIND EACH GROUP OF PLUMBING FIXTURES. AIR CHAMBERS SHALL BE CONSTRUCTED FROM COPPER PIPE. IF ONE AIR CHAMBER IS INSTALLED ON EACH COLD WATER PIPE BEHIND A GROUP OF FIXTURES, IT SHALL BE 3" IN DIAMETER, 24" LONG CAPPED. IF ONE AIR CHAMBER IS INSTALLED ON EACH COLD WATER PIPE TO EACH PLUMBING FIXTURE, IT SHALL BE THE FULL SIZE OF THE SUPPLY AND 12" TALL PROPERLY CAPPED.
- PROVIDE ONE AUTOMATIC TRAP PRIMER FOR EACH FLOOR DRAIN AS INDICATED ON THE PLANS. PRIMER SHALL BE DUAL FLOW TYPE AND SHALL BE AUTOMATICALLY ACTIVATED WHENEVER SENSING A PRESSURE DROP OR A PRESSURE SPIKE. TRAP PRIMER SHALL BE EQUAL TO PRECISION PLUMBING PRODUCTS MODEL NUMBER CPO-500. PROVIDE STAINLESS STEEL ACCESS PANEL FOR ACCESS TO THE TRAP PRIMER.
- EACH PLUMBING FIXTURE SHALL BE FITTED WITH ALL NECESSARY AND PROPER FITTINGS, TRIMMINGS AND OPERATING DEVICES, AND SHALL BE LEFT IN PERFECT OPERATING CONDITION. FINISH OF ALL EXPOSED METAL WORK IN CONNECTION WITH FIXTURES, TRIMMINGS AND OPERATING DEVICES, WHERE NOT SPECIFICALLY MENTIONED, SHALL BE CHROMIUM PLATE FINISH. PROVIDE PROPER BACKING OR CARRIERS FOR FIXTURES AS REQUIRED FOR SECURE INSTALLATION.
- ALL TRAPS AND WALL ESCUTCHEONS SHALL BE CHROMIUM PLATED. FIXTURES TO BE AMERICAN STANDARD, KOHLER, CRANE OR APPROVED EQUAL. AMERICAN STANDARD NUMBERS ARE USED AS A STANDARD, UNLESS NOTED OTHERWISE, BUT FIXTURES OF APPROVED EQUAL TYPE AND QUANTITY WILL BE ACCEPTED. FLUSH VALVES SHALL BE SLOAN, DELANTY OR APPROVED EQUAL. STAINLESS STEEL FIXTURES SHALL BE ELKAY, JUST OR APPROVED EQUAL.
- PLUMBING FIXTURES SHALL BE SELECTED BY THE ARCHITECT.
- EACH PLUMBING FIXTURE SHALL BE FITTED WITH ALL NECESSARY AND PROPER FITTINGS, STOPS, TRIM AND OPERATING DEVICES.
- ALL PIPING SHALL BE HUNG FROM THE BUILDING STRUCTURE USING PROPERLY SIZED BEAM CLAMPS, INSERTS, ETC. NO PIPING SHALL BE HUNG FROM OTHER PIPING, DUCTWORK, EQUIPMENT, ETC.
- PIPING IS TO BE CONCEALED EXCEPT WHERE NOTED. PIPING IS TO BE INSTALLED PARALLEL TO OR AT RIGHT ANGLES WITH BUILDING WALLS, EXCEPT WHERE OTHERWISE SHOWN ON DRAWINGS.
- INSTALL UNDERGROUND PIPING PLUMB AND TRUE TO GRADE. WHEREVER CHANGES IN SIZES OF PIPING OCCUR, CHANGES MADE WITH REDUCING FITTINGS. USE OF BUSHINGS NOT PERMITTED.
- CUTTING AND BORING THROUGH STRUCTURAL MEMBERS DONE ONLY WHEN APPROVED BY ARCHITECT AND/OR STRUCTURAL ENGINEER.
- THE WATER SYSTEM SHALL BE INSTALLED WITH THE FALL TOWARD THE SHUTOFF VALVE FOR THE LOWEST FIXTURE. AIR CHAMBERS SHALL BE CONCEALED IN CHASES OR PARTITIONS.
- ALL HORIZONTAL SOIL AND WASTE PIPES SHALL BE GRADED 1/4" PER FOOT, WHERE POSSIBLE, BUT IN NO CASE LESS THAN 1/8" PER FOOT.
- BEFORE THE INSTALLATION OF ANY FIXTURES, SANITARY PIPING SHALL BE TEMPORARILY CAPPED, AND ALL LINES FILLED TO THE HIGHEST POINT AND ALLOWED TO STAND WITHOUT DROPPING FOR 30 MINUTES. LINES SHALL BE TESTED IN SECTIONS NOT LESS THAN 10 OR MORE THAN 40 FEET IN HEIGHT. IN ADDITION, A SMOKE OR PEPPERMINT TEST MAY BE REQUIRED BY THE ARCHITECT.

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PLUMBING
SPECIFICATIONS

P100

FIXTURE SCHEDULE					
FIXTURE	SYMBOL	WASTE	VENT	COLD WATER	HOT WATER
HAND SINK ●	HS	2'	2'	1/2'	1/2'
MOP BASIN ●	MB	3'	3'	1/2'	1/2'
RINSE / PREP SINK ●	RINSE	3'	3'	1/2'	1/2'
FLOOR DRAIN	FD	3'	2'		
3-COMPARTMENT SINK ●	3-COMP	3'	3'	1/2'	1/2'
ICEMAKER ●	ICE	2'	2'	1/2'	

● INDICATES ITEMS OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, BUT ROUGHED-IN FOR & CONNECTED BY THIS CONTRACTOR.

DRAIN SCHEDULE			
DESIGNATION	SMITH MODEL NO.	DESCRIPTION	REMARKS
FD-1	2010-A-P050	C.I. BODY WITH 6" ROUND NICKEL BRONZE STRAINER AND PRIMER TAP	
FD-2	2010-F31	C.I. BODY WITH ROUND EXTENDED RIM NICKEL BRONZE STRAINER	INSTALL WITH RIM FLUSH WITH FLOOR
FD-3	3101C	C.I. FLOOR SINK WITH 8" SQUARE NICKEL BRONZE STRAINER AND SEDIMENT BUCKET	
FD-4	3101C-12	C.I. FLOOR SINK WITH 8" SQUARE NICKEL BRONZE 1/2" GRATE AND SEDIMENT BUCKET	

SPECIFIC NOTES:

- NEW PLUMBING FIXTURE TO BE INSTALLED ON EXISTING ROUGH-IN. PREPARE EXISTING WASTE, VENT AND WATER PIPING TO ACCEPT NEW FIXTURE. PROVIDE NEW FITTINGS AND TRIM AS REQUIRED.
- EXISTING REGISTER/GRILLE TO REMAIN. CLEAN & RESTORE TO PROPER OPERATING CONDITION. COORDINATE WITH ARCHITECT IF TO BE PAINTED TO MATCH WALL.
- INSTALL NEW DIFFUSER. CONNECT TO EXISTING FLEX DUCT. BALANCE TO AIR QUANTITY SHOWN.
- INSTALL NEW DIFFUSER AND FLEX DUCT. PROVIDE 90° IN FITTING AT TRUNK DUCT CONNECTION. MODIFY EXISTING DUCT AS REQUIRED. FIELD VERIFY ROUTING OF TRUNK DUCT PRIOR TO FABRICATION & INSTALLATION.
- EXISTING CONDENSING UNIT TO BE RELOCATED FROM REAR YARD TO ROOF. MODIFY EXISTING REFRIGERANT PIPING & INSULATION AS REQUIRED. SEE DETAIL FOR ROOF INSTALLATION.
- 75 GPM GREASE TRAP, SCHIERER MODEL GB-75 OR EQUAL. INSTALL GREASE TRAP PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ANCHOR KIT IF REQUIRED. SEE DETAIL FOR MORE INFORMATION.
- EXTEND NEW WASTE PIPING AS INDICATED AND CONNECT TO NEAREST ADEQUATELY SIZED EXISTING WATER PIPING BELOW FLOOR IN THIS APPROXIMATE LOCATION. CONTRACTOR SHALL FIELD VERIFY INVERT ELEVATION PRIOR TO FABRICATION & INSTALLATION OF PIPING.
- EXTEND HOT & COLD WATER PIPING AND CONNECT TO EXISTING WATER CONNECTIONS AT EACH FIXTURE ABOVE THE CEILING. MODIFY EXISTING PIPING AS REQUIRED.

BELL BUTLER
DESIGN + ARCHITECTURE
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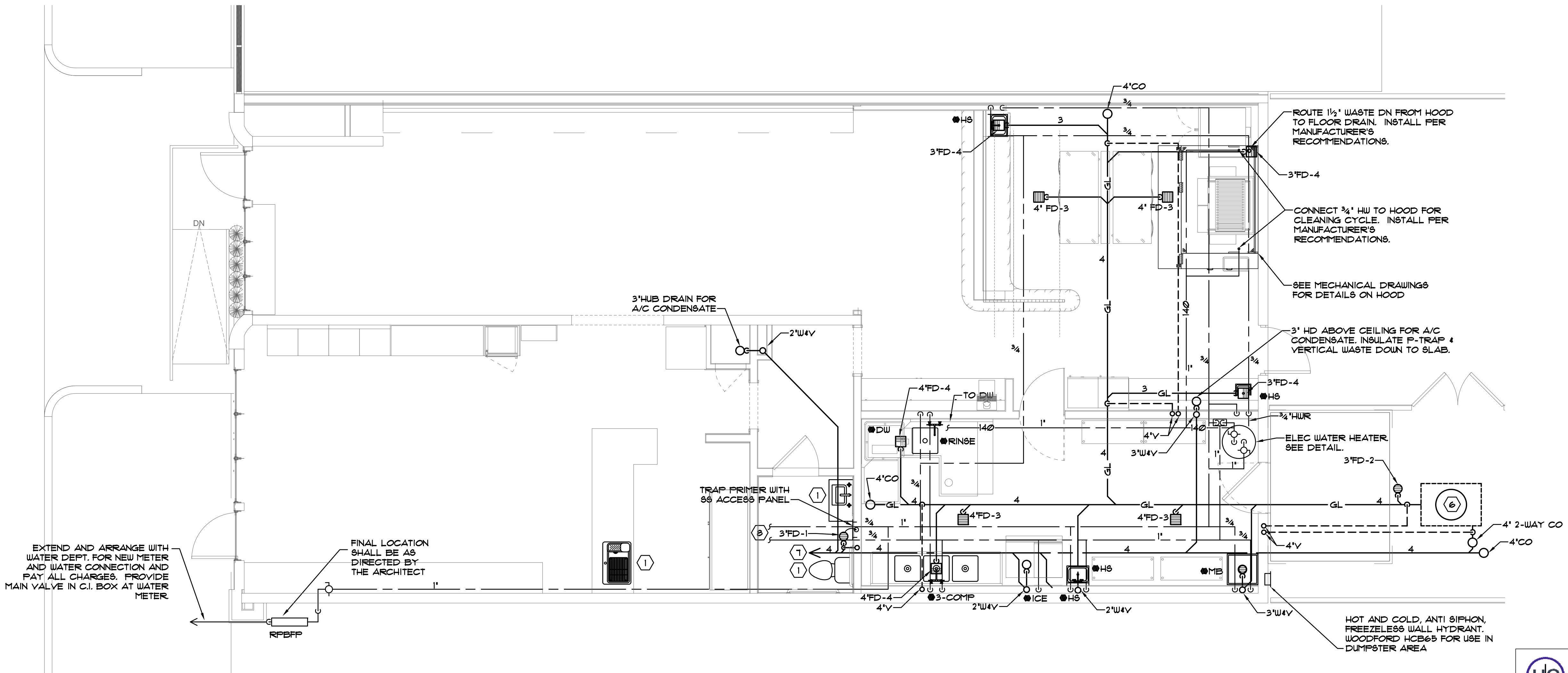
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FIRST FLOOR
PLUMBING

P101

HG HG Engineering
P.O. Box 56801, New Orleans, LA 70156-6801
Phone 504.233.3736
HGE Project No. 22025



1 FLOOR PLAN - PLUMBING
1/4" = 1'-0"

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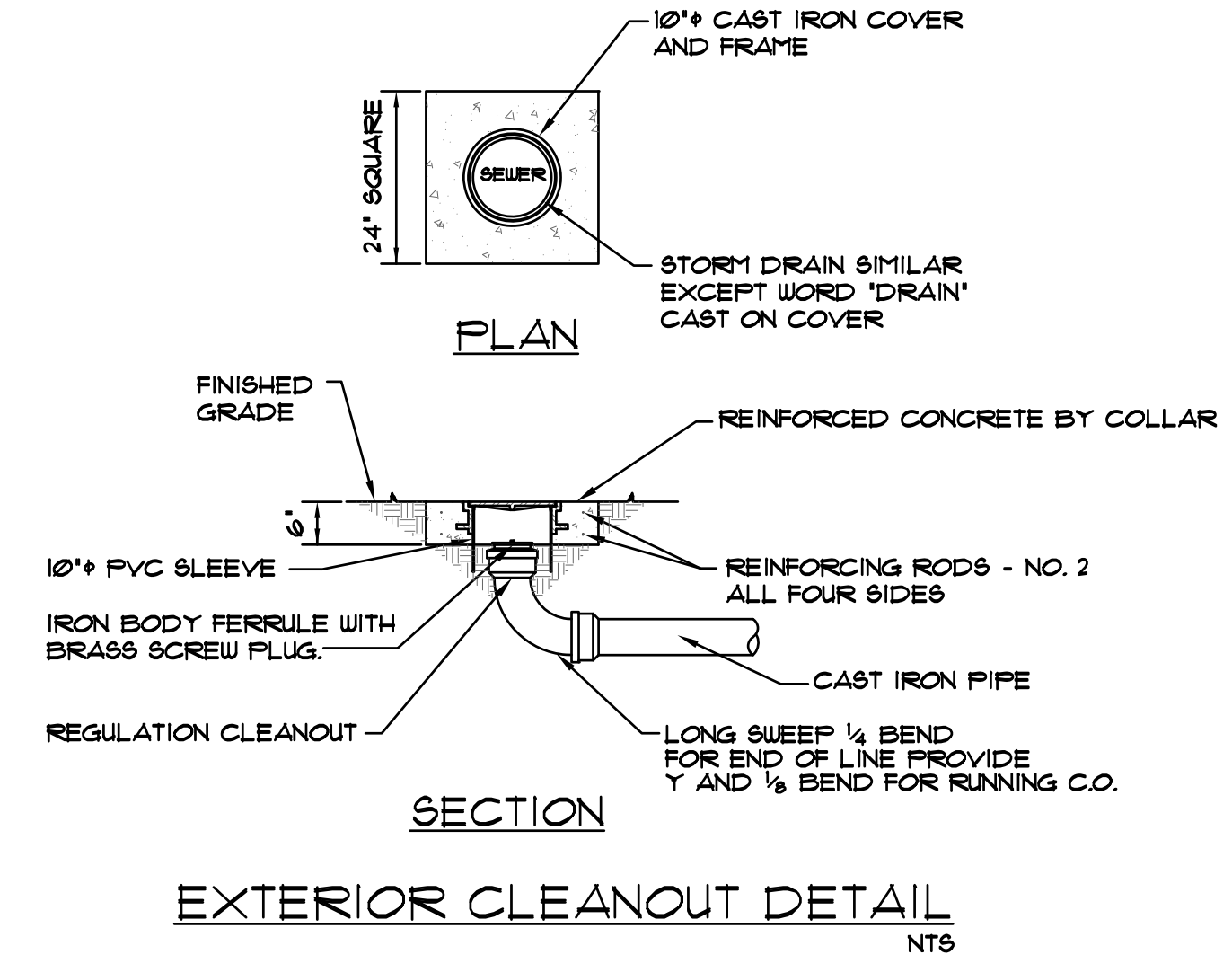
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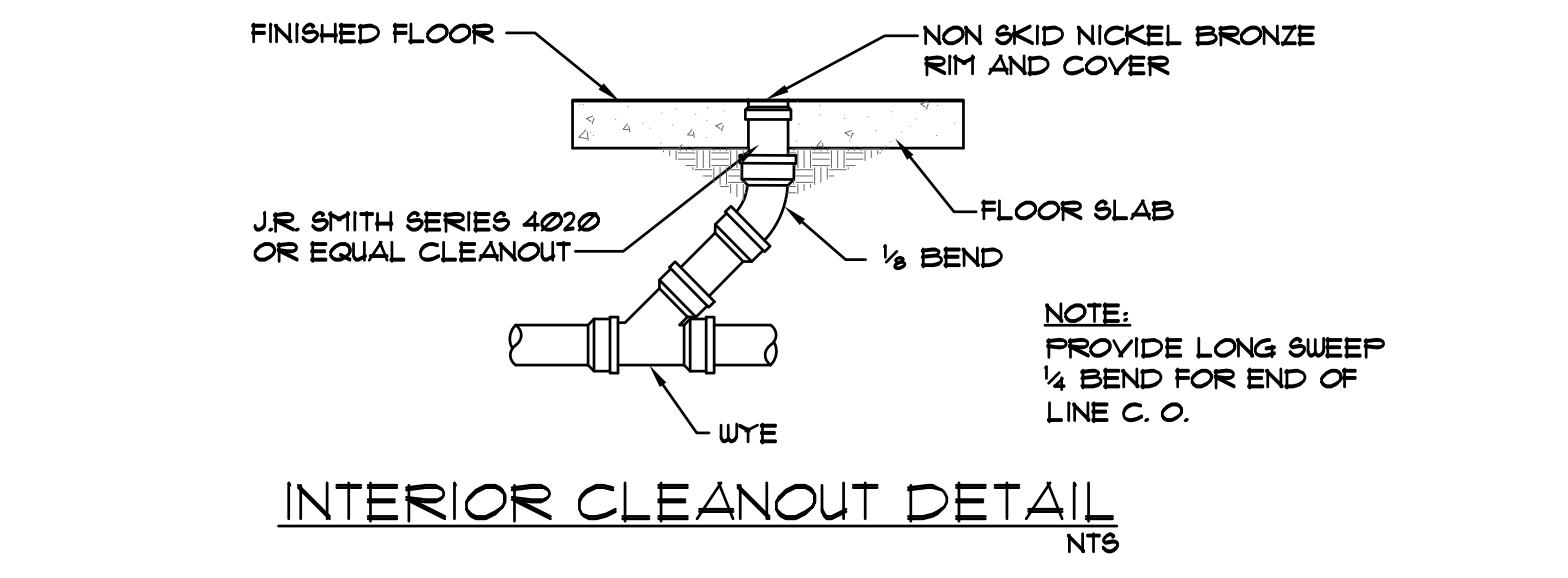
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PLUMBING
DETAILS

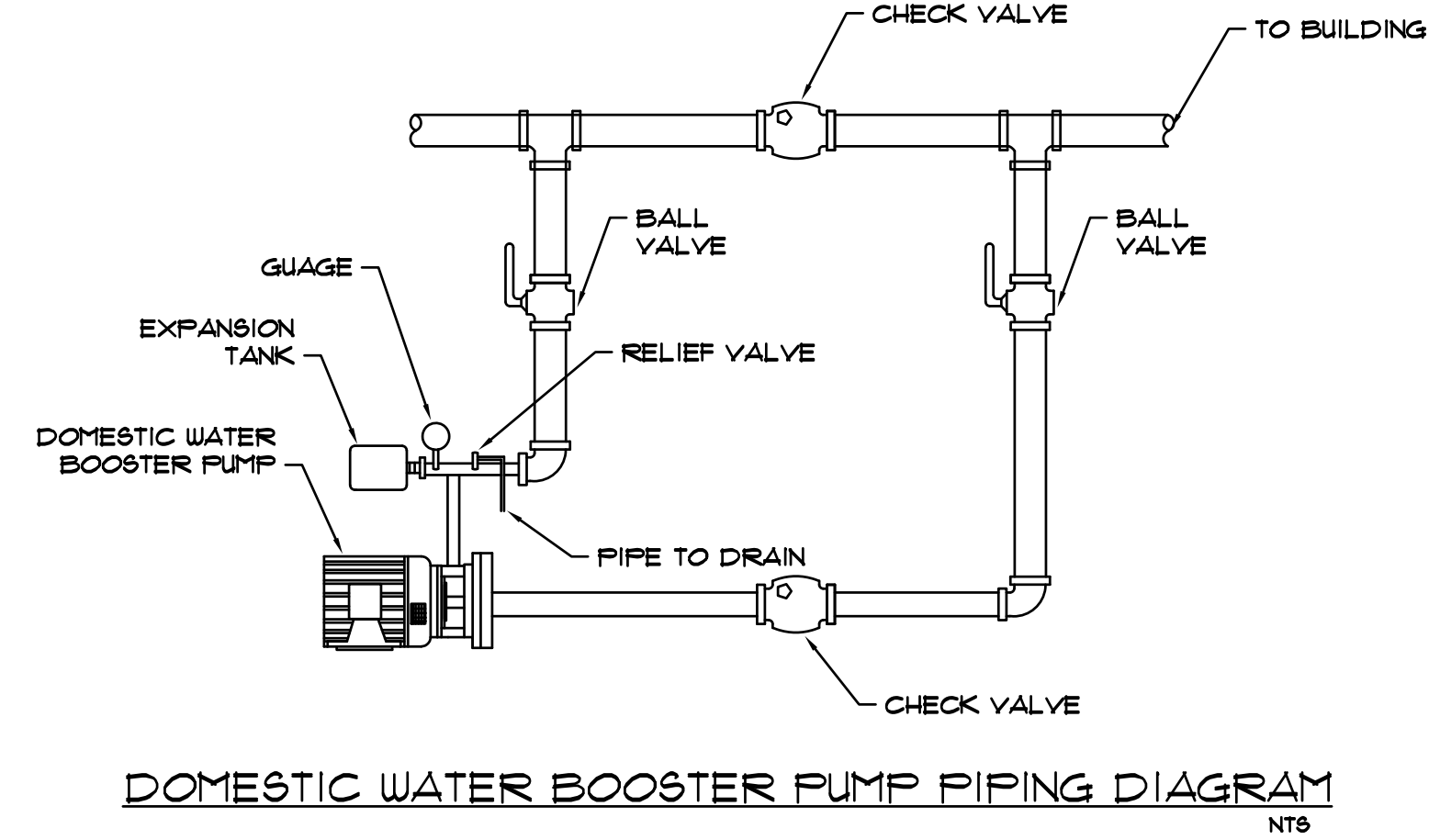
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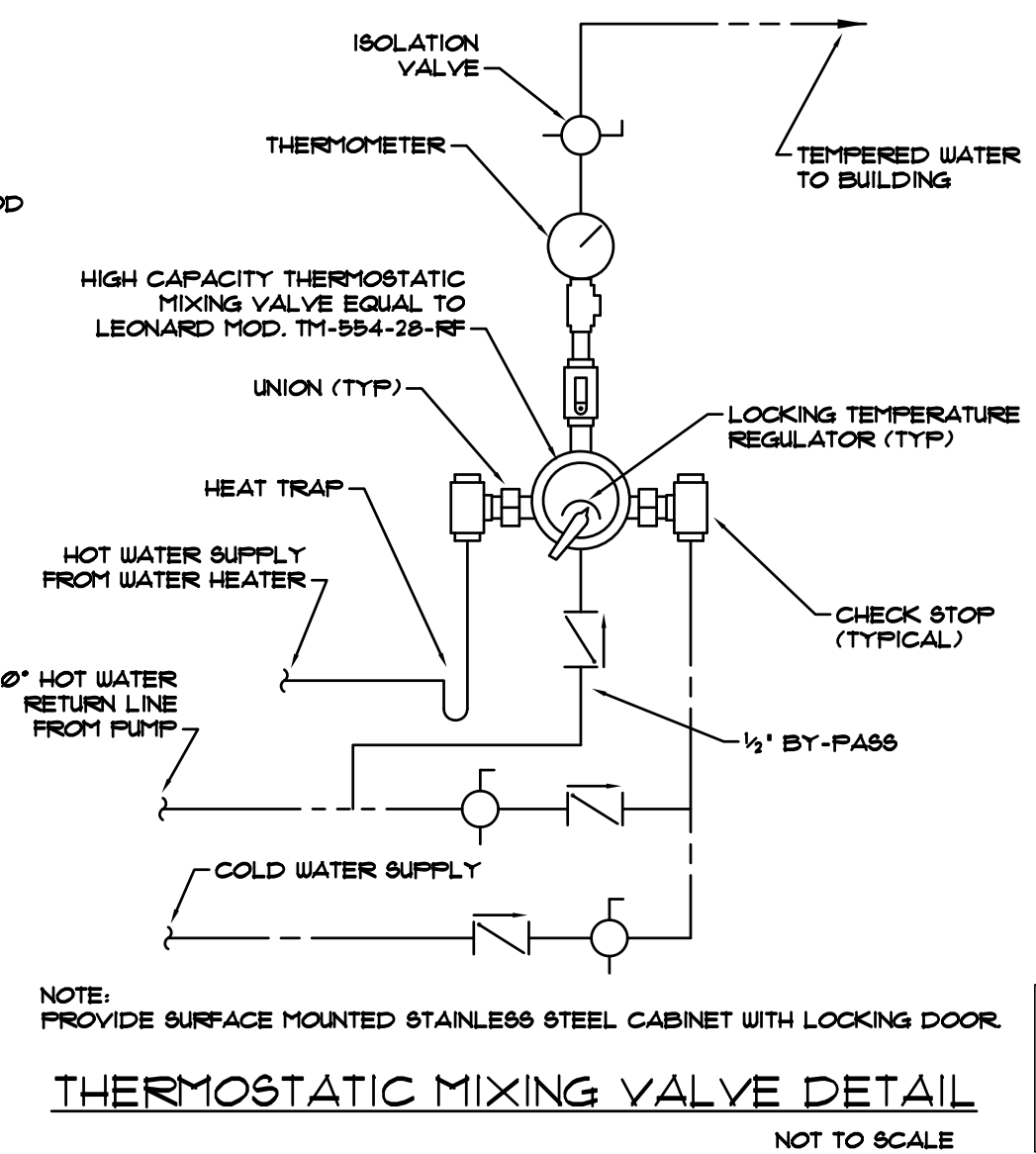
EXTERIOR CLEANOUT DETAIL
NT8



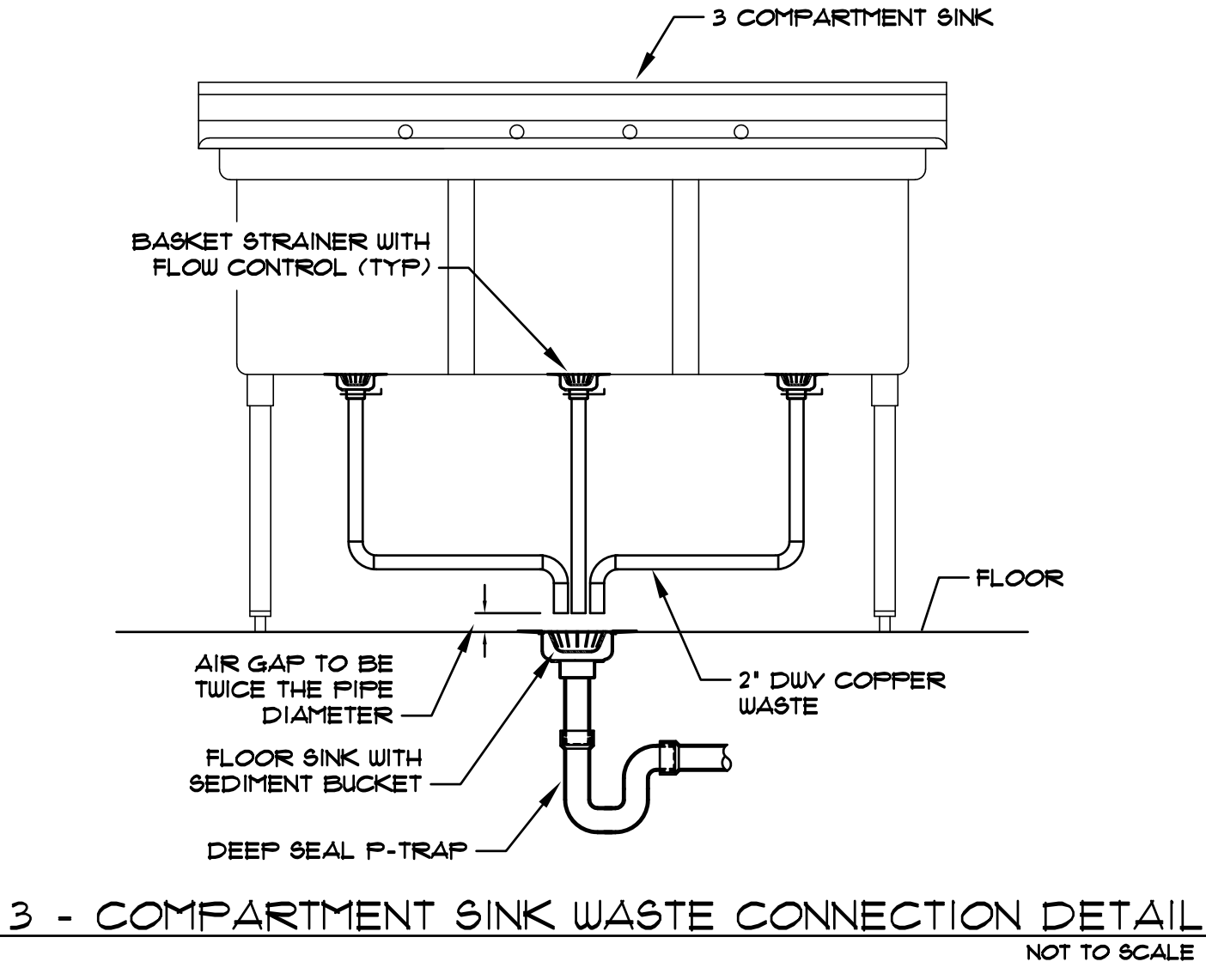
INTERIOR CLEANOUT DETAIL
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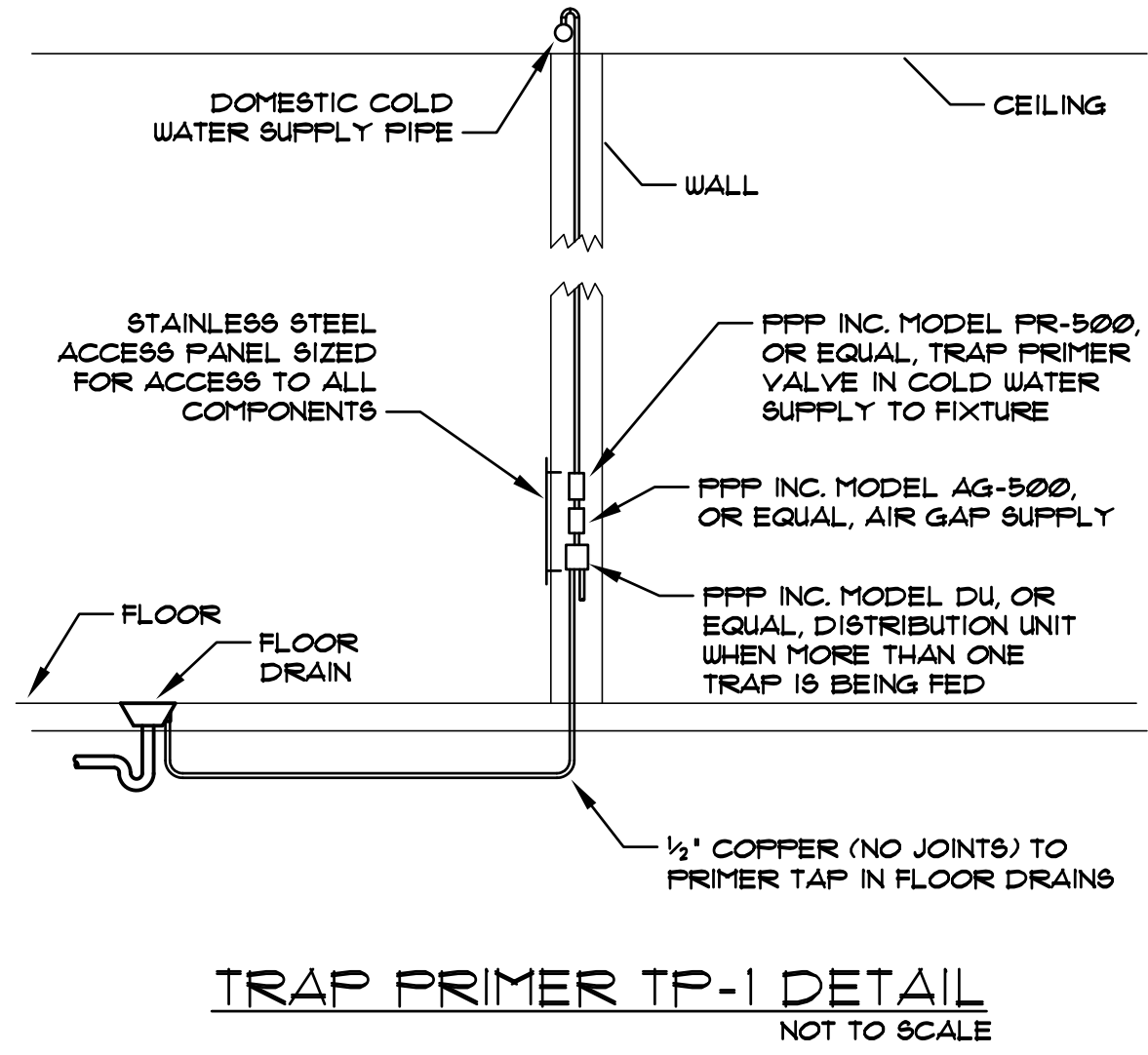
DOMESTIC WATER BOOSTER PUMP PIPING DIAGRAM
NT8



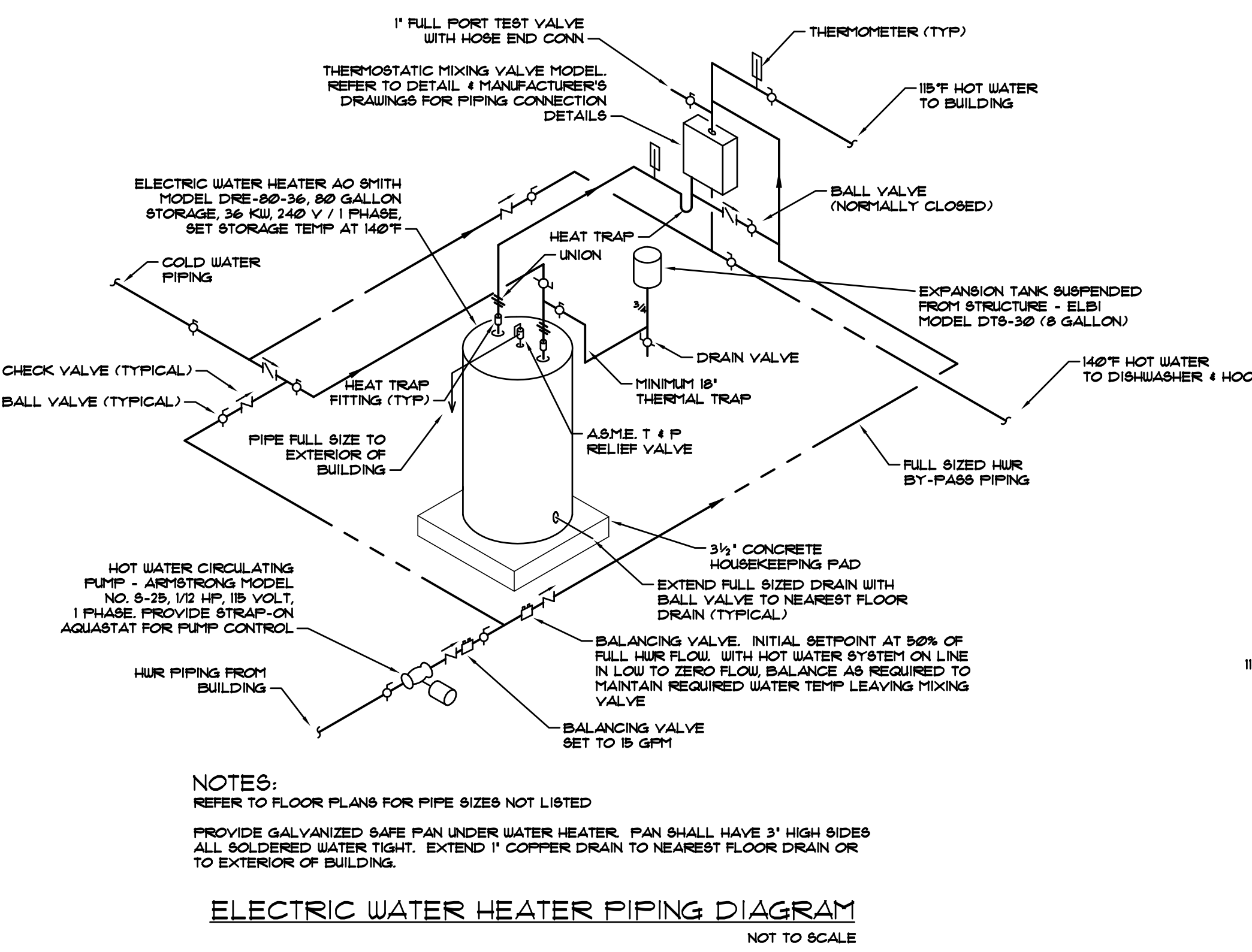
THERMOSTATIC MIXING VALVE DETAIL
NOT TO SCALE



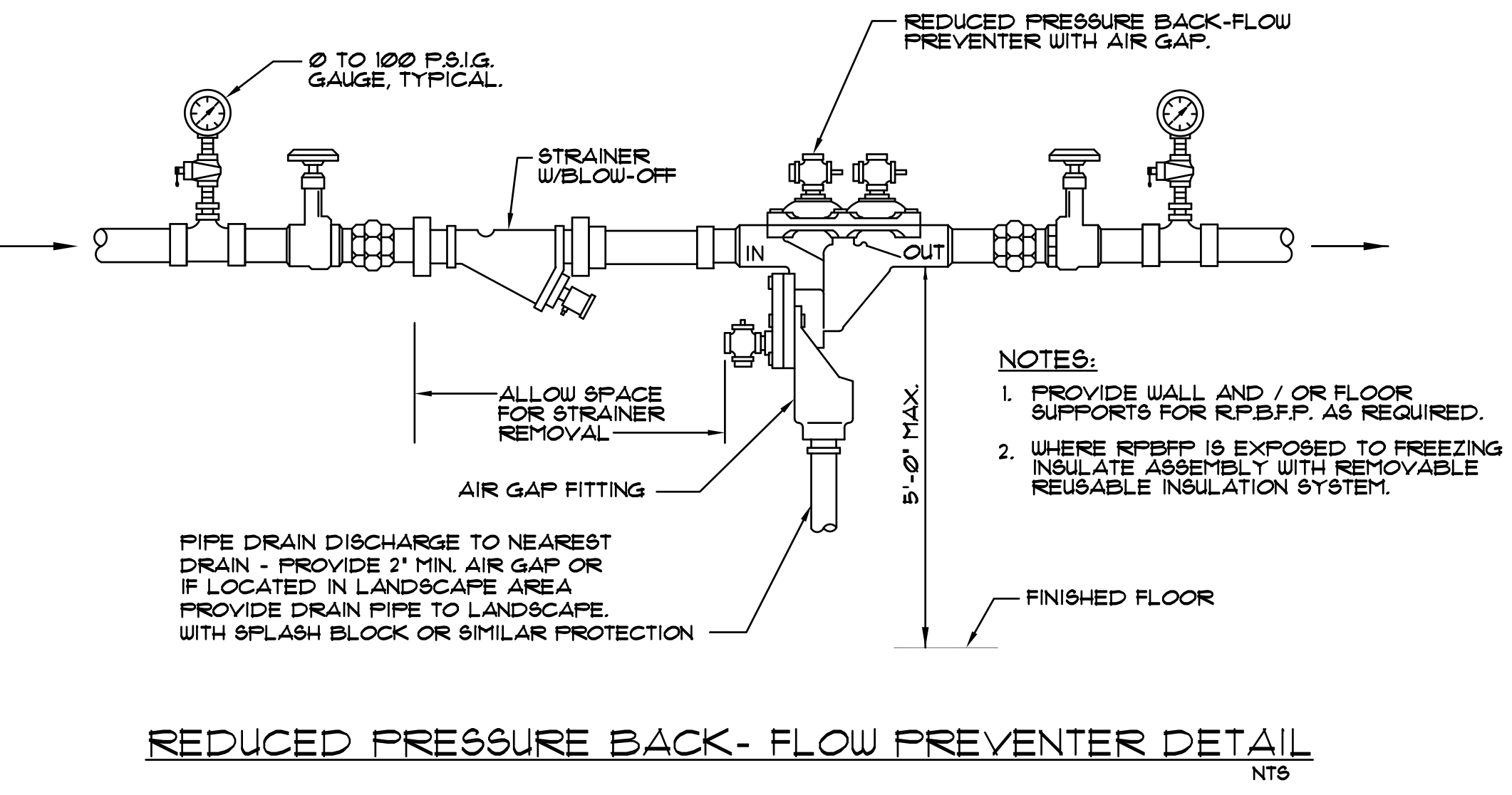
3 - COMPARTMENT SINK WASTE CONNECTION DETAIL
NOT TO SCALE



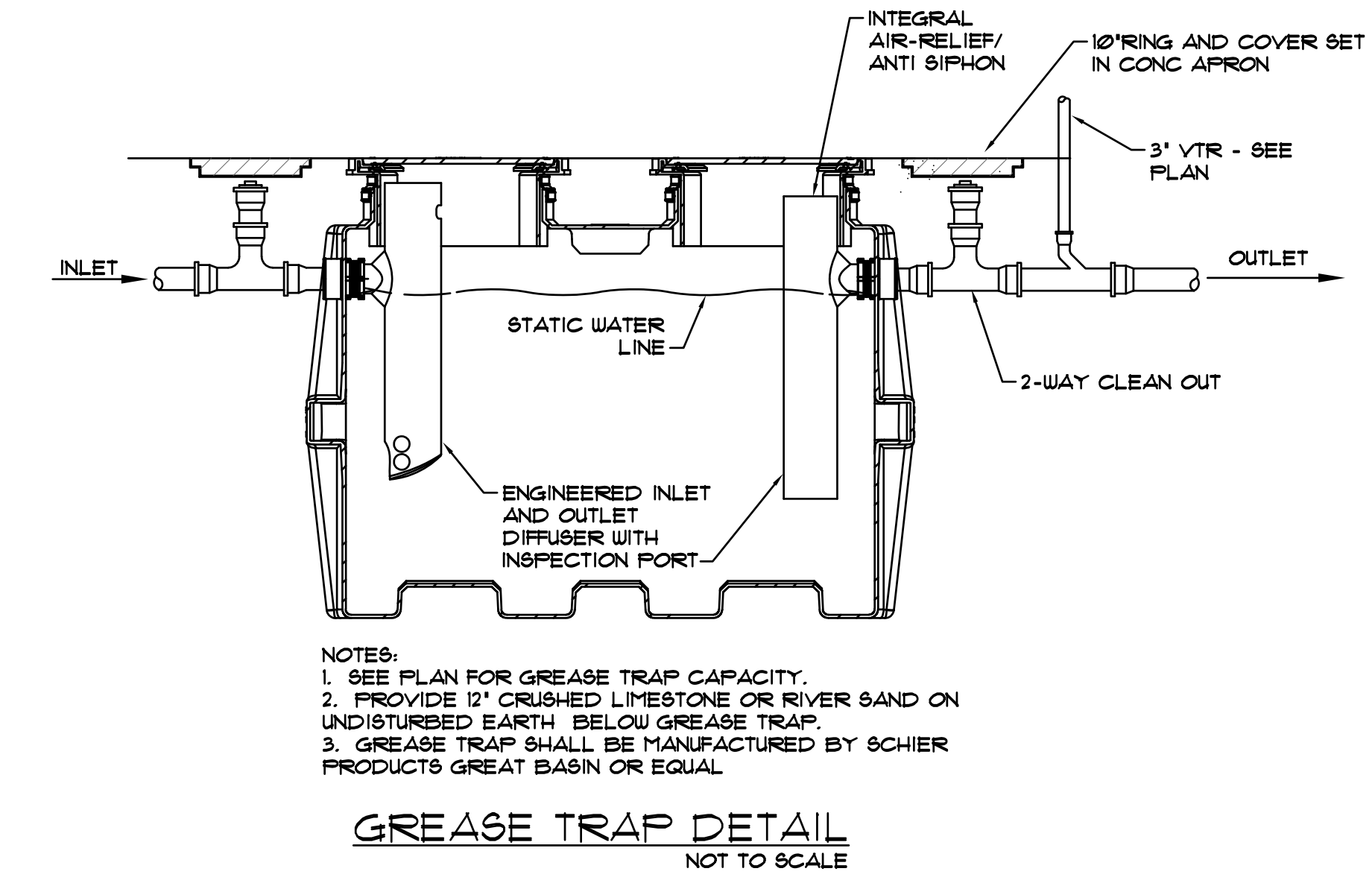
TRAP PRIMER TP-1 DETAIL
NOT TO SCALE



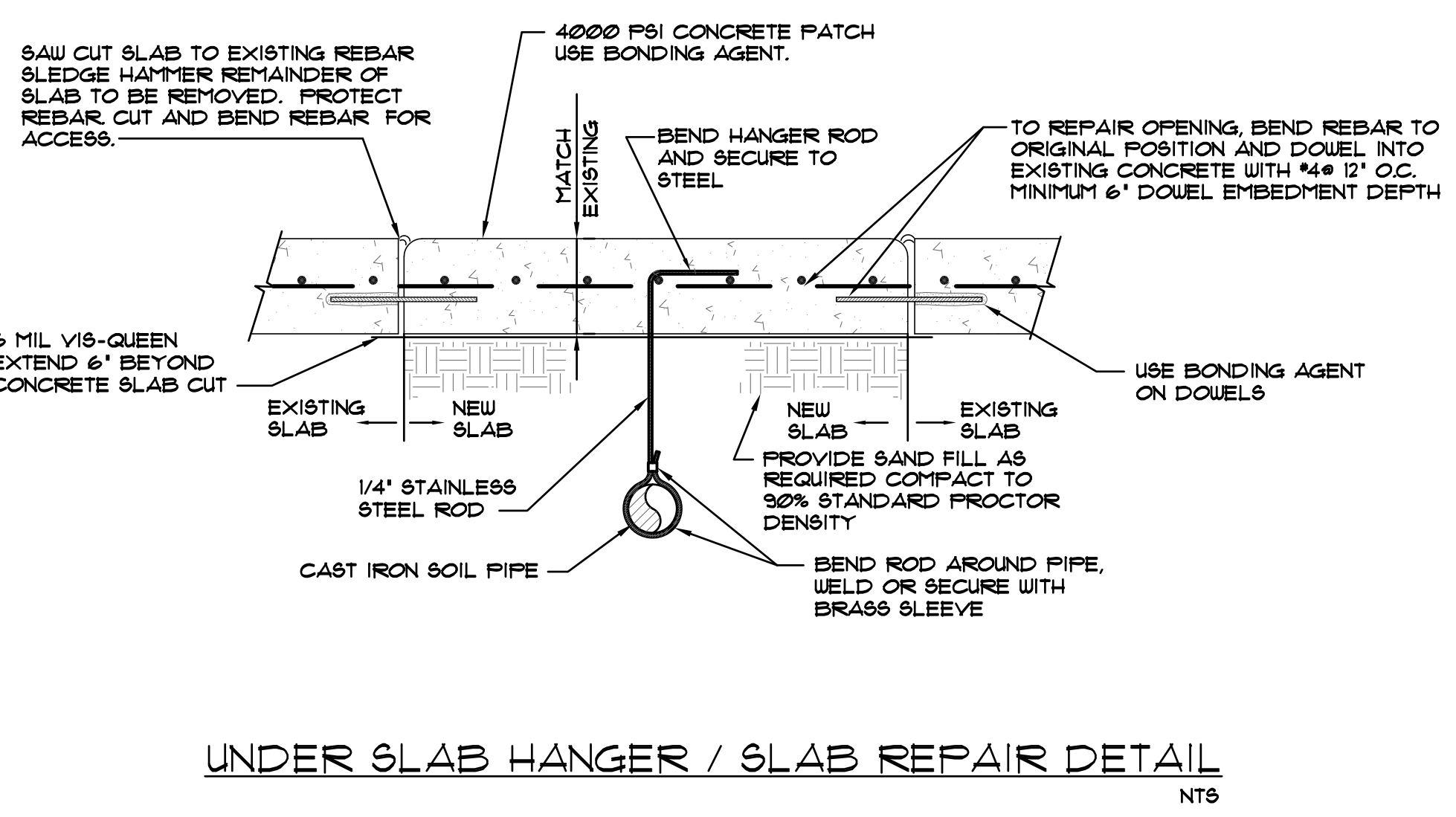
ELECTRIC WATER HEATER PIPING DIAGRAM
NOT TO SCALE



REDUCED PRESSURE BACK-FLOW PREVENTER DETAIL
NT8



GREASE TRAP DETAIL
NOT TO SCALE



UNDER SLAB HANGER / SLAB REPAIR DETAIL
NT8

GENERAL NOTES: (PERTAINS TO ALL SHEETS)

EACH CIRCUIT IS SHOWN WITH AN INDIVIDUAL HOME RUN. CONTRACTOR MAY ELECT TO COMBINE TWO OR MORE CIRCUITS IN ONE COMMON CONDUIT AND WITH COMMON NEUTRAL WHERE ALLOWED (CIRCUITS WITH HIGH CONTENT OF HARMONIC CURRENTS MAY NOT USE COMMON NEUTRAL. EXAMPLE: LIGHTING CIRCUITS WITH ELECTRONIC BALLASTS, CIRCUITS WITH NON-LINEAR ELECTRONIC POWER SUPPLIES, ETC.) NOTE: CAPACITIES OF CONDUCTORS SHALL BE REDUCED IF MORE THAN THREE CURRENT CARRYING CONDUCTORS ARE INSTALLED IN THE RACEWAYS. SEE NEC ARTICLE 310-15, 8(A) *NOTES TO AMPACITY TABLES OF 0 TO 2,000 VOLTS.* CONDUCTORS SHALL BE DERATED IF 4 OR MORE WIRES ARE INSTALLED IN ONE CONDUIT.

TEMPERATURE LIMITATIONS ON AMPACITY OF CONDUCTOR:
THE AMPACITY OF A CONDUCTOR SHALL BE SELECTED BASED ON THE NATIONAL ELECTRICAL CODE ARTICLES 310-15 AND 110-14-(C)-(1),(2),(3). THE TEMPERATURE LIMITATIONS NOTED IN 110-14-(C)-(1),(2),(3) MAY BE PARAPHRASED AS FOLLOWS:
(A) CIRCUITS RATED 100 AMP OR LESS:
USE 60°C RATED CONDUCTORS ONLY. 75°C AND 90°C CONDUCTOR MAY BE USED BUT ONLY AT 60°C AMPACITY.
EXCEPTIONS: HIGHER TEMPERATURE CABLE ARE ALLOWED PROVIDED THE EQUIPMENT IS LISTED AND IDENTIFIED FOR USE WITH THE HIGHER RATED CONDUCTORS.
(B) CIRCUITS RATED MORE THAN 100 AMP OR CONDUCTOR LARGER THAN NO. 1
USE 75°C RATED CONDUCTORS ONLY. 90°C CONDUCTOR MAY BE USED BUT ONLY AT 75°C AMPACITY.
EXCEPTIONS: HIGHER TEMPERATURE CABLE ARE ALLOWED PROVIDED THE EQUIPMENT IS LISTED AND IDENTIFIED FOR USE WITH THE HIGHER RATED CONDUCTORS.
WIRES OVERSIZED TO ALLEVIATE VOLTAGE DROP: WHERE OVERSIZED WIRES ARE USED TO ALLEVIATE VOLTAGE DROP, CONTRACTOR TO PROVIDE REDUCER LUGS AND/OR J-BOXES AS REQUIRED TO TERMINATE WIRES IN EQUIPMENT.

ALL ELECTRICAL AND COMMUNICATION DEVICES (LIGHT SWITCHES, RECEPTACLES, TELEPHONE, DATA ETC.) SHALL BE RECESSED MOUNTED UNLESS NOTED OTHERWISE. FIELD VERIFY RECEPTACLE MOUNTING REQUIREMENTS WITH OWNER'S ARCH., IF NO REQUIREMENTS, MOUNT ALL DUPLEX RECEPTACLES WITH THE "U" GROUND TERMINAL ON TOP, UNLESS NOTED OTHERWISE OR AS REQUIRED BY OWNER/ARCH. NEUTRAL TERMINAL SHALL BE ON TOP FOR HORIZONTALLY MOUNTED RECEPTACLES.

OWNER RESERVES THE RIGHT TO MOVE ANY OUTLETS 8 FEET IN ANY DIRECTION PRIOR TO ROUGH-IN. ALL RECEPTACLES WITHIN 6 FEET OF ANY WET AREA (EXAMPLE: SINK, DISHWASHER, ETC.) SHALL HAVE GROUND FAULT PROTECTION, WHETHER SPECIFICALLY INDICATED OR NOT ON DRAWINGS. GENERALLY ALL OUTLETS ARE TO BE MOUNTED ABOVE COUNTERTOP EXCEPT TELEPHONE, DATA, AND OUTLETS FOR DISPOSERS, UNDER-COUNTER REFRIGERATORS ETC. REFER TO ARCH INTERIOR ELEVATIONS ALL WEATHERPROOF \WET LOCATION AND\OR OUTDOOR RECEPTACLES SHALL HAVE "WEATHERPROOF-WHILE IN WET COVERS (NEC ARTICLE 410-57(B)). PROVIDE ROCO BELL RAYNITE 11 COVERS OR EQUAL.

SWITCHES\STARTERS FOR MECH. AND OTHER EQUIPMENT : LOCATION OF DISCONNECT SWITCHES, STARTERS, CONTROL STATIONS ETC. ARE SHOWN DIAGRAMMATICALLY ON THE DRAWINGS. INSTALL SUCH DEVICES IN COMPLIANCE WITH CODE REQUIRED CLEARANCE REQUIREMENTS. ALL SUCH DEVICES SHALL BE ACCESSIBLE AFTER AFTER EQUIPMENT ARE IN PLACE AND SATISFY CODE CLEARANCE REQUIREMENTS. REMOVE AND REINSTALL DEVICES THAT ARE INACCESSIBLE OR WITH INADEQUATE CODE CLEARANCE AT NO ADDITIONAL COST TO OWNER.

HVAC EQUIPMENT: OVERCURRENT DEVICES, DISCONNECT SWITCHES, CONDUIT\WIRE ARE SELECTED BASED ON EQUIPMENT SHOWN ON MECHANICAL DRAWINGS. FIELD VERIFY RATINGS OF EQUIP. SUPPLIED BY HVAC, REVISE ELECTRICAL AS REQUIRED TO MATCH ACTUAL EQUIPMENT SUPPLIED BY MECH. CONTRACTOR.

COORDINATE WITH EXHAUST FAN APPROVED SHOP DRAWINGS FOR POINTS OF CONNECTIONS AND WHETHER OR NOT A RACEWAY OPENING IS PROVIDED IN FAN CURB. IF NO CURB IS PROVIDED CONTRACTOR IS TO REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PITCH POCKET DETAILS.

DO NOT ENTER ANY BOXES, EQUIPMENT, ETC., LOCATED OUTDOORS OR WET LOCATIONS THROUGH THE TOP, UNLESS ABSOLUTELY NECESSARY OR APPROVED BY ARCHITECT IN WRITING, SUCH AS FOR DISCONNECT SWITCHES MOUNTED BELOW WIREWAYS, AND THEN USING EQUIPMENT MANUFACTURERS FACTORY HUBS, OR MYERS HUBS WITH NEOPRENE O RINGS. SEAL THE TOP TWO (2) THREADS OF ANY SUCH HUBS WITH RECTORSAL (PIPE THREAD SEALANT) TO PREVENT WATER FROM SPIRALING DOWN THE THREADS INTO THE EQUIPMENT. LEAVE ALL OTHER THREADS CLEAN AND DRY FOR GROUNDING CONTINUITY.

ALL CONNECTIONS OUTDOORS OR IN WET LOCATIONS SHALL BE MADE USING OXIDATION INHIBITING COMPOUND, PENETROX OR APPROVED EQUAL. THIS INCLUDES POWER AND GROUNDING CONNECTIONS INSIDE PANELS, WIREWAYS, BOXES, DISCONNECT SWITCHES, ELECTRICAL AND MECHANICAL EQUIPMENT, ETC..

ALL FUSES ON THIS PROJECT TO BE OF THE SAME MANUFACTURER. ALL FUSES IN EACH INDIVIDUAL DISCONNECT SWITCHES SHALL BE OF THE SAME IDENTICAL TYPE, AMPERAGE AND VOLTAGE RATING. ALL FUSES SHALL BE INSTALLED RIGHT SIDE UP, AND WITH THE AMPERAGE LABEL FACING OUT. FUSES OUTDOORS OR IN WET LOCATIONS SHALL BE INSTALLED USING OXIDATION INHIBITING COMPOUND (PENETROX OR EQUAL) IN ALL FUSEHOLDERS.

EVERY RACEWAY ON THIS PROJECT SHALL CONTAIN A GREEN INSULATED COPPER GROUND WIRE. THIS INCLUDES LIGHT FIXTURE WHIPS.

ALL EQUIPMENT FURNISHED AND ALL WORK SHALL BE IN STRICT CONFORMITY WITH ELECTRICAL SECTION OF REGULATORY INSPECTIONS FOR ORLEANS PARISH, STATE FIRE MARSHALL, N.E.C. 2011 EDITION & ALL OTHER APPLICABLE LAWS, ORDINANCES, CODES & RULES OF CONSTRUCTION APPLICABLE IN THE LOCALITY OF WORK.

PERMITS, CERTIFICATES OF INSPECTION AND APPROVAL AS APPLICABLE TO THE VARIOUS PORTIONS OF THE WORK SHALL BE OBTAINED FROM THE INSPECTION AGENCY HAVING JURISDICTION THEREON AND SHALL BE DELIVERED TO THE ARCHITECT PRIOR TO ACCEPTANCE OF THE WORK. PAY ALL FEES REQUIRED IN CONNECTION WITH VARIOUS INSPECTIONS AND PERMITS.

ALL LIGHTING FIXTURES, SWITCHES, RECEPTACLES, PLUGMOLD ETC. SHALL COMPLY WITH STANDARDS OF U.L. INC.

ELECTRICAL PLANS SHOW GENERAL WORK TO BE PERFORMED BY CONTRACTOR AND HAS BEEN PREPARED TO ASSIST THE CONTRACTOR IN PREPARING HIS PROPOSED COST FOR THE TOTAL PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK AND FINAL BID PRICE.

ALL PENETRATIONS THROUGH PARTITIONS, CEILINGS, FLOORS, ETC.,SHALL BE PROPERLY SEALED TO MAINTAIN FIRE RATING OF CEILING, FLOOR, PARTITIONS, ETC.

THE NUMBER OF CROSSMARKS SHOWN TO INDICATE THE NUMBER OF CONDUCTORS FOR A BRANCH CIRCUIT DOES NOT INCLUDE THE EQUIPMENT GROUND CONDUCTOR.

UPON COMPLETION, CONTRACTOR SHALL FURNISH AS-BUILT SCHEMATIC DRAWING OF ALL VARIATIONS OF EXISTING PLANS TO OWNER.

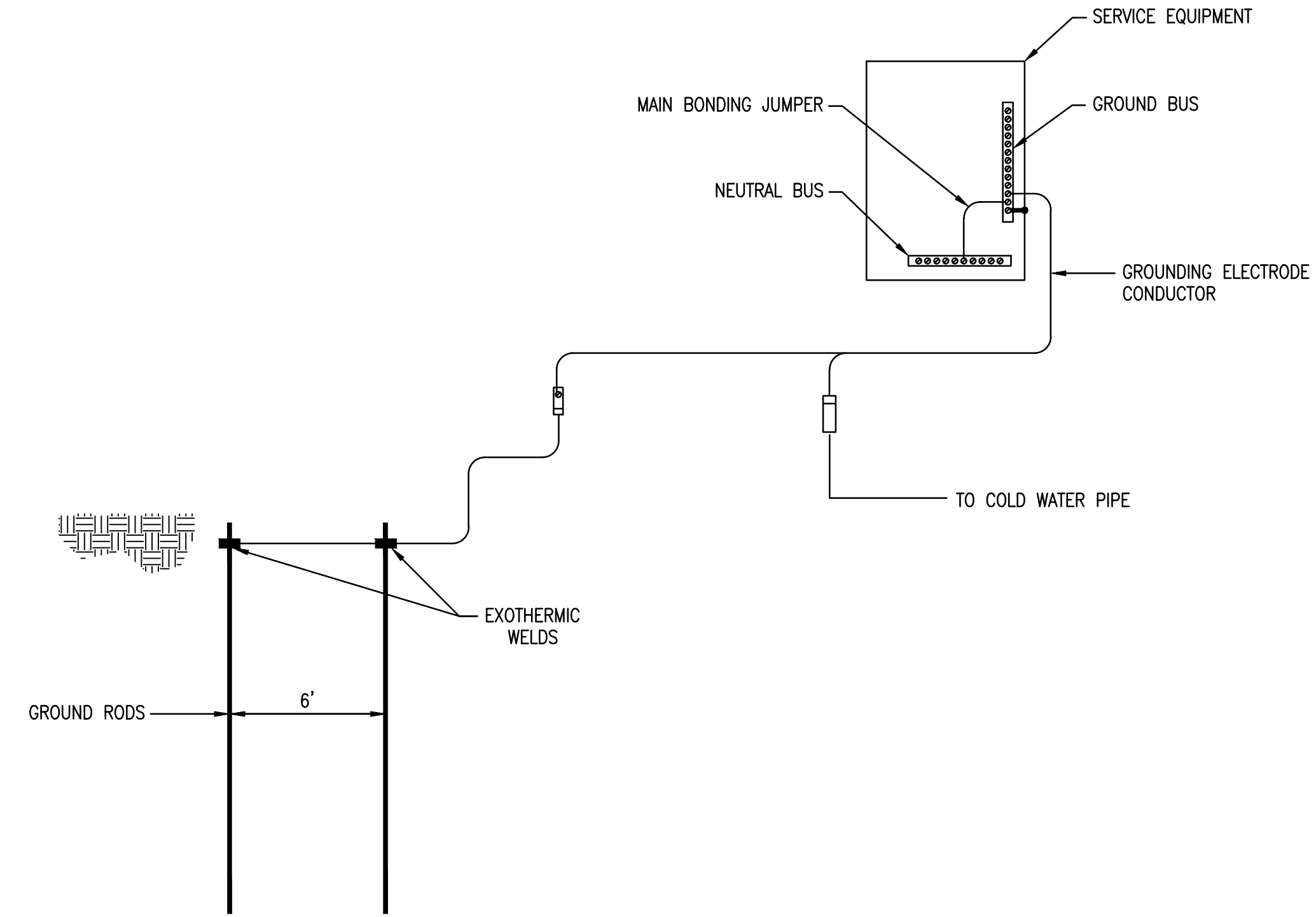
COORDINATE ALL FINAL TERMINATION POINTS OF HVAC, PLUMBING, EQUIPMENT, OWNER SUPPLIED EQUIPMENT, ETC., WITH APPROVED SHOP DRAWINGS OR OWNERS EQUIPMENT VENDOR PRIOR TO START OF ROUGH-IN. WHERE REQUIRED, CONTRACTOR SHALL FIELD MOUNT U.L. LISTED AND APPROVED LUGS FOR OVERSIZED CONDUCTORS SPECIFIED.

LOOP CONDUIT FROM ONE DEVICE BOX TO THE OTHER OR ONE LIGHT FIXTURE BOX TO THE OTHER LIGHT FIXTURE BOX AND ALL SPLICES SHALL BE MADE IN THE DEVICE BOXES AND FIXTURE JUNCTION BOXES. DO NOT INSTALL ADDITIONAL JUNCTION BOXES IN CEILING OR WALLS TO BRANCH OFF CIRCUITS.

MECHANICAL EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO START OF ROUGH-IN.

SYMBOL SCHEDULE:

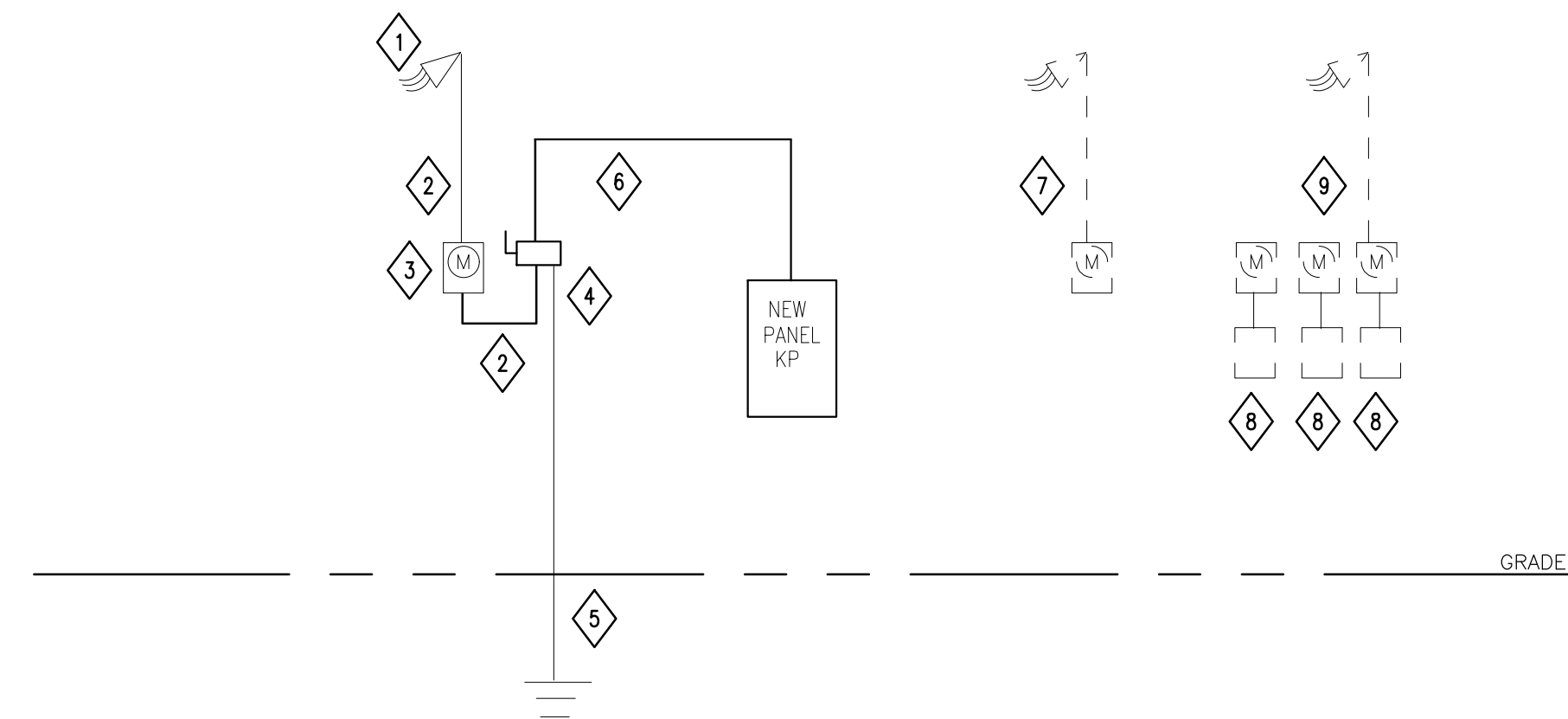
	LIGHTING AND RECEPTACLE PANELBOARD
	CONDUIT RUN CONCEALED
	HOMERUN TO PANEL BOARD - ARROWS INDICATE NO. OF CIRCUITS, CROSS MARKS INDICATE NO. OF WIRES WHEN MORE THAN TWO
	DISCONNECT SWITCH
	JUNCTION BOX - USE RAISED COVER & BLANK PANEL IN FINISHED AREAS
	EXIT LIGHT, UNIVERSAL MOUNT CHEVRON ARROWS WITH BATTERY BACKUP
	WALL MOUNTED BATTERY LIGHT FIXTURE



2 GROUNDING AND BONDING DIAGRAM
NOT TO SCALE

SPECIFIC NOTES:

- 1 NEW 120/240V, SINGLE PHASE, 3 WIRE OVERHEAD SERVICE
- 2 3#750, 4" RGS CONDUIT
- 3 METER. COORDINATE WITH ENTERGY
- 4 400A, 2P, S/N, NEMA 3R FDS FUSED AT 400A
- 5 #2/0 BARE COPPER GROUND, 1" C. TO TWO (2) 3/4"x10" COPPERWELD GROUND RODS SPACED 6' APART, AND TO C.W. PIPE
- 6 3#750, #3 ground 4" CONDUIT



1 POWER RISER DIAGRAM
SCALE: N.T.S.

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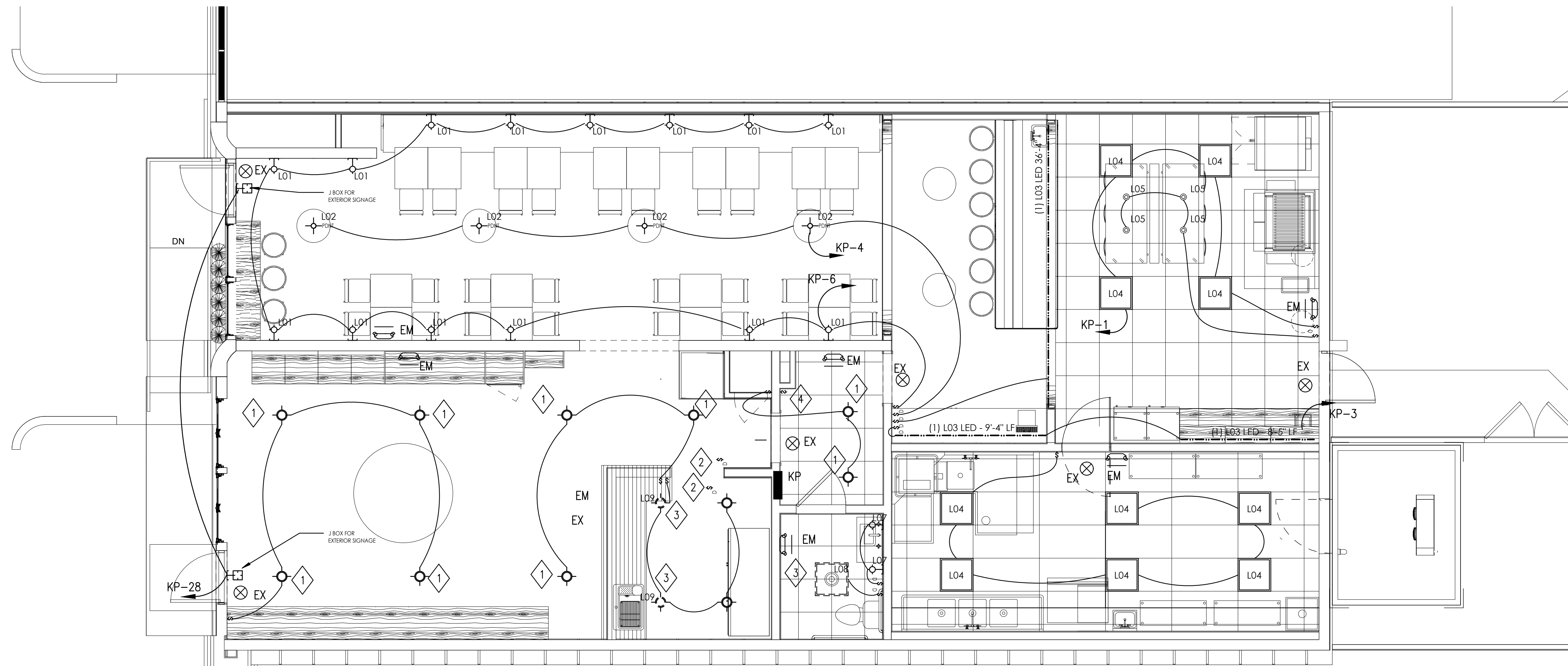
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POWER RISER

E101

JOLLY CONSULTANTS, INC
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Kenner, La. 70065
Phone: 504-236-6644
Fax: 504-467-4318



1 FLOOR PLAN—LIGHTING SYSTEMS
SCALE: 1/4" = 1'-0"

ELECTRICAL SYMBOLS

- ⊕ 110 DUPLEX RECEPTACLE
- ⊕ GFI DUPLEX RECEPTACLE
- ⊕ EXTERIOR DUPLEX RECEPTACLE
- ⊕ 110 QUAD RECEPTACLE, ISOLATED GROUND
- ⊕ APPLIANCE / EQUIP. RECEPTACLE
- ⊕ DUPLEX RECEPTACLE, FLOOR UNIT
- ⊕ SWITCH, SINGLE POLE
- ⊕ SWITCH, 3 WAY
- ⊕ SWITCH, DIMMER
- ⊕ SWITCH, OCCUPANCY SENSOR
- ⊕ SWITCH, DIMMABLE OCCUPANCY SENSOR
- ⊕ SWITCH, AIR OR COMPRESSION

LIGHTING SYMBOLS

- ⊕ 3" RECESSED
- ⊕ 4" RECESSED
- ⊕ 6" RECESSED
- ⊕ WALL MOUNT
- ⊕ FLOOD
- ⊕ LIT SIGNAGE
- ⊕ RECESSED SHOWER, WATER PROOF
- ⊕ CEILING MOUNTED
- ⊕ DIRECTIONAL, EXAMPLE:
- ⊕ PENDANT, CEILING MOUNTED
- ⊕ MONO-POINT
- ⊕ TRACK LIGHTING
- ⊕ HEAT LAMP
- ⊕ UTILITY FIXTURE; LED; REUSE EXISTING FIXTURES IN SPACE
- ⊕ LED PANEL
- ⊕ HI / LO BAY LED
- ⊕ LED STRIP

AV / LOW VOLT

- ⊕ CEILING MOUNTED SPEAKER, EXTERIOR AS NOTED
- ⊕ TV COAXIAL
- ⊕ LIGHTING SCENE SELECTOR
- ⊕ DOME SECURITY CAMERA
- ⊕ DATA POINT
- ⊕ DATA / PHONE (DOUBLE DATA JACK)
- ⊕ SMOKE DETECTOR
- ⊕ SMOKE & CARBON DETECTOR

SPECIFIC NOTES:

- 1 EXISTING LIGHT FIXTURE TO REMAIN. PROVIDE WIRING AS INDICATED
- 2 RELOCATE EXISTING SWITCHES TO BAR KNEEL WALL. EXTEND EXISTING WIRING TO NEW LOCATION AS REQUIRED
- 3 REMOVE AND REPLACE EXISTING LIGHT FIXTURE. PROVIDE WIRING AS INDICATED
- 4 RELOCATE EXISTING SWITCH TO OUTSIDE OF DATA ROOM. EXTEND EXISTING WIRING TO NEW LOCATION AS REQUIRED

NOTES:

1. WIRE ALL EM AND EX FIXTURES TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SERVING AREA

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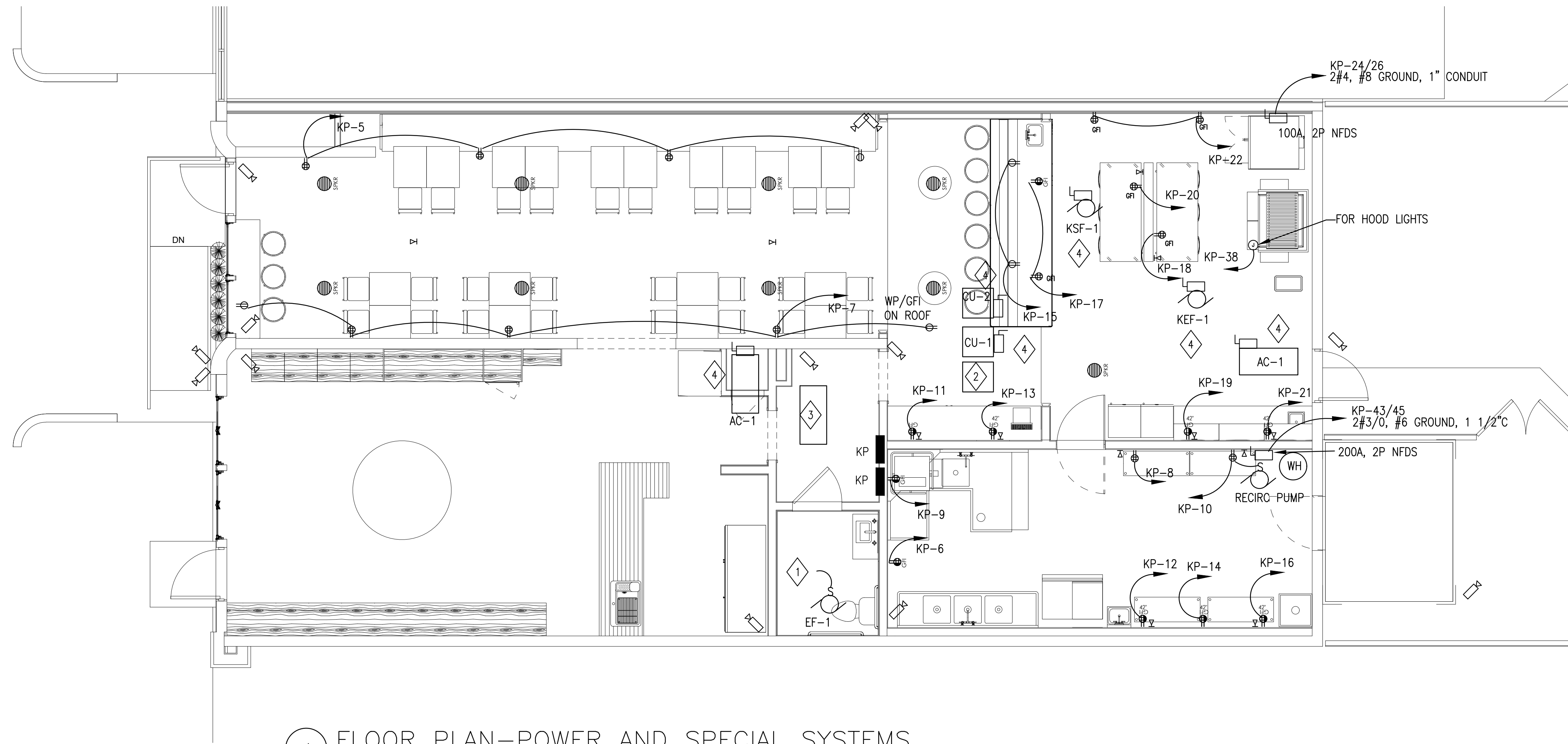
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FLOOR PLAN-LIGHTING

E102

JOLLY CONSULTANTS, INC
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Fax: 504-467-4318



1 FLOOR PLAN—POWER AND SPECIAL SYSTEMS
SCALE: 1/4" = 1'-0"

MECHANICAL EQUIPMENT WIRING SCHEDULE—APARTMENTS							
TAG	SAFETY SWITCH—AHU	CONDUCTORS	CIRCUIT	TAG	SAFETY SWITCH—CONDENSING UNIT	CONDUCTORS	CIRCUIT
AHU-1	60/2P FDS (FU. Ⓞ 80A)	2#3 & #8(G), 1°C.	KP-23/25	CU-1	60/2 NEMA 3R FDS (FU. Ⓞ 45A)	2#6 & #10(G), 3/4°C.	HP-30/32
AHU-2	60/2P FDS (FU. Ⓞ 50A)	2#6 & #10(G), 3/4°C.	KP-27/29	CU-2	60/2 NEMA 3R FDS (FU. Ⓞ 45A)	2#6 & #10(G), 3/4°C.	HP-34/36
KEF-1	30/2P FDS NEMA 3R(FU. Ⓞ 15A)	2#12 & #12(G), 3/4°C.	KP-31/33	-	-	-	-
KSF-1	30/2P FDS NEMA 3R(FU. Ⓞ 15A)	2#12 & #12(G), 3/4°C.	KP-37/39	-	-	-	-

- SPECIFIC NOTES:**
- 1 CONNECT TO SWITCH PORTION OF LIGHT FIXTURE
 - 2 EXISTING CONDENSING UNIT RELOCATED FROM REAR YARD TO ROOF. INTERCEPT EXISTING FEEDER AND EXTEND TO NEW PANEL KP
 - 3 EXISTING AIR HANDLING UNIT TO REMAIN. INTERCEPT EXISTING FEEDER AND EXTEND TO NEW PANEL KP
 - 4 REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR ELECTRICAL REQUIREMENTS. COORDINATE EXACT LOCATIONS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-INS. ALL FUSES INSTALLED IN SAFETY SWITCHES LOCATED AT HVAC UNITS SHALL BE SIZED PER HVAC UNIT MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT FUSE SIZE REQUIRED WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT VENDOR.

JOLLY CONSULTANTS, INC
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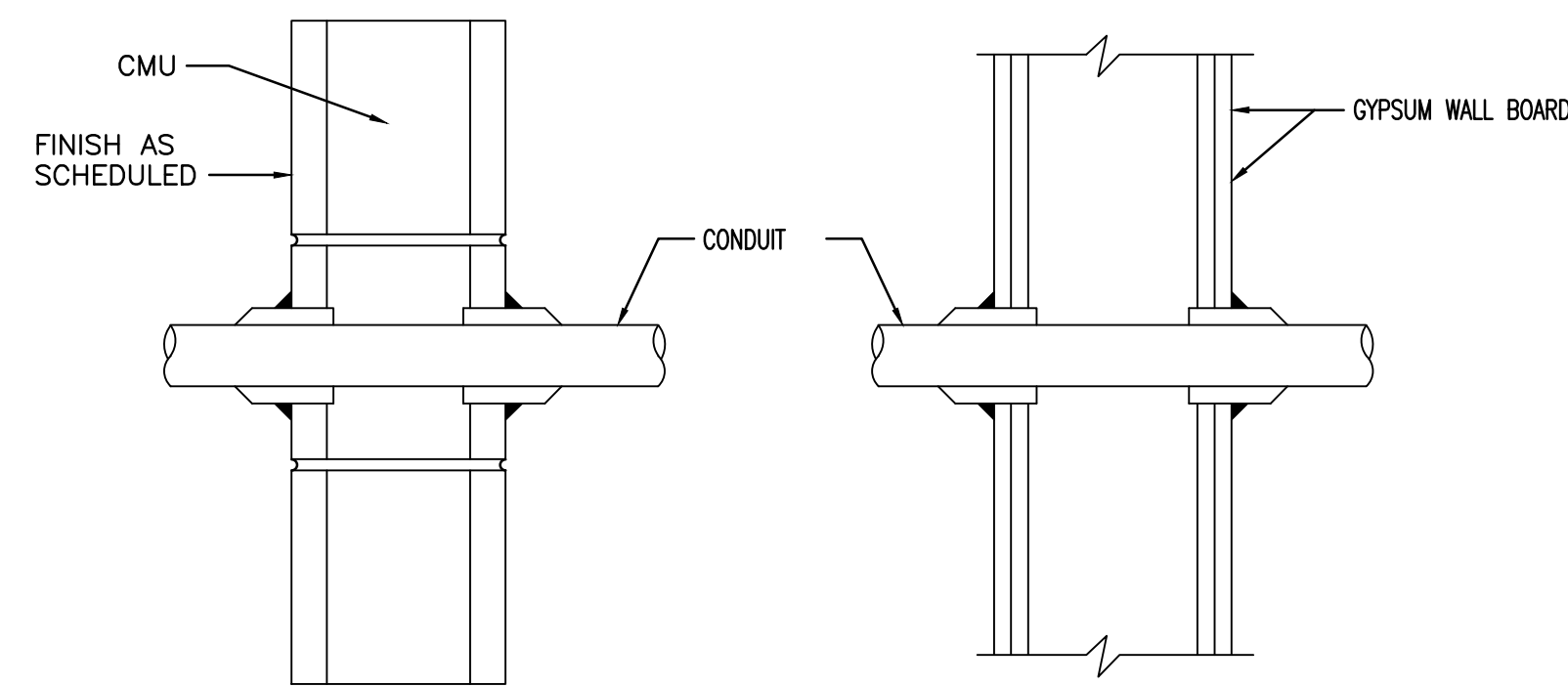
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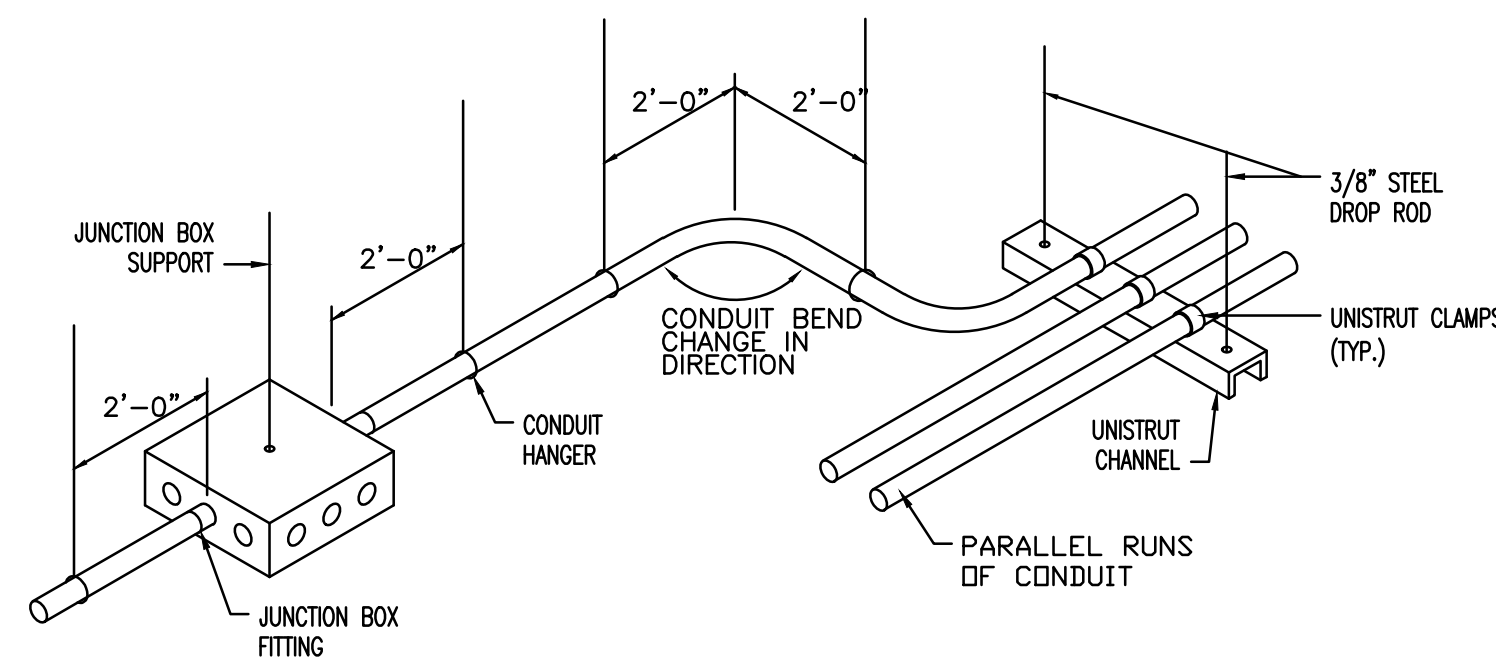
POWER AND SPECIAL SYSTEMS
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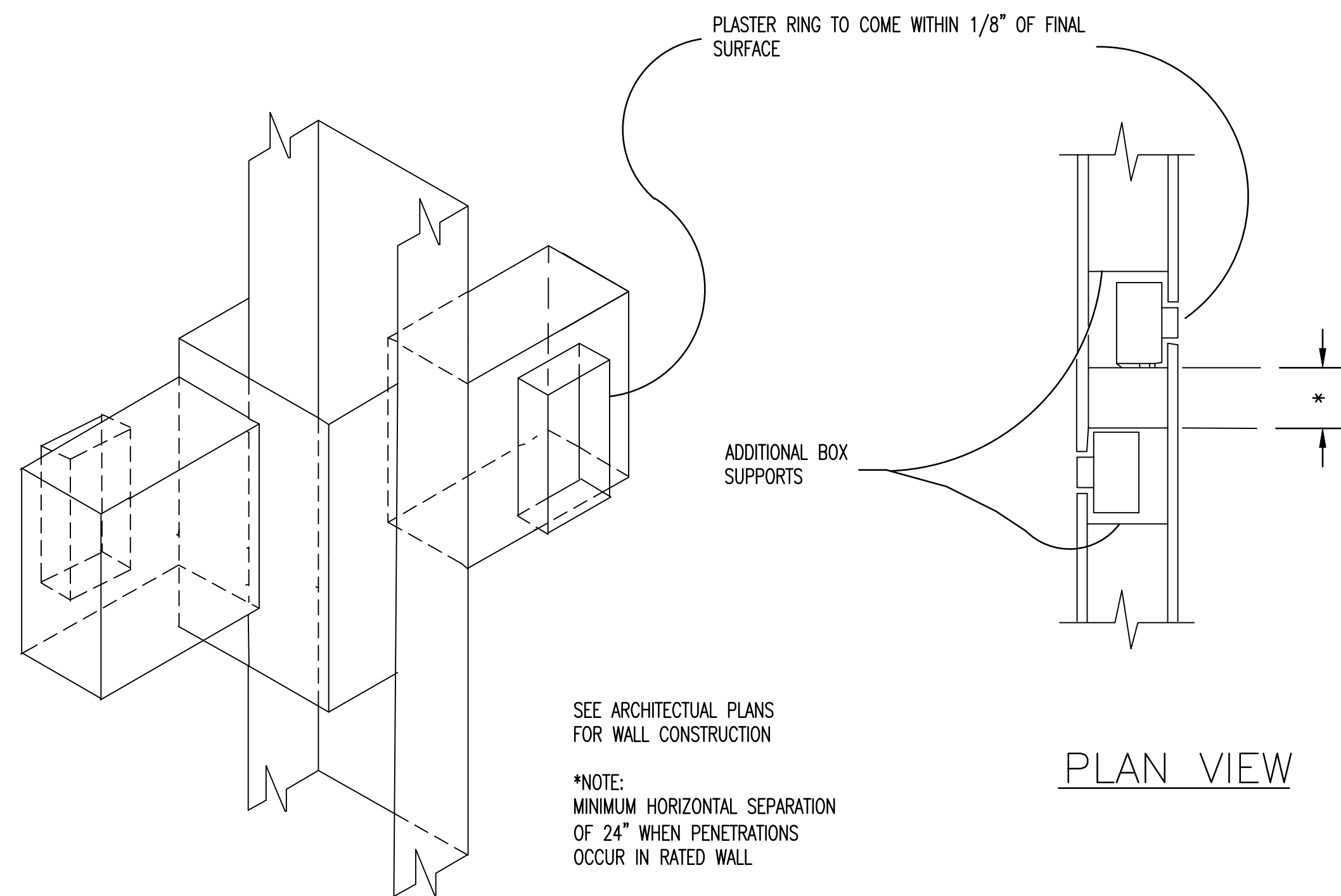
3/4" TO 3-1/2" CONDUIT: CAULK FILL MATERIAL (3M TYPES CP-25 S/L, CP-25 N/S) FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE AND WITH A MINIMUM 1/4" DIAMETER BEAD OF CAULK APPLIED TO PERIMETER CONDUIT AT ITS EGRESS FROM THE WALL.

4" CONDUIT: NOMINAL 1/4" THICK INTUMESCENT ELASTOMERIC MATERIAL (3M TYPE FS-195) FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2" WIDE STRIPS. NOMINAL 2" WIDE STRIP TIGHTLY WRAPPED AROUND STEEL CONDUIT (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX. 1-1/4" SUCH THAT APPROX. 3/4" OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE.

1 RATED WALL PENETRATION DETAIL
SCALE: N.T.S.



2 HANGAR AND SUPPORT DETAIL
SCALE: N.T.S.



SEE ARCHITECTURAL PLANS FOR WALL CONSTRUCTION

*NOTE: MINIMUM HORIZONTAL SEPARATION OF 24" WHEN PENETRATIONS OCCUR IN RATED WALL

3 DEVICE OUTLETS SIDE BY SIDE
NOT TO SCALE

PANEL KP							
120/240V, 1Ø, 3W, 400A MAINS, M.L.O., S/N, FLUSH MTD., 22,000 A.I.C.							
TYPE LOAD	CKT NO.	BRKR	BUS		BRKR	CKT NO.	TYPE LOAD
			A	C			
LIGHTING	1	20/1	⌋	⌋	⌋	2	LIGHTING
LIGHTING	3	20/1	⌋	⌋	⌋	4	LIGHTING
RECEPTACLES	5	20/1	⌋	⌋	⌋	6	RECEPTACLES
RECEPTACLES	7	20/1	⌋	⌋	⌋	8	RECEPTACLES
RECEPTACLES	9	20/1	⌋	⌋	⌋	10	RECEPTACLES
RECEPTACLES	11	20/1	⌋	⌋	⌋	12	RECEPTACLES
RECEPTACLES	13	20/1	⌋	⌋	⌋	14	RECEPTACLES
RECEPTACLES	15	20/1	⌋	⌋	⌋	16	RECEPTACLES
RECEPTACLES	17	20/1	⌋	⌋	⌋	18	RECEPTACLES
RECEPTACLES	19	20/1	⌋	⌋	⌋	20	RECEPTACLES
RECEPTACLES	21	20/1	⌋	⌋	⌋	22	RECEPTACLES
AHU-1	23	80/2	⌋	⌋	⌋	24	CONVECTION OVEN
	25		⌋	⌋	⌋	26	
AHU-2	27	50/2	⌋	⌋	⌋	28	SIGN
	29		⌋	⌋	⌋	30	CU-1
KEF-1	31	15/2	⌋	⌋	⌋	32	
	33		⌋	⌋	⌋	34	CU-2
SPARE	35	20/1	⌋	⌋	⌋	36	
KEF-1	37	15/2	⌋	⌋	⌋	38	HOOD LIGHTING
	39		⌋	⌋	⌋	40	SECURITY SYSTEM
SPARE	41	20/1	⌋	⌋	⌋	42	SOUND SYSTEM

PROVIDE WITH U.L. LISTED AN APPROVED FEED THRU LUGS

PANEL KP							
120/240V, 1Ø, 3W, 400A MAINS, M.L.O., S/N, FLUSH MTD., 22,000 A.I.C.							
TYPE LOAD	CKT NO.	BRKR	BUS		BRKR	CKT NO.	TYPE LOAD
			A	C			
WATER HEATER	43	190/2	⌋	⌋	⌋	44	EXISTING AHU
	45		⌋	⌋	⌋	46	
EXISTING LOAD	47	20/1	⌋	⌋	⌋	48	EXISTING CU
EXISTING LOAD	49	20/1	⌋	⌋	⌋	50	EXISTING LOAD
EXISTING LOAD	51	20/1	⌋	⌋	⌋	52	EXISTING LOAD
EXISTING LOAD	53	20/1	⌋	⌋	⌋	54	EXISTING LOAD
EXISTING LOAD	55	20/1	⌋	⌋	⌋	56	EXISTING LOAD
EXISTING LOAD	57	20/1	⌋	⌋	⌋	58	EXISTING LOAD
EXISTING LOAD	59	20/1	⌋	⌋	⌋	60	EXISTING LOAD
SPARE	61	20/1	⌋	⌋	⌋	62	SPARE
SPARE	63	20/1	⌋	⌋	⌋	64	SPARE
SPARE	65	20/1	⌋	⌋	⌋	66	SPARE
SPARE	67	20/1	⌋	⌋	⌋	68	SPARE
SPARE	69	20/1	⌋	⌋	⌋	70	SPARE
BUSSED SPACE	71		⌋	⌋	⌋	72	BUSSED SPACE
BUSSED SPACE	73		⌋	⌋	⌋	74	BUSSED SPACE
BUSSED SPACE	75		⌋	⌋	⌋	76	BUSSED SPACE
BUSSED SPACE	77		⌋	⌋	⌋	78	BUSSED SPACE
BUSSED SPACE	79		⌋	⌋	⌋	80	BUSSED SPACE
BUSSED SPACE	81		⌋	⌋	⌋	82	BUSSED SPACE
BUSSED SPACE	83		⌋	⌋	⌋	84	BUSSED SPACE

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PANEL SCHEDULES

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