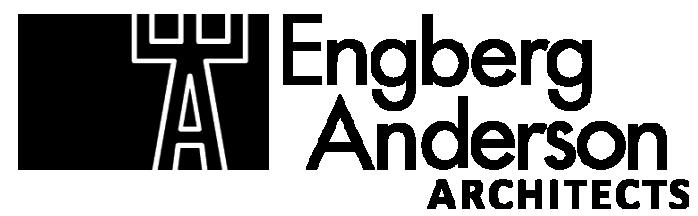


# CRESTON-DEMEN PUBLIC LIBRARY



MILWAUKEE | MADISON | TUCSON | CHICAGO

# NEW BUILDING CRESTON, IL 60113

PROJECT

# CRESTON-DEMENT PUBLIC LIBRARY

W CEDARHOLM ST & N MAIN ST  
CRESTON, IL 60113

## Creston-Dement Public Library Kristi Scherer

107 S MAIN ST  
CRESTON IL 60113

CRESTON, BC V0J 1J0

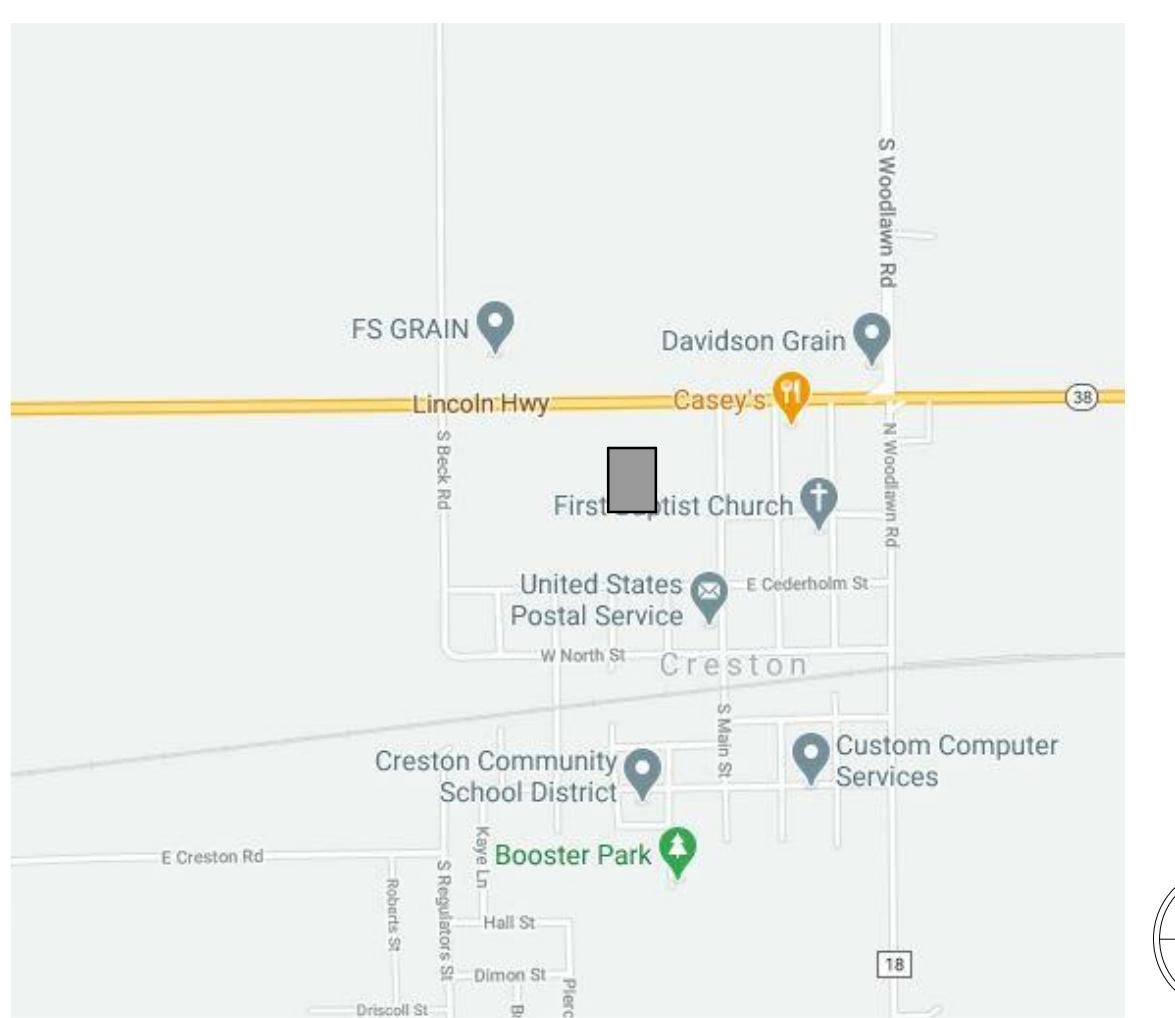
## PROJECT NUMBER

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TITLE SHEET

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TE | LOCATION MAP



# G000

ABBREVIATIONS - FINISH	
FINISH TAG	FINISH DESCRIPTION
ACS	ACOUSTICAL CEILING SYSTEM
ACT	ACOUSTICAL CEILING TILE
AWP	ACOUSTICAL WALL PANEL
CG	CORNER GUARD
CPT	CARPET TILE
CT	CERAMIC TILE
DR	DRAPEY
DST	DIMENSIONAL STONE TILE
EP	EPOXY FLOORING
EX	EXISTING
FWC	FABRIC WALL COVERING
GL	GLASS
GWB	PAINTED GYP BOARD CEILING
LIN	LINOLEUM
MP	METAL PANEL
OTS	OPEN TO STRUCTURE
PLAM	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE / RESILIENT BASE
RF	RESILIENT FLOOR
RT	RESILIENT TILE
RWP	RIGID WALL PROTECTION
SC	SEALED CONCRETE
SSM	SOLID SURFACE
ST	STAIN
STC	STAINED CONCRETE
SV	SHEET VINYL
TWP	FABRIC WRAPPED TACKABLE PANEL
TZ	TERAZZO
VCT	VINYL COMPOSITION TILE
WVC	VINYL WALL COVERING
WD	WOOD
WM	WALK OFF MAT

#	Angle	G	Gas	PSF	Pounds per Square Foot
@	Centerline	GA	Gauge	PSI	Pounds per Square Inch
Ø	Plate	GAL	Gallon	QT	Quarry Tile
	Number	GALV	Galvanized	QTY	Quantity
	At	GB	Grab Bar		
	Diameter	GC	General Contractor	R	Riser(s)
AC	Air Conditioning	GLULAM	Glue-Laminated	RAD	Radius
ACT	Acoustical Ceiling Tile	GND	Ground	RB	Resilient Base
ADJ	Adjacent	GS	Galvanized Steel	RD	Roof Drain
AFF	Above Finish Floor	GWB	Gypsum Wall Board	REF	Refer, Reference
ALT	Alternate	GYP	Gypsum	REFR	Refrigerator
ALUM	Aluminum	HB	Hose Bibb	REV	Reinforced(ing), (ed)
ANOD	Anodized	HCPD	Handicapped	RM	Revision(s), Revise(d)
APPROX	Approximate	HDWR	Hardware	RO	Rough Opening
ASPH	Asphalt	HORIZ	Hollow Metal	ROW	Right of Way
Avg	Average	HVAC	Horizontal	RTU	Roof Top Unit
B.0.	Bottom of		Heating, Ventilating, & Air	RWL	Rain Water Leader
B/.....	Bottom of .....(steel, concrete, etc.)	HW	Conditioning		
BD	Board		Hot Water	SCHED	Schedule
BITUM	Bituminous	ID	Inside Diameter	SD	Smoke Detector
BLDG	Building	INCAND	Incandescent	SIM	Similar
BRG	Bearing	INCL	Include(d), (ing), (ton)	SPEC	Specification(s)
BSMT	Basement	INSUL	Insulate(d), (ing), (ton)	SPKR	Speaker
BTM	Bottom	INT	Interior	SQ	Square
BUR	Built up Roofing	JAN	Janitor	STA	Stainless Steel
CAB	Cabinet	JT	Joint	STC	Station
CB	Catch Basin				Sound Transmission
CG	Corner Guard	KIT	Kitchen	STD	Coefficient
CJ	Control Joint			STL	Standard
CLG	Ceiling	LAB	Laboratory	STR	Steel
CM	Construction Manager	LAM	Laminate(d)	SUSP	Storage
CMU	Concrete Masonry Unit	LAV	Lavatory	SV	Structural
CO	Clean Out	LBS	Pounds		Suspend(ed)
COL	Column	LL	Live Load	T	Sheet Vinyl
CONC	Concrete	LVR	Louver	T&B	Tread
CONST	Construct(ion)			T&G	Top and Bottom
CONT	Continuous	MAS	Masonry	T.O.	Tongue & Groove
CONTR	Contractor	MATL	Material(s)	T/....	Top of...(steel, conc., etc.)
CORR	Corridor	MAX	Maximum	TEL.	Telephone
CPT	Carpet(ed)	MDO	Medium Density Overlay	TEMP	Temperature
CRS	Course(s)	MECH	Mechanical	THRESH	Threshold
CT	Ceramic Tile	MFR	Manufacturer	TLT	Toilet
CUH	Cabinet Unit Heater	MH	Manhole	TS	Tubular Steel
D	Penny (nail size)	MISC	Miscellaneous	TYP	Television
DBL	Double	MO	Masonry Opening		Typical
DEG	Degree	MTL	Metal	UG	Underground
DEMO	Demolish/Demolition	MULL	Mullion	UL	Underwriter's Laboratories
DEPT	Department			UNO	Unless Noted Otherwise
DIAG	Diagonal	NIC	Not in Contract	UR	
DIAM	Diameter	NO	Number	UTIL	
DIM	Dimension	NOM	Nominal		
DL	Dead Load	NRC	Noise Reduction Coefficient	VCT	Vinyl Composition Tile
DN	Down	NTS	Not To Scale	VENT	Ventilation
DT	Drain Tile			VERT	Vertical
DWG	Drawing	OC	On Center	VEST	Vestibule
		OD	Outside Diameter		
EA	Each	OFF	Office	VTR	Vent Through Roof
EDF	Electric Drinking Fountain	OPNG	Opening	VVC	Vinyl Wall Covering
EIFS	Ext. Insul. & Finish System	OPP	Opposite		
EJ	Expansion Joint	OPT	Option(al)	W/	With
EL	Elevation	OZ	Ounce	W/O	Without
ELEC	Electric(al)			WC	Water Closet
ELEV	Elevator			WCO	Wall Clean Out
EMER	Emergency	P.T.	Pressure Treated	WD	Wood
ENCL	Enclosure(ure)	PBD	Particle Board	WH	Water Heater
EP	Electrical Panel	PC	Precast Concrete	WP	Weatherproof
EQ	Equal	PED	Pedestal	WSCT	Wainscot
EWH	Electric Wall Heater	PER	Perforated	WWF	Welded Wire Fabric
EXIST	Existing	PERIM	Perimeter		
EXT	Exterior	PERP	Perpendicular	YD	Yard(s)
FA	Fire Alarm	PLAM	Plastic Laminate		
FAB	Fabricate	PRELIM	Preliminary		
FD	Floor Drain	PROP	Property		
FE	Fire Extinguisher	PRV	Power Roof Ventilator		
FEC	Fire Extinguisher Cabinet w/Extinguisher				
FHC	Fire Hose Cabinet				
FIN	Finish(ed)				
FLR	Floor				
FND	Foundation				
FO	Face of				
FT	Foot, Feet				
FTG	Footing				
FUT	Future				

CRESTON-DEMENT PUBLIC LIBRARY  
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Kristi Scherer  
107 S MAIN ST  
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PROJECT NUMBER 182836

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NO. DESCRIPTION

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## ABBREVIATIONS

G001

ARCHITECTURAL SYMBOLS		WALL AND DOOR SYMBOLS	
BUILDING ELEVATION	Room Name	NEW WALLS: REFER TO DEALS AND WALL TYPES	
Sheet Number	Room name	8888 SF	NEW CMU WALL
BUILDING SECTION	Room Name	8888	NEW CONCRETE WALL
Sheet Number	Room Number		EXISTING WALL TO BE REMOVED
WALL SECTION	Room Name	8888	
Sheet Number	Room Number	8888 SF	
DETAIL REFERENCE	Room Name	8888	Program Required Square Footage
Sheet Number	Room Number	8888 SF	Actual Square Footage
INTERIOR ELEVATION	X-X		NEW COLUMN GRID
Sheet Number	X-X		EXISTING COLUMN GRID
KEY NOTE	ELEVATION EL. 000'-0"		ELEVATION INDICATOR
WALL TYPE			
WINDOW OR BORROWED LIGHT			
REVISION BUBBLE			
Ceiling Type	ACT-1 10' - 0"		CEILING TYPE
Ceiling Elevation			
DOOR TAG			
SEE DRAWINGS OF RESPECTIVE DISCIPLINES FOR ADDITIONAL SYMBOLS			

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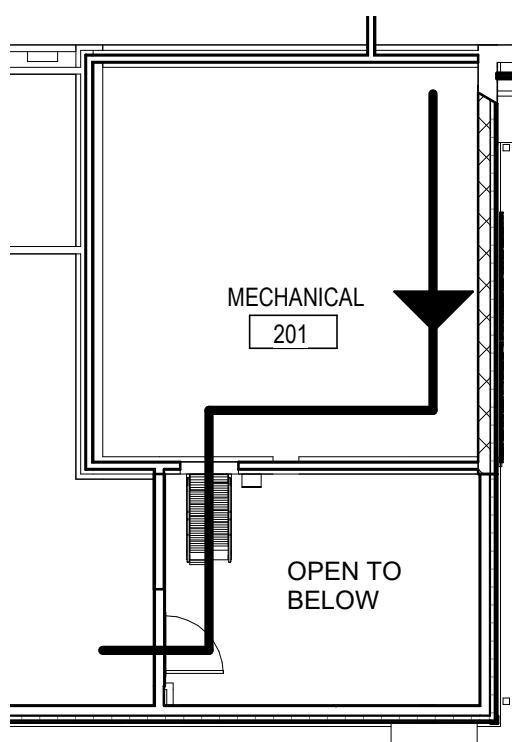
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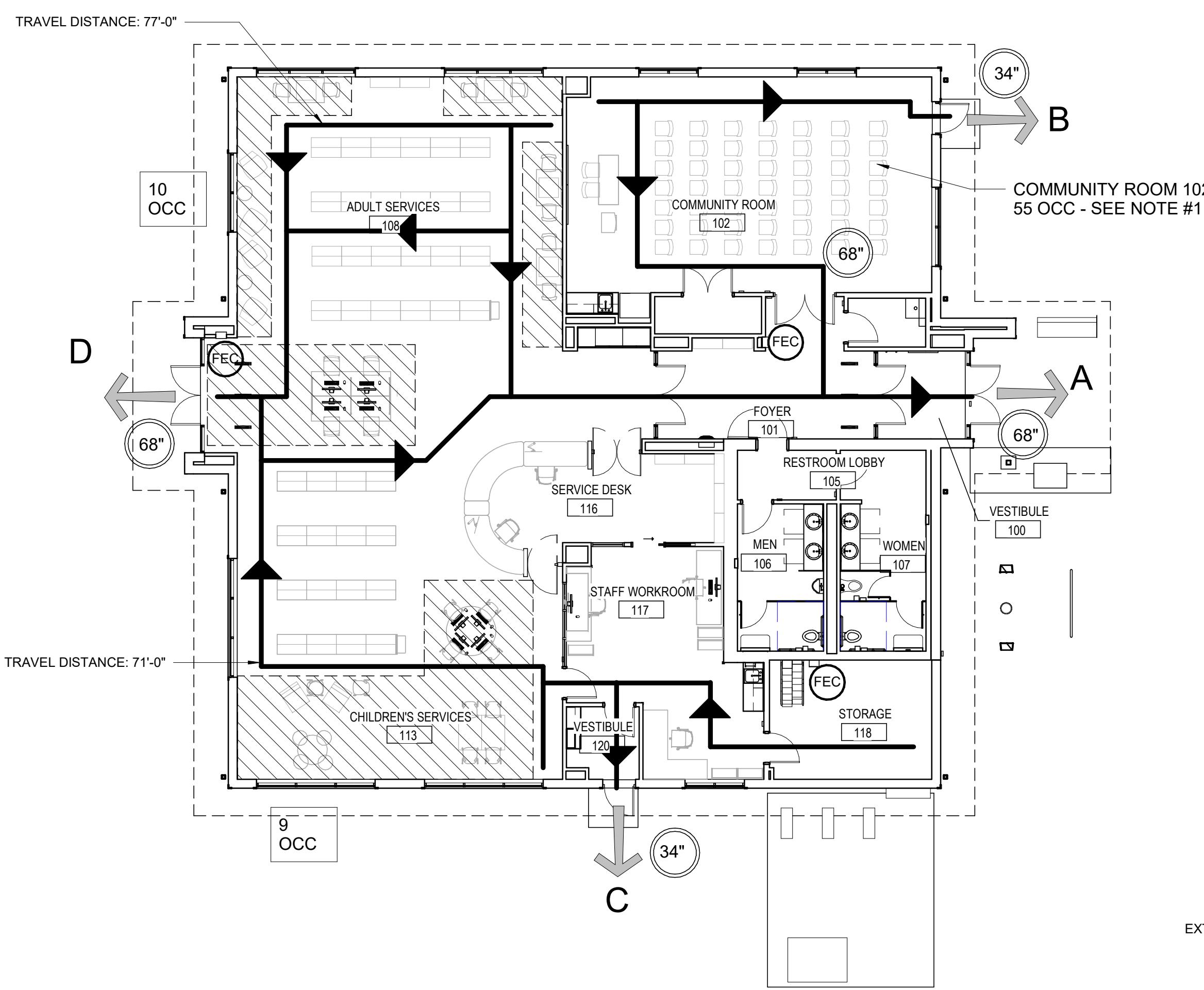
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GRAPHIC SYMBOLS	
	PATH OF EGRESS
	EXIT TO GRADE
	1 HOUR FIRE PARTITION
	EGRESS COMPONENT WIDTH
	FIRE EXTINGUISHER IN CABINET
Room name 88888	Room Number
##	Area Occupancy Count
	READING ROOM OCCUPANCY COUNT (50 SQFT PER OCCUPANT) WITHIN STACK AREAS



### 5 MEZZANINE EQUIPMENT LEVEL

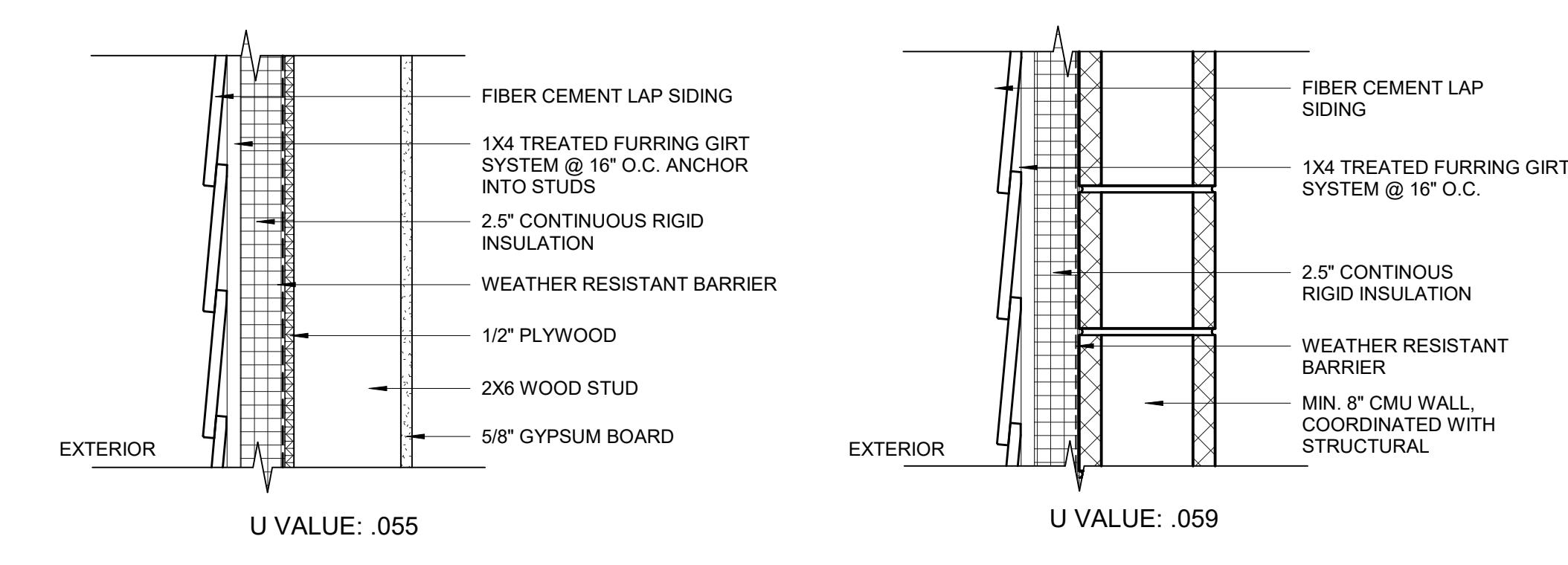
SCALE: 1" = 10'-0"



### 1 FIRST FLOOR CODE CONFORMANCE

SCALE: 1" = 10'-0"

APPLICABLE CODES				
ZONING CODE	CODE OF ORDINANCES VILLAGE OF CRESTON, IL CHAPTER 105			
BUILDING CODE	INTERNATIONAL BUILDING CODE 2018 CODE OF ORDINANCES VILLAGE OF CRESTON, IL CHAPTER 101			
ACCESSIBILITY CODE	ILLINOIS ACCESSIBILITY CODE			
FIRE SAFETY CODE	2006 INTERNATIONAL FIRE CODE			
PLUMBING CODE	ILLINOIS STATE PLUMBING CODE			
ELECTRICAL CODE	2005 NATIONAL ELECTRIC CODE			
MECHANICAL CODE	2006 INTERNATIONAL MECHANICAL CODE			
ENERGY CODE	ILLINOIS STATE ENERGY CONSERVATION CODE			
NOTES				
ZONING				
CLASSIFICATION	A-1 TO C-1, C-2, OR C-4			
PERMITTED USE				
MINIMUM LOT SIZE	5000 SQ.FT.			
MAXIMUM HEIGHT	30'			
SETBACKS REQUIRED				
FRONT YARD	0'			
SIDE YARD	0'			
REAR YARD	60'			
PARKING				
# OF SPACES REQ'D	1 SPACE PER 300 SF NET FLOOR AREA (18 SPACES TOTAL)			
# OF SPACES PROVIDED	28 SPACES TOTAL			
NOTES				
BUILDING DATA				
OCC. CLASSIFICATION	A-3			
CONSTRUCTION TYPE	TYPE V-B			
SPRINKLERED	NO			
SEISMIC CATEGORY	A			
NUMBER OF STORIES	1+ MECHANICAL MEZZANINE			
SQUARE FEET/FLOOR				
FIRST FLOOR LEVEL	5,143 SF			
MECHANICAL MEZZANINE	417 SF			
BUILDING TOTAL SIZE	5,560 SF			
CONSTRUCTION REQUIREMENTS				
OCC. SEPARATION	N/A			
EXT. WALLS-NON BEARING	0 HOUR > 30'-0"			
OPENINGS	NO LIMIT > 30'-0"			
STRUCTURAL FRAME	0 HOUR			
PARTITIONS	0 HOUR			
SHAFT ENCLOSURES	1 HOUR			
FLOOR/CEILING	0 HOUR			
ROOF/CEILING	0 HOUR			
ROOFING CLASSIFICATION	CLASS - C			
STAIR CONSTRUCTION	1 HOUR			
ENERGY				
CLIMATE ZONE	ZONE 5A			
ENVELOPE REQUIREMENTS	R-VALUE	U-VALUE	PROVIDED	
ROOF	30	0.032	R-30 / .032	
WALLS	13 + 3.8Cl or 20	0.064	R-13.75	
BELOW GRADE	7.5	0.119 (C-VALUE)	R-10	
FLOORS	30	0.033	NA	
SLAB ON GRADE	10 @ 24" BELOW	0.54 (F-VALUE)	R-11	
DOORS	4.75	0.37	0.37	
FENESTRATION REQUIREMENTS	U-VALUE	SHGC SEW	SHGC N	PROVIDED
FIXED	0.38	0.38	0.51	U-0.35 / 0.27
OPERABLE	0.45	0.38	0.51	NA
DOORS	0.77	0.38	0.51	U-0.77
SKYLIGHTS	0.50	0.40	NA	



2 EXTERIOR WALL ASSEMBLY 1  
SCALE: 1 1/2" = 1'-0"

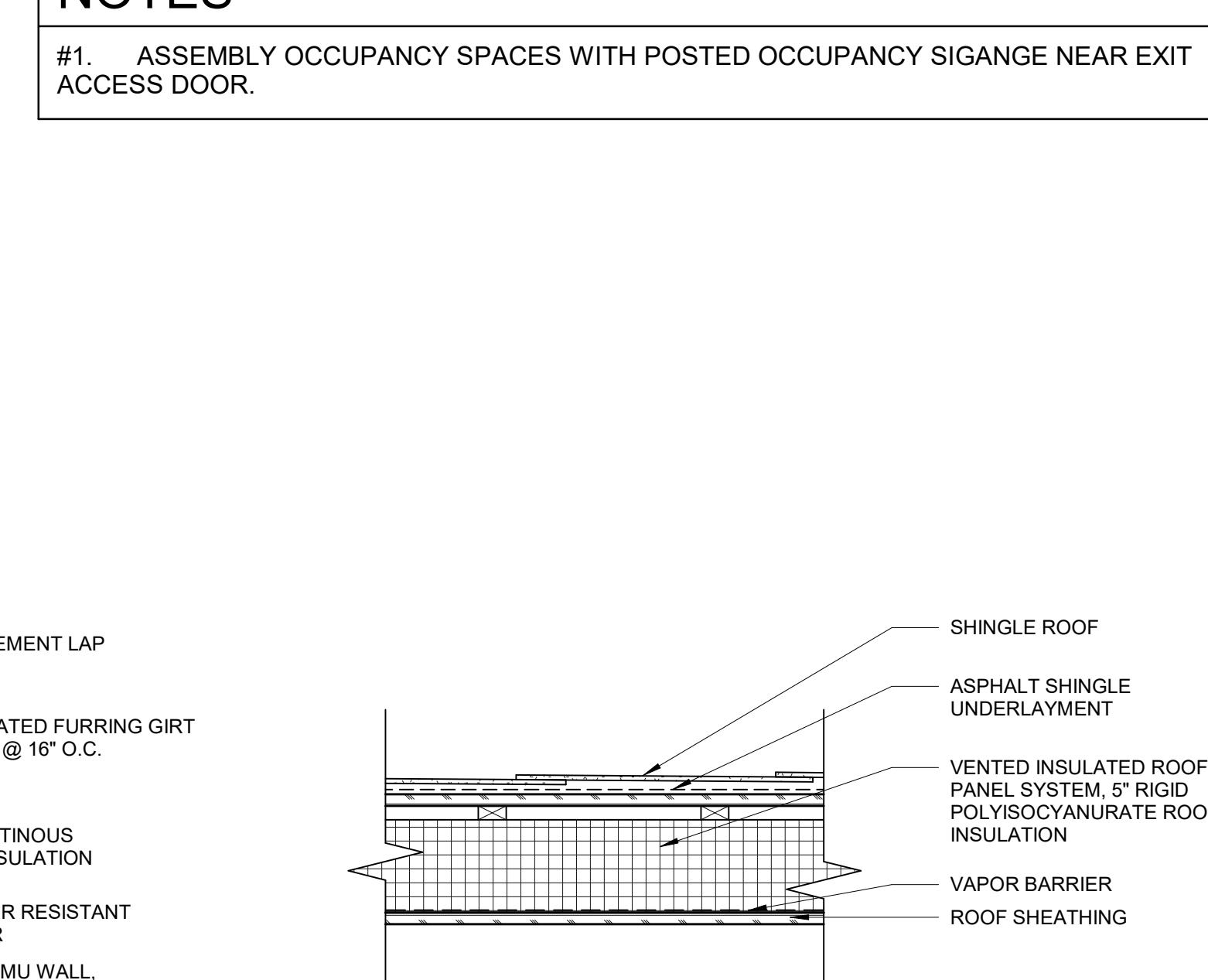
MEANS OF EGRESS				
OCCUPANT LOAD	107 OCCUPANTS			
FIRST FLOOR LEVEL	105 OCCUPANTS			
MEZZANINE LEVEL	2 OCCUPANTS			
ASSEMBLY WIDTH REQ'D - MAIN	1/2 TOTAL (PER IBC 1029.2) = 22.2 INCHES			
EXIT DOOR WIDTH REQ'D - 1ST	0.15 INCH / OCCUPANT = 11.1 INCHES			
EXIT ACCESS TRAVEL DISTANCE	200'-0" MAX. ALLOWED W/O SPRINKLER			
COMMON PATH OF TRAVEL	75'-0" MAX. ALLOWED			
		REQUIRED	PROVIDED	
FIRST FLOOR LEVEL		3 EXITS	4 EXITS	
EXIT A (MAIN ASSEMBLY EXIT)		28" = 185 OCC.	68" = 453 OCC.	
EXIT B		28" = 185 OCC.	34" = 226 OCC.	
EXIT C		34" = 226 OCC.	34" = 226 OCC.	
EXIT D		28" = 185 OCC.	68" = 453 OCC.	

## PLUMBING

ILLINOIS PLUMBING CODE				
ILLINOIS PLUMBING CODE OCCUPANCY CALCULATION: 76 OCCUPANTS				
FIXTURES	OCCUPANT LOAD	REQUIREMENTS	REQUIRED	PROVIDED
WATER CLOSETS	MEN 38	1-15: 1; 16-35: 2; 36-55: 3	2*	2*
	WOMEN 38	1-15: 1; 16-35: 2; 36-55: 3	2	2
LAVATORIES	MEN 38	1-15: 1; 16-35: 2; 36-60: 3	2	2
	WOMEN 38	1-15: 1; 16-35: 2; 36-60: 3	2	3
DRINKING FOUNTAINS		1 PER 75	2**	2**
SERVICE SINKS			1	1

## NOTES

#1. ASSEMBLY OCCUPANCY SPACES WITH POSTED OCCUPANCY SIGNAGE NEAR EXIT ACCESS DOOR.



3 EXTERIOR WALL ASSEMBLY 2  
SCALE: 1 1/2" = 1'-0"

4 ROOF ASSEMBLY  
SCALE: 1 1/2" = 1'-0"

A001

GENERAL NOTE - SITE	
1. REFER TO CIVIL, MECHANICAL & ELECTRICAL DRAWINGS FOR SITE INFORMATION.	
2. REFER TO PLANS AND ELEVATIONS FOR DOWNSPOUT INFORMATION.	
BENCH	OWNER PROVIDED, CONTRACTOR INSTALLED
BIKE RACK	OWNER PROVIDED, CONTRACTOR INSTALLED
BOOK DROP	OWNER PROVIDED, CONTRACTOR INSTALLED

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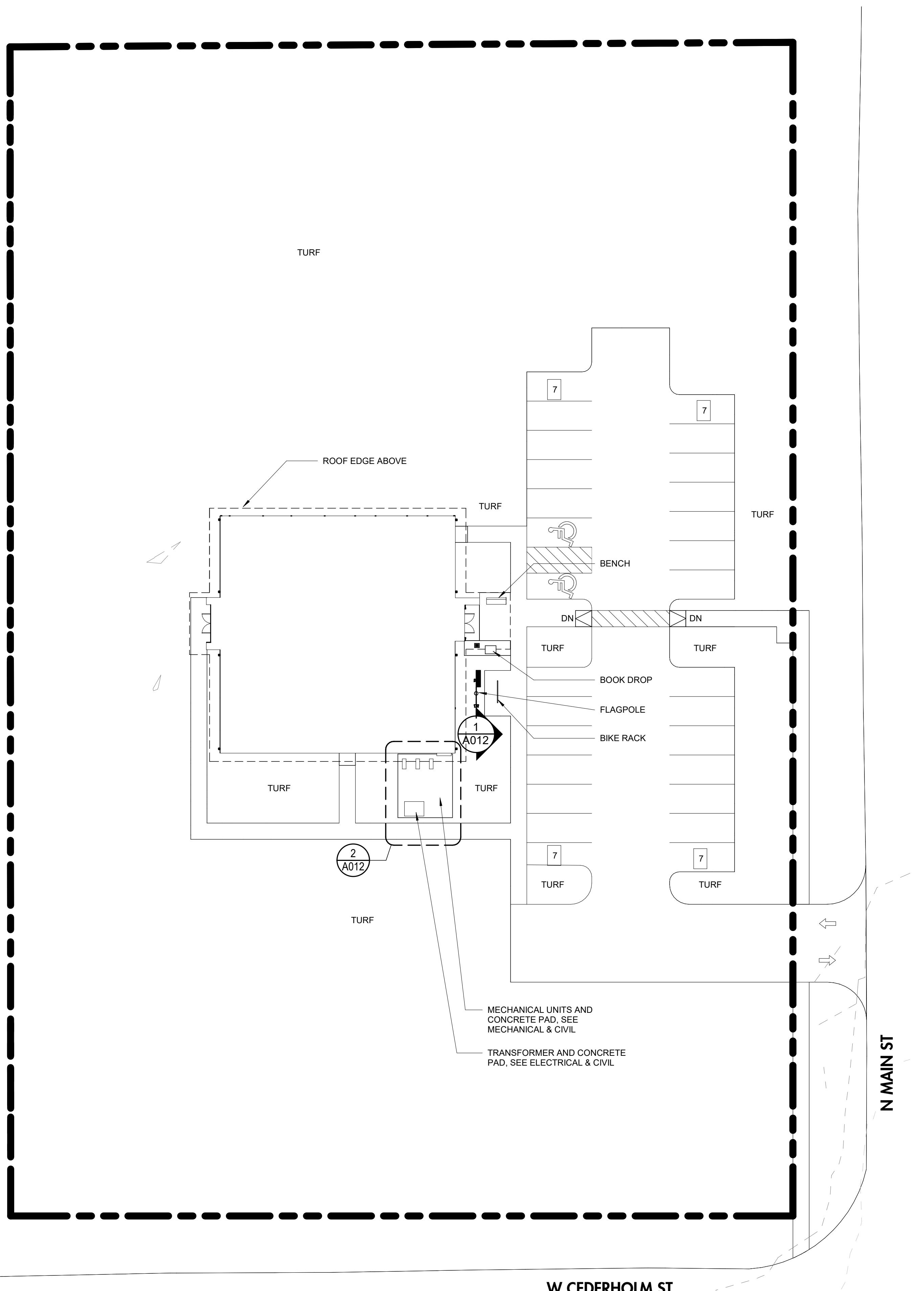
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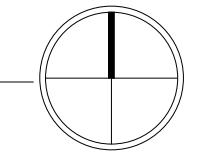
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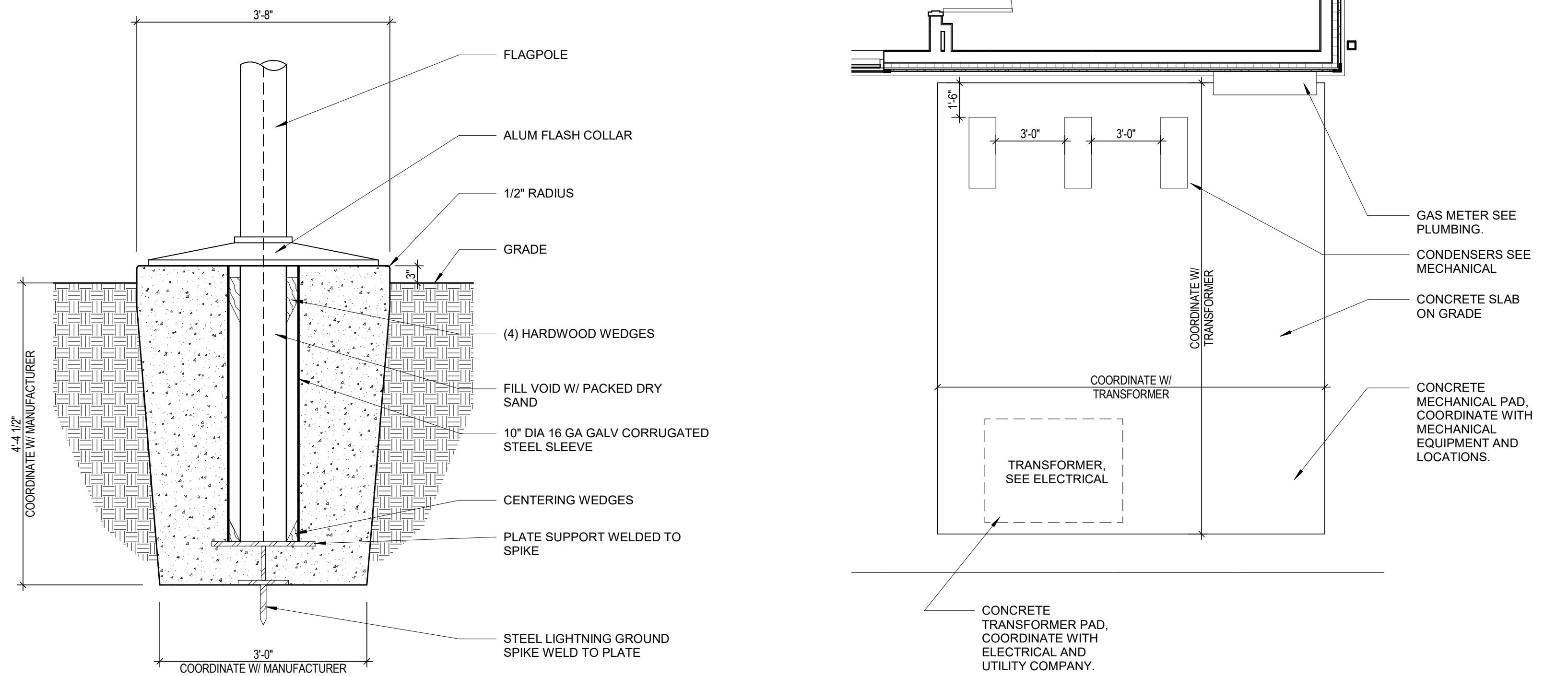
## ARCHITECTURAL SITE PLAN



1 ARCHITECTURAL SITE PLAN  
SCALE: 1" = 20'-0"



A010


**1 FLAGPOLE DETAIL**

SCALE: 3/4" = 1'-0"

**2 ENLARGE PLAN AT TRANSFORMER ENCLOSURE**

SCALE: 1/4" = 1'-0"

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Checker \_\_\_\_\_**SITE DETAILS****A012**

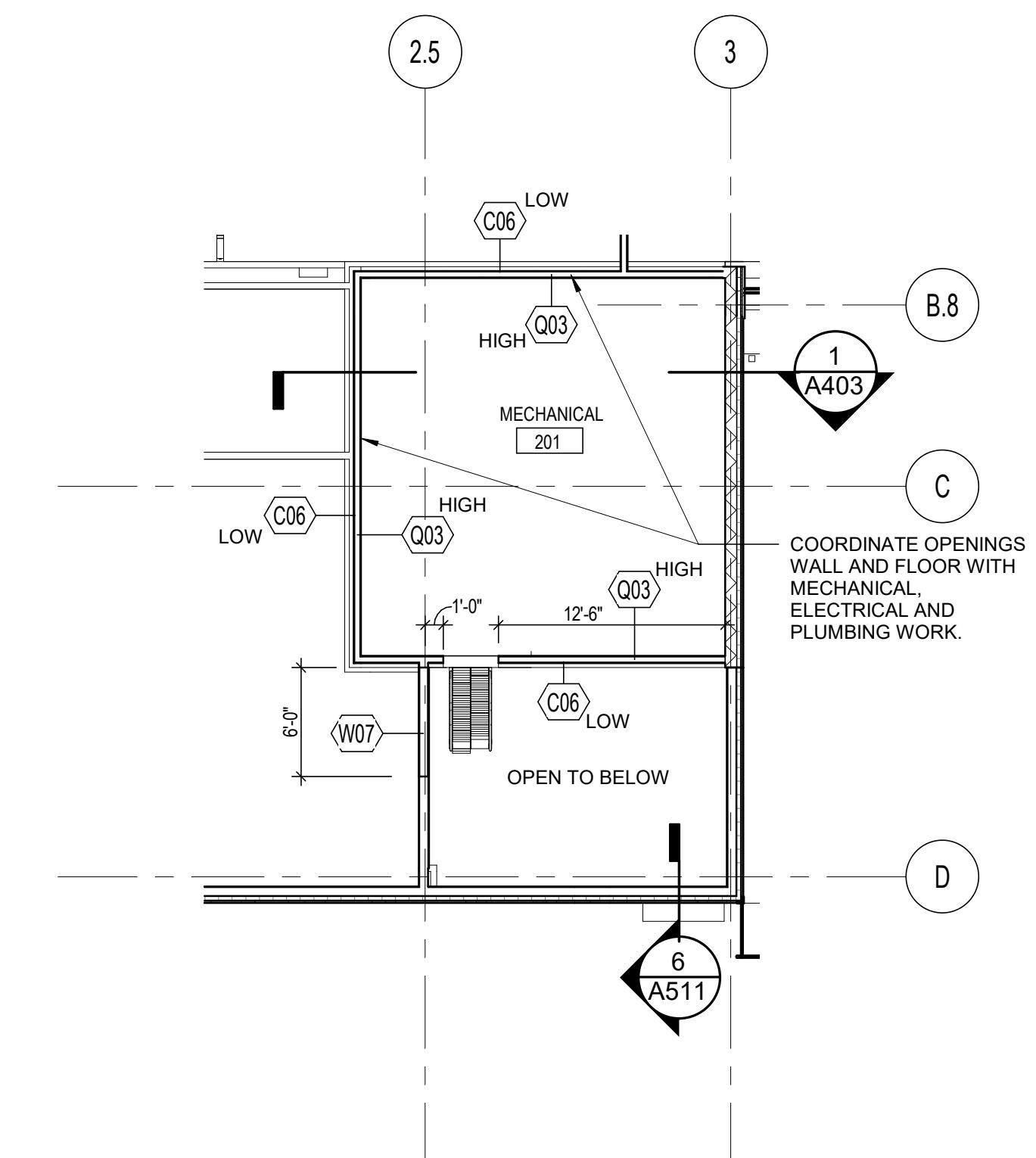
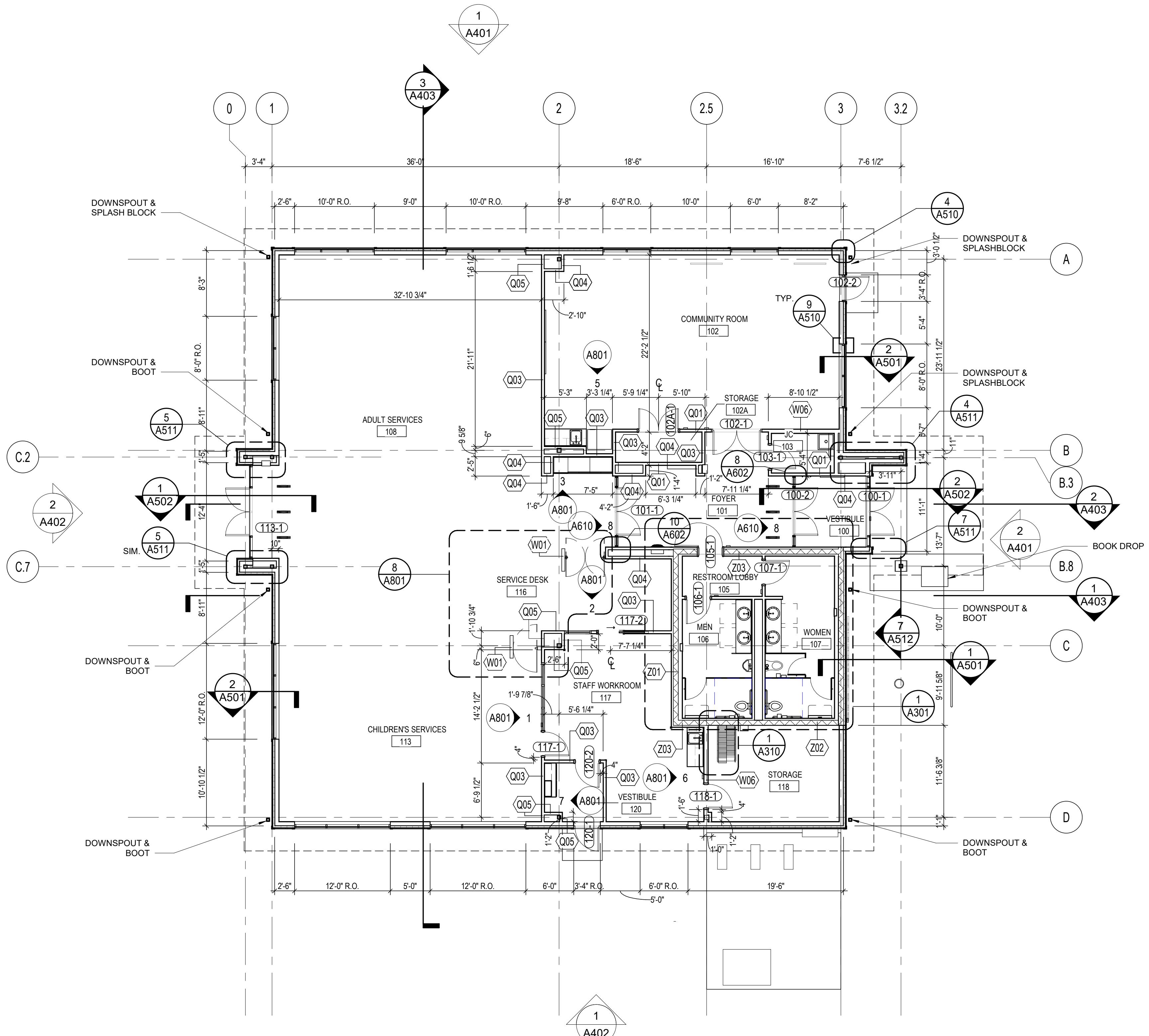
**GENERAL NOTES**

1. EACH CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PERTINENT TO THEIR WORK PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE CONTINUATION OF WORK.
2. DO NOT SCALE DRAWINGS. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENT OVER SMALLER SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DRAWING DISCREPANCIES.
3. ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES.
4. PROVIDE WALL BLOCKING AS REQ'D BEHIND WALL MOUNTED SPECIALTY EQUIPMENT AND MILLWORK.
5. EXTERIOR DIMENSIONS ARE TAKEN TO FACE OF SHEATHING/CMU OR ROUGH OPENING U.N.O. INTERIOR DIMENSIONS ARE TAKEN TO FACE OF GYPSUM BOARD.
6. COORDINATION INSTALLATION OF EQUIPMENT AND MATERIALS BETWEEN PLUMBING, ELECTRICAL, STRUCTURAL, AND MECHANICAL.
7. REFER TO DETAILS FOR WINDOW SILLS

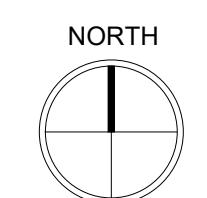
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**FIRST FLOOR  
PLAN &  
MEZZANINE LEVEL  
FLOOR PLAN****1 FIRST FLOOR PLAN**

SCALE: 1/8" = 1'-0"

**2 MECHANICAL MEZZANINE LEVEL**

SCALE: 1/8" = 1'-0"

**A101**

## GENERAL NOTES

1. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL FOR ROOF PENETRATIONS AND EQUIPMENT.
  2. DO NOT SCALE DRAWINGS. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENT OVER SMALLER SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DRAWING DISCREPANCIES.
  3. ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES.
  4. COORDINATION INSTALLATION OF EQUIPMENT AND MATERIALS BETWEEN PLUMBING, ELECTRICAL, STRUCTURAL, AND MECHANICAL.

# RESTON-DEMEN T PUBLIC LIBRARY

CEDARHOLM ST & N MAIN ST  
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Bston-Dement Public Library  
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S MAIN ST  
ESTON, IL 60113

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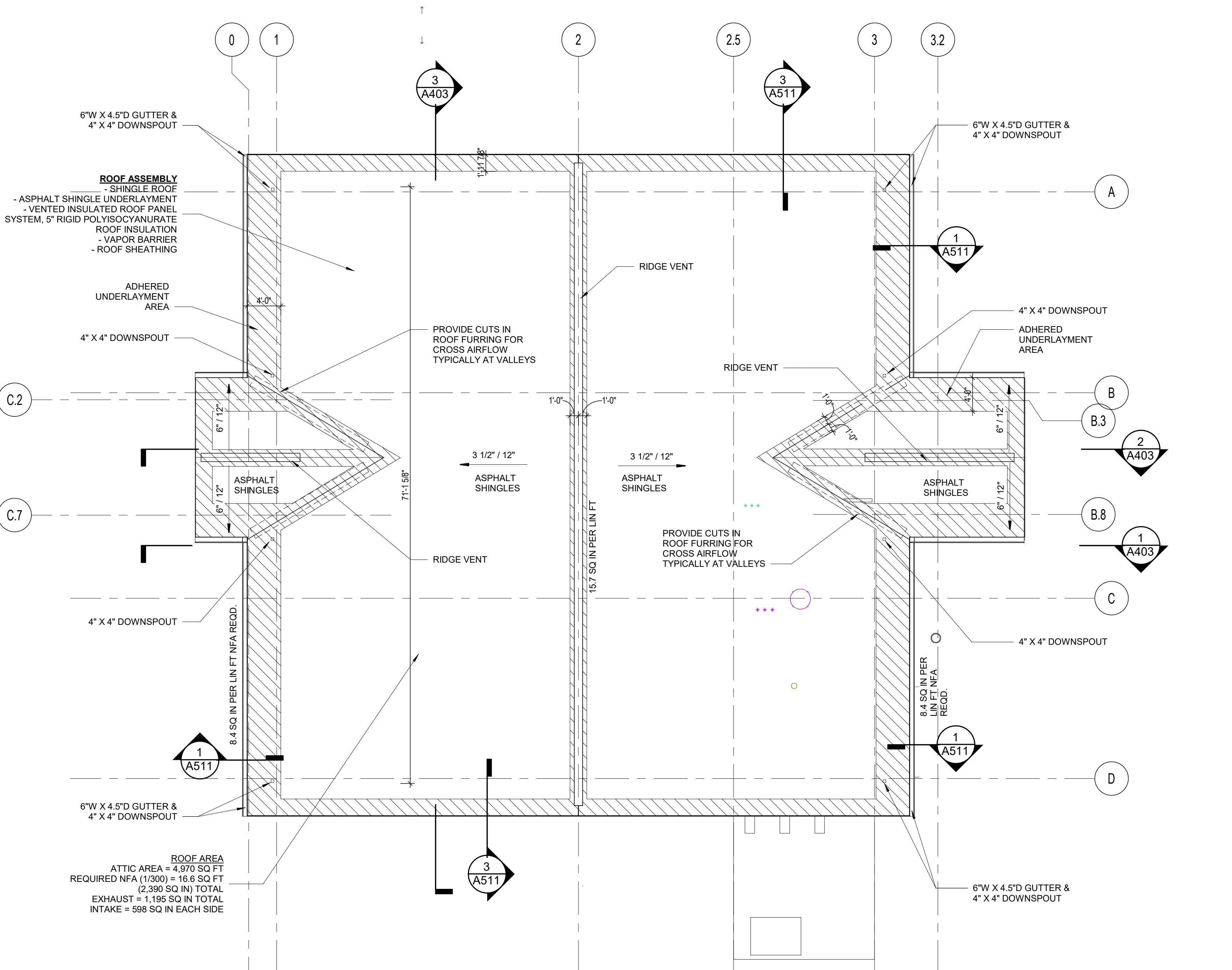
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# OOF PLAN



# 1 ROOF PLAN

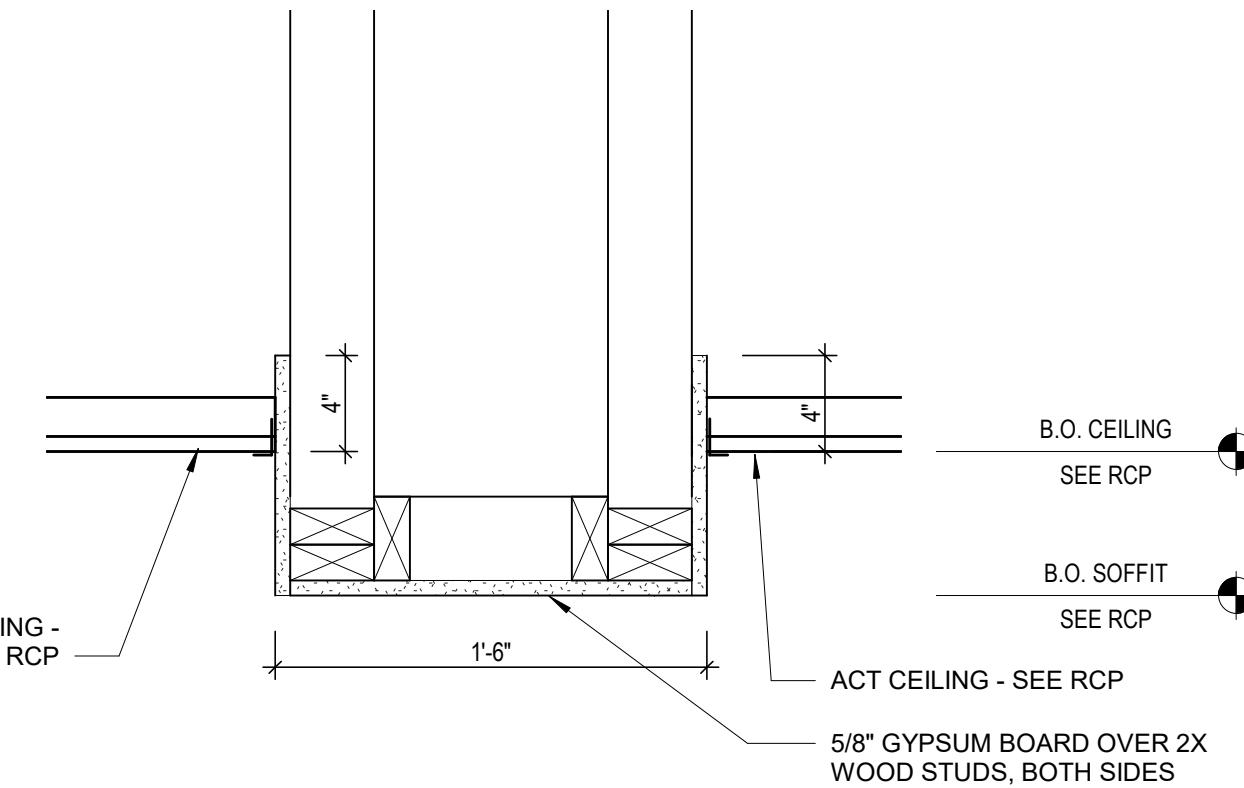
ALE: 1/8" = 1'-0"

RTH

**A102**

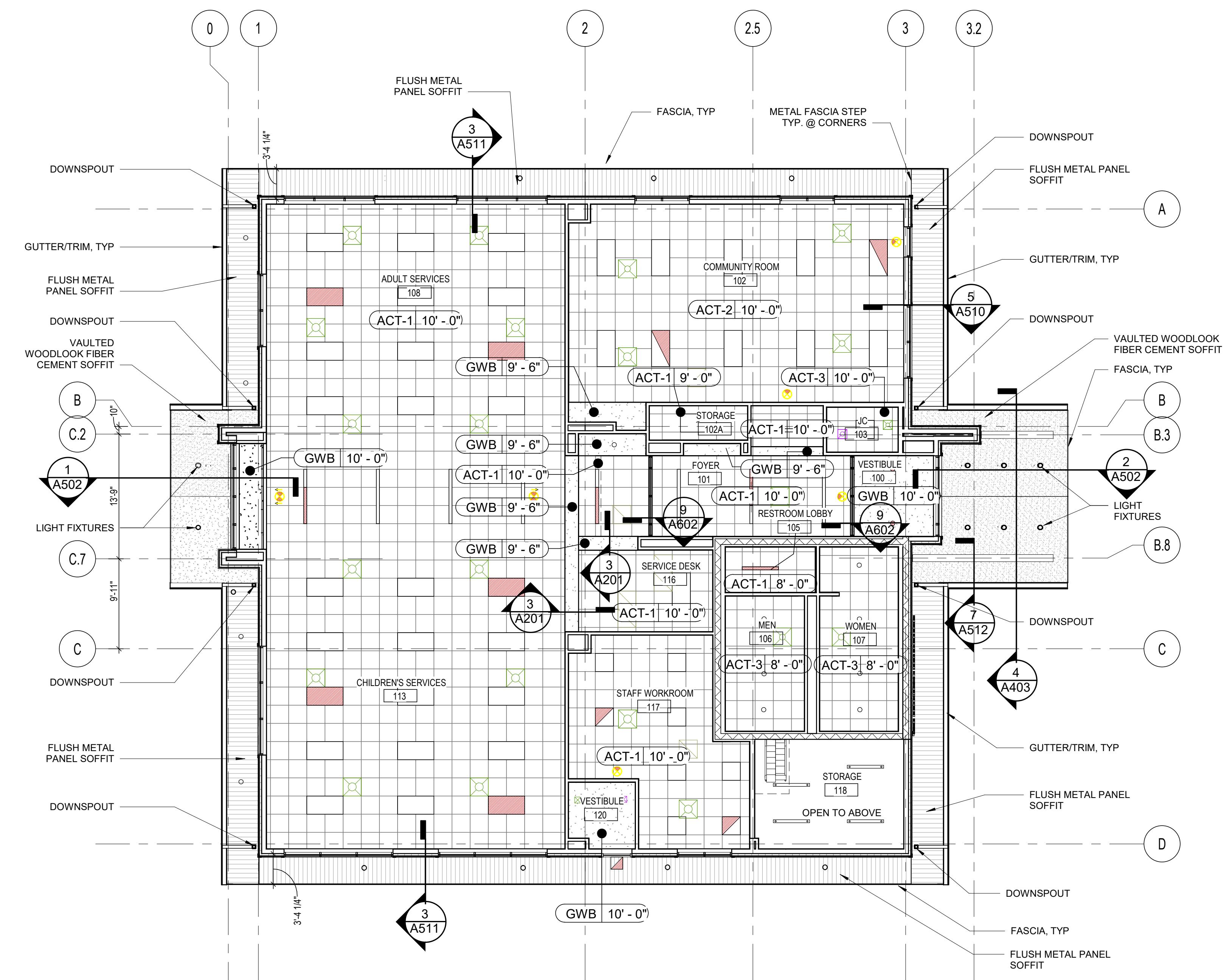
## GENERAL NOTES

#### 1. ACT-2 CEILINGS TO HAVE SOUND BLANKETS ABOVE.



## 3 SOFFIT DETAIL

SCALE: 1 1/2" = 1'-0"



**REFLECTED CEILING PLAN MAIN LEVEL**

SCALE: 1/8" = 1'

NORTH

A circular compass rose with a vertical line pointing upwards, labeled "NORTH".

**REFLECTED CEILING PLAN MEZZANINE LEVEL**

SCALE: 1/8" = 1'-0"

# A201

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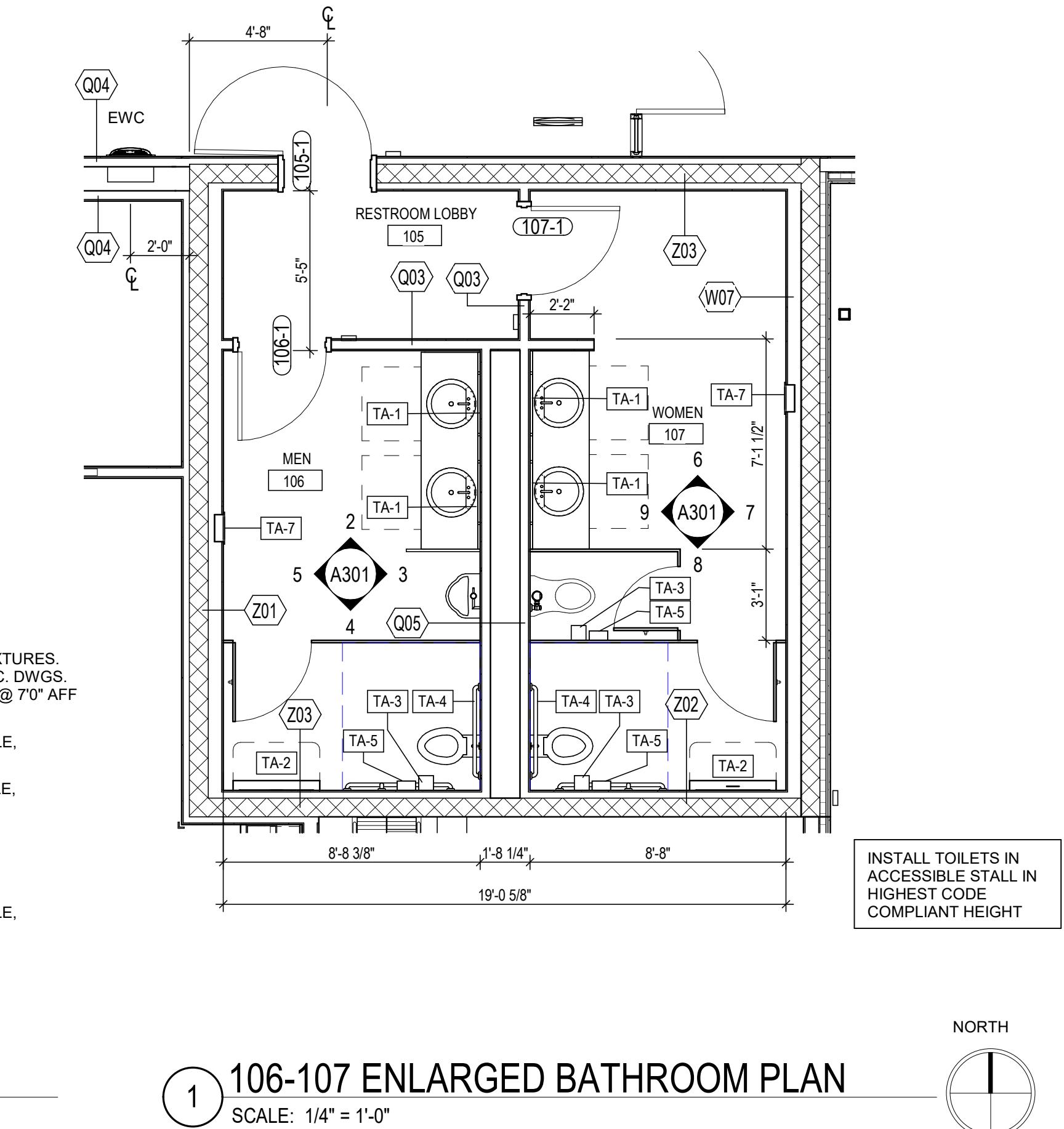
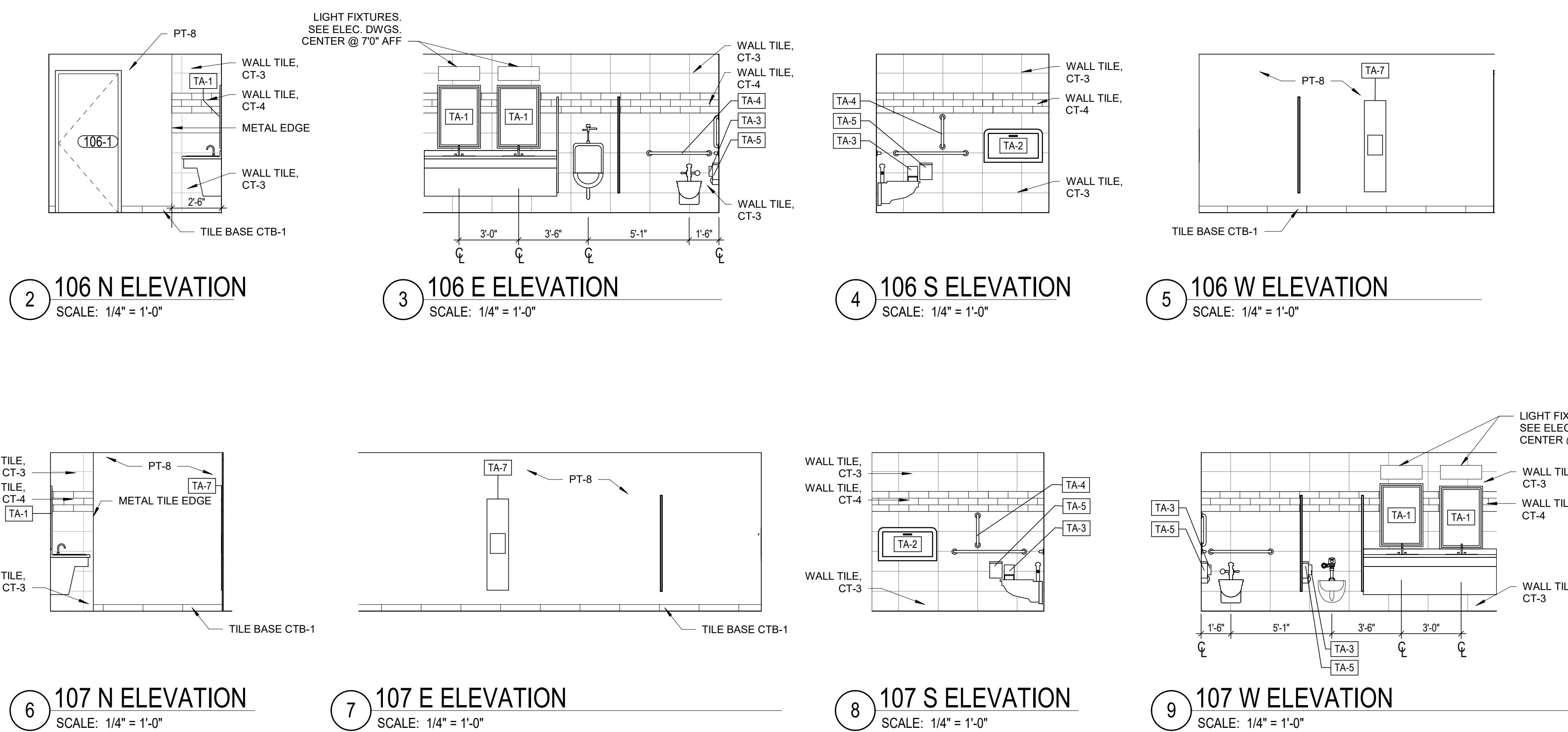
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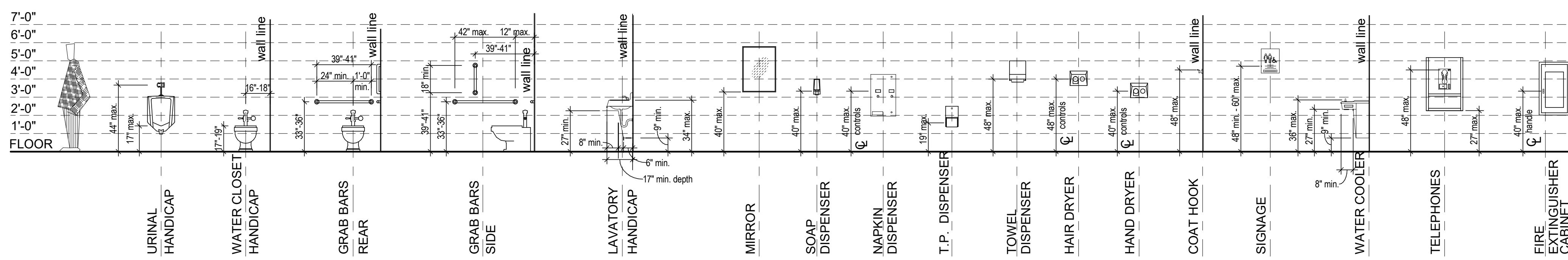
# REFLECTED CEILING PLANS


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 CHECKED BY \_\_\_\_\_  
 Author \_\_\_\_\_  
 Checker \_\_\_\_\_


TYPICAL MOUNTING HEIGHTS LEGEND (ANSI)

Type	Mark	Comments
TA-1	MIRROR, 24" WIDE	
TA-2	DIAPER-CHANGING STATION	
TA-3	TOILET TISSUE DISPENSER	
TA-4	GRAB BARS	
TA-5	SANITARY-NAPKIN DISPOSAL UNIT	
TA-6	HOOK	
TA-7	COMBINATION TOWEL DISPENSER/WASTE RECEPTACLE	
TA-10	UTILITY SHELF WITH MOP & BROOM HOLDER	

**ENLARGED  
BATHROOM PLANS**

A301

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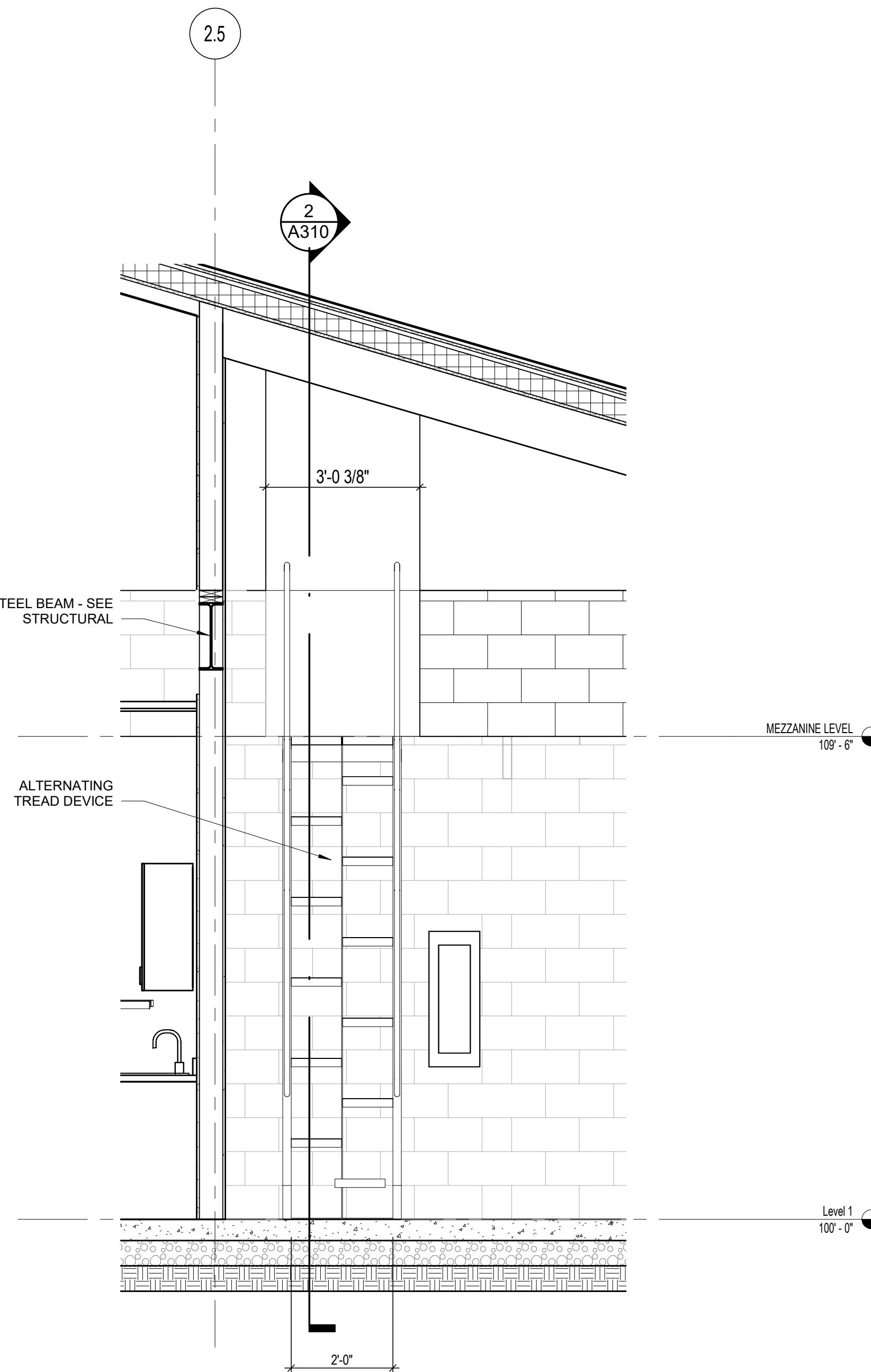
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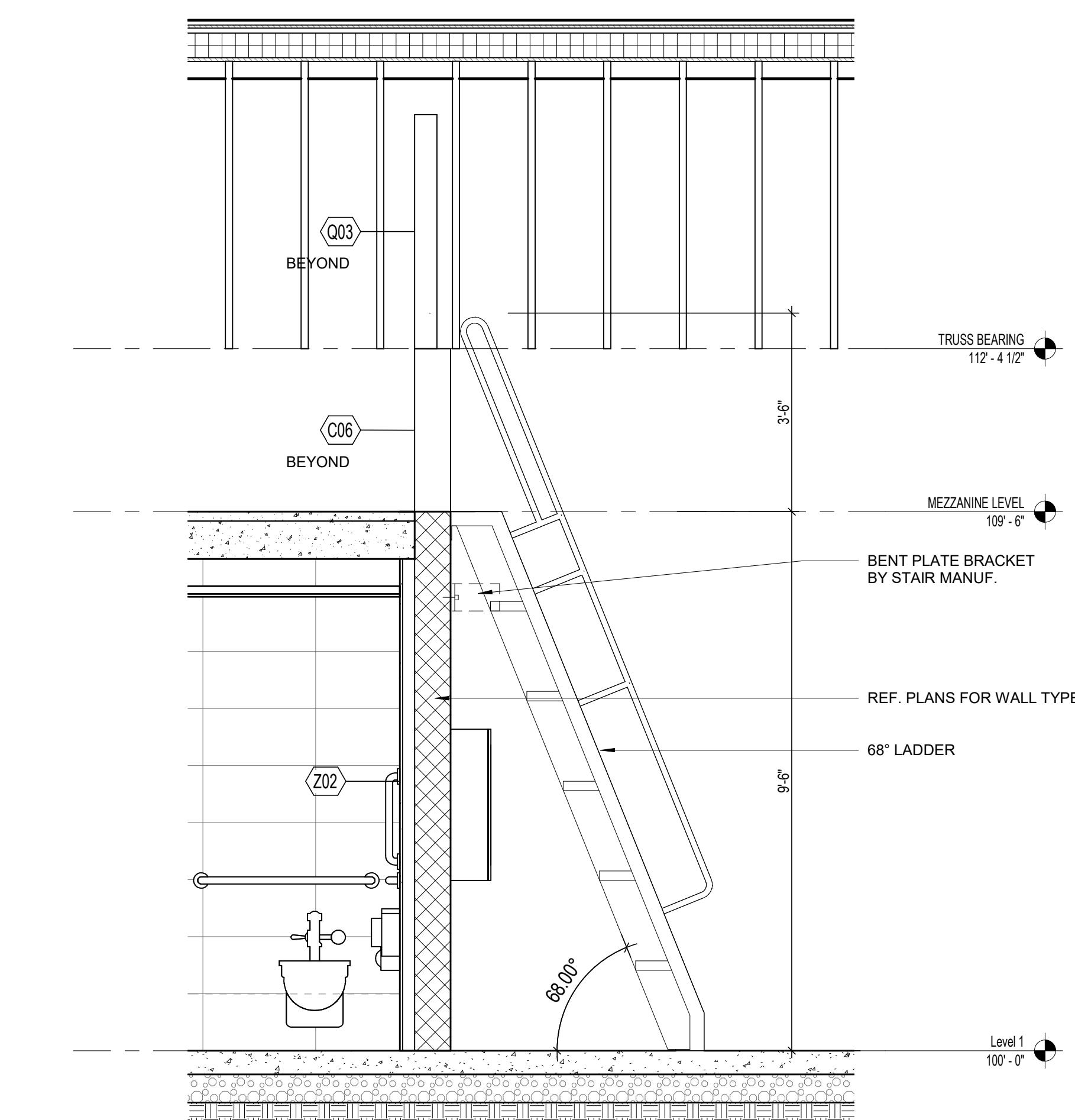
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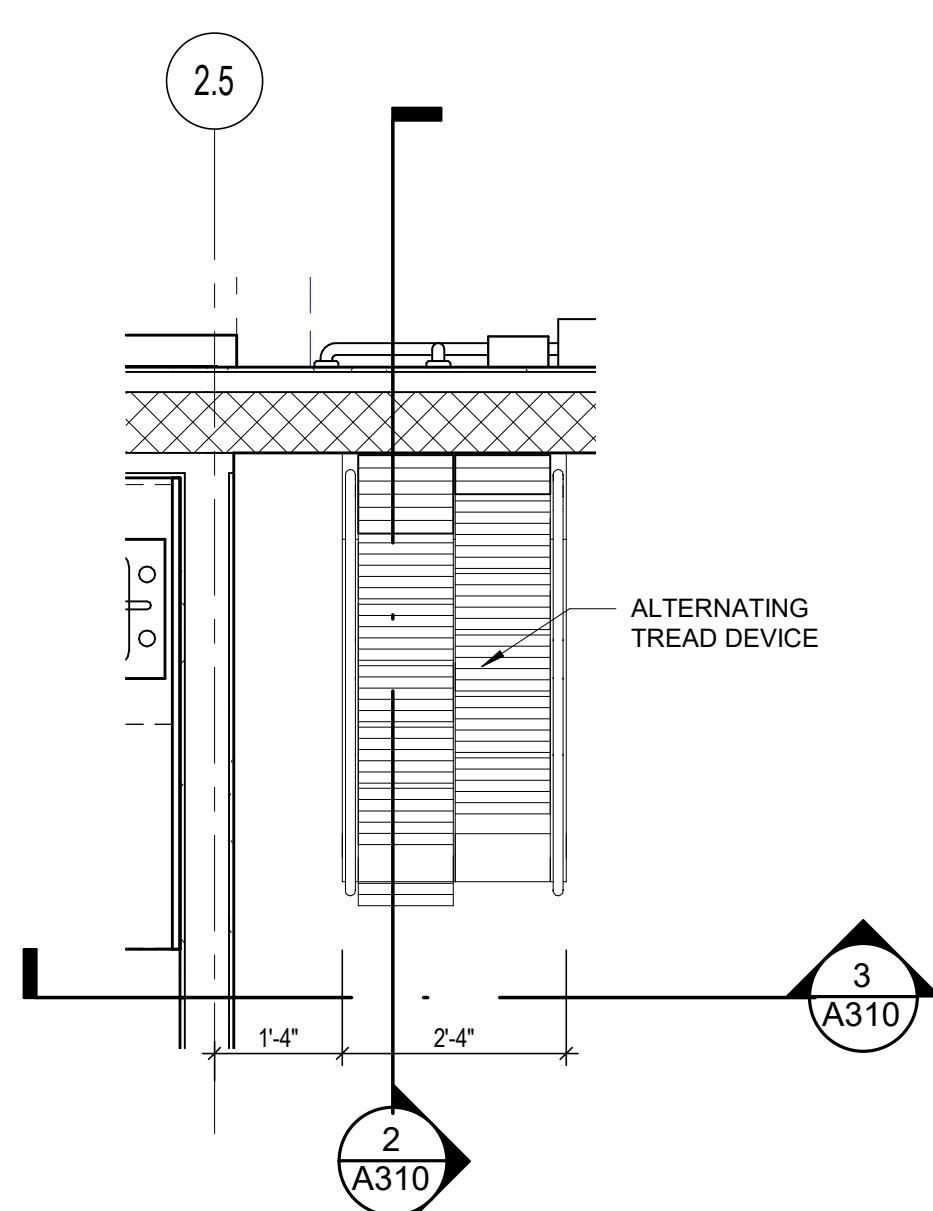
## ENLARGED PLAN AND SECTION ST-1



3 ST-1 STAR SECTION E-W  
SCALE: 1/2" = 1'-0"

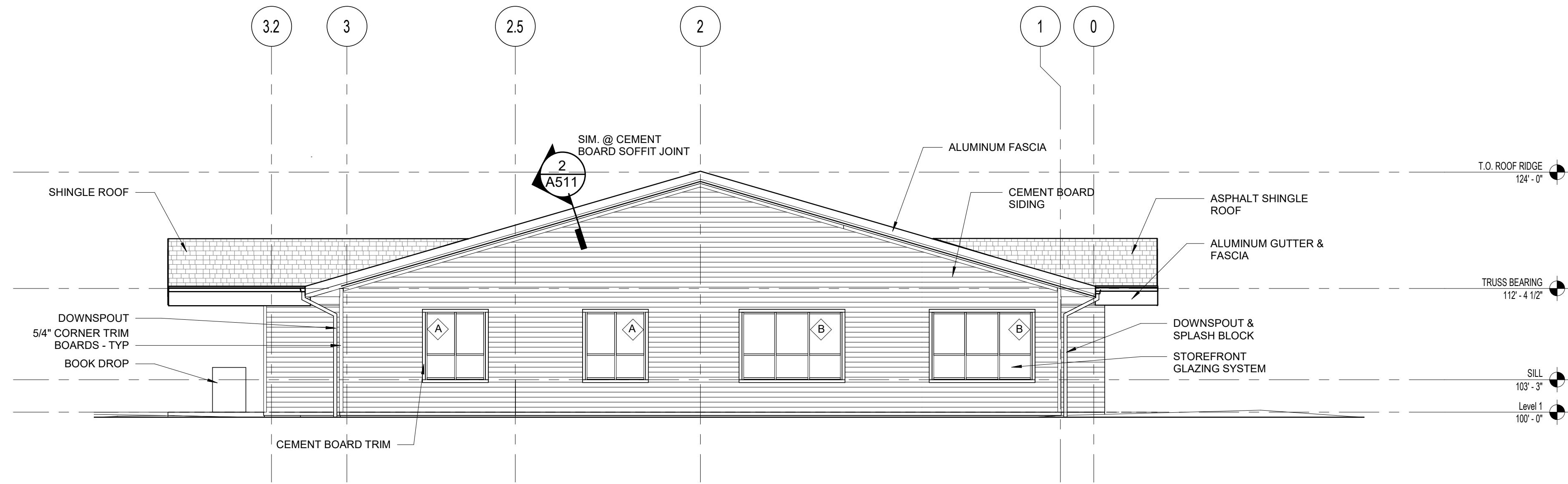


2 ST-1 STAIR SECTION N-S  
SCALE: 1/2" = 1'-0"



1 ST-1 FIRST FLOOR PLAN  
SCALE: 1/2" = 1'-0"

# A310



① NORTH ELEVATION

SCALE: 1/8" = 1'-0"

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SEAL

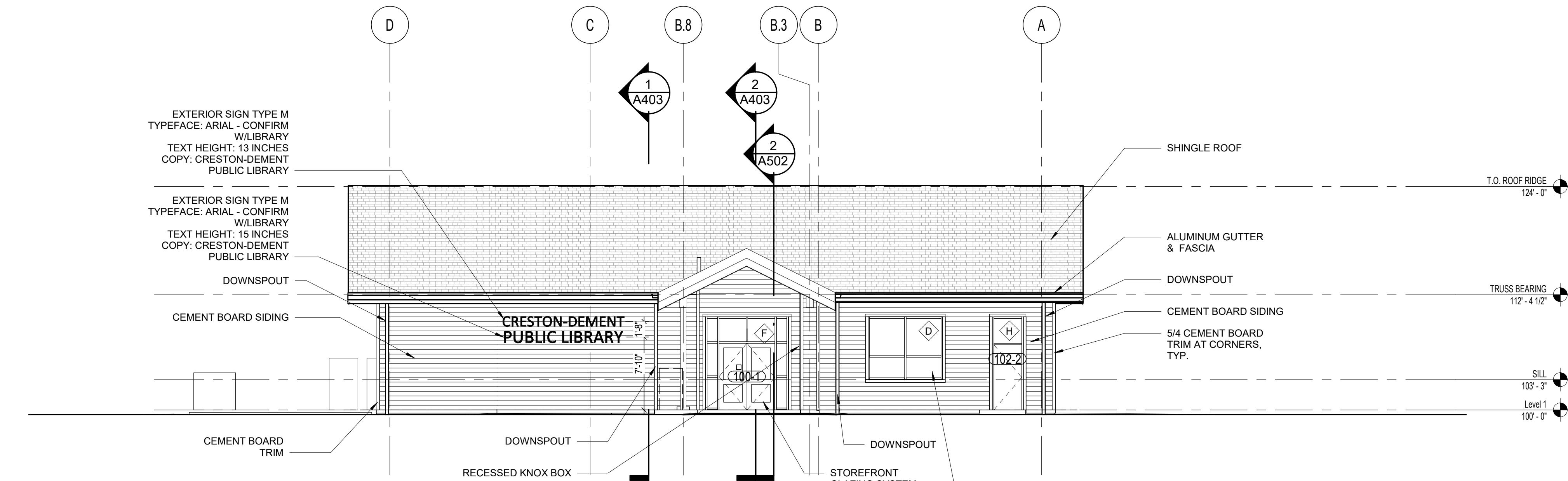
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② EAST ELEVATION

SCALE: 1/8" = 1'-0"

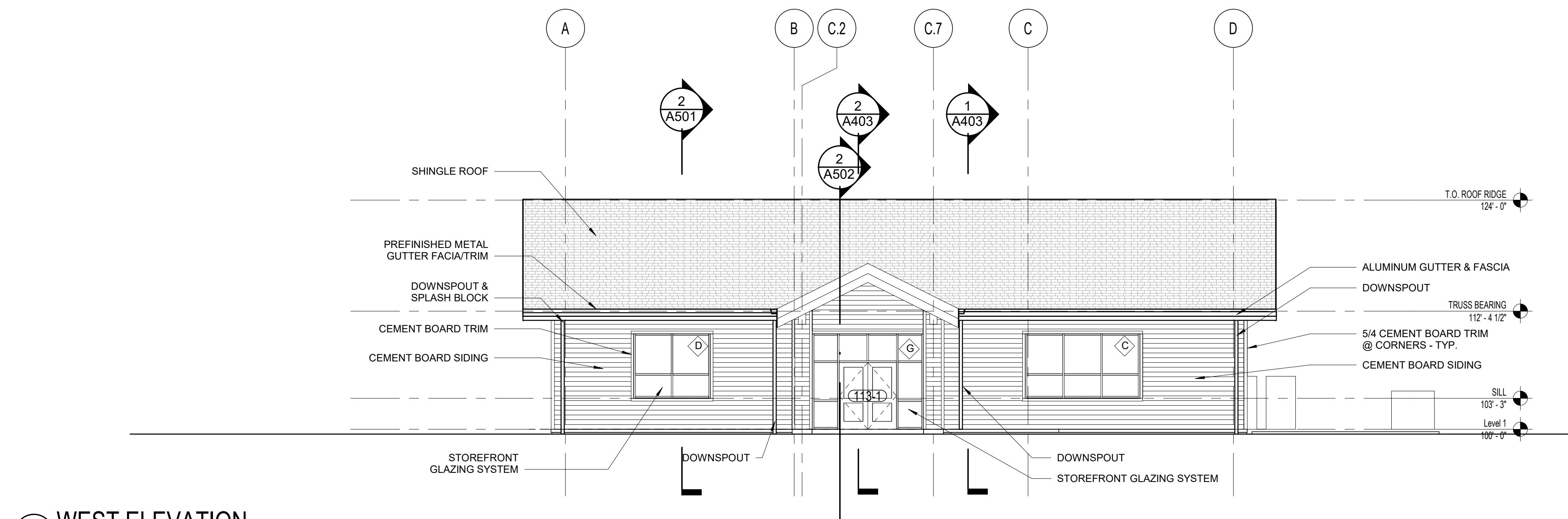
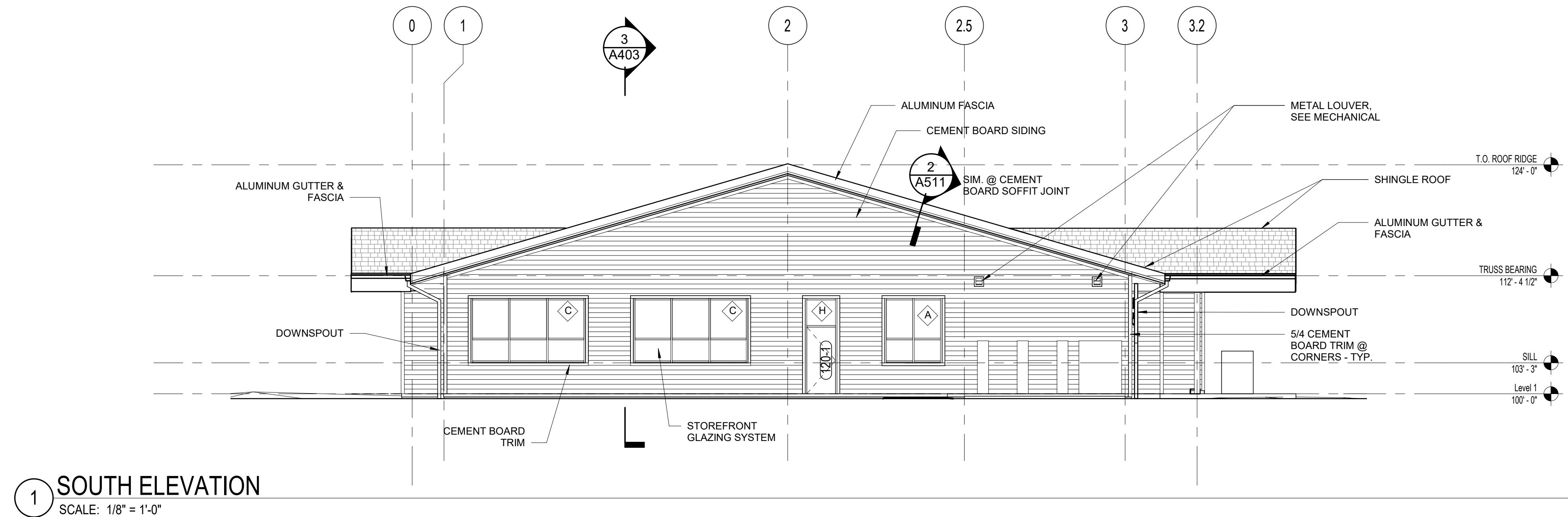
## EXTERIOR ELEVATIONS

### GENERAL NOTES: ELEVATIONS

1. ALL NON-PREFINISHED EXPOSED METAL TO BE PAINTED HPP-2
2. PROVIDE TOUCH-UP PAINT FOR PREFINISHED CEMENT BOARD AND TRIM, HPP-3.

0' 4' 8' 16' 32'  
SCALE: 1/8" = 1'-0"

A401



**GENERAL NOTES: ELEVATIONS**

1. ALL NON-PREFINISHED EXPOSED METAL TO BE PAINTED HPP-2
2. PROVIDE TOUCH-UP PAINT FOR PREFINISHED CEMENT BOARD AND TRIM, HPP-3.

0' 4' 8' 16' 32'  
SCALE: 1/8" = 1'-0"

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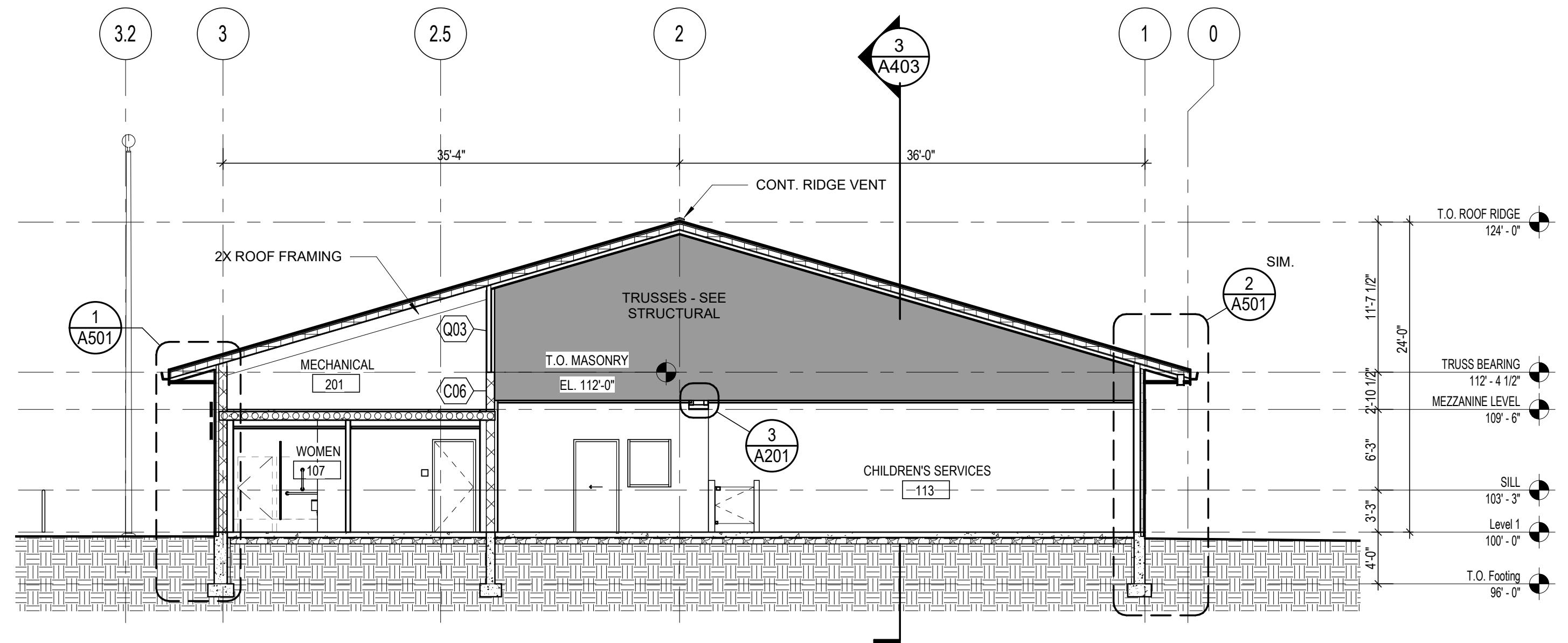
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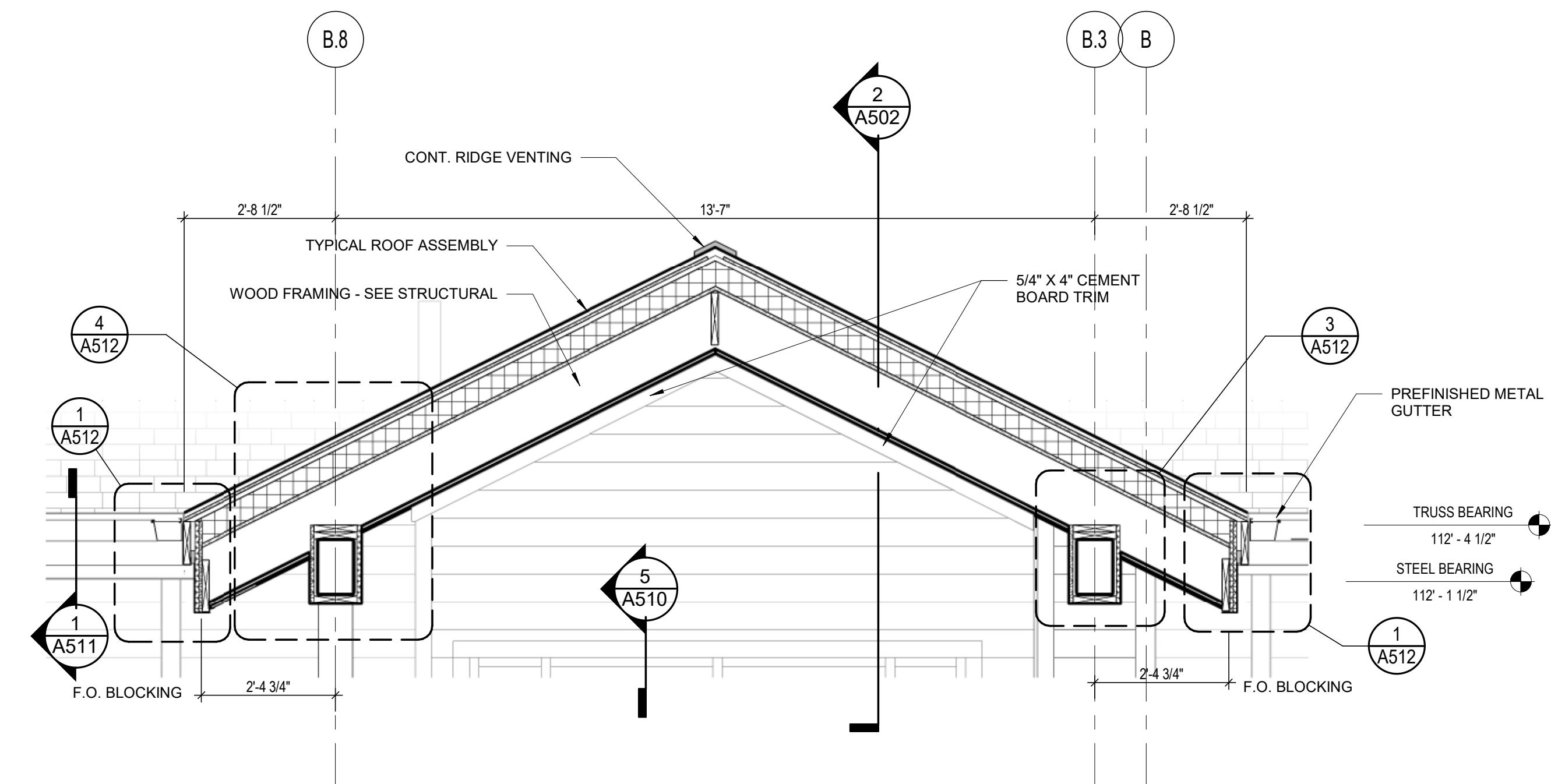
**EXTERIOR  
ELEVATIONS**

**A402**



# EAST-WEST BUILDING SECTION

SCALE: 1/8" = 1'

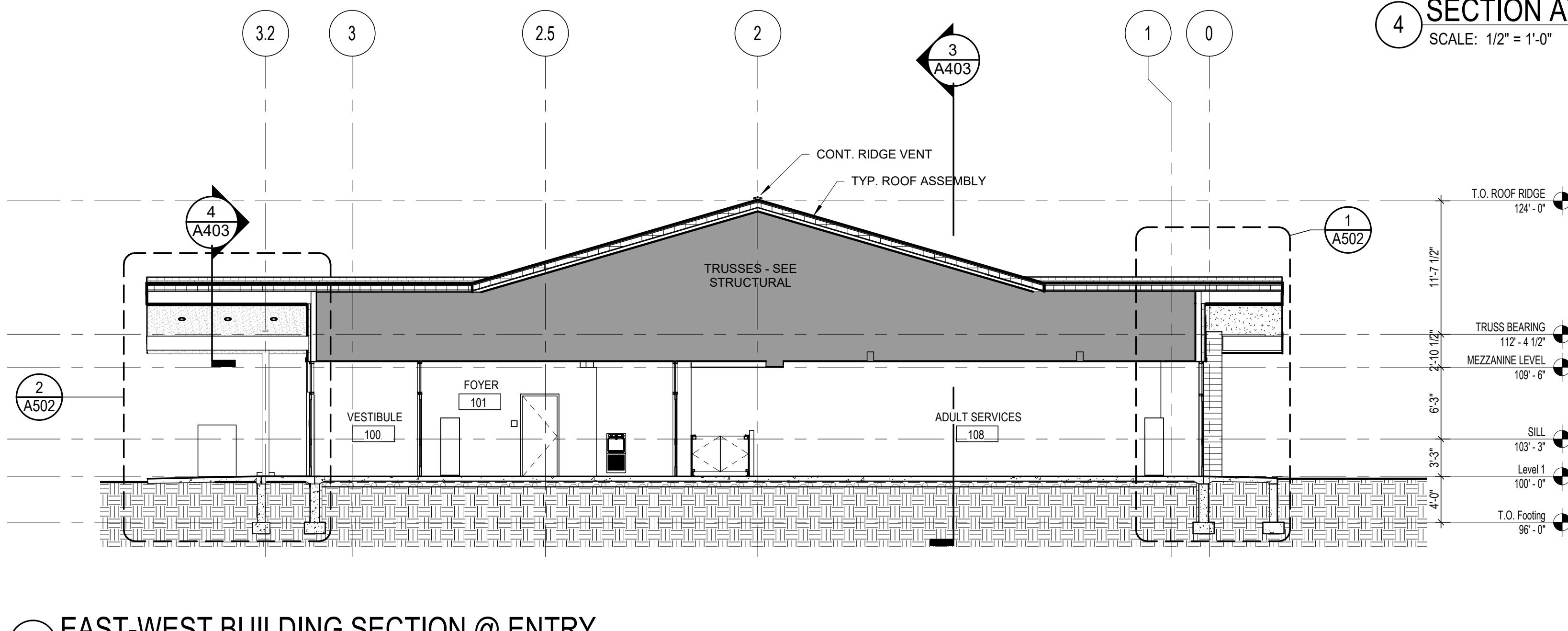


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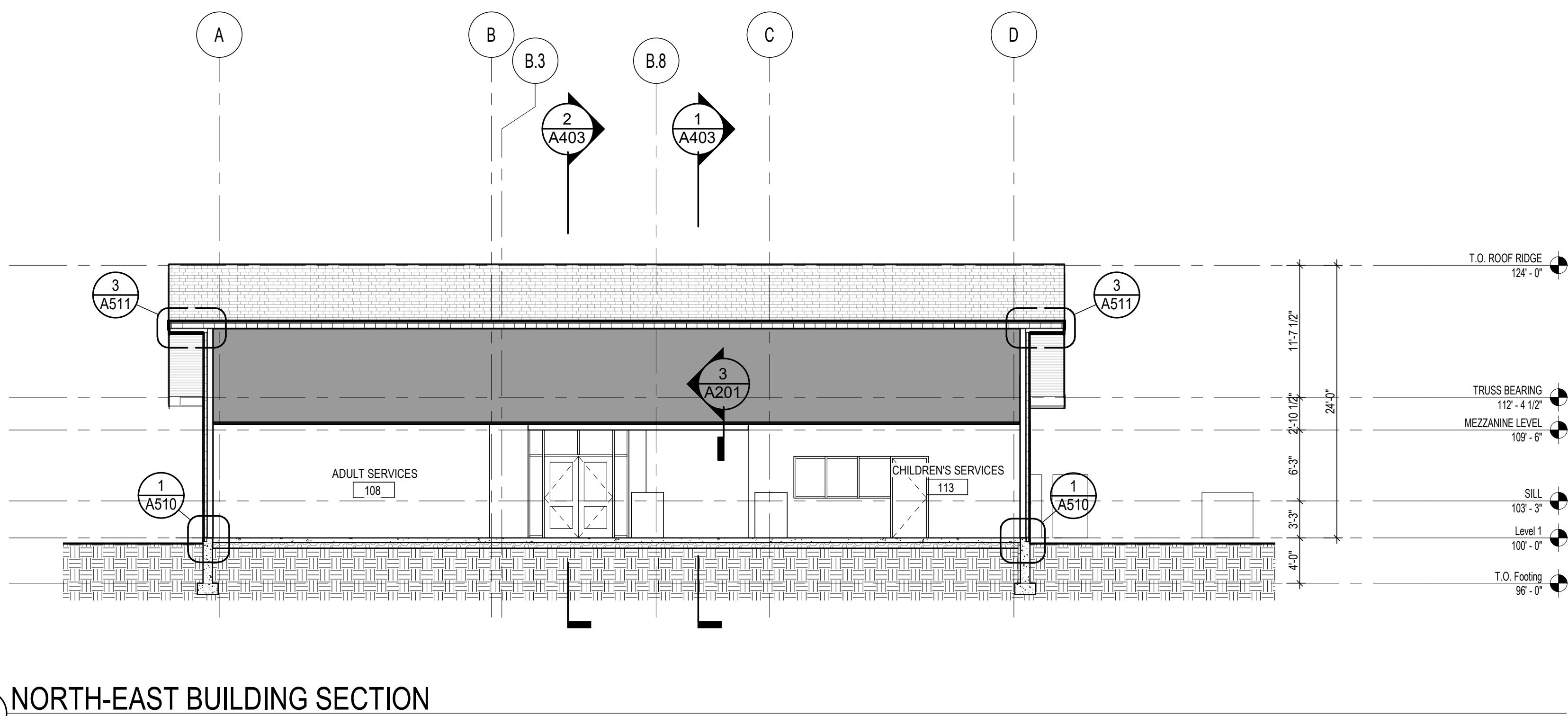
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PROJECT NUMBER 182836



② EAST-WEST BUILDING SECTION @ ENTRY

SCALE: 1/8" = 1'



# 3 NORTH-EAST BUILDING SECTION

SCALE: 1/8" = 1'

SEAL

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# BUILDING SECTIONS

**A403**

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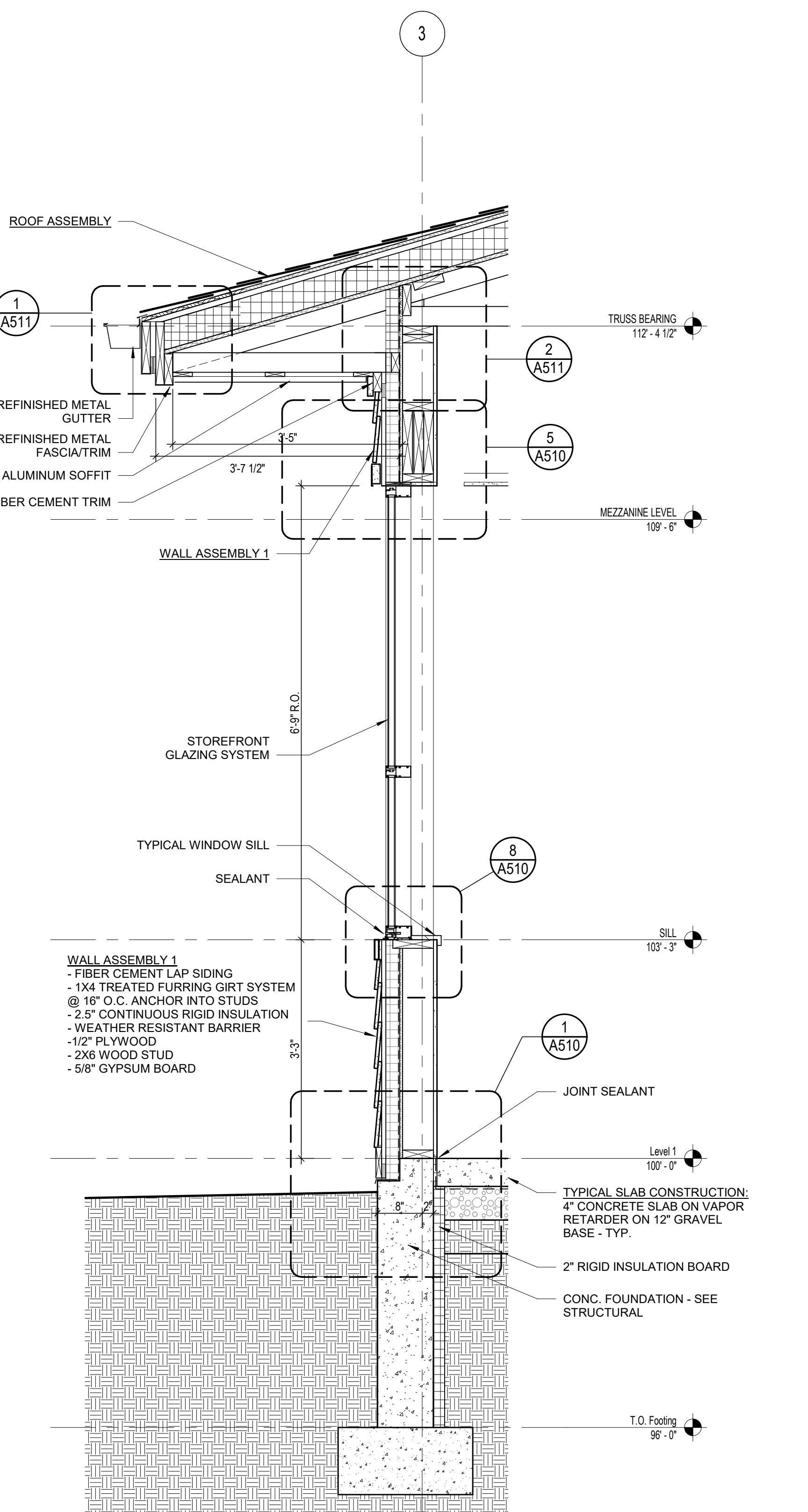
PROJECT NUMBER 182836

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**ISSUED FOR:**  
**ISSUED FOR BID** **10/31/2023**

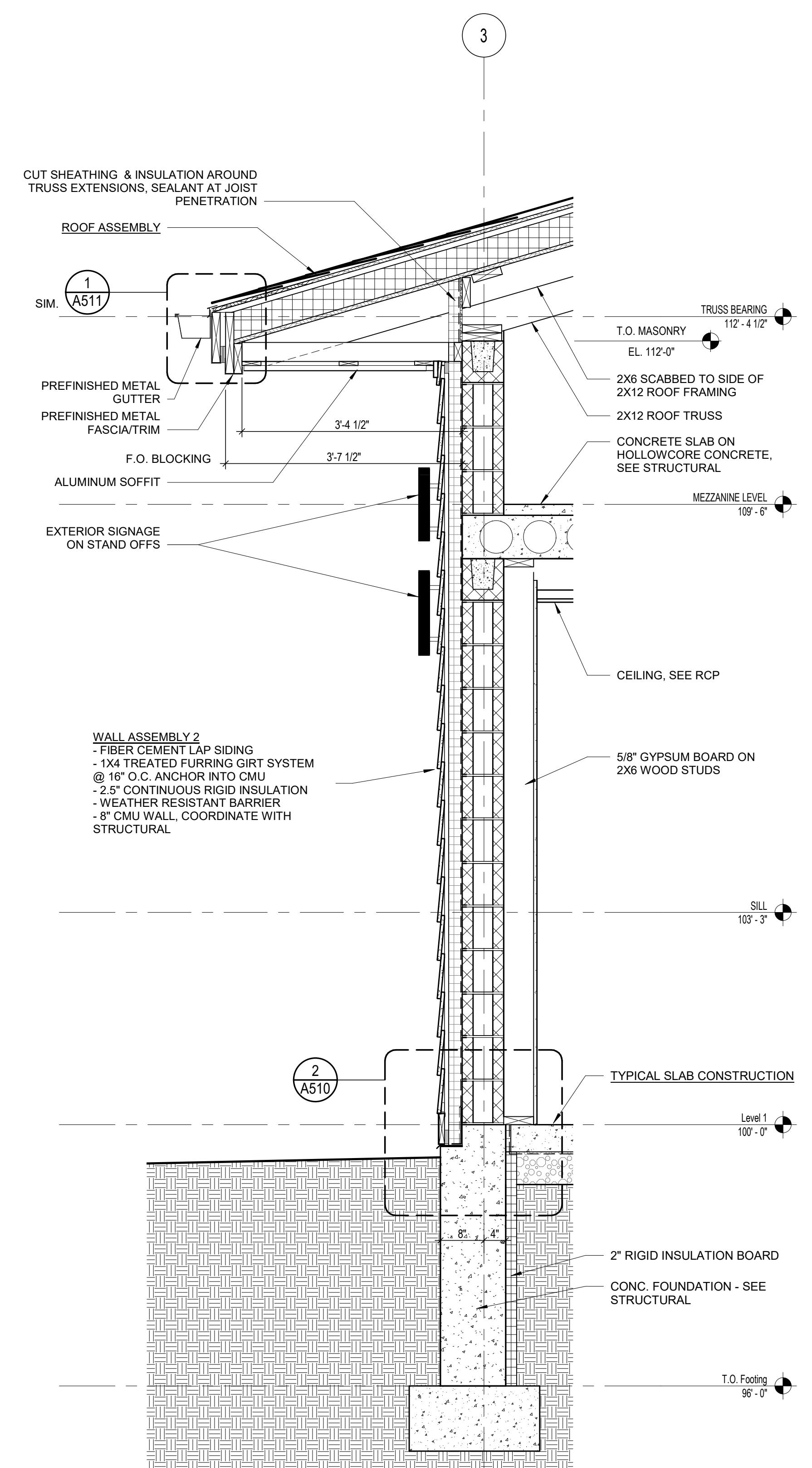
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# WALL SECTIONS



**2 WALL SECTION @ STOREFRONT**



# WALL SECTION @ CMU

**A501**

This detailed architectural cross-section diagram illustrates the construction of a building's exterior wall and roof assembly. The diagram shows a vertical cross-section from the ground level up to the roof, highlighting various components and their dimensions.

**Dimensions:**

- Total width: 10'-4"
- Height: 103'-3" (SILL) to 112'-4 1/2" (TRUSS BEARING)
- Thickness: 6" (BACK OF BLOCKING), 5" (CEMENT BOARD SOFFIT ON 1X FURRING), 3'-11" (WALL ASSEMBLY 1), 3'-10" (STOREFRONT), etc.
- Vertical levels: T.O. Footing (96'-0"), Level 1 (100'-0"), SILL (103'-3"), TRUSS BEARING (112'-4 1/2"), ROOF (various heights).

**Key Components and Labels:**

- Roof Assembly:** TYPICAL ROOF ASSEMBLY, BACK OF BLOCKING, 2 A512 (truss bearing), 2 A511 (SIM.), 3.2 (circle).
- Wall Assembly:** WALL ASSEMBLY 1, CEMENT BOARD SOFFIT ON 1X FURRING, BRAKE METAL ENCLOSURE AROUND BEAM, CEMENT BOARD PANEL ENCLOSURE 4 SIDES, EXTRUDED ALUMINUM TRIM @ ALL OUTSIDE CORNERS - BASIS OF DESIGN "FRY REGLET -OC1", 7 A512 (book drop), 5 A510 (SIM.), 6 A510 (SIM.), 3.2 (circle).
- Foundation:** T.O. Footing, 2" PCC ST.
- Vertical Labels:** EXTEND IN UP TO BOT, 2X4 NAILED ON SHEATH SLOPE OF, F.O. SHEATHING, ROOF PROPS SHE.
- Annotations:** 1/4" / 12", 3'-7", 3"-6", 10'-4", 6", 5", 3'-11", 3'-10", 2 1/2", 4 1/2", 103'-3", 112'-4 1/2", 100'-0", 96'-0", 4 A403 (top circle), 3.2 (right circle).

**SECTION AT EAST ENTRY**

This detailed architectural cross-section diagram illustrates the construction of a building's exterior wall, roof, and foundation. The diagram is labeled with various components and dimensions, providing a comprehensive view of the building's structural elements.

**Typical Roof Assembly:**

- EXTEND INSULATION AND BARRIER UP TO BOTTOM OF DECK
- 2X4 NAILER FOR FURRING ON SHEATHING TO FOLLOW SLOPE OF ROOF
- OVERFRAMING - SEE STRUCTURAL
- END BARRIER BACK
- FURRING FOLLOW
- WOOD STUDS & SHEATHING - SEE STRUCTURAL
- EXTERIOR WALL BEYOND
- WOOD STUDS & SHEATHING - SEE STRUCTURAL
- ACT CEILING - SEE RCP
- GYPSUM CEILING - SEE RCP
- B.O. STUD
- SLOPED TRIM BOARD BEYOND
- WALL ASSEMBLY 1
- TRUSS BEARING 112'-4 1/2"
- END OF STEEL TUBE - SEE STRUCTURAL
- METAL END CAP ON TUBE ENCLOSURE
- CEMENT BOARD SOFFIT
- BRAKE METAL ENCLOSURE AROUND BEAM
- STOREFRONT GLAZING SYSTEM

**Foundation and Slab Construction:**

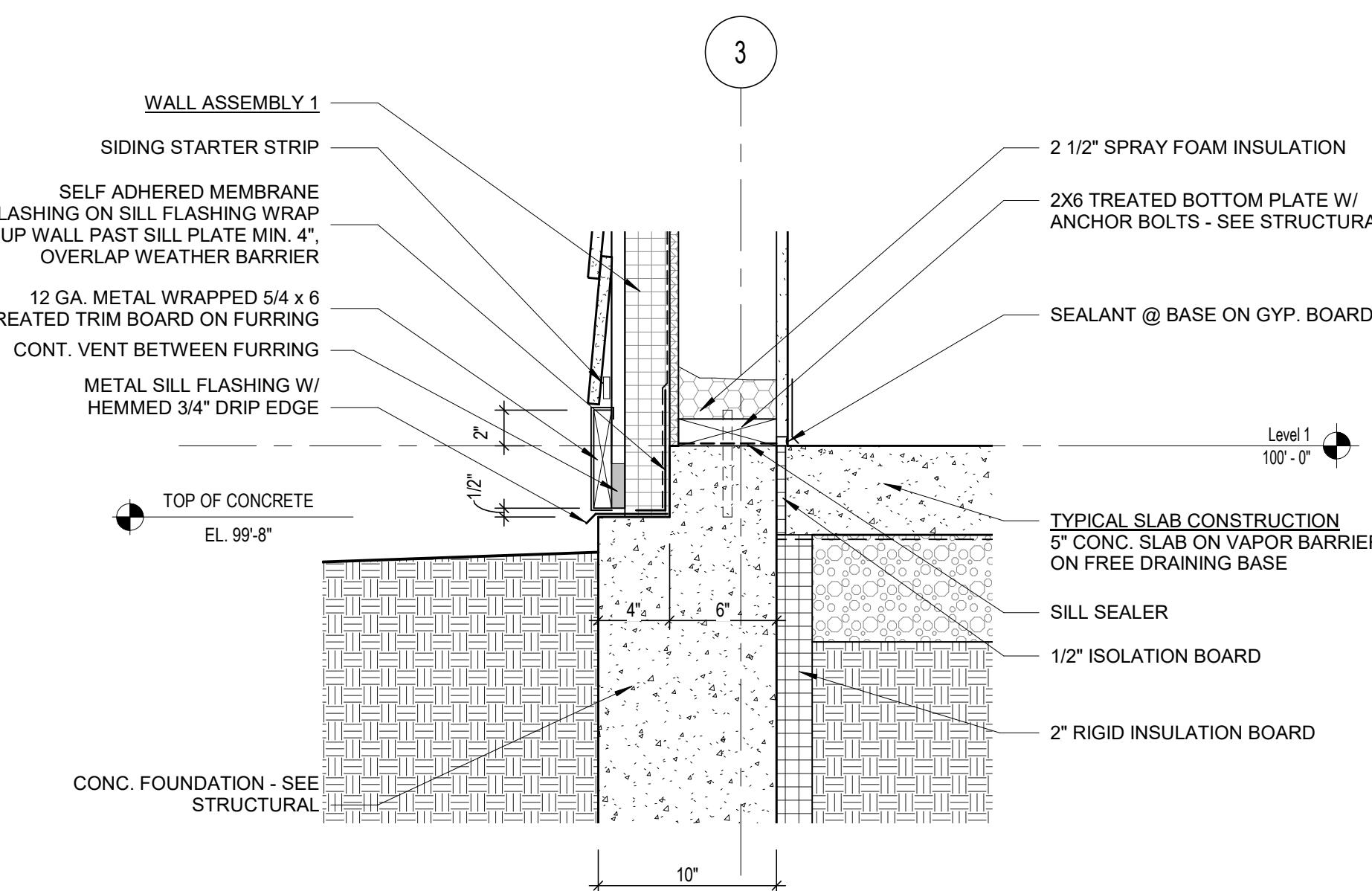
- TYPICAL SLAB CONSTRUCTION
- CONCRETE STOOP - SLOPED
- 1/4" / 12"
- Level 1 100'-0"
- STOOP FOUNDATION - SEE STRUCTURAL
- 2" RIGID INSULATION
- CONCRETE FOUNDATION - SEE STRUCTURAL
- T.O. Footing 96'-0"

**Dimensions and Labels:**

- 1
- 0
- 3'-4"
- 6'-4"
- 6"
- 2 A512 SIM
- 2 A511 SIM.
- 5 A510
- 6 A510

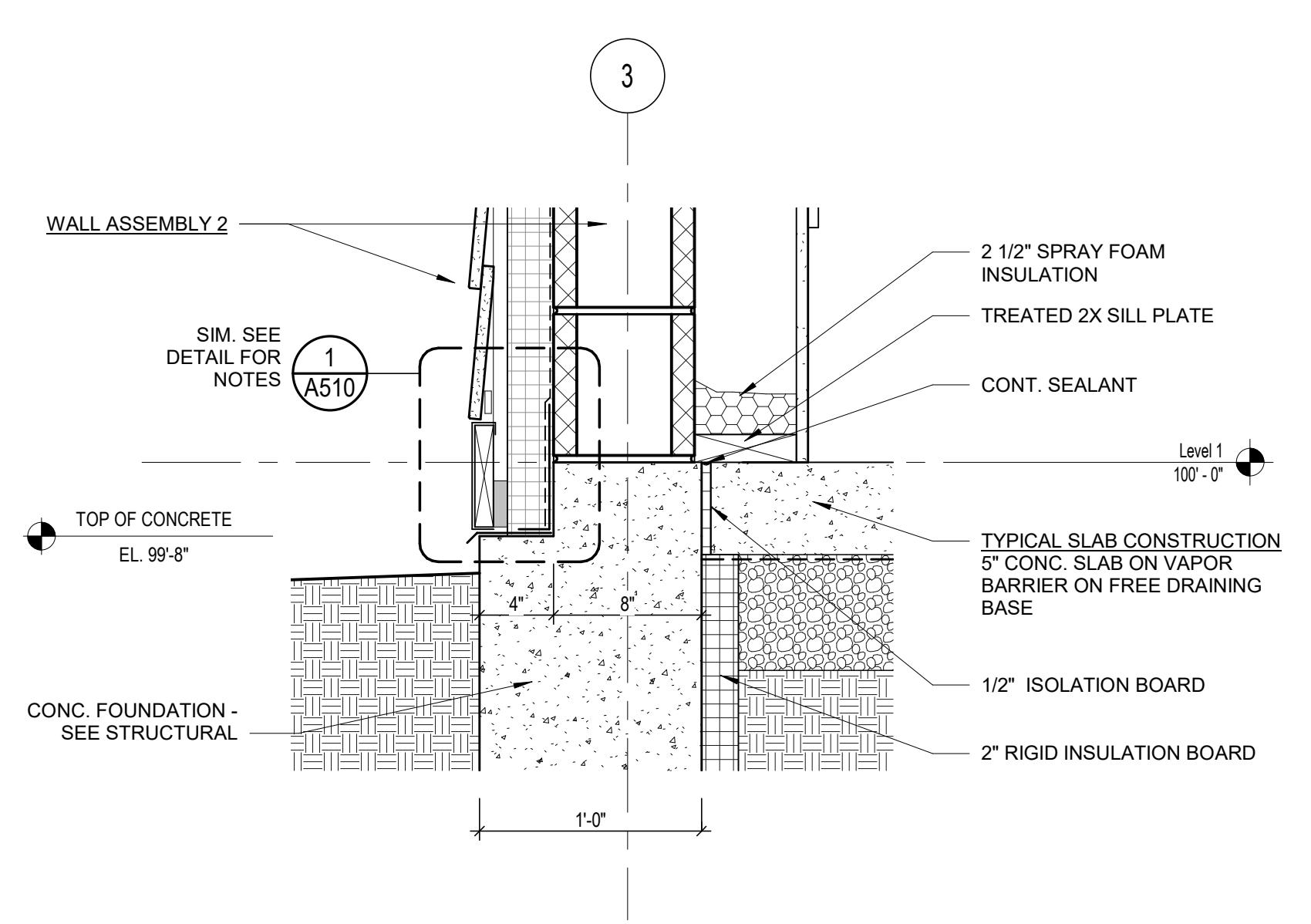
**SECTION AT WEST ENTRY**

# A502



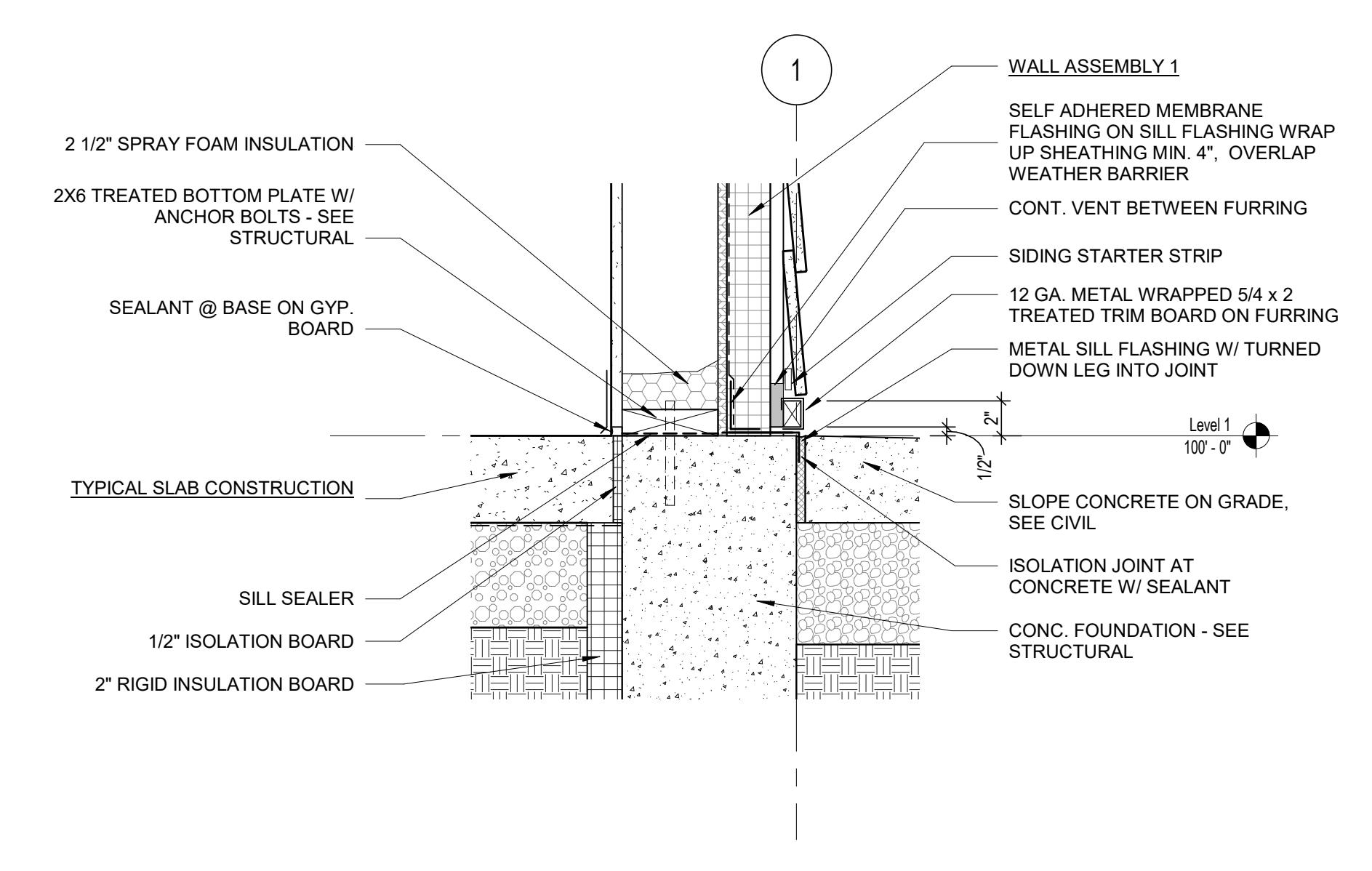
1 BASE DETAIL @ CEMENT BOARD LEDGE

SCALE: 1 1/2" = 1'-0"



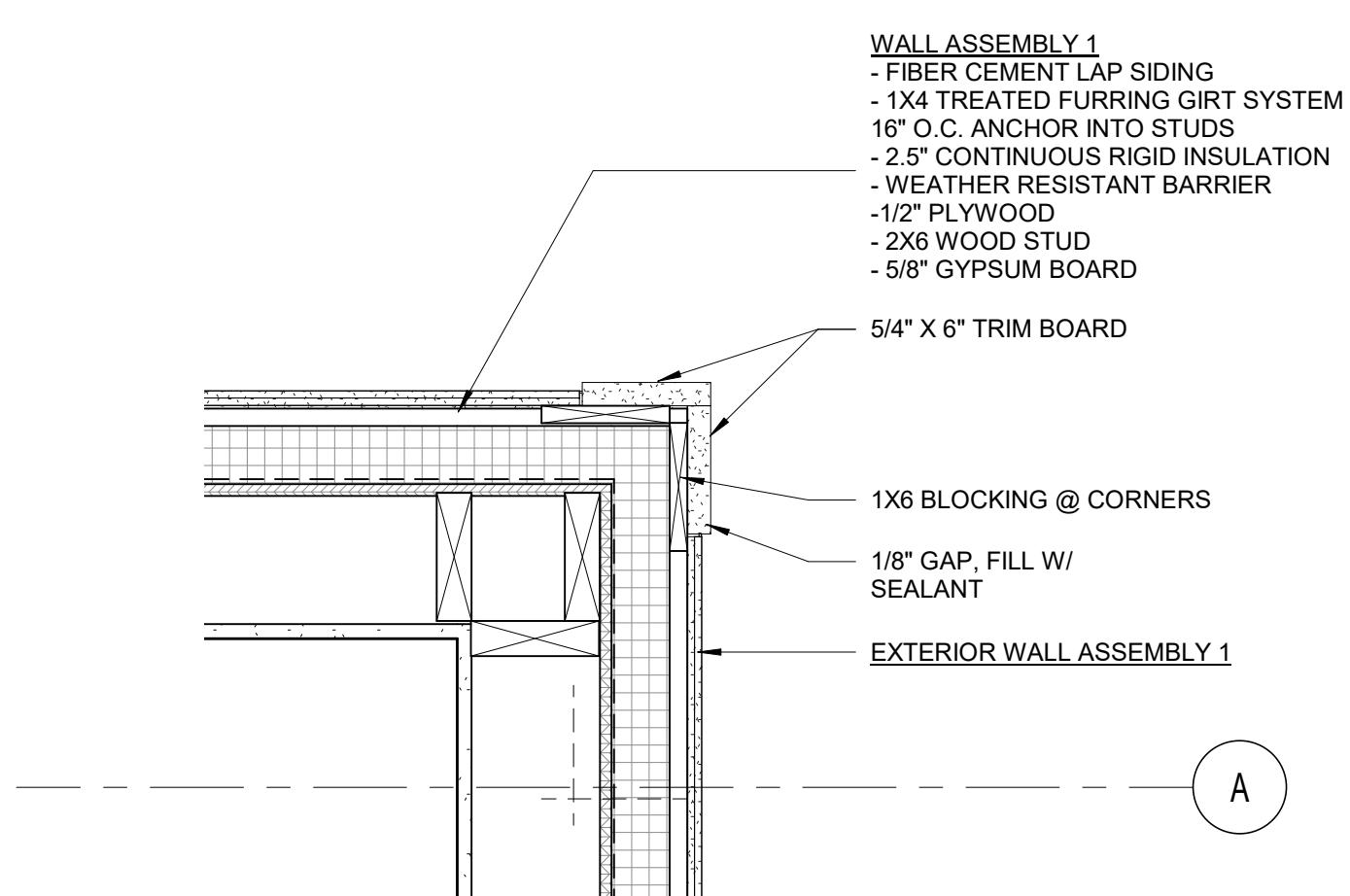
2 BASE DETAIL @ STONE LEDGE CMU

SCALE: 1 1/2" = 1'-0"



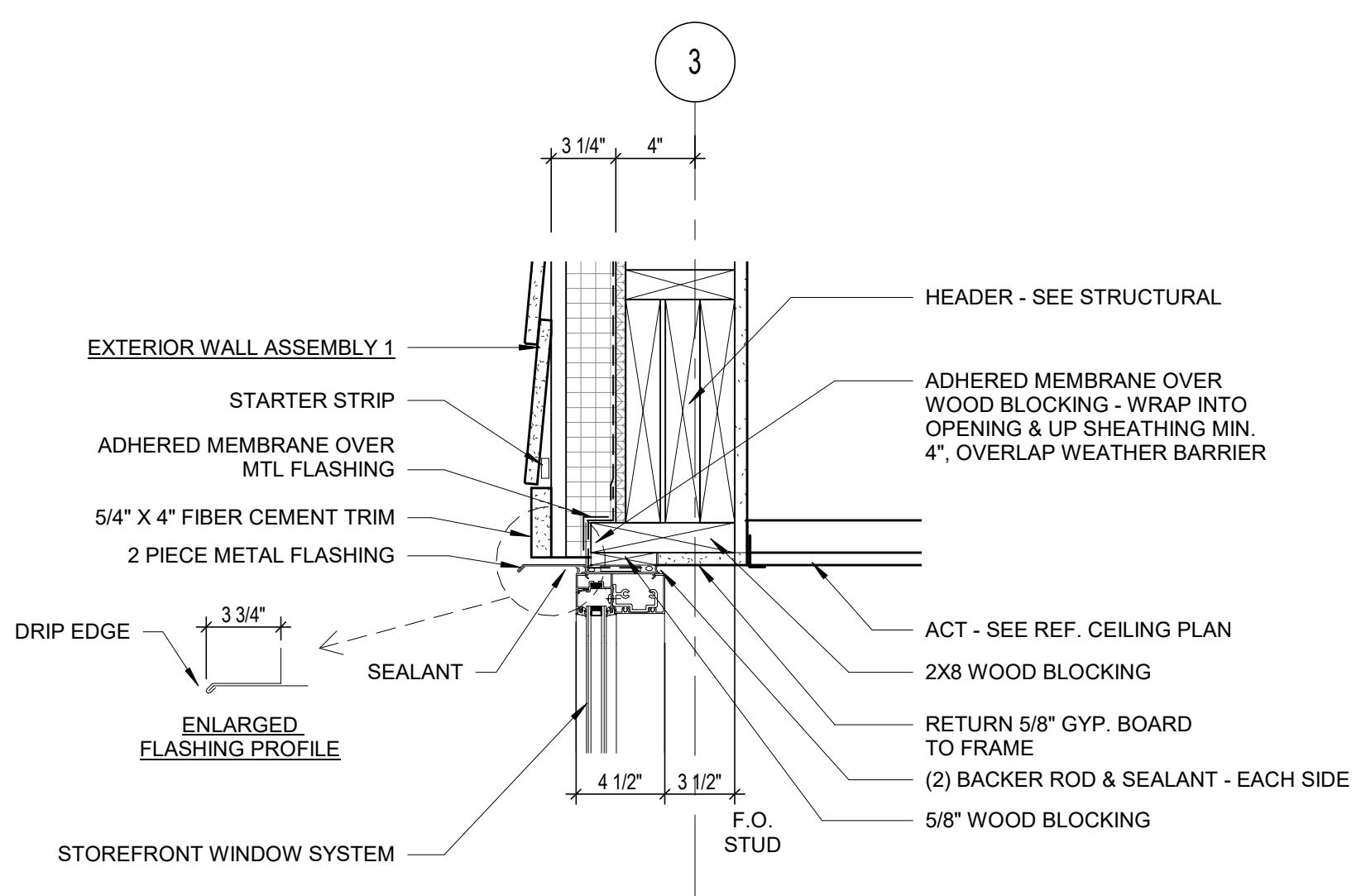
3 BASE DETAIL AT CONCRETE SIDEWALKS

SCALE: 1 1/2" = 1'-0"



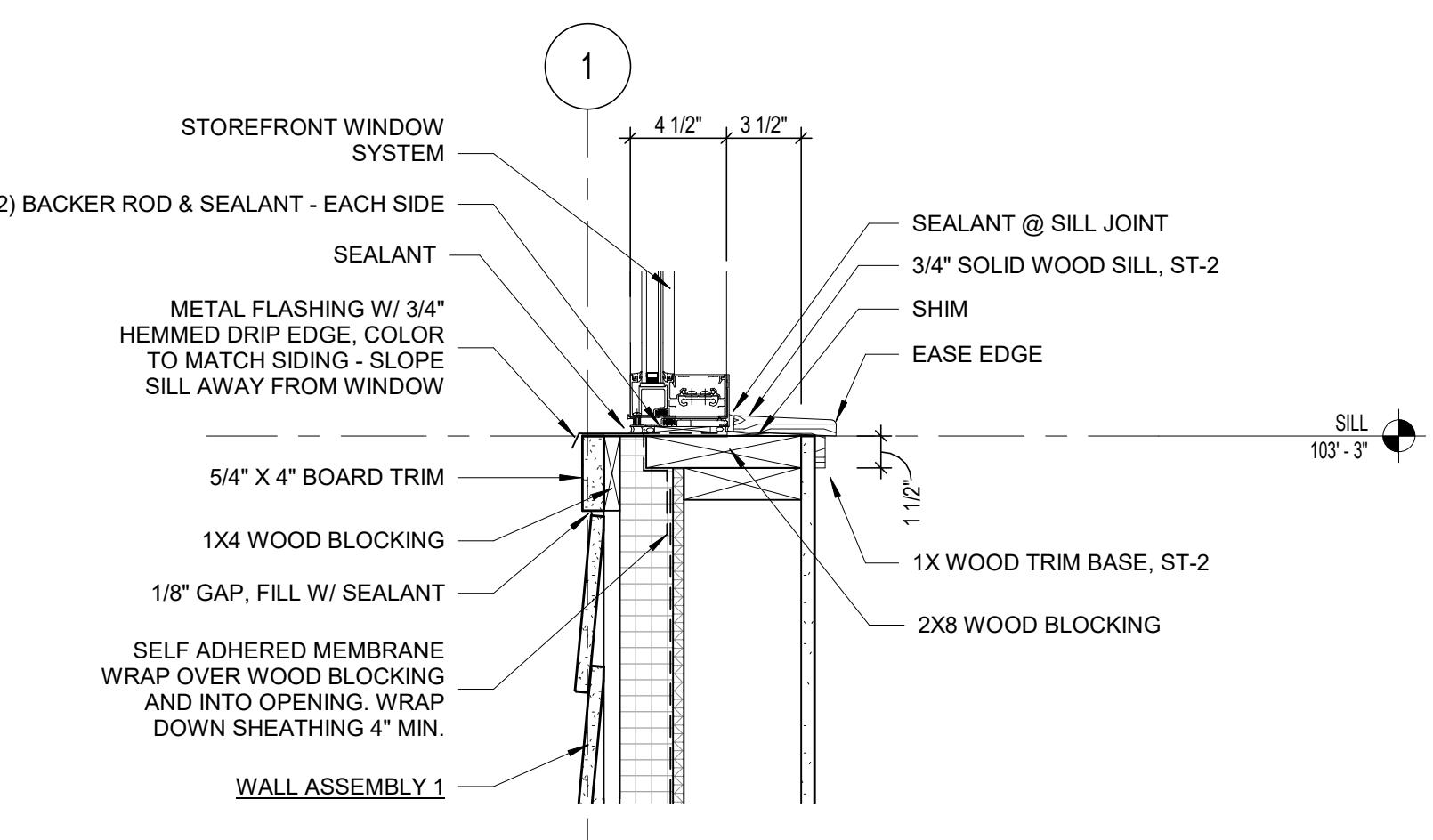
4 TYP. OUTSIDE CORNER PLAN DETAIL @ SIDING

SCALE: 1 1/2" = 1'-0"



5 HEAD DETAIL @ STOREFRONT - SIDING

SCALE: 1 1/2" = 1'-0"

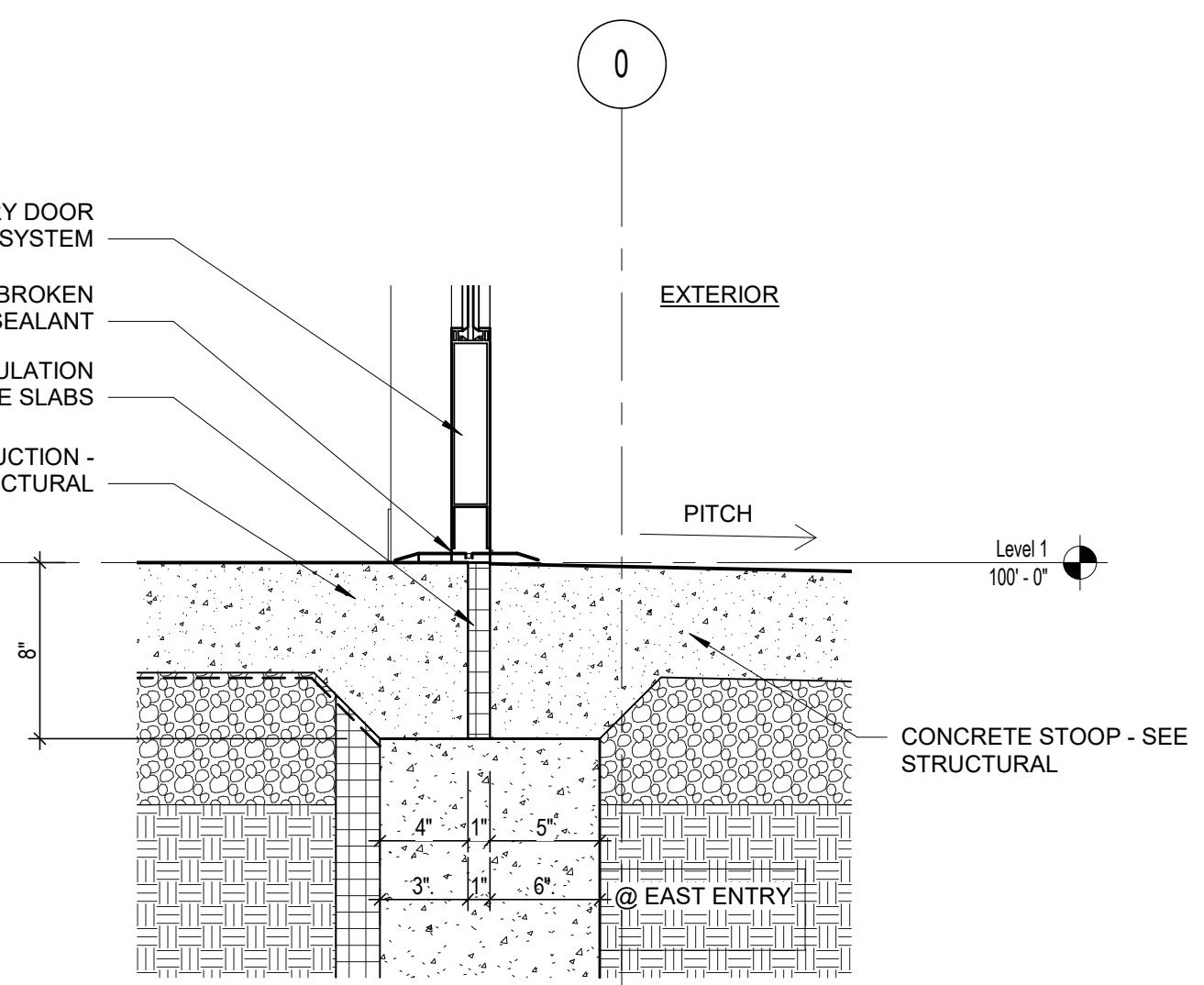


7 INTERIOR CORNER PLAN DETAIL @ SIDING

SCALE: 1 1/2" = 1'-0"

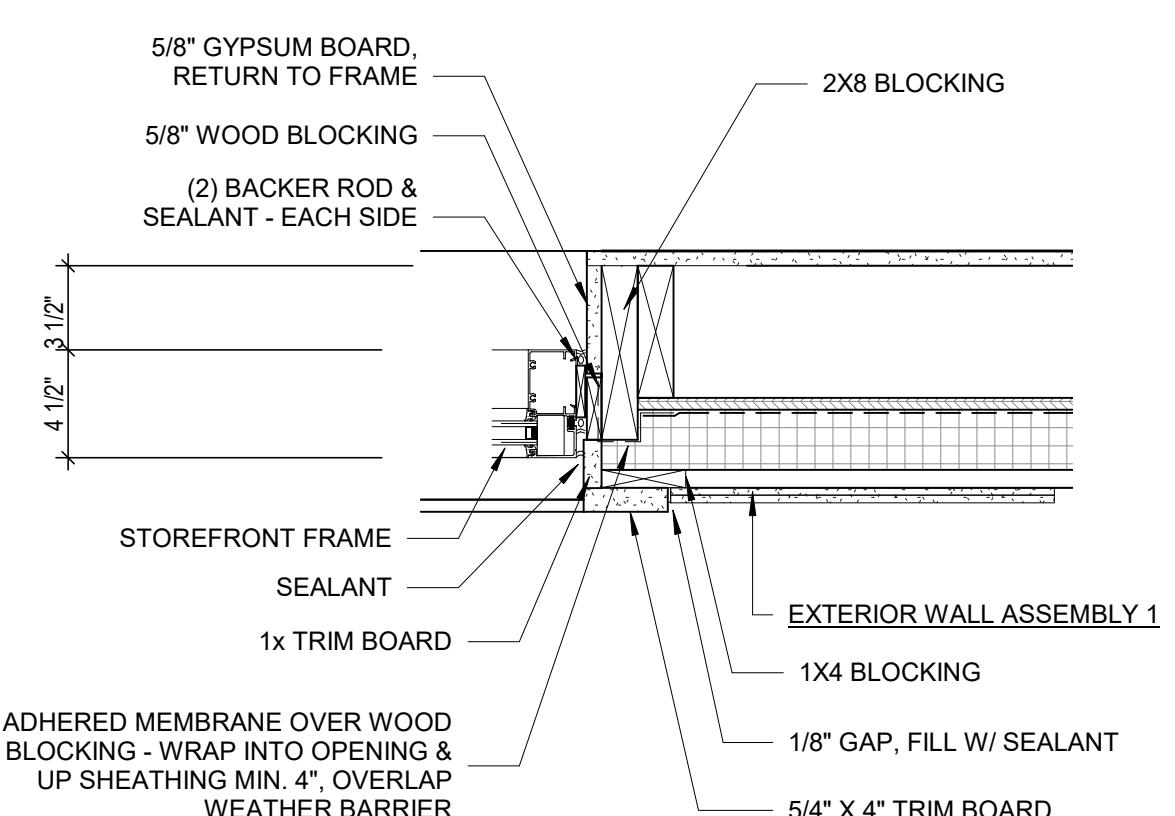
8 SILL DETAIL @ STOREFRONT - SIDING

SCALE: 1 1/2" = 1'-0"



6 DETAIL @ DOOR THRESHOLD

SCALE: 1 1/2" = 1'-0"



9 JAMB DETAIL @ SIDING

SCALE: 1 1/2" = 1'-0"

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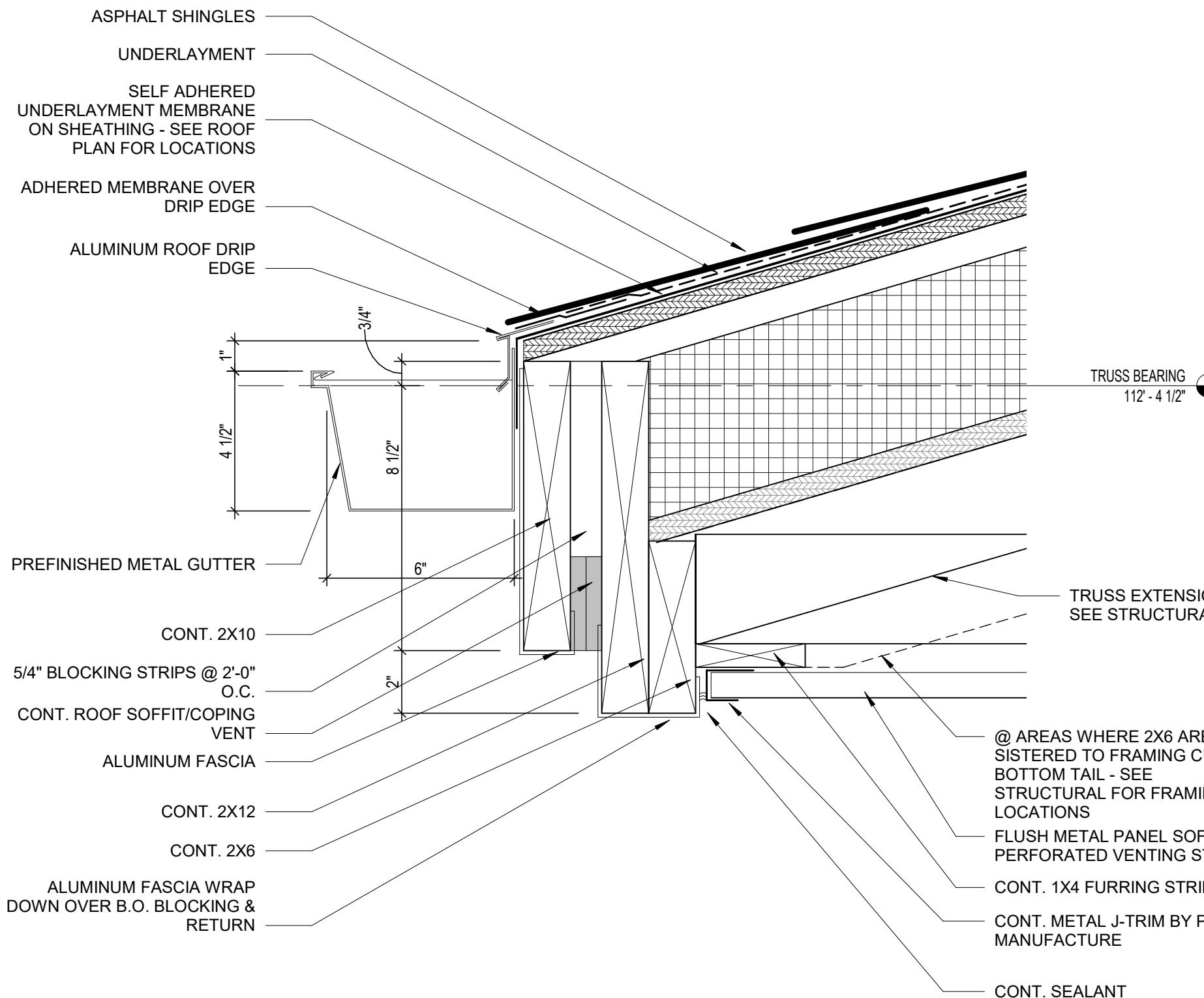
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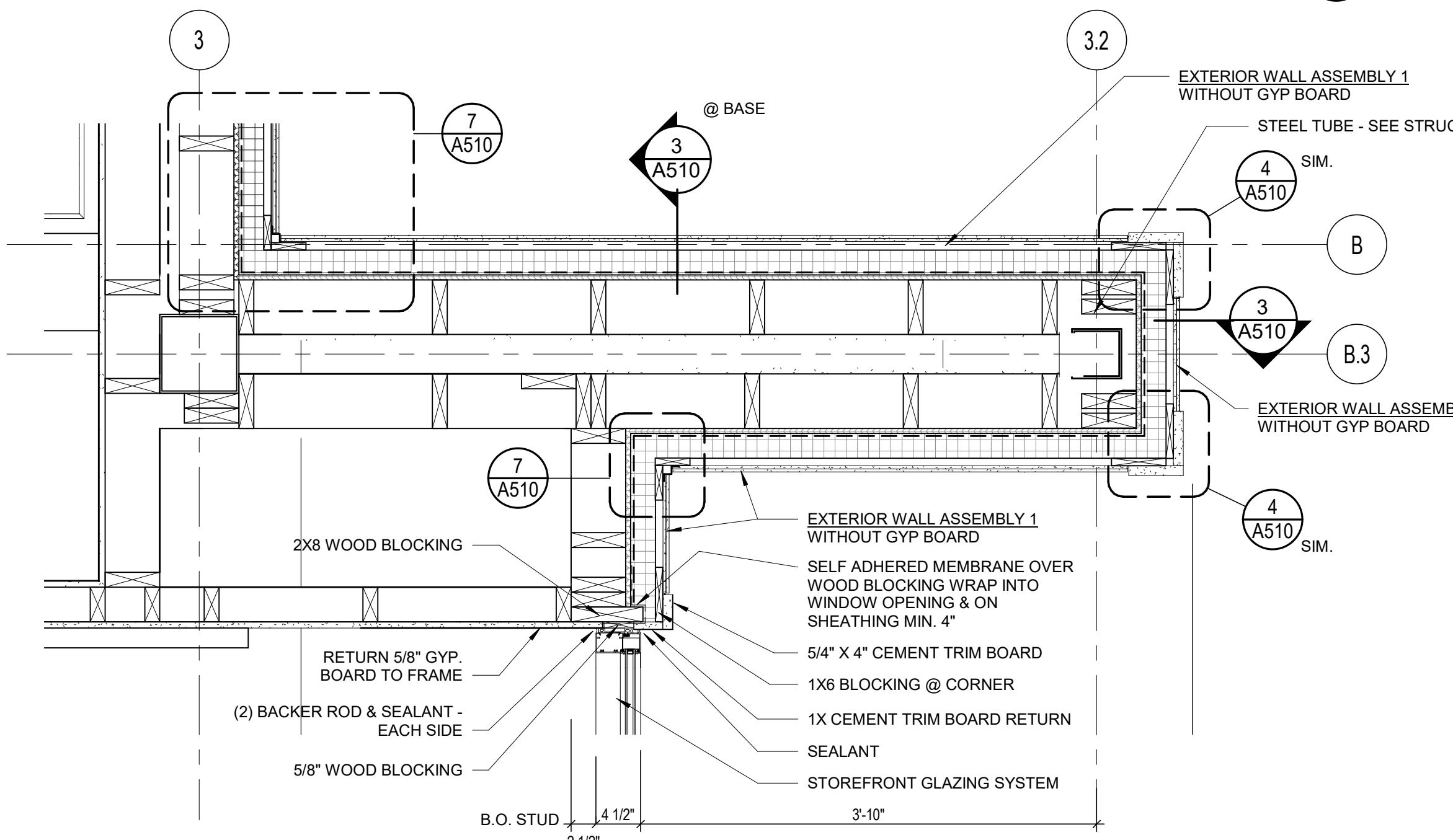
## DETAILS

A510



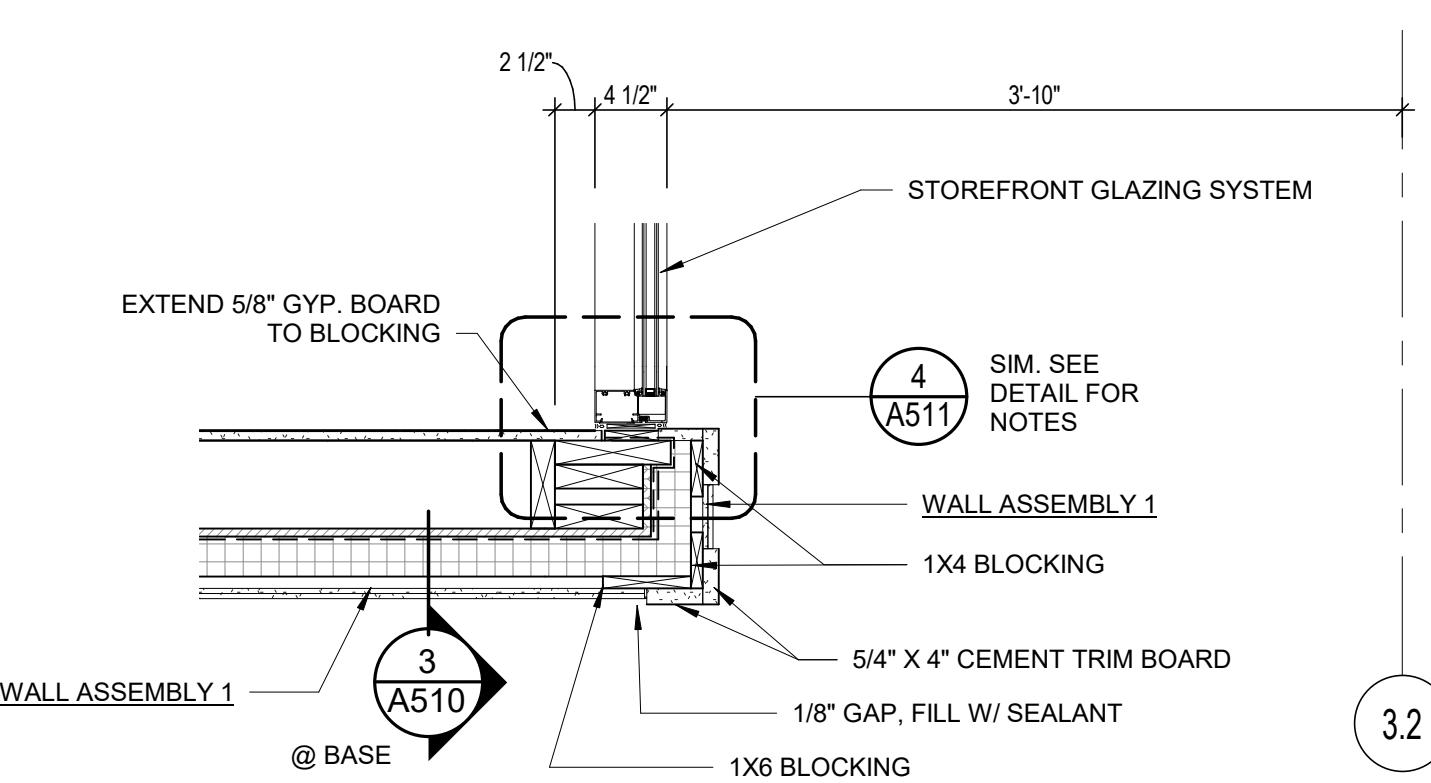
1 ROOF GUTTER DETAIL, TYP.

SCALE: 3" = 1'-0"



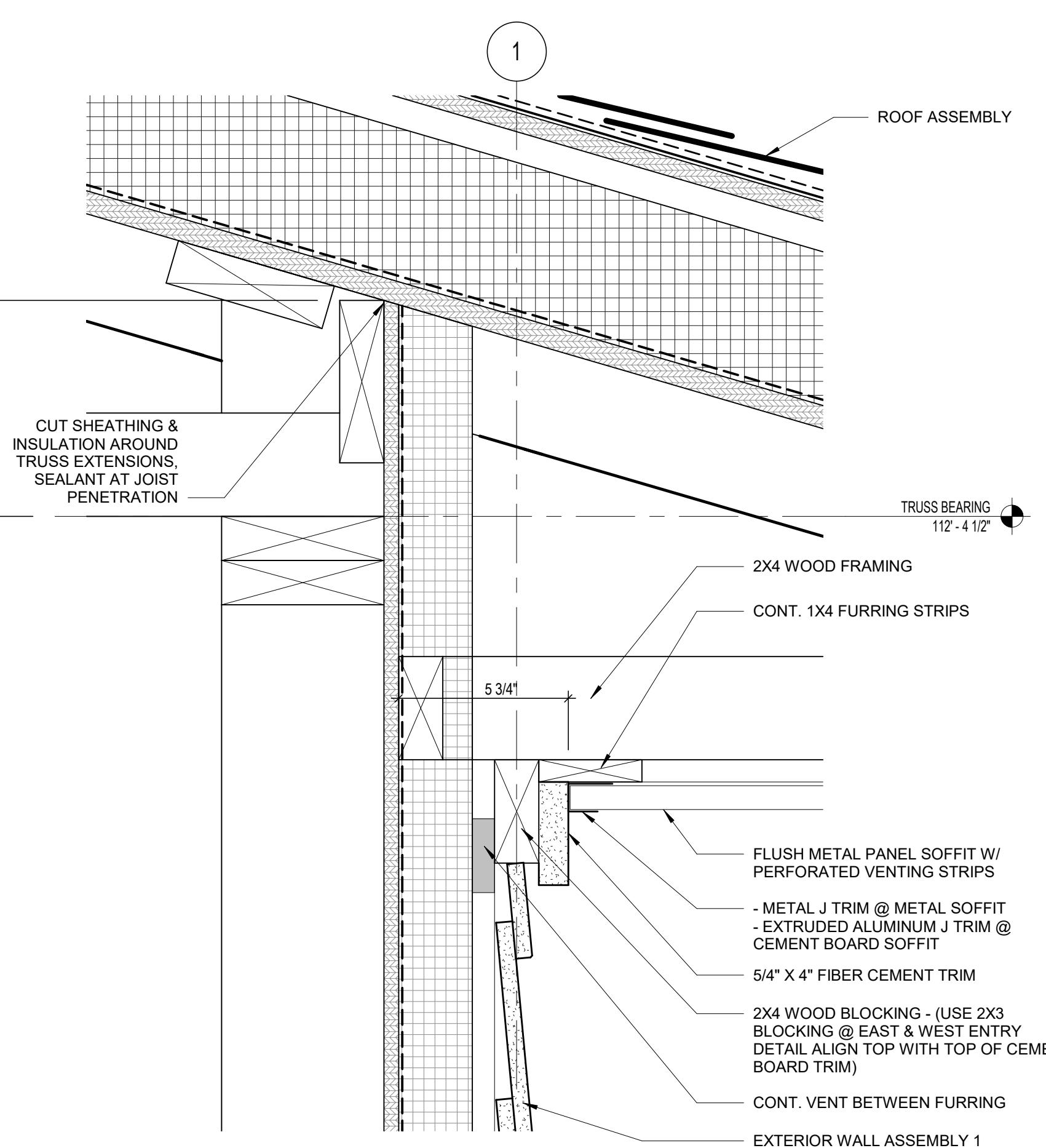
4 JAMB DETAIL @ EAST ENTRY - NORTH

SCALE: 1" = 1'-0"



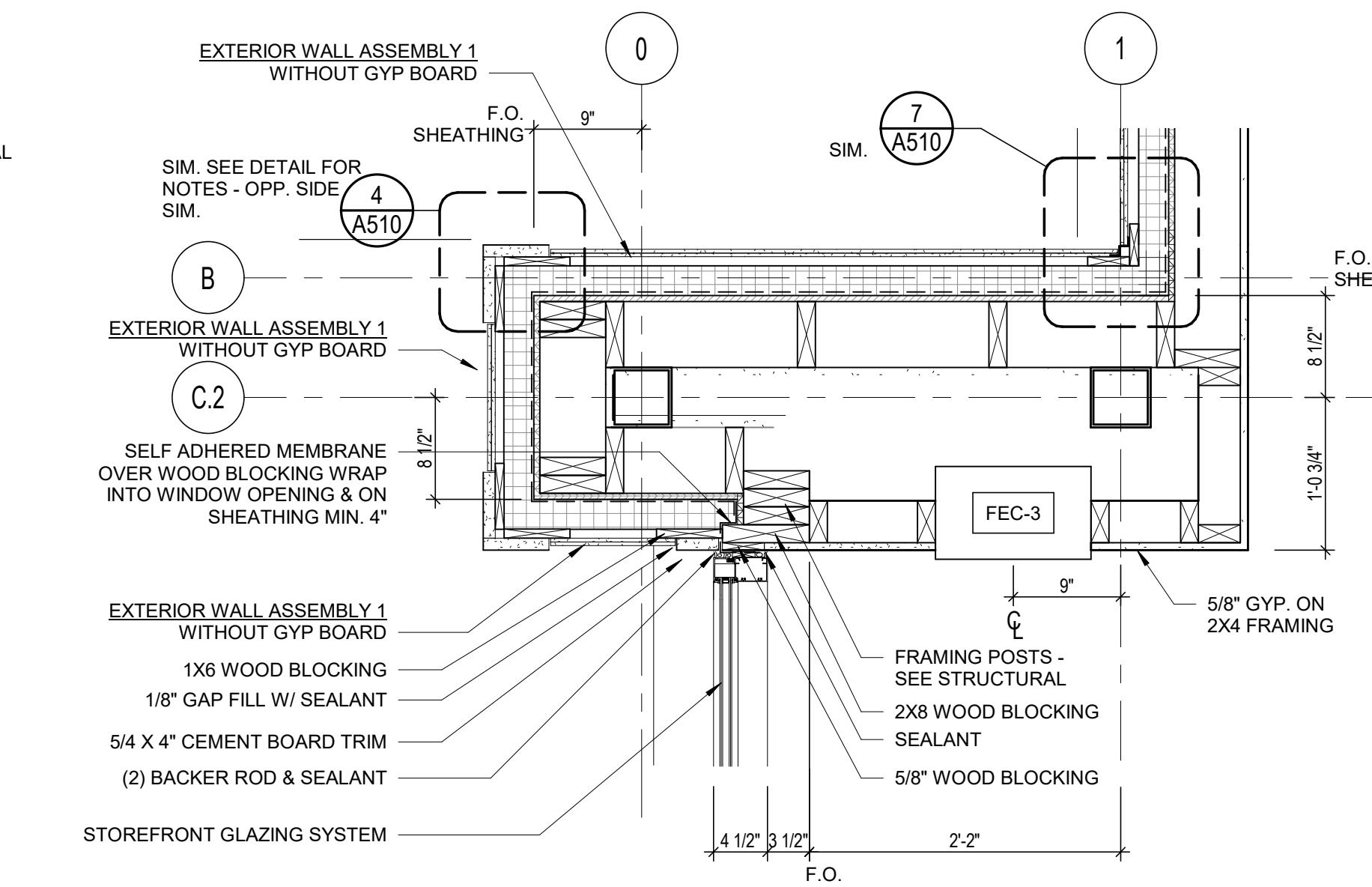
7 JAMB DETAIL AT EAST ENTRY - SOUTH

SCALE: 1" = 1'-0"



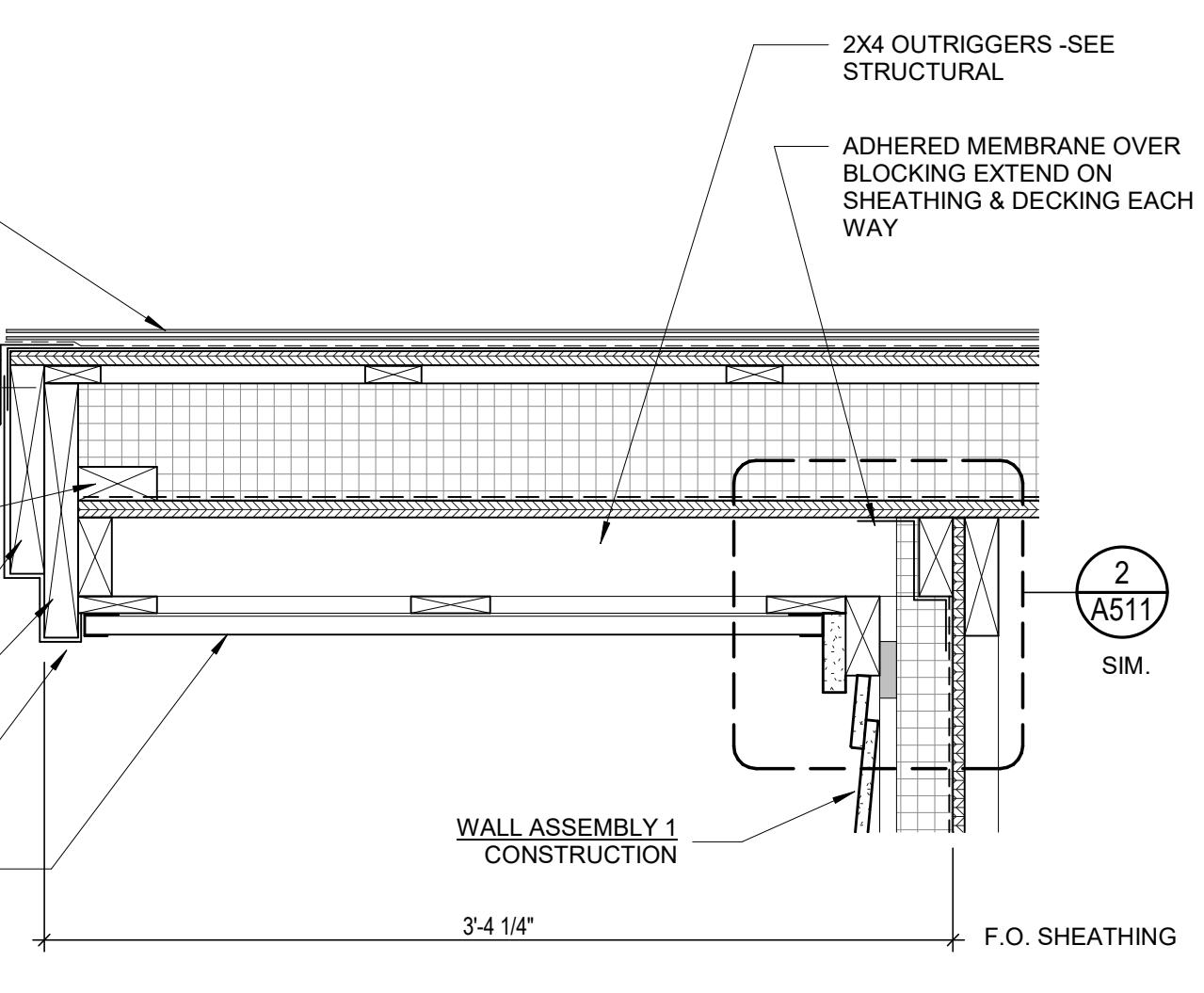
3 TYPICAL MAIN ROOF RAKE DETAIL

SCALE: 1 1/2" = 1'-0"



5 JAMB DETAIL @ WEST ENTRY

SCALE: 1" = 1'-0"



6 EXTERIOR LOUVER SECTION

SCALE: 1" = 1'-0"

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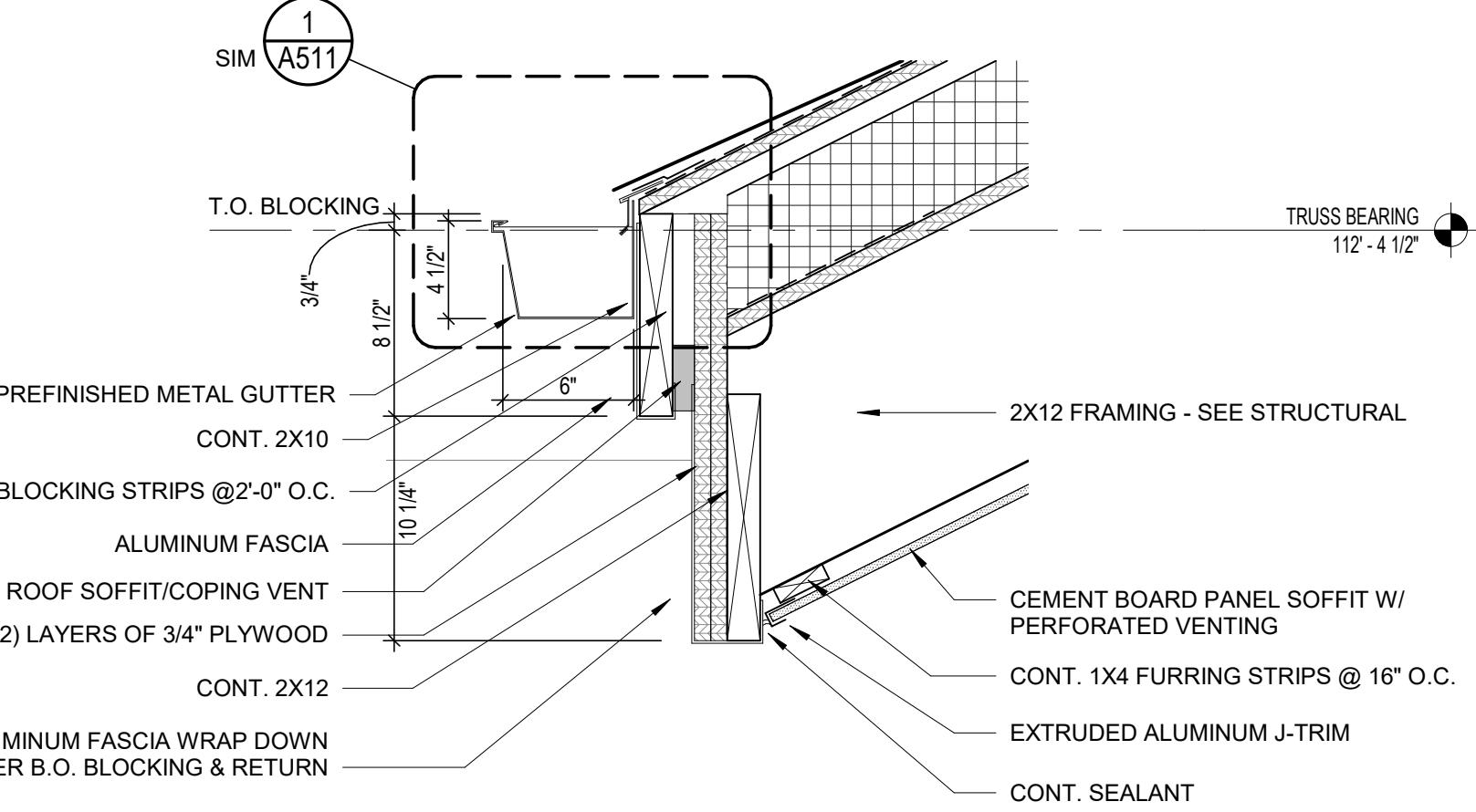
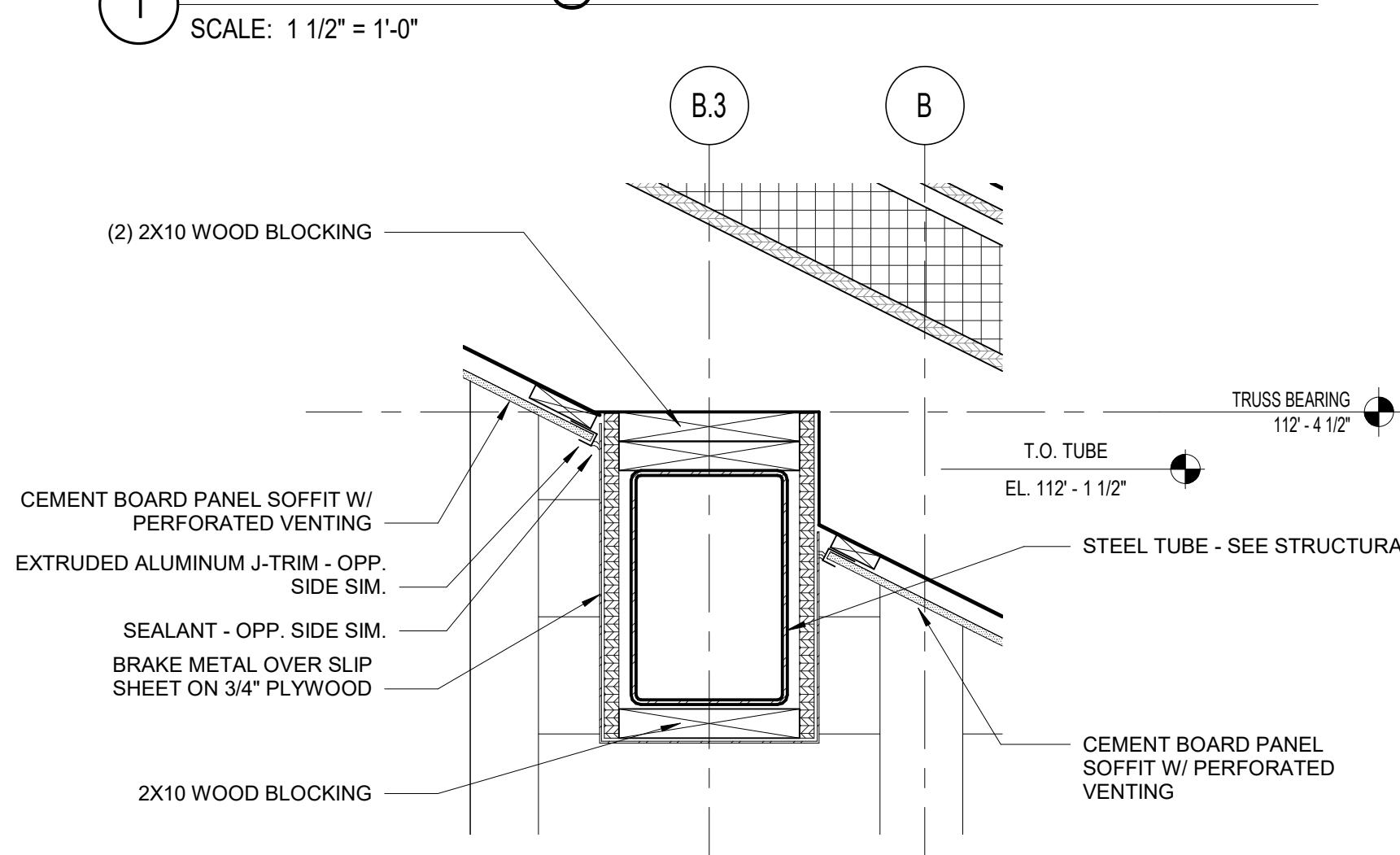
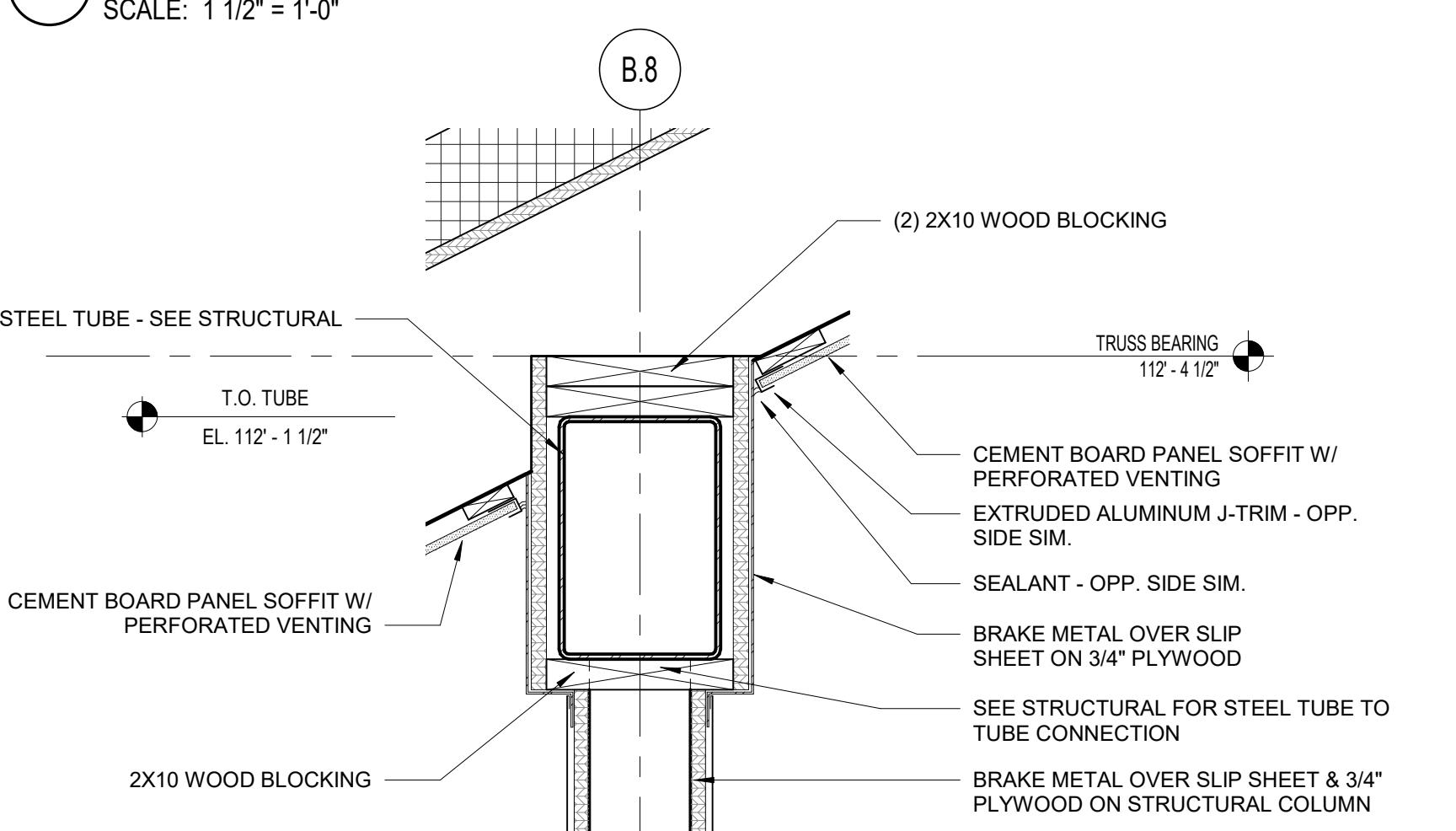
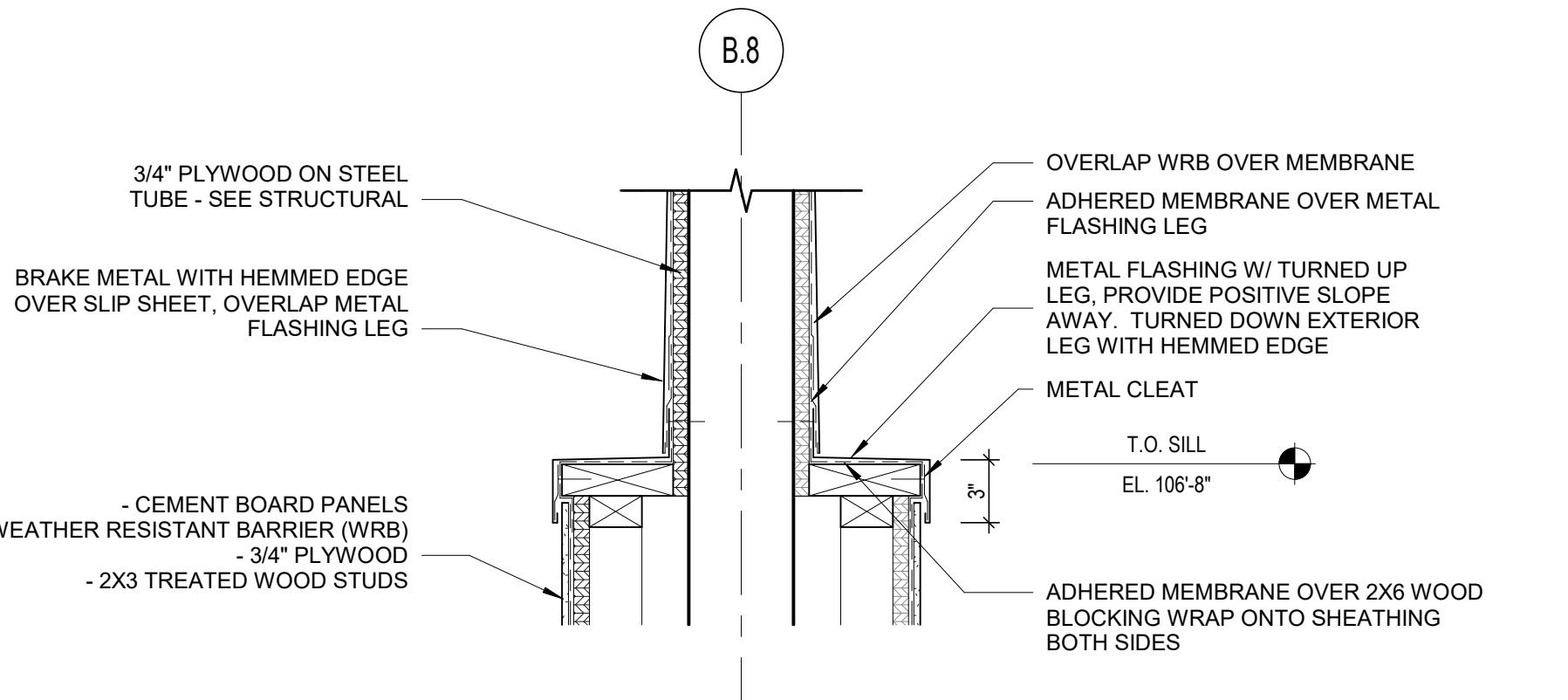
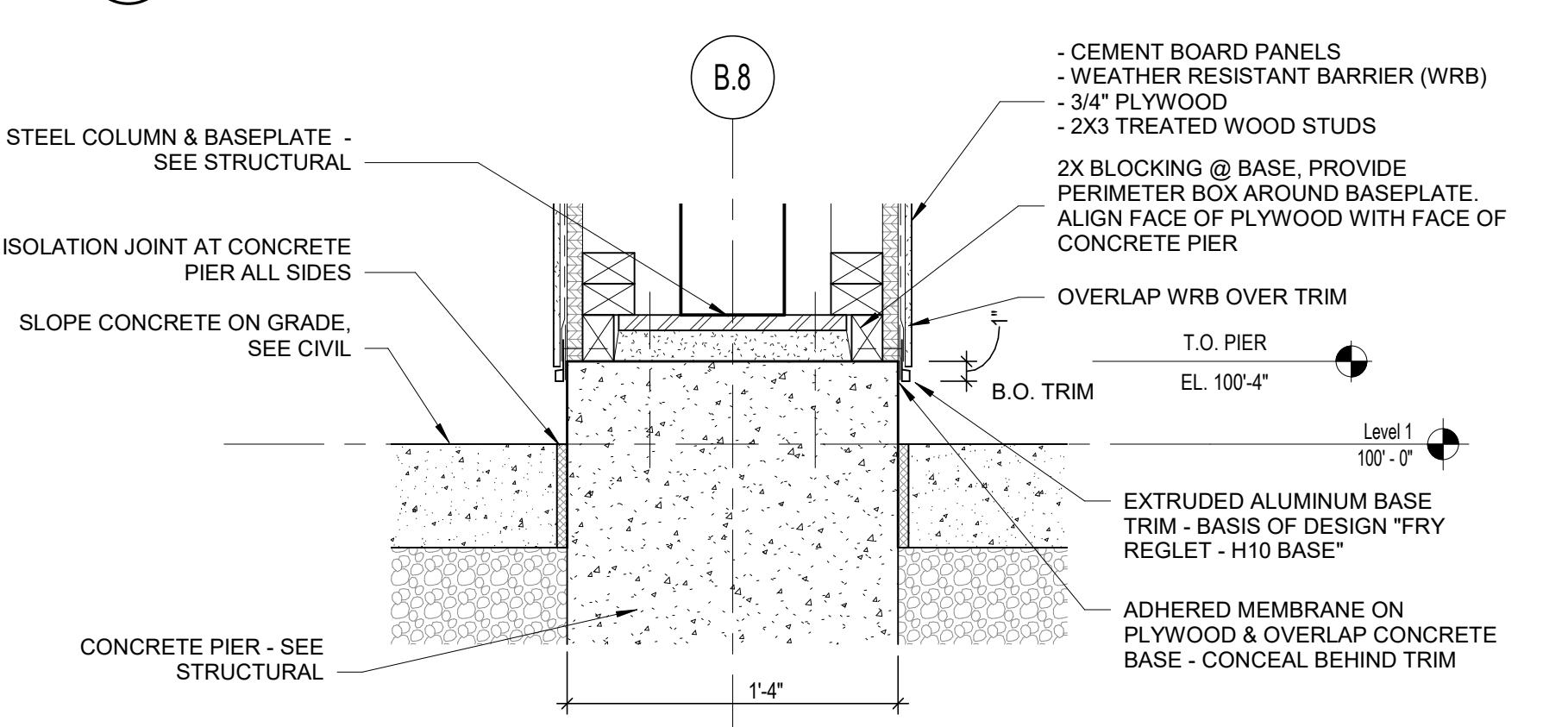
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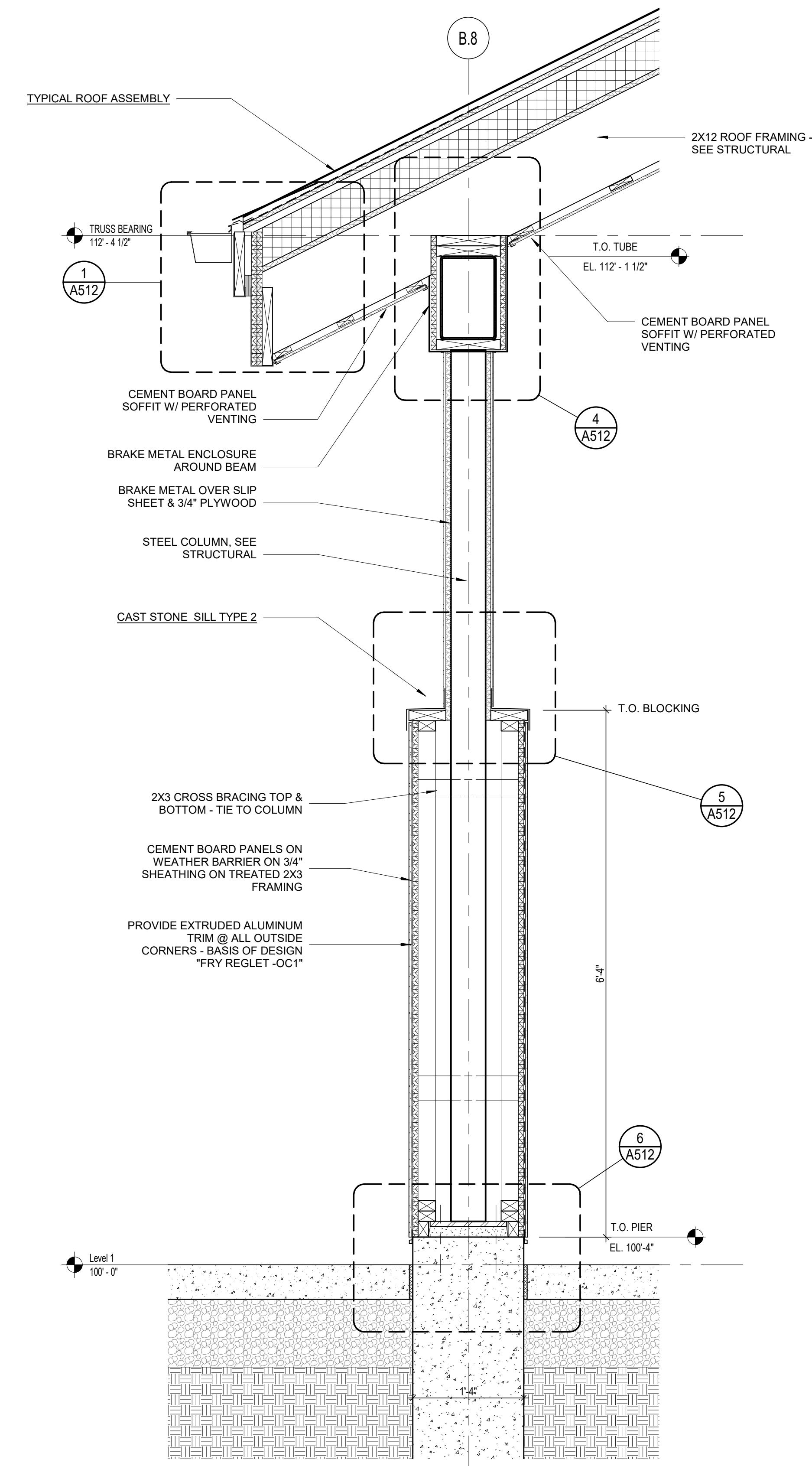
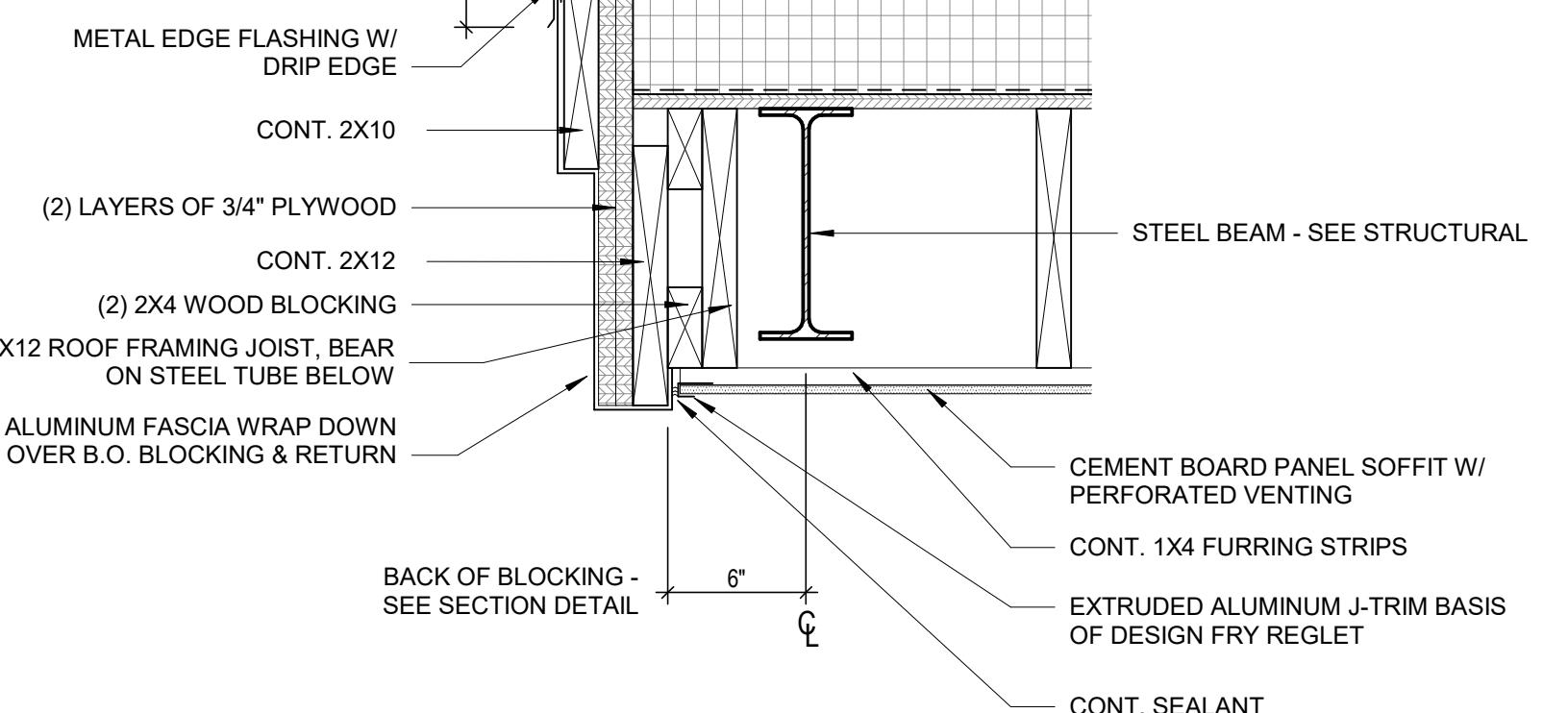
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## DETAILS

**A511**


**1 GUTTER DETAIL @ GABLE ROOF**

**2 GABLE RAKE DETAIL**

**4 DETAIL AT COLUMN & BEAM CONNECTION**

**5 STONE CAP DETAIL AT EXTERIOR COLUMN**

**6 BASE DETAIL AT EXTERIOR COLUMN**

SCALE: 1 1/2" = 1'-0"


**7 SECTION AT COLUMN**

SCALE: 1" = 1'-0"

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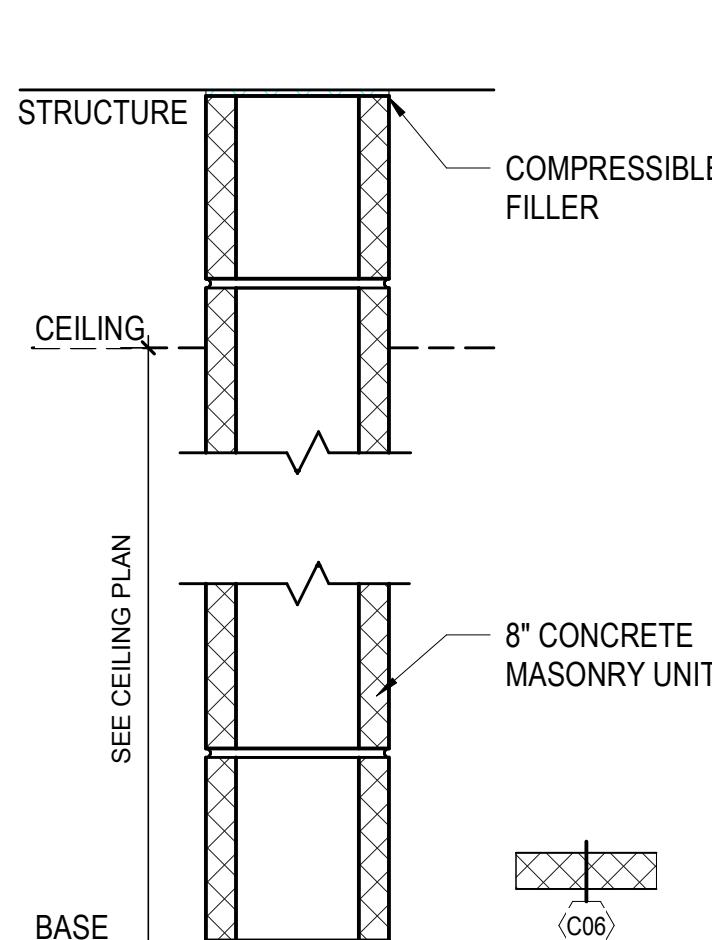
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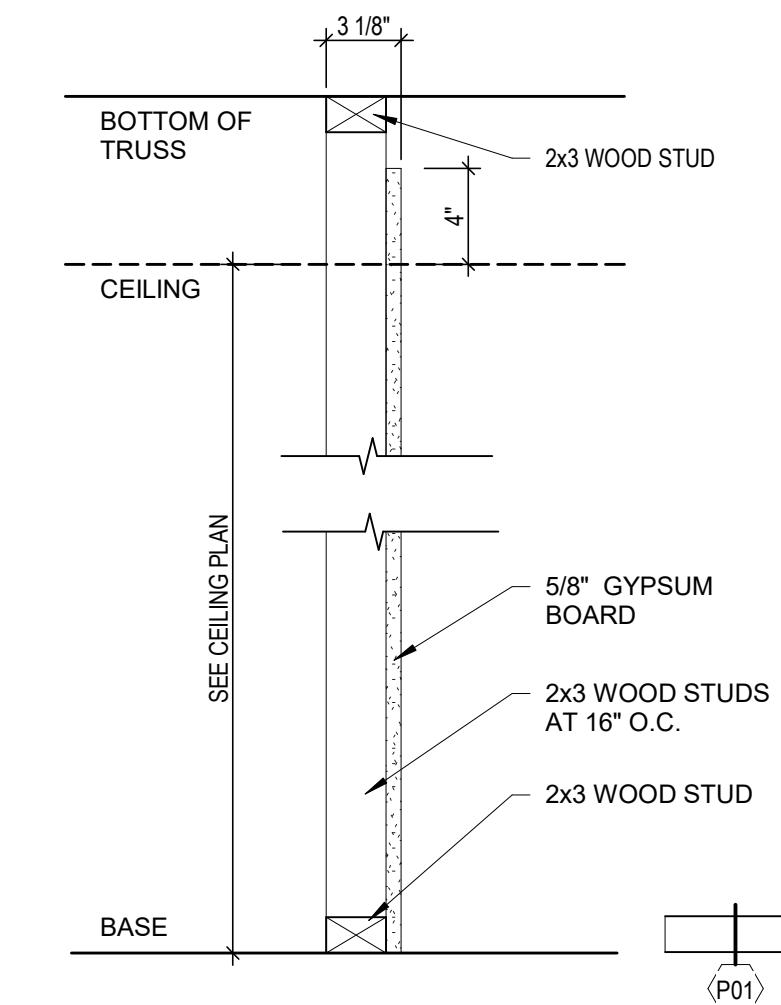
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## DETAILS

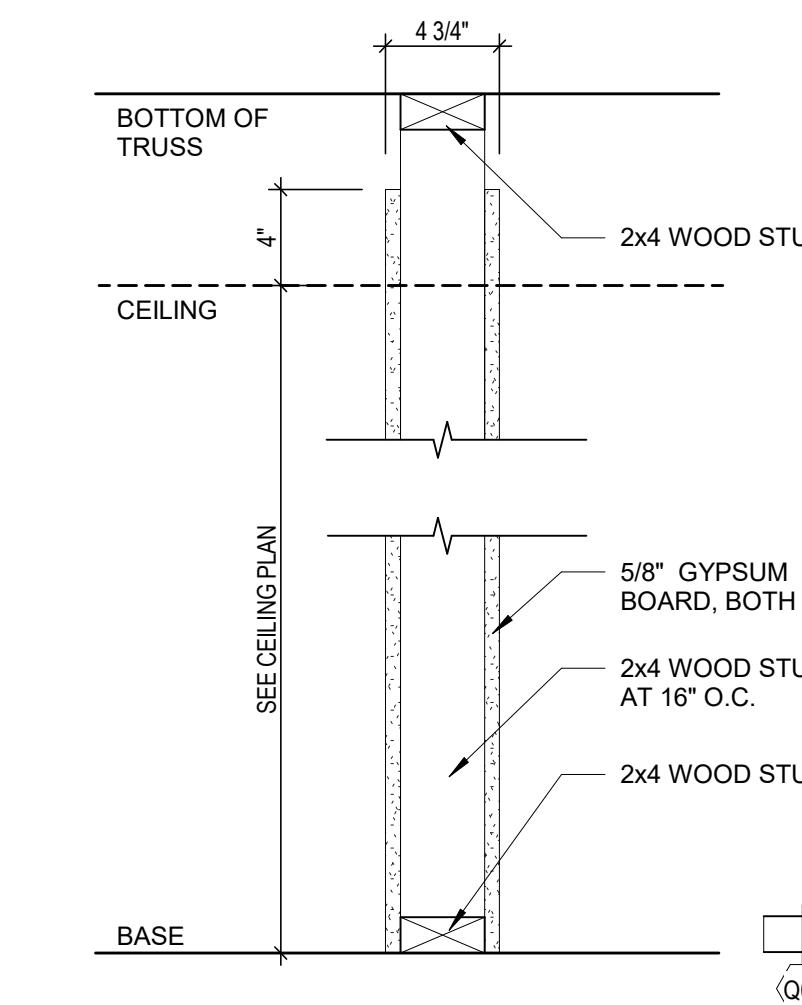
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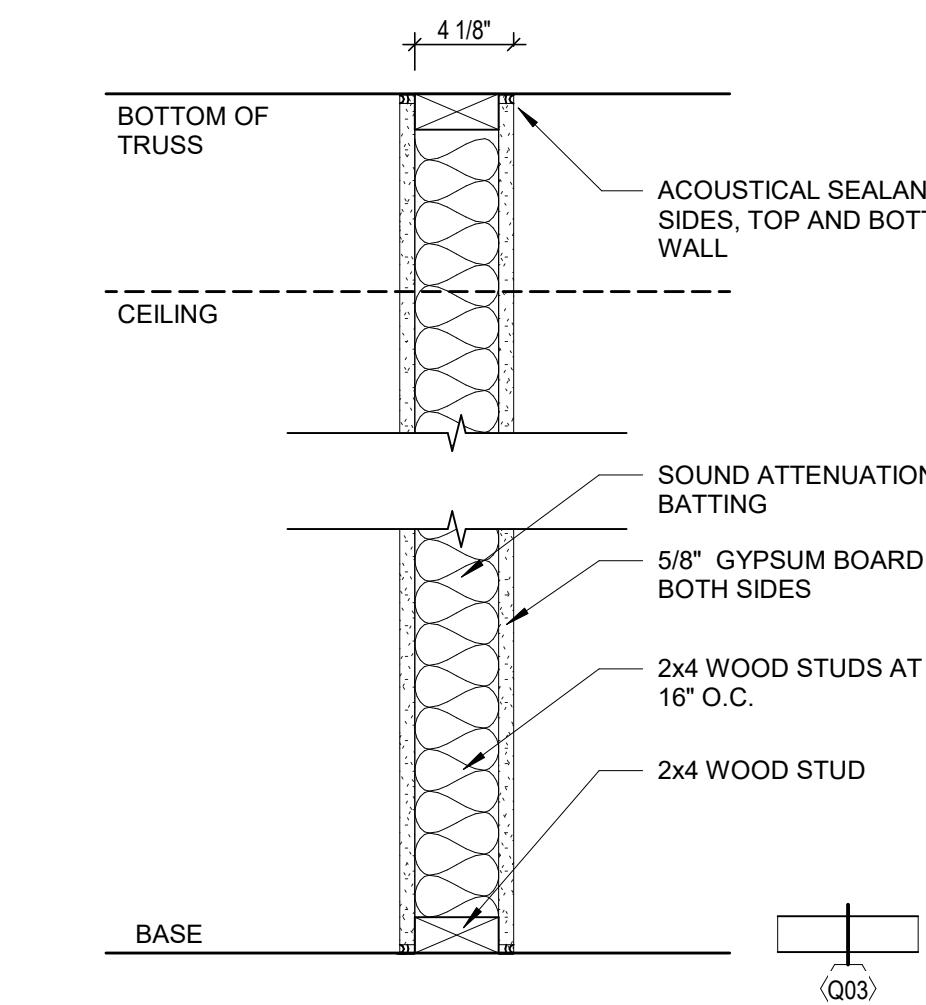
Wall Type - C06 - Non-Rated



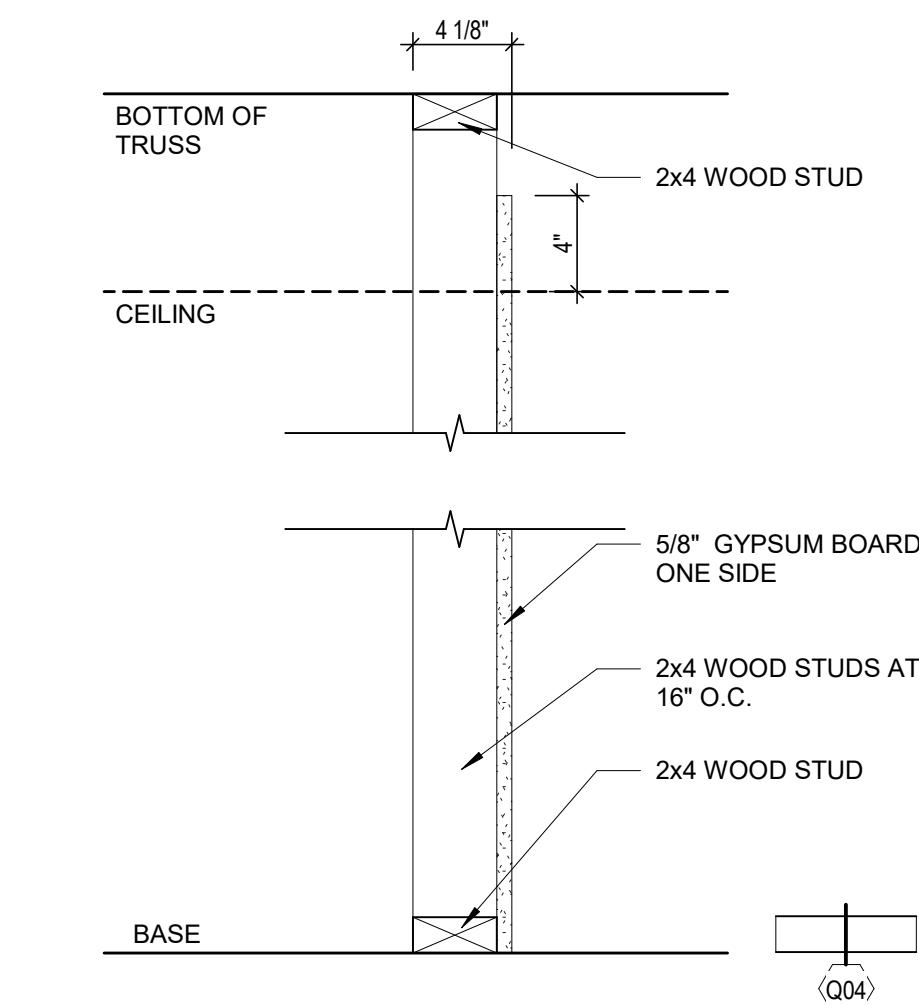
Wall Type - P01 - Non-Rated



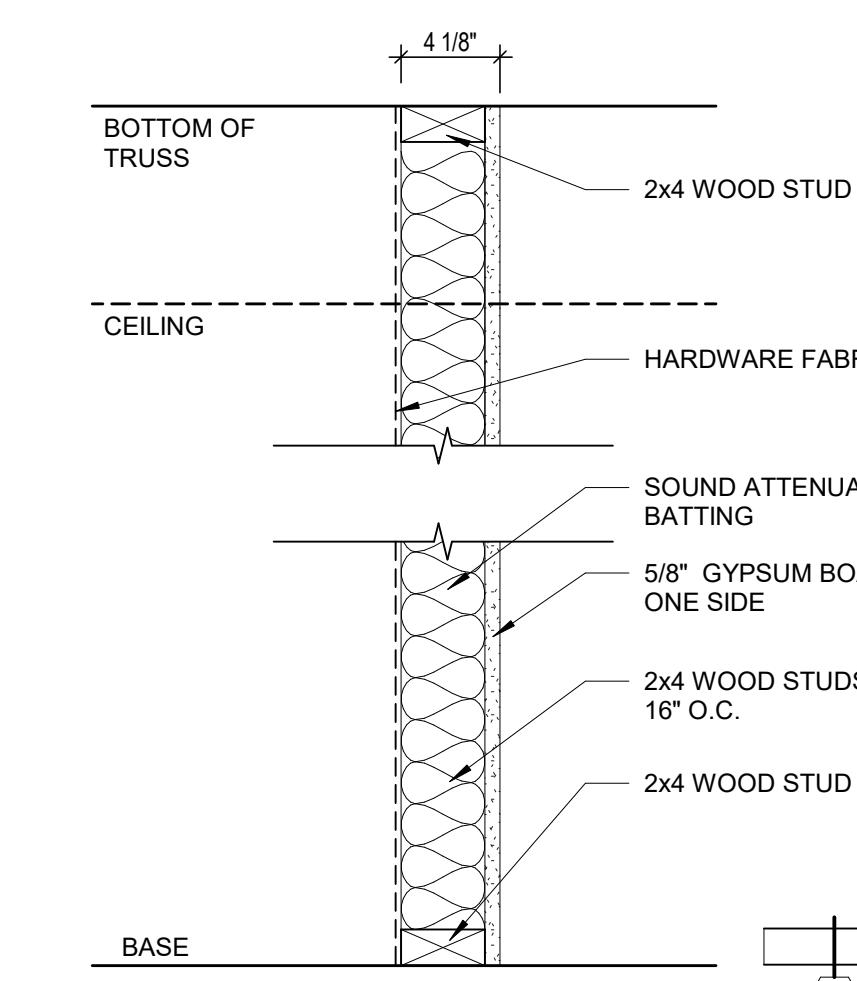
Wall Type - Q01 - Non-Rated



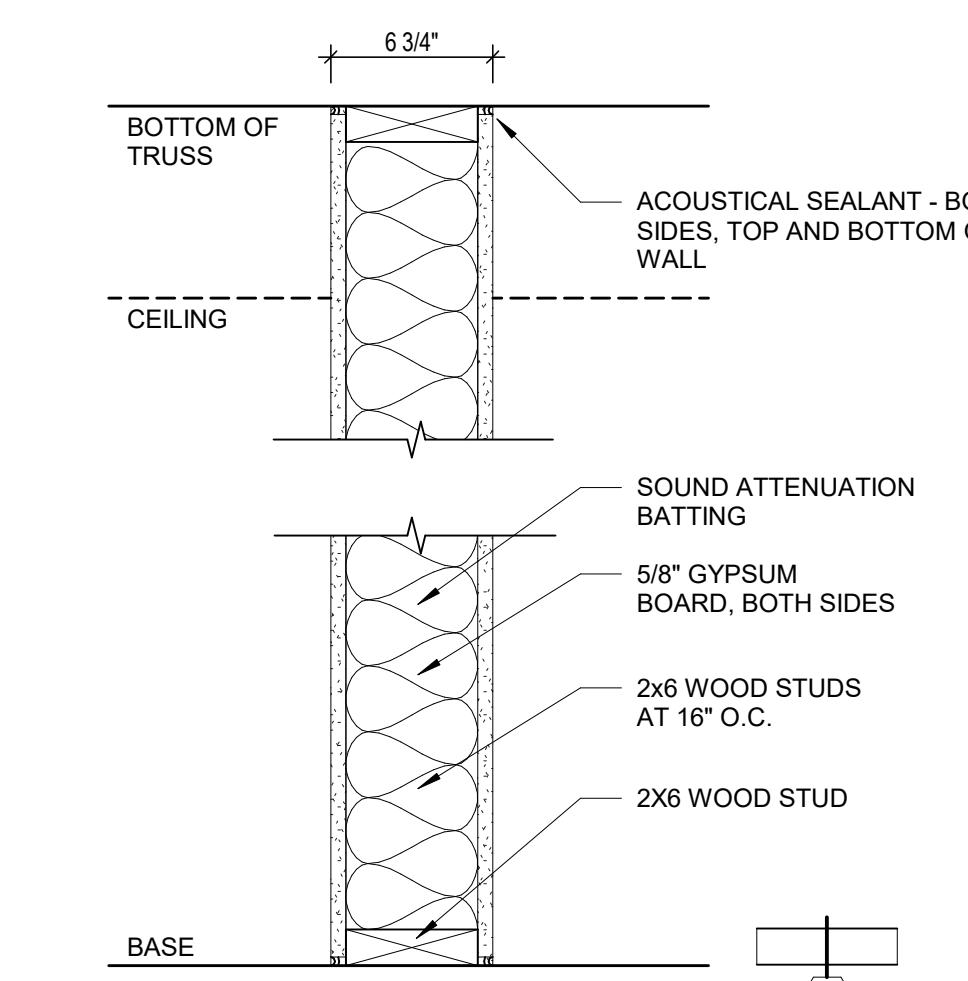
Wall Type - Q03 - Non-Rated



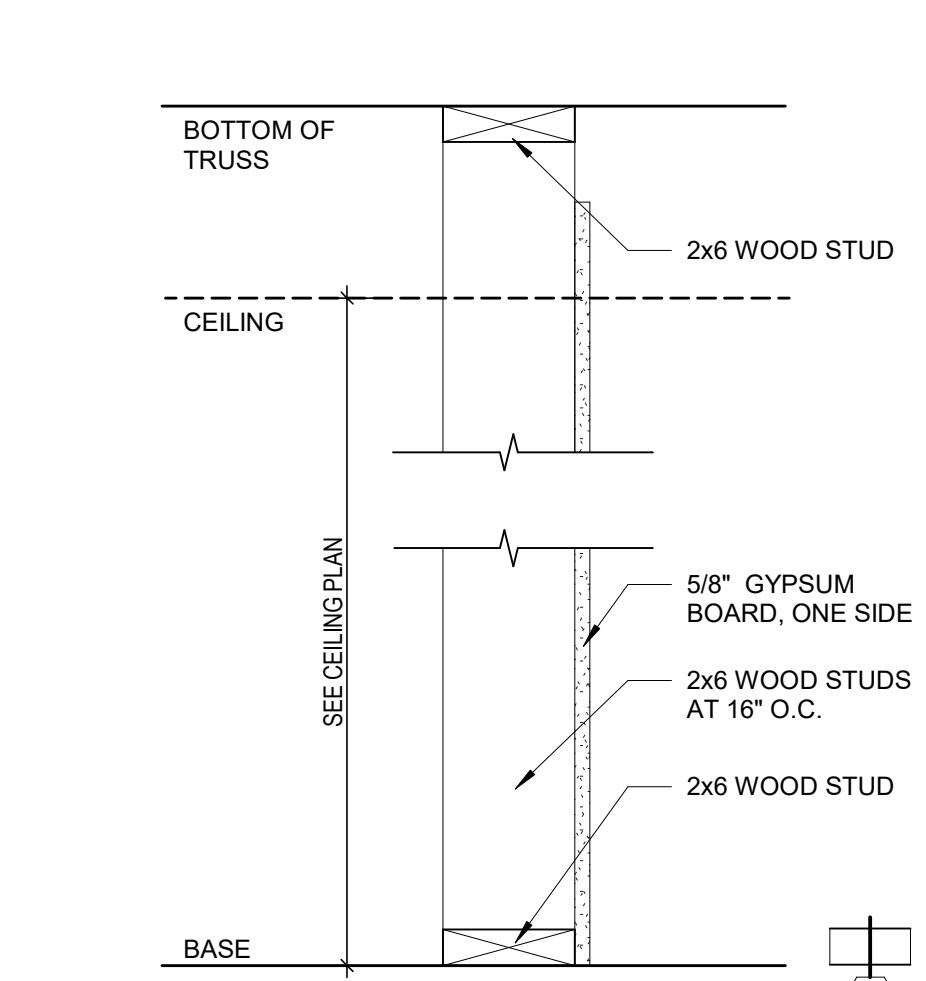
Wall Type - Q04 - Non-Rated



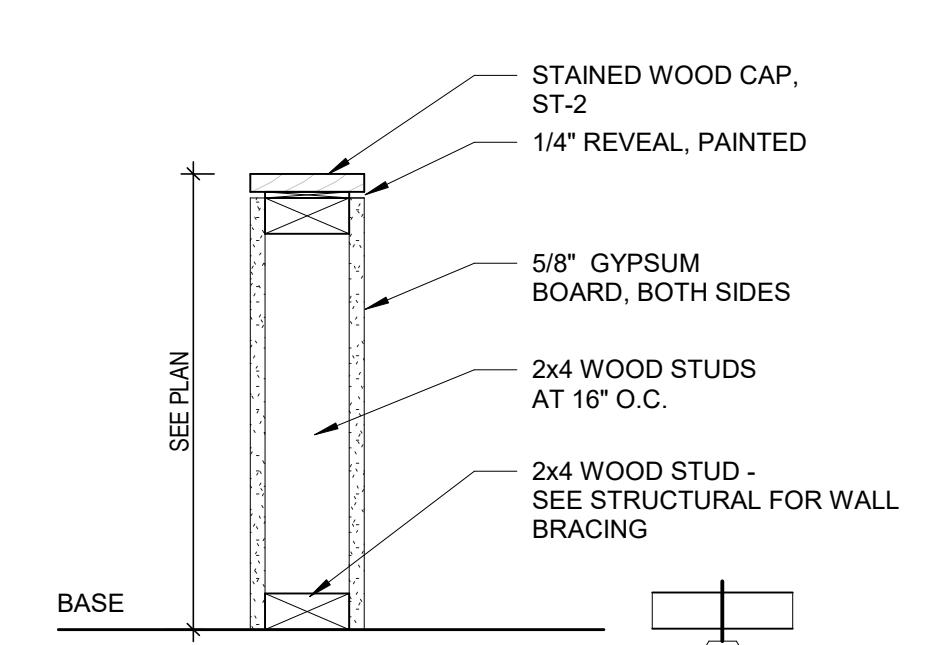
Wall Type - Q05 - Non-Rated



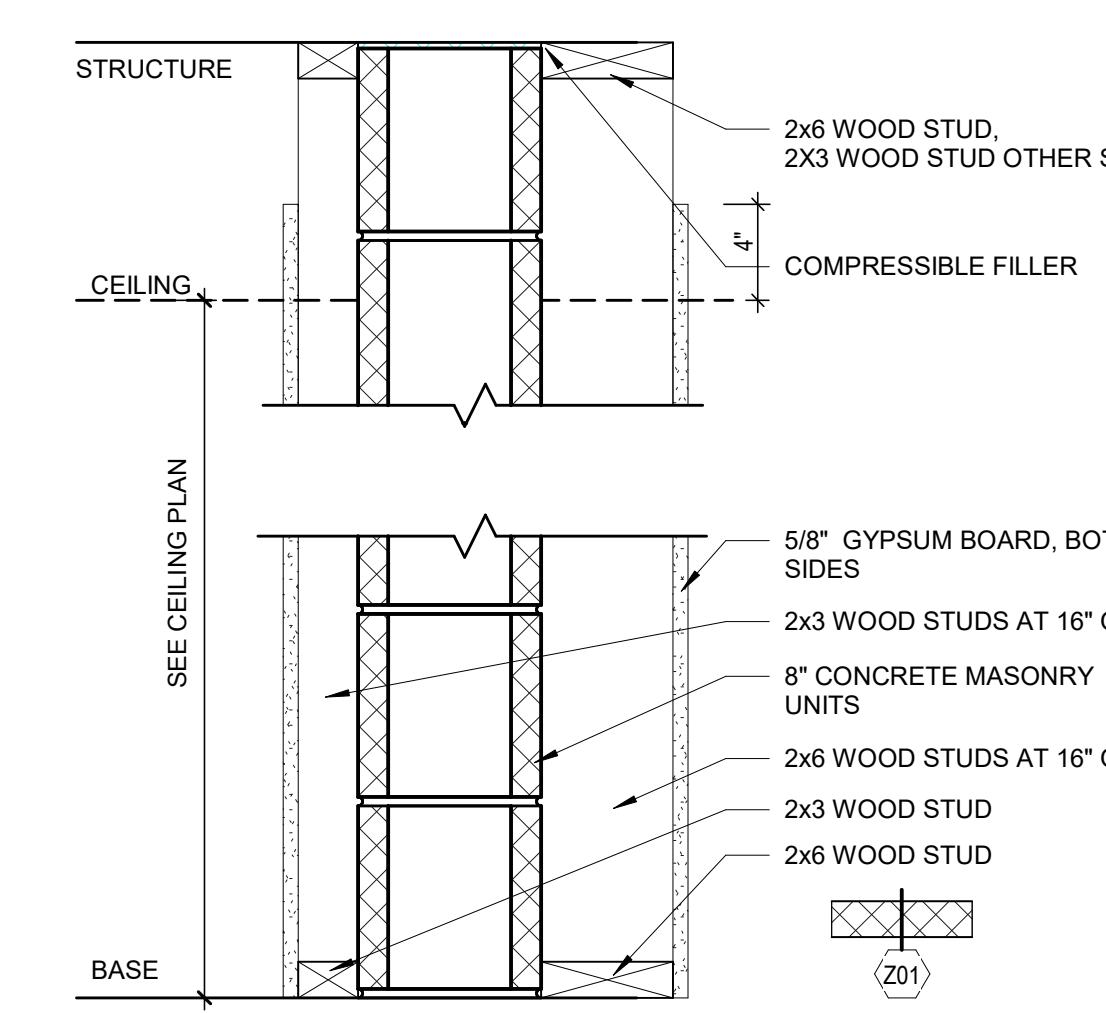
Wall Type - W06 - Non-Rated



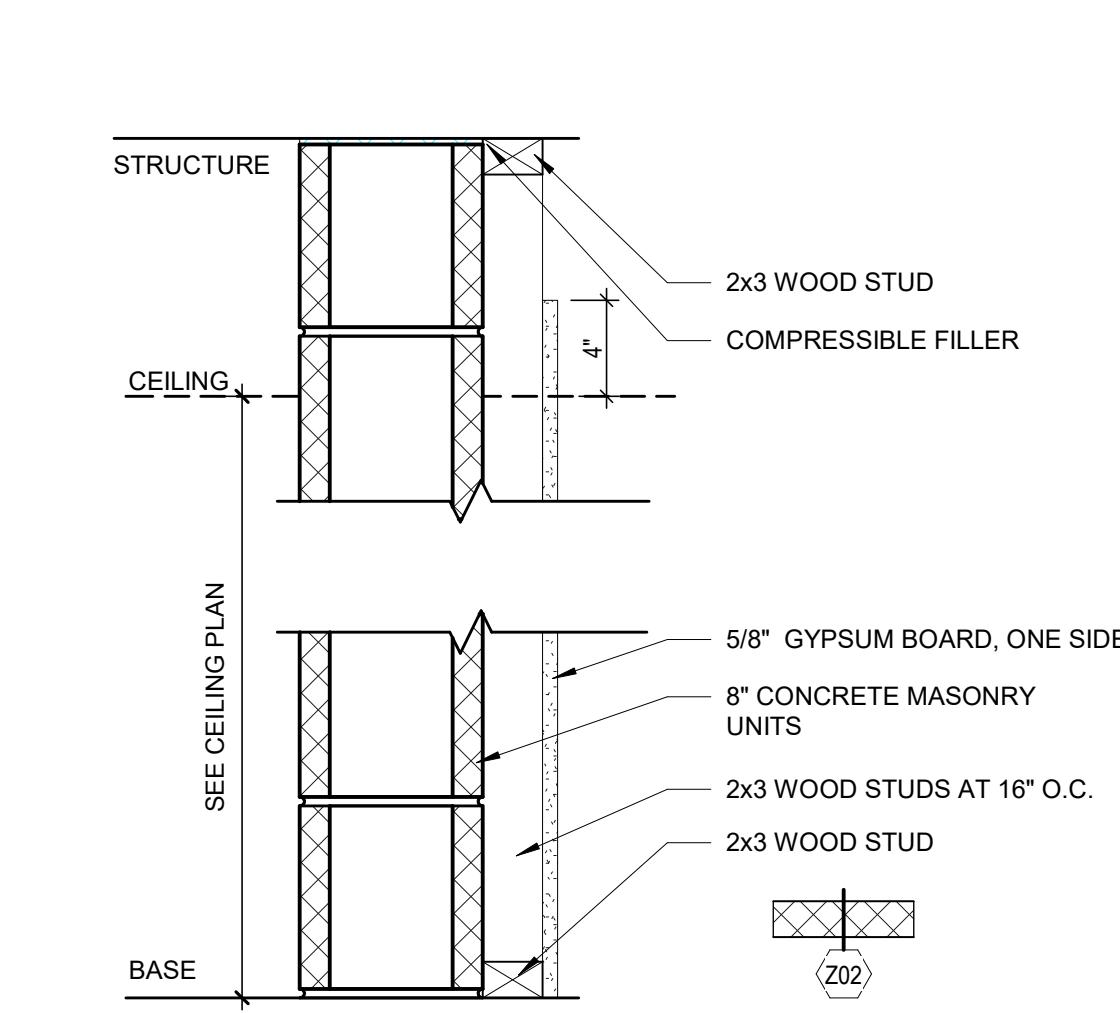
Wall Type - W07 - Non-Rated



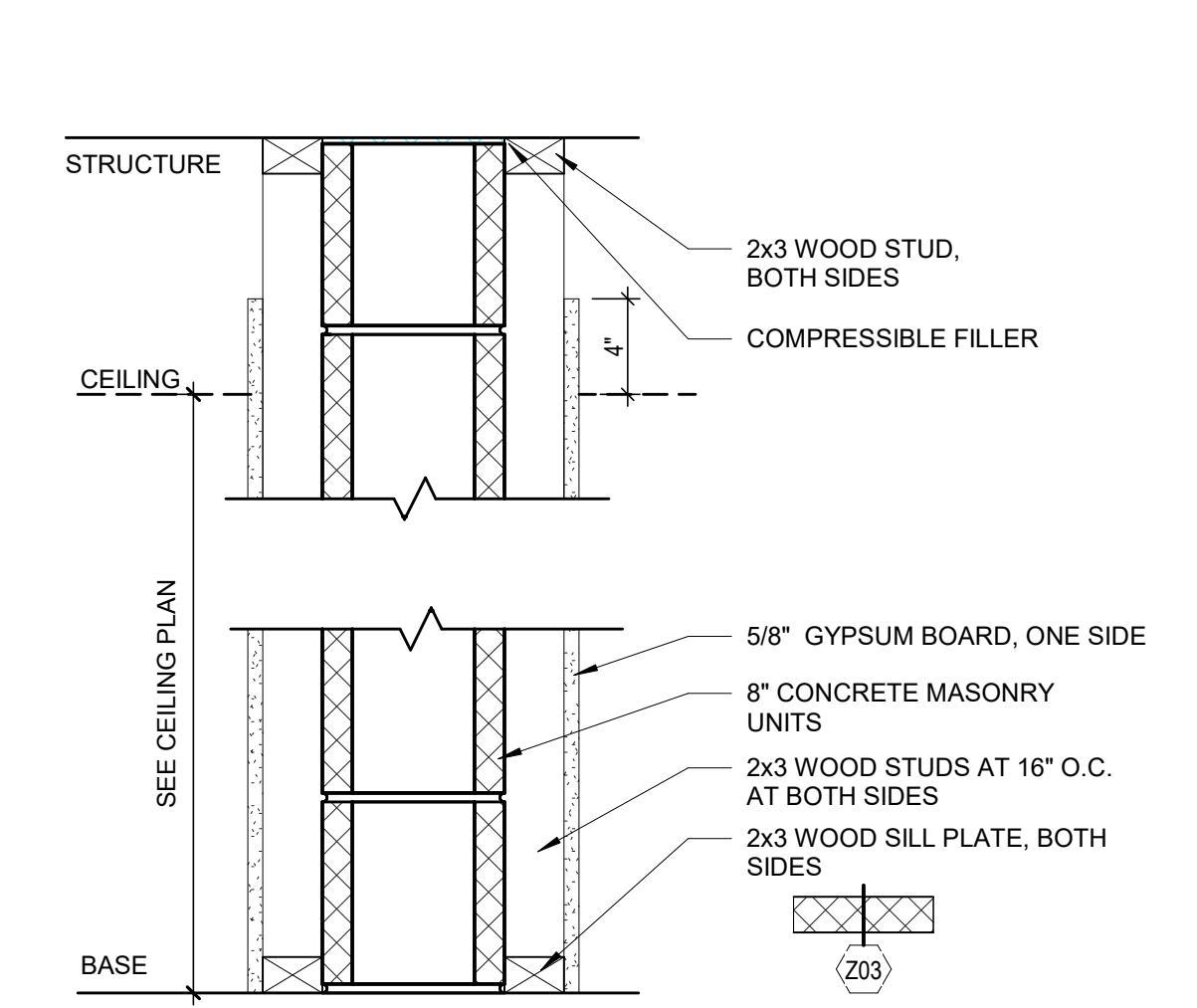
Wall Type - W01 - Non-Rated



Wall Type - Z01 - Non-Rated



Wall Type - Z02 - Non-Rated



Wall Type - Z03 - Non-Rated

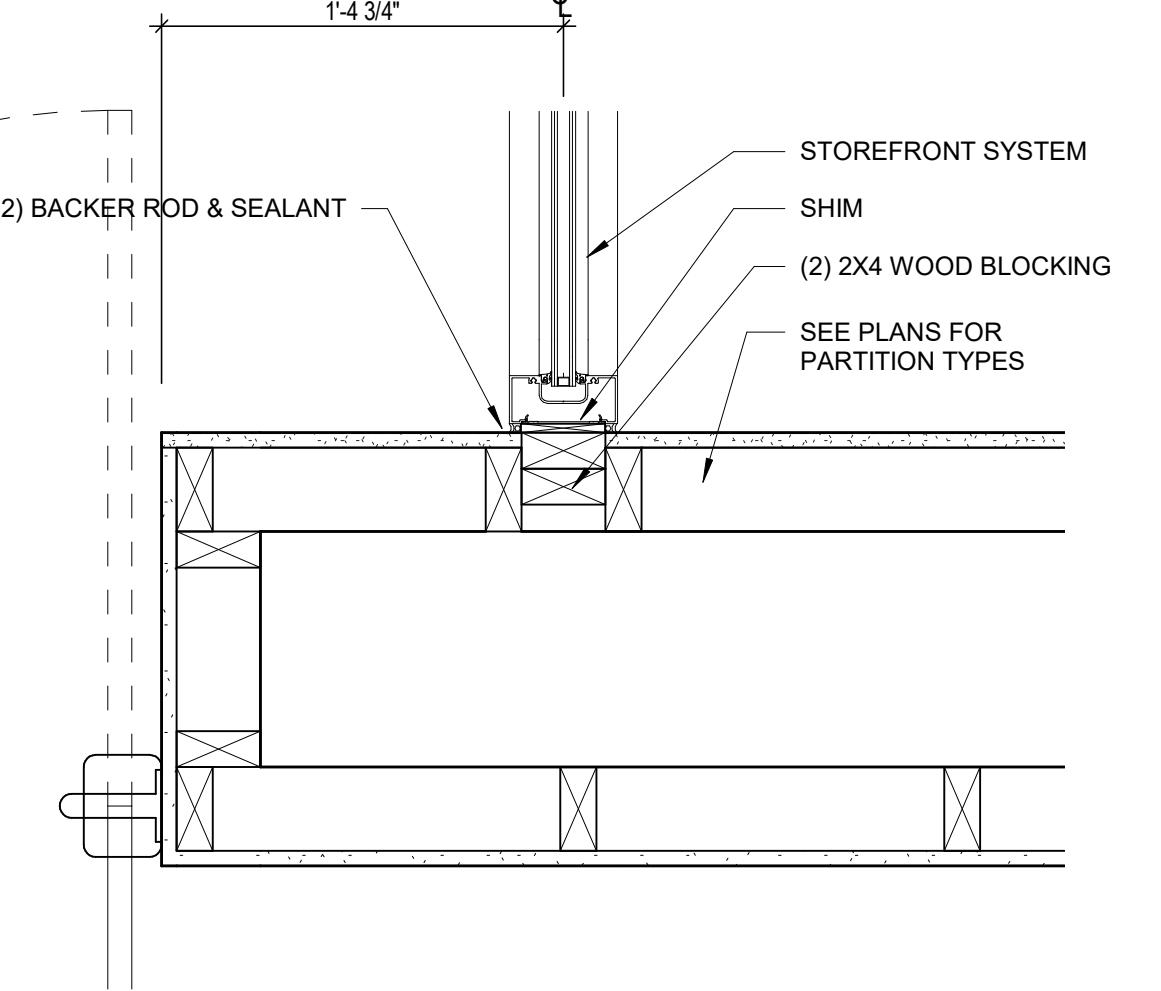
**A601**

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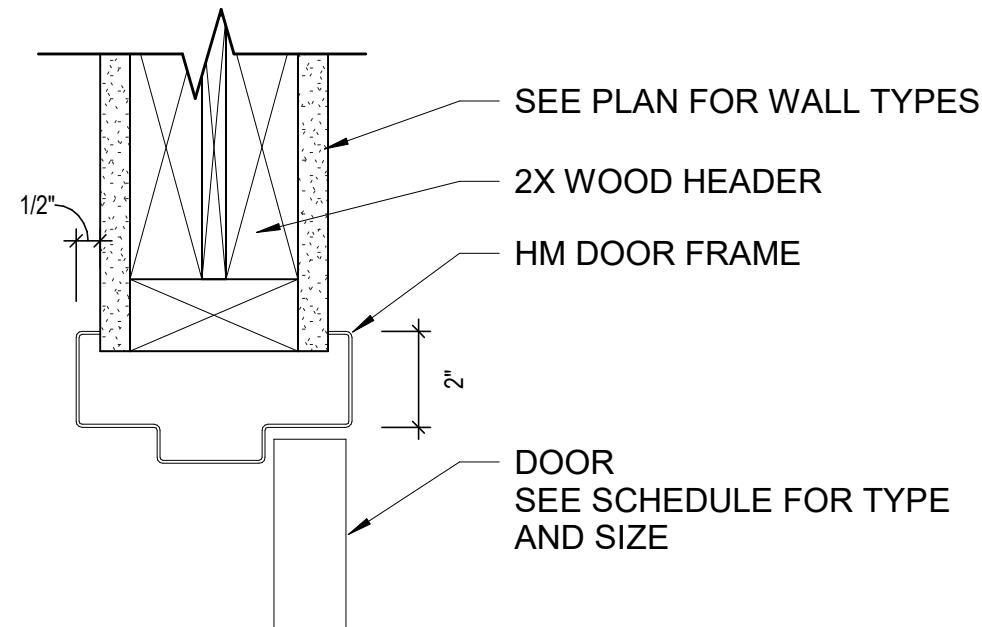
**INTERIOR WALL TYPES**

NUMBER	TYPE	MAT'L	FINISH	DOOR		FRAME		DETAIL		GLAZIN G	HARDWARE	REMARKS	NUMBER	
				WIDTH	HEIGHT	TYPE	MAT'L	FINISH	JAMB					
100-1	P	ALUM	MED-BRZ	(2)	6'-0"	7'-2"	SEE ELEV.	ALUM	MED-BRZ	SEE ELEV.	SEE ELEV.	IGL-1	1.0	100-1
100-2	P	ALUM	MED-BRZ	(2)	6'-0"	7'-2"	SEE ELEV.	ALUM	MED-BRZ	SEE ELEV.	SEE ELEV.	GL-1	5.0	100-2
101-1	P	ALUM	MED-BRZ	(2)	6'-0"	7'-2"	SEE ELEV.	ALUM	MED-BRZ	SEE ELEV.	SEE ELEV.	GL-1	1.1	101-1
102-1	P	ALUM	MED-BRZ	(2)	6'-0"	7'-0"	1	ALUM	MED-BRZ	SEE ELEV.	SEE ELEV.	GL-1	6.0	102-1
102-2	A	ALUM	MED-BRZ		3'-0"	7'-0"	SEE ELEV.	ALUM	MED-BRZ	SEE ELEV.	SEE ELEV.		4.0	102-2
102A-1	A	WOOD	ST	(2)	2'-6"	7'-0"	1	HM	PT-10	7/A602	5/A602	-	7.0	102A-1
103-1	A	WOOD	ST		3'-0"	7'-0"	1	HM	PT-10	7/A602	5/A602		8.0	103-1
105-1	A	WOOD	ST		3'-0"	7'-0"	1	HM	PT-10	7/A602	5/A602		17.0	105-1
106-1	A	WOOD	ST		3'-0"	7'-0"	1	HM	PT-10	7/A602	5/A602		16.0	106-1
107-1	A	WOOD	ST		3'-0"	7'-0"	1	HM	PT-10	7/A602	5/A602		16.0	107-1
113-1	P	ALUM	MED-BRZ	(2)	6'-0"	7'-0"	SEE ELEV.	ALUM	MED-BRZ	SEE ELEV.	SEE ELEV.	IGL-1	2.0	113-1
117-1	A	WOOD	ST		3'-0"	7'-0"	SEE ELEV.	HM	PT-10	7/A602; 6/A602	5/A602		12.0	117-1
117-2	L	WOOD	ST		3'-2"	7'-0"	1	HM	PT-10				18.0	117-2
118-1	A	WOOD	ST		3'-0"	7'-0"	1	HM	PT-10	7/A602	5/A602		13.0	118-1
120-1	D	ALUM	MED-BRZ		3'-0"	7'-0"	SEE ELEV.	ALUM	MED-BRZ	SEE ELEV.	SEE ELEV.	IGL-1	3.0	120-1
120-2	B	WOOD	ST		3'-0"	7'-0"	1	HM	PT-10	7/A602	5/A602	GL-1	12.0	120-2



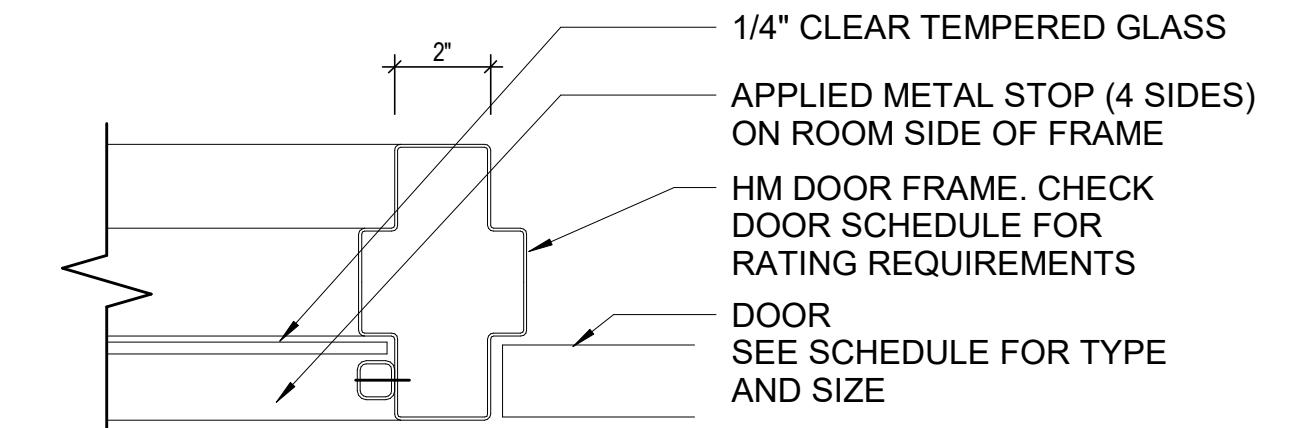
101-1 JAMB DETAIL

SCALE: 1 1/2" = 1'-0"



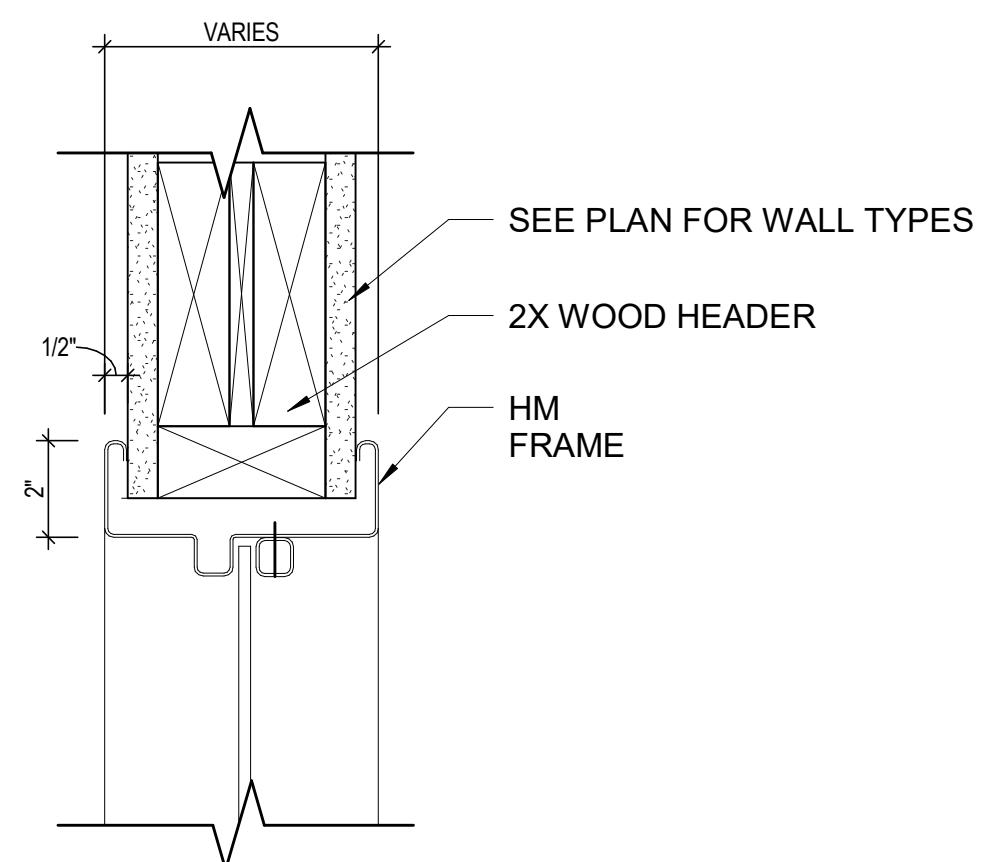
5 HM DOOR HEAD DETAIL

SCALE: 3" = 1'-0"



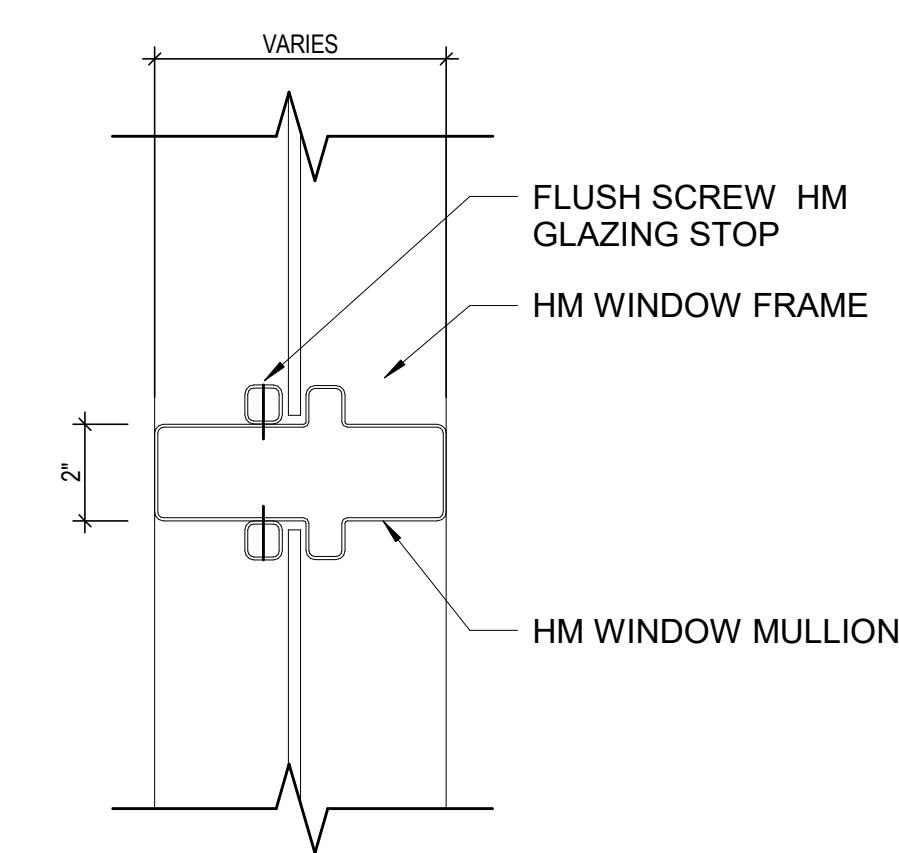
6 HM DOOR W/ SIDELITE JAMB DETAIL

SCALE: 3" = 1'-0"



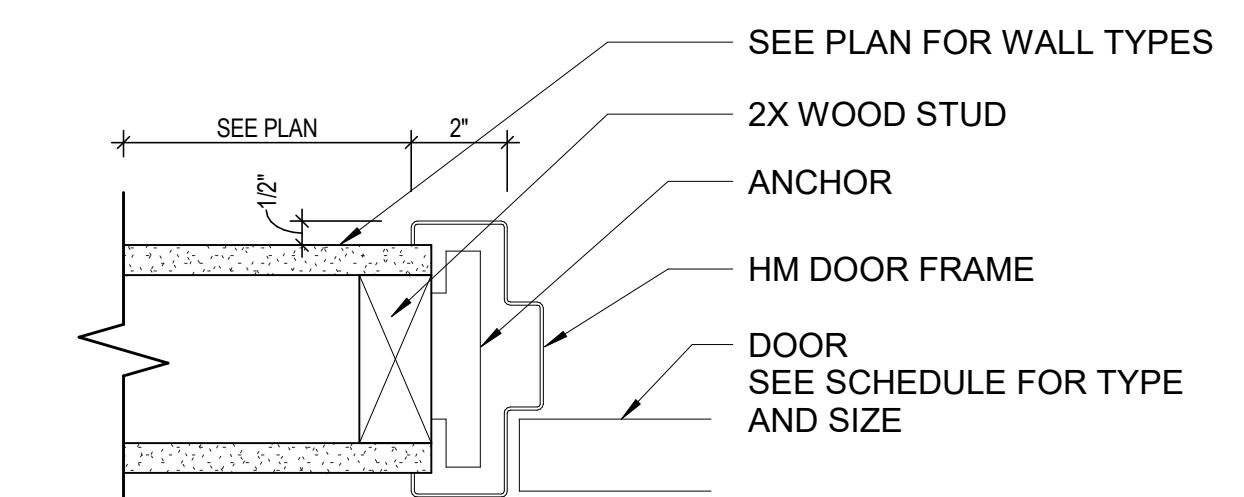
4 HM WINDOW HEAD DETAIL

SCALE: 3" = 1'-0"



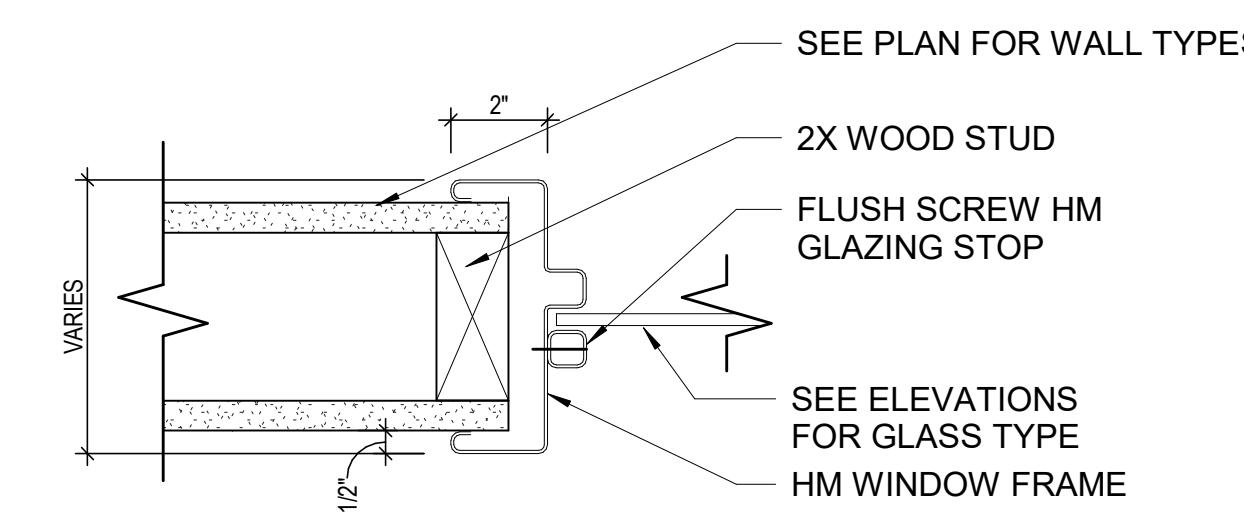
3 HM WINDOW INTERNAL MULLION DETAIL

SCALE: 3" = 1'-0"



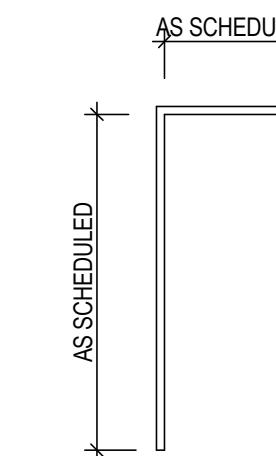
7 HM DOOR JAMB DETAIL

SCALE: 3" = 1'-0"

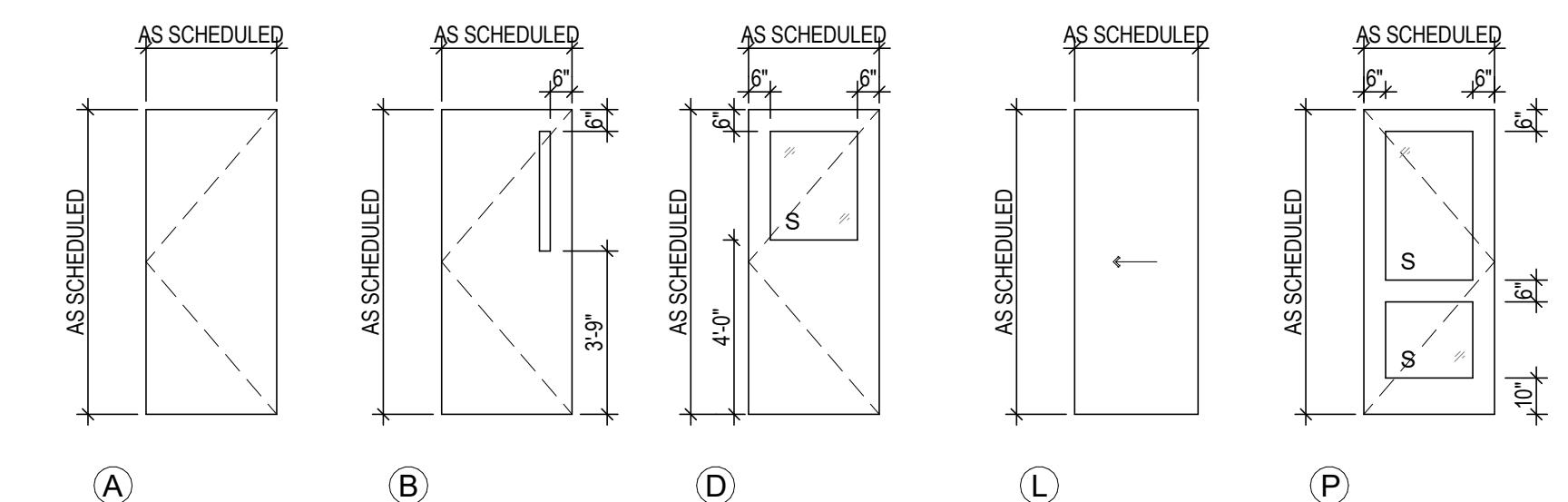


2 HM WINDOW JAMB DETAIL

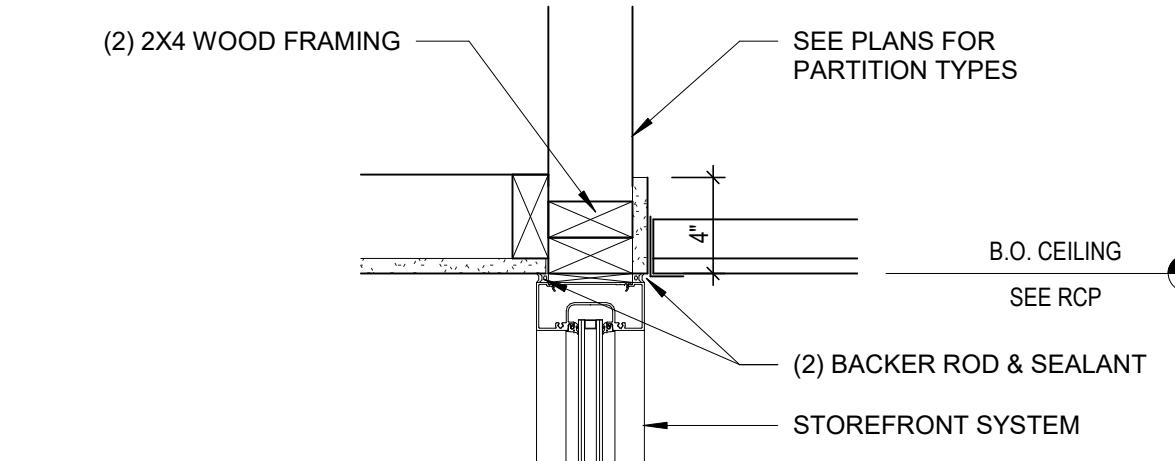
SCALE: 3" = 1'-0"



1 FRAME TYPES

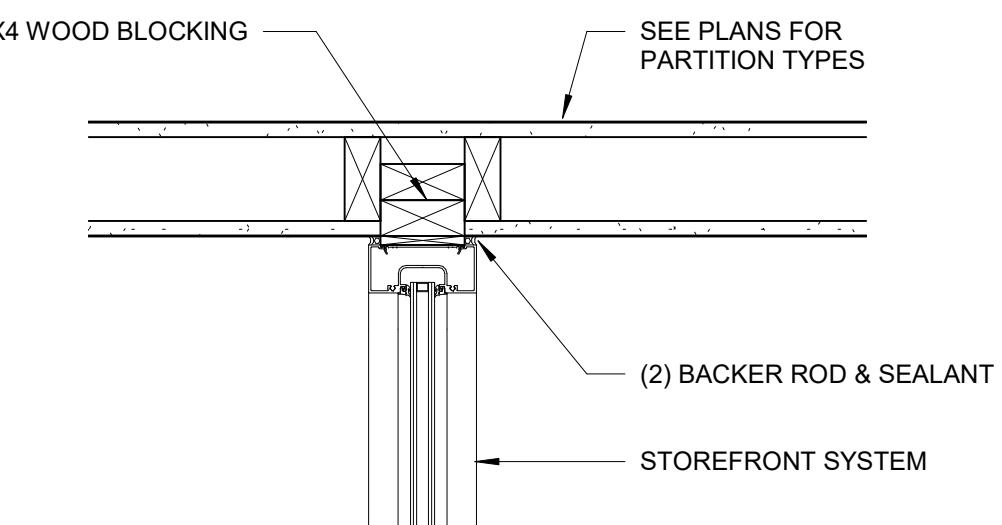


DOOR TYPES



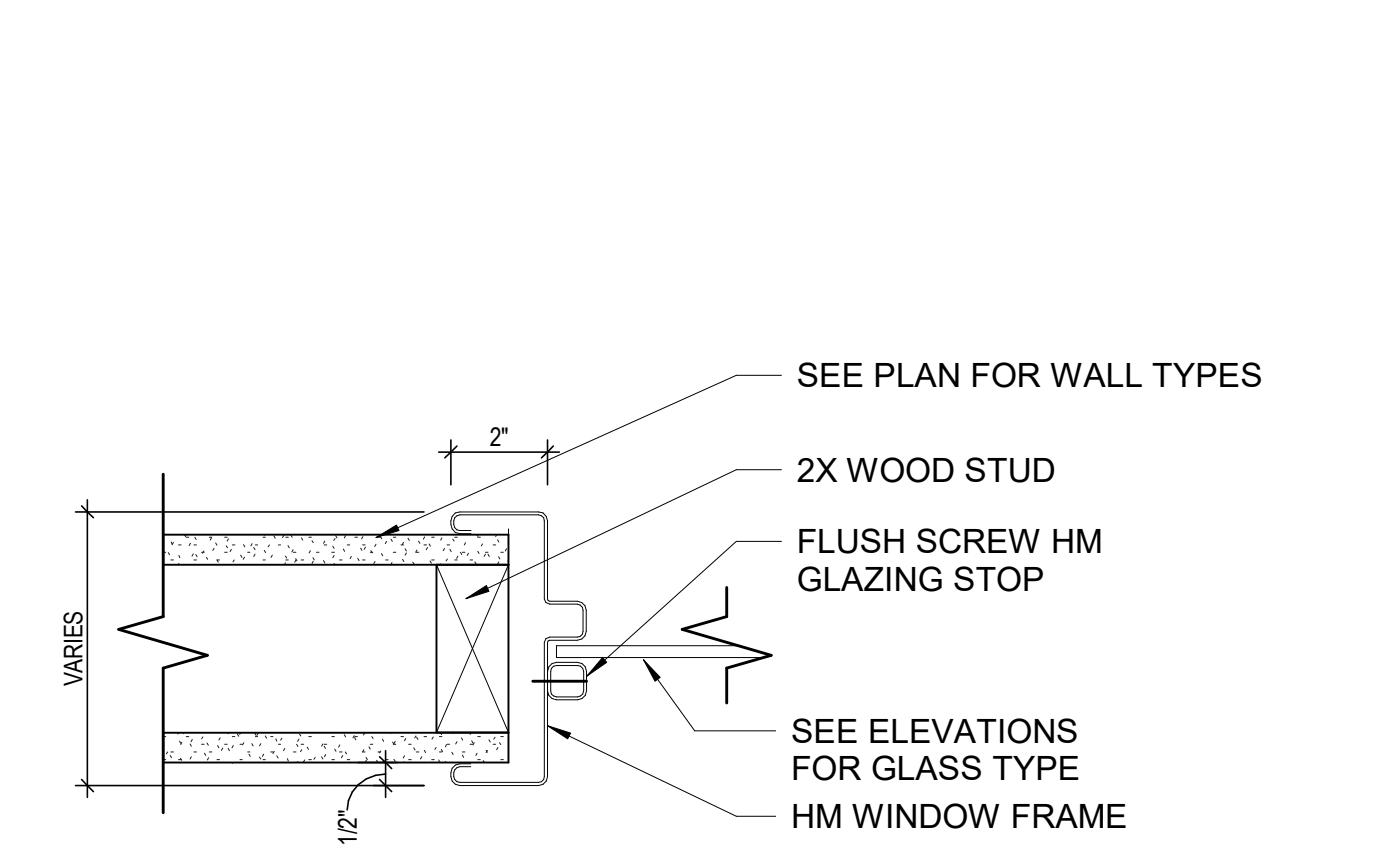
9 VESTIBULE HEAD DETAIL

SCALE: 1 1/2" = 1'-0"



8 VESTIBULE STOREFRONT JAMB

SCALE: 1 1/2" = 1'-0"



1 HM WINDOW SILL DETAIL

SCALE: 3" = 1'-0"

# A602

## GENERAL NOTES - DOORS

- FRAME: REFER TO DOOR DETAILS AND SCHEDULE
- DIMENSIONS: DIMENSIONS ARE NOMINAL - MANUFACTURER PROVIDING THE DOORS TO DETERMINE THE ROUGH OPENINGS EXCEPT THE OPENINGS IN CONCRETE WALLS THAT HAVE BEEN ALREADY SPECIFIED.
- HARDWARE: FOR HARDWARE GROUP SPECIFICATIONS REFER TO THE PROJECT MANUAL UNDER HARDWARE SPECS.
- ELECTRICAL DEVICES SUCH AS MAG. LOCKS, CARD READERS AND ALARM SYSTEMS BEING PART OF THE DOOR FUNCTION ARE INCLUDED AS PART OF THE ELECTRICAL PLANS AND THE HARDWARE GROUPS.
- GLAZING: GLAZING AS NOTED ON DOOR TYPE SCHEDULE
- FINISH: SEE DOOR SCHEDULE FOR DOOR AND FRAME FINISH

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W CEDARHOLM ST & N MAIN ST  
CRESTON, IL 60113

Creston-Dement Public Library  
Kristi Scherer  
107 S MAIN ST  
CRESTON, IL 60113

PROJECT NUMBER 182836

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ISSUED FOR:  
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## DOOR SCHEDULE & DETAILS

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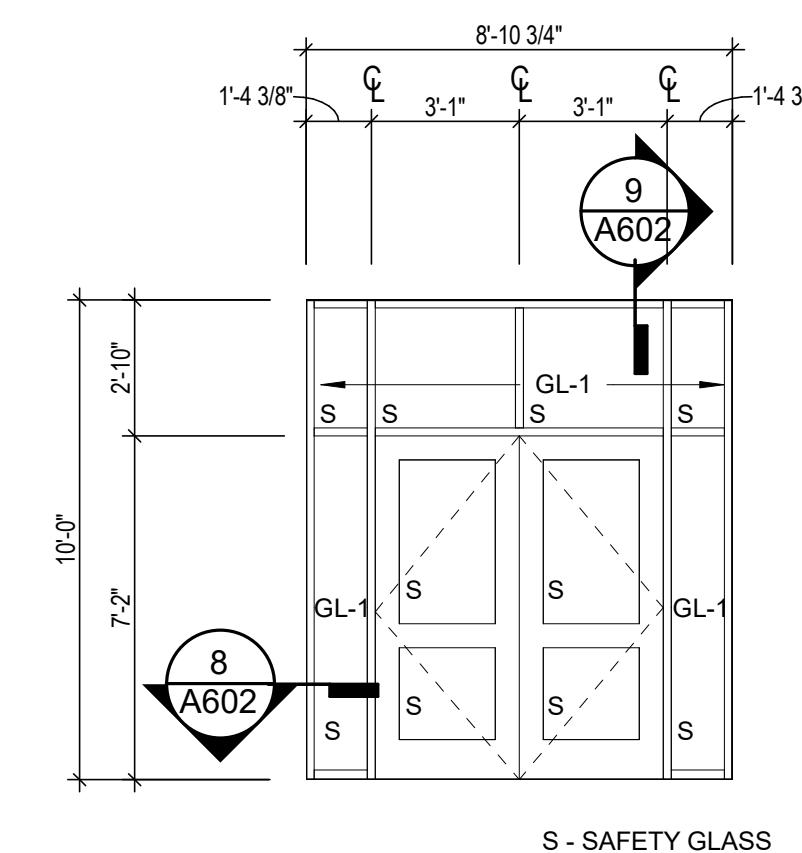
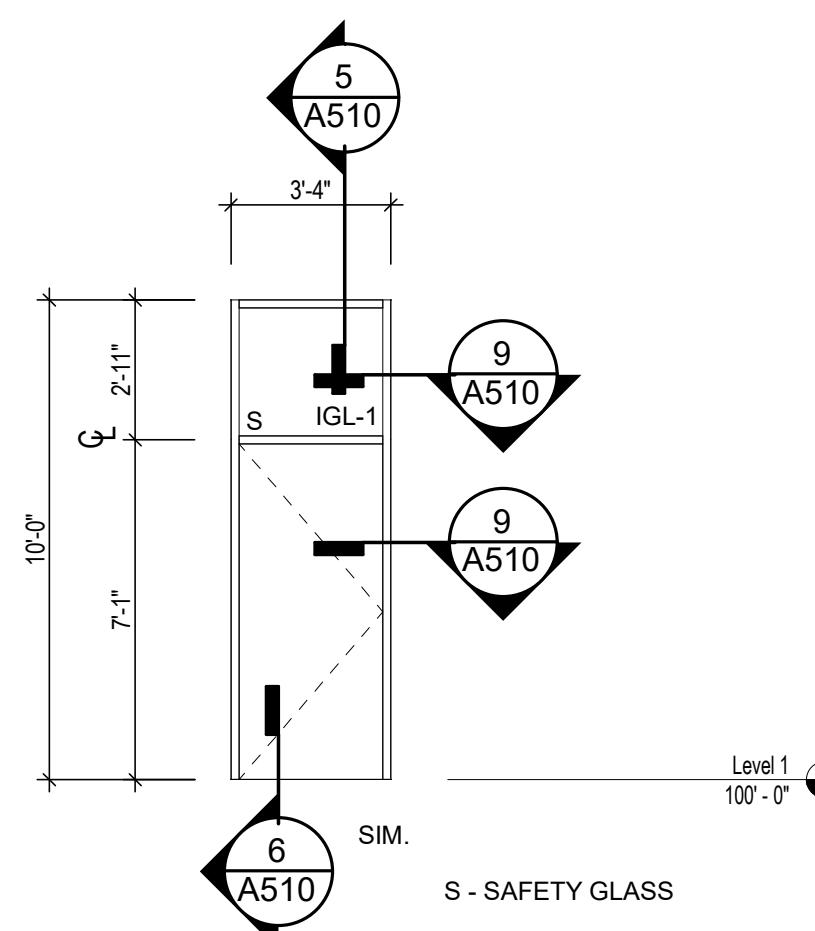
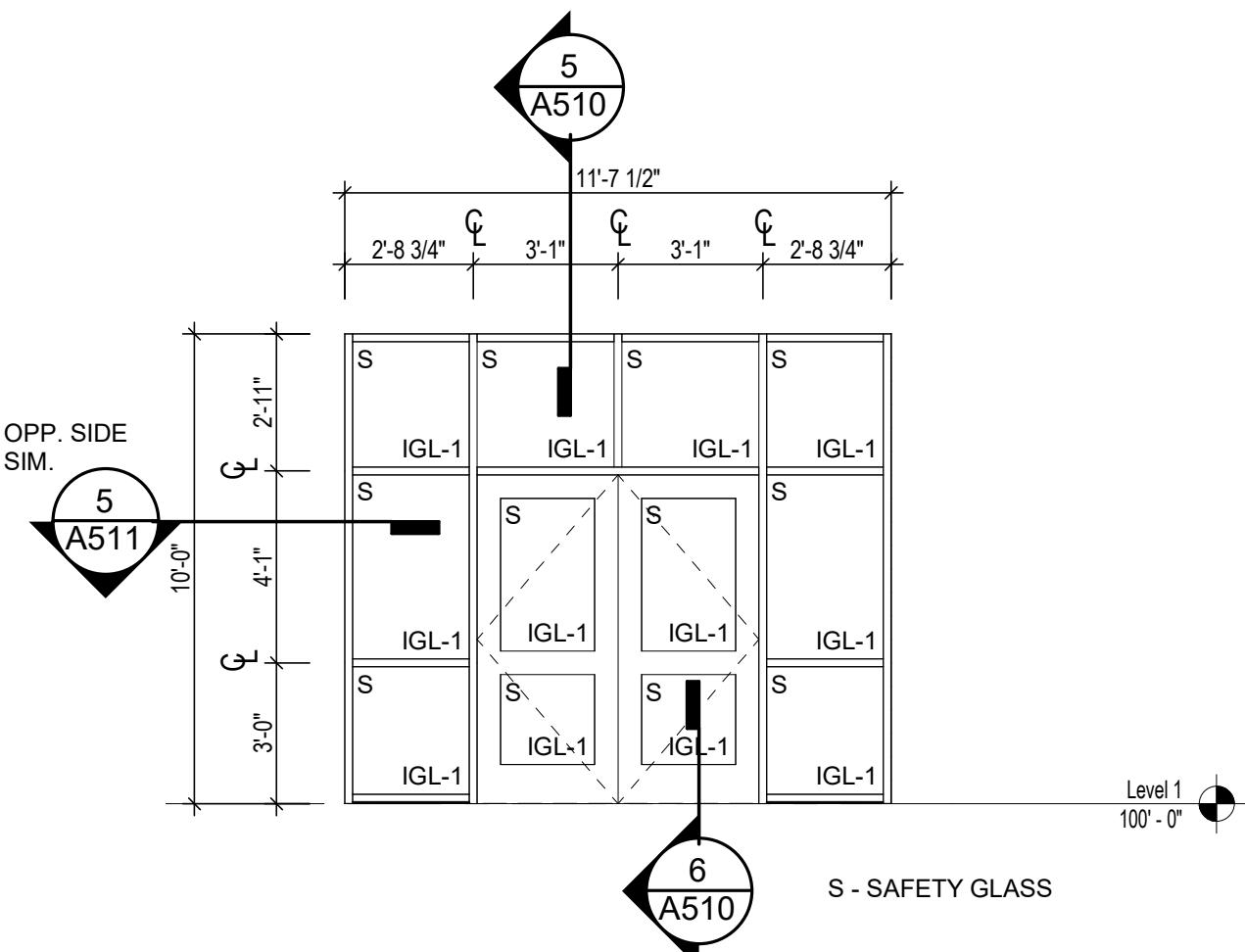
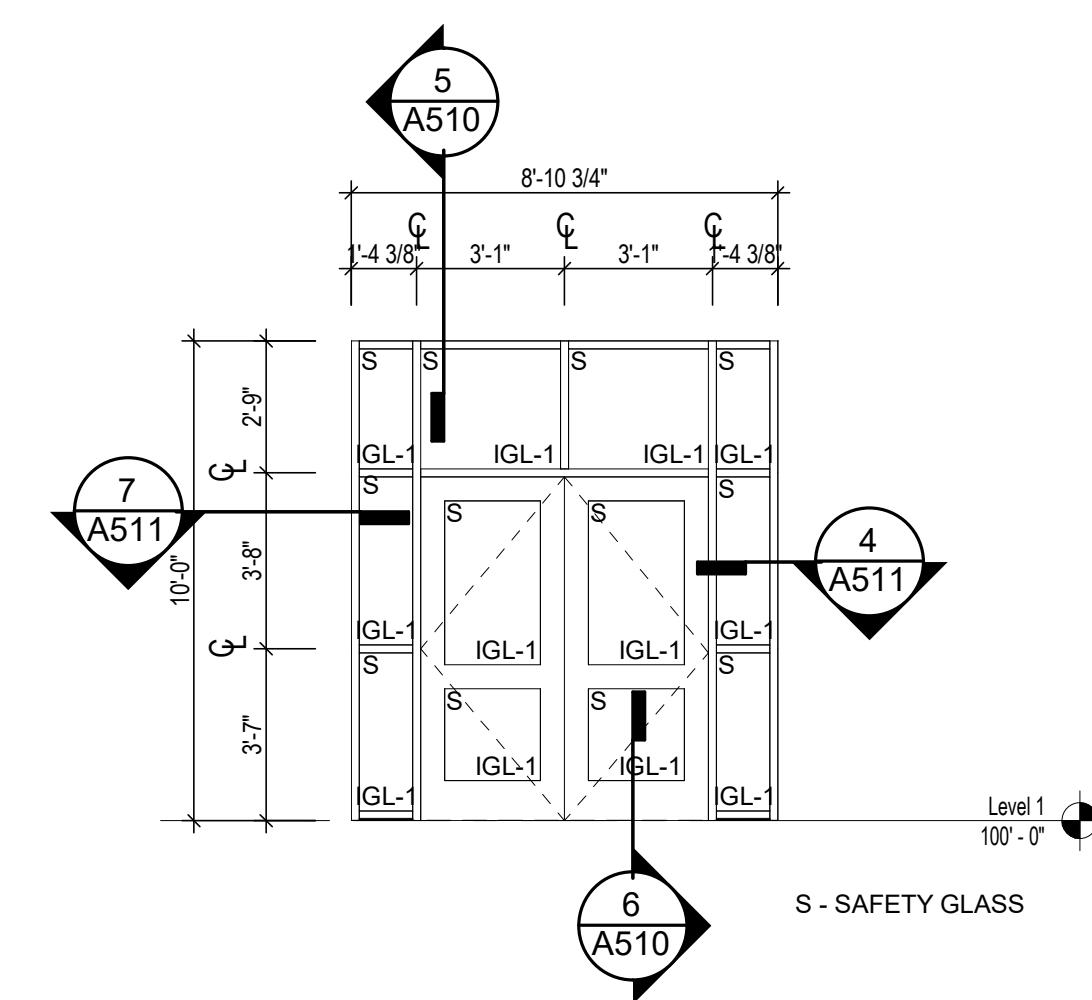
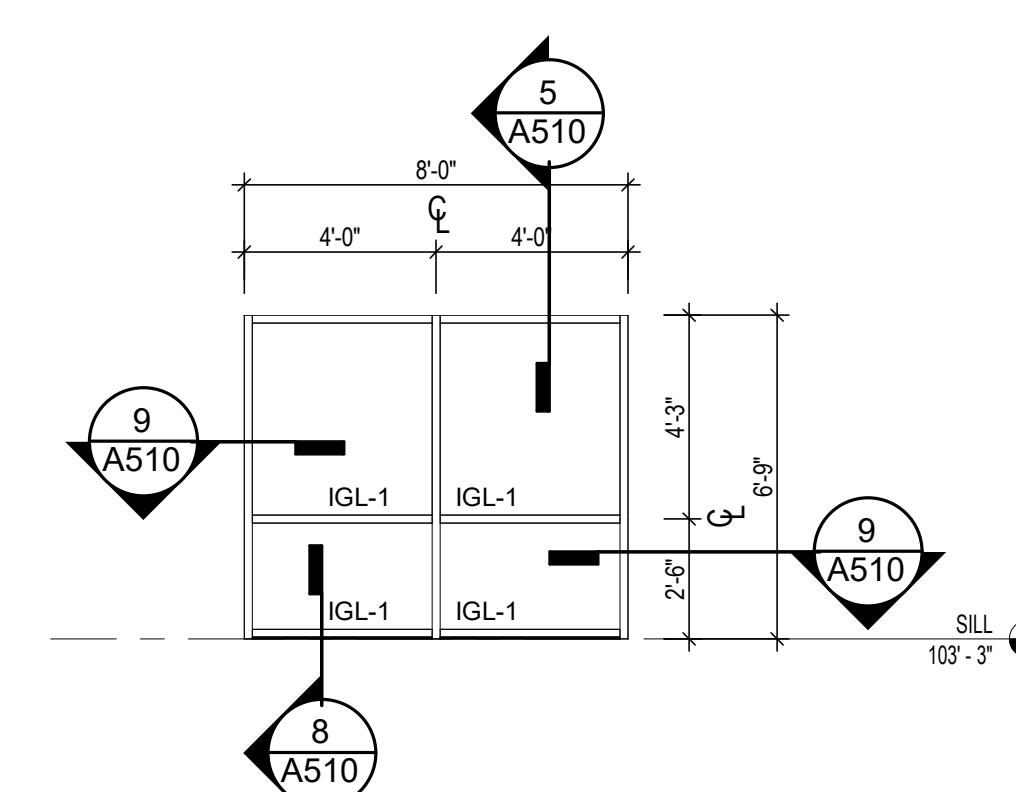
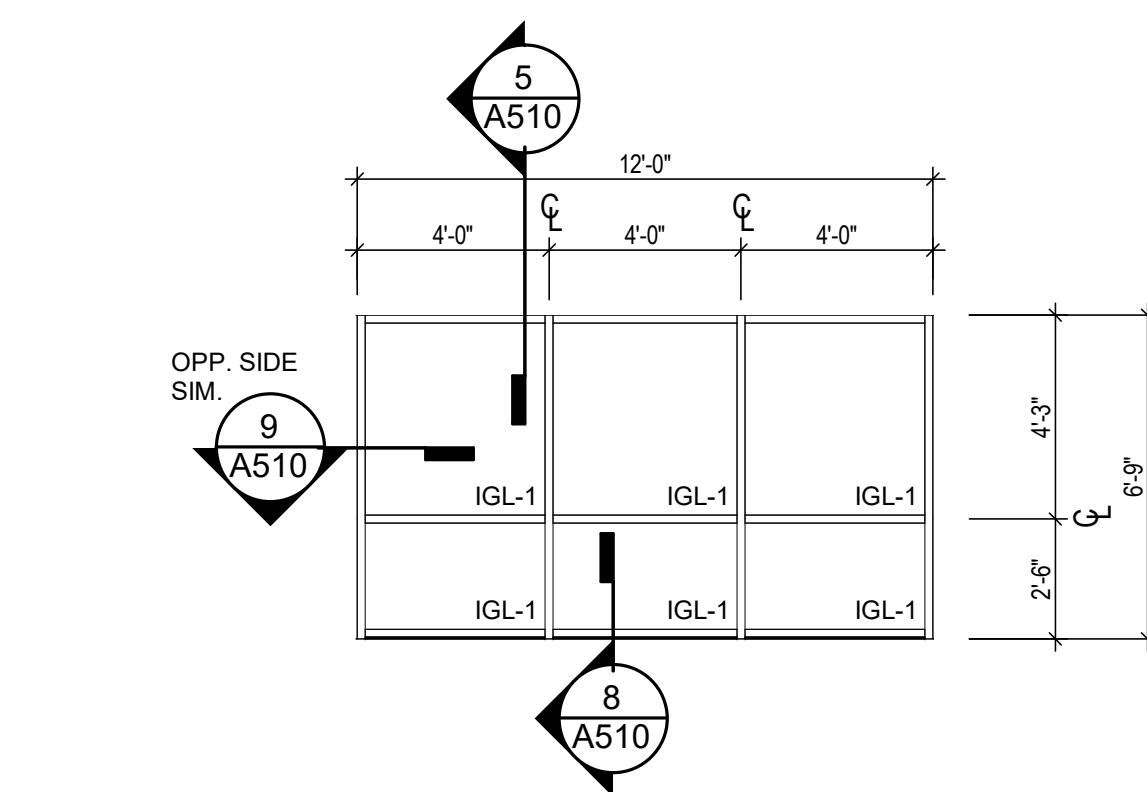
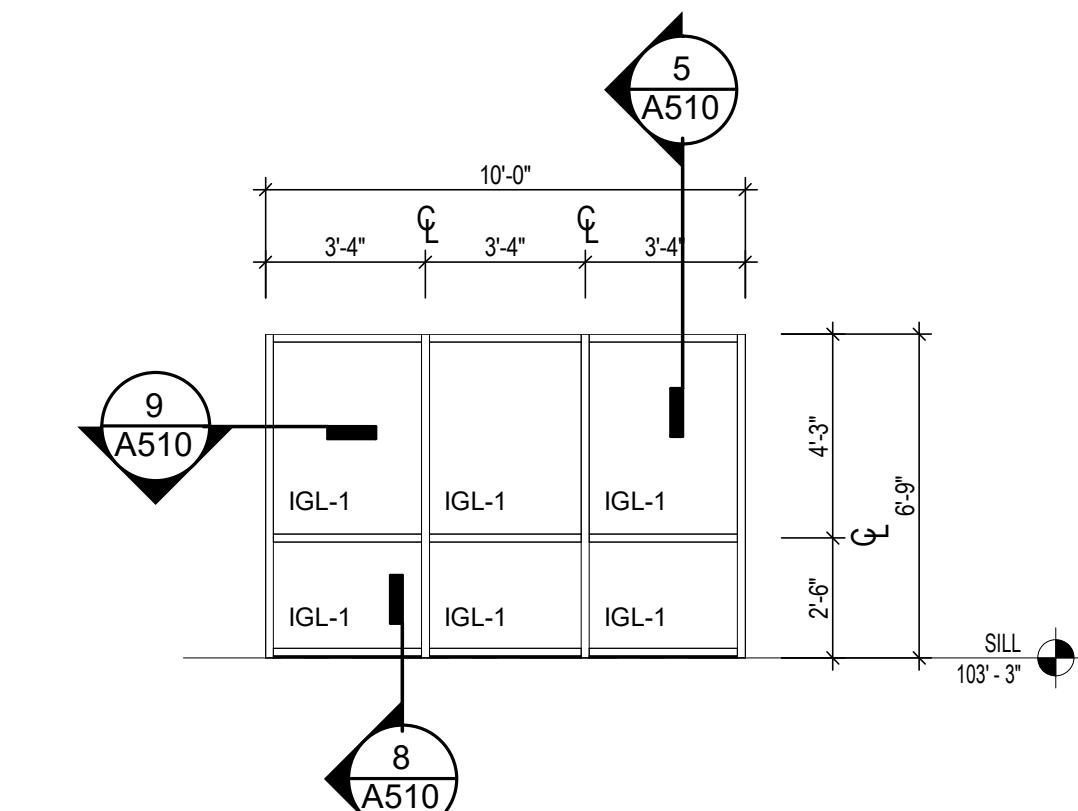
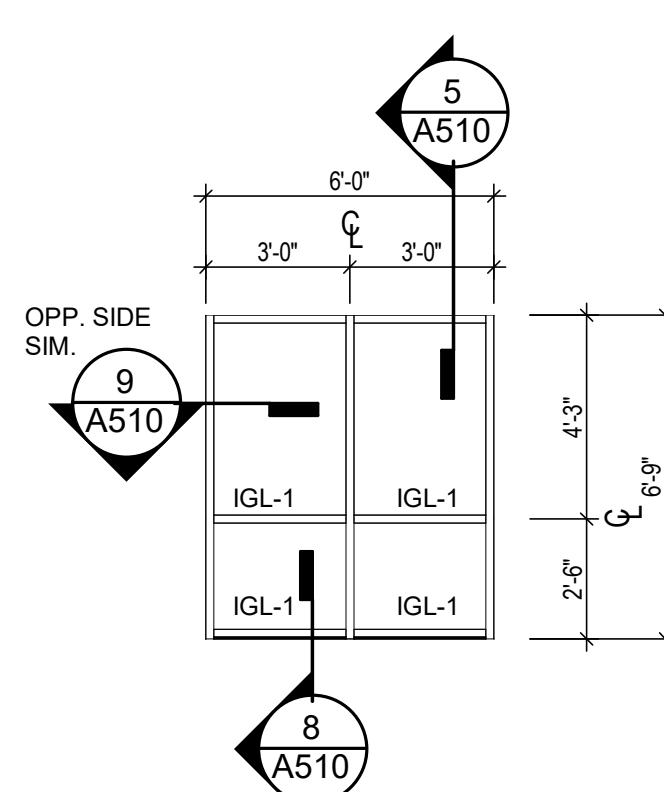
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**8 ELEVATION J**  
 SCALE: 1/4" = 1'-0"

**7 ELEVATION H**  
 SCALE: 1/4" = 1'-0"

**6 ELEVATION G**  
 SCALE: 1/4" = 1'-0"

**5 ELEVATION F**  
 SCALE: 1/4" = 1'-0"

**4 ELEVATION D**  
 SCALE: 1/4" = 1'-0"

**3 ELEVATION C**  
 SCALE: 1/4" = 1'-0"

**2 ELEVATION B**  
 SCALE: 1/4" = 1'-0"

**1 ELEVATION A**  
 SCALE: 1/4" = 1'-0"

**EXTERIOR  
STOREFRONT  
ELEVATIONS**
DRAWN BY \_\_\_\_\_  
Author \_\_\_\_\_CHECKED BY \_\_\_\_\_  
Checker \_\_\_\_\_
**A610**

RM #	ROOM NAME	FLOORS	BASE	WALL FINISH				CEILING	REMARKS	RM #
		FINISH	FINISH	NORTH	EAST	SOUTH	WEST	FINISH		
				FINISH	FINISH	FINISH	FINISH	FINISH		
100	VESTIBULE	MAT-1	RB-1	PT-1	-	PT-1	-	GWB,PT-9		100
101	FOYER	CT-1	RB-1	PT-1, PT-3,PT-5	PT-1	PT-1	PT-1	ACT-1,GWB, PT-9		101
102	COMMUNITY ROOM	LVT-1	RB-1	PT-7	PT-1	PT-7,PT-5	PT-1	ACT-1		102
102A	STORAGE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		102A
102B	STORAGE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		102B
103	JC	SC	RB-1	PT-8,FRP-1	PT-8,FRP-1	PT-8	PT-8	ACT-3		103
104	FRIENDS STORAGE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		104
105	RESTROOM LOBBY	CT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		105
106	MEN	CT-2	CTB-1	CT-3, CT-4,PT-8	CT-3,CT-4	CT-3,CT-4	PT-8	ACT-3		106
107	WOMEN	CT-2	CTB-1	CT-3, CT-4,PT-8	PT-8	CT-3,CT-4	CT-3,CT-4	ACT-3		107
108	ADULT SERVICES	CPT-1,CPT-2	RB-1	PT-2	PT-1	PT-1	PT-1	ACT-1,GWB, PT-9		108
109	STUDY ROOM	CPT-1	RB-1	PT-1	PT-2	PT-1	PT-1	ACT-2		109
110	STUDY ROOM	CPT-1	RB-1	PT-1	PT-2	PT-1	PT-1	ACT-2		110
111	LARGE STUDY ROOM	CPT-1	RB-1	PT-1	PT-2	PT-1	PT-1	ACT-2		111
113	CHILDREN'S SERVICES	CPT-1,CPT-2	RB-1	PT-1	PT-2	PT-1	PT-1	ACT-1		113
116	SERVICE DESK	CPT-1	RB-1	PT-1,PT-4	PT-1	PT-1	PT-1	ACT-1,GWB, PT-9		116
117	STAFF WORKROOM	LVT-1	RB-1	PT-1	PT-1,PT-5	PT-1,PT-4	PT-1,PT-4	ACT-1		117
118	STORAGE	SC	-	PT-1	PT-1	PT-1	PT-1	OTS-1		118
120	VESTIBULE	MAT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		120
201	MECHANICAL	SC	NONE	NONE	NONE	NONE	NONE	OTS-1		201

FINISH LEGEND	
	CPT-1 CARPET TILE
	CT-1 CERAMIC TILE PLANK
	CPT-2 CARPET TILE
	CT-2 CERAMIC TILE
	LVT-1 LUXURY VINYL TILE
	SC SEALED CONCRETE
	MAT-1 WALK-OFF MAT TILE

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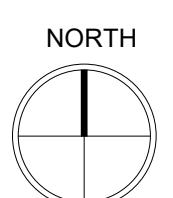
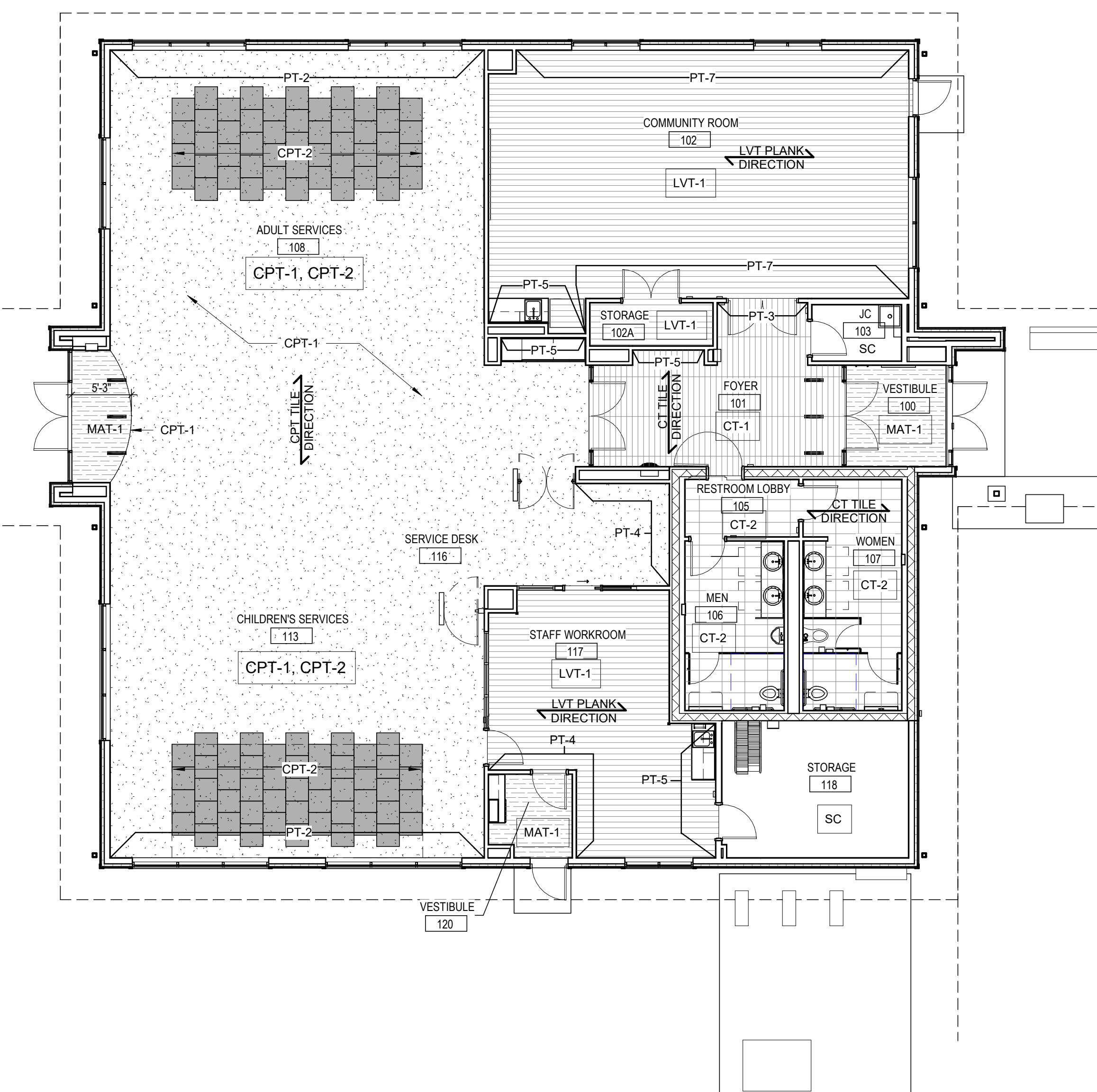
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## FINISH FLOOR PLAN & SCHEDULE



2 MECHANICAL MEZZANINE LEVEL FINISH PLAN

SCALE: 1/8" = 1'-0"

1 FIRST FLOOR FINISH PLAN

SCALE: 1/8" = 1'-0"

A701

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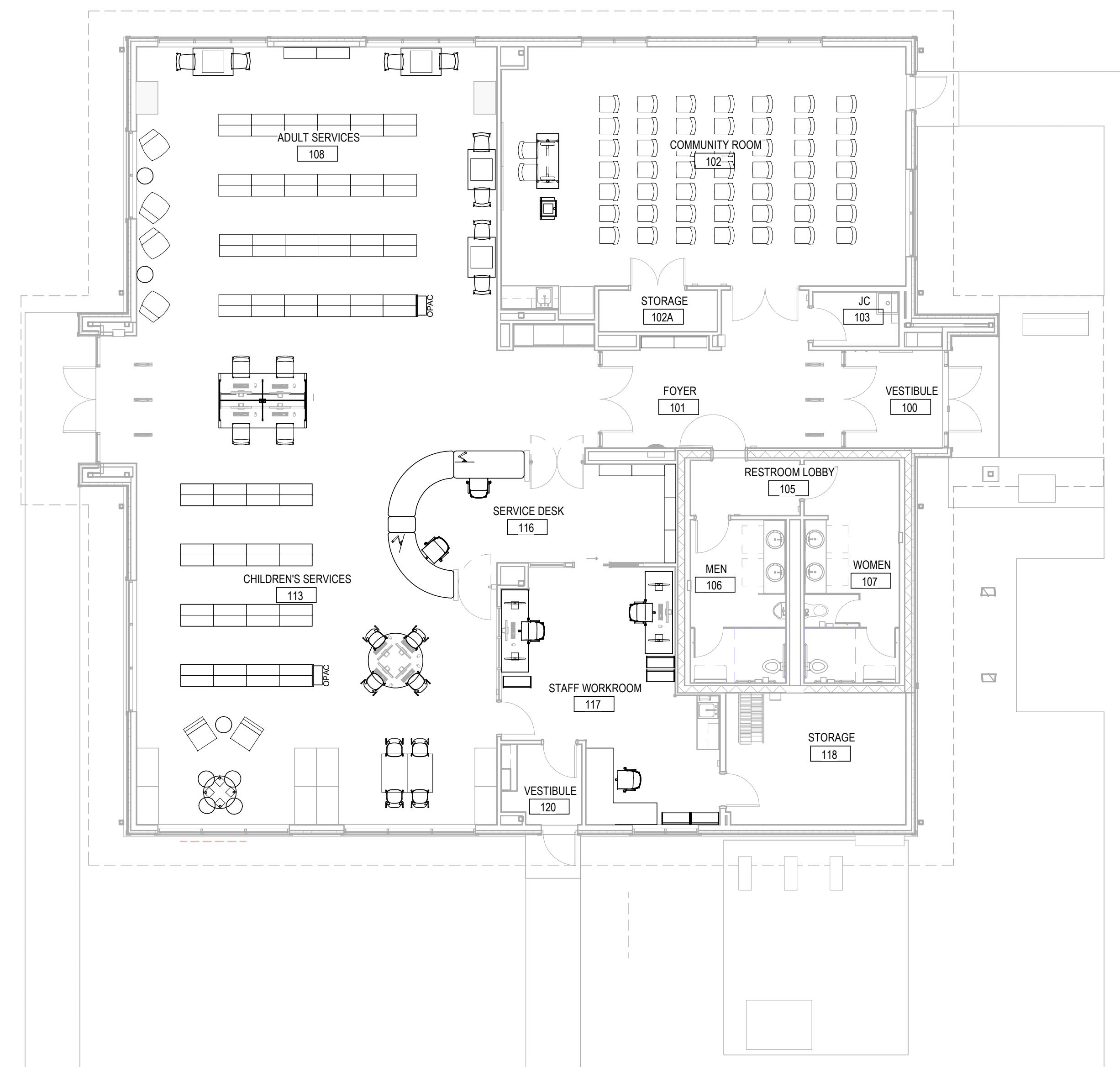
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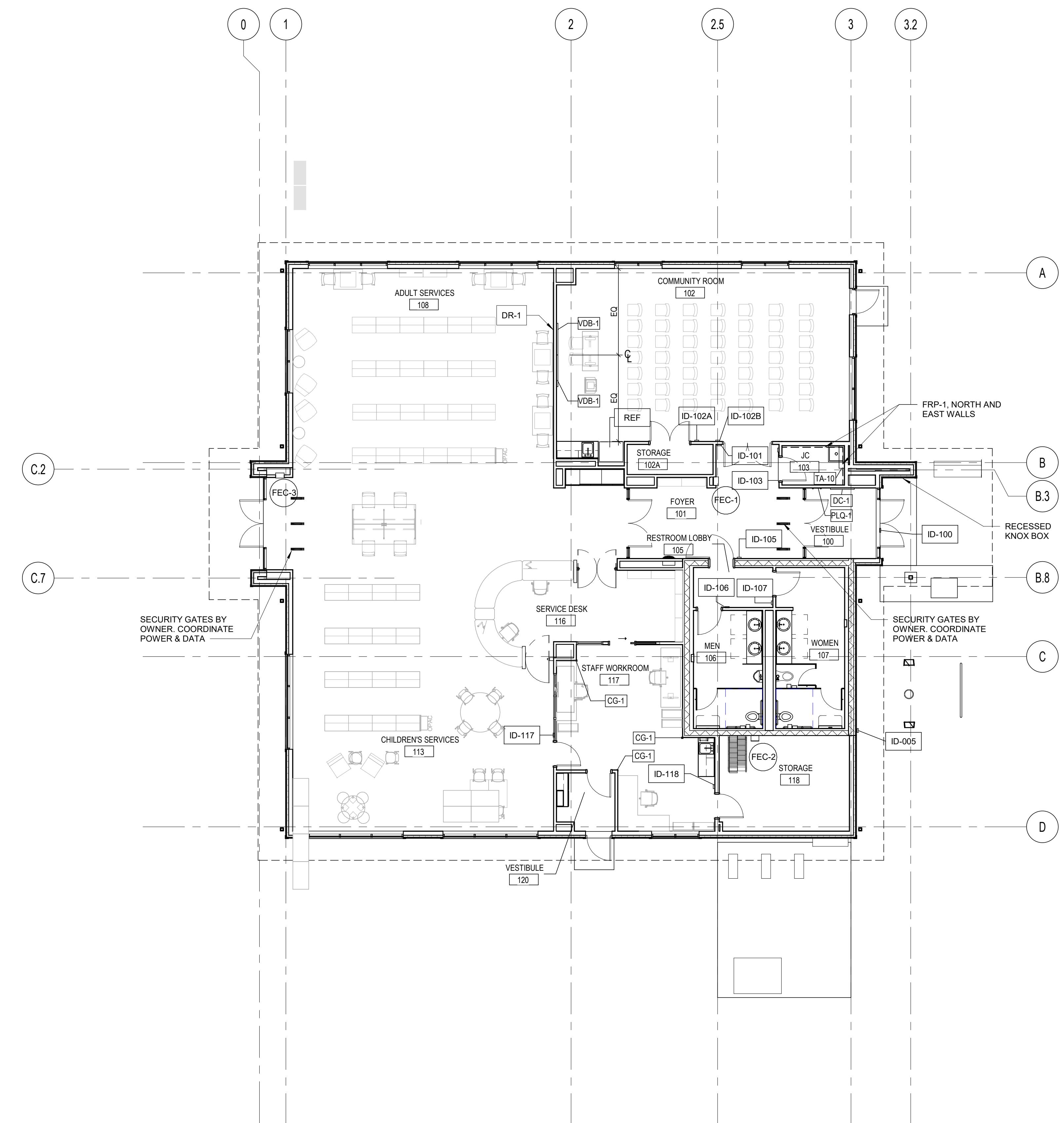
DATE



① **FIRST FLOOR FURNITURE PLAN**  
SCALE: 1/8" = 1'-0"

**FURNITURE  
FLOOR PLAN (FOR  
REFERENCE  
ONLY)**

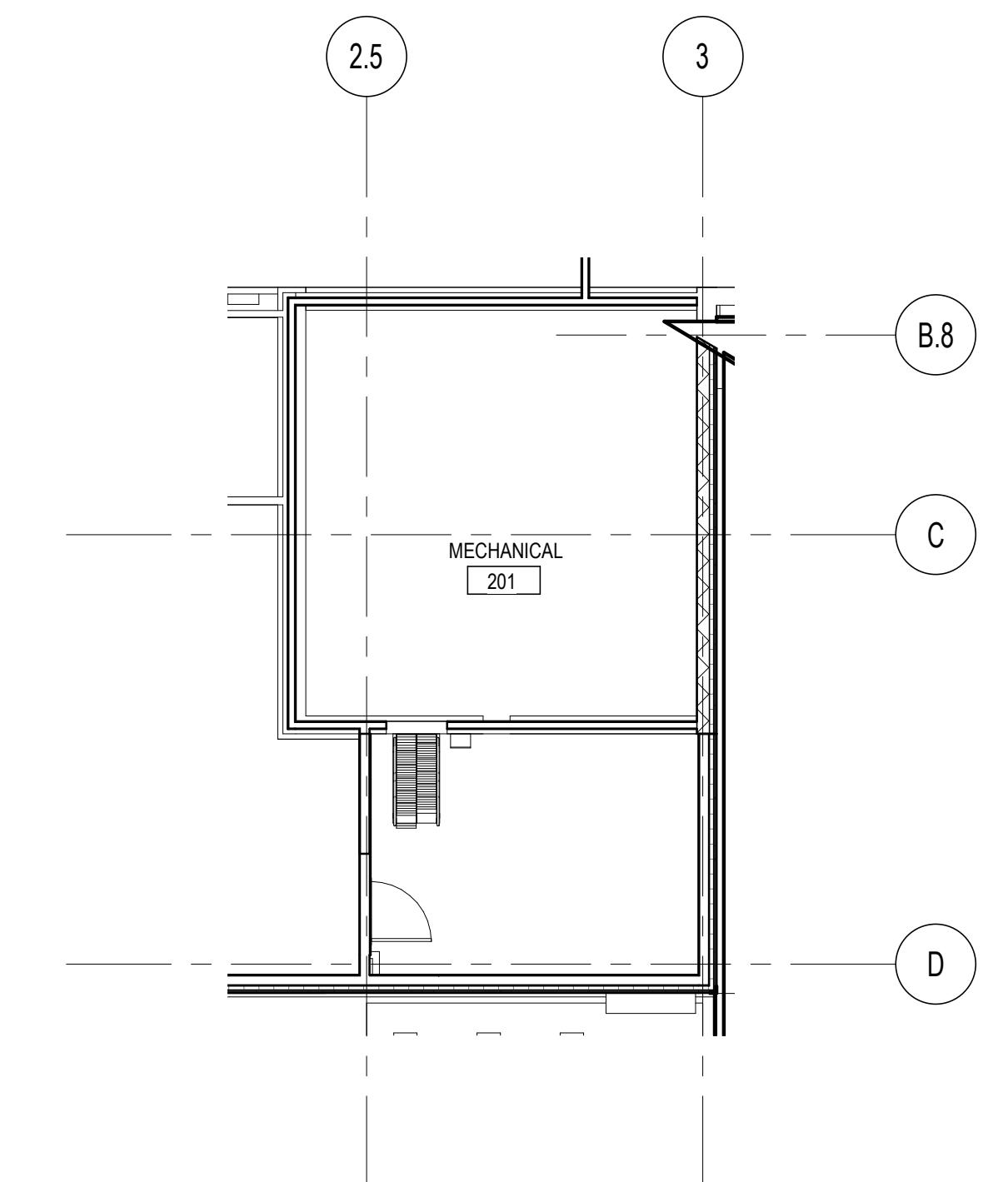
**A721**



1 FIRST FLOOR EQUIPMENT PLAN  
SCALE: 1/8" = 1'-0"

EQUIPMENT LEGEND	
AWP-1	NOT USED.
FRP-1	ABUSE-RESISTANT WALL COVERING
CG-1	CORNER GUARD
DC-1	DISPLAY CASE (60" x 32") - OWNER PROVIDED, CONTRACTOR INSTALLED
DR-1	DISPLAY RAIL
FEC-1	SEMI RECESSED - VERIFY WALL DEPTH IS 6" OR MORE
FEC-2	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FEC-3	RECESSED - VERIFY WALL DEPTH IS 8" OR MORE
ID-#	SIGNAGE - REFER TO SIGNAGE SCHEDULE
VDB-1	VISUAL DISPLAY WHITE BOARD - 48"W X 48"H
PLQ-1	PLAQUE - 20"W X 24"H
REF	REFRIGERATOR - OWNER PROVIDED, CONTRACTOR INSTALLED
MT-1	MONITOR AND MONITOR MOUNT - PROVIDED BY OWNER. REFER TO TECHNOLOGY

1. VISUAL DISPLAY BOARD PLAN DIMENSIONS ARE TO CENTER LINE OF DISPLAY BOARD UNLESS NOTED OTHERWISE.
2. TOILET ACCESSORIES AND METAL TOILET COMPARTMENTS - SEE ENLARGED BATHROOM PLANS FOR FURTHER INFORMATION.
3. PROVIDE WALL BLOCKING AS REQUIRED BEHIND WALL MOUNTED EQUIPMENT. SEE PLANS AND INTERIOR ELEVATIONS FOR FURTHER INFORMATION.
4. MONITORS SHOWN FOR REFERENCE - SEE INTERIOR ELEVATIONS AND A/V DRAWINGS FOR FURTHER INFORMATION. PROVIDE WALL BLOCKING BEHIND MONITORS.
5. PROVIDE WALL BLOCKING AS REQ'D BEHIND WALL MOUNTED SPECIALTY EQUIPMENT AND MILLWORK.



2 MEZZANINE EQUIPMENT LEVEL  
SCALE: 1/8" = 1'-0"

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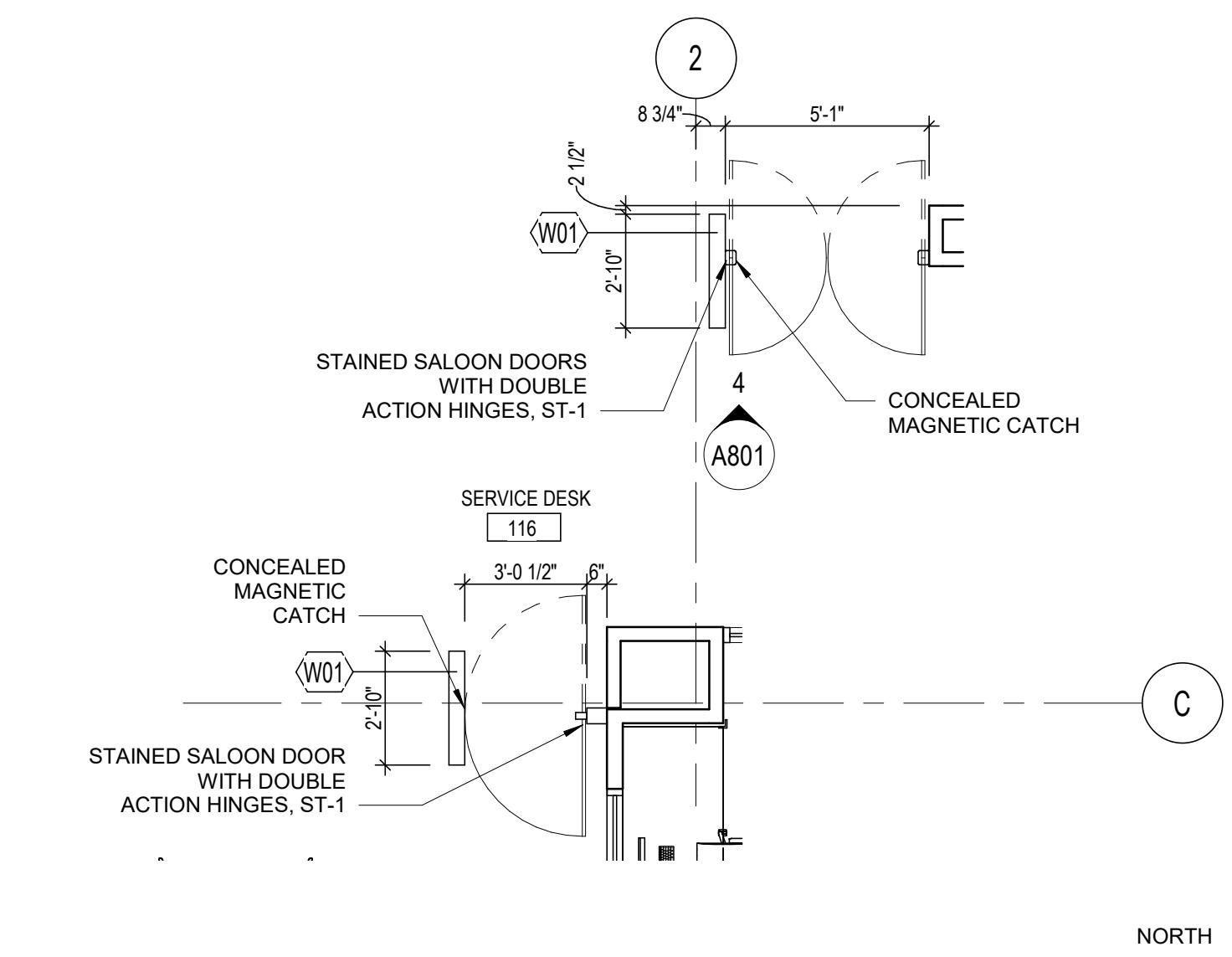
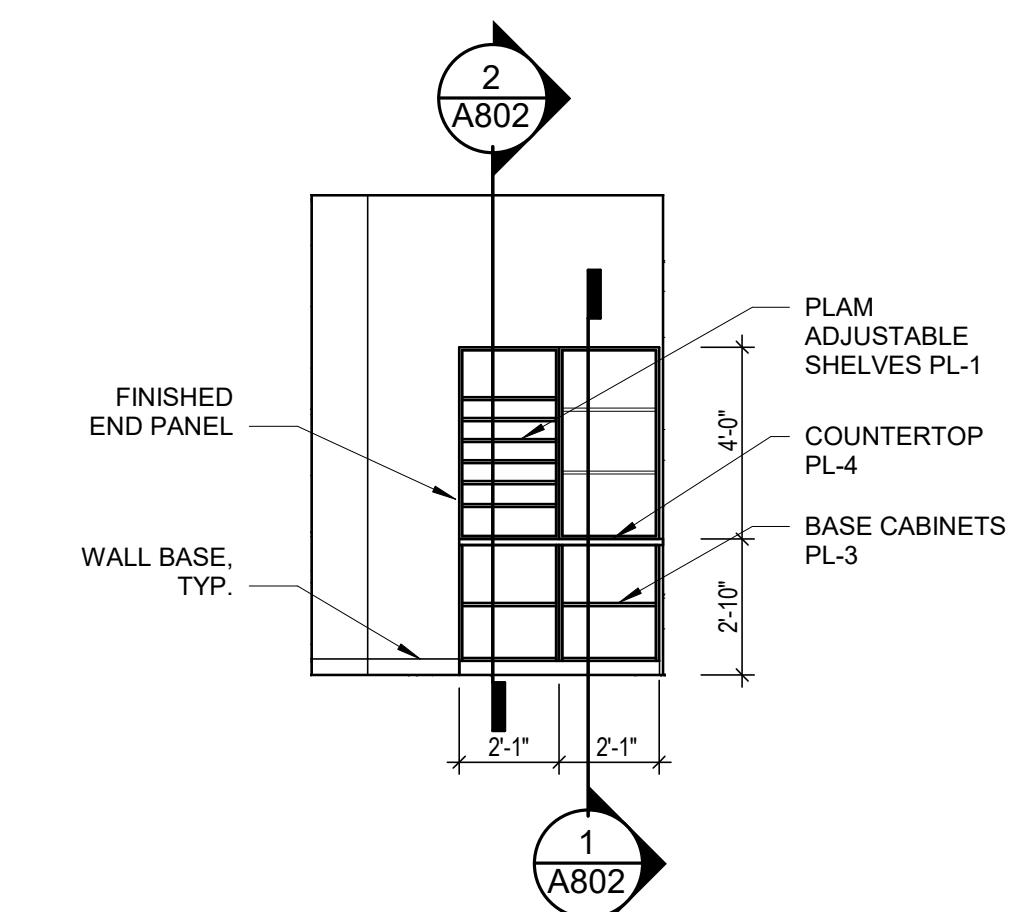
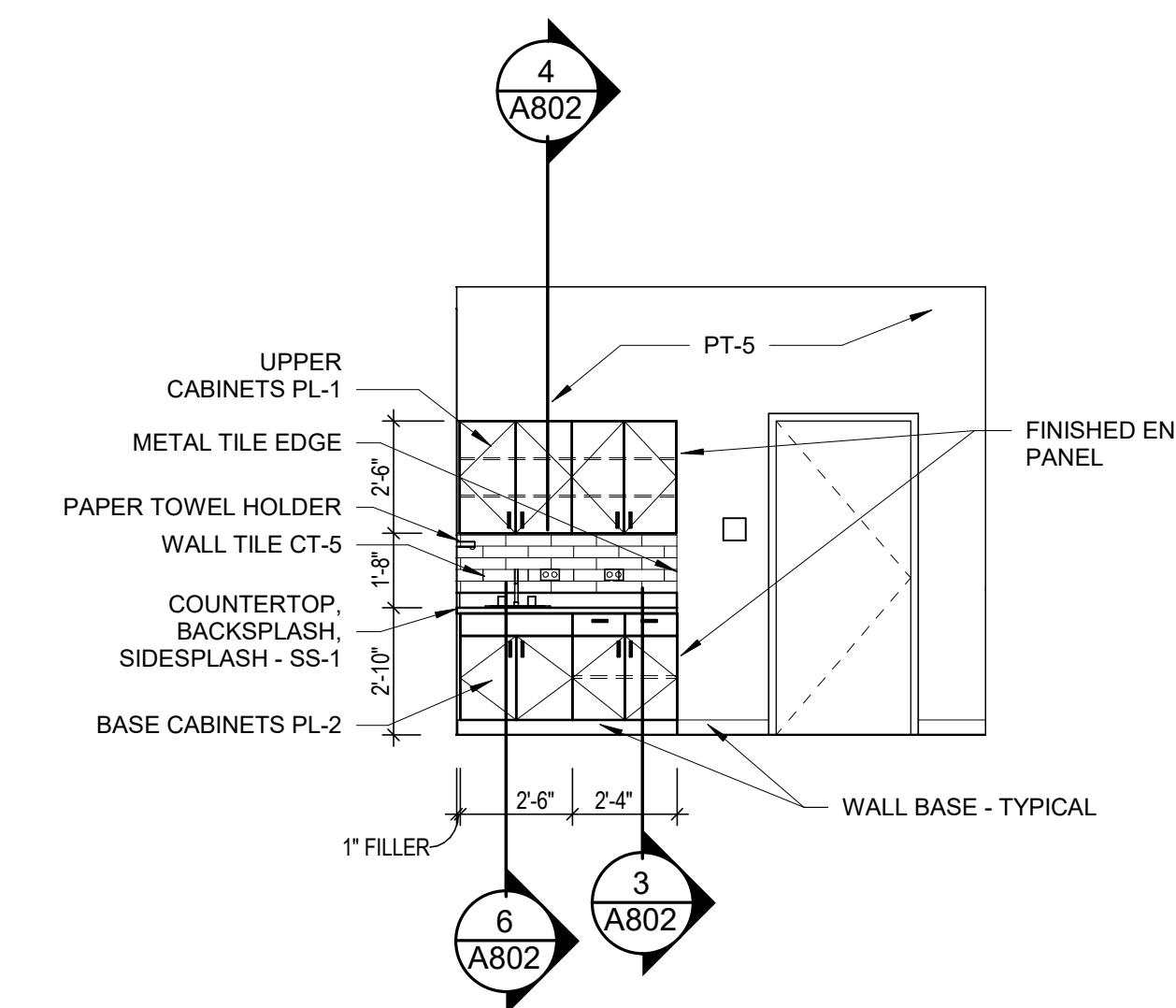
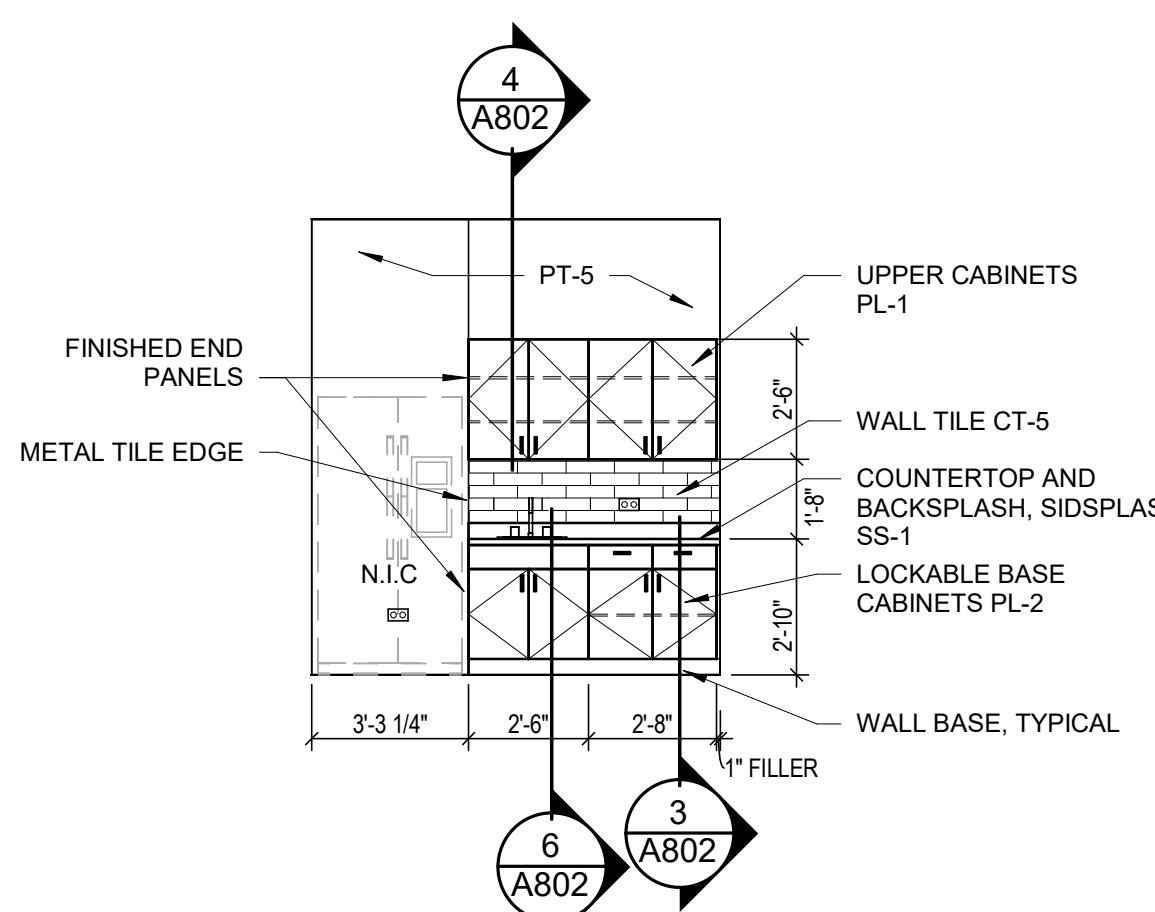
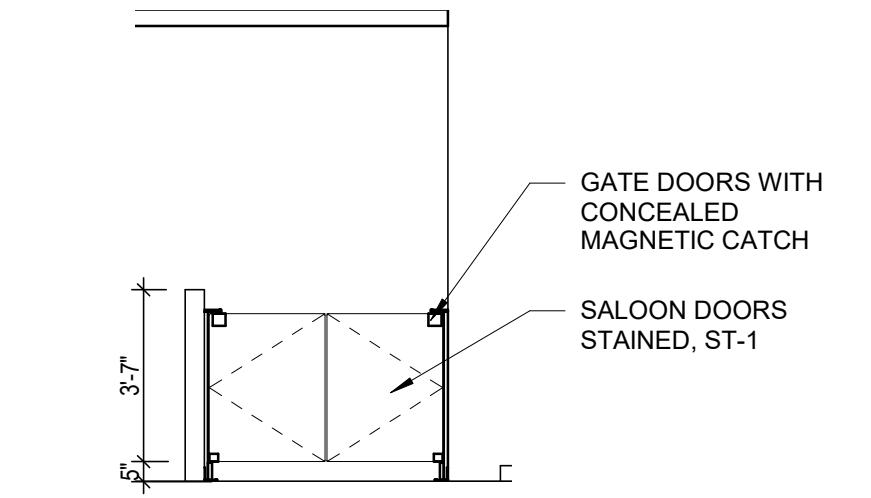
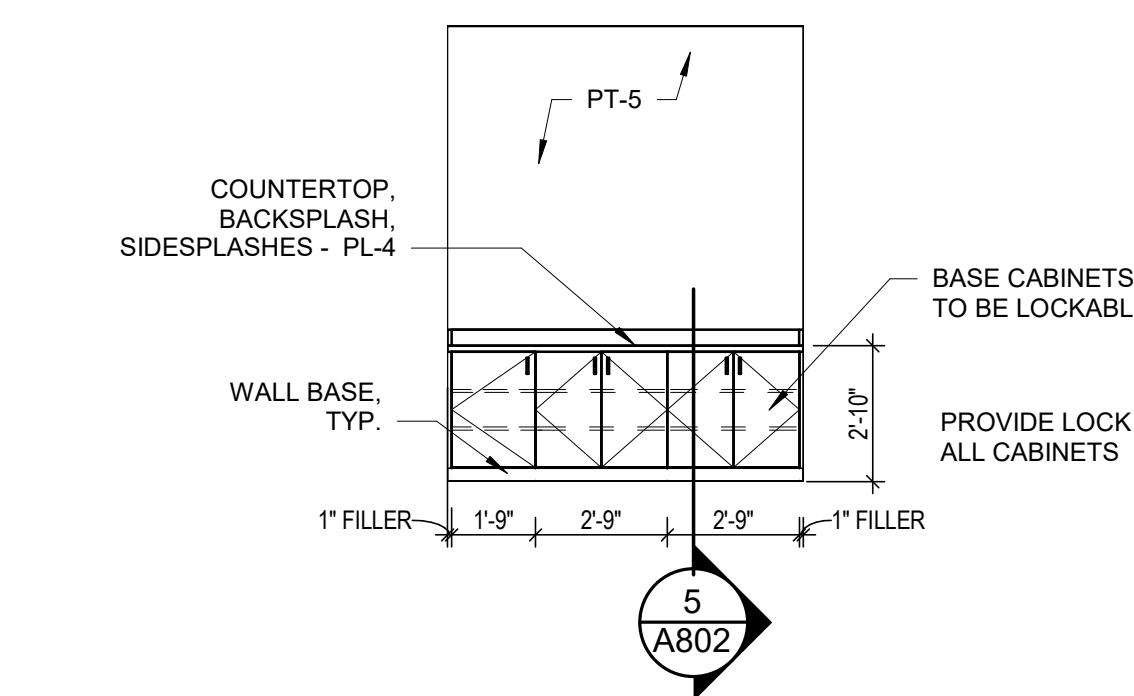
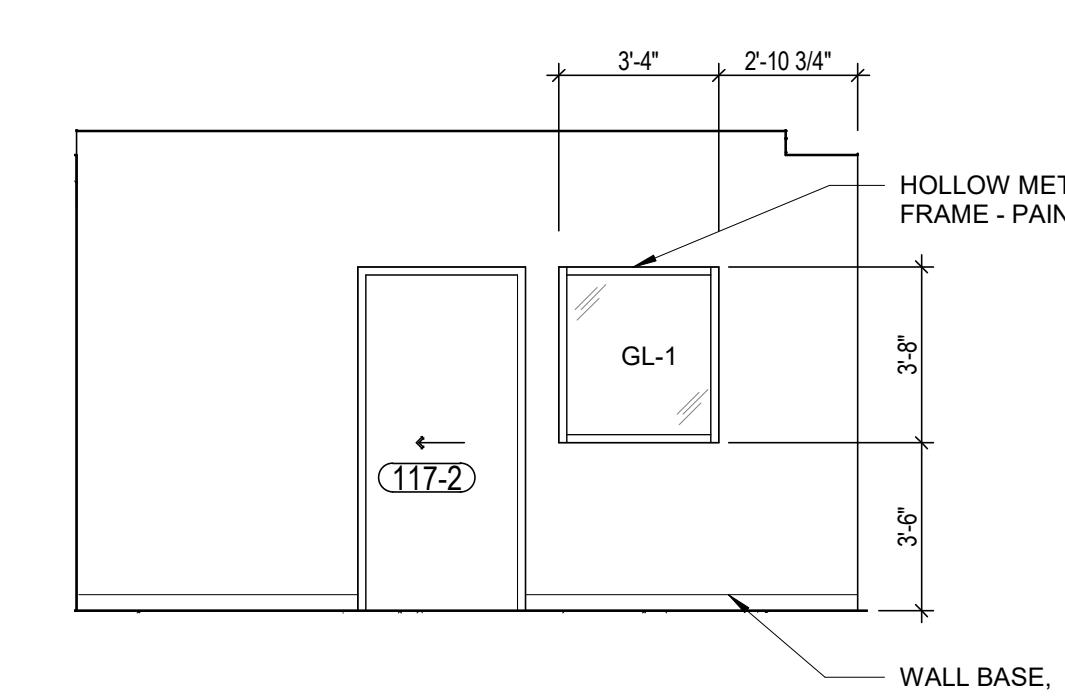
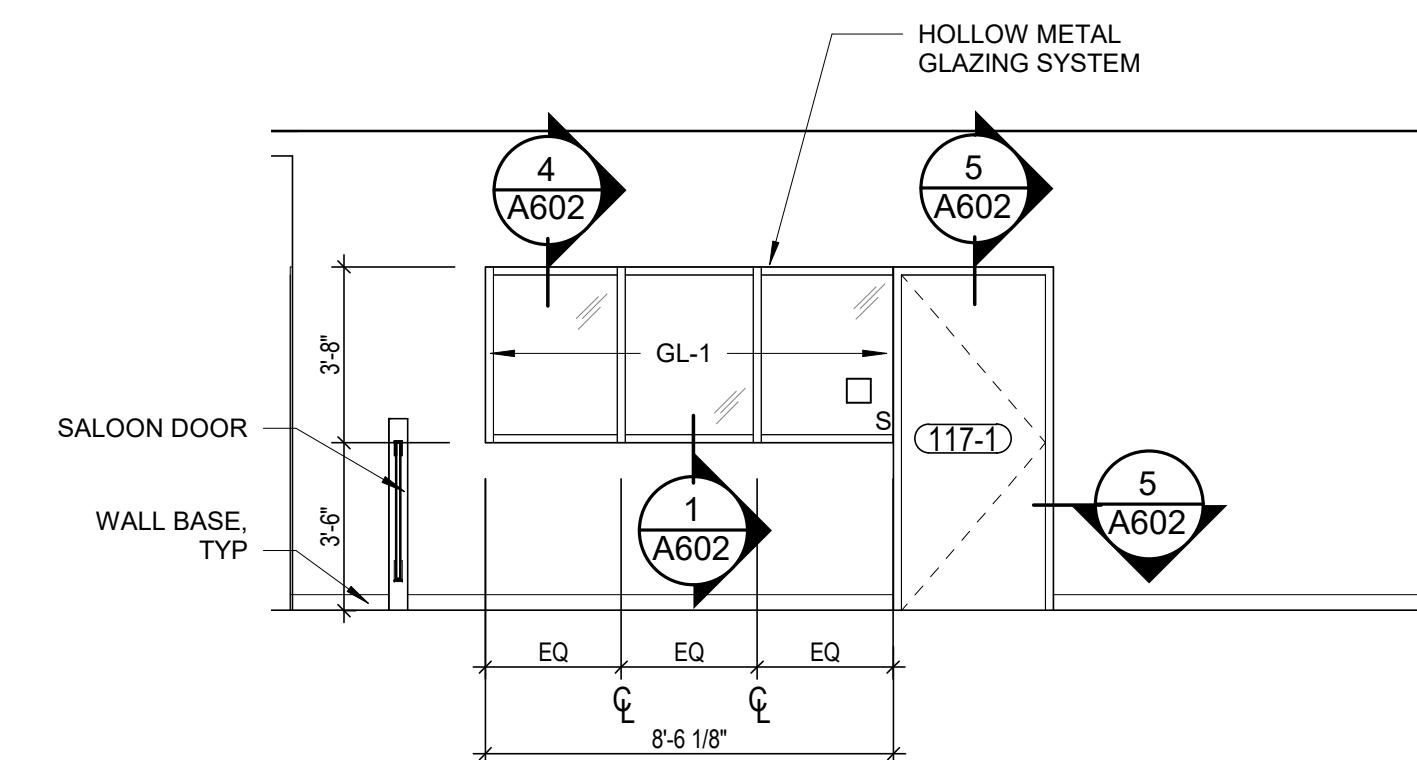
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## EQUIPMENT FLOOR PLAN

A731



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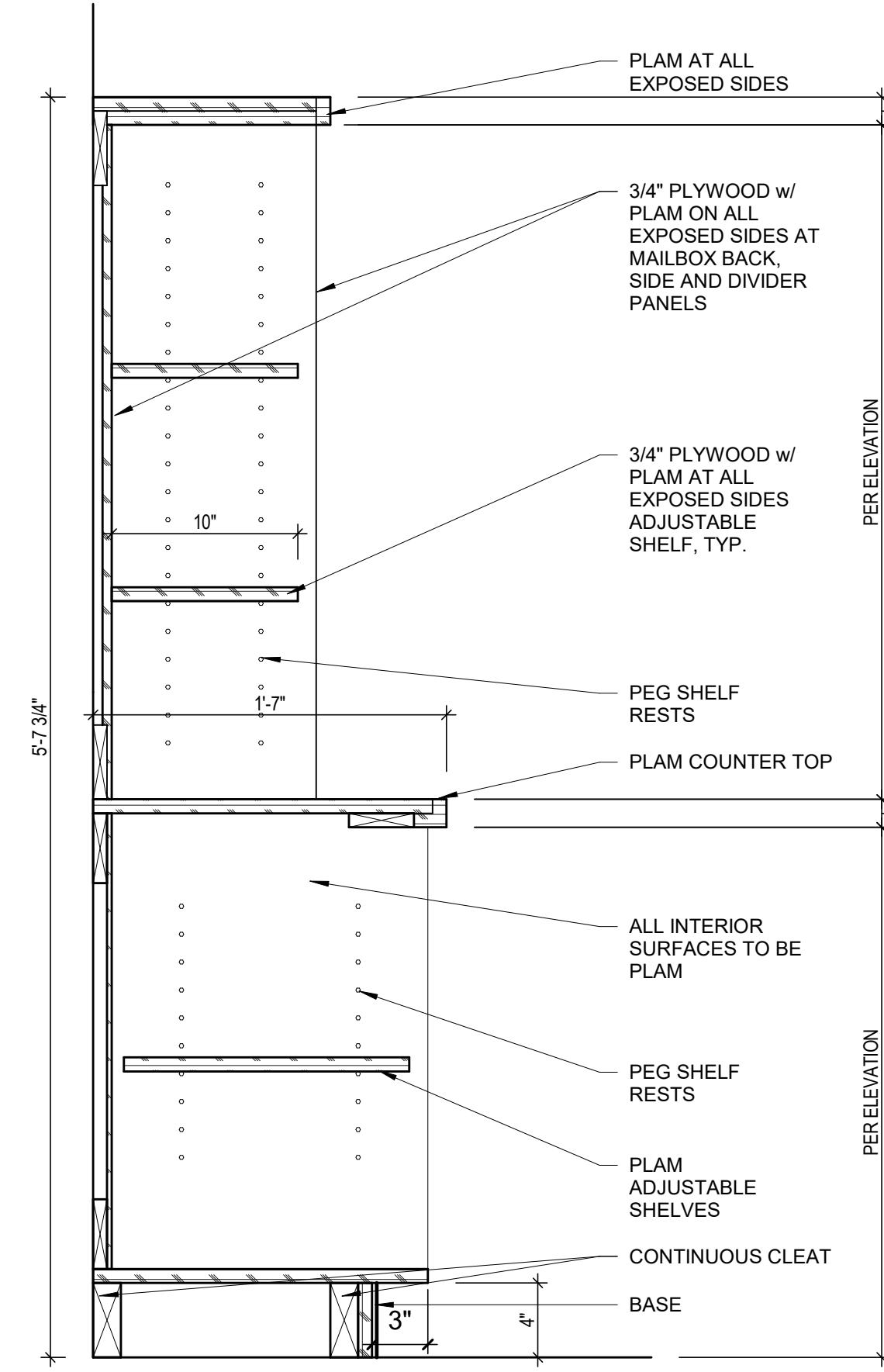
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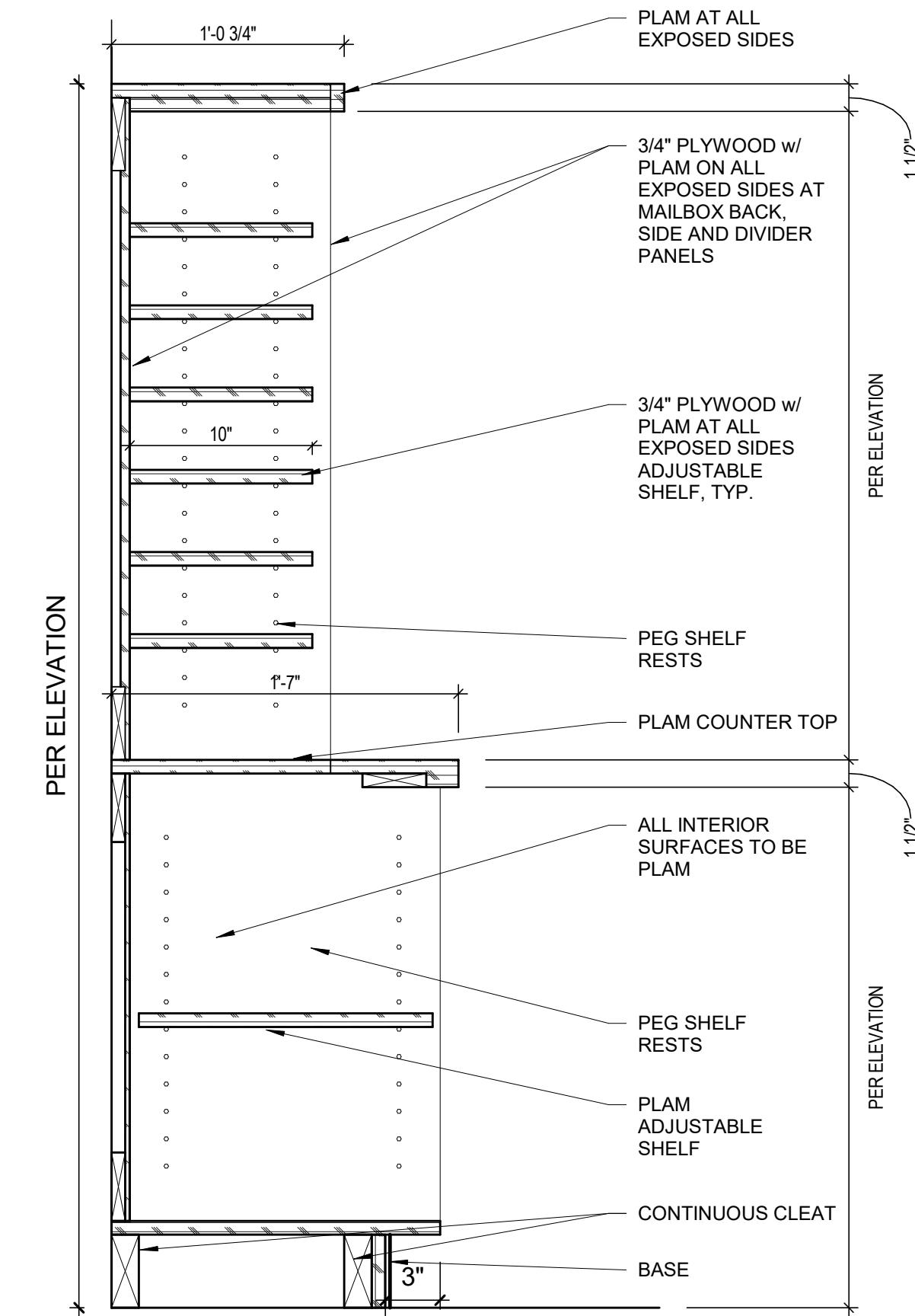
DRAWN BY \_\_\_\_\_ Author \_\_\_\_\_  
CHECKED BY \_\_\_\_\_ Checker \_\_\_\_\_

INTERIOR  
ELEVATIONS

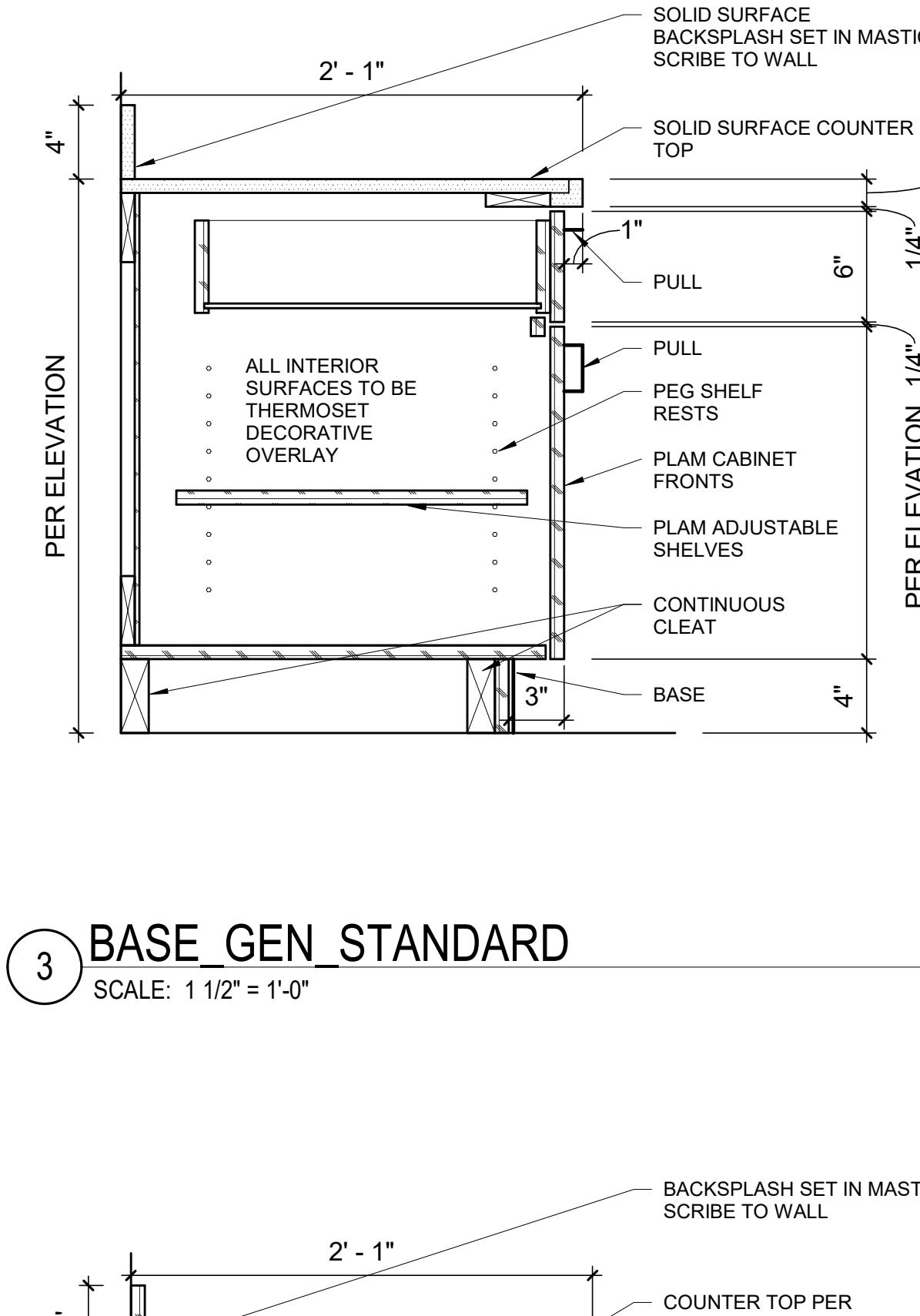
**A801**



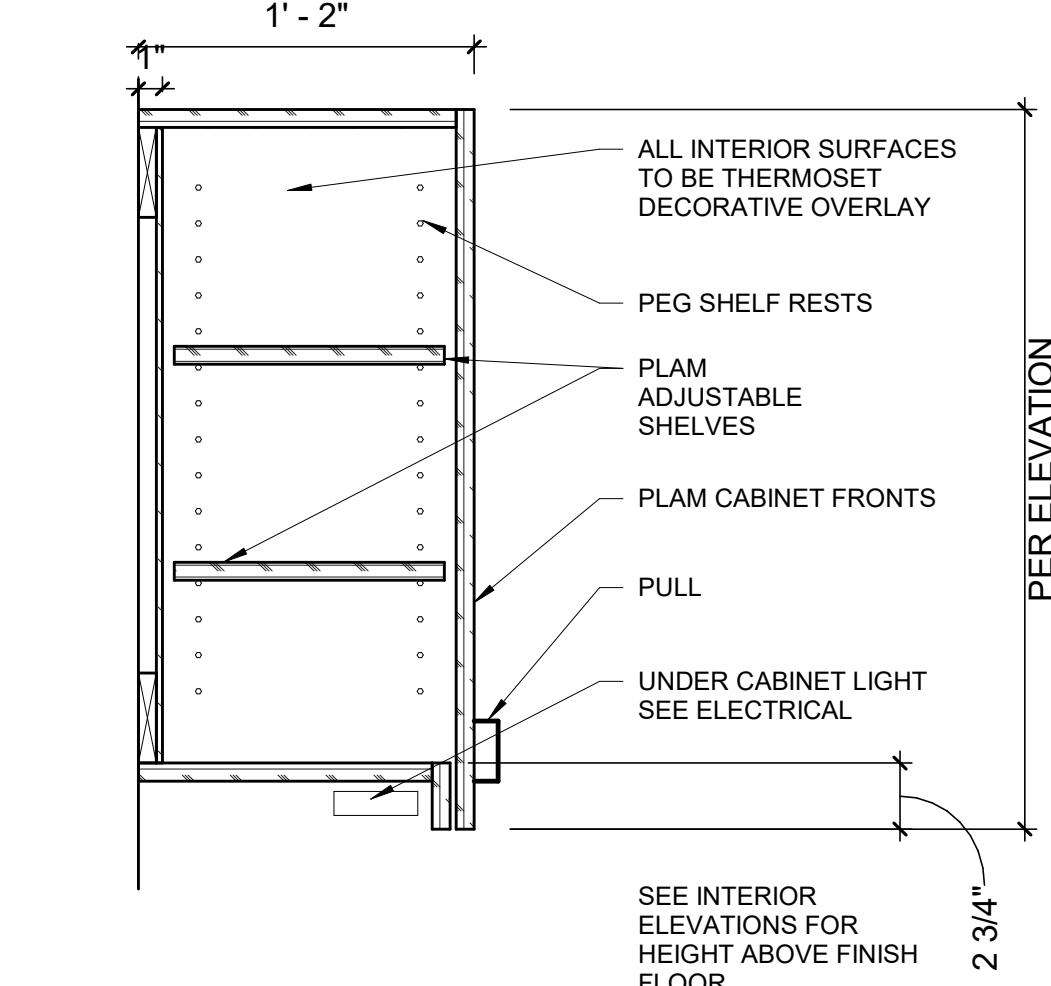
1 Base GEN\_Open\_Adj\_Shelf  
SCALE: 1 1/2" = 1'-0"



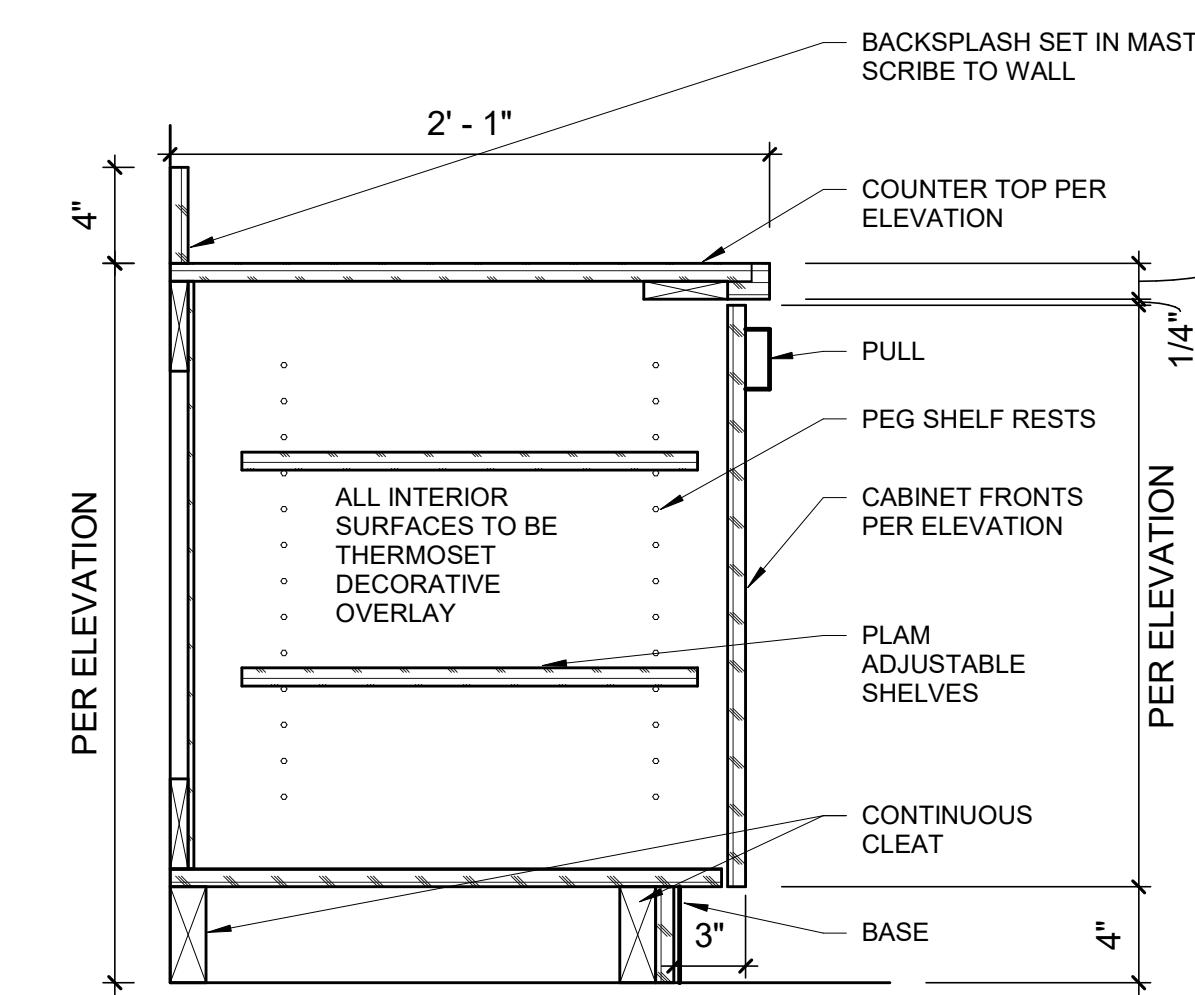
2 BASE\_OPEN\_SHELVES\_FULL\_HEIGHT  
SCALE: 1 1/2" = 1'-0"



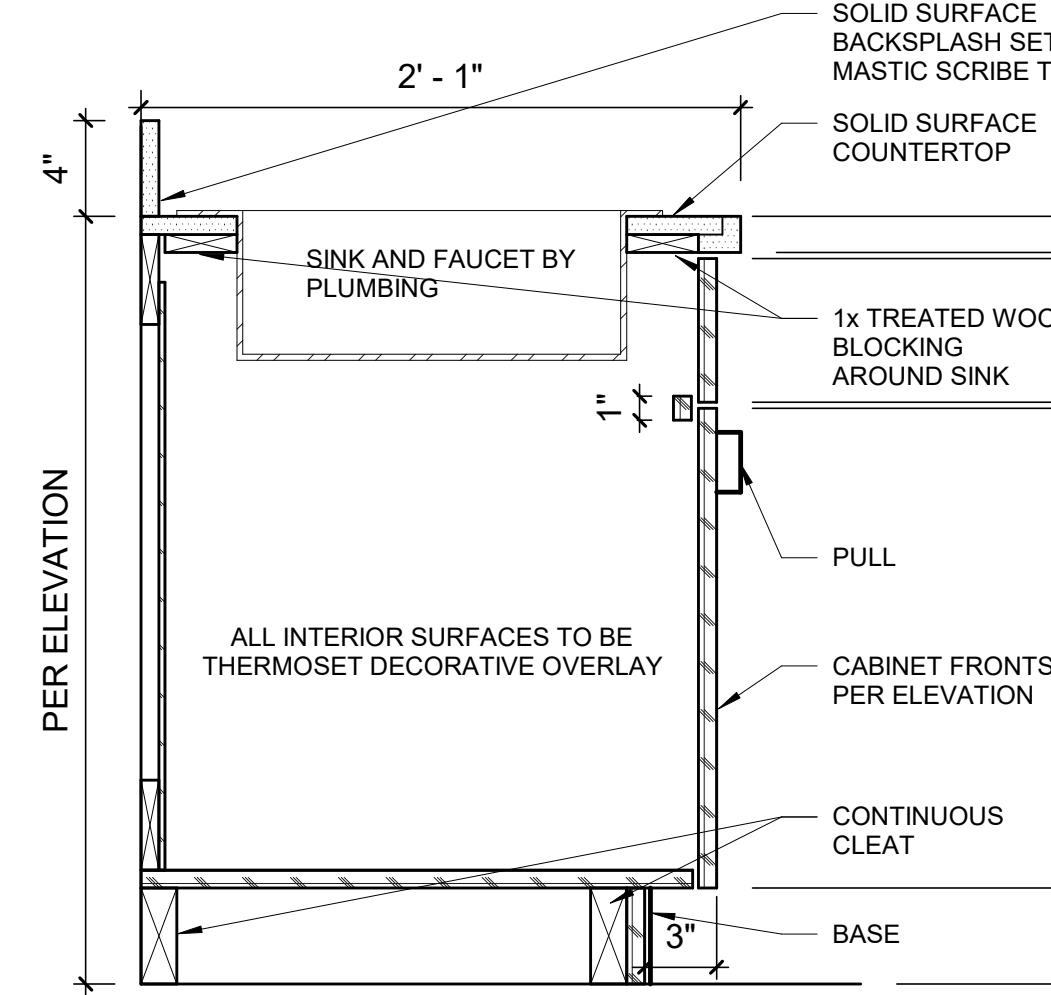
3 BASE\_GEN\_STANDARD  
SCALE: 1 1/2" = 1'-0"



4 WALL\_GEN\_NO\_SOFFIT  
SCALE: 1 1/2" = 1'-0"



5 BASE\_GEN\_FULL\_DOOR  
SCALE: 1 1/2" = 1'-0"



6 SINK\_BASE\_GEN\_STANDARD  
SCALE: 1 1/2" = 1'-0"

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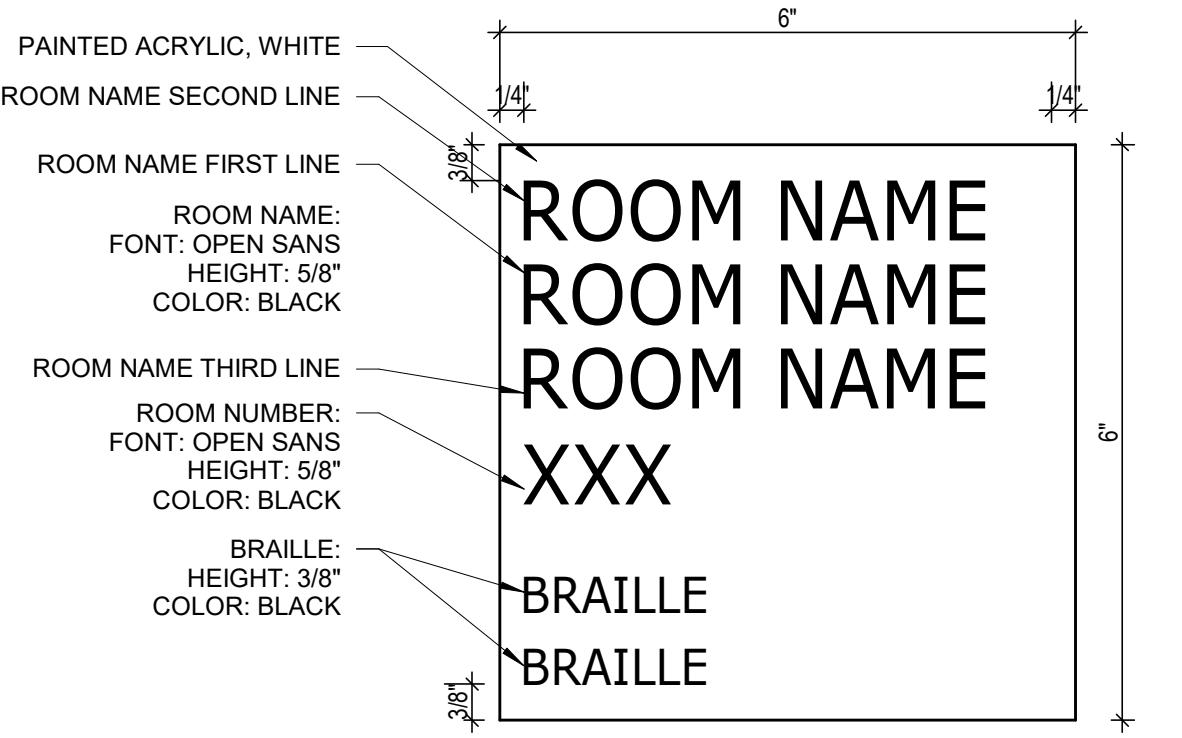
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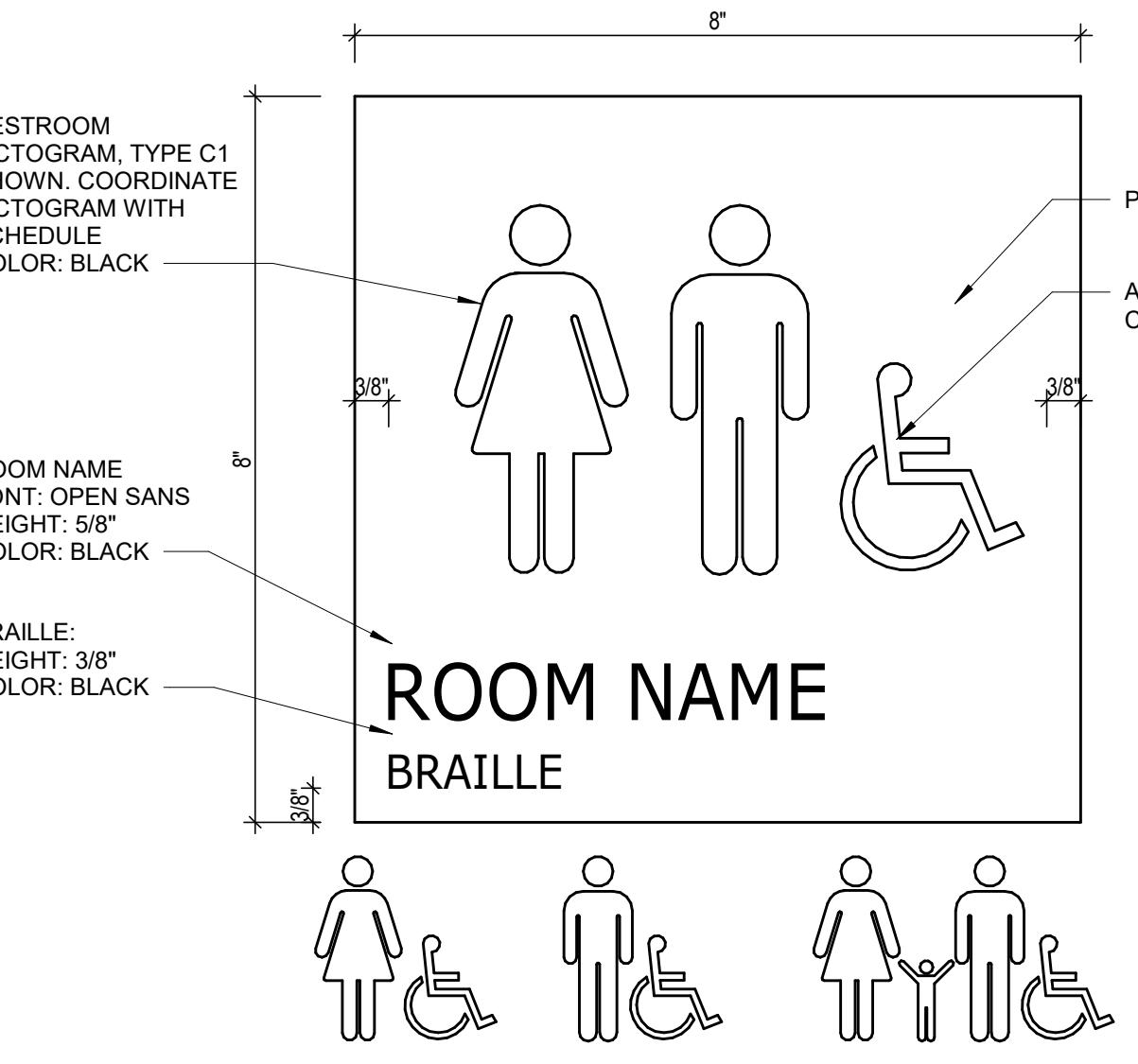
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## MILLWORK DETAILS

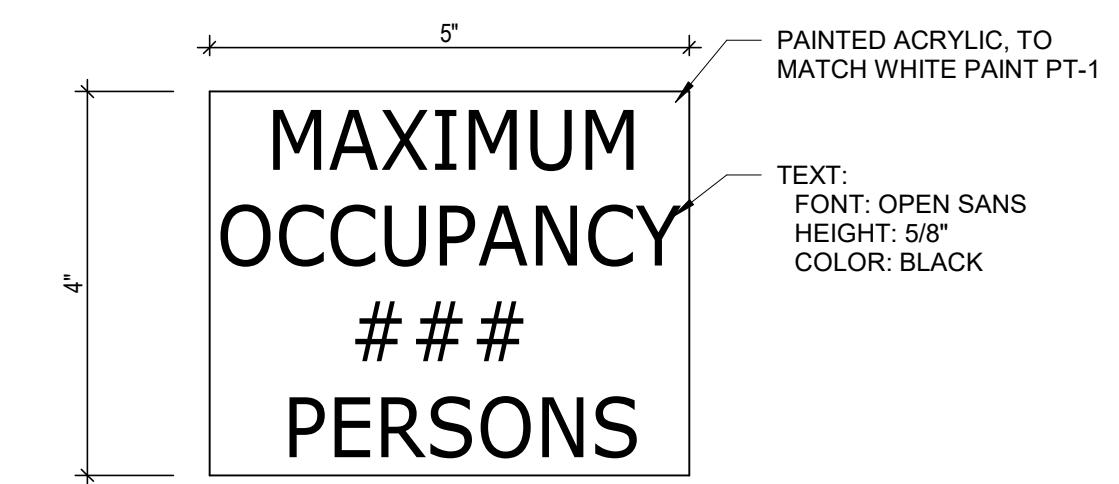
A802



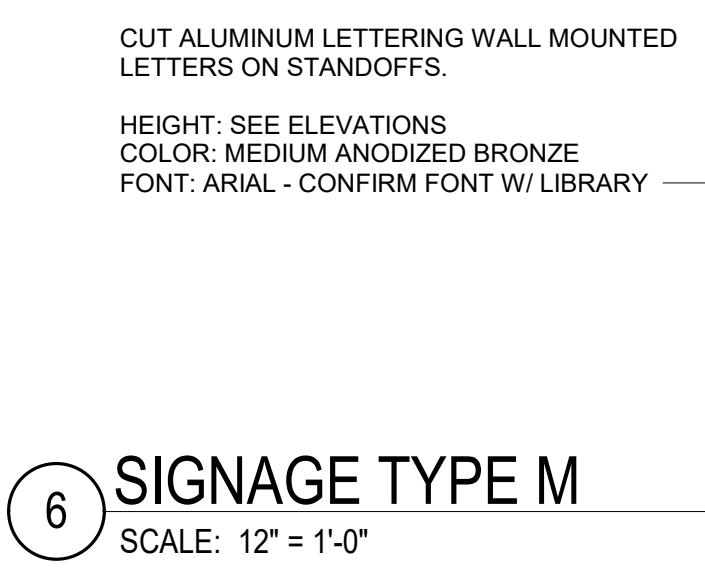
① SIGNAGE TYPE A  
SCALE: 6" = 1'-0"



③ SIGNAGE TYPE C  
SCALE: 6" = 1'-0"



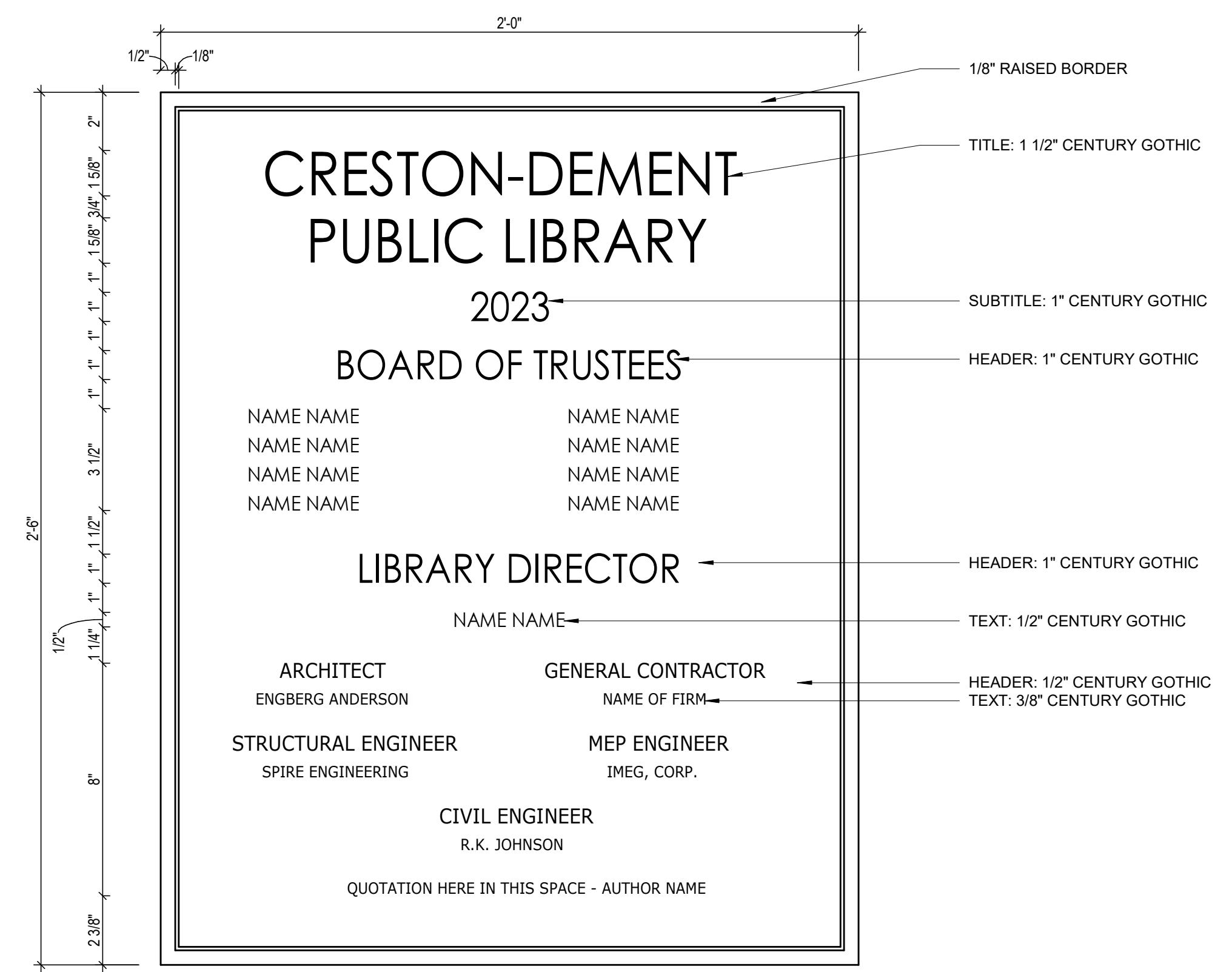
④ SIGNAGE TYPE D  
SCALE: 6" = 1'-0"



⑥ SIGNAGE TYPE M  
SCALE: 12" = 1'-0"

## EXTERIOR SIGNAGE

SIGNAGE SCHEDULE				
MARK ID	COPY	ROOM NUMBER	SIGN TYPE	COMMENTS
ID-005	CRESTON DEMENT PUBLIC LIBRARY	-	TYPE M	SIGNS HAS (2) HIGH TYPES. SEE ELEVATION
ID-100	-	100	TYPE X	
ID-101	MEETING ROOM	101	TYPE A	
ID-102A	STORAGE	102A	TYPE A	
ID-102B	MAXIMUM OCCUPANCY 55 PERSONS	102B	TYPE D	
ID-103	JANITORS CLOSET	103	TYPE A	
ID-105	RESTROOM	105	TYPE C	PICTOGRAM C1
ID-106	MENS	106	TYPE C	PICTOGRAM C3
ID-107	WOMENS	107	TYPE C	PICTOGRAM C2
ID-117	STAFF WORKROOM	117	TYPE A	
ID-118	STORAGE/MECHANICAL	118	TYPE A	



⑧ PLQ-1  
SCALE: 3" = 1'-0"

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## STRUCTURAL ABBREVIATIONS

ABBREV.	WORD OR PHRASE	ABBREV.	WORD OR PHRASE
@_AT	LIVE LOAD	LL	LIVE LOAD HORIZONTAL
AL	ANCHOR BOLT	LV	LONG VERTICAL
ALT	ALTERNATE	LSL	LAMINATED STRAND LUMBER
APA	AMERICAN PLYWOOD ASSOC.	LVL	LAMINATED VENEER LUMBER
ARCH	ARCHITECTURAL	LW	LONG WAY
BC	BOTTOM CHORD	MFR	MANUFACTURER
BLDG	BUILDING	MAX	MAXIMUM
BLKG	BLOCKING	MCH	MCHANICAL
BM	BEAM	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
BRG	BEARING	NIC	NOT IN CONTRACT
C	CENTERLINE	NTS	NOT TO SCALE
CB	COLUMN BASE	OC	ON CENTER
CIP	CAST-IN-PLACE	O.F.	OUTSIDE FACE
CL	CENTERLINE	OPP	OPPOSITE
CLR	CLEAR	PARA	PARALLEL
CJ	CONTROL OR CONSTRUCTION JOINT	P/C	PRECAST CONCRETE
CMU	CONCRETE MASONRY UNIT	PCF	POUNDS PER CUBIC FOOT
COL	COLUMN	PERP	PERPENDICULAR
CONC	CONCRETE OR CONCENTRATED	# PL	STEEL PLATE
CONT	CONTINUOUS	PLY	PLYWOOD
DBA	DECK BEARING ANGLE	PSI	POUNDS PER SQUARE INCH
DEFL	DEFLECTION	PSF	POUNDS PER SQUARE FOOT
DEMO	DEMOLITION	PSL	PARALLEL STRAND LUMBER
DRL	Douglas Fir Larch	PIT	POST-TENSIONED CONCRETE
DIA Ø	DIMENSION	PT	PRESSURE TREATED
DIM	DEAD LOAD	REINF	REINFORCEMENT
DL	DEAD LOAD	REQD	REQUIRED
DTL	DETAIL	RTU	ROOF TOP UNIT
DWL	DOWEL	SCHED	SCHEDULE
DWG	DRAWING	SHT	SHEET
EA	EACH	SIM	SIMILAR
EF	EACH FACE	SLRS	SEISMIC LOAD RESISTING SYSTEM
EJ	EXPANSION JOINT	SMF	SPECIAL MOMENT FRAME
EL	ELEVATION	SCBF	SPECIFIC CONCENTRIC BRACED FRAME
EMBD	EMBEDMENT	SMS	SHEET METAL SCREWS
EOSL	EDGE OF SLAB	SOG	SLAB ON GRADE
EOS	EDGE OF STEEL	SPEC	SPECIFICATION
EQ	EQUAL	SPF	SPUCE-PINE-FIR
EW	EACH WAY	SD	SQUARE
EXIST	EXISTING	SS	STAINLESS STEEL
EXP	EXPANSION	STL	STEEL
EXT	EXTERIOR	STR	STRUCTURAL
FD	FLOOR DRAIN	SW	SHORT WAY
FND	FOUNDATION	SYM	SYMMETRICAL
FF	FINISH FLOOR	SYP	SOUTHERN YELLOW PINE
FIN	FINISH	T&B	TOP AND BOTTOM
FLR	FLOOR	TC	TOP CHORD
FRMG	FRAMING	T&G	TONGUE AND GROOVE
FTG	FOOTING	TF	TOP OF FOOTING ELEVATION
GA	GAGE	TL	TOP OF LEDGE ELEVATION
GALV	GALVANIZED	TOC	TOP OF CONCRETE ELEVATION
GB	GRADE BEAM	TOSL	TOP OF SLAB ELEVATION
GC	GENERAL CONTRACTOR	TOP	TOP OF SLAB ELEVATION
GT	GIRDERS TRUSS	TP	TOP OF PILE ELEVATION
GYP	GYPSUM	TPC	TOP OF PILE CAP
HORIZ	HORIZONTAL	TRANS	TRANSVERSE
HIF	HORIZONTAL INSIDE FACE	TS	TUBE STEEL
HOF	HORIZONTAL OUTSIDE FACE	TW	TOP OF WALL ELEVATION
HSS	HOLLOW STRUCTURAL SECTION	TYP	TYPICAL
HT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
HVAC	HEATING, VENTILATING & AIR COND.	VERT	VERTICAL
HWS	HEADED WELD STUD	VIF	VERTICAL INSIDE FACE
LF	INSIDE FACE	VOF	VERTICAL OUTSIDE FACE
INFO	INFORMATION	w/	WITH
JST	JOIST	WF	WIDE FLANGE
KSI	KIPS PER SQUARE INCH	w/o	WITHOUT
L	ANGLE	WP	WORKPOINT
		WT	WEIGHT
		WWF	WELDED WIRE FABRIC

## ROOF TRUSS DESIGN NOTES

- TRUSS MANUFACTURER MAY NOT DEVIATE FROM THE FRAMING PLANS UNLESS PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER HAS BEEN GIVEN. IT IS THE TRUSS MANUFACTURER'S RESPONSIBILITY TO SEEK SUCH APPROVAL PRIOR TO MANUFACTURE AND INSTALLATION OF FRAMING MEMBERS.
- ROOF TRUSS DESIGNER TO VERIFY MINIMUM DESIGN LOADS.
- DESIGN UPLIFT ON ROOF TRUSSES AS INDICATED IN THE DESIGN DATA. PROVIDE A TIE DOWN CLIP AT EACH TRUSS, AT EVERY POINT OF BEARING.
- UNBALANCED SNOW LOAD SHALL BE TAKEN ON EITHER SIDE OF RIDGE AND SHALL BE CONSIDERED CUMULATIVE @ VALLEY LOCATIONS. APPLY DESIGN DRIFT LOADS TO ROOF TRUSSES WHERE REQUIRED BY THE APPLICABLE BUILDING CODE, CURRENT EDITION. SEE SNOW DRIFT PLAN I/S002.

## DEFLECTION LIMITS:

LIVE LOAD L360  
TOTAL LOAD L240 (MAX TOTAL 1")

## LOADS:

ROOF DEAD LOAD SEE ROOF TRUSS SCHEDULE

ROOF TOP MECHANICAL UNITS (RTUs) COORD w/ MEC SUPPLIER

ROOF WIND LOAD (ALSO SEE DESIGN DATA FOR ADDITIONAL WIND LOADS)

END ZONE (Wre) 24 psf HORIZONTAL

INTERIOR ZONE (Win) 16 psf HORIZONTAL

DESIGN/BALANCED SNOW LOAD (Ps) SEE DESIGN DATA

UNBALANCED SNOW LOAD (Pw) SEE SHEAR WALL SCHEDULE FOR SHEATHING TYPE AND ATTACHMENT INFORMATION FOR ALL WALLS DESIGNATED ON THE PLANS AS A SHEAR WALL. FOR ALL OTHER INTERIOR LOAD BEARING WALLS NOT DESIGNATED AS SHEAR WALLS, PROVIDE A MINIMUM OF (1) LAYER OF 5/8" GYPSUM BOARD ATTACHED TO WALL STUDS WITH #6 x 1 1/4" "S" OR "W" DRYWALL SCREWS @ 7'OC ALONG PANEL EDGES AND 12'OC ALONG INTERMEDIATE MEMBERS.

3. EXTERIOR WALL SHEATHING: 7/16 OSS SHEATHING OR FIBERGLASS GYP. ATTACH DIRECTLY TO EXTERIOR FACE OF STUD WALL WITH #8 (2 1/2") COMMON OR BOX NAILS @ 6'OC ALONG PANEL EDGES AND 12'OC ALONG INTERMEDIATE MEMBERS.

4. INTERIOR WALL SHEATHING: SEE SHEAR WALL SCHEDULE FOR SHEATHING TYPE AND ATTACHMENT INFORMATION FOR ALL WALLS DESIGNATED ON THE PLANS AS A SHEAR WALL. FOR ALL OTHER INTERIOR LOAD BEARING WALLS NOT DESIGNATED AS SHEAR WALLS, PROVIDE A MINIMUM OF (1) LAYER OF 5/8" GYPSUM BOARD ATTACHED TO WALL STUDS WITH #6 x 1 1/4" "S" OR "W" DRYWALL SCREWS @ 7'OC ALONG PANEL EDGES AND 12'OC ALONG INTERMEDIATE MEMBERS.

5. ALL CONNECTIONS SHALL COMPLY WITH IBC 2015/2018 TABLE 2304.10.1 FASTENING SCHEDULE, SEE SHEET S003. DETAILS IN DRAWINGS WITH MORE EXTENSIVE CONNECTIONS SHALL GOVERN OVER THOSE SHOWN IN TABLE.

6. AT INTERIOR BEARING WALLS WHERE FLOOR TRUSSES BEAR ON THE WALL FROM BOTH SIDES, LAP TRUSSES SO THAT EACH TRUSS BEARS ON FULL WIDTH OF WALL.

7. PROVIDE CROSS BRIDGING BETWEEN FLOOR JOISTS PER NATIONAL DESIGN SPECIFICATION (LATEST EDITION) FOR WOOD CONSTRUCTION 4.4.1

8. FOR ALL WOOD MEMBERS THAT FRAME INTO OTHER MEMBERS AND WHERE NOT SPECIFICALLY DETAILED OR SPECIFIED IN THE DRAWINGS, USE AN APPROPRIATE SIMPSON STRONG TIE HANGER SELECTED FOR ACTUAL END REACTION. CONTACT ENGINEER FOR END REACTION IF NECESSARY.

9. ALL EXTERIOR EXPOSED LUMBER TO BE PRESERVATIVE TREATED (PT) FOR MOISTURE RESISTANCE.

10. ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM 2x4 WITH 2-16d IN EVERY TRUSS IT CROSSES.

11. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE ROOF DECKING.

12. ALL TRUSS WEB MEMBERS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS.

13. ALL ROOF TRUSS HORIZONTAL BRACING SHALL BE STIFFENED @ 20'-0" OC WITH EITHER:

a. DIAGONAL BRACING EXTENDED TO A SHEAR WALL PARALLEL TO THE ORIGINAL BRACING.

b. 1/2" APA RATED SHEATHING EXTENDED TO ROOF DECK OR SHEAR WALL.

14. ALL TRUSS BOTTOM CHORDS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS. CONTINUOUS SHEETING APPLIED TO BOTTOM CHORD MAY SATISFY THIS BRACING REQUIREMENT.

15. UNBALANCED SNOW LOAD SHALL BE TAKEN ON EITHER SIDE OF RIDGE AND SHALL BE CONSIDERED CUMULATIVE @ VALLEY LOCATIONS

16. ROOF TRUSS BRACING NOTES

17. ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM 2x4 WITH 2-16d IN EVERY TRUSS IT CROSSES.

18. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE ROOF DECKING.

19. ALL TRUSS WEB MEMBERS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS.

20. ALL ROOF TRUSS HORIZONTAL BRACING SHALL BE STIFFENED @ 20'-0" OC WITH EITHER:

a. DIAGONAL BRACING EXTENDED TO A SHEAR WALL PARALLEL TO THE ORIGINAL BRACING.

b. 1/2" APA RATED SHEATHING EXTENDED TO ROOF DECK OR SHEAR WALL.

21. ALL TRUSS BOTTOM CHORDS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS. CONTINUOUS SHEETING APPLIED TO BOTTOM CHORD MAY SATISFY THIS BRACING REQUIREMENT.

22. UNBALANCED SNOW LOAD SHALL BE TAKEN ON EITHER SIDE OF RIDGE AND SHALL BE CONSIDERED CUMULATIVE @ VALLEY LOCATIONS

23. ROOF TRUSS BRACING NOTES

24. ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM 2x4 WITH 2-16d IN EVERY TRUSS IT CROSSES.

25. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE ROOF DECKING.

26. ALL TRUSS WEB MEMBERS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS.

27. ALL ROOF TRUSS HORIZONTAL BRACING SHALL BE STIFFENED @ 20'-0" OC WITH EITHER:

a. DIAGONAL BRACING EXTENDED TO A SHEAR WALL PARALLEL TO THE ORIGINAL BRACING.

b. 1/2" APA RATED SHEATHING EXTENDED TO ROOF DECK OR SHEAR WALL.

28. ALL TRUSS BOTTOM CHORDS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS. CONTINUOUS SHEETING APPLIED TO BOTTOM CHORD MAY SATISFY THIS BRACING REQUIREMENT.

29. UNBALANCED SNOW LOAD SHALL BE TAKEN ON EITHER SIDE OF RIDGE AND SHALL BE CONSIDERED CUMULATIVE @ VALLEY LOCATIONS

30. ROOF TRUSS BRACING NOTES

31. ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM 2x4 WITH 2-16d IN EVERY TRUSS IT CROSSES.

32. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE ROOF DECKING.

33. ALL TRUSS WEB MEMBERS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS.

34. ALL ROOF TRUSS HORIZONTAL BRACING SHALL BE STIFFENED @ 20'-0" OC WITH EITHER:

a. DIAGONAL BRACING EXTENDED TO A SHEAR WALL PARALLEL TO THE ORIGINAL BRACING.

b. 1/2" APA RATED SHEATHING EXTENDED TO ROOF DECK OR SHEAR WALL.

35. ALL TRUSS BOTTOM CHORDS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS. CONTINUOUS SHEETING APPLIED TO BOTTOM CHORD MAY SATISFY THIS BRACING REQUIREMENT.

36. UNBALANCED SNOW LOAD SHALL BE TAKEN ON EITHER SIDE OF RIDGE AND SHALL BE CONSIDERED CUMULATIVE @ VALLEY LOCATIONS

37. ROOF TRUSS BRACING NOTES

38. ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM 2x4 WITH 2-16d IN EVERY TRUSS IT CROSSES.

39. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE ROOF DECKING.

40. ALL TRUSS WEB MEMBERS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS.

41. ALL ROOF TRUSS HORIZONTAL BRACING SHALL BE STIFFENED @ 20'-0" OC WITH EITHER:

a. DIAGONAL BRACING EXTENDED TO A SHEAR WALL PARALLEL TO THE ORIGINAL BRACING.

b. 1/2" APA RATED SHEATHING EXTENDED TO ROOF DECK OR SHEAR WALL.

42. ALL TRUSS BOTTOM CHORDS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS. CONTINUOUS SHEETING APPLIED TO BOTTOM CHORD MAY SATISFY THIS BRACING REQUIREMENT.

43. UNBALANCED SNOW LOAD SHALL BE TAKEN ON EITHER SIDE OF RIDGE AND SHALL BE CONSIDERED CUMULATIVE @ VALLEY LOCATIONS

44. ROOF TRUSS BRACING NOTES

45. ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM 2x4 WITH 2-16d IN EVERY TRUSS IT CROSSES.

46. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE ROOF DECKING.

47. ALL TRUSS WEB MEMBERS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS.

48. ALL ROOF TRUSS HORIZONTAL BRACING SHALL BE STIFFENED @ 20'-0" OC WITH EITHER:

a. DIAGONAL BRACING EXTENDED TO A SHEAR WALL PARALLEL TO THE ORIGINAL BRACING.

b. 1/2" APA RATED SHEATHING EXTENDED TO ROOF DECK OR SHEAR WALL.

49. ALL TRUSS BOTTOM CHORDS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS. CONTINUOUS SHEETING APPLIED TO BOTTOM CHORD MAY SATISFY THIS BRACING REQUIREMENT.

50. UNBALANCED SNOW LOAD SHALL BE TAKEN ON EITHER SIDE OF RIDGE AND SHALL BE CONSIDERED CUMULATIVE @ VALLEY LOCATIONS

51. ROOF TRUSS BRACING NOTES

52. ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM 2x4 WITH 2-16d IN EVERY TRUSS IT CROSSES.

53. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE ROOF DECKING.

54. ALL TRUSS WEB MEMBERS SHALL BE BRACED @ 4'-0" OC MIN. TRUSS DESIGNER TO DETERMINE ACTUAL BRACING REQUIREMENTS.

55. ALL ROOF TRUSS H

## STRUCTURAL STEEL NOTES

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
- ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", LATEST EDITION.
- USE A325N BOLTS UNLESS NOTED OTHERWISE. BOLTS SHALL BE 3/4" Ø UNLESS SPECIFICALLY INDICATED OTHERWISE ON PLANS OR DETAILS.
- SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
- OVERSIZE OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY THE ENGINEER.
- BEAM AND GIRDER CONNECTIONS SHALL BE AS NOTED ON PLANS AND IN DETAILS.
- PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER DURING ERECTION. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 11/2" IN DIAMETER AND SHALL BE GROUND SMOOTH.
- CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
- PROVIDE ANY NECESSARY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE BUILDING UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
- STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.

## MASONRY REINFORCING NOTES

- SEE SHEET S003 FOR 'MASONRY WALL & PIER REINFORCING SCHEDULE' FOR MASONRY WALL REINFORCING REQUIREMENTS.
- OPENING JAMBS IN WALLS SHOWN ON PLAN NOT LABELED AS A MASONRY PIER SHALL HAVE ONE CORE GROUTED SOLID WITH (1) #5 VERTICAL FULL HEIGHT.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF NON-BEARING MASONRY WALLS. INTERIOR NON-BEARING MASONRY WALLS LOWER THAN 14'-0" IN HEIGHT ON 5' OR THICKER CONCRETE SLAB DO NOT REQUIRE THICKENED SLABS. WALLS REQUIRING THICKENED SLABS ARE INDICATED ON PLAN.
- SEE SHEET S003 FOR LINTEL SCHEDULE.
- PROVIDE BOND BEAM w/ (2) #4 CONT. AT ALL LOCATIONS WHERE BOND BEAMS ARE SHOWN ON ARCHITECTURAL DRAWINGS BUT NOT ON STRUCTURAL.
- PROVIDE BOND BEAM w/ (2) #4 CONT. AT OPENING SILLS NOT SPECIFICALLY DETAILED.
- ALL REINFORCING OF MASONRY WALLS IS SHOWN ON ITS HIGHEST LEVEL OF OCCURRENCE. ALL REINFORCING SHALL BE FULL HEIGHT U.N.O.

## STRUCTURAL INSULATED PANEL (SIP) NOTES

- DESIGN REQUIREMENTS**
  - PROVIDE SIPs WHICH HAVE BEEN MANUFACTURED, FABRICATED AND INSTALLED TO WITHSTAND SPECIFIED LOADS AS DETERMINED BY DESIGN IN ACCORDANCE WITH THE LOCAL BUILDING CODES AND THE MAINTAIN PERFORMANCE CRITERIA AS STATED BY THE SIP MANUFACTURER WITHOUT DEFECTS, DAMAGE OR PRODUCT FAILURE
  - THICKNESS AS INDICATED ON DRAWINGS
  - LOADS AS FOLLOWS:
    - DEAD = 10 psf (NOT INCLUDING SELF-WEIGHT OF PANELS)
    - SNOW = 25 psf
    - WIND UPLIFT = SEE 'DESIGN DATA'
- QUALITY ASSURANCE**
  - INSTALLER QUALIFICATIONS: ENGAGE AN EXPERIENCED INSTALLER WHO IS APPROVED, CERTIFIED OR TRAINED BY PANEL MANUFACTURER FOR INSTALLATION OF THEIR PRODUCTS; WHO HAS SUCCESSFULLY COMPLETED PROJECTS SIMILAR IN DETAIL AND COMPLEXITY TO THE PROJECT, AND WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE
  - STORE SIPs OFF GROUND, PROTECTED FROM WEATHER AND CONSTRUCTION ACTIVITIES, AND COVERED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, ALLOWING FOR AIR CIRCULATION beneath COVER TO ELIMINATE CONDENSATION.
  - OBTAin ALL SIPs THROUGH ONE SOURCE. ALL ACCESSORIES TO BE FURNISHED OR RECOMMENDED BY THE SIP MANUFACTURER.
  - PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE. ATTENDEES SHALL INCLUDE THE ARCHITECT, INSTALLER, PANEL MANUFACTURER'S TECHNICAL FIELD REPRESENTATIVE, AND REPRESENTATIVES OF OTHER TRADES AFFECTED BY, OR WHOSE WORK MUST BE COORDINATED WITH, THE SIPs WORK.
- MATERIALS**
  - INSULATION CORE- EPS; UL CERTIFIED FOR FIRE AND PHYSICAL PROPERTIES OF ASTM C578 TYPE I EPS WITH BORATE INSECT RESISTANT TREATMENT. INSULATION MANUFACTURER SHALL PROVIDE THIRD PARTY UL CERTIFICATE.
  - COMPOSITE WOOD FACERS: OSB IDENTIFIED WITH APA OR PES PERFORMANCE MARK WITH EXPOSURE DURABILITY RATING AND PERFORMANCE IN ACCORDANCE WITH DOC PS-2 SPAN RATING 24/16 OR GREATER.
  - ADHESIVES: LAMINATING ADHESIVES SHALL BE IN CONFORMANCE WITH ICC ES AC05 ACCEPTANCE CRITERIA FOR SANDWICH PANEL ADHESIVES.
  - SPINES: OSB OR PLYWOOD, SIP BOX SPLINE, OR I-BEAM FOR USE IN JOINING SIPs SHALL BE SUPPLIED BY SIPs MANUFACTURER.
  - FASTENERS: CORROSION RESISTANT SIP SCREWS COMPATIBLE WITH SIP SYSTEM SHALL BE PROVIDED BY THE SIPs MANUFACTURER.
  - PANEL SEALANT: SHALL BE SPECIFICALLY DESIGNED FOR USE WITH SIPs. MASTIC MUST BE COMPATIBLE WITH ALL COMPONENTS OF THE SIP. PANEL SEALANT SHALL BE PROVIDED BY THE SIP MANUFACTURER.
  - DIMENSIONAL LUMPS: SPF. NO.2 OR BETTER, OR ENGINEERED EQUIVALENT UNLESS OTHERWISE REQUIRED BY MANUFACTURER.
  - VAPOR RETARDER SIP TAPE: TAPE WITH AN ADHESIVE SUITABLE FOR INDOOR USE. MINIMUM 6" WIDE FOR USE ON SIP JOINTS, 18" WIDE FOR USE AT ROOF BEAMS. SIP TAPE SHALL BE SUPPLIED BY THE SIP MANUFACTURER.
- INSTALLATION**
  - INSTALL PANELS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
  - REMOVE AND REPLACE SIPs THAT HAVE BECOME EXCESSIVELY WET OR DAMAGED PRIOR TO INSTALLATION.
  - INSTALL PANELS TO REQUIRED LEVELS AND LINES, WITH PANELS PLUMB, TRUE TO LINE, CUT, AND PITTED. ANCHOR PANELS SECURELY IN PLACE, WITH PROVISIONS FOR THERMAL AND STRUCTURAL MOVEMENT.
  - TREAT JOINTS BETWEEN PANELS AND TRANSITIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
  - PROTECT INSTALLED PANELS AND EXPOSED SURFACES FROM DAMAGE DUE TO SUBSEQUENT CONSTRUCTION ACTIVITIES AND FROM EXPOSURE TO OR CONTACT WITH WATER.
  - EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES, PANEL SUPPORTS, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
  - EXAMINE ROUGHING-IN FOR COMPONENTS AND SYSTEMS PENETRATING PANELS TO VERIFY ACTUAL LOCATIONS OF PENETRATIONS RELATIVE TO SEAM LOCATIONS OF PANELS BEFORE INSTALLATION.

## PRECAST CONCRETE NOTES

- PRECAST CONCRETE SUPPLIER SHALL DESIGN AND PROVIDE ALL LINTELS ACROSS OPENINGS IN NEW PRECAST CONCRETE WALL PANELS. THIS INCLUDES ANY STRUCTURAL HSS STEEL REQUIRED TO SUPPORT PRECAST CONCRETE MEMBERS.
- PRECAST CONCRETE WALL PANELS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", LATEST EDITION.
- USE A325N BOLTS UNLESS NOTED OTHERWISE. BOLTS SHALL BE 3/4" Ø UNLESS SPECIFICALLY INDICATED OTHERWISE ON PLANS OR DETAILS.
- SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
- OVERSIZE OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY THE ENGINEER.
- BEAM AND GIRDER CONNECTIONS SHALL BE AS NOTED ON PLANS AND IN DETAILS.
- PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER DURING ERECTION. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 11/2" IN DIAMETER AND SHALL BE GROUND SMOOTH.
- CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
- PROVIDE ANY NECESSARY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE BUILDING UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
- STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.

## CMU WALL CONSTRUCTION NOTES

- FOR USE WITH IBC 2015. "ACI 530-13/ASCE 5-13/TMS 402-13 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" PROVIDE LEVEL B QUALITY ASSURANCE PER TABLE 3.1.2 AND AS REQUIRED IN CHAPTER 3. VERIFY fm REQUIRED USING THE UNIT STRENGTH METHOD.
- FOR USE WITH IBC 2016 OR LATER. IN ACCORDANCE WITH TMS 402/402-16 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES. PROVIDE LEVEL B QUALITY ASSURANCE PER TABLES 3 AND 4 AND AS REQUIRED IN CHAPTER 1. VERIFY fm REQUIRED USING THE UNIT STRENGTH METHOD.
- CMU SHALL BE LAID IN RUNNING BOND WITH TYPE S MORTAR (TYPE S OR M BELOW GRADE), UNLESS SPECIFICALLY INDICATED OTHERWISE ON STRUCTURAL OR ARCHITECTURAL DRAWINGS OR SPECIFICATIONS.
- PROVIDE MINIMUM (1) #5 VERTICAL BAR AT ALL WALL CORNERS, ENDS OF WALLS, & EACH SIDE OF CONTROL JOINTS.
- ALL REINFORCED CELLS SHALL BE GROUTED WITH PEA GRAVEL CONCRETE HAVING A MIN. COMPRESSIVE STRENGTH AS LISTED IN THE MATERIAL DESIGN PROPERTIES IN THE GENERAL NOTES. (2500 psi, MIN). WITH SLUMP 8" TO 11" (UNLESS NOTED OTHERWISE IN SPEC).
- HORIZONTAL REINFORCING AND BOND BEAM REINFORCING AT CORNERS SHALL BE LAPPED A MINIMUM OF 48 BAR DIAMETERS, OR 24" INCHES, WHICHEVER IS LARGER.
- GROUT LIFTS SHALL NOT EXCEED 5 FEET UNLESS COORDINATED BETWEEN THE ARCHITECT, ENGINEER, AND GENERAL CONTRACTOR (OR CM). CONSOLIDATE GROUT AT TIME OF PLACEMENT.
- CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR, WHEN THE POUR HEIGHT EXCEEDS 5 FEET.
- FACE SHELLS AND WEB FORMING CELLS SHALL BE FULL-BEDDED IN THE STARTING COURSE ON FOUNDATIONS, AND IN ALL COURSES OF PIERS AND PILASTERS.
- FOR RUNNING BOND WALLS, PROVIDE HORIZONTAL JOINT REINFORCING AT 16" OC VERTICALLY (8" OC IN PARAPET WALLS), FOR STACK BOND WALLS, PROVIDE HORIZONTAL JOINT REINFORCING AT 8" OC VERTICALLY, OR EXTRAS HEAVY (A = 0.056 MIN) JOINT REINFORCING AT 16" OC VERTICALLY. SEE DETAILS FOR ADDITIONAL INFORMATION.
- HORIZONTAL JOINT REINFORCING SHALL BE TERMINATED AT CONTROL JOINTS. BOND BEAM REINFORCING SHALL BE CONTINUOUS, AS INDICATED IN DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR CONTROL JOINT SPACING UNLESS INDICATED ON STRUCTURAL DRAWINGS. IF CMU CONTROL JOINTS ARE NOT INDICATED ON PLAN OR IN ARCHITECTURAL DRAWINGS FOR GIVEN LOCATIONS, PROVIDE CMU CONTROL JOINTS IN EXTERIOR WALLS AT MAXIMUM SPACING OF 28" AND INTERIOR WALLS AT 32". PROVIDE JOINTS WITHIN 12" EACH WAY OF CORNERS, AND LOCATE AT OR NEAR INTERSECTIONS. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS IN MASONRY VENEER.
- SOLID OR SOLID GROUTED CMU SHALL BE PROVIDED IN COURSES IMMEDIATELY ABOVE AND BELOW ANY CHANGES IN WT/H. THICKNESS. PROVIDE BOND BEAMS WHERE NOTED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- REFER TO "MASONRY WALL & PIER REINFORCING SCHEDULE" FOR MASONRY WALL REINFORCING REQUIREMENTS.
- OPENING JAMBS SHOWN ON PLAN NOT LABELED AS A MASONRY PIER SHALL HAVE ONE CORE GROUTED SOLID w/ (1) #5 VERTICAL FULL HEIGHT, MINIMUM (UNLESS NOTED OTHERWISE IN LINTEL SCHEDULE).
- ALL REINFORCING OF MASONRY WALLS SHALL BE FULL HEIGHT OF WALL UNLESS INDICATED OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF NON-LOAD BEARING MASONRY WALLS. INTERIOR NON-LOAD BEARING WALLS 12' TALL OR TALLER ON 4" THICK SLABS REQUIRE THICKENED SLABS. INTERIOR NON-LOAD BEARING WALLS 14' TALL OR TALLER ON 5" THICK SLABS REQUIRE THICKENED SLABS. SEE DETAIL FOR THICKENED SLAB.
- PROVIDE BOND BEAM w/ (2) #4 CONT. AT ALL OPENING SILLS NOT SPECIFICALLY DETAILED.
- MISC. LINTELS NOT SHOWN ON PLAN (HVAC, PLUMBING, ETC.):
  - UP TO 4'-0" CLEAR: 8" DEEP BOND BEAM w/ (2) #5 T&B
  - 4'-0" TO 6'-0" CLEAR: 16" DEEP BOND BEAM w/ (2) #5 T&B
  - 6'-0" AND LARGER: CONFIRM WITH ENGINEER.

## CAST-IN-PLACE CONCRETE TOLERANCES

- CONCRETE COVER MEASURED PERPENDICULAR FROM THE SURFACE IN DIRECTION OF TOLERANCES:
 

MEMBERS 12" OR LESS	±3/8"
MEMBERS OVER 12"	±1/2"
- STEEL REINFORCEMENT SPACING SHALL BE WITHIN THE FOLLOWING TOLERANCES: 1/4" SPACING DISTANCE, NOT TO EXCEED 1"
- PLACEMENT OF EMBEDDED ITEMS SHALL BE WITHIN THE FOLLOWING TOLERANCES:
 

VERTICAL ALIGNMENT	±1"
LATERAL ALIGNMENT	±1"
LEVEL ALIGNMENT	±1"
- PLACEMENT OF FOOTINGS SHALL BE WITHIN THE FOLLOWING TOLERANCES:
 

LATERAL ALIGNMENT	±2"
LEVEL ALIGNMENT	+1/2" TO -2"
(LEVEL ALIGNMENT SUPPORTING MASONRY)	±1/2"
- CROSS-SECTIONAL DIMENSION OF FOUNDATIONS SHALL BE WITHIN THE FOLLOWING TOLERANCES:
 

SPREAD FOOTINGS / PILE CAPS	+2" TO -1/2"
FOUNDATION THICKNESS	±5%
- TOP OF FOOTING SLOPE: 1" IN 10'

## CAST-IN-PLACE CONCRETE NOTES

- ALL WORK TO BE DONE IN ACCORDANCE WITH ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (MOST CURRENTLY ADOPTED EDITION).
- CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AT LEAST 48 HOURS PRIOR TO PLACING CONCRETE TO FACILITATE ON SITE OBSERVATION OF REBAR.
- ARRANGEMENT AND BENDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL (ACI SP-66), LATEST EDITION.
- WHEN THE AVERAGE TEMPERATURE FROM MIDNIGHT TO MIDNIGHT IS EXPECTED TO DROP BELOW 40 DEGREES FAHRENHEIT FOR THREE SUCCESSIVE DAYS, COLD WEATHER CONCRETING REQUIREMENTS SHALL BE FOLLOWED (REFER TO ACI 306R).
- WHEN AMBIENT AIR OR CONCRETE TEMPERATURES EXCEED 90 DEGREES FAHRENHEIT, STEEL REINFORCING AND/OR FORMING SURFACES ARE ABOVE 120 DEGREES, OR WHEN WIND VELOCITY, HUMIDITY, OR SOLAR RADIATION CREATE CONDITIONS OF ACCELERATED MOISTURE LOSS AND INCREASED RATE OF HYDRATION, HOT WEATHER CONCRETING REQUIREMENTS SHALL BE FOLLOWED (REFER TO ACI 305R).
- ALL CONCRETE SURFACES SHALL BE FORMED UNO OR APPROVED BY THE STRUCTURAL ENGINEER.
- CONTROL JOINTS SHALL BE PLACED IN SLAB ON GRADE AND SLAB ON METAL DECK CONSTRUCTION WITHIN 24 HOURS OF INITIAL POUR.
  - CONTROL JOINTS IN NON-COMPOSITE SLAB ON METAL DECK CONSTRUCTION SHALL BE PLACED WITHIN 8 HOURS OF INITIAL POUR.
  - COMPOSITE SLAB ON METAL DECK SHALL NOT HAVE SAWED CONTROL JOINTS UNLESS SPECIFICALLY IDENTIFIED, CUT WITHIN 8 HOURS IF INDICATED.
- PROVIDE WALL CONSTRUCTION JOINTS AS SHOWN IN DETAILS. ALLOW AT LEAST 24 HOURS BETWEEN POURING ADJACENT WALL SECTIONS AT CONSTRUCTION JOINTS.
- PROVIDE 1/2" ISOLATION JOINTS WHERE SLABS ON GROUND ABUT VERTICAL SURFACES.
- PROVIDE A 3/4" CHAMFER ON EXPOSED CORNERS OF CONCRETE UNO. TOP EDGES OF WALLS SHALL BE TOELED UNO.
- CONCRETE COLUMN OR PIERS SHOWN INTEGRAL WITH CONCRETE WALLS SHALL BE POURED MONOLITHICALLY WITH ADJACENT CONCRETE WALLS.
- SLEEVES, CONDUITS, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED AT THREE DIAMETERS ON CENTER, OR 4" MINIMUM.
- ALUMINUM CONDUIT OR PIPING SHALL NOT BE CAST IN CONCRETE.
- PROVIDE MINIMUM COVER PER ACI 318-08, 7.7.1 (IBC 2009), ACI 318-14 20.6.1 (IBC 2012-2018), ACI 318-19 20.5.1 (IBC 2021).
- ALL LAPS SHALL BE CLASS B PER ACI 318 UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS, OR UNLESS THE DETAILER TAKES SPECIAL CARE TO PROVIDE STAGGERED LAPS. USE TOP BAR LAP LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 12 INCHES DEEP.
- THE CONTRACTOR SHALL SUBMIT THE FOLLOWING:
  - CERTIFIED COPIES OF MIX DESIGNS FOR EACH CONCRETE CLASS SPECIFIED INCLUDING COMPRESSIVE STRENGTH TEST REPORTS. SUBMIT MIX DESIGNS TO THE ENGINEER 7 DAYS PRIOR TO FIRST POUR.
  - CERTIFICATION THAT MATERIALS MEET REQUIREMENTS SPECIFIED.
- READY-MIXED CONCRETE SHALL MEET REQUIREMENTS OF ASTM C94.
- PREPARE DESIGN MIXES FOR EACH TYPE AND STRENGTH OF CONCRETE. DESIGN CONCRETE IN ACCORDANCE WITH ACI 318, CHAPTER 5, "PROPORTIONING ON THE BASIS OF FIELD EXPERIENCE OR TRIAL MIXTURES".
- WATERREDUCING ADMIXTURES SHALL CONFORM WITH ASTM C494 TYPE A.
- AIR-ENTRAINING ADMIXTURES SHALL CONFORM WITH ASTM C260.
- PLACE CONCRETE IN COMPLIANCE WITH ACI 304.
- CURE CONCRETE IN ACCORDANCE WITH THE RECOMMENDATION OF ACI 308.
- CONCRETE SURFACE FINISHES
  - FOOTINGS AND FOUNDATION WALLS NOT EXPOSED TO VIEW: FORM FINISHED.
  - SURFACES EXPOSED TO VIEW: SEE ARCHITECTURAL DRAWINGS FOR FINISH INFO.
  - TOPPING OVER STEEL DECK: STEEL TROWEL FINISHED.

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PROJECT NUMBER 182836

### SEAL

ISSUED FOR: ISSUED FOR BID 10/31/2023

REVISION FOR: NO. DESCRIPTION DATE

## MILD REINFORCING STEEL MINIMUM CLEAR COVER

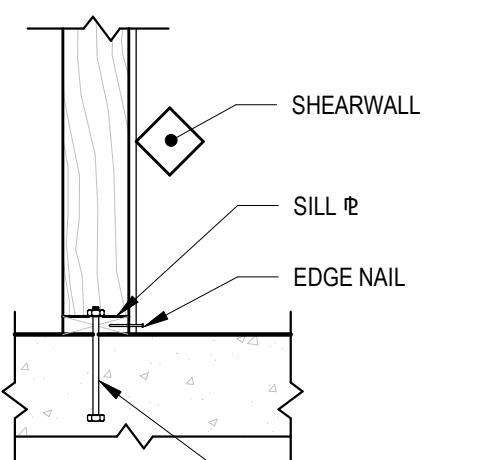
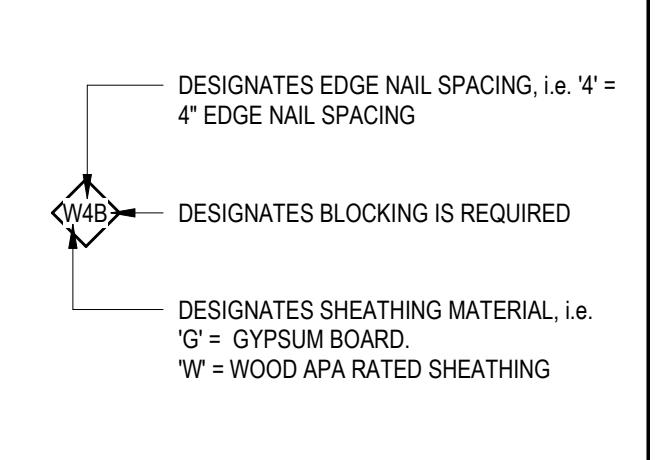
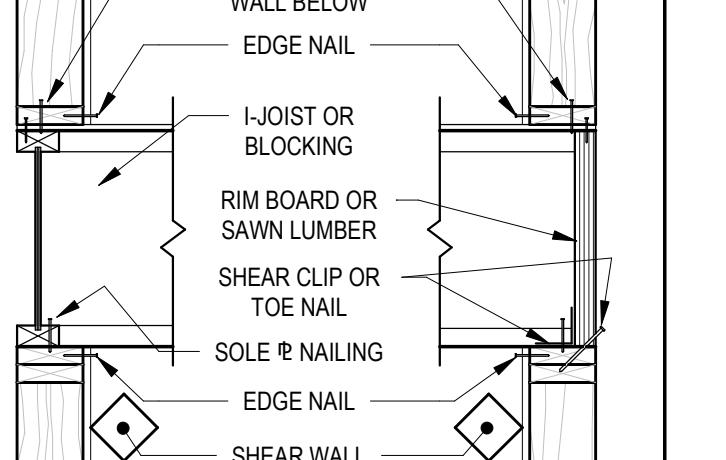
- CONCRETE CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH:  
FOOTINGS: 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER:  
WALLS, COLUMNS, BEAMS:  
UP THROUGH #5 BARS #6 THRU #18 BARS 1 1/2"  
ELEVATED SLABS:  
TOP 3/4"  
BOTTOM 1"  
BEAMS: 1 1/2"  
TOP/BOTTOM/SIDE: 1 1/2"  
COLUMN: SIDES 1 1/2"
- (DIMENSIONS ABOVE ARE MINIMUMS, UNLESS NOTED OTHERWISE IN DETAILS)

## CONCRETE REINFORCING SPICE LENGTH TABLE

REBAR SIZE <sup>(1)</sup>	CONCRETE REINFORCING SPICE LENGTH TABLE PER ACI 318-05 - (INCHES)								
	FTG <sup>(2)</sup>	GRADE BEAM <sup>(3)</sup> (TOP)	GRADE BEAM <sup>(3)</sup> (BOTTOM)	WALL <sup>(4)</sup> HORIZ	WALL <sup>(4)</sup> VERT	SLAB <sup>(5)</sup>	BEAM <sup>(6)</sup> (TOP)	BEAM <sup>(6)</sup> (BOT)	COLUMN <sup>(7)</sup>
#3	21	24	18	18	18	24	18	12	
#4	29	32	25	25	25	32	25	15	
#5	36	40	31	31	31	40	31	19	
#6	43	48	37	37	37	48	37	23	
#7	62	70	54	54					

MAX HEIGHT	LOCATION	SIZE/SPACING	SPECIES/GRADE	TOP PLATES	BOTTOM PLATES	F <sub>b</sub> (psi)	F <sub>c</sub> (psi)	E (ksi)
12'-6"	EXTERIOR WALLS	2x6 @ 16" OC	SPF No.1/No.2	(2) 2x6 SYP OR DFL, No.2	(1) 2x6 TREATED SYP No.2	875	1150	1400
	OTHER INTERIOR LOAD BEARING WALLS	2x6 @ 16" OC	SPF No.1/No.2	(2) 2x6 SYP OR DFL, No.2	(1) 2x6 TREATED SYP No.2	875	1150	1400
<b>LEGEND:</b>								
SYP = SPRUCE PINE FIR DFL = DOUGLAS FIR LARCH SYP = SOUTHERN YELLOW PINE LSL = LAMINATED STRAND LUMBER								
<b>SCHEDULE NOTES:</b>								
1. TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL BUILDING IS COMPLETELY SHEATHED AND LATERAL LOAD RESISTING SYSTEMS (SHEAR WALLS, ETC.) ARE IN PLACE. 2. ATTACH AT CONTINUOUS 2x WOOD MEMBER AT MID-HEIGHT OF ALL LOAD BEARING STUDS AND LEAVE IN PLACE UNTIL SHEATHING IS APPLIED TO AT LEAST ONE SIDE OF THE WALL. 3. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND SUPPLYING APPROPRIATE TEMPORARY BRACING OF THE STRUCTURE TO RESIST WIND AND SEISMIC LOADS UNTIL THE PERMANENT LATERAL LOAD RESISTING SYSTEMS ARE IN PLACE. 4. ALL NON-LOAD BEARING WALLS SHALL BE 2x4's @ 16" OC MINIMUM SPF STUD GRADE. 5. ALL WOOD PLATES BEARING DIRECTLY ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED SYP, DFL, OR LSL.								

### SHEAR WALL SCHEDULE & TYP. SHEAR TRANSFER DETAILS

SHEARWALL SYMBOL (1) (2)	SHEATHING	BLOCKING REQUIRED (3)	FASTENER SPACING	ANCHOR BOLTS (9) (10) (11)	SOLE PLATE NAILING (11)	shear clip or toe nail (11) (12) (13)
G8	5/8" GYPSUM BOARD (4)	NO	8"OC EDGES & 12"OC FIELD (6)	1/2"Ø @ 4'-0"OC	16d @ 24"OC	A35 @ 6'-0"OC OR 10d @ 1'-6"OC
G8B	5/8" GYPSUM BOARD (4)	YES	8"OC EDGES & 12"OC FIELD (6)	1/2"Ø @ 4'-0"OC	16d @ 20"OC	A35 @ 6'-0"OC OR 10d @ 1'-0"OC
G7	5/8" GYPSUM BOARD (4)	NO	7"OC EDGES & FIELD (6)	1/2"Ø @ 4'-0"OC	16d @ 16"OC	A35 @ 6'-0"OC OR 10d @ 10"OC
G7B	5/8" GYPSUM BOARD (4)	YES	7"OC EDGES & 12"OC FIELD (6)	1/2"Ø @ 4'-0"OC	16d @ 12"OC	A35 @ 6'-0"OC OR 10d @ 8"OC
G4	5/8" GYPSUM BOARD (4)	NO	4"OC EDGES & FIELD (6)	1/2"Ø @ 4'-0"OC	16d @ 12"OC	A35 @ 6'-0"OC OR 10d @ 8"OC
G4B	5/8" GYPSUM BOARD (4)	YES	4"OC EDGES & FIELD (6)	1/2"Ø @ 4'-0"OC	16d @ 9"OC	A35 @ 6'-0"OC OR 10d @ 6"OC
W6B	7/16" APA RATED SHEATHING (5)	YES	6"OC EDGES & 12"OC FIELD (7)	1/2"Ø @ 3'-0"OC	16d @ 5"OC	A35 @ 16"OC
W4B	7/16" APA RATED SHEATHING (5)	YES	4"OC EDGES & 12"OC FIELD (7)	1/2"Ø @ 2'-0"OC	16d @ 3"OC	A35 @ 10"OC
G97B	2-PLIES 5/8" GYPSUM BOARD (4)	YES	9"OC BASE PLY (6) 7"OC FACE PLY (8)	1/2"Ø @ 3'-0"OC	16d @ 5"OC	A35 @ 16"OC
SECTION AT SILL PLATE		KEY		SECTION AT FLOOR FRAMING		
						

SCHEDULE NOTES:
1. SEE SHEARWALL DETAILS 8/S303 & 9/S303.
2. DO NOT EXCEED 16" OC STUD SPACING AT SHEARWALLS.
3. WHEN BLOCKING IS REQUIRED, USE 2x BLOCKING AT ALL PANEL EDGES, SAME DEPTH AS STUD, AND PROVIDE EDGE NAILING AT ALL SUPPORTS & PANEL EDGES.
4. APPLY SHEATHING PANELS EITHER VERTICALLY OR HORIZONTALLY IN 4'-0" OR WIDER SHEETS ONLY.
5. APPLY SHEATHING PANELS HORIZONTALLY WITH LONG DIMENSION ACROSS STUDS IN 4'-0" OR WIDER SHEETS ONLY.
6. USE 6d COOLER NAILS OR #6 x 1/4" TYPE 'S' OR 'W' DRYWALL SCREWS.
7. USE 8d COMMON OR GALVANIZED BOX NAILS.
8. USE 8d COOLER NAILS OR #6 x 1/4" TYPE 'S' OR 'W' DRYWALL SCREWS ONLY.
9. USE HILTI KWIK BOLT II EXPANSION ANCHORS & WASHER w/ 3 1/2" EMBEDMENT INTO CONCRETE, HILTI HUS-H SCREW ANCHOR w/ 3" EMBEDMENT INTO CONCRETE, SIMPSON TITEN HD SCREW ANCHOR w/ 3" INTO EMBEDMENT CONCRETE, OR NUT & WASHER w/ CAST IN 1/2" Ø x 7" LONG HOOKED ANCHOR BOLTS INTO CONCRETE.
10. AT EXTERIOR WALLS OR AT EDGE OF CONCRETE SLAB, ANCHOR SILL PLATE WITH 3/8"Ø EXPANSION ANCHORS w/ 2 1/2" EMBEDDED INTO CONCRETE & 12" OC SPACING OR 1/2"Ø SCREW ANCHORS @ 24" OC SPACING MAX. U.N.C.
11. WHEN SHEATHING APPLIED TO BOTH FACES OF STUD, REDUCE ANCHOR BOLT, SOLE PLATE NAILING & SHEAR CLIP/TOE NAIL SPACING BY ONE HALF.
12. TOE NAILS SHALL BE COMMON OR GALVANIZED BOX NAILS. TOE NAILING MUST BE FROM OUTSIDE FACE OF RIMBOARD. IF OUTSIDE FACE IS NOT ACCESSIBLE USE SHEAR CLIP OPTION.
13. "A35" REFERS TO SIMPSON OR EQUAL A35 CLIP ANGLE.

### ROOF TRUSS SCHEDULE

MARK	DEPTH	SPACING	LL (psf)	T.C. DL (psf)	B.C. DL (psf)	LL DEF'LIMIT	TL DEF'LIMIT	REMARKS
RT-1	VARIES	24"	25	15	5	L/360	L/240	PITCHED TOP CHORD, SEE PLAN FOR ADD'L LOADS

### LINTEL SCHEDULE

MARK	SIZE	CONFIGURATION	REMARKS
L1	8"x8" CMU BOND BEAM w/ (2) #5 x CONT	GROUT SOLID OVER OPENING WIDTH PLUS 8" EACH END	CMU PIER (2) TYP, UNO
L1 (ALTERNATE)	W8x10 w/ (2) 5/16x7" x CONT	EQUAL INFLI FOLLOWING ERECTION 3/16" V 3-12"	CMU PIER (2) TYP, UNO

GENERAL NOTES:	
1. PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS, U.N.O.	
2. PROVIDE MINIMUM OF 3 COURSES SOLID GROUTED CMU BELOW LINTEL BEARING (UNLESS OTHERWISE NOTED). SEE MASONRY WALL SCHEDULE.	
3. CENTER BEAMS WITHIN WIDTH OF BLOCK UNLESS NOTED OTHERWISE.	
4. PROVIDE ADJUSTABLE MASONRY ANCHORS ON WEBS/FLANGES AT 32"OC, AND ON UNDERSIDE OF BOTTOM PLATE FOR LINTELS IN FUTURE OPENINGS.	
5. PROVIDE HORIZONTAL REINFORCING IN THE JOINT ABOVE THE LINTEL, AND EXTEND 24" BEYOND EDGE OF OPENING.	
6. REFER TO ARCHITECTURAL DRAWINGS FOR OPENING LOCATIONS, ELEVATIONS, & SIZES.	
7. EXTEND BOTTOM PLATES FULL LENGTH OF LINTEL, INCLUDING BEARING.	
8. SHORE ALL CMU LINTELS UNTIL GROUT HAS CURED.	
9. BOTTOM PLATE TO BE 1" NARROWER THAN NOMINAL TOTAL WALL THICKNESS, WRAP ENDS OF STEEL LINTEL w/ BUILDING PAPER AND GROUT SOLID. VERIFY WALL THICKNESS w/ PLATE WIDTH INDICATED IN SCHEDULE.	
10. LOOSE BRICK LINTELS, SEE LOOSE BRICK/VENEER LINTEL SCHEDULE.	
11. STEEL LINTELS EXCEEDING 12'-0" IN LENGTH SHALL HAVE 1/2" DIAMETER x 6" LONG HEADED STUDS WELDED TO TOP AT 24" OC. ALL CORES OF MASONRY COURSE DIRECTLY ABOVE LINTEL SHALL BE GROUTED SOLID w/ (2) #5 CONTINUOUS.	

### HEADER SCHEDULE

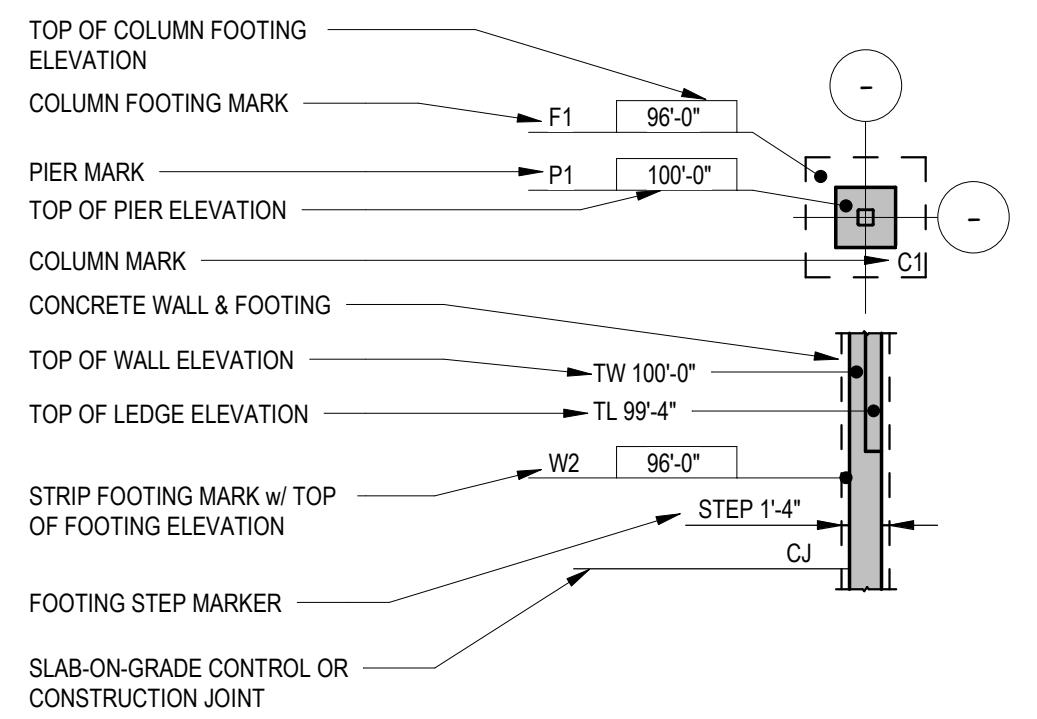
MARK	TYPE	SHOULDER STUDS, UNO	REMARKS
H1	(2) 2x6 SPF No.1/No.2	1	-
H2	(3) 2x10 SPF No.1/No.2	2	-
H3	(3) 2x12 SPF No.1/No.2	2	-
H4	(3) 3-1/4" x 9-1/4" LVL	2	-
H5	(3) 1-3/4" x 11-1/4" LVL	3	-

SCHEDULE NOTES:	
1. SEE DETAIL 5/S303 FOR TYPICAL HEADER FRAMING INFORMATION.	
2. PROVIDE FULL HEIGHT SPF No.1/No.2 KING STUDS ADJACENT TO EACH HEADER LOCATION ACCORDING TO THE FOLLOWING:	
OPENINGS < 5'-0" 1 STUD 5'-0" < OPENINGS < 9'-0" 2 STUDS 9'-0" < OPENINGS < 12'-0" 3 STUDS	
3. AT CONTRACTOR'S OPTION, LARGER MEMBERS w/ EQUAL OR BETTER DESIGN PROPERTIES MAY BE SUBSTITUTED FOR SIZES LISTED ABOVE PROVIDED IT DOES NOT CHANGE THE STRUCTURAL OR ARCHITECTURAL DESIGN INTENT.	
4. ABOVE HEADER SIZES DESIGNATED WITH AN 'R' ON PLAN SHALL BE RECESSED, ex. 'H6-R'. ALL HEADERS NOT ABOVE DOORS OR WINDOWS TO BE FLUSH WITH CEILING, U.N.O.	
5. AT NON-TREATED, EXPOSED, EXTERIOR HEADERS, BOX OUT HEADERS AS SHOWN ON ARCH DWGS TO WEATHER PROOF.	
6. SHOULDER STUDS TO BE OF SAME SPECIES AND GRADE AS BRG. WALLS UNLESS NOTED OTHERWISE. REFER TO SCHEDULE.	
7. WHERE HEADER PLES ARE LESS THAN THE CORRESPONDING WALL WIDTH, THE HEADER SHALL BE MODIFIED ACCORDING TO DETAIL 13/S303.	
8. SEE DETAILS 1/S303 & 9/S303 FOR PLY CONNECTION ASSEMBLIES.	
9. SEE DETAILS 4/S303 & 5/S303 FOR ALLOWABLE HOLES IN NOTCHES IN HEADERS.	

### WOOD POST SCHEDULE

MARK	TYPE	POST BASE	REMARKS
PP-46	3-1/2"x5-1/4" PSL		
PP-66	5-1/4"x5-1/4" PSL		
PP-68	5-1/4"x7-1/4" PSL		
WP-26	(2) 2x6 SPF No.1/No.2		
WP-36	(3) 2x6 SPF No.1/No.2		
WP-44	4x4 SPF No.1/No.2		
WP-46	(4) 2x6 SPF No.1/No.2		
WP-46A	4x6 SPF No.2		
WP-66			

## FOUNDATION LEGEND



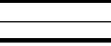
# FOUNDATION PLAN NOTES

1. CONTRACTOR SHALL PROVIDE FROST AND MOISTURE PROTECTION FOR FOOTINGS EXPOSED DURING CONSTRUCTION.
  2. REFER TO ARCHITECTURAL DRAWINGS OR PLUMBING DRAWINGS FOR SPECIFIC FLOOR DRAIN LOCATIONS & ELEVATIONS.
  3. FOOTING EXCAVATIONS SHALL BE EXAMINED BY THE GEOTECHNICAL ENGINEER TO CONFIRM THAT THE SOILS AT THE BOTTOM OF THE EXCAVATION ARE CAPABLE OF PROVIDING THE ALLOWABLE SOIL BEARING PRESSURE AS INDICATED IN THE DESIGN DATA. CONTACT ARCH/ENGINEER IF UNABLE TO ATTAIN THIS SOIL BEARING PRESSURE.
    - a. OVEREXCAVATION AND PLACEMENT OF ENGINEERED FILL BELOW FOOTINGS WILL BE REQUIRED. COORDINATE LOCATION, DEPTH AND EXTENT WITH GEOTECHNICAL ENGINEER AND REPORT. REFER TO GEOTECHNICAL REPORT FOR RECOMMENDATIONS OF ENGINEERED FILL MATERIALS. SEE DETAILS 3/S201 AND 4/S201 FOR ADDITIONAL INFORMATION.
  4. VERIFY SIZES OF ALL STOOPS WITH ARCHITECT PRIOR TO CONSTRUCTION.
  5. CENTER COLUMN AND WALL FOOTINGS ON SUPPORTED MEMBER CENTERLINES UNO.
  6. NO PROVISION HAS BEEN MADE FOR FUTURE EXPANSION.
  7. REFER TO S001, S002 & S003 FOR ALL STRUCTURAL NOTES & SCHEDULES. REFER TO S201 FOR MISCELLANEOUS DETAILS NOT CUT ON PLAN.
  8. SEE THIS SHEET AND HOLDOWN SCHEDULE ON S003 FOR HOLDOWN LOCATIONS. SEE DETAIL 5/S202 FOR HOLDOWN ATTACHMENT.
  9. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR MATERIAL FABRICATION. NOTIFY ENGINEER FOR POSSIBLE REMEDIAL ACTION IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN HRF.

## COLUMN SCHEDULE

MARK	SIZE	BASE PL	ANCHOR ROD EMBEDMENT	REMARKS
C1	HSS5x5x1/4	PL 3/4"x11"x0'-11" w/ (4) 3/4"Ø A.B.'S	9"	-
C2	HSS6x6x1/4	PL 3/4"x12"x1'-0" w/ (4) 3/4"Ø A.B.'S	9"	-

## CONCRETE PIER SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
P1	16"x16"	(8) #5 VERTICAL w/ #3 TIES @ 12"OC	
P2	18"x18"	(8) #6 VERTICAL w/ #3 TIES @ 12"OC	
P3	24"x24"	(8) #8 VERTICAL w/ #3 TIES @ 12"OC	

## FOOTING SCHEDULE F

MARK	DIMENSIONS			REINFORCEMENT	REMARKS
	WIDTH	LENGTH	DEPTH		
F3	3'-0"	3'-0"	1'-0"	(4) #5 EW BOT	
F4	4'-0"	4'-0"	1'-0"	(5) #5 EW BOT	
F5	5'-0"	5'-0"	1'-0"	(6) #5 EW BOT	
W1	1'-6"	CONT	1'-0"	(2) #5 x CONT	
W2	2'-0"	CONT	1'-0"	(2) #5 x CONT	

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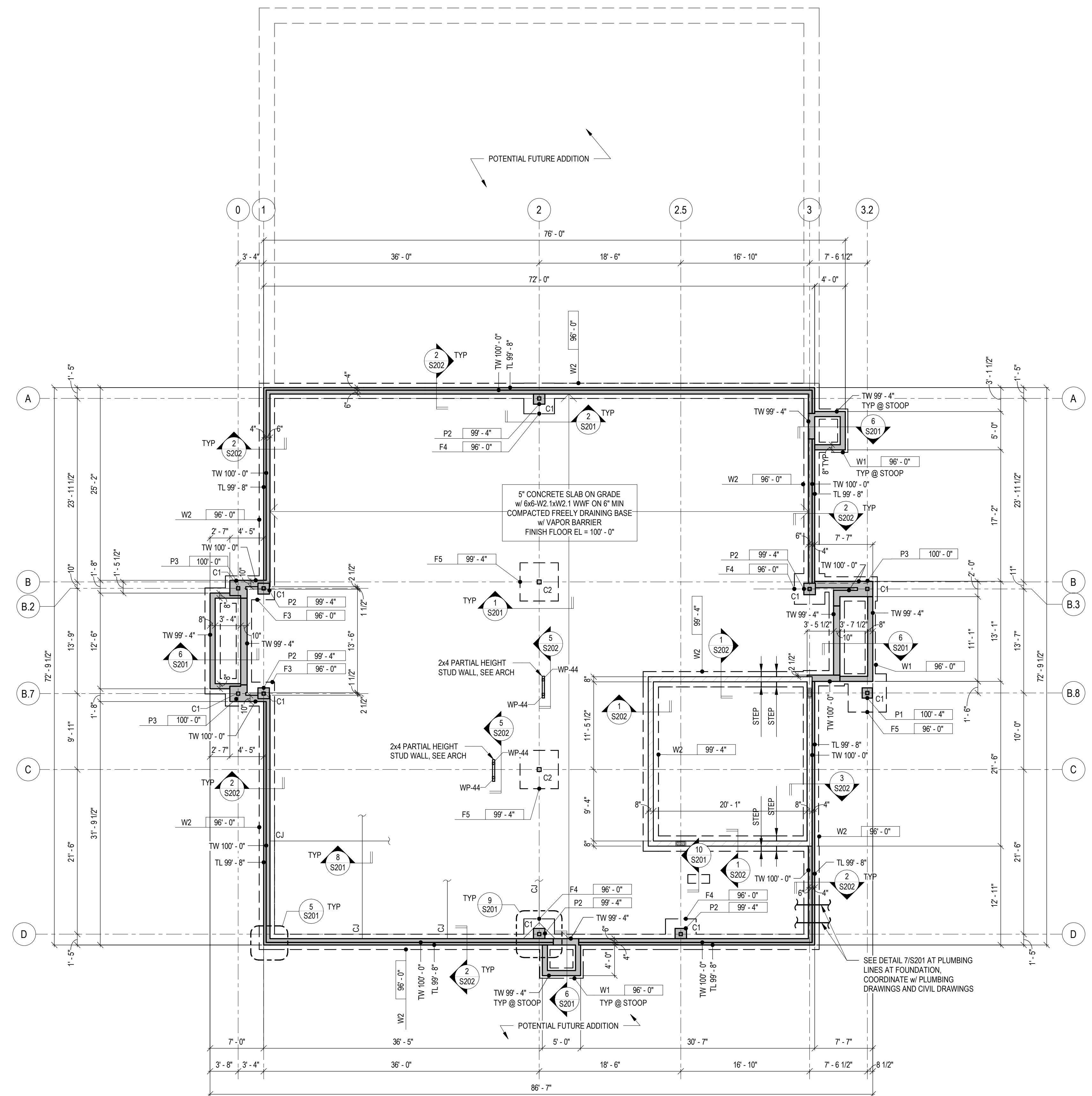
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REVISION FOR:	
NO.	DESCRIPTION
1	ADDENDUM 02
2	PR 02
3	PP 10

## DRAWN BY

# FOUNDATION PLAN





# FOUNDATION PLAN

SCALE : 1/8" = 1'-0"

SCALE: 1/8" = 11' 0"

SCALE : 1/8" = 1'-0"



The diagram illustrates a structural connection between a beam and a column. A vertical line represents the column, and a horizontal line represents the beam. The beam is connected to the column at two points, indicated by small squares. The top connection is labeled 'BEAM CANTILEVER'. The middle connection is labeled 'BEAM SPlice'. The bottom connection is labeled 'BEAM FRAMED INTO SIDE OF HSS COLUMN'. At the top connection, there is a bracketed label 'W8x24 / (C-)' pointing to the column. At the middle connection, there is a bracketed label '30K' pointing to the column. At the bottom connection, there is a bracketed label 'W16x31 (12) (110'-0")' pointing to the column. Other labels include 'BEAM FRAMED OVER BEAM', 'BEAM FRAMED OVER WF COLUMN', 'COLUMN SIZE / MARK', 'BEAM-TO-COLUMN MOMENT CONNECTION REACTION', 'BEAMS FRAMED INTO SIDE OF WF COLUMN', 'BEAM REACTION (SERVICE LOAD)', 'BEAMS FRAMED INTO SIDE OF BEAM', 'NUMBER OF SHEAR STUDS ON STEEL COMPOSITE BEAM', 'BEAM SIZE / DESIGNATION w/ TOP OF STEEL OR JOIST BEARING ELEVATION', 'HSS COLUMN ABOVE BEAM', and 'BEAM FRAMED INTO SIDE OF HSS COLUMN'.

# STEEL FRAMING NOTES

1. REFER TO S001, S002 & S003 FOR GENERAL STRUCTURAL NOTES.
  2. SEE DETAIL 12/S301 FOR TYPICAL BEARING PLATES AT STEEL BEAMS BEARING ON MASONRY WALLS.

## MEZZANINE FRAMING NOTES

1. MEZZANINE FLOOR CONSTRUCTION SHALL BE PRECAST HOLLOWCORE PLANK WITH TOPPING, OF THICKNESS INDICATED IN PRECAST SCHEDULE.
  2. IMPOSED SERVICE LIVE LOADS (IN EXCESS OF PLANK AND TOPPING) ARE NOTED IN THE SCHEDULE.
  3. GROUT PLANK KEYWAYS IN ACCORDANCE w/ MANUFACTURER'S RECOMMENDATIONS.
  4.  DENOTES DIRECTION OF PRECAST PLANK SPAN.
  5. SEE SHEET S003 FOR MASONRY WALL AND MASONRY LINTEL SCHEDULES.

# PRECAST SCHEDULE

PRECAST MARK	PLANK DEPTH	NORMAL WEIGHT CONCRETE TOPPING w/ 6x6 w1.4xw1.4 WWF	LOAD INFORMATION		REQUIRED FIRE RATING
			DL (psf)	LL (psf)	
PC-1	8" HOLLOWCORE	STRUCTURAL TOPPING, 2" NOM THICKNESS	SELF WT. + TOPPING + 10 psf	100 psf	SEE ARCH

SEAL

---

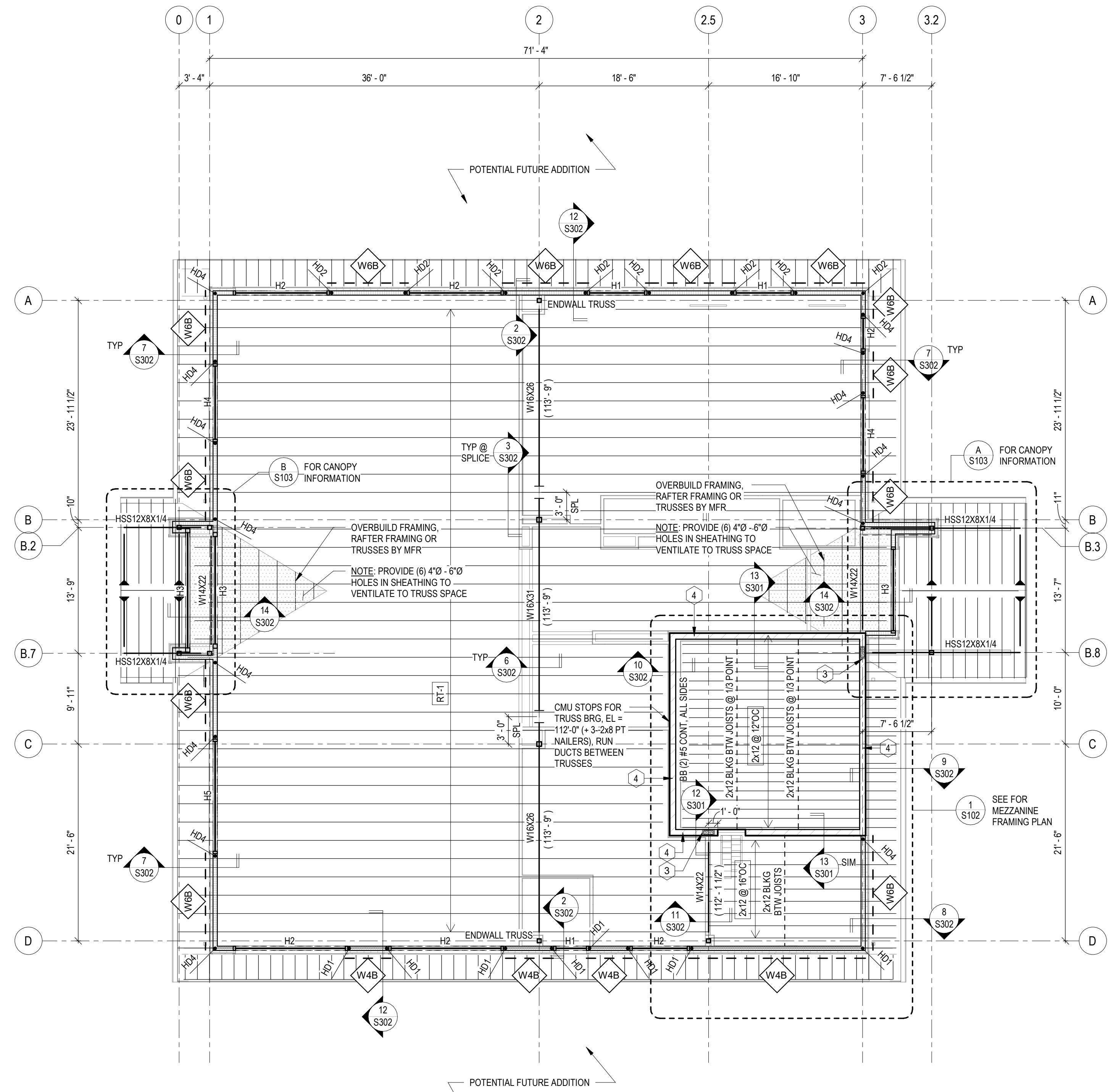
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1	PR 02	06-02-23
2	PR 10	06-02-23

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## **FRAMING PLAN**



**2**  
**S102**      **ROOF FRAMING PLAN**  
SCALE : 1/8" = 1'-0"



# MEZZANINE FRAMING PLAN

SCALE : 1/8" = 1'-0"





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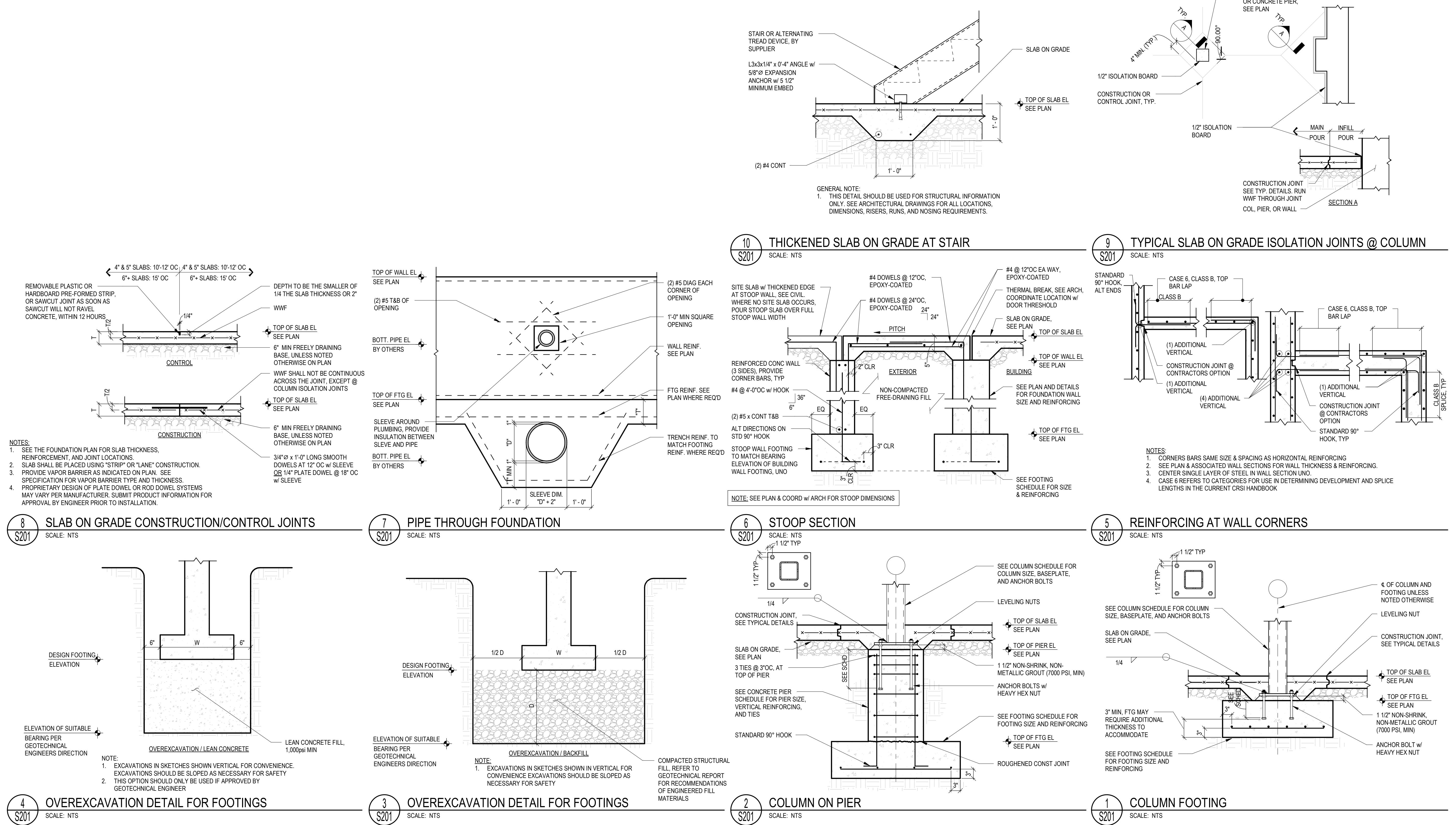
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# FOUNDATION DETAILS

S201



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10/31/2023

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1	ADDENDUM 02	04-14-2023
2	PR 01	06-02-23
3	PR 10	06-02-23

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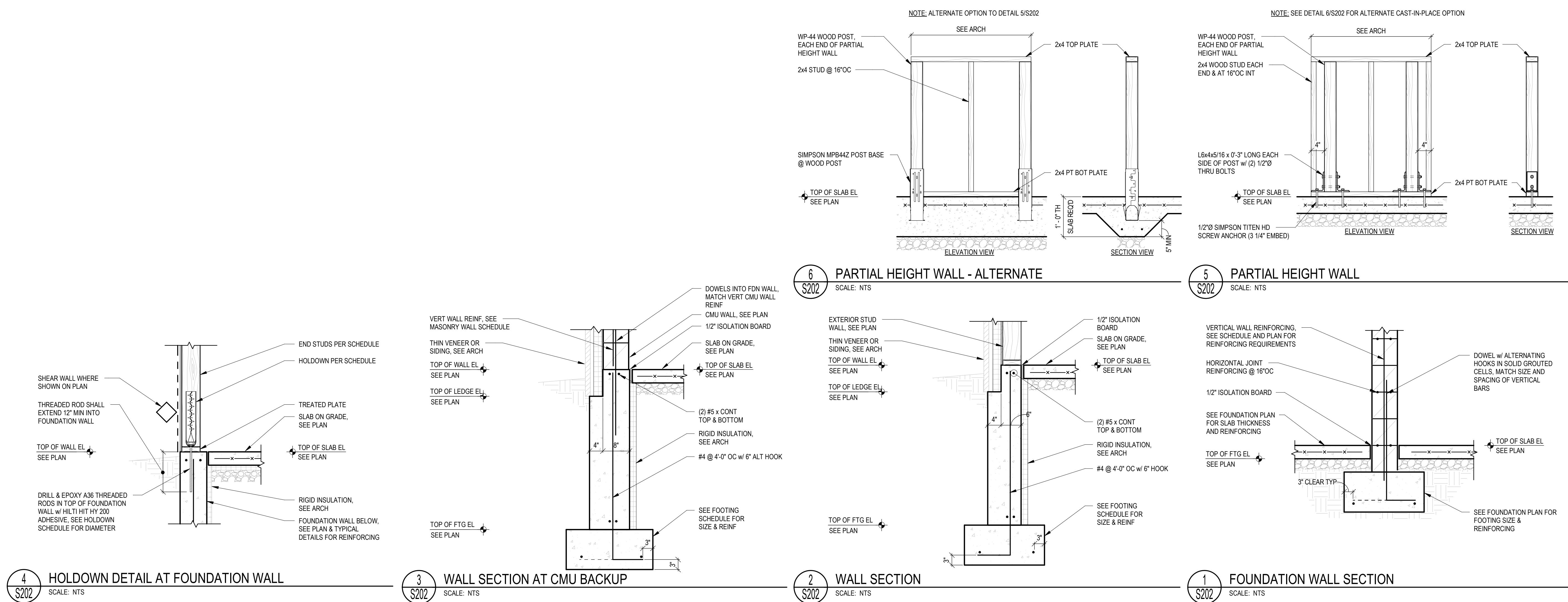
Author

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Checker

## FOUNDATION DETAILS

# S202

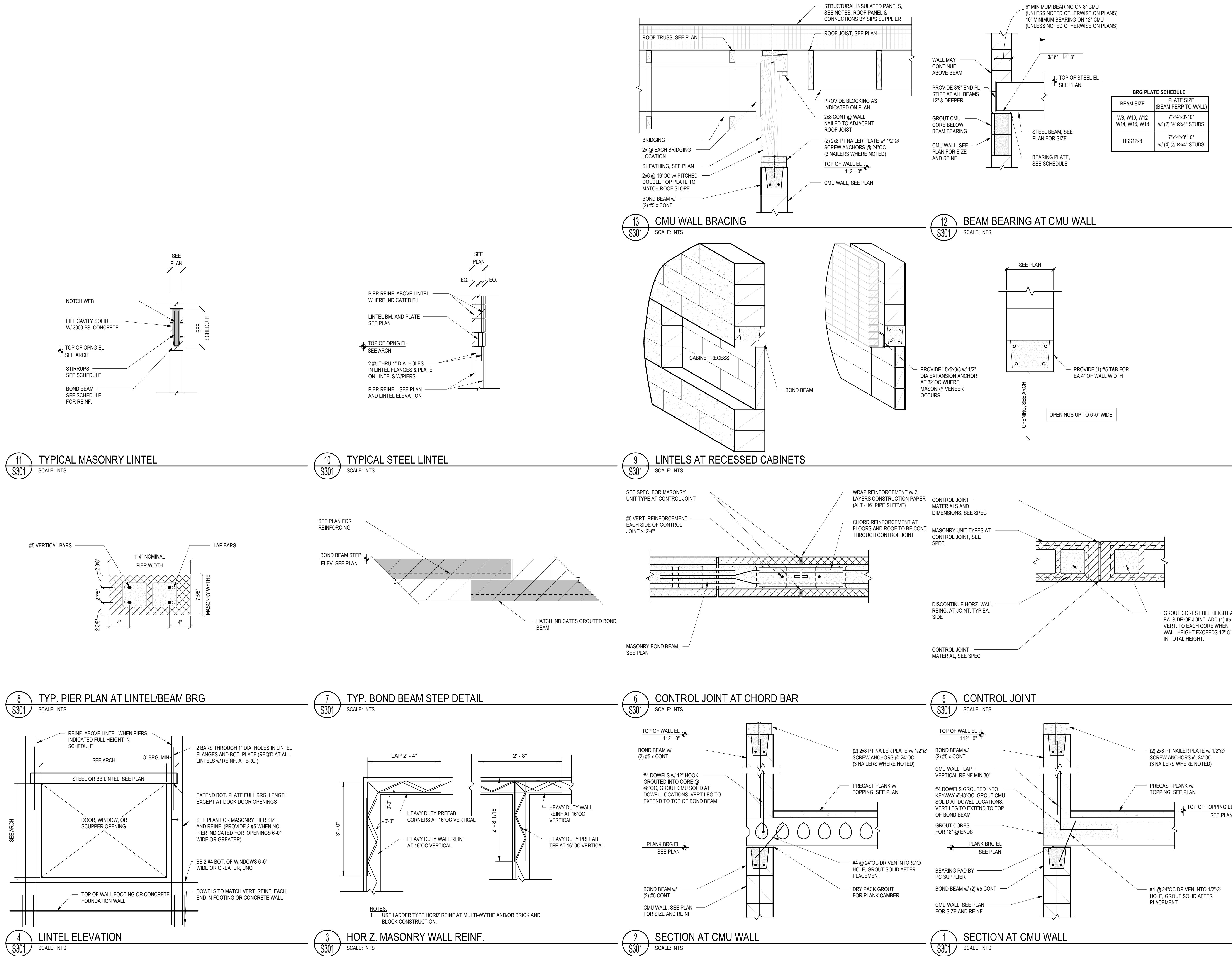


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**FRAMING DETAILS**

**S301**



**13 CMU WALL BRACING** S301 SCALE: NTS

**12 BEAM BEARING AT CMU WALL** S301 SCALE: NTS

**11 TYPICAL MASONRY LINTEL** S301 SCALE: NTS

**10 TYPICAL STEEL LINTEL** S301 SCALE: NTS

**9 LINTELS AT RECESSED CABINETS** S301 SCALE: NTS

**8 TYP. PIER PLAN AT LINTEL/BEAM BRG** S301 SCALE: NTS

**7 TYP. BOND BEAM STEP DETAIL** S301 SCALE: NTS

**6 CONTROL JOINT AT CHORD BAR** S301 SCALE: NTS

**5 CONTROL JOINT** S301 SCALE: NTS

**4 LINTEL ELEVATION** S301 SCALE: NTS

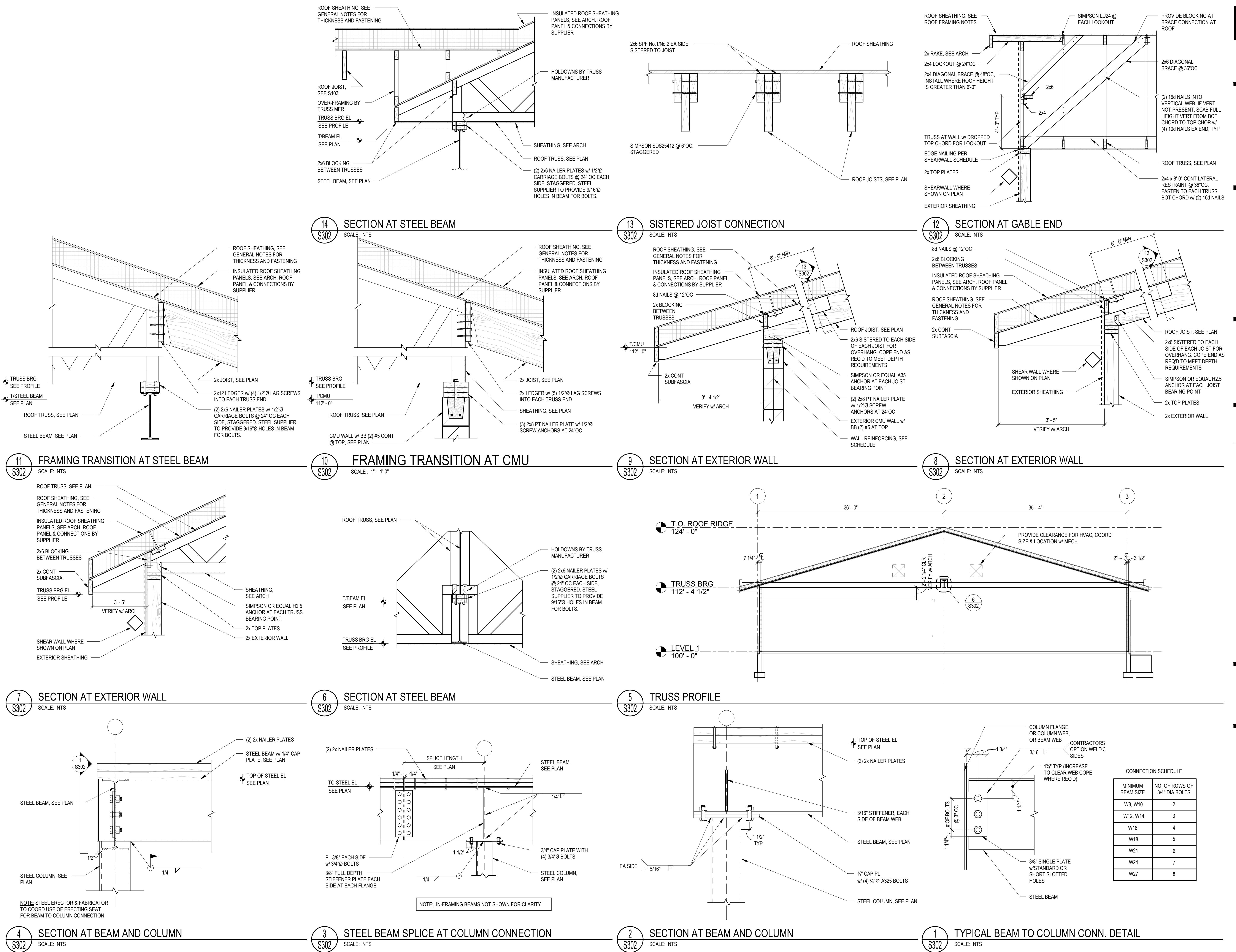
**3 HORIZ. MASONRY WALL REINF.** S301 SCALE: NTS

**2 SECTION AT CMU WALL** S301 SCALE: NTS

**1 SECTION AT CMU WALL** S301 SCALE: NTS

**BRG PLATE SCHEDULE**

BEAM SIZE	PLATE SIZE (BEAM PERP TO WALL)
WB, W10, W12	7x3/8x10"
W14, W16, W18	w/ (2) 1/2x4" STUDS
HSS12x8	7x3/8x10" w/ (4) 1/2x4" STUDS



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1 PR 03 06-02-23

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## FRAMING DETAILS

**S302**

MINIMUM BEAM SIZE	NO. OF ROWS OF 3/4" DIA BOLTS
W8, W10	2
W12, W14	3
W16	4
W18	5
W21	6
W24	7
W27	8



VIEW KEY	
NAME 10'-0"	LEVEL NAME HEIGHT ABOVE PROJECT 0'-0"
INDICATES DIRECTION OF TRUE NORTH	INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL
PLAN OR DETAIL NUMBER <b>VIEW NAME</b> 1/8" = 1'-0"	PLAN OR DETAIL NAME PLAN OR DETAIL SCALE
INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS SIM M101	DETAIL REFERRED TO BY SECTION CUT SIM SHEET DETAIL IS LOCATED ON T101
LINE TYPE AND TAG KEY:	
NEW WORK BY THIS CONTRACTOR (WIDE LINE)	
— NEW	
--- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)	
— NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)	
EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)	
— EXISTING	
--- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)	
— EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)	
HALFTONING DOES NOT MODIFY SCOPE.	
'TAG-E' TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING	
TAG-1 UNDERLINED TEXT INDICATES ADDITIONAL INFORMATION CAN BE FOUND ELSEWHERE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST	
♦ INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL	

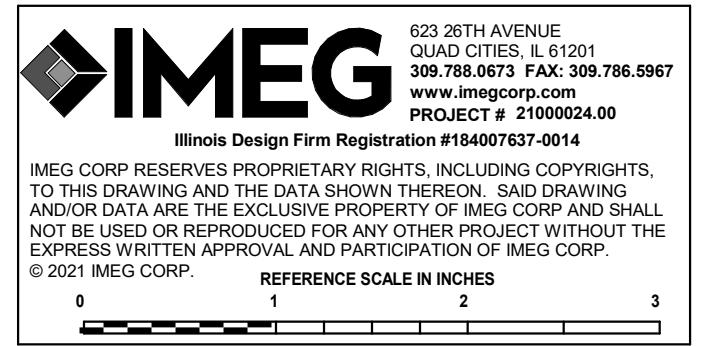
PLUMBING SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
CW	COLD WATER - POTABLE
D	DRAIN
G	NATURAL GAS
GSAN	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE)
HW	HOT WATER - POTABLE
SAN	SANITARY DRAINAGE
V	VENT
W	SERVICE WATER - POTABLE
→	PIPE CONTINUATION
→→	PIPE CAP
→○	PIPE DOWN
→○○	PIPE UP OR UP/DOWN
○FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
→○	PITCH PIPE IN DIRECTION
↓	DIRECTION OF FLOW IN PIPE
○	ROUTE TO DRAIN
II	DIELECTRIC CONNECTION
○○	UNION/FLANGE
○○○	SHUTOFF VALVE NORMALLY OPEN
○○○○	SHUTOFF VALVE NORMALLY CLOSED
○○○○○	CHECK VALVE
○○○○○○	BACKFLOW PREVENTER
○○○○○○○	SOLENOID VALVE
○○○○○○○○	SAFETY/RELIEF VALVE
○○○○○○○○○	VACUUM BREAKER
○○○○○○○○○○	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
○○○○○○○○○○○	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
○○○○○○○○○○○	TEMPERATURE SENSOR WITH WELL
○○○○○○○○○○○○	THERMOMETER WITH WELL (DIAL TYPE)
○○○○○○○○○○○○○	THERMOMETER WITH WELL (ILLED TYPE)
○○○○○○○○○○○○○○	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
○○○○○○○○○○○○○○○	PRESSURE REDUCING VALVE (LIQUID/GAS)
○○○○○○○○○○○○○○○○	PUMP
○○○○○○○○○○○○○○○○○	METER

PLUMBING ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
CO	CLEANOUT
DI	DUCTILE IRON
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GD	GARBAGE DISPOSER
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
MV	MIXING VALVE
SK	SINK
SS	SERVICE SINK
TD	TRENCH DRAIN
TYP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WM	WATER METER
UB	UTILITY BOX
YCO	YARD CLEANOUT

## MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE THE EXACT DIMENSIONS AND CLEARANCES REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
11. CALK ALL JOINTS AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN MINIMUM 3-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, AND OTHER EQUIPMENT.
16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.



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FIRE / SMOKE BARRIER DESIGNATIONS	
THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.	RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS.
1 HOUR FIRE PARTITION	---
2 HOUR FIRE BARRIER	---
APPLICABLE CODES	
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.	
BUILDING CODE:	IBC 2006 EDITION
FIRE CODE:	IFC 2006 EDITION
PLUMBING CODE:	ILLINOIS PLUMBING CODE CURRENT EDITION
MECHANICAL CODE:	IMC 2006 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2005 EDITION
LIFE SAFETY CODE:	NFPA 101 CURRENT EDITION
ENERGY CONSERVATION CODE:	IECC 2006 (ASHRAE 90.1 2004)
LOCAL BUILDING CODE:	CURRENT EDITION

CONTACT PERSONS:	
DESCRIPTION:	PERSON:
PROJECT MANAGER	MATT SNYDER
MECHANICAL	PETE COURTNEY
ELECTRICAL	MATT SNYDER
TECHNOLOGY	ALAN SWANSON
CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

## PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)  
1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE. 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINIMUM OF 2". 3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER.

TAG NAME	DESCRIPTION	COLD WATER	HOT WATER	SANITARY	VENT
EWC-1	PML ROUGH-IN FIXTURE UNITS	-	-	2"	1 1/2"
FD-1	FLOOR DRAIN	-	-	4"	2"
FS-1	FLOOR SINK	-	-	-	-
L-1	LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"
MB-1	MOP BASIN	3/4"	3/4"	3"	1 1/2"
SK-1	SINK	1/2"	1/2"	1 1/2"	1 1/2"
UB-1	UTILITY BOX	1/2"	-	-	-
UR-1	URINAL	3/4"	-	2"	1 1/2"
WC-1	WATER CLOSET (ACCESSIBLE)	1/2"	-	4"	2"
WC-2	WATER CLOSET	3/4"	-	4"	2"

## PLUMBING SLOPE REQUIREMENTS:

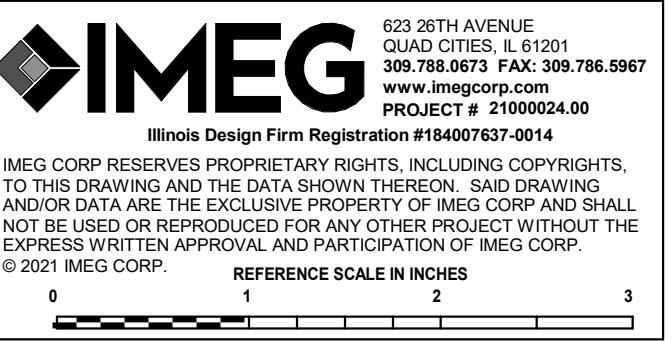
BASED ON PLUMBING CODE: ILLINOIS PLUMBING CODE

INTERIOR: SANITARY WASTE:	≤2-1/2" Ø=1/4" PER FOOT ≥3" Ø = 1/8" PER FOOT ≥8" Ø = 1/16" PER FOOT
CONDENSATE AND INDIRECT DRAINAGE: SANITARY:	1/8" PER FOOT NO SPECIFIC PITCH, PITCH TO FIXTURES
DOMESTIC WATER:	NO SPECIFIC PITCH, PITCH TO FIXTURES

## PLUMBING SHEET INDEX

P000	PLUMBING COVERSHEET
P200	UNDERFLOOR - PLUMBING
P201	MAIN & MEZZANINE LEVEL - PLUMBING
P300	PLUMBING DETAILS
P500	PLUMBING MATERIAL LIST

GRAND TOTAL: 5</p

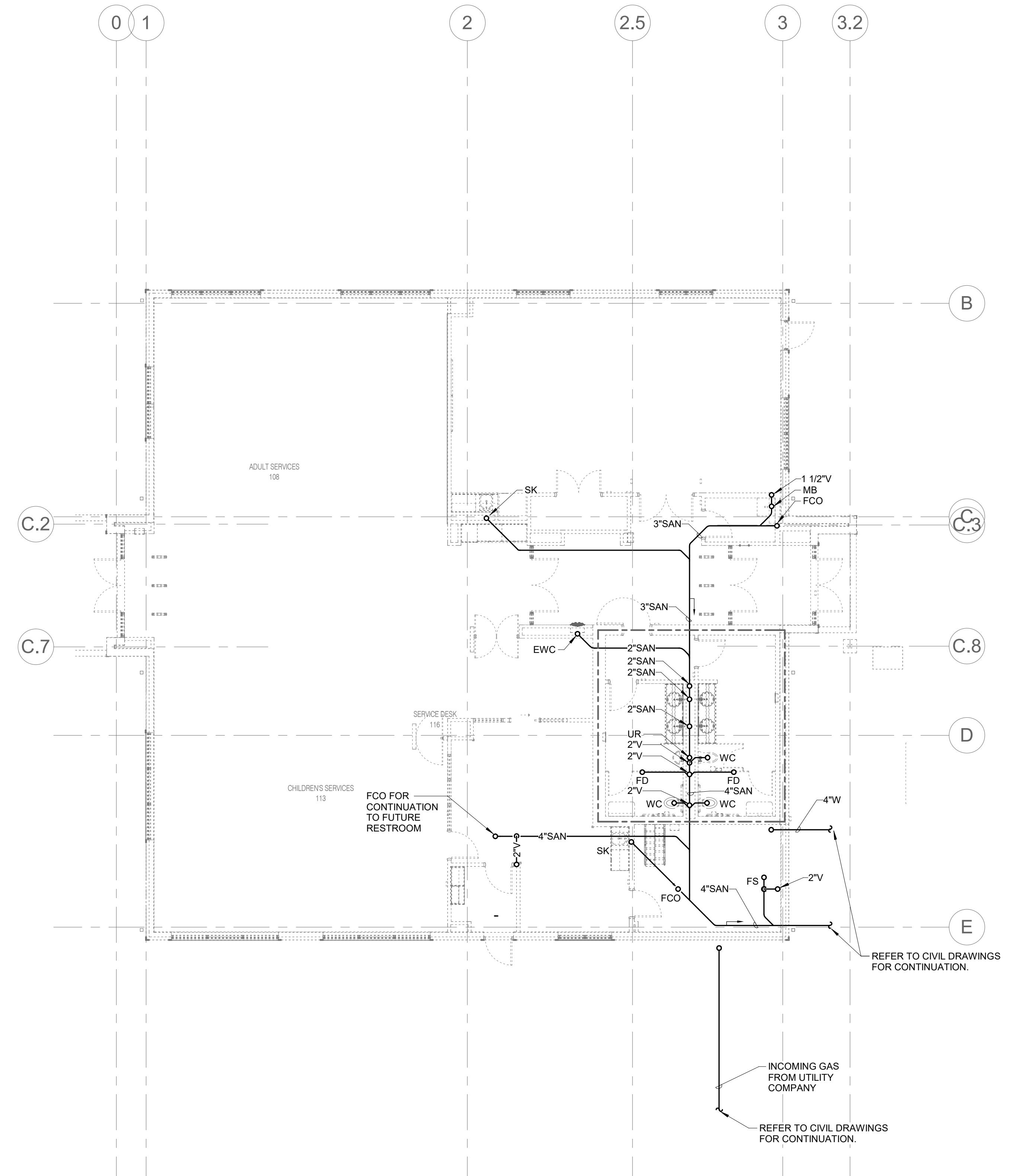


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PROJECT NUMBER 182836



1 UNDERFLOOR - PLUMBING  
1/8" = 1'-0"

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CHECKED BY PETCOU

UNDERFLOOR -  
PLUMBING

P200



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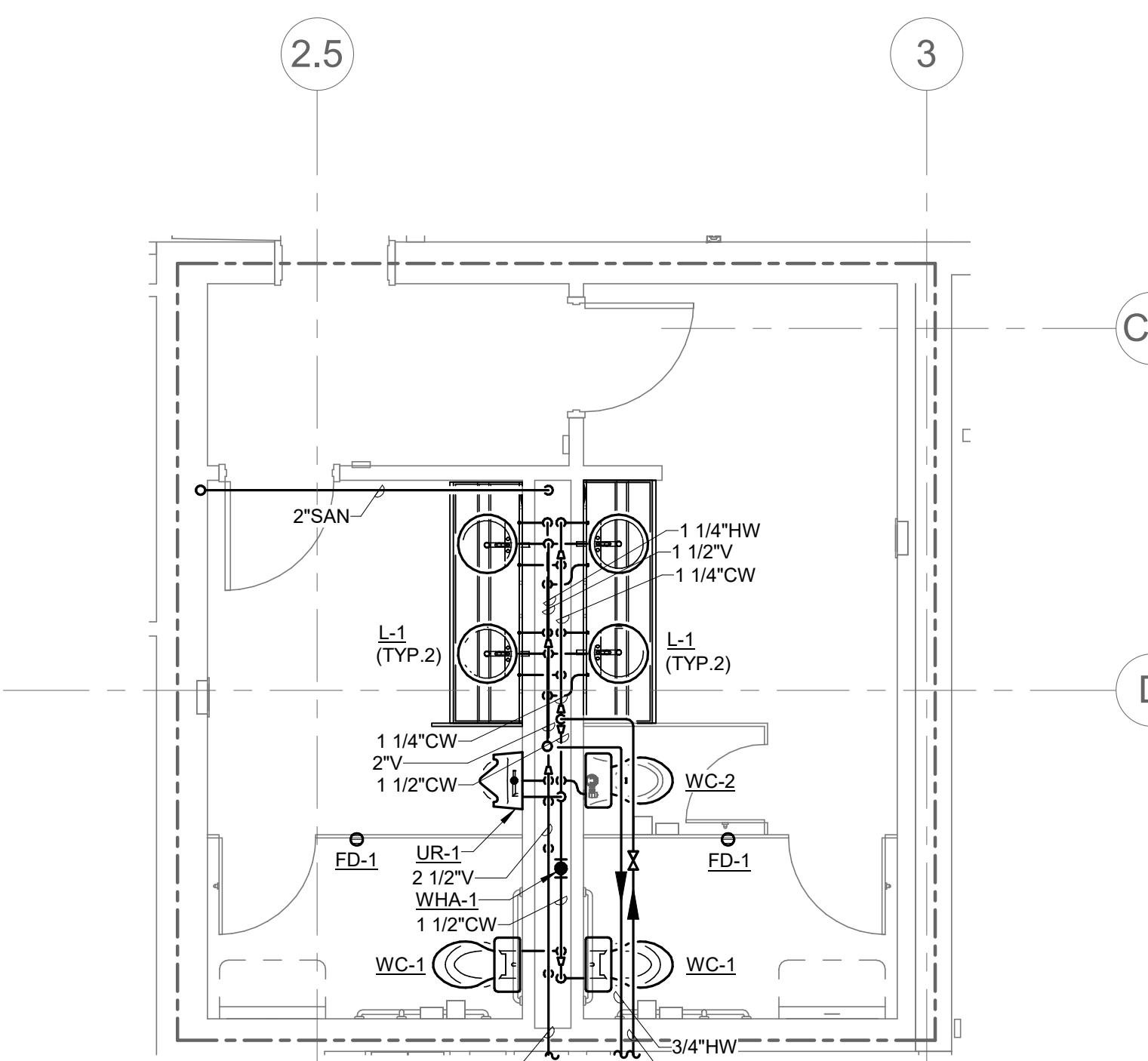
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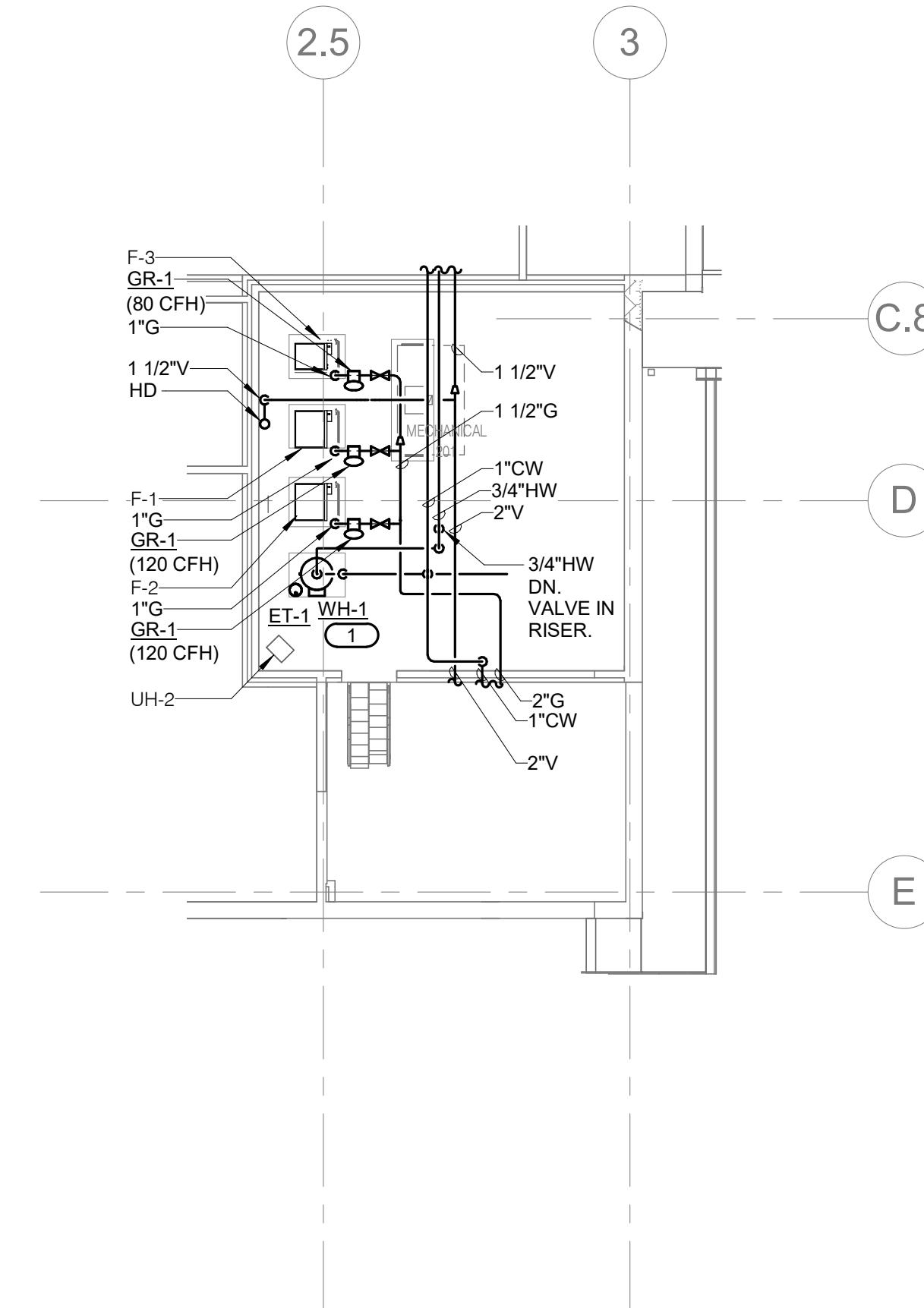
### SEAL

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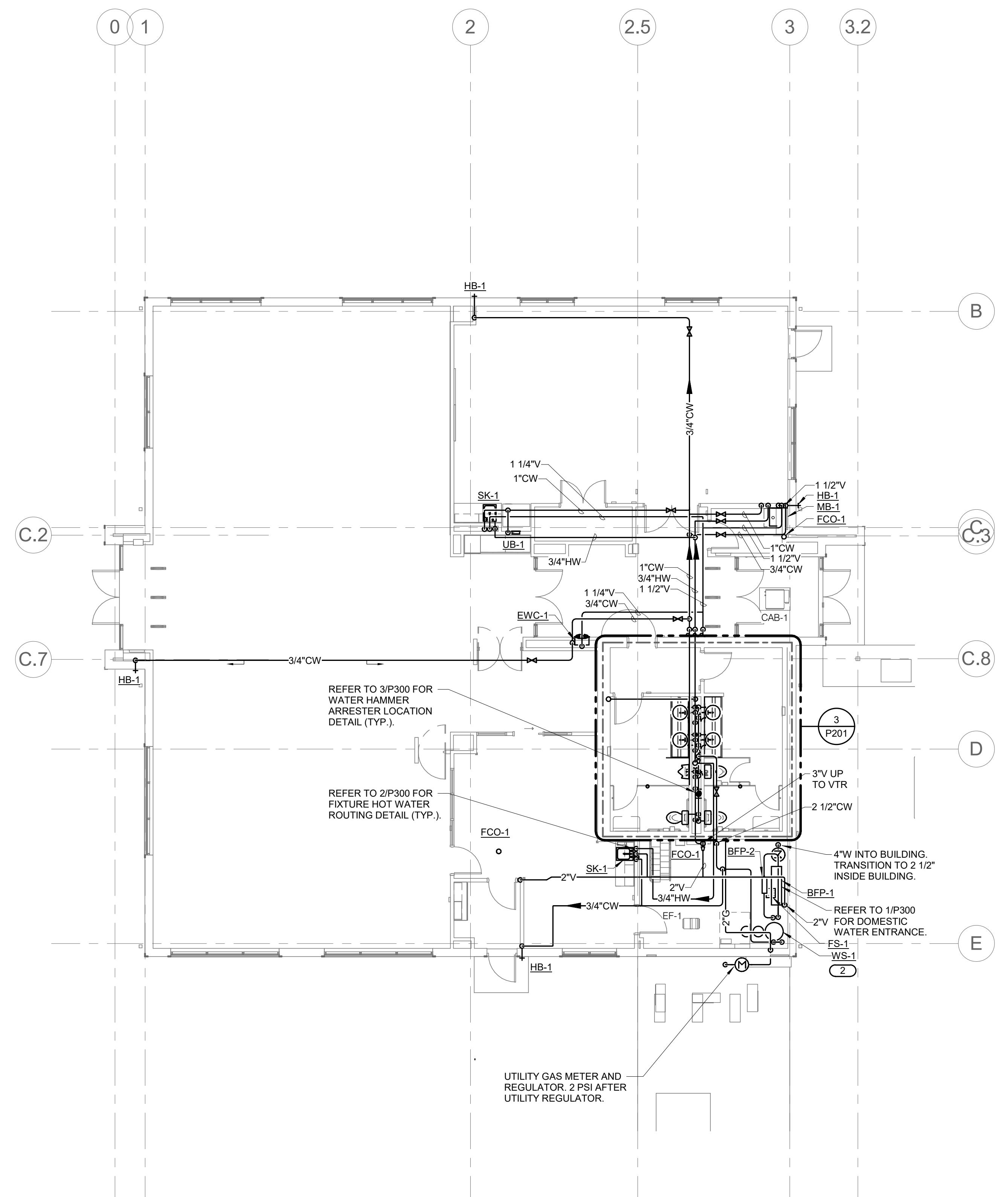
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**ENLARGED PLAN - 119 MEN/120 WOMEN**



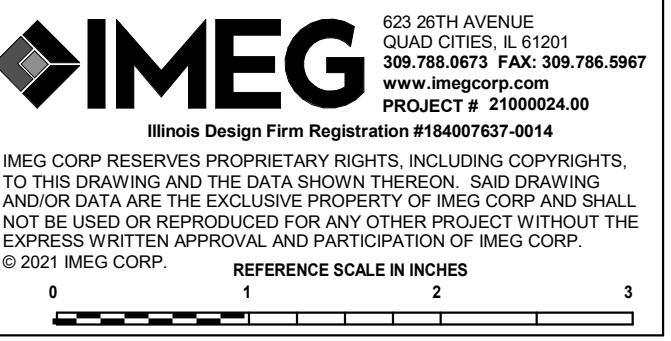
**MECHANICAL MEZZANINE - PLUMBING**



**LEVEL 1 - PLUMBING**

**P201**

602 26TH AVENUE  
QUAD CITIES, ILLINOIS 61201  
309.786.0673 FAX: 309.786.5967  
PROJECT # 2100024.00



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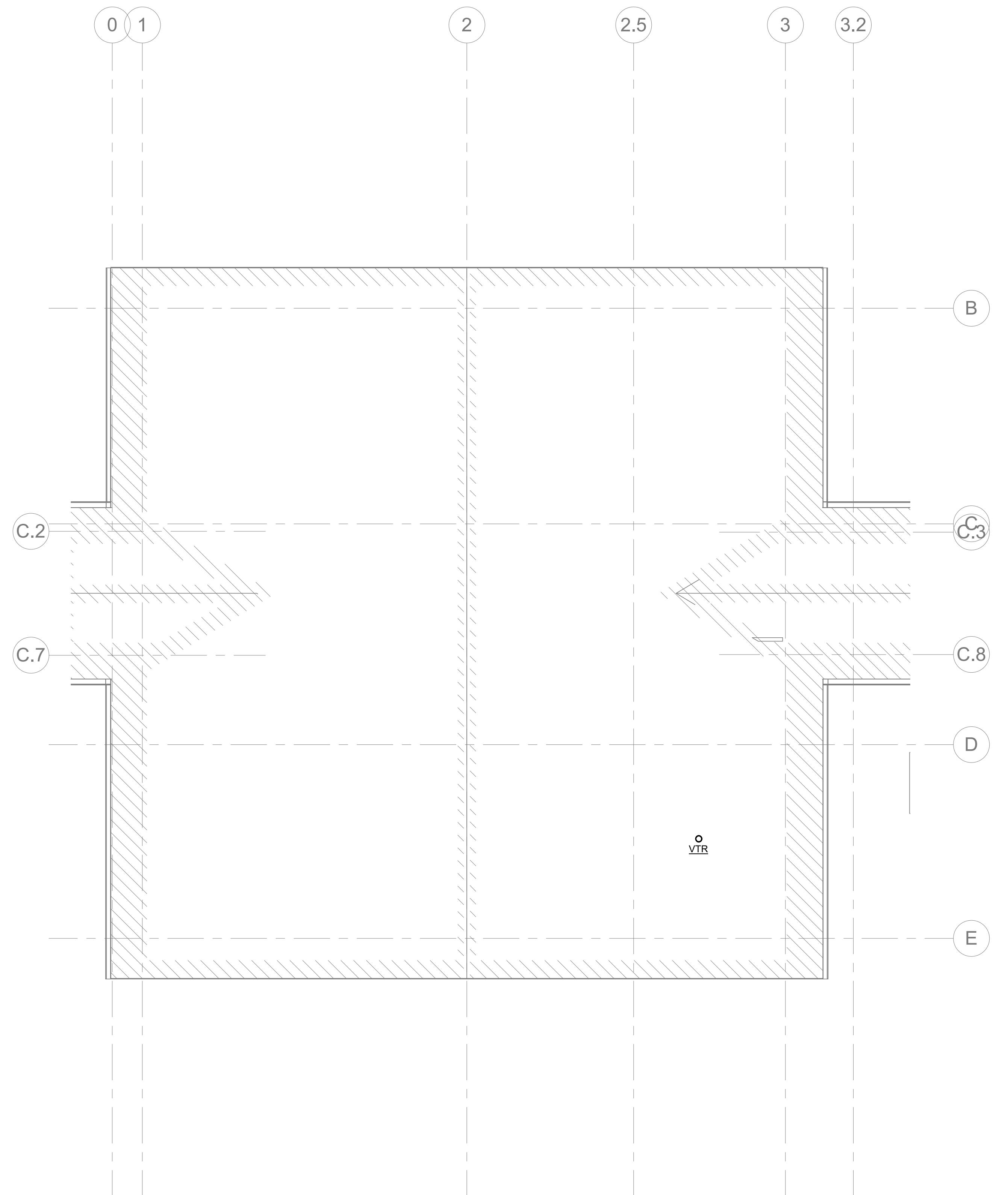
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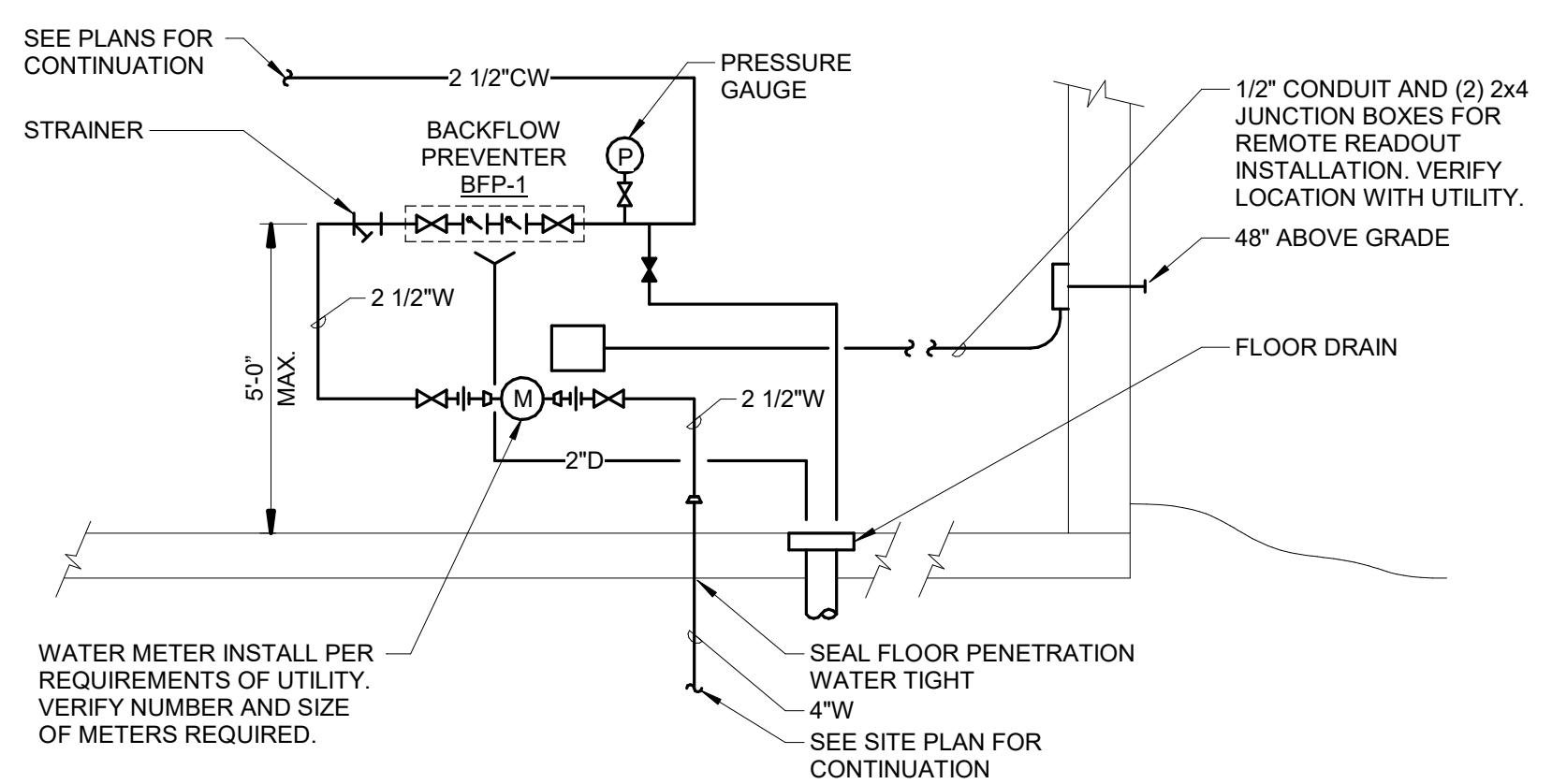
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**ROOF - PLUMBING**

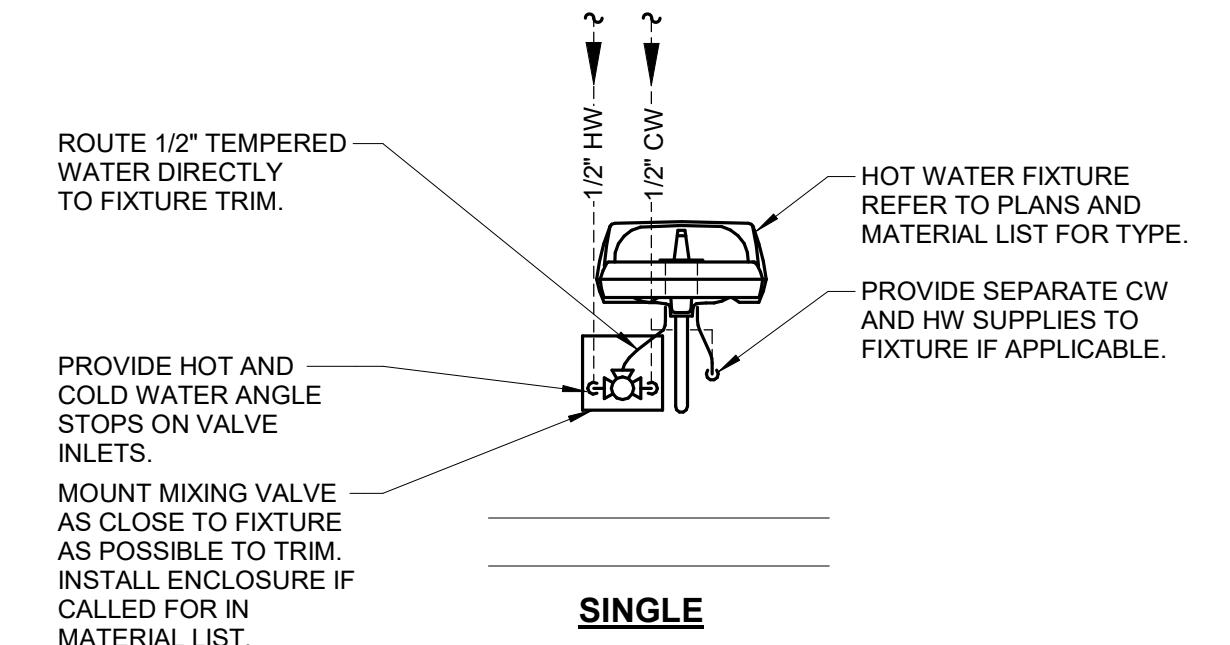


**1** ROOF - PLUMBING  
1/8" = 1'-0"

**P202**



**1 DOMESTIC WATER ENTRANCE**  
NO SCALE



**2 FIXTURE HOT WATER ROUTING DETAIL**  
NO SCALE



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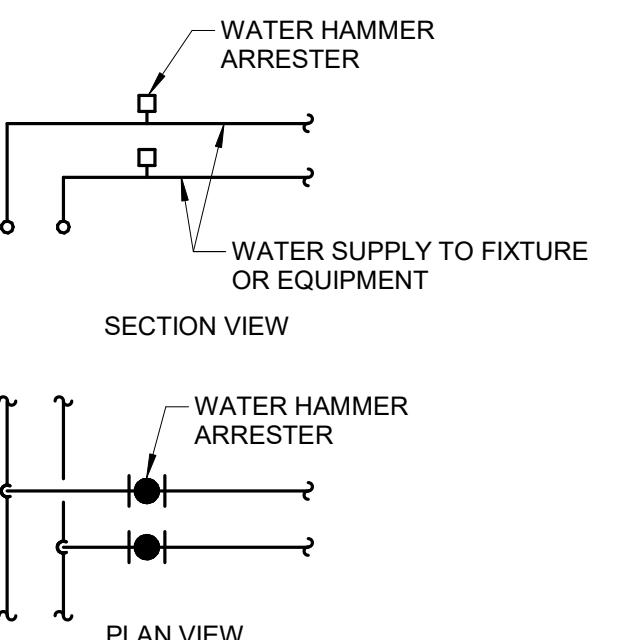
DRAWN BY KASGAJ  
CHECKED BY PETCOU

## PLUMBING DETAILS

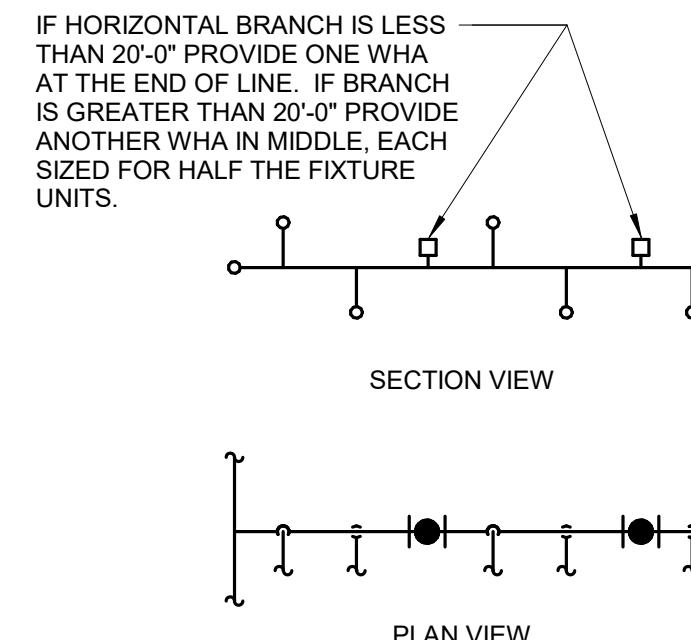
**P300**

PROVIDE WATER HAMMER ARRESTER (WHA-#) AT PLUMBING FIXTURES AND QUICK CLOSING VALVES AS INDICATED ON DRAWINGS AND AS RECOMMENDED BY STANDARD PDI-WH201. REFER TO PLUMBING MATERIAL LIST FOR WATER HAMMER ARRESTOR DESCRIPTION.

### SINGLE / DOUBLE FIXTURE



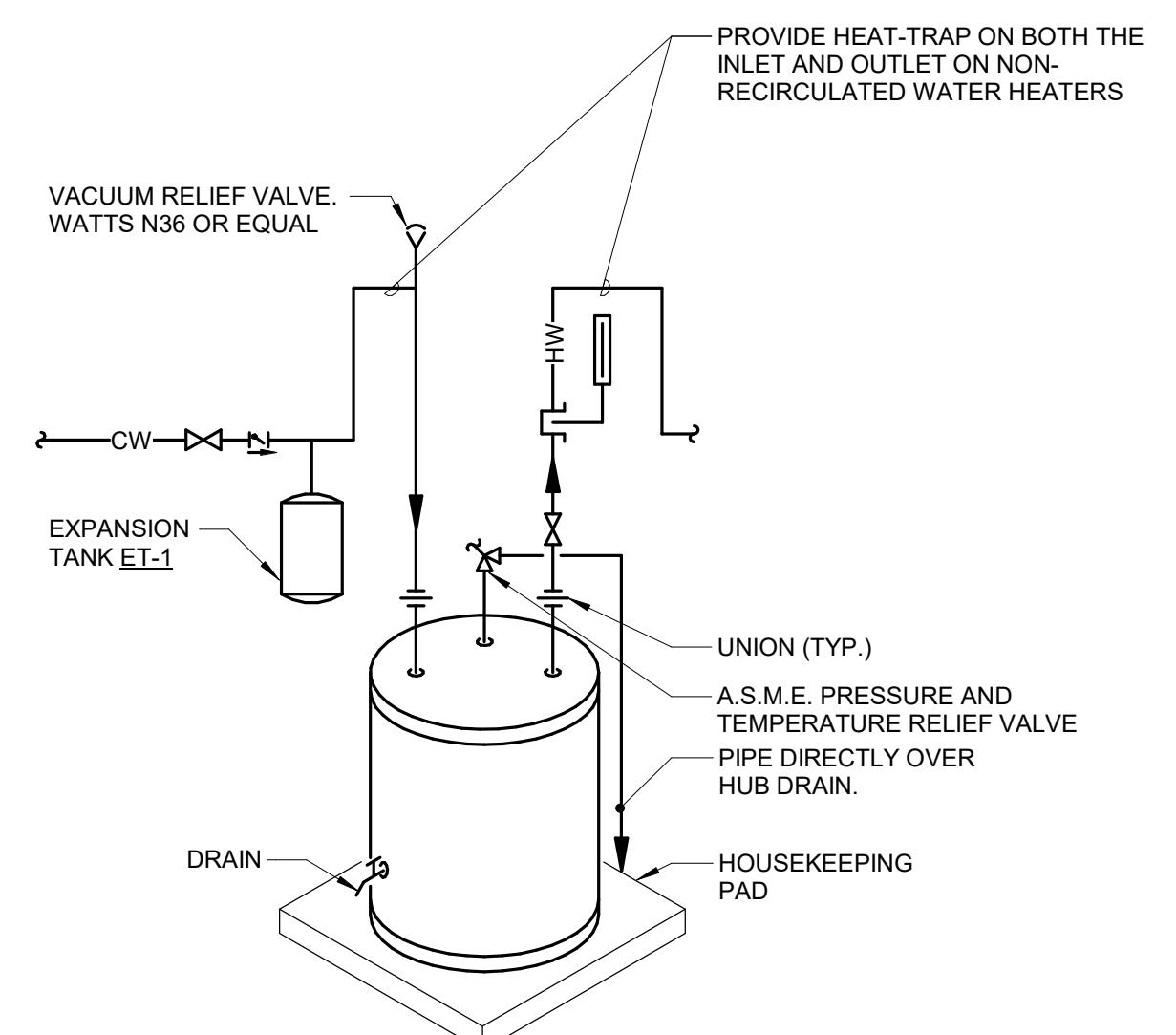
### MULTIPLE FIXTURES



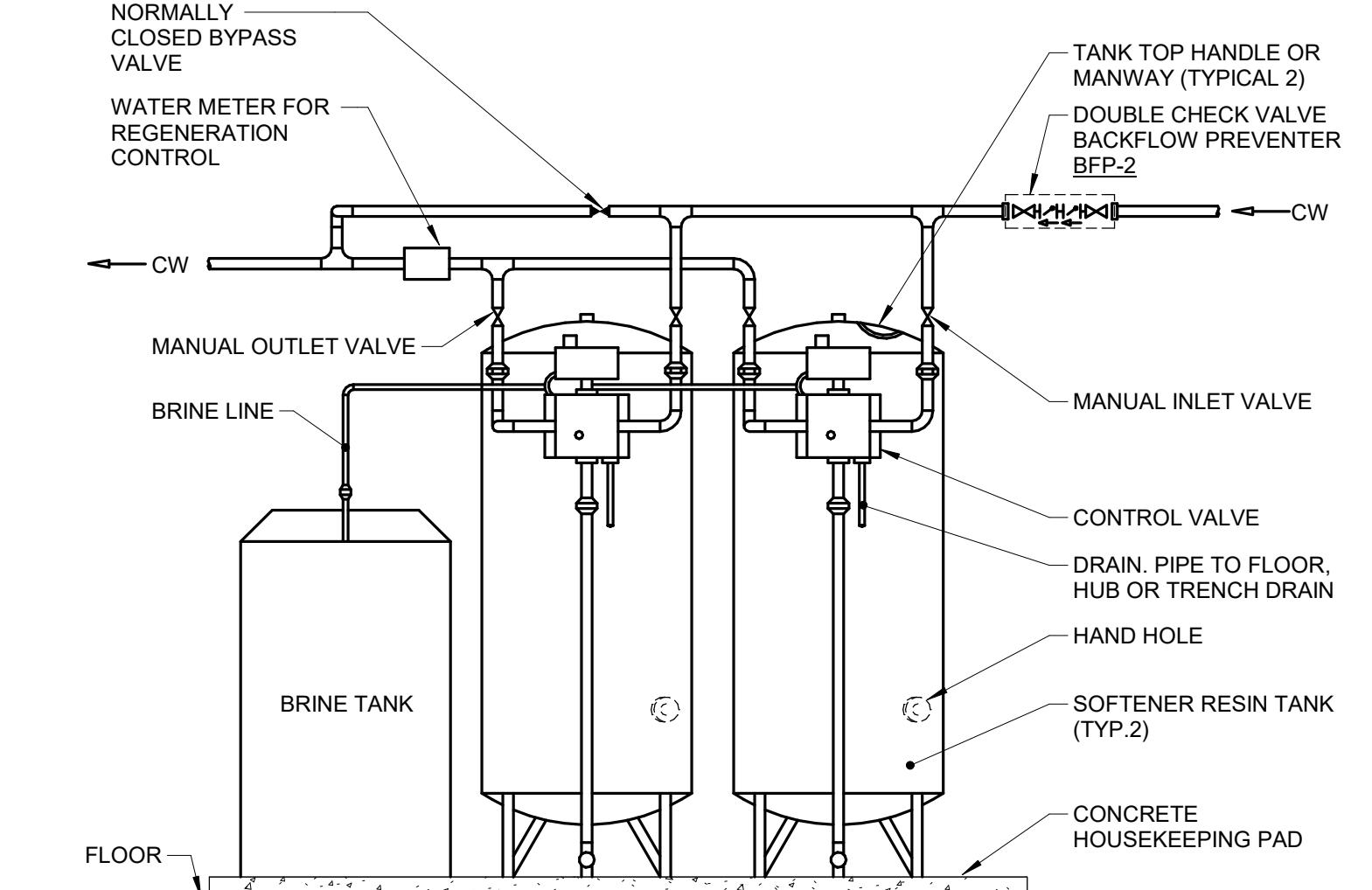
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	155-330

INSTALL WHA'S PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN A DRY LOCATION, OUT OF DIRECTION OF POSSIBLE SUN. SIZE THE WHA AS SHOWN PER THE TABLES ABOVE. PROVIDE ACCESSIBILITY TO WHA WITH ACCESS PANEL OR INSTALL ABOVE ACCESSIBLE CEILING.

**3 WATER HAMMER ARRESTER LOCATION DETAIL**  
NO SCALE



**4 WATER HEATER - ELECTRIC TANK**  
NO SCALE



**5 WATER SOFTENER**  
NO SCALE



## CRESTON-DEMENT PUBLIC LIBRARY

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CRESTON, IL 60113

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PROJECT NUMBER 182836

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ISSUED FOR:

ISSUED FOR BID 11/03/23

REVISION FOR: DATE  
NO. DESCRIPTION

## PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
BFP-1	BACK FLOW PREVENTER - REDUCED PRESSURE ZONE, STAINLESS STEEL CONSTRUCTION, SIZE SAME AS PIPE 1&#034;, 1&#034; NON-CORROSION INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES. GATE STYLE SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, RATED FOR 175 PSI AT 33°F TO 140°F, 15 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, FACTORY TESTED, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C510-92, ASSE 101A, IAPMO AND SBCCI LISTED.	WATTS (957), APOLLO (RPLF4A), WILKINS (375AST)
	MOUNT WITHIN 60° OF FINISHED FLOOR, ROUTE DRAIN PIPE FROM AIR GAP FITTING TO FLOOR DRAIN, PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER, FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.	
BFP-2	BACK FLOW PREVENTER - DOUBLE CHECK, LEAD FREE BRONZE CONSTRUCTION, SAME SIZE AS PIPE 1&#034;, 1&#034; NON-CORROSION INTERNAL PARTS, STAINLESS STEEL SPRINGS, SPRING-LOADED CHECK VALVES, GATE STYLE SHUT-OFF VALVES, AIR GAP DRAIN FITTING OF UNIT, TEST PORTS WITH SHUT-OFF VALVES, FACTORY TESTED, RATED FOR 175 PSI AT 33°F TO 140°F, 8 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C510-92, ASSE 101, IAPMO AND SBCCI LISTED.	WATTS (LF007), WILKINS (350XL), FEBCO (LF850), APOLLO (4ALF-100)
	MOUNT WITHIN 60° OF FINISHED FLOOR, PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER, FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.	
ET-1	EXPANSION TANK - WELDED BLACK STEEL CONSTRUCTION, GUARANTEED AIRTIGHT AND LEAKPROOF, STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSION WATER RESERVOIR, DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS, ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING. TANK SHALL COMPLY WITH FEDERAL ACT S.3874.	AMTROL (THERM-X-TROL), B&G (PT), ELBI (DT), FLEXTRON (FLEXTROL), TACO (PAX SERIES), WATTS (DETA), WESSELS (TX)
	MINIMUM TANK VOLUME TO BE 2 GALLONS MINIMUM ACCEPTING VOLUME TO BE 0.9 GALLONS	
	TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 150 PSIG. FACTORY PRE-CHARGED FOR SHIPPING. FIELD CHARGE TANK TO 50 PSIG.	
EWC-1	BOTTLE FILLING STATION - RECESSED MOUNTED, SENSOR OPERATED WITH AUTOMATIC SHUTOFF, 1.1 GPM FILL RATE WITH LAMINAR FLOW OUTLET, REAR DRAIN OUTLET, STAINLESS STEEL CONSTRUCTION AND FINISH, REPLACEABLE LEAD-CHLORINE-TASTE-BODOR WATER FILTER, BOTTLE COUNTER, FILTER REPLACEMENT INDICATOR, CHILLED WATER SUPPLIED TO UNIT, HERMETIC COMPRESSOR TO OPERATE ON 115V 13AA REFRIGERANT, CONCEALED ELECTRICAL CONNECTIONS, INTEGRAL THERMOSTAT, ADA COMPLIANT, MEETS ADA AND THE LATEST ANSI A117.1 AND ADA STANDARDS. UNIT SHALL COMPLY WITH FEDERAL ACT S.3874.	ELECTRIC WATER COOLER -ELKAY (LZWMSM8K), HALSEY TAYLOR (HTHB-8), HAWS (200S)
	UNIT SHALL PROVIDE 8.0 GPH OF WATER FROM 80°F TO 50°F AT 90°F AMBIENT. TANK SHALL BE TESTED TO 125 PSIG.	
	ELECTRICAL REQUIREMENTS - 1/2 HP MOTOR, 120V-1 PHASE, HARD WIRED, GFCI BREAKER, DISCONNECT BY E.C.	
	WATER OUTLET SHALL BE AT 38° (MAXIMUM) ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS.	
FCO-1	FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS:  UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP TILE OR TERRAZZO - ROUND RECESSED TOP CARPET - ROUND TOP WITH CARPET FLANGE.	ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200)

## PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL-BRONZE ADJUSTABLE TOP, 5" ROUND, 2" BOTTOM OUTLET, FLASHING COLLAR, SURFACE MEMBRANE CLAMP, DEEP SEAL TRAP. TRAP SEAL - 2", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN - ZURN (Z-415), SMITH (2005), WADE (1100), JOSAM (30000), WATTS (FD-100), MIFAB (F1100), SUN (FD100)
FS-1	FLOOR SINK - CAST IRON BODY, NICKEL-BRONZE RIM AND GRATE, 12" SQUARE, 4" BOTTOM OUTLET, 6" DEEP RECEPTOR WITH STAINLESS STEEL MESH SEDIMENT BUCKET, ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP, DEEP SEAL TRAP.	ZURN (Z1901), SMITH (3151), WADE (9140), JOSAM (49340A), WATTS (FS-740), SIOUX CHIEF (861-2XFNWC), SUN (FS2000), MIFAB (FS1730)
GR-1	GAS PRESSURE REGULATOR - VENTLESS, CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2.5PSI INLET PRESSURE, 13" OUTLET PRESSURE, CFH CAPACITY AS SHOWN ON DRAWING, MINIMUM CONTROLLABLE FLOW OF 25 CFH.	FISHER, ITRON, SENSUS, MAXITROL
HB-1	HOSE BIBB - FREEZELESS WATER HYDRANT, BLASS VALVE BODY AND SEAT, STANDARD FRESH WATER, VARIOUS MATERIALS, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD, WALL CLAMP, CONCEALED IN FLUSH MOUNTED LOCKABLE WALL BOX, KEY OPERATED, ASSE 1019 OR 1052 LISTED AND APPROVED.	PRIER (C-634BX), WOODFORD (B67), ZURN (Z-300), WATTS (HY-725), MIFAB (MHY-20), SMITH (5509QT), WADE (8700)
L-1	VERIFY NUMBER OF KEY OPERATORS TO BE PROVIDED WITH OWNER, BOX COVER AND HYDRANT SHALL USE A COMMON KEY. MOUNT AT 18" ABOVE GRADE UNLESS NOTED OTHERWISE IN DRAWINGS.	LAVATORY - ACCESSIBLE, WALL-MOUNTED TWO STATION INTEGRATED LATRINE UNIT FORMED FROM MOLDED SOLID SURFACE MATERIAL, 55" WIDE, WITH WALL MOUNTING FRAME, BUILT-IN FAUCET DISPENSER, WALL MOUNT WITH STAINLESS STEEL MOUNTING FRAME, PREPARED FOR SINGLE HOT, COLD AND DRAIN CONNECTION, INFRARED SENSOR ACTIVATED FAUCET WITH THERMOSTATIC MIXING VALVE, STAINLESS STEEL ADJUSTABLE CARRIER ENCLOSURE, COMBINATION CUP AND TOE TOP ASSEMBLY, TOE RELEASER, CARRIER, 3/8" NON-CORROSIVE, FLEXIBLE STAINLESS STEEL SUPPLY LINES, GRID STRAINER, TAILPIECE, 1-1/2" 17 GAUGE CAST BRASS P-TRAP, UNDER SINK ENCLOSURE. ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
	ELECTRICAL REQUIREMENTS - 120V FOR SOAP/FAUCET TRANSFORMER PLUG-IN ANCHOR TO WALL PER MANUFACTURER'S REQUIREMENTS. PROVIDE 29" CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. TOP OF BACK PLATE SHALL BE AT 34" (MAXIMUM) ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. MAXIMUM FLOW TO BE 0.6 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 1992 AND AMSE/ANSI STANDARD A112.18.1M. ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE OF COLORS.	LAVATORY - BRADLEY (GLX-2), SLOAN (ELC)
MB-1	MOP BASIN - PRECAST TERRAZZO, 24"X24"X12", STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OUTLET, CONTINUOUS STAINLESS STEEL CAP ON ALL EDGES.	MOP BASIN - FIAT (TSB), ACORN (TSH), CREATIVE INDUSTRIES (MC), WILLIAMS (SB)
	TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH INTEGRAL VACUUM BREAKER, WALL BRACE, PAI HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874.	TRIM - DELTA (28C2383), AMERICAN STANDARD (8344-012), CHICAGO FAUCETS (897-CP), MOEN (8124), SPEAKMAN (SC-5812), SYMONS (S-2490), ZURN (Z841M-XL)
	ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, DEEP SEAL TRAP TWO 24" WIDE STAINLESS STEEL WALL GUARD	VACUUM BREAKER - WATTS (8A), OR APPROVED EQUAL

## PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
SK-1	SINK - ACCESSIBLE, SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 304 STAINLESS STEEL, 17" SIDE-TO-SIDE x 22" FRONT-TO-BACK, OVERALL SIZE: 13 1/2" x 18 1/2" x 8 3/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER.	SINK - ELKAY (LRADTLKAP18), JUST (SL-ADA-JADA-35-FS), FRANKE (ALBS)
	SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, INTEGRAL CAST BODY, CHROME-PLATED FINISH, GOOSENECK SWING SPOUT, NOMINAL 8" REACH, AERATOR, LEVER BLADE HANDLES AT 8" CENTERS 4" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE.	SINK TRIM - CHICAGO FAUCET (895), SPEAKMAN (SC-3084), ZURN (Z812C-XL)
	MAXIMUM FLOW TO BE 2.2 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND AMSE/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.	WATTS (LFUSG-B), LAWLER (TMM-1070T), ACORN CONTROLS (S170-BP-LF), POWER (LFE480), SLOAN (MX-135-A), SYMONS (7-210), WILKINS (Z-W3870-XLT)
	INSULATION KIT - MCQUIRE (PROWRAP), JUST (J-ADA), PLUMBEREX (PRO-EXTREME), TRUEBRO (LAV-GUARD2)	
UB-1	UTILITY BOX - UNPAINTED GALVANIZED STEEL OR WHITE PAINTED STEEL ENCLOSURE, MATCHING FACEPLATE, ANGLE VALVE WITH 1/4" COMPRESSION OUTLET, INTREGAL WATER HAMMER ARRESTOR.	GUY GRAY (BIM875AB), OATEY (39140 WITH 38686 FACEPLATE)
UR-1	URINAL - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHDOWN ACTION, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET.	URINAL - AMERICAN STANDARD (6590-001), KOHLER (K-4991-ET), SLOAN (ROYAL-18), AMERICAN STANDARD (6045-101), KOHLER (K13618-CP), DELANY (451), TOTO (TMU11NC-12), AMTC (MF-700-U10)
	FLUSH VALVE - EXPOSED, MANUAL OPERATION, 1.0 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, CHLORAMINE RESISTANT CAPS, 3-YEAR WARRANTY.	FLUSH VALVE - ZURN (Z6003AV), SLOAN (ROYAL-18), AMERICAN STANDARD (6045-101), KOHLER (K13618-CP), DELANY (451), TOTO (TMU11NC-12), AMTC (MF-700-U10)
	CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN	
	ACCESORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES.	
	Mount with carrier bolted securely to floor. Top of bowl rim shall be at 17" (maximum) above floor in compliance with latest ADA standards. Verify equipment requirements and rough-in locations.	
WC-1	WATER CLOSET - ACCESSIBLE FLOOR MOUNTED, TANK TYPE, WHITE VITREOUS CHINA, CLOSE COUPLED, SIPHON JET, ELONGATED BOWL, TANK TYPE, 12" ROUGH-IN, FLOAT VALVE WITH VACUUM BREAKER, CHROME-PLATED TRIP LEVER, INSULATED TANK LINER, 1.6 GALLONS PER FLUSH (MAXIMUM) IN COMPLIANCE WITH ENERGY POLICY ACT OF 1992.	WATER CLOSET - ZURN (Z5550), KOHLER (K-3978), CRANE (3814), KOHLER (K-3979), ELJER (091-2175), GERBER (21-718), TOTO (CST744SL)
	SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.	SEAT - BEEMIS (3155SSCT), CHURCH (315SC), BENEKE (53PC), OLSONITE (95), SAME AS WATER CLOSET MANUFACTURER
	ACCESORIES - QUARTER-TURN 3/8" CHROME-PLATED HEAVY BRASS ANGLE SUPPLY WITH LOOSE-KEY STOP, CHROME-PLATED SOFT COPPER SUPPLY LINE.	
	TOP OF SEAT SHALL BE AT 17"-19" ABOVE FINISHED FLOOR. FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	
WC-2	WATER CLOSET - FLOOR MOUNTED, TANK TYPE, WHITE VITREOUS CHINA, CLOSE COUPLED, SIPHON JET, ELONGATED BOWL, TANK TYPE, 12" ROUGH-IN, FLOAT VALVE WITH VACUUM BREAKER, CHROME-PLATED TRIP LEVER, INSULATED TANK LINER, 1.6 GALLONS PER FLUSH (MAXIMUM) IN COMPLIANCE WITH ENERGY POLICY ACT OF 1992.	WATER CLOSET - ZURN (Z5530), KOHLER (K-3978), ELJER (091-2125), GERBER (21-712), TOTO (CST716)
	SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.	SEAT - BEEMIS (3155SSCT), CHURCH (315SC), BENEKE (53PC), OLSONITE (95), SAME AS WATER CLOSET MANUFACTURER
	ACCESORIES - QUARTER-TURN 3/8" CHROME-PLATED HEAVY BRASS ANGLE SUPPLY WITH LOOSE-KEY STOP, CHROME-PLATED SOFT COPPER SUPPLY LINE.	
	TOP OF SEAT SHALL BE AT 16"-17" ABOVE FINISHED FLOOR. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	
WH-1	WATER HEATER - ELECTRICAL, VERTICAL, METAL CABINET, BAKED ENAMEL FINISH, GLASS-LINED WELDED STEEL TANK, 150 PSI WORKING PRESSURE, FIBERGLASS OR FOAM INSULATION, BRAZED BRASS WATER CONNECTIONS AND DRAIN VALVE, ASME APPROVED T&P RELIEF VALVE, MAGNESIUM ANODE ROD, LOW WATER DENSITY IMMERSION ELEMENTS, AUTOMATIC THERMOSTAT WITH EXTERNAL ADJUSTMENT, HIGH TEMPERATURE CUTOFF SWITCH, ENCLOSED CONTROLS AND ELECTRICAL JUNCTION BOX, 1-YEAR WARRANTY, UL LISTED, COMPLIANT TO NAECA, ASHRAE 90.1 AND ASHRAE 90A.	A.O. SMITH (ECJ-30), BOCK (LCE SERIES), AMERICAN (E62-30), BRADFORD WHITE (M-2-30), RHEEM (82VP30), RUUD (PEP), STATE (ES6-30), HTP (EVERLAST)
	30 GALLON CAPACITY, 24500 WATT, NON-SIMULTANEOUS ELEMENT, 20 GPH RECOVERY	
	ELECTRICAL REQUIREMENTS - 240V, HARD-WIRED CONNECTION	
	SET WATER TEMPERATURE AT 140°F.	
WHA-1	WATER HAMMER ARRESTOR - PISTON TYPE, PRE-CHARGED WITH 60 PSIG AIR, LEAD FREE, COPPER BODY, BRASS OR HIGH HEAT POLY-PROPYLENE PISTON WITH DUAL EPDM O-RINGS SEALS LUBRICATED WITH FDA APPROVED SILICONE LUBRICANT. PDI CERTIFIED, A.S.E. 101 APPROVED FOR SEALED WALL INSTALLATION.	WATTS (LF15M2-DR), SIOUX CHIEF (650 SERIES), MIFAB (MWH), PPP (SC SERIES), ZURN WILKINS (1250XL), JR SMITH (G201-5250), WADE (WP5-100), JOSAM (75000-S)
	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	
WS-1	WATER SOFTENER - PRE-PIPED AND SKID MOUNTED, DUPLEX SOFTENER TANKS, AUTOMATIC REGENERATION TYPE BASED ON HARDNESS SENSOR WITH VOLUMETRIC TOTAL BACKUP, MULTIPLE TANK PROGRESSIVE CONTROL SYSTEM, POWER SUPPLY WITH CORD AND PLUG.	WATER CONTROL (MFT-90-MR) OR APPROVED EQUAL
	CONTINUOUS FLOW RATE OF 30 GPM AT 15 PSI PRESSURE DROP MAXIMUM FLOW RATE OF 42 GPM AT 25 PSI PRESSURE DROP MINIMUM FLOW RATE OF 1	

VIEW KEY	
	NAME - LEVEL NAME 10'-0" - HEIGHT ABOVE PROJECT 0'-0"
	INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL
	VIEW NAME
	INDICATES DIRECTION OF TRUE NORTH
	PLAN OR DETAIL NUMBER
	PLAN OR DETAIL NAME
	INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
	SIM
	DETAIL REFERRED TO BY SECTION CUT
	SHEET DETAIL IS LOCATED ON
	T101
	1/8" = 1'-0"
	PLAN OR DETAIL SCALE
	LINE TYPE AND TAG KEY:
	NEW WORK BY THIS CONTRACTOR (WIDE LINE)
	NEW
	EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
	NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)
	EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
	EXISTING
	EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
	EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)
	HALFTONING DOES NOT MODIFY SCOPE.
	TAG-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING
	TAG-1 UNDERLINED TEXT INDICATES ADDITIONAL INFORMATION CAN BE FOUND ELSEWHERE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST
	◆ INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS	
THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.	
RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS.	
1 HOUR FIRE PARTITION	
2 HOUR FIRE BARRIER	

APPLICABLE CODES	
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.	
BUILDING CODE:	IBC 2006 EDITION
FIRE CODE:	IFC 2006 EDITION
PLUMBING CODE:	ILLINOIS PLUMBING CODE CURRENT EDITION
MECHANICAL CODE:	IMC 2006 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2005 EDITION
LIFE SAFETY CODE:	NFPA 101 CURRENT EDITION
ENERGY CONSERVATION CODE:	IECC 2006 (ASHRAE 90.1 2004)
LOCAL BUILDING CODE:	CURRENT EDITION

CONTACT PERSONS:	
DESCRIPTION:	PERSON:
PROJECT MANAGER	MATT SNYDER
MECHANICAL	PETE COURTNEY
ELECTRICAL	MATT SNYDER
TECHNOLOGY	ALAN SWANSON

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

VENTILATION SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
<b>SYMBOL:</b>	<b>DESCRIPTION:</b>
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	RISE IN DIRECTION OF AIR FLOW
	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
	AIR TERMINAL PROPERTIES SYMBOL SD-1 6/115 NECK SIZE/CFM
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
	DIFFERENTIAL PRESSURE SENSOR
	CARBON DIOXIDE SENSOR
	HUMIDISTAT SENSOR
	HUMIDISTAT/SENSOR (DUCT MOUNTED)
	OCCUPANCY SENSOR
	PRESSURE SENSOR/MONITOR
	PRESSURE SENSOR (DUCT MOUNTED)
	TERMOSTAT/SENSOR
	TEMPERATURE SENSOR (DUCT MOUNTED)
	TERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER

VENTILATION ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
MA	MIXED AIR
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SD	SMOKE DAMPER
TD	TRANSFER DUCT
TYP	TYPICAL
UC	DOOR UNDERCUT BY OTHERS (1" TYPICAL)

## MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INDICATE THE EXACT LOCATION OF CONSTRUCTION REQUIREMENTS REQUIRED FOR COMPLETE INSTALLATION. THE WORK OF OTHERS WILL PERMIT AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
11. CALK ALL DUCT AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, FLOOR, CEILING, FLUOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPECIFICATIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR SLEEVES, AND EQUIPMENT.
16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

## VENTILATION GENERAL NOTES:

1. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
2. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.

## TAB POST-CONSTRUCTION NOTES:

1. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
2. IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES FOR GROSS READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
3. A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
4. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
5. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

## MECHANICAL SHEET INDEX

M000	MECHANICAL COVERSHEET
M201	MAIN LEVEL - MECHANICAL
M202	MEZZANINE LEVEL - MECHANICAL
M203	ROOF - MECHANICAL
M300	MECHANICAL DETAILS
M400	CONTROL DIAGRAMS
M500	MECHANICAL SCHEDULES

GRAND TOTAL: 7

**KEYNOTES:** #  
1. DUCT SHALL BE ROUTED WITHIN SPACE AVAILABLE BETWEEN WOOD TRUSSES. COORDINATE WITH TRUSS CONTRACTOR.

**GENERAL SHEET NOTES:**  
1. THERMOSTATS SHALL BE PROGRAMMABLE AND WIFI ENABLED TO OPERATE FROM REMOTE APP.



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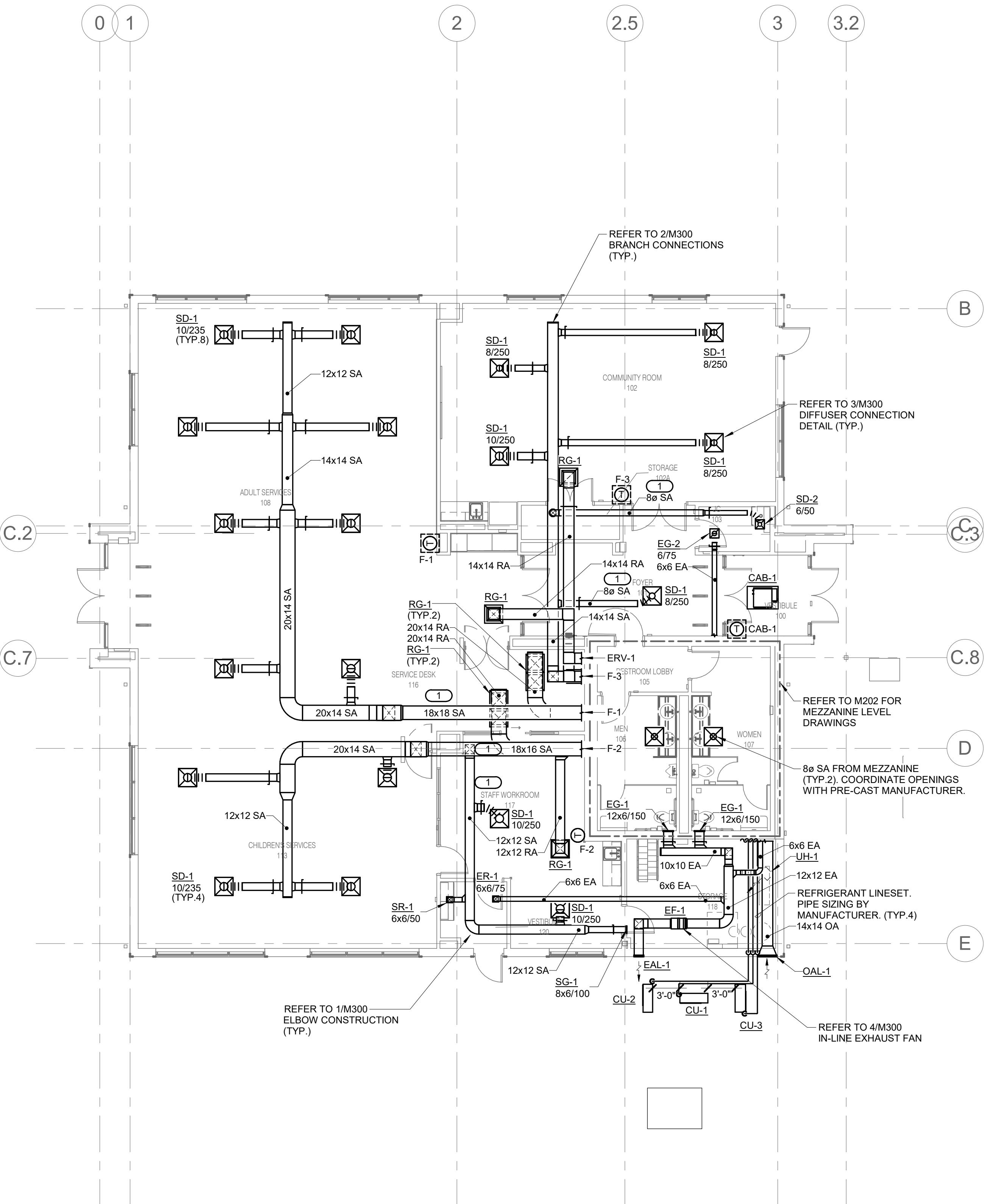
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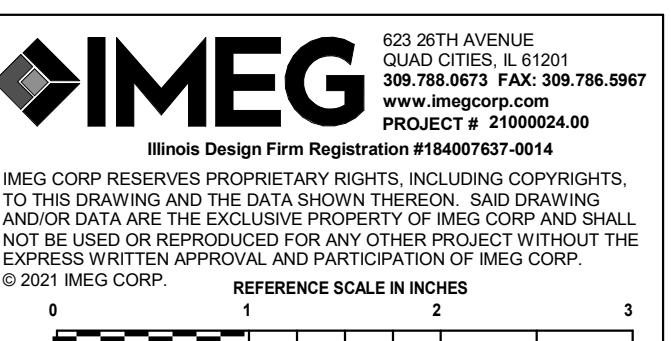
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CHECKED BY **PETCOU**

## MAIN LEVEL - MECHANICAL



**LEVEL 1 - MECHANICAL**  
1/8" = 1'-0"

**M201**



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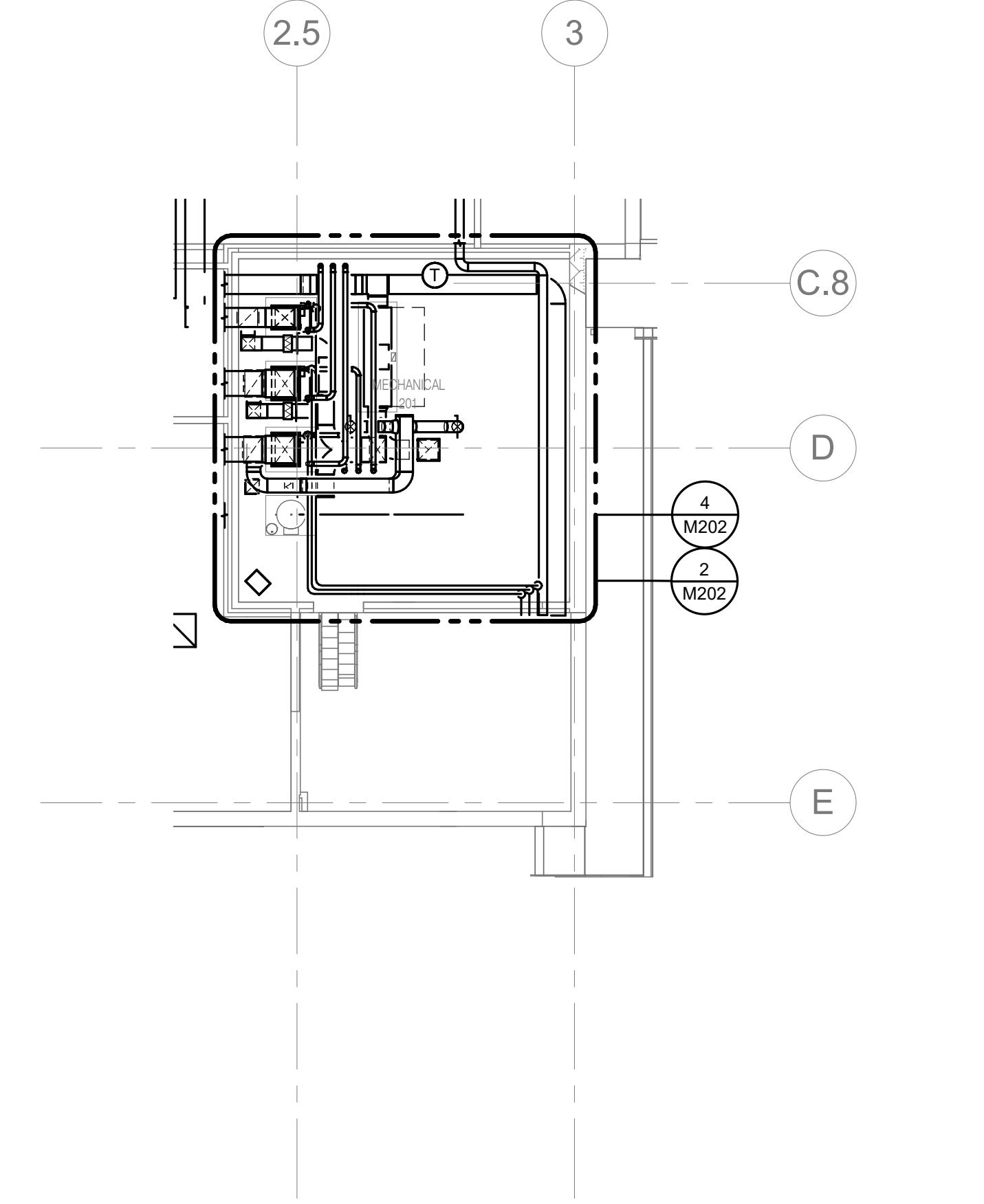
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## MEZZANINE LEVEL - MECHANICAL



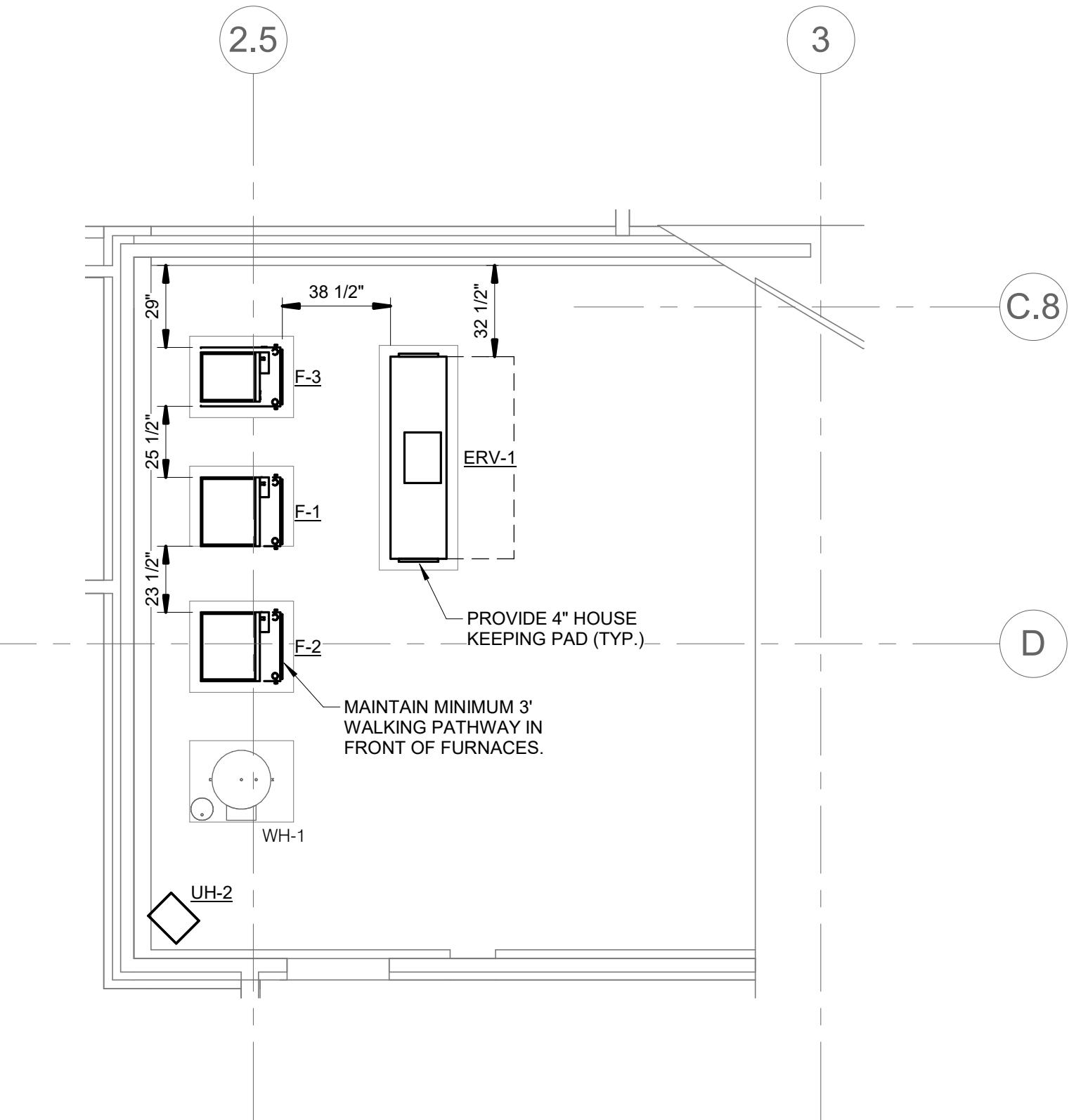
## ENLARGED PLAN - 201 MECHANICAL



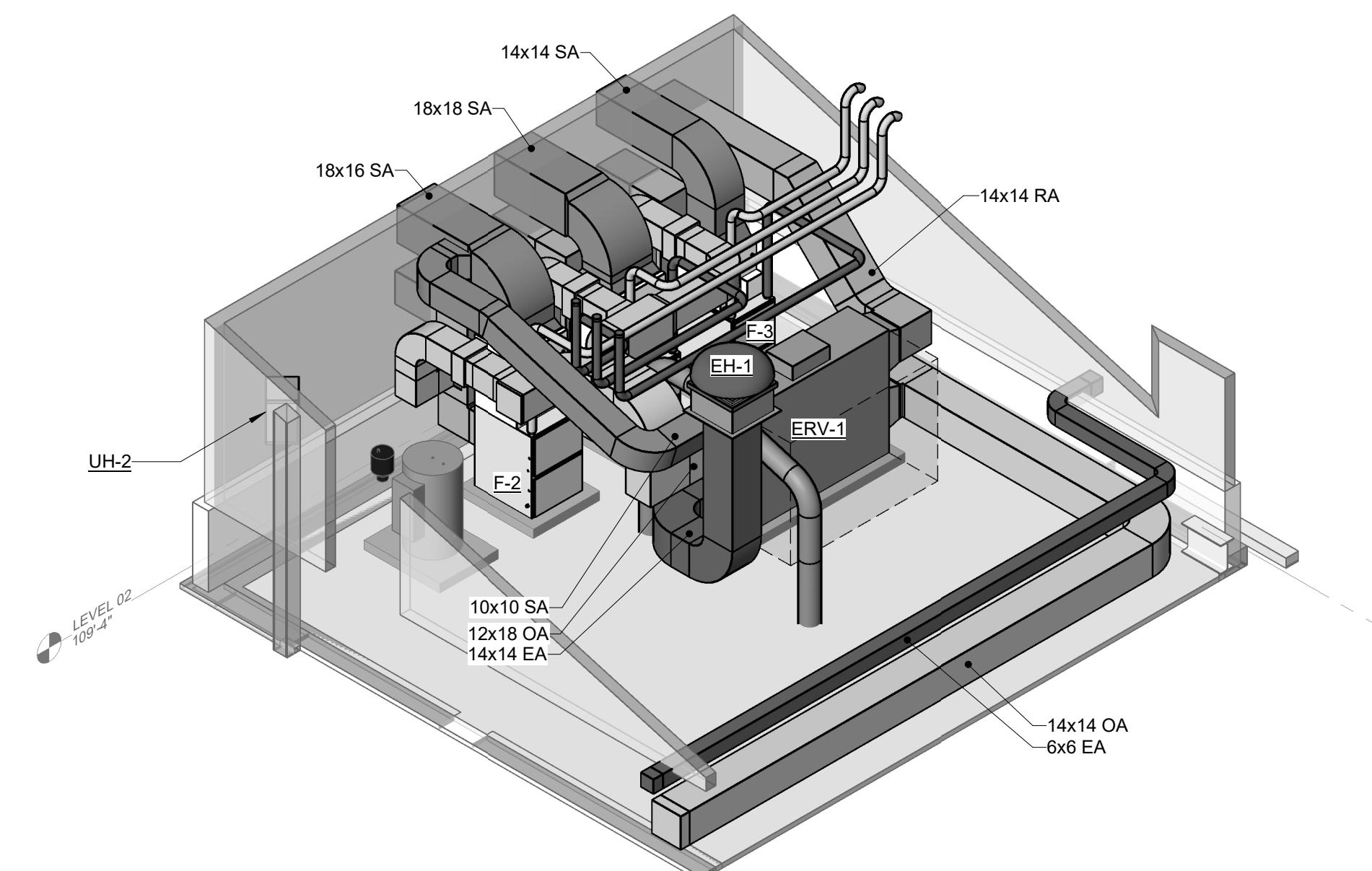
2 1/4" = 1'-0"

NOTES:

1. THE SPACE IS DESIGNED FOR MAXIMUM CLEARANCE AND OPTIMUM STORAGE. ANY PLANNED DEVIATIONS FROM DESIGN MUST BE SENT THROUGH AS AN RFI PRIOR TO ANY WORK BEING DONE.
2. ADD BALANCING DAMPERS ON THE RETURN DUCTS TO EACH FURNACE.
3. INSTALL REFRIGERANT PIPING, VALVES AND ACCESSORIES PER MANUFACTURER INSTRUCTIONS.



## 3D - 201 MECHANICAL

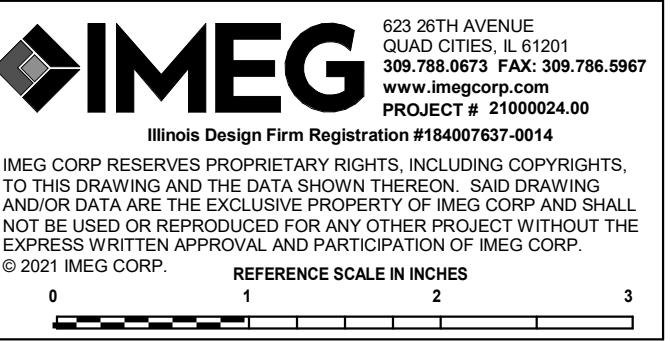


## EQUIPMENT PLAN - 201 MECHANICAL



4 1/4" = 1'-0"

# M202



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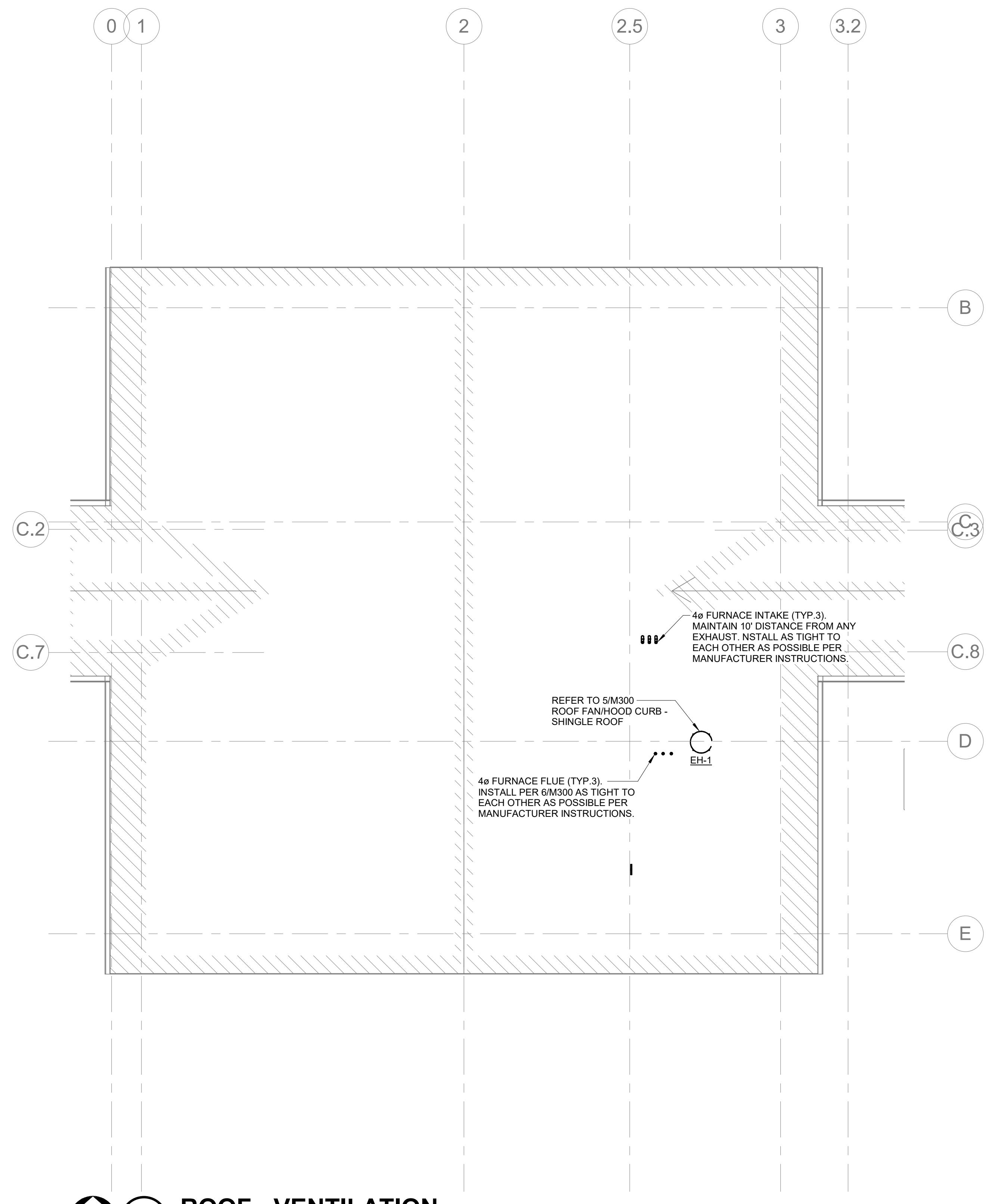
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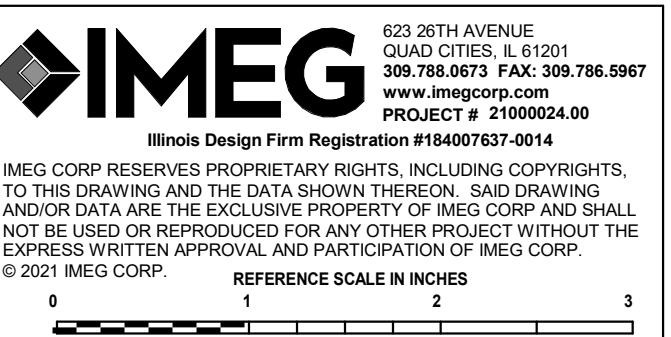
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ROOF -  
MECHANICAL



M203



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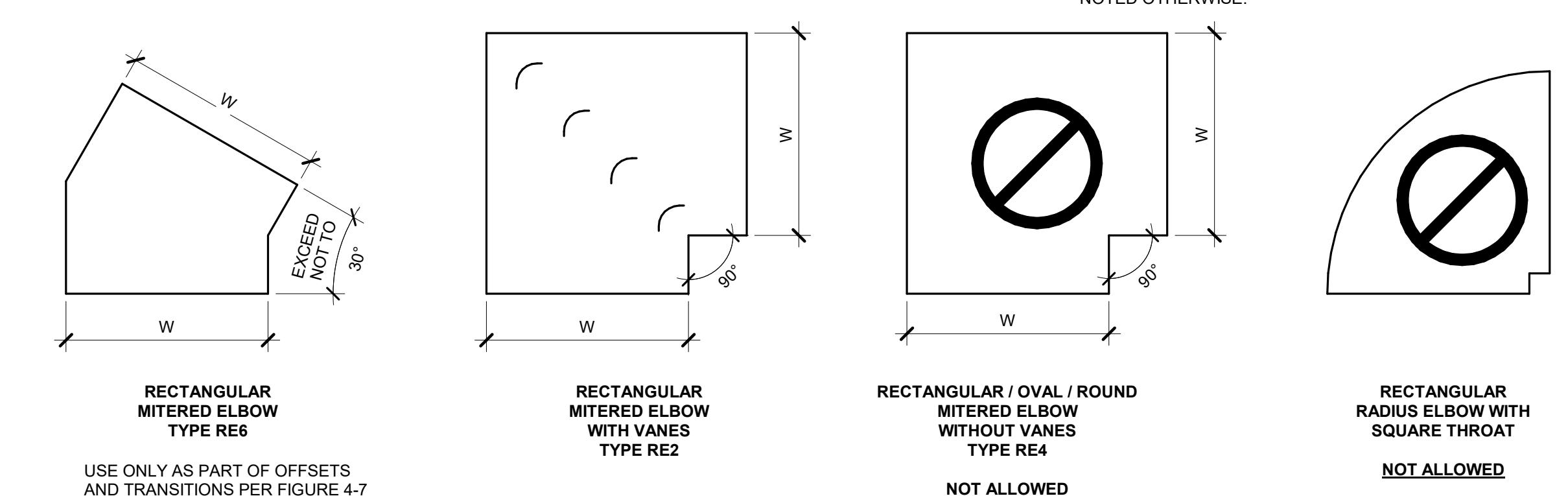
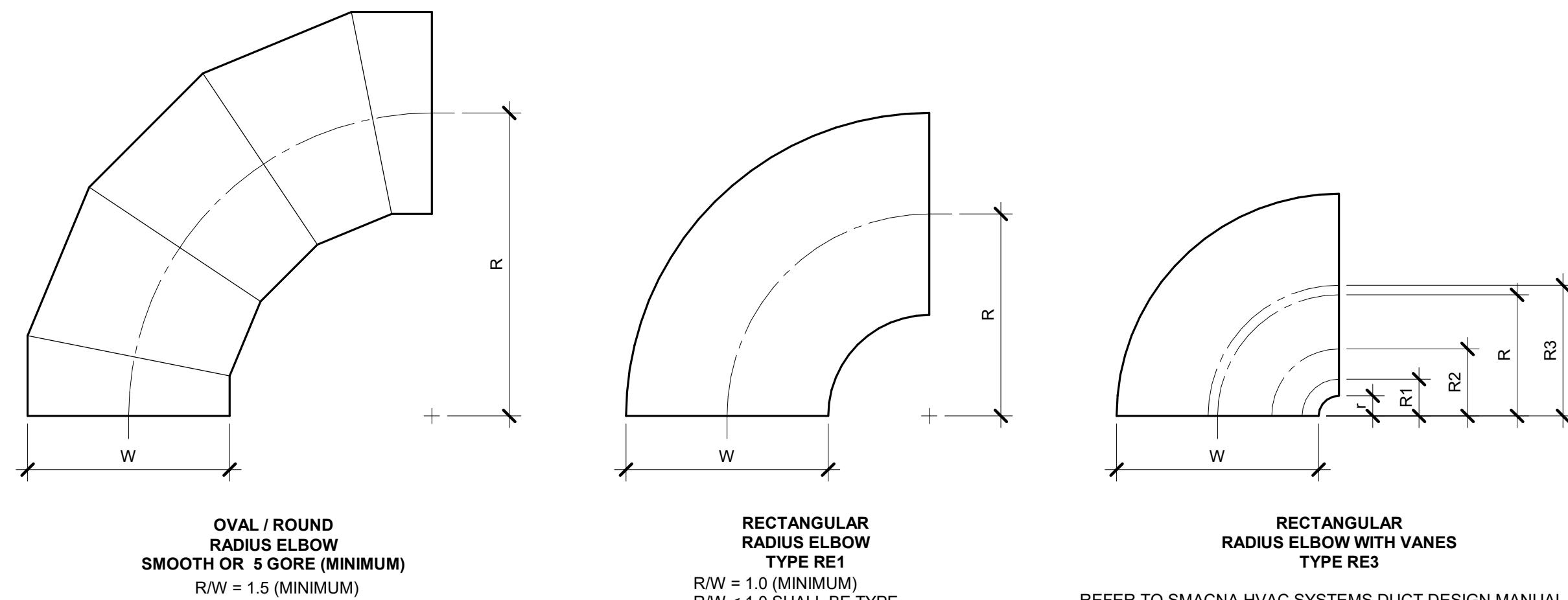
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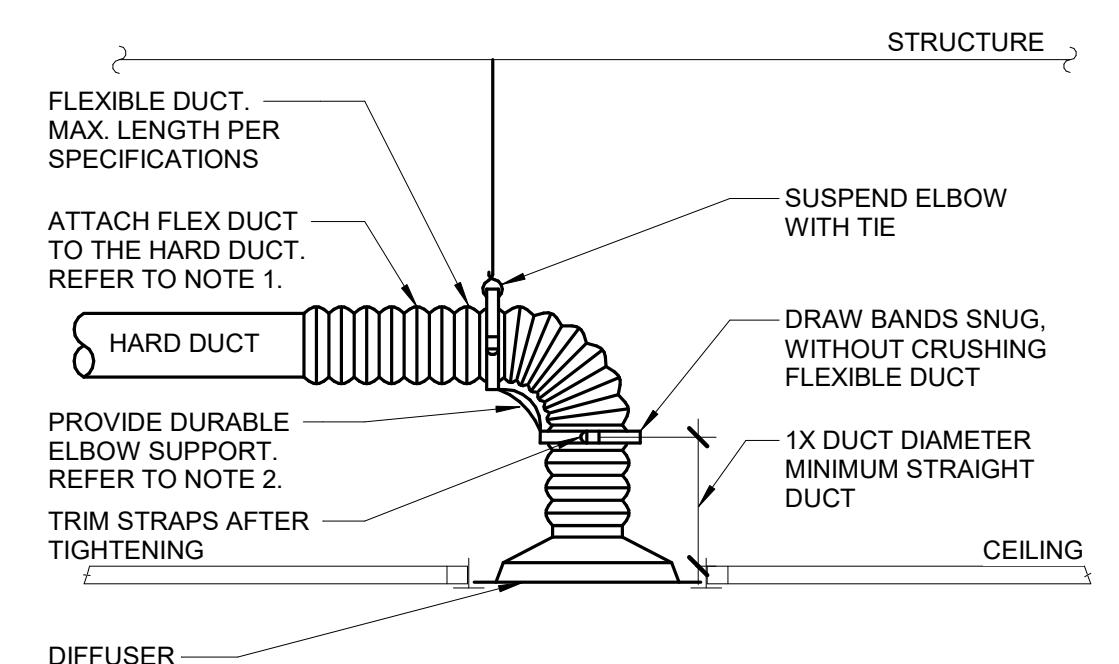
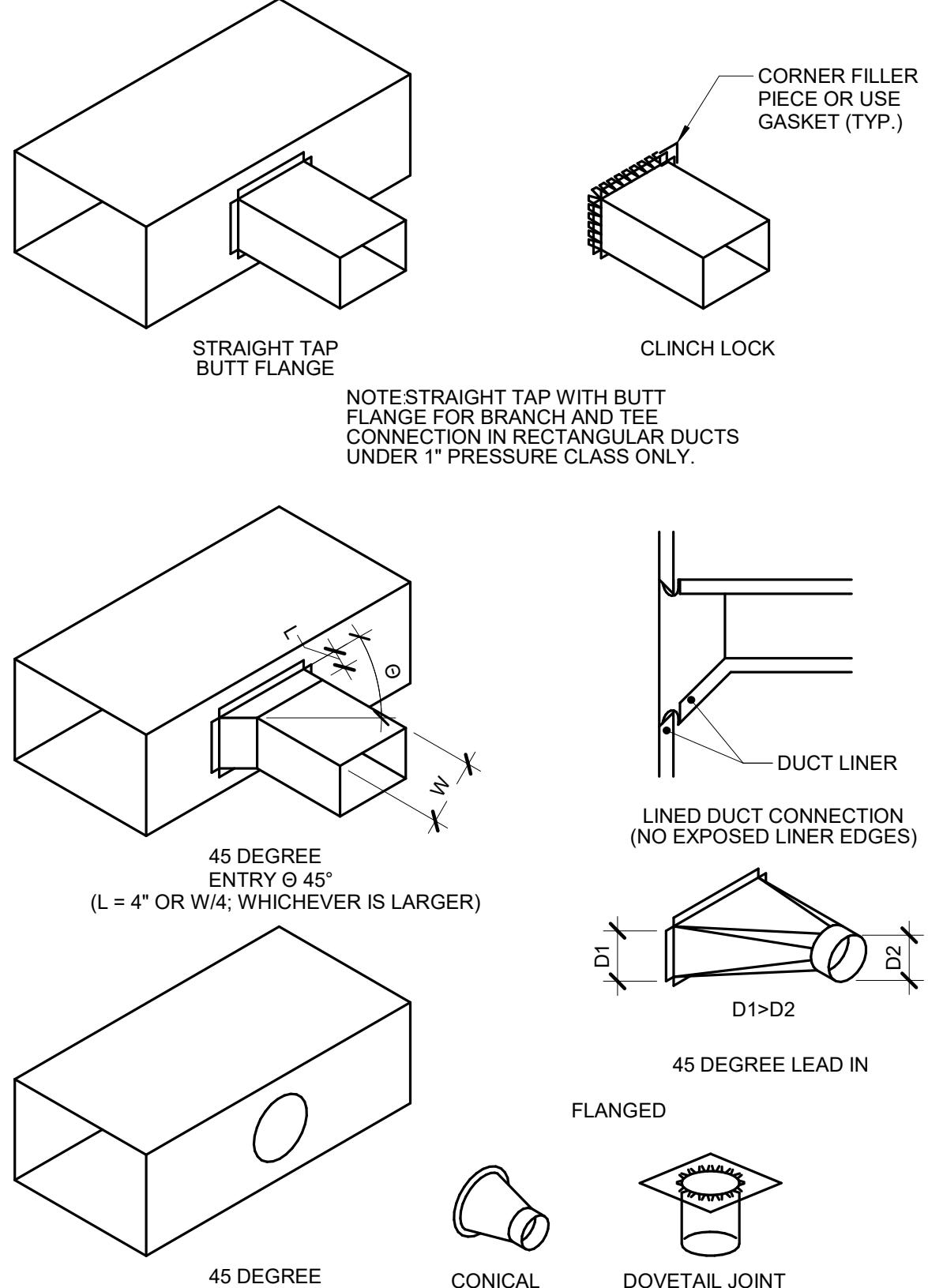
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NOTES:  
1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS  
IN STRAIGHT DUCT.  
2. REFER TO SPECIFICATIONS FOR ADDITIONAL  
INFORMATION.  
3. DEFAULT ELBOW SHALL BE TYPE "RE1".  
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT  
BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1  
OR RE3 MAY BE SUBSTITUTED FOR RE2.

### 1 ELBOW CONSTRUCTION

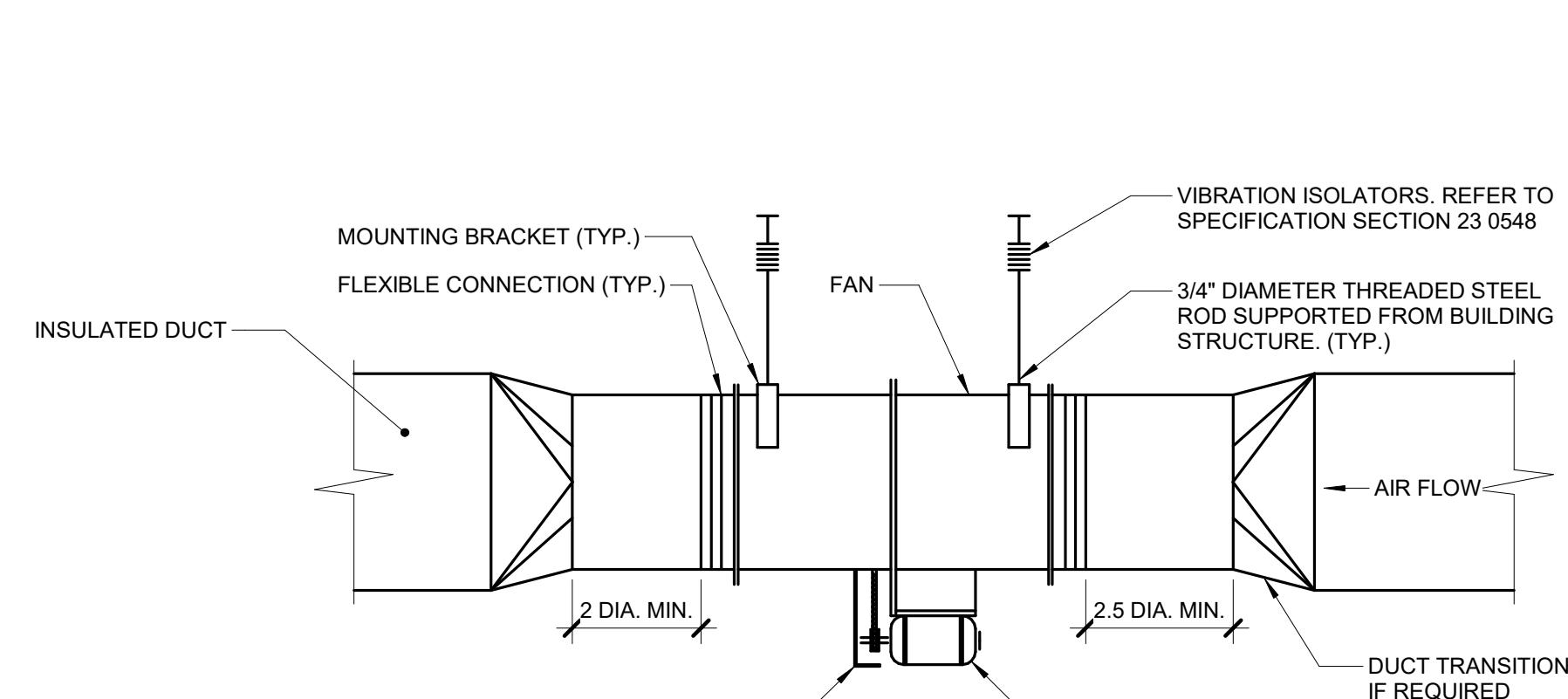
NO SCALE



- NOTES:  
1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE  
HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE  
INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL  
INSIDE OUT SO IT HAS NEAR EDGE PRINT TO TIE WRAPS.  
2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL:  
HART AND COOLEY - SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS -  
FLEXLIGHT, OR APPROVED EQUAL.

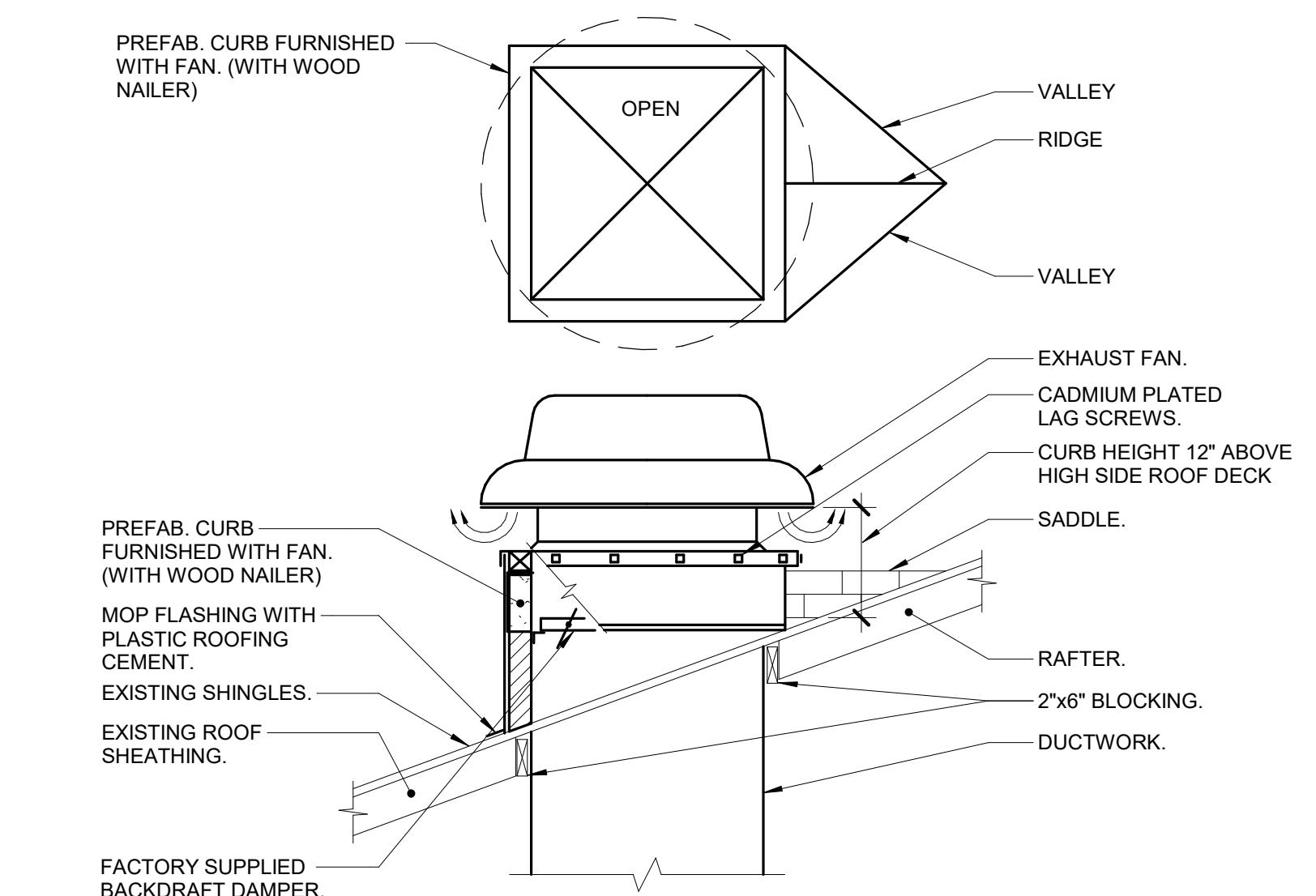
### 3 DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)

NO SCALE



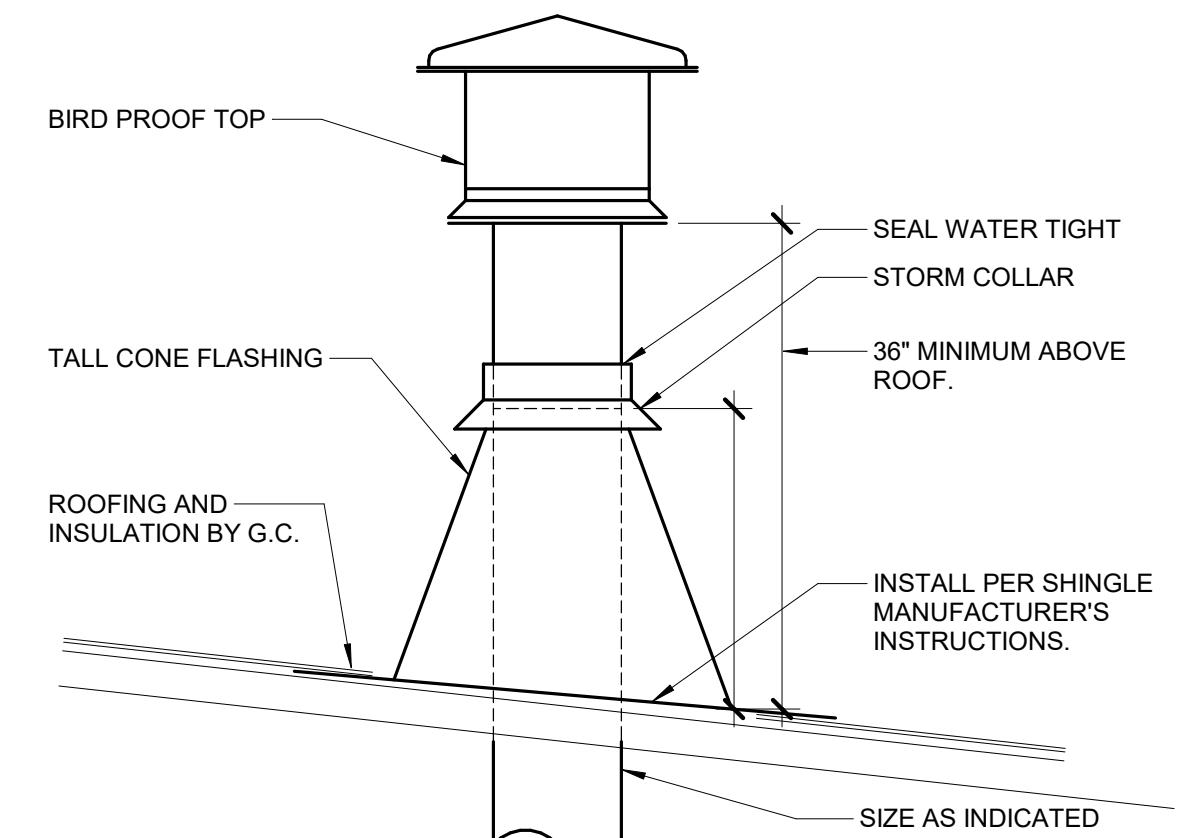
### 4 IN-LINE EXHAUST FAN

NO SCALE



### 5 ROOF FAN/HOOD CURB - SHINGLE ROOF

NO SCALE



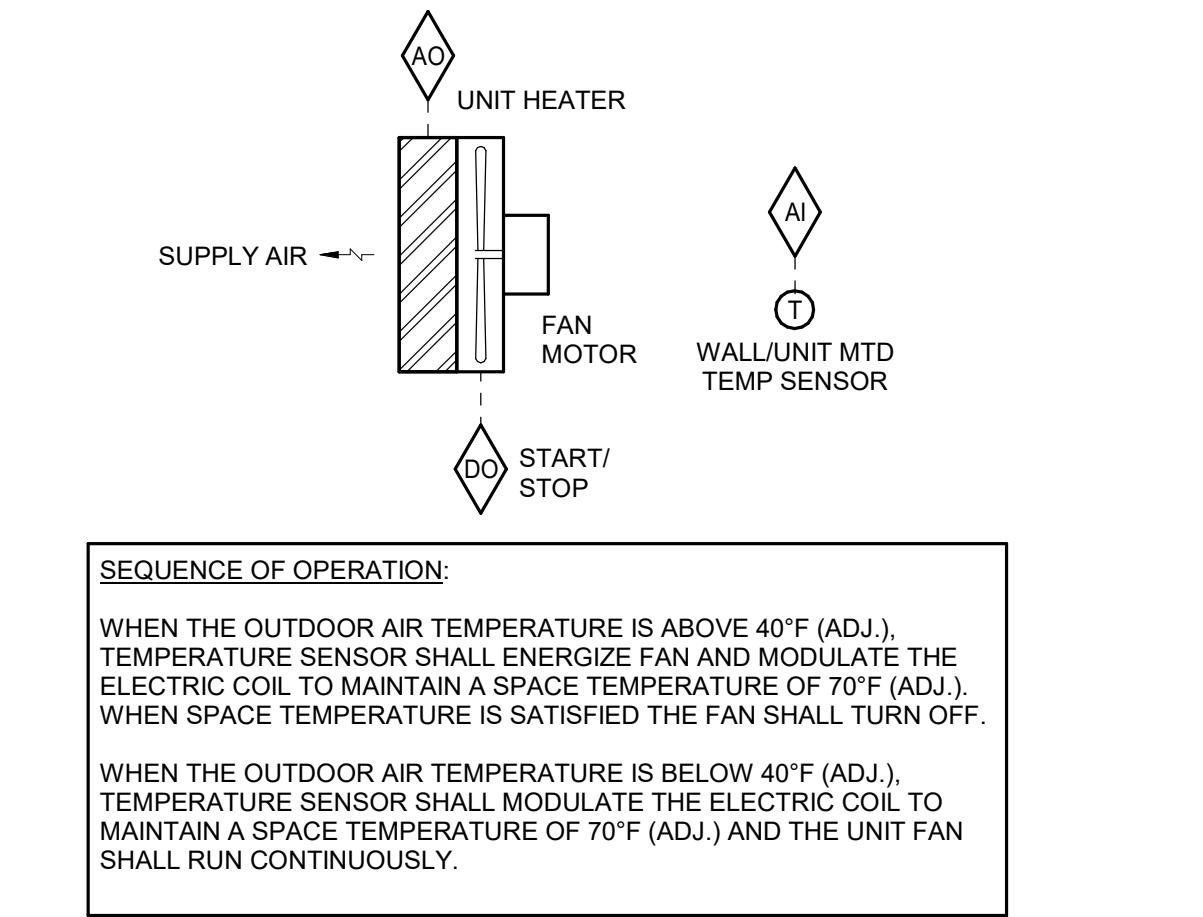
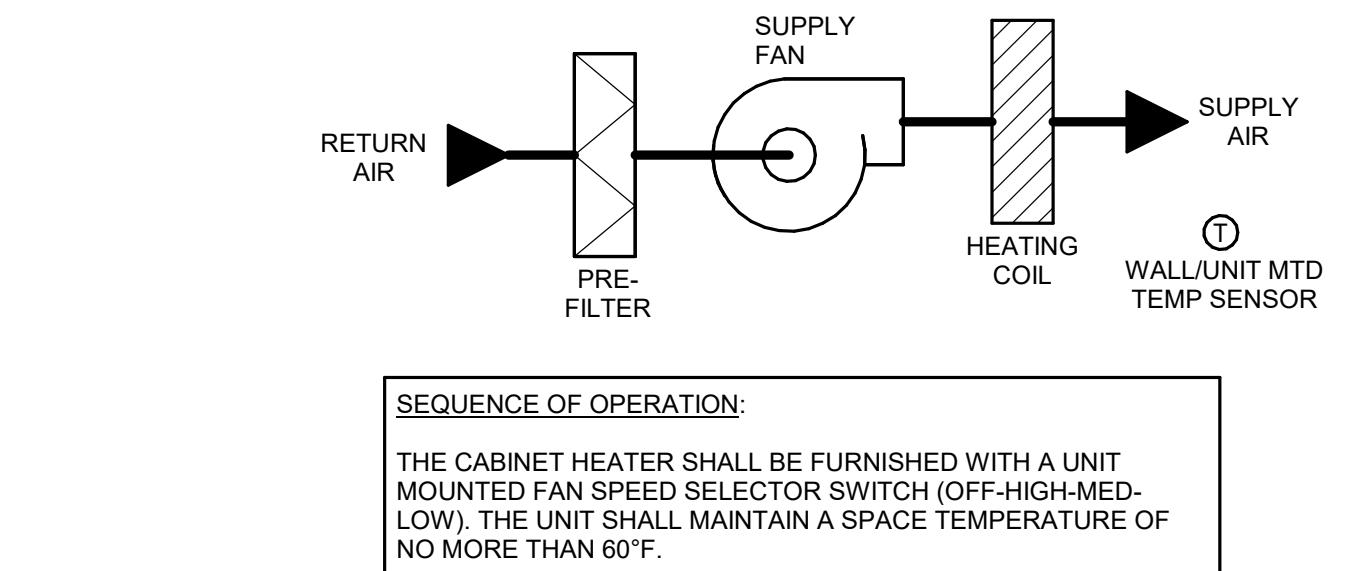
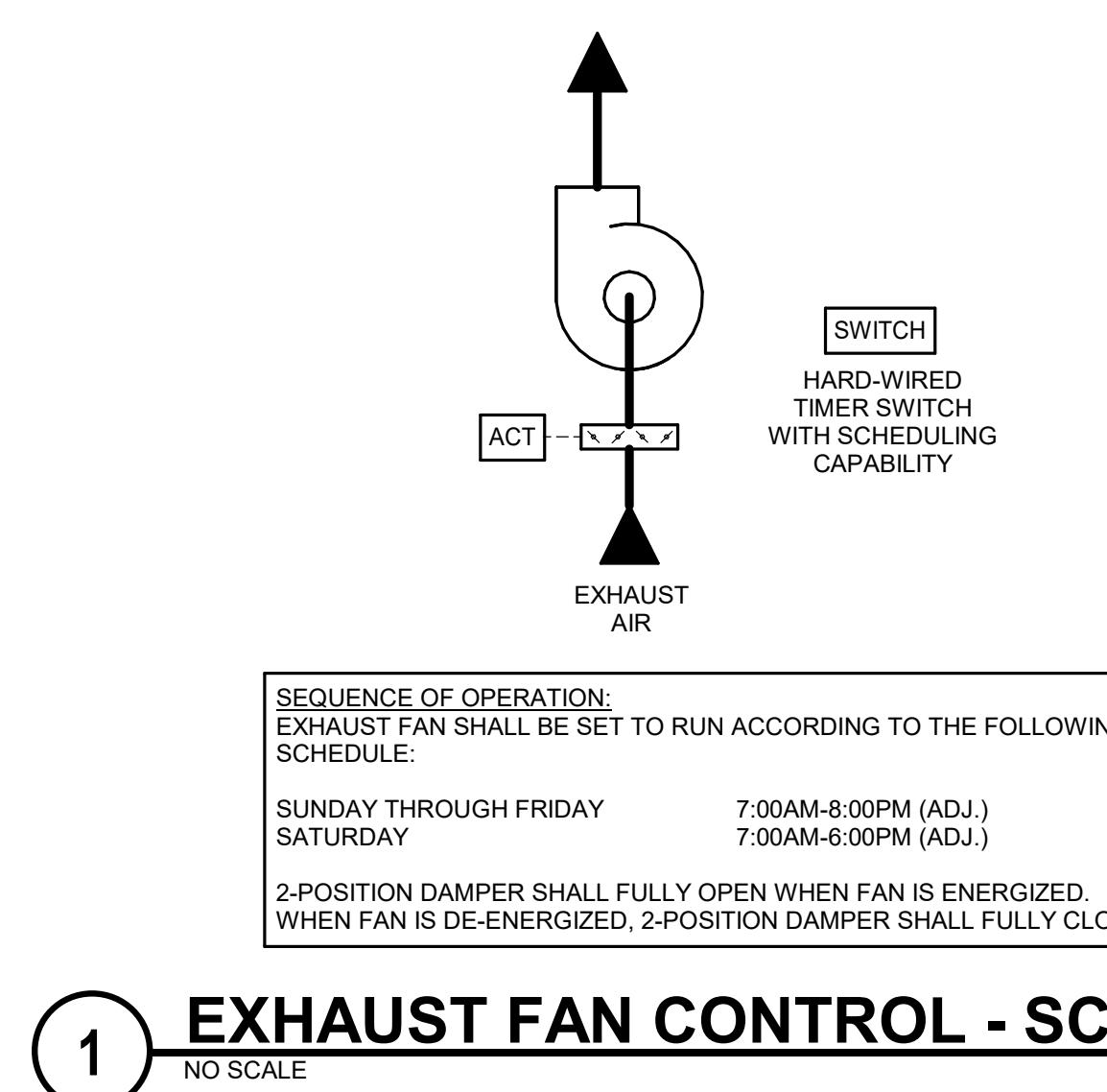
### 6 FLUE - THROUGH ROOF

NO SCALE

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## MECHANICAL DETAILS

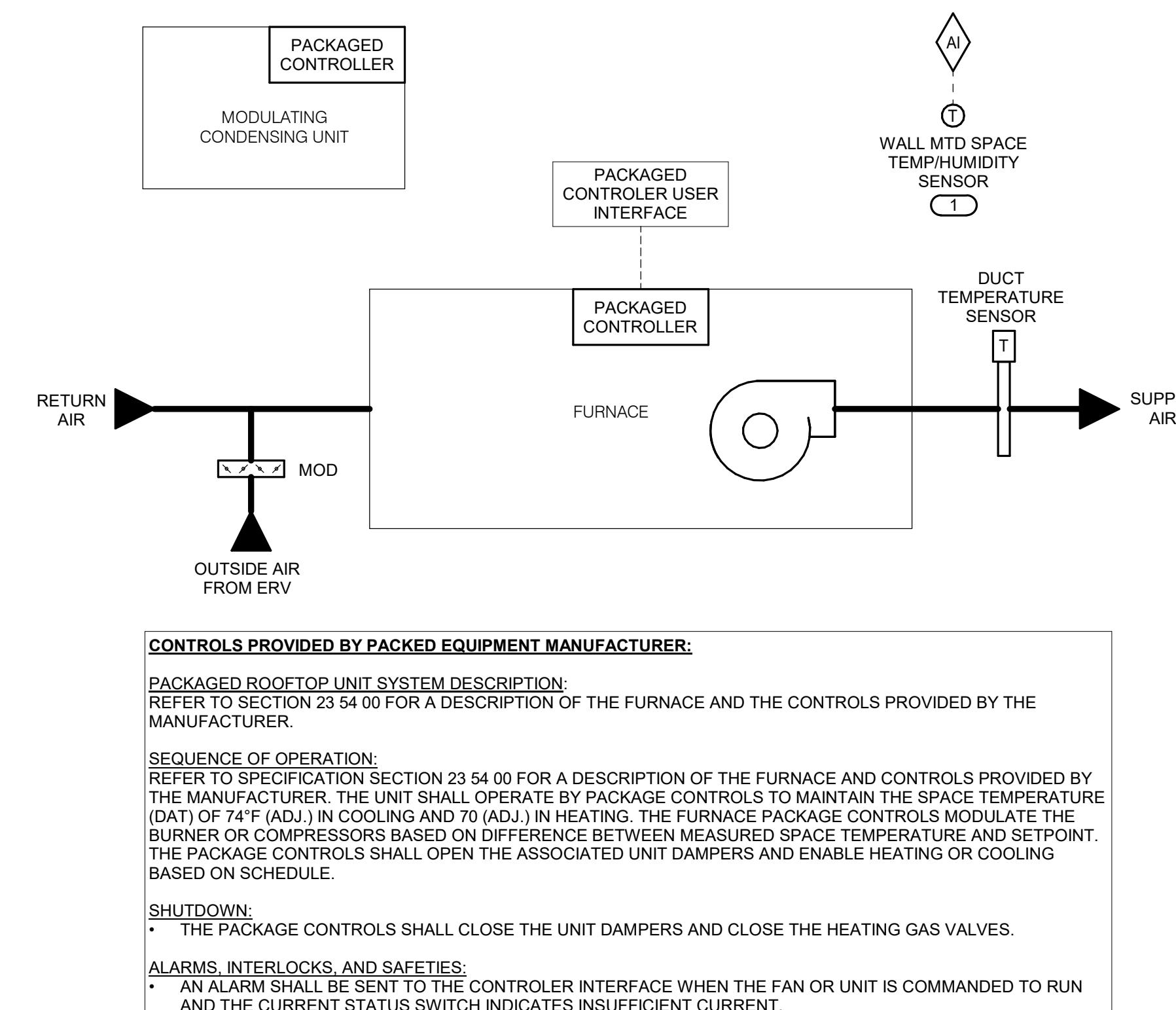
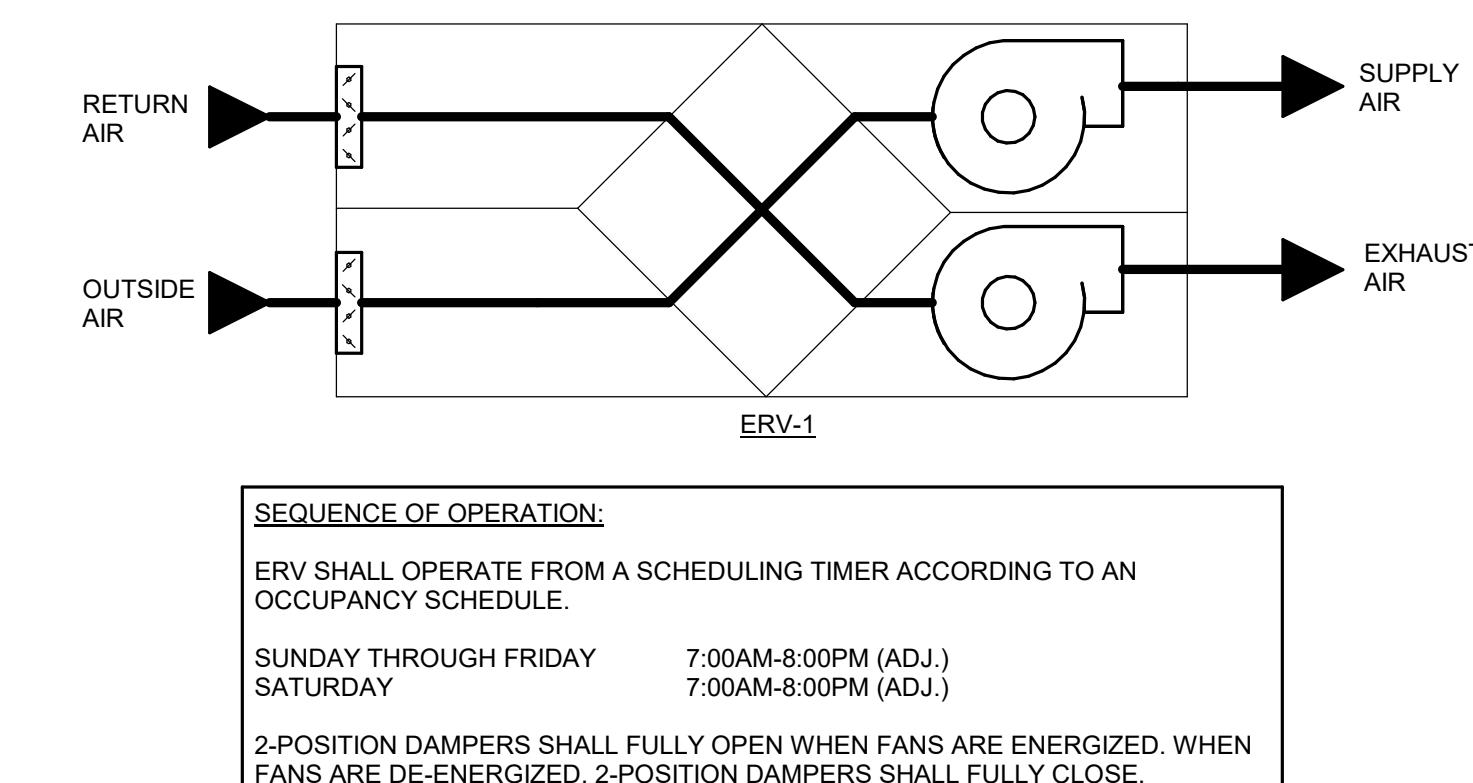
**M300**



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## CONTROL DIAGRAMS

**M400**

SCHEDULE GENERAL NOTES:											
A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY: MF = MANUFACTURER EC = ELECTRICAL CONTRACTOR MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR. ATC = AUTOMATIC TEMPERATURE CONTROL CONTRACTOR											
B. DISCONNECT TYPE: F = FUSED NF = NON-FUSED											
C. CONTROLLER STARTER TYPE: FV = FULL VOLTAGE WYE = WYE-DELTA SS = SOLID STATE (SOFT START) MS = MECHANICAL STARTER VFD = VARIABLE FREQUENCY DRIVE VFDB = VARIABLE FREQUENCY DRIVE WITH BYPASS											
D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.											
E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.											
F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.											
G. CURB TYPE: MF = STANDARD CURB BY MANUFACTURER GC = BY GENERAL CONTRACTOR SAC = SOUND ATTENUATOR CURB											

FURNACE SCHEDULE																													
NOTES: 1. TOTAL OPERATING WEIGHT INCLUDES FURNACE AND EVAPORATOR. CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES REQUIRED DUE TO UNIT HEAVIER THAN THE BASIS OF DESIGN AT NO ADDITIONAL COST. 2. PROVIDE WITH MANUFACTURER CONDENSATE PUMP. ROUTE DRAIN LINE TO HUB DRAIN. COORDINATE WITH P.C.																													
TAG NAME	AREA SERVED	EXT. S.P. IN. W.C.	CFM (HIGH SPEED)	HP	RPM	AIR FLOW TYPE	MIN EFF AFUE	INPUT MBH	MIN OUTPUT MBH	TURN DOWN/STEPS	TOTAL MBH	MCA	MOCP	VOLTAGE	PHASES	ELECTRICAL	DISCONNECT BY (NOTE A)	TYPE (NOTE B)	CONTROLLER/STARTER BY (NOTE A)	MAX. DIMENSIONS (NOTE 1)	LENGTH	WIDTH	HEIGHT	WEIGHT (NOTE 1)	CONTROL	MANUFACTURER	FURNACE MODEL	EVAPORATOR COIL MODEL	NOTES
F-1	ADULT SERVICES	0.5	2,000	1	1075	VERTICAL	97	120	116.4	MODULATING	40	48	15.4	20	120	1	MFR	NF	MFR	25°	29"	65"	236	5/M400	DAIKIN	DM97MC1205DN	CAPE4860D4	NOTE 2	
F-2	CHILDRENS SERVICES	0.5	2,000	1	1075	VERTICAL	97	120	116.4	MODULATING	40	48	15.4	20	120	1	MFR	NF	MFR	25°	29"	65"	236	5/M400	DAIKIN	DM97MC1205DN	CAPE4860D4	NOTE 2	
F-3	COMMUNITY ROOM	0.5	1,400	0.5	1075	VERTICAL	97	80	77.6	MODULATING	40	48	15.4	20	120	1	MFR	NF	MFR	25°	29"	65"	236	5/M400	DAIKIN	DM80VC0803BX	CAPE4860D4	NOTE 2	



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ENERGY RECOVERY VENTILATOR SCHEDULE																		
OUTSIDE/SUPPLY AIR STREAM																		
SUMMER WINTER SUMMER WINTER																		
RECOVERED RECOVERED ELECTRICAL																		

## CONDENSING UNIT SCHEDULE

NOTES:  
1. REFER TO SPECIFICATION SECTION 23 54 00 FOR ADDITIONAL REQUIREMENTS.

TAG NAME	AREA SERVED	NOMINAL DESIGN TONS	REFRIGERANT	MAX. REFRIGERANT CHARGE	AMBIENT TEMP °F	NUMBER OF COMPRESSORS	NUMBER OF FANS	MAXIMUM ALLOWABLE SOUND (dBA)	NO. OF POWER CONNECTIONS	ELECTRICAL	DISCONNECT BY (NOTE A)	TYPE (NOTE B)	CONTROLLER/STARTER BY (NOTE A)	MAX. DIMENSIONS	LENGTH	WIDTH	HEIGHT	WEIGHT	MANUFACTURER	MODEL (NOTE 1)	NOTES			
CU-1	F-1	4	R-410A	131	95.0	1	1	74	1	208	1	29	36.5	40	MFR	NF	MFR	37"	13"	39"	196	DAIKIN	D26VS4A810	
CU-2	F-2	4	R-410A	131	95.0	1	1	74	1	208	1	29	36.5	40	MFR	NF	MFR	37"	13"	39"	196	DAIKIN	D26VS4A810	
CU-3	F-3	4	R-410A	131	95.0	1	1	74	1	208	1	20	36.5	40	MFR	NF	MFR	37"	13"	39"	196	DAIKIN	D26VS4A810	

AIR TERMINAL SCHEDULE																				
NOTES: 1. CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION. 2. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.																				
TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES											
EG-1	INLET +2	35 DEGREE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	350R												
EG-2	12x12	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PAR												
ER-1	INLET +2	35 DEGREE DEFLECTION	1 1/4"	STEEL	WHITE	YES	TITUS	350R												
RG-1	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PAR	DUCTED RETURN											
SD-1	24x24	PANEL FACE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	FLUSH FACE PANEL											
SD-2	12x12	PANEL FACE	LAY-IN	STEEL	WHITE	NO	TITUS	300R	FRONT BLADES VERTICAL UNLESS NOTED OTHERWISE											
SG-1	INLET +2	DOUBLE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	300R												
SR-1	INLET +2	35 DEGREE DEFLECTION	1 1/4"	STEEL	WHITE	YES	TITUS	350R												



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NO. DESCRIPTION

DRAWN BY SEJCHI

CHECKED BY ROBMUR

## ELECTRICAL COVERSHEET

# E000

<b>VIEW KEY</b>	
	NAME → LEVEL NAME 10'-0" → HEIGHT ABOVE PROJECT 0'-0"
1 → INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL	
INDICATES DIRECTION OF TRUE NORTH PLAN OR DETAIL NUMBER PLAN OR DETAIL NAME	
<b>VIEW NAME</b> 1 → PLAN OR DETAIL SCALE	
INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS SIM → DETAIL REFERRED TO BY SECTION CUT SIM → SHEET DETAIL IS LOCATED ON → T101 T101 → 4 3 2	
LINE TYPE AND TAG KEY: NEW WORK BY THIS CONTRACTOR (WIDE LINE) NEW → EXISTING TO BE REMOVED (SHORT DASHED PATTERN) EXISTING → NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN) EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE) EXISTING → EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN) EXISTING → EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN) HALFTONING DOES NOT MODIFY SCOPE.	
'TAG-E' TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING <u>TAG-1</u> UNDERLINED TEXT INDICATES ADDITIONAL INFORMATION CAN BE FOUND ELSEWHERE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST	

<b>APPLICABLE CODES</b>	
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.	
BUILDING CODE:	IBC 2006 EDITION
FIRE CODE:	IFC 2006 EDITION
PLUMBING CODE:	ILLINOIS PLUMBING CODE CURRENT EDITION
MECHANICAL CODE:	IMC 2006 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2005 EDITION
LIFE SAFETY CODE:	NFPA 101 CURRENT EDITION
ENERGY CONSERVATION CODE:	IECC 2006 (ASHRAE 90.1 2004)
LOCAL BUILDING CODE:	CURRENT EDITION

<b>CONTRACTOR ABBREVIATION KEY</b>	
ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

<b>CONTACT PERSONS:</b>	
DESCRIPTION:	PERSON:
PROJECT MANAGER	MATT SNYDER
MECHANICAL	PETE COURTNEY
ELECTRICAL	MATT SNYDER
TECHNOLOGY	ALAN SWANSON

<b>ELECTRICAL ABBREVIATION KEY</b>	
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

<b>ELECTRICAL SYMBOL LIST</b>			
<b>SYMBOL:</b>	<b>TAG:</b>	<b>SPEC SECTION:</b>	<b>DESCRIPTION:</b>
	ECONN	26 05 33	ELECTRICAL CONNECTION
	JB	26 05 33	JUNCTION BOX
	FB-1	26 27 26	FLOOR BOX - DUAL COMPARTMENT
	FB-2	26 27 26	FLOOR BOX - MULTI SERVICE
	FB-3	26 27 26	FLOOR BOX - POWER ONLY
	PANEL ***	26 24 16	PANELBOARD - SURFACE MOUNT
	MX#/MS#	26 24 19	MANUAL SWITCH / STARTER. REFER TO DISC/STA SCHEDULE
	DS#/FDS#	26 28 16	DISCONNECT. REFER TO DISC/STA SCHEDULE
	PP	ARCH	PUSH PAD
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
	REC-USB	26 27 26	DUPLEX RECEPTACLE, USB CHARGING
	REC-SIM-L630R	26 27 26	RECEPTACLE, LOCKING L6-30R, 250V
	REC-TAMP	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	REC-TAMP-USB	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, USB, CHARGING, 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V

<b>ELECTRICAL SYMBOL LIST</b>			
<b>SYMBOL:</b>	<b>TAG:</b>	<b>SPEC SECTION:</b>	<b>DESCRIPTION:</b>
			LINEAR LUMINAIRES
			TROFFER
			WALL SCONCE LUMINAIRE
			DOWNLIGHT LUMINAIRE
			INDUSTRIAL LUMINAIRE
			POLE MOUNTED LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			EMERGENCY UNIT

<b>ELECTRICAL SYMBOL LIST</b>			
<b>SYMBOL:</b>	<b>TAG:</b>	<b>SPEC SECTION:</b>	<b>DESCRIPTION:</b>
	FAP-#	28 31 00	FIRE ALARM CONTROL PANEL
	FAA-#	28 31 00	FIRE ALARM ANNUNCIATOR
	FA-120	28 31 00	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED
	FA-122	28 31 00	FIRE ALARM DUCT SMOKE DETECTOR
	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
	FA-140	28 31 00	FIRE ALARM HEAT DETECTOR
	FA-161	28 31 00	FIRE ALARM RELAY
	FA-201	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - CEILING MOUNTED
	FA-221	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED
	FA-221	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - CEILING MOUNTED

- ELECTRICAL GENERAL NOTES:**
- ##### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
  - (#) INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E501.
  - "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
  - "SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY (EXTEND UNSWITCHED CIRCUIT LEG TO BATTERY) UPON LOSS OF POWER.
  - REFER TO SHEET E500 FOR LUMINAIRE SCHEDULE.
  - (Z##) INDICATES THE LIGHTING ZONES FOR THE SPACE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE. REFER TO SHEET E201.
  - VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE SUBMIT SPECIFICATIONS MANUFACTURER-REQUIRED. REFER TO E201 AS WELL AS THE APPROPRIATE DRAWINGS DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.
  - (EF) INDICATES CONTINUATION TO MATCHING MARKER NUMBER NOTED ON ANOTHER SHEET. REFER TO ADJACENT KEYED NOTED FOR SHEET NUMBER FOR CONTINUATION.

LUMINAIRE KEY:  
 F1 = FIXTURE TAG  
 1 = CIRCUIT NUMBER  
 a = SWITCH DESIGNATION  
 NL = SUBSCRIPT (IF APPLICABLE)  
 Z = ZONE DESIGNATION  
\*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

DEVICE KEY:  
 A = MOUNTING (IF APPLICABLE)  
 1 = CIRCUIT NUMBER  
\*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:  
 A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH  
 C MOUNT AT CEILING  
 H MOUNT ORIENTED HORIZONTALLY  
 EWC ELECTRIC WATER COOLER

- ELECTRICAL INSTALLATION NOTES:**
- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
  - CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
  - FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION); EXCEPT WHERE OTHERWISE NOTED, DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
  - FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
  - ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRED RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOP. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
  - CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
  - MOUNT ALL



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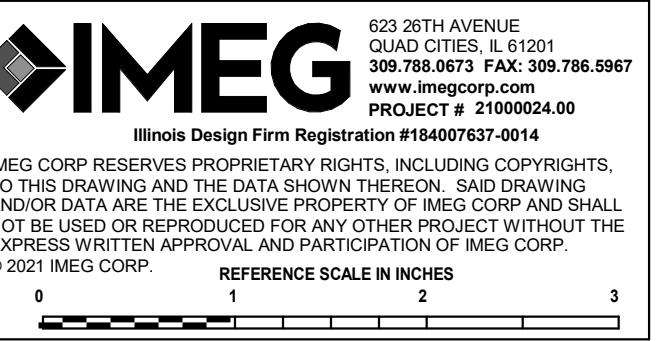
PROJECT NUMBER 182836

**SHEET NOTES:**

- |  |  |
|--|--|
| <ol style="list-style-type: none"><li>1. REFER TO E000 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES, ELECTRICAL SYMBOL LIST AND VIEW KEY.</li><li>2. REFER TO E501 FOR PANEL SCHEDULE.</li><li>3. REFER TO 1/E211 FOR PANEL 'A' LOCATION.</li></ol> | <ol style="list-style-type: none"><li>1. REFER TO 1/E211 FOR CIRCUIT LINE CONTINUATION TO MATCHING MARKER.</li><li>2. UTILITY TRANSFORMER, PAD BY E.C. PER UTILITY COMPANY REQUIREMENTS. COORDINATE ALL UTILITY WORK WITH UTILITY COMPANY. REFER TO 1/E300 FOR TRANSFORMER PAD DETAIL.</li><li>3. NEW UNDERGROUND SECONDARY SERVICE CONDUIT/CONDUCTOR, TRENCH AND BACKFILL AS REQUIRED. REFER TO 5/E300 FOR UNDERGROUND CONDUIT DETAIL. REFER TO 1/E400 FOR CONDUIT AND CONDUCTOR SIZE.</li><li>4. REFER TO 1/E301 FOR EXTENDED POLE BASE DETAIL.</li><li>5. REFER TO 2/E300 FOR GROUND MOUNT BASE DETAIL.</li><li>6. UTILITY PRIMARY UNDERGROUND CONDUIT. REFER TO 1/E400 FOR CONDUIT AND CONDUCTOR SIZE.</li></ol> |
|--|--|

**KEYNOTES:** #

1. REFER TO 1/E211 FOR CIRCUIT LINE  
CONTINUATION TO MATCHING MARKER.
  2. UTILITY TRANSFORMER, PAD BY E.C. PER  
UTILITY COMPANY REQUIREMENTS.  
COORDINATE ALL UTILITY WORK WITH UTILITY  
COMPANY. REFER TO 1/E300 FOR  
TRANSFORMER PAD DETAIL.
  3. NEW UNDERGROUND SECONDARY SERVICE  
CONDUIT/CONDUCTOR, TRENCH AND BACKFILL  
AS REQUIRED. REFER TO 5/E300 FOR  
UNDERGROUND CONDUIT DETAIL. REFER TO  
1/E400 FOR CONDUIT AND CONDUCTOR SIZE.
  4. REFER TO 1/E301 FOR EXTENDED POLE BASE  
DETAIL.
  5. REFER TO 2/E300 FOR GROUND MOUNT BASE  
DETAIL.
  6. UTILITY PRIMARY UNDERGROUND CONDUIT.  
REFER TO 1/E400 FOR CONDUIT AND  
CONDUCTOR SIZE.



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REFERENCE SCALE IN INCHES

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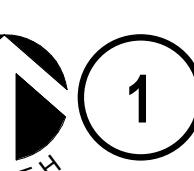
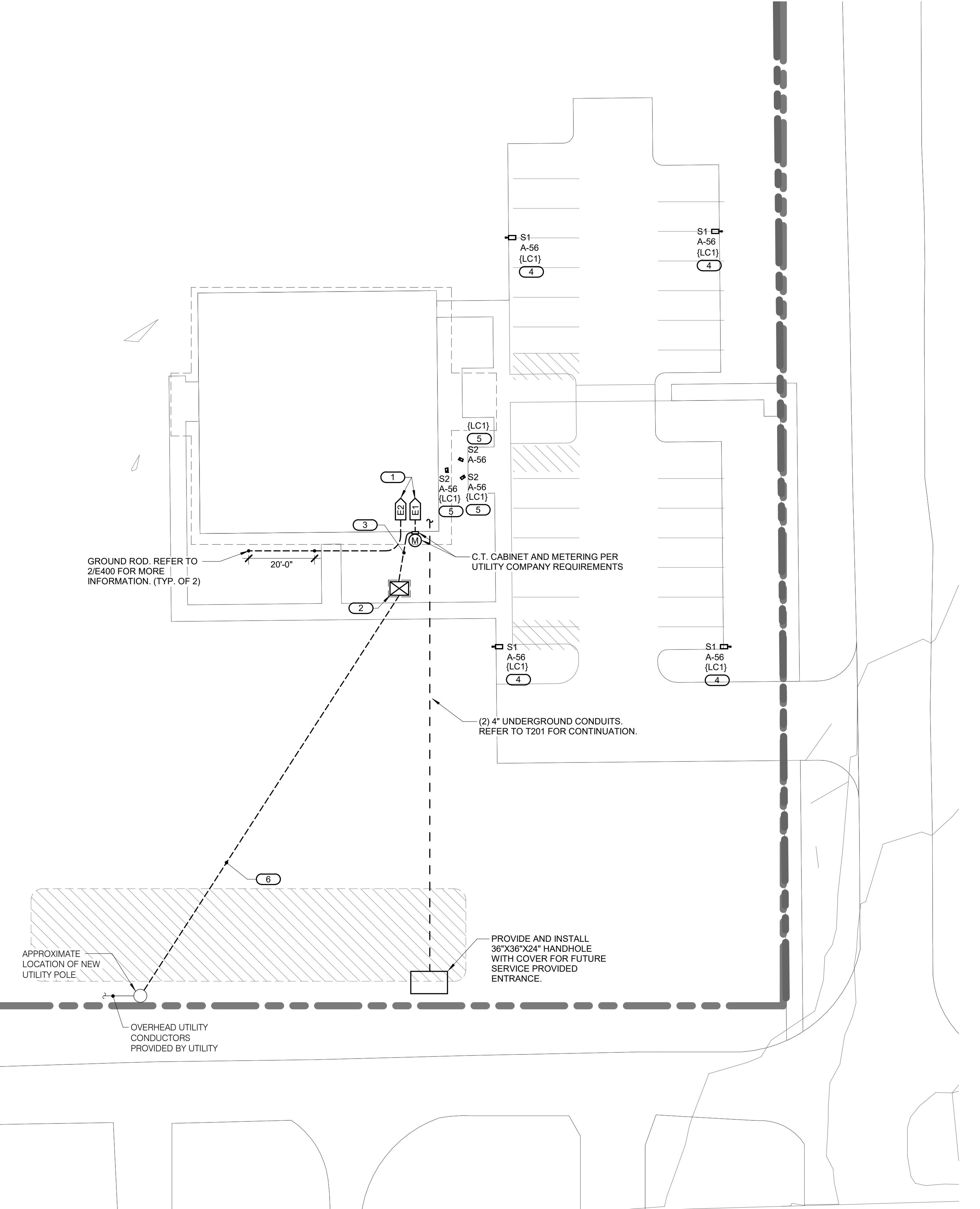
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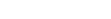
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**NO. DESCRIPTION**

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CHECKED BY ROBMUR

## SITE - ELECTRICAL





# **SITE - ELECTRICAL**

1" = 20'-0"

1" = 20'-0"

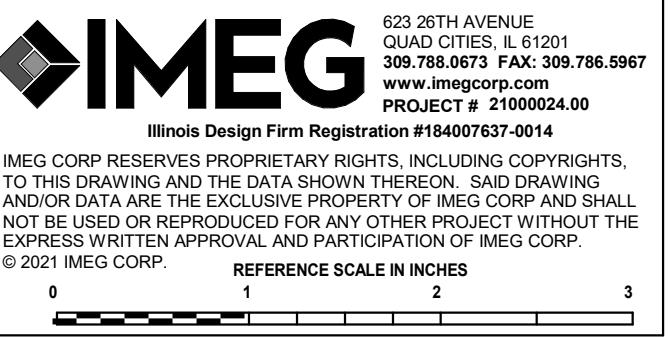
**E001**

**SHEET NOTES:**

- REFER TO E500 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES, ELECTRICAL SYMBOL LIST AND VIEW KEY.
- REFER TO E500 FOR LUMINAIRE SCHEDULE.
- REFER TO E501 FOR PANEL SCHEDULE.
- COORDINATE SWITCH LOCATIONS WITH OTHER TRADES.

**KEYNOTES: #**

- PROVIDE FOR AN OVERRIDE TO TURN ON/OFF ALL OF THE EXTERIOR LIGHTING FIXTURES.
- FIELD COORDINATE THE LIGHTING WORK WITH PIPING, DUCT AND CONDUIT WORK IN THE SPACE AND ADJUST ACCORDINGLY THE MOUNTING LOCATION AND HEIGHT OF LIGHT FIXTURES IN THE SPACE.
- REFER TO E201 FOR LIGHTING FIXTURES GOING TO BE CONTROL VIA THE SWITCH.
- COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT. DESIGN INTENT IS TO BE AS HIGH AS POSSIBLE, LOCATED TO AVOID SNOW COVER, AND TO POINT NORTH.



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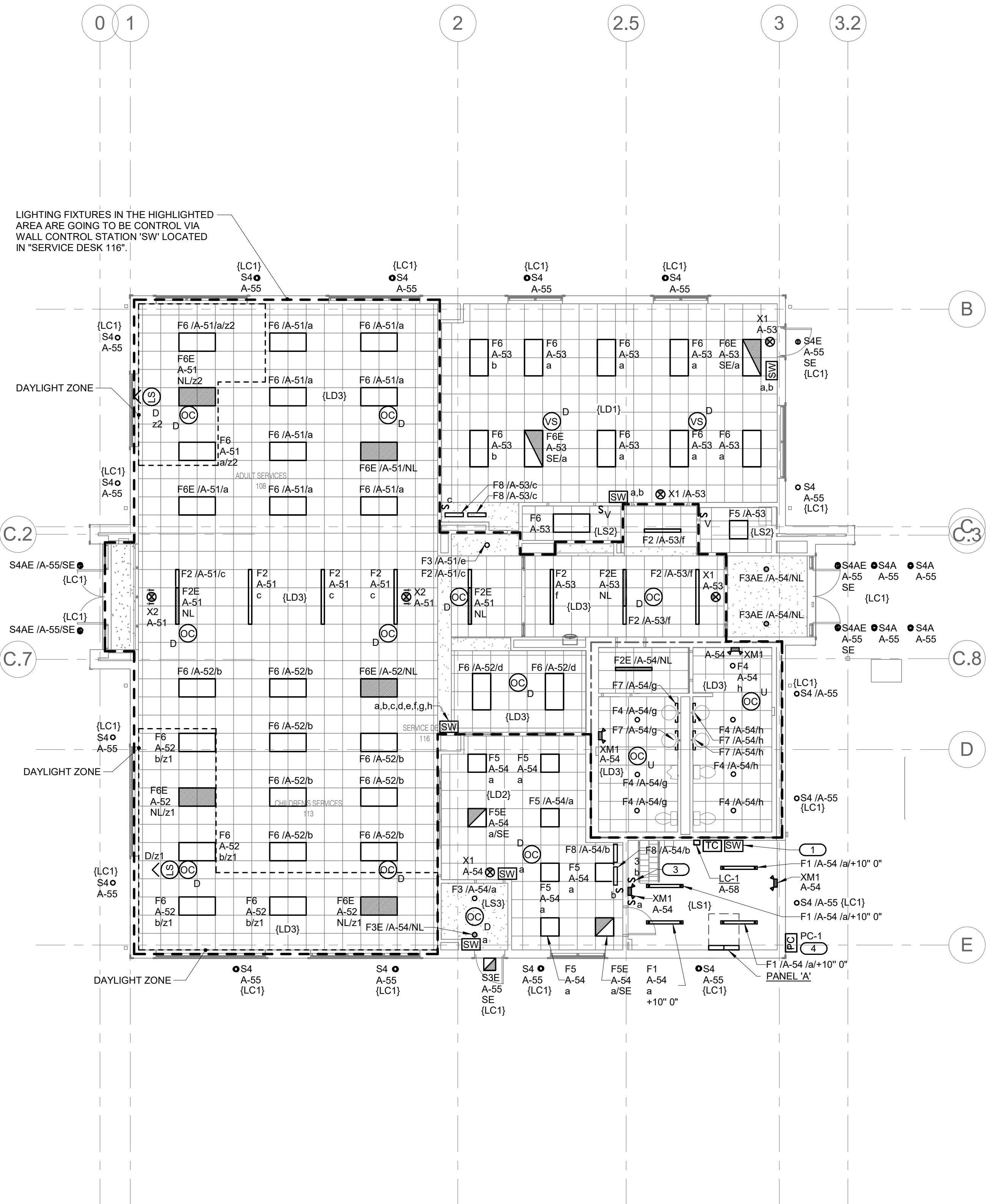
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**MAIN &  
MEZZANINE LEVEL  
- LIGHTING**



### 2 MECHANICAL MEZZANINE - LIGHTING

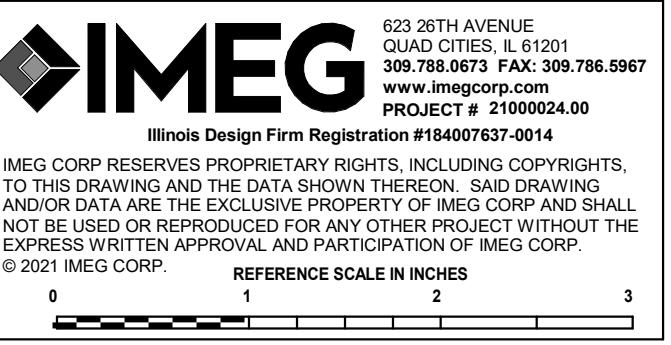
1/8" = 1'-0"



### 1 LEVEL 1 - LIGHTING

1/8" = 1'-0"

**E201**



**SHEET NOTES:**

- REFER TO E500 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES, ELECTRICAL SYMBOL LIST AND VIEW KEY.
- REFER TO E501 FOR PANEL SCHEDULE AND DISCONNECT & STARTER SCHEDULE.

**KEYNOTES: #**

- PROVIDE CONCEALED CONDUIT TO ALL OF THE SLAVE GATES FOR LOW VOLTAGE WIRING PROVIDED WITH THE GATES. COORDINATE WITH OWNERS SECURITY GATE VENDOR.
- PROVIDE POWER ABOVE CEILING FOR FUTURE EQUIPMENT.
- INSTALL AND WIRE TWO PUSH PADS (PROVIDED BY G.C.) FOR EACH OPENER. COORDINATE PUSH PAD LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- REFER TO I/E001 FOR CIRCUIT LINE CONTINUATION FROM MATCHING MARKER.
- MOUNT TRANSFORMER ABOVE THE CEILING AND APPROXIMATE CAVEAT: TRANSFORMER TO BE FURNISHED BY P.C. AND INSTALLED BY E.C. REFER TO 4/E301 FOR ELECTRONIC SENSOR WIRING DETAIL.
- POWER CONDUIT STUB TURN-UP LOCATION. RUN CONDUIT STUB CONCEALED IN NEW WALL FROM SLAB TO ABOVE ACCESSIBLE CEILING SPACE. FIELD COORDINATE THE EXACT LOCATION.
- DISCONNECT AND/OR CONTROLLER / STARTER PROVIDED BY OTHERS AND WIRED BY E.C.
- PROVIDE FLUSH MOUNT MEDIA ENCLOSURE WITH INTEGRAL RECEPTACLE (PRIMEX PR1500N OR EQUAL).

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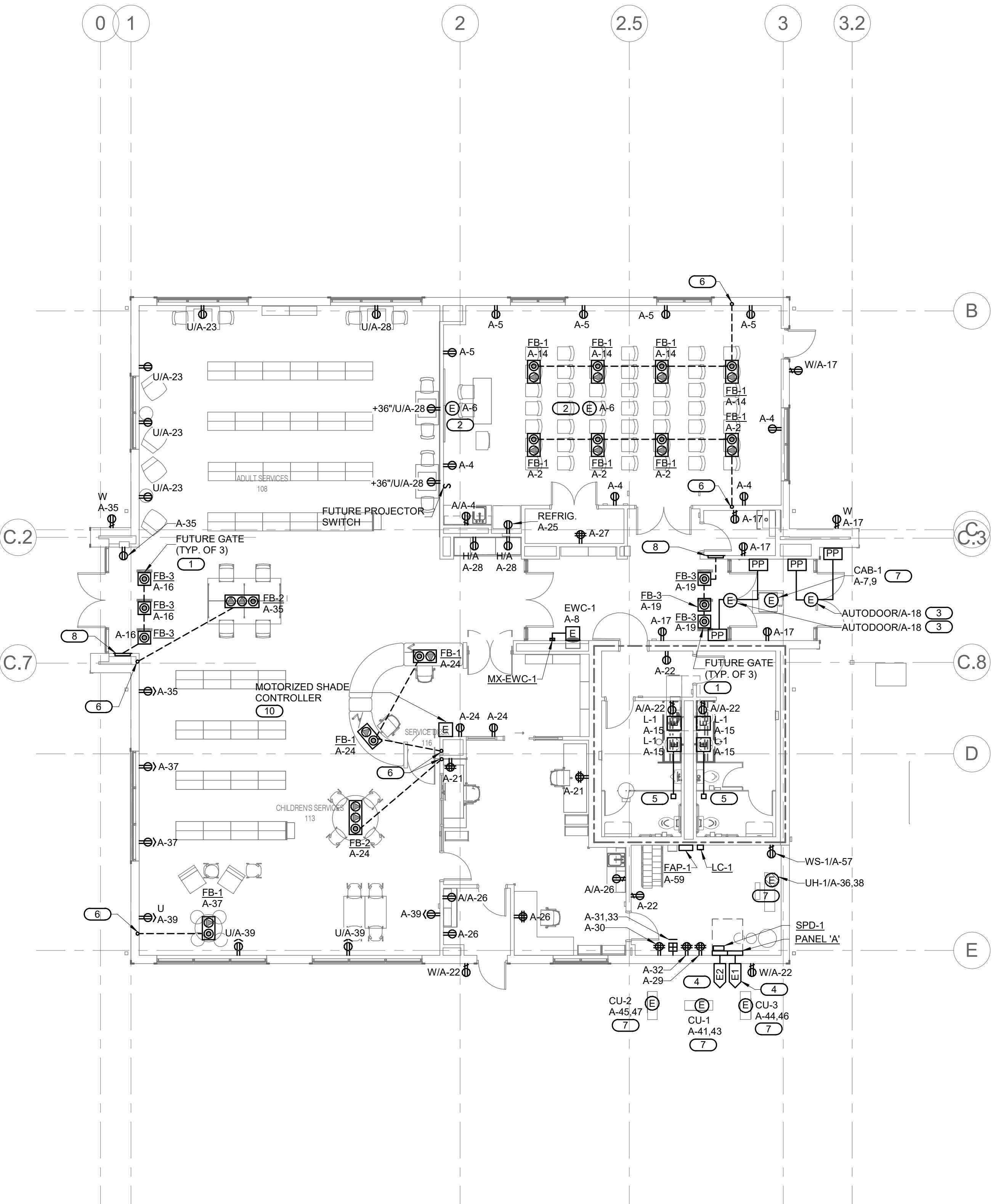
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**MAIN &  
MEZZANINE LEVEL  
- POWER**

2 MECHANICAL MEZZANINE - POWER  
1/8" = 1'-0"

1 LEVEL 1 - POWER  
1/8" = 1'-0"

**E211**



SHEET NOTES:	KEYNOTES: #
<p>1. REFER TO E500 FOR GENERAL ELECTRICAL NOTES, ELECTRICAL INSTALLATION NOTES, ELECTRICAL SYMBOL LIST AND VIEW KEY.</p> <p>2. REFER TO 3/E300 FOR FIRE ALARM OPERATION MATRIX AND 4/E300 FOR FIRE ALARM RISER DETAIL.</p>	<p>1. MOUNT WITHIN 3'-0" OF FAP-1.</p> <p>2. FIELD COORDINATE EXACT LOCATION WITH FIRE DEPARTMENT PRIOR TO ROUGH-IN.</p> <p>3. INSTALL SAMPLING TUBES PER MANUFACTURER'S INSTRUCTIONS IN STRAIGHT RUN OF DUCT. COORDINATE INSTALLING WITH M.C. PRIOR TO ROUGH-IN. SEAL ALL DUCT PENETRATION AIR-TIGHT.</p> <p>4. PROVIDE FIRE ALARM ADDRESSABLE RELAY WITHIN FURNACE CONTROL CABINET. COORDINATE EXACT MOUNTING LOCATION WITH M.C. RELAY SHALL PROVIDE SIGNAL TO SHUTDOWN FURNACE. MOUNT WITHIN 3'-0" OF CONTROLLER.</p>



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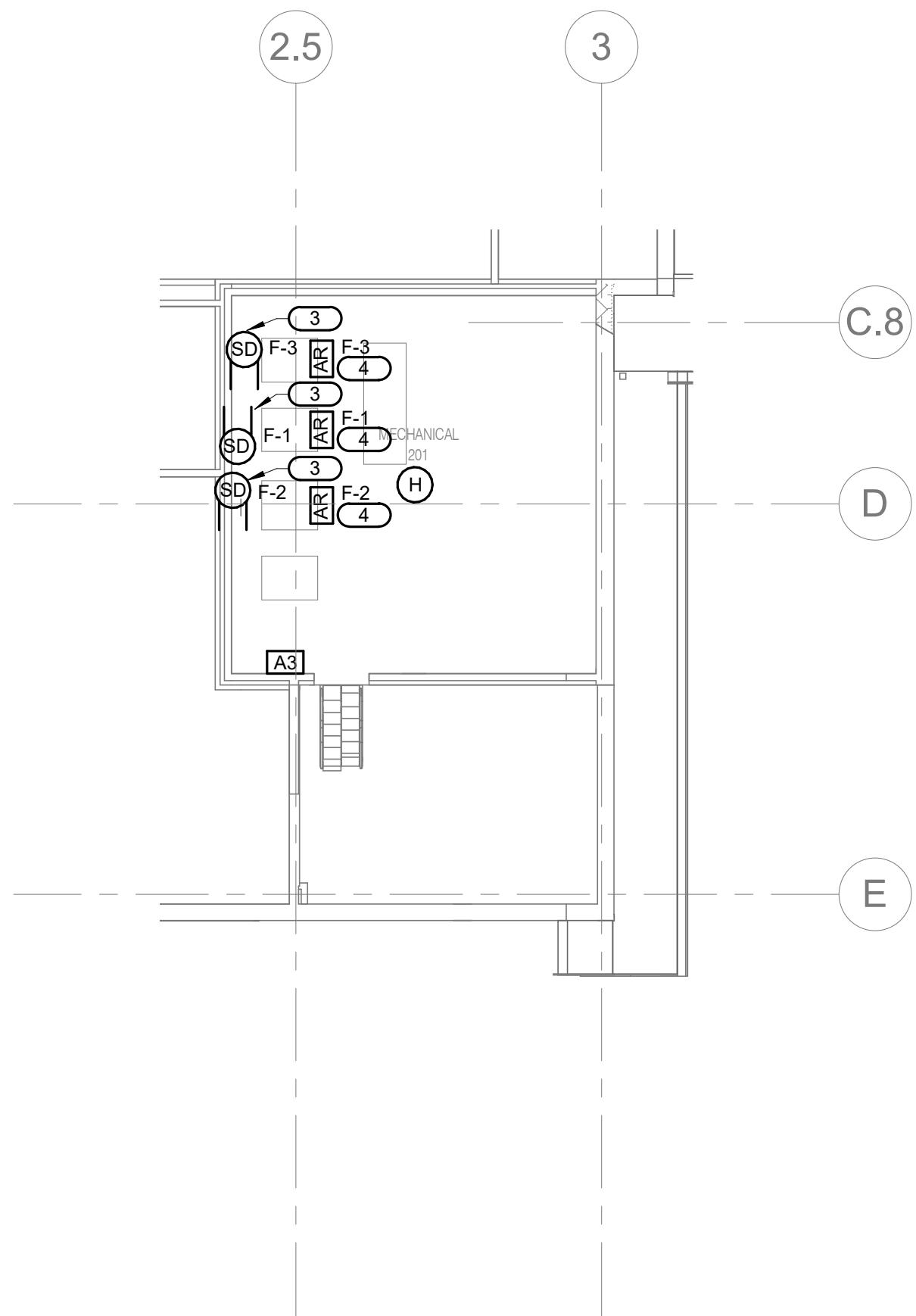
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MAIN &  
MEZZANINE LEVEL  
- SYSTEMS



**2 MECHANICAL MEZZANINE - SYSTEMS**

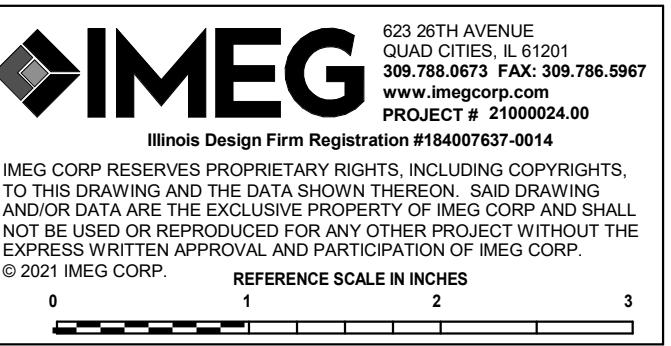
1/8" = 1'-0"



**1 LEVEL 1 - SYSTEMS**

1/8" = 1'-0"

**E221**



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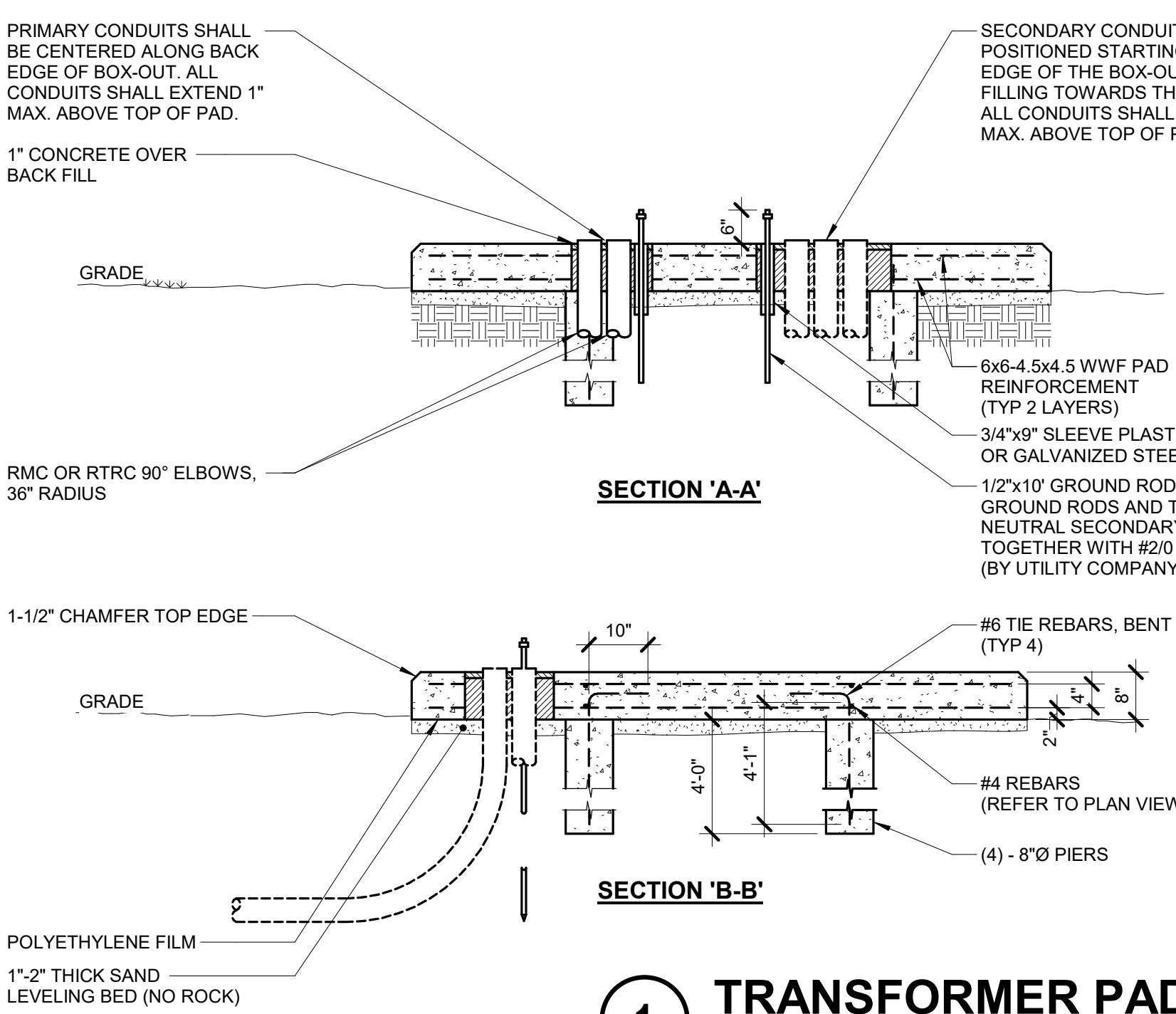
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## ELECTRICAL DETAILS

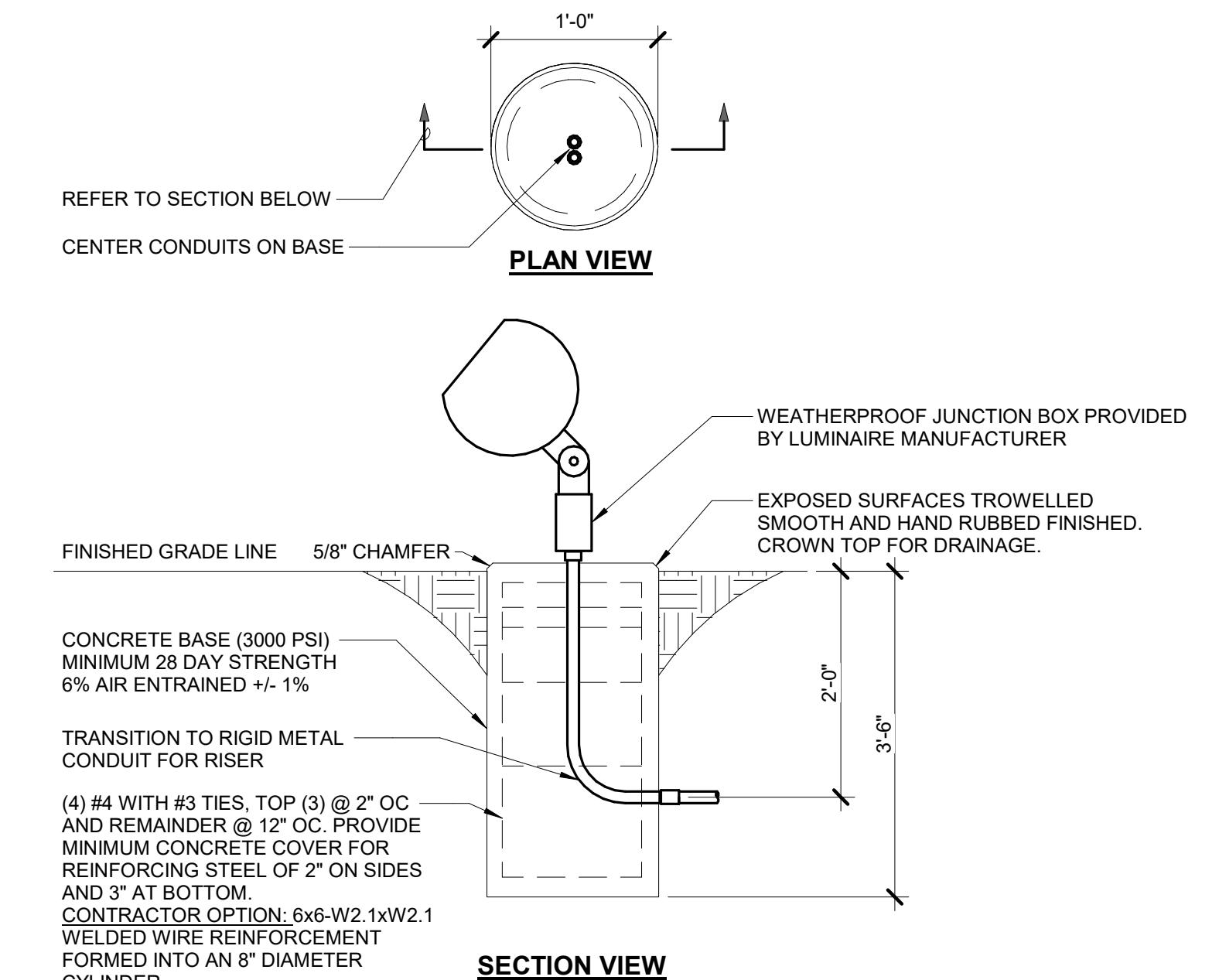
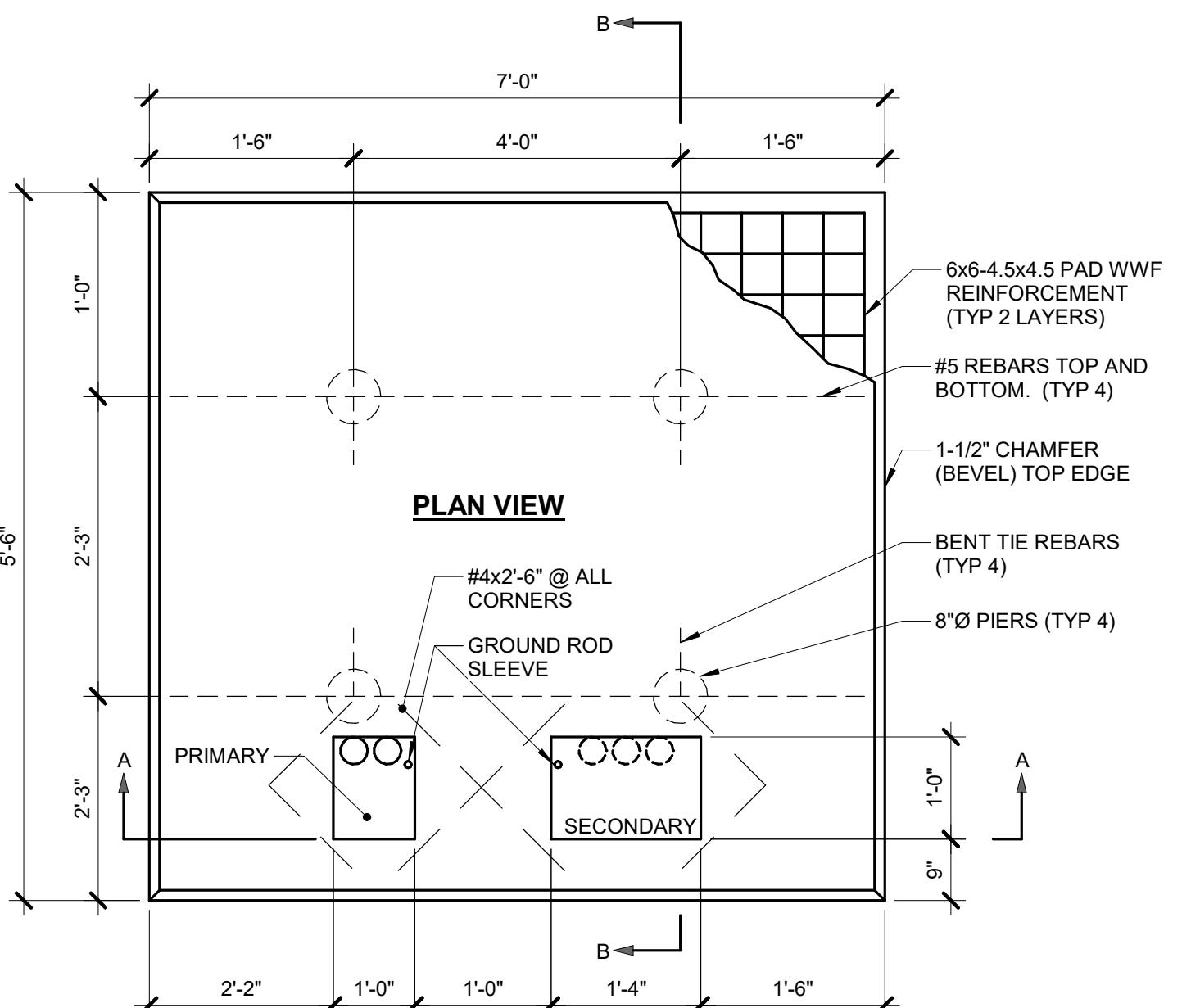


### 1 TRANSFORMER PAD DETAIL

NO SCALE

## NOTES:

1. CONCRETE:  $f_c \geq 3500$  PSI AT 28 DAYS.
2. REINFORCING STEEL: ASTM A 615-60.
3. 6x6-4.5x4.5 WELDED WIRE FABRIC (WWF): ASTM A 185.
4. SOIL: > 95 PERCENT PROCTOR DENSITY OR 55 PSI PBV.
5. E.C. TO PROVIDE TRANSFORMER PAD. DIMENSIONS PROVIDED ARE APPROXIMATE BASED ON INDUSTRY STANDARD EQUIPMENT SIZES.



### 2 GROUND MOUNT BASE DETAIL

NO SCALE

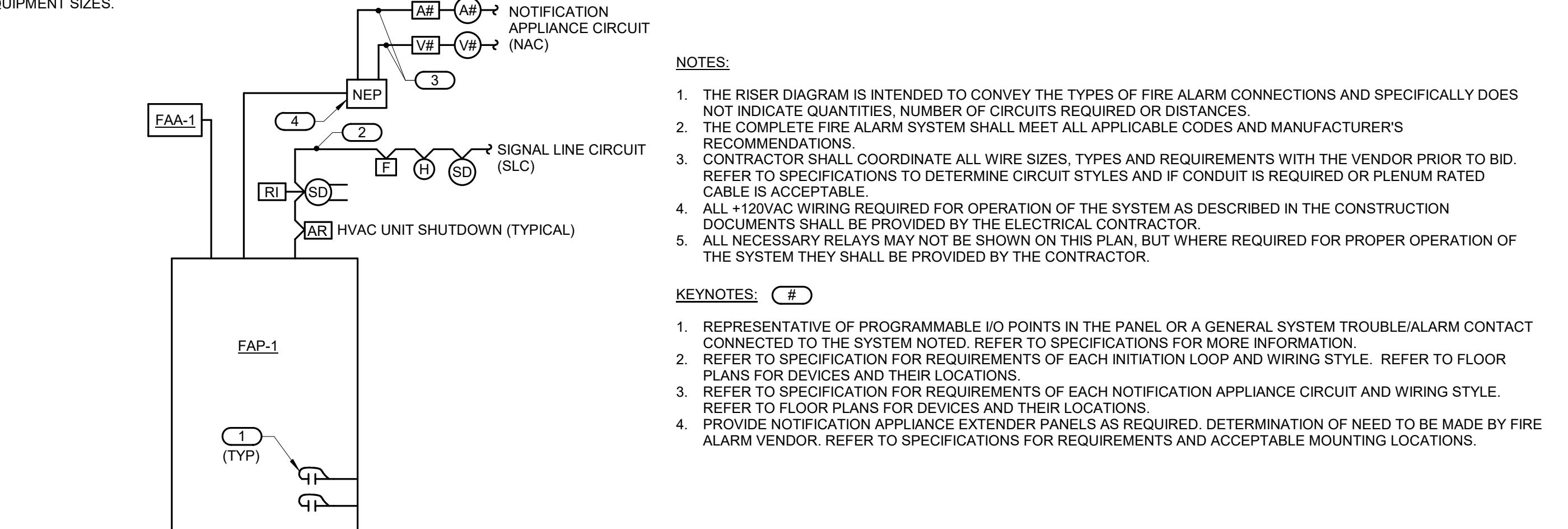
SYSTEM INPUTS	SEQUENCE OF OPERATION			
	PANEL/ANNUNCIATOR ALARM INDICATION	PANEL/ANNUNCIATOR SUPERVISORY INDICATION	PANEL/ANNUNCIATOR TROUBLE INDICATION	AR
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL LOW BATTERY	X			
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL BATTERY OR CHARGER FAILURE		X		
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL ABNORMAL SWITCH OR CONTROL POSITION	X			
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT		X		
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL AC POWER LOSS OR IRREGULARITY		X		
NOTIFICATION APPLIANCE CIRCUIT OR SLC LOOP GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT	X			
INITIATING DEVICE FAILURE OR COMMUNICATION ERROR		X		
FIRE ALARM PANEL MANUAL FIRE DRILL	X	X	X	
MANUAL PULL STATION	[F]	X	X	X
SMOKE DETECTOR	(SD)	X	X	X
HEAT DETECTOR	(H)	X	X	X
SMOKE DETECTOR FOR HVAC CONTROL	(SD)	X	X	X

### 3 FIRE ALARM OPERATION MATRIX

NO SCALE

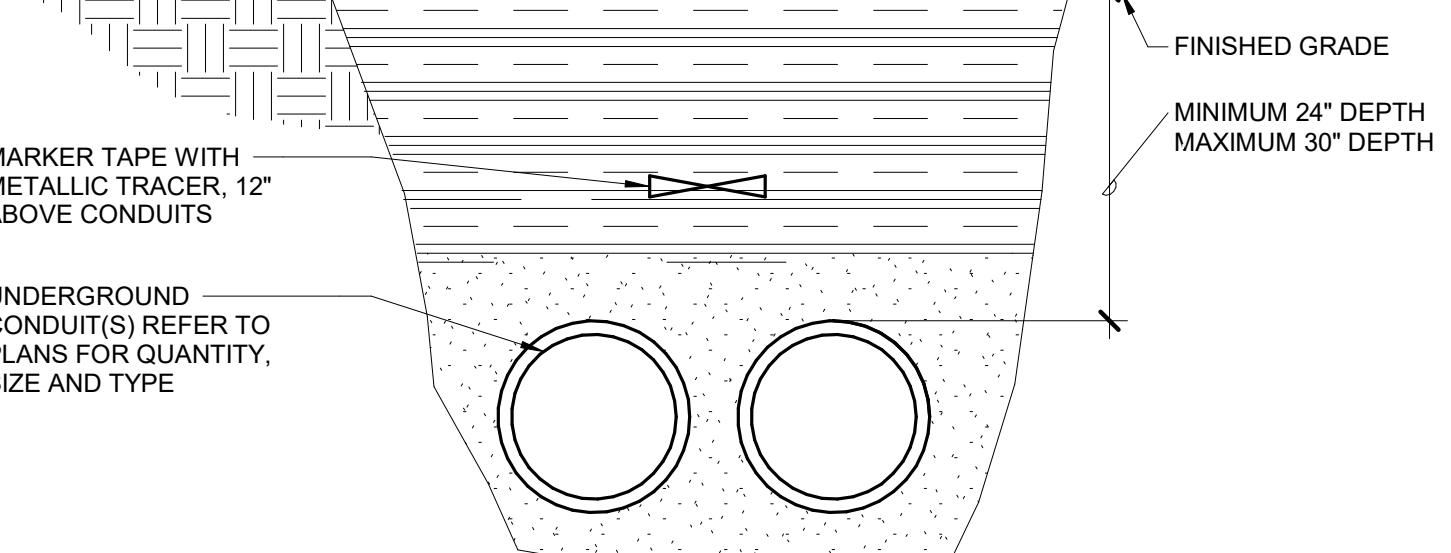
## NOTES:

1. ALL SYSTEM EVENTS SHALL BE LOGGED. SEE SPECIFICATIONS FOR MORE INFORMATION AND DESCRIPTIONS OF SEQUENCES OF OPERATION.



### 4 FIRE ALARM RISER

NO SCALE

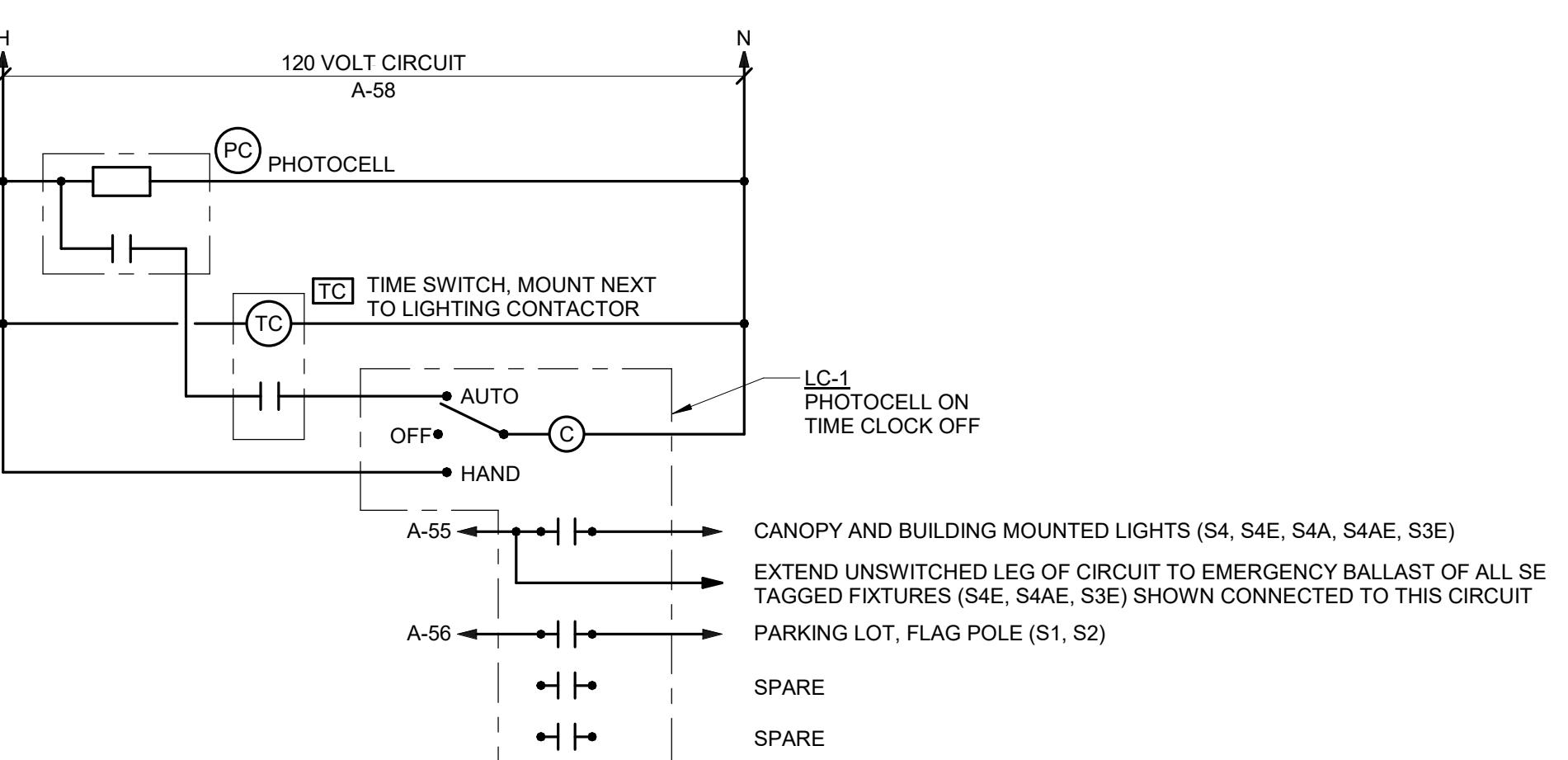


### 5 UNDERGROUND CONDUIT DETAIL

NO SCALE

## NOTES:

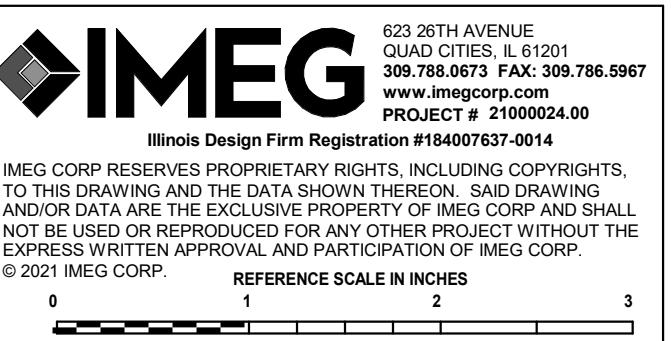
1. INSTALL 200 LB TENSILE STRENGTH PULL ROPE IN ALL EMPTY CONDUITS.
2. TRENCHING AND BACKFILL ACCORDING TO SPECIFICATION SECTION 26 05 00.



### 6 EXTERIOR LIGHTING CONTROL DETAIL

NO SCALE

**E300**



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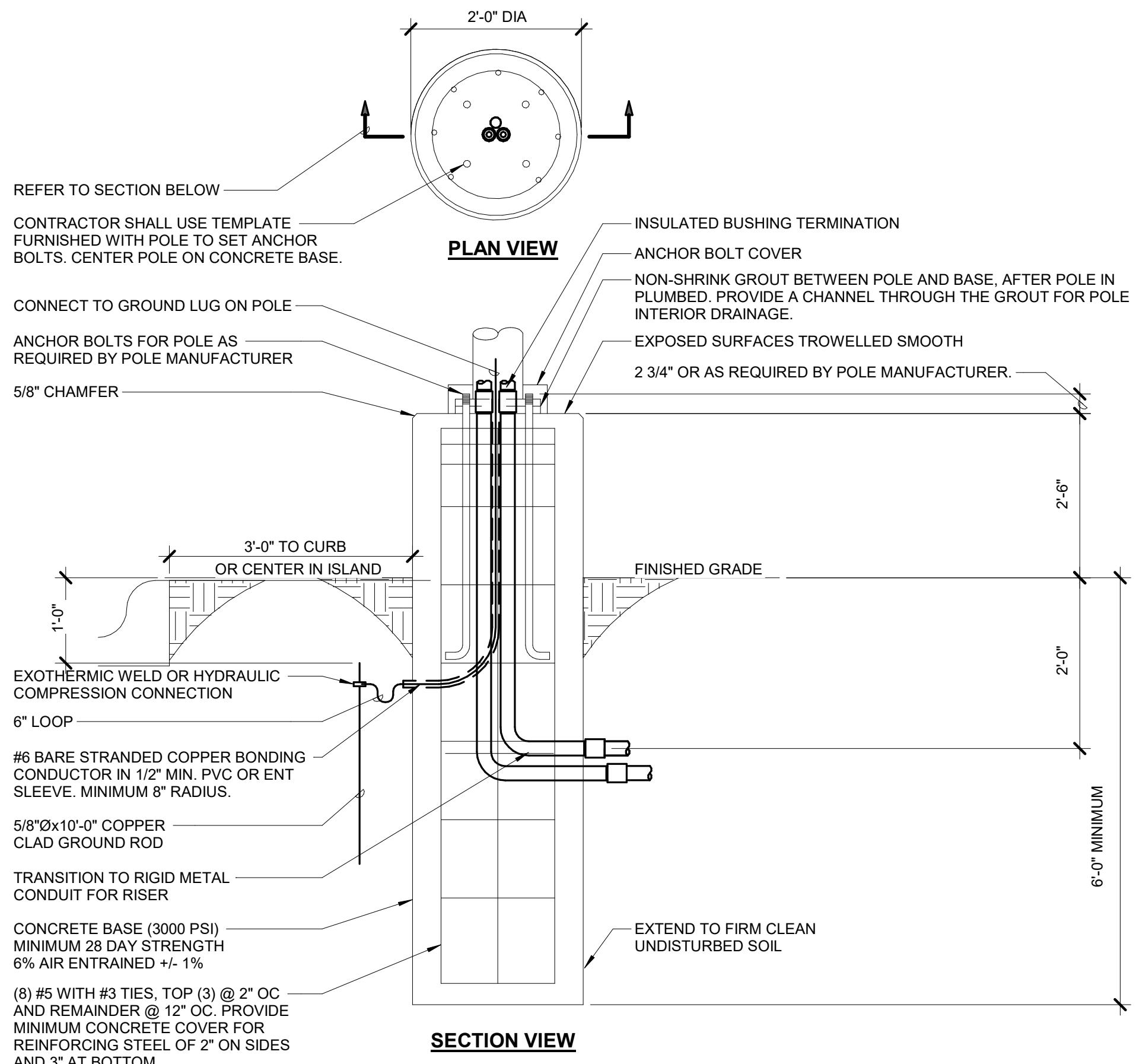
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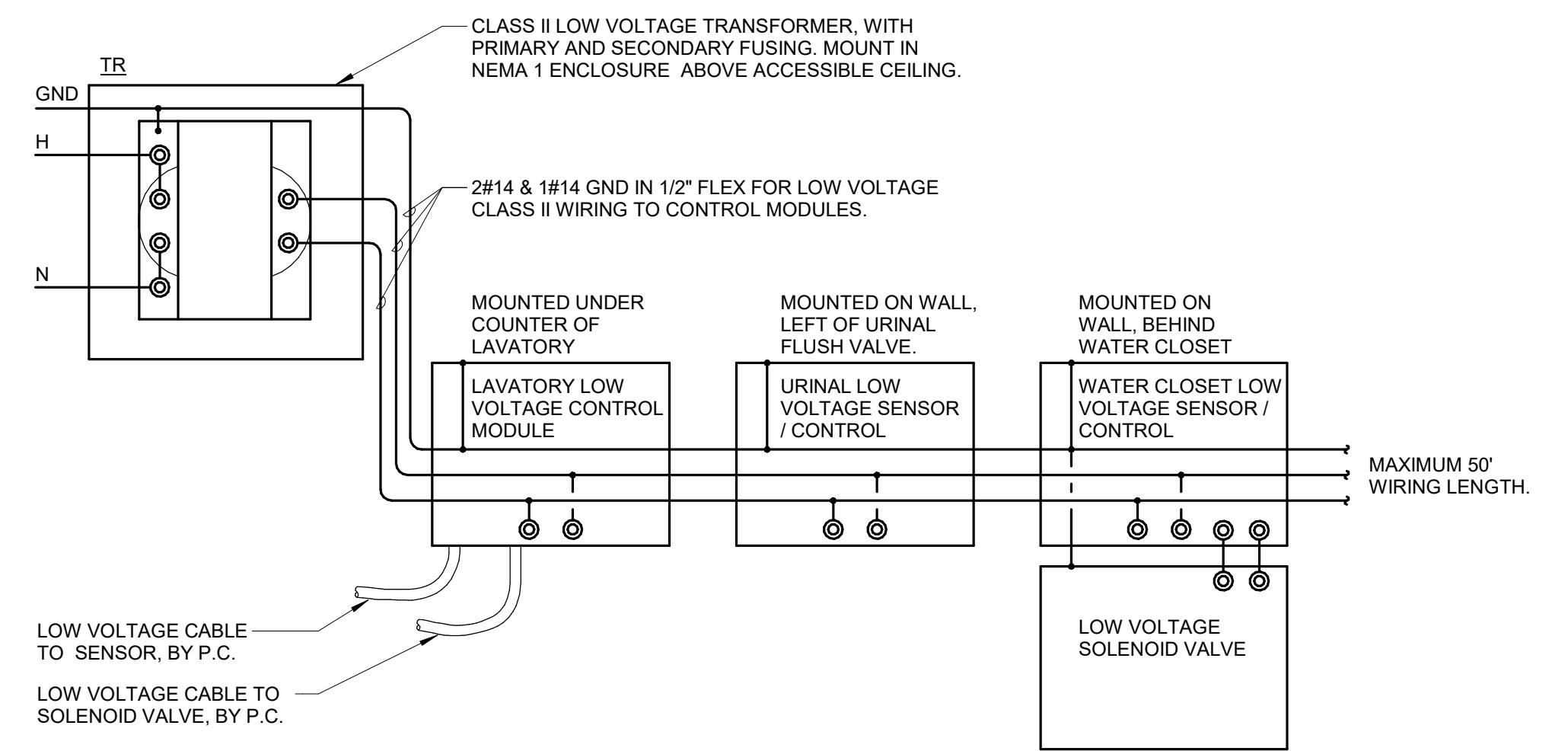
### 1 EXTENDED POLE BASE DETAIL

NO SCALE

CONDUIT INSTALLATION SCHEDULE				
INSTALLATION TYPE	RMC	EMT	PVC COATED RMC	PVC
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.	X			
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.	X			
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.	X			
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)	X			
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)	X			
FINISHED SPACES / CONCEALED	X			
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X			
CORROSIVE LOCATIONS		X		
ELEVATED CONCRETE SLABS (ABOVE GRADE)	X		X	
INTERIOR LOCATIONS: CONCEALED		X		
INTERIOR LOCATIONS: EXPOSED		X		
INTERIOR LOCATIONS: EXISTING WALLS AND EXPOSED INSTALLATION (FINISHED SPACES)	X			
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)				
WITHIN 5' FROM THE PERIMETER OF THE BUILDING	X		X	
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION:	X			
UNDERGROUND SITE CONDUITS:				
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X			
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X

### 2 CONDUIT INSTALLATION SCHEDULE

NO SCALE



FIRE ALARM PRE-RECORDED MESSAGE SCHEDULE			
ALARM TYPE	NAC AREA	PRECEDING TONE	MESSAGE
FIRE ALARM	SINGLE CHANNEL-ALL AREAS	THREE CHIMES	MAY I HAVE YOUR ATTENTION PLEASE? A FIRE EMERGENCY HAS BEEN REPORTED IN THE BUILDING. PROCEED CALMLY TO THE NEAREST EXIT AND LEAVE THE BUILDING IMMEDIATELY.
TEST	ALL AREAS	ONE CHIME	"MAY I HAVE YOUR ATTENTION PLEASE? MAY I HAVE YOUR ATTENTION PLEASE? THIS IS A TEST OF THE BUILDING EMERGENCY ALARM SYSTEM. THIS IS ONLY A TEST."
ALL CLEAR	ALL AREAS	ONE CHIME	"MAY I HAVE YOUR ATTENTION PLEASE? MAY I HAVE YOUR ATTENTION PLEASE? THE REPORTED EMERGENCY HAS BEEN INVESTIGATED AND NORMAL CONDITIONS HAVE BEEN RESTORED. YOU MAY RETURN TO ALL AREAS OF THE BUILDING."
SEVERE WEATHER	ALL AREAS	WAIL	"MAY I HAVE YOUR ATTENTION PLEASE? MAY I HAVE YOUR ATTENTION PLEASE? A SEVERE WEATHER WARNING HAS BEEN RECEIVED. PLEASE WALK TO THE NEAREST DESIGNATED SAFE AREA. STAY AWAY FROM WINDOWS AND GLASS."

### 3 FIRE ALARM PRE-RECORDED MESSAGE TABLE

NO SCALE

### 4 ELECTRONIC SENSOR WIRING

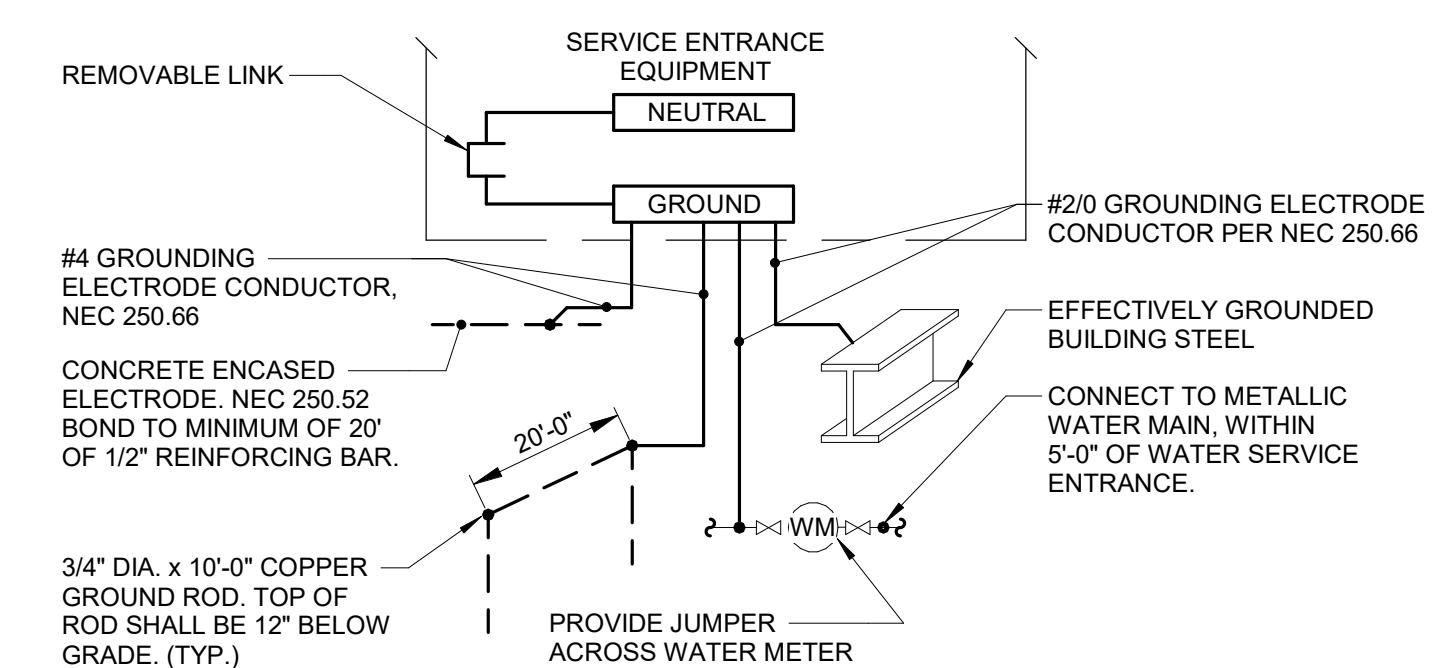
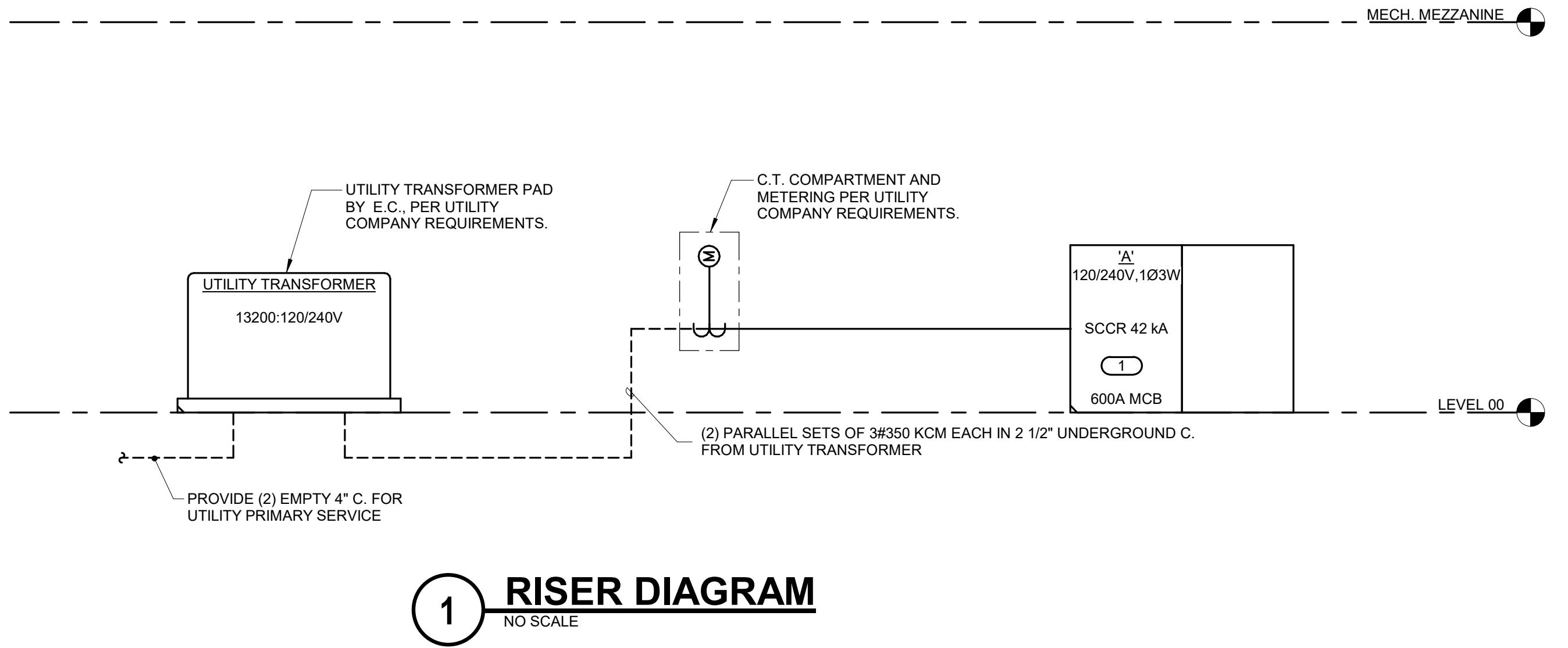
NO SCALE

- NOTES:
1. PROVIDE DOUBLE GANG BACKBOXES AND PLASTER RINGS AT LOCATIONS COORDINATED WITH PLUMBING CONTRACTOR (P.C.)
  2. E.C. SHALL FIELD VERIFY EXACT SENSOR LOCATION WITH P.C. PRIOR TO ROUGH-IN.

DRAWN BY SEJCHI  
CHECKED BY ROBMUR

ELECTRICAL DETAILS

**E301**



### ELECTRICAL - RISER DIAGRAM NOTES:

- THE RISER DIAGRAM IS INTENDED TO CONVEY THE COMPONENTS OF THE ELECTRICAL DISTRIBUTION SYSTEM. REFER TO ELECTRICAL DRAWINGS, DETAILS, DISTRIBUTION PANEL / EQUIPMENT / EQUIPMENT CONNECTION SCHEDULES, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SHORT CIRCUIT CURRENT RATINGS (SCCR) FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUSS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
- THE BASIS OF DESIGN: THE CONTRACTOR SHALL BE RESPONSIBLE FOR DERATING AND SIZING CONDUCTORS AND CONDUITS TO EQUAL OR EXCEED AMPACITY OF THE BASIS OF DESIGN CIRCUITS WHEN ALTERNATIVE METHODS OR MATERIALS OTHER THAN THE BASIS OF DESIGN ARE APPLIED.
  - FEEDER CIRCUITS UNLESS OTHERWISE NOTED
  - FEEDER CHARACTERISTICS, CURRENT CARRYING CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 25 05 13 WIRE AND CABLE FOR ADDITIONAL INFORMATION
  - GROUNDING AND BONDING CONDUCTORS SHALL BE COPPER.
  - CONDUCTORS (MOTORS) COPPER
  - [BLANK] OR [CU] INDICATES COPPER CONDUCTOR
- PROVIDE GROUNDING ELECTRODE AND BONDING SYSTEM PER CODE REQUIREMENTS. PROVIDE THE FOLLOWING MINIMUM CONNECTIONS AND COMPONENTS. REFER TO SPECIFICATION SECTION 26 05 26 GROUNDED AND BONDING AND DETAILS WHEN APPLICABLE:
  - ELECTRICAL GROUND FIELD
  - CONCRETE-ENCASED GROUND
  - METALLIC WATER MAIN
  - BUILDING STEEL, EFFECTIVELY GROUNDED
- PROVIDE O.2 GEDNEY OR EQUAL GROUND BUSHING FOR ALL SERVICE AND FEEDER RACEWAYS BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
- CONDUCTORS AND GROUND SIZES ON THE LINE AND LOAD SIDES OF ALL DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
- REFER TO COVER SHEET FOR ADDITIONAL EQUIPMENT TAG INFORMATION (SPD#, M-#, ETC).
- REFER TO GROUNDED ELECTRODE SYSTEM AND BONDING DETAILS.
- CIRCUIT BREAKER CHARACTERISTICS AND ACCESSORIES:
  - [CB] INDICATES CIRCUIT BREAKER
  - 100% RATED INDICATES INSULATED CASE BREAKER RATED FOR FULL RATING OF CIRCUIT CAPACITY OF CIRCUIT BREAKER NAMEPLATE
- BRANCH PANEL KEY:
  - "G" = GROUND FAULT CIRCUIT INTERRUPT
  - "P" = PADLOCK HASP
  - "R" = RED HANDLE
  - "C" = THRU CONTACTOR
- ADDITIONAL ABBREVIATIONS:
  - GEC - GROUNDED ELECTRODE CONDUCTOR

SEAL

ISSUED FOR:

ISSUED FOR BID

11/03/23

REVISION FOR:  
NO. DESCRIPTION

DATE

ELECTRICAL DISTRIBUTION SCHEDULE														
ITEM	VOLTAGE	MAINS RATING / XFMR RATING	FEEDER			CONNECTED LOAD	ESTIMATED DEMAND LOAD	CONNECTED CURRENT	ESTIMATED DEMAND CURRENT	ESTIMATED ISC	SCCR	LEVEL	LOCATION	COMMENTS
			FROM	UPSTREAM OCPD OR TERMINATION	WIRE AND RACEWAY									
PANELBOARD(S)														
'A'	120/240V, 103W	600 A MCB	UTILITY TRANSFORMER	600 A	(2) PARALLEL SETS OF 3#350 KCM EACH IN 2 1/2" UNDERGROUND C.	83.15 kVA	79.12 kVA	346.4 A	329.7 A	0.40 kA	42 kA	LEVEL 01	STORAGE 118	

ELECTRICAL  
RISER DIAGRAM

**E400**

## LED LUMINAIRE SCHEDULE

(DESC) DOOR:	DISTRIBUTION:	BEAMWIDTH:	(L/L) LENS/LOUVER:	K19 - KSH19 .156" ACRYLIC M - MATTE DIFFUSE CLEAR N - NONE P - POLYCARBONATE R - HIGH IMPACT DR ACRYLIC SS - SEMI-SPECULAR CLEAR O - OTHER (SEE DESCRIPTION)
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	A - .125" ACRYLIC	
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	B - BAFFLE/LOUVER	
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	C - CLEAR ALZAK	
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	F - FROSTED ACRYLIC	
FINISH:		VWD - VERY WIDE	G - TEMPERED GLASS	
PAF - PAINT AFTER FABRICATION		WW - WALL WASH	K - KSH12 .125" ACRYLIC	
CFSA - COLOR-FINISH SELECTION BY ARCHITECT				[DESIGN SPECIFIC BLANKS]

(MTG) MOUNTING:	RE - RECESSED	(WATT) PER:	FIX - FIXTURE, FT - FOOT, LAMP
CL - CEILING SURFACE	SP - SUSPENDED	(TYPE) LED	RGB - COLOR CHANGING LED
CV - COVE	SU - SURFACE	LED - LIGHT EMITTING DIODE	RGBW - COLOR CHANGING + WHITE
FR - FLANGED RECESSED	UC - UNDER CABINET	TLED - TUBULAR LED LAMP	RGBA - COLOR CHANGING + AMBER
P - PERIMETER	WL - WALL	OLED - ORGANIC LED	RLED - RETROFIT LED
PL - POLE	O - OTHER (SEE DESCRIPTION)	DLED - DYNAMIC TUNABLE LED	WLED - WARM DIM LED

(TYPE) DRIVER:	0-10V - 0-10V DIMMING	EB - ELECTRONIC	HL - HIGH/LOW (100%/50%) STEP DIM	MV - MULTI-VOLTAGE ELECTRONIC
DALI - DIGITAL ADDRESSABLE	ELV - ELECTRONIC LOW VOLTAGE	LINE - LINE VOLTAGE DIMMING	REM - REMOTE	RE - REMOTE
DMX - DIGITAL MULTIPLEX	EM - EMERGENCY BATTERY	ML - MULTI-LEVEL SWITCHING	O - OTHER (SEE DESCRIPTION)	

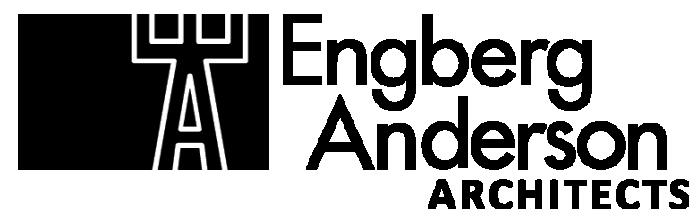
CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.  
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.  
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LIGHTING 26 51-19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.  
INTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.  
EXTERIOR CORRELATED COLOR TEMPERATURE 4000K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

IM	DESCRIPTION	L/L	MTG	DIMENSIONS			WATT		LED		DRIVER		APPROVED MANUFACTURER	
				L	W	H	DIA.	ANSI WATTS	PER	TYPE	QTY	ABSOLUTE LUMENS (MIN)		
F1	4' LED STRIP LIGHT, STEEL HOUSING, SNAP-ON DIFFUSE LENS, CFSA. PROVIDE ALL NECESSARY HARDWARE FOR THE PENDANT INSTALLATION. FOR PENDANT MOUNTING, REFER TO PLANS FOR MOUNTING HEIGHTS.	O	SP/DOL/WL	4'-0"	4"	3"		41 W	FIX	LED	1	5000	120 V	0-10V LITHONIA ZLD-L48-5000-FST-MVOLT-35K-B0CRI METALUX SNLED WILLIAMS 75LED COLUMBIA MPS435VWCWEDU DAYBRITE FLUXSTREAM FSS
F2	RECESSED LINEAR LED, EXTRUDED ALUMINUM HOUSING, SPOTLESS FROSTED ACRYLIC LENS, CFSA. REFER TO PLANS FOR TO/AT MOUNTING. THE FIXTURE SHALL CONTAIN ALL CIRCUITS INTERNALLY TO THE FIXTURE AS REQUIRED FOR ACHIEVING THE LIGHTING CONTROL SEQUENCES OF OPERATION INDICATED, INCLUDING REGULAR, NL, EM, AND DAYLIGHTING CONTROL.	O	RE	6'-0"	4 1/8"	3 15/16"		24 W	PER 6'	LED	1	500LM/FT	120 V	0-10V AXIS BEAMLED BBRLED-500-80-35-FL-S#-120-DP1 LUMENWERX VIAS LUX ILLUMINARE EOS4.0 LITECONTROL 4L
F2E	SAME AS F2 EXCEPT WITH 4' 0" FIXTURE LENGTH AND INTEGRAL BACK-UP EMERGENCY DRIVER AND BATTERY. EM DRIVER SHALL PROVIDE PURE SINEWAVE OUTPUT OF MINIMUM 150LM/FT FOR MINIMUM OF 90 MINUTE CONTINUOUS OPERATION.	O	RE	4'-0"	4 1/8"	3 15/16"		30 W	PER 6'	LED	1	500LM/FT	120 V	0-10V EM AXIS BEAMLED BBRLED-500-80-35-FL-S#-120-DP1 LUMENWERX VIAS LUX ILLUMINARE EOS4.0 LITECONTROL 4L
F3	6" OPEN RECESSED LED DOWNLIGHT, GALVANIZED STEEL HOUSING, DIFFUSE LENS, WIDE DISTRIBUTION, CFSA, INTEGRAL DRIVER, PROVIDE COMPATIBLE HOUSING.	O	RE		4 13/64"	6"		10 W	FIX	LED	1	1000	120 V	0-10V HALO HC6-10-D010-HM6-12-835-WD-C WILLIAMS 60R LED ALPHABET NU6 LITHONIA LDN6 LIGHTOLIER LYTE PROFILE 6RN
F3AE	SAME AS F3 EXCEPT WITH 2000 LUMEN PACKAGE AND INTEGRAL BACK-UP EMERGENCY DRIVER AND BATTERY. EM DRIVER SHALL PROVIDE PURE SINEWAVE OUTPUT OF MINIMUM 600 LUMEN FOR MINIMUM OF 90 MINUTE CONTINUOUS OPERATION.	O	RE		4 13/64"	6"		21 W	FIX	LED	1	2000	120 V	0-10V EM HALO HC6-20-D010-IEM7-HM6-12-835-WD-C WILLIAMS 60R LED ALPHABET NU6 LITHONIA LDN6 LIGHTOLIER LYTE PROFILE 6RN
F3E	SAME AS F3 EXCEPT WITH INTEGRAL BACK-UP EMERGENCY DRIVER AND BATTERY. EM DRIVER SHALL PROVIDE PURE SINEWAVE OUTPUT OF MINIMUM 300 LUMEN FOR MINIMUM OF 90 MINUTE CONTINUOUS OPERATION.	O	RE		4 13/64"	6"		10 W	FIX	LED	1	1000	120 V	0-10V EM HALO HC6-10-D010-IEM7-HM6-12-835-WD-C WILLIAMS 60R LED ALPHABET NU6 LITHONIA LDN6 LIGHTOLIER LYTE PROFILE 6RN
F4	6" WEFER LED RECESSED DOWNLIGHT, DIE CAST ALUMINUM FRAME, POWDER COAT PAINT FINISH, POLYCARBONATE LENS, PROVIDE WITH COMPATIBLE DRIVER, CFSA.	O	RE		1 7/64"	6"		14 W	FIX	LED	1	1110	120 V	0-10V LITHONIA WFG-LED-35K-35K-90CRI HPS-100W-120V-PH6 LIGHTOLIER FD-6R ELITE RUE75
F5	2X2 ARCHITECTURAL RECESSED DIRECT LED FIXTURE, EXTRUDED ACRYLIC DIFFUSER, VOLUMETRIC DISTRIBUTION.	O	RE	2'-0"	2'-0"	1 29/32"		43 W	FIX	LED	1	5128	120 V	0-10V LITHONIA STAK-2X2-5000LM-80CRI-35K-COL-MIN10-Z T-MVOLT-E10WLC METALUX 24CZ MERCURY LR25-24 COLUMBIA LCAT24
F5E	SAME AS F10 EXCEPT WITH INTEGRAL BACK-UP EMERGENCY DRIVER AND BATTERY. EM DRIVER SHALL PROVIDE PURE SINEWAVE OUTPUT OF MINIMUM 1400 LUMEN FOR MINIMUM OF 90 MINUTE CONTINUOUS OPERATION.	O	RE	2'-0"	2'-0"	1 29/32"		43 W	FIX	LED	1	5128	120 V	0-10V EM LITHONIA STAK-2X2-5000LM-80CRI-35K-COL-MIN10-Z T-MVOLT-E10WLC METALUX 24CZ MERCURY LR25-24 COLUMBIA LCAT24
F6	2X4 ARCHITECTURAL RECESSED DIRECT LED FIXTURE, EXTRUDED ACRYLIC DIFFUSER, VOLUMETRIC DISTRIBUTION	O	RE	4'-0"	2'-0"	1 29/32"		33 W	FIX	LED	1	4126	120 V	0-10V LITHONIA STAK-2X4-4000LM-80CRI-35K-COL-MIN10-Z T-MVOLT-E10WLC METALUX 24CZ MERCURY LR25-24 COLUMBIA LCAT24
F6E	SAME AS F6 EXCEPT WITH INTEGRAL BACK-UP EMERGENCY DRIVER AND BATTERY. EM DRIVER SHALL PROVIDE PURE SINEWAVE OUTPUT OF MINIMUM 1200 LUMEN FOR MINIMUM OF 90 MINUTE CONTINUOUS OPERATION.	O	RE	4'-0"	2'-0"	1 29/32"		33 W	FIX	LED	1	4126	120 V	0-10V EM LITHONIA STAK-2X4-4000LM-80CRI-35K-COL-MIN10-Z T-MVOLT-E10WLC METALUX 24CZ MERCURY LR25-24 COLUMBIA LCAT24
F7	WALL MOUNT LED VANITY LIGHT, EXTRUDED ACRYLIC DIFFUSER, CFSA. MOUNT AT 7' 0" AFF.	O	WL	2'-1"	2 13/16"	4 7/16"		27 W	FIX	LED	1	1800	120 V	0-10V LITHONIA FMVCLSL-24IN-MVOLT-35K-90CRI-M6 MODERN FORMS SABRE DAL'S LEDVAN001-CC-24
F8	2' UNDERCABINET LED LIGHT, .080" THICK DIFFUSE MATTE ACRYLIC, POLYESTER POWDER COAT FINISH. PROVIDE HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION. CFSA.	O	UC	2'-0"	4 7/8"	1"		11 W	FIX	LED	1	1857	120 V	EB H.E. WILLIAMS 1SF-2412-835-AF12125-DRV-120 VISUAL 1EL FAIL-SAFE UCF KENALL ACU LED AIREY-THOMPSON 13L ORCA EU-LED ELITE ES-LED CORE ULC VISCOR LTD
S1	SINGLE HEAD SITE LED LUMINAIRE, ALUMINUM DIE-CAST HOUSING GASKETED, TYPE 3 DISTRIBUTION, CFSA. LISTED WET LOCATION. SQUARE STRAIGHT STEEL POLE WITH INTERNAL VIBRATION DAMPER, ANCHOR BASE.	O	PL @ 20'	2 1/2" 19/64" 13/64"	1 1/3" 5 1/2"			137 W	FIX	LED	1	13834 4000K	120 V	EB GARDCO (PUREFORM) P26-48L-700-NW-G2-AR-3-120 LITHONIA DSX1 BEACON VPS
S2	FLAG SPOT LIGHT, NARROW FLOOD DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, CLEAR TEMPERED GLASS LENS, FULLY GASKETED, UL LISTED FOR WET LOCATION. CFSA. PROVIDE ALL NECESSARY MOUNTING HARDWARE AS REQUIRED FOR GROUND SURFACE INSTALLATION. FIELD ADJUST THE AIMING OF FIXTURE TO HAVE MAXIMUM THROW OF FIXTURE ON FLAG POLE.	O	SU	1 1/3" 3/4"	8 1/8"	7 3/4"		36 W	FIX	LED	1	2979 4000K	120 V	EB LSI XFLM-NF-LED-28-HO-NW-UNV/BKA-XFLM-S MC LITHONIA LIGHTING DSX2-LED VISIONAIRE LIGHTING VSF-1 AMERLUX LIGHTING FL2 NLS NVF KIM KFL1
S3E	EXTERIOR LED WALL PACK, DIE-CAST ALUMINUM HOUSING, ACRYLIC LENS, TYPE 4 DISTRIBUTION, CFSA, WITH INTEGRAL BACK-UP EMERGENCY DRIVER AND BATTERY. EM DRIVER SHALL PROVIDE PURE SINEWAVE OUTPUT OF MINIMUM 700 LUMEN FOR MINIMUM OF 90 MINUTE CONTINUOUS OPERATION. WET LOCATION. REFER TO PLANS FOR MOUNTING HEIGHTS.	G	WL	1 1/3" 37/64" 21/32"	1 1/3" 5 1/8"			21 W	FIX	LED	1	2377 4000K	120 V	0-10V EM GARDCO (PUREFORM) PWS-196L-450-NW-G2-4-EBP-UNV LITHONIA DSX1 LITHONIA ARC2 LED BEACON GEOPAK TRP1
S4	6" OPEN RECESSED LED DOWNLIGHT, GALVANIZED STEEL HOUSING, DIFFUSE LENS, WIDE DISTRIBUTION, CFSA, INTEGRAL DRIVER, PROVIDE COMPATIBLE HOUSING, DAMP LISTED.	O	RE		4 13/32"	6"		21 W	FIX	LED	1	2000	120 V	EB HALO HC6-20-D010-HM6-12-835-WD-C WILLIAMS 60R LED ALPHABET NU6 LITHONIA LDN6 LIGHTOLIER LYTE PROFILE 6RN PRESCOLITE LTR
S4A	SAME AS S4 EXCEPT PROVIDE WITH APPROPRIATE SLOPED CEILING ADAPTER.	O	RE		4 13/32"	6"		21 W	FIX	LED	1	2000	120 V	EB HALO HC6-20-D010-HSA6-HM6-12-835-WD-C WILLIAMS 60R LED ALPHABET NU6 LITHONIA LDN6 LIGHTOLIER LYTE PROFILE 6RN PRESCOLITE LTR

IM	DESCRIPTION	L/L	MTG	DIMENSIONS			WATT		LED		DRIVER		APPROVED MANUFACTURER
				L	W	H	DIA.</th						



MILWAUKEE | MADISON | TUCSON | CHICAGO

## PANEL 'A'

**MOUNTING:** SURFACE  
**ENCLOSURE:** NEMA PB 1  
**FED FROM:** 600 A/2P @ UTILITY TRANSFORMER  
**LOCATION:** STORAGE 118

# **SOLID NEUTRAL GROUND BUS**

**MAIN:** 600 A MCB  
**OLTS:** 120/240 Single  
**ASE:** 1  
**WIRE:** 3  
**CCR:** 42 kA  
**ISG:** 0.10 LA

**NOTES:** PANEL IS DESIGNED TO BE TWO SECTIONS, HOWEVER EC TO PROVIDE AS MANY SECTIONS AS NEEDED TO ACHIEVE THE NUMBER OF BREAKER SPACES INDICATED.

KEY	CKT NO.	LOAD DESCRIPTION	OCPD			WIRE SIZE			VD%	A		B		WIRE SIZE			OCPD			LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G				VD%		G	N	H	P	AMPS					
	A-1	SPD-1	30 A	2	10	10	10	0.28	0	0.72			1.44	12	12	12	1	20 A	Receptacles	A-2		
--	A-3	--	--	--	--	--	--	--			0	0.9	2.24	12	12	12	1	20 A	Receptacles	A-4		
	A-5	Receptacles	20 A	1	12	12	12	2.37	0.9	0.5			1.2	12	12	12	1	20 A	Power - FUTURE PROJECTOR	A-6		
	A-7	HVAC Heating Only - CAB-1	40 A	2	8	8	10	1.3			3.75	1.13	2	12	12	12	1	20 A	Power - EWC-1	A-8	*G	
--	A-9	--	--	--	--	--	--	--	3.75	0.97			0.73	12	12	12	2	15 A	HVAC - ERV-1	A-10		
	A-11	Motor - WH-1	50 A	2	6	6	10	0.29			4.5	0.97	--	--	--	--	--	--	--	A-12	--	
--	A-13	--	--	--	--	--	--	--	4.5	0.72			1.6	12	12	12	1	20 A	Receptacles - FB-1	A-14		
	A-15	Power - L-1	20 A	1	12	12	12	0.68			0.8	1.08	1.94	10	10	10	1	20 A	Receptacles - FB-3	A-16		
	A-17	Receptacles	20 A	1	12	12	12	2.22	1.08	1			1.29	12	12	12	1	20 A	Power - Autodoors	A-18		
	A-19	Receptacles - FB-3	20 A	1	12	12	12	1.41			1.08	0.36	0.43	12	12	12	1	20 A	Receptacles	A-20		
	A-21	Receptacles & FB-1	20 A	1	12	12	12	0.94	0.72	1.08			2.08	12	12	12	1	20 A	Receptacles	A-22		
	A-23	Receptacles	20 A	1	12	12	12	2.62			0.72	1.08	2.21	12	12	12	1	20 A	Receptacles, FB-1 & FB-2	A-24		
*G	A-25	Receptacles - Refrig.	20 A	1	12	12	12	1.84	0.8	0.9			1.03	12	12	12	1	20 A	Receptacles	A-26		
	A-27	Receptacles	20 A	1	12	12	12	2.04			1	0.9	2.2	12	12	12	1	20 A	Receptacles	A-28		
	A-29	Receptacles - IT	20 A	1	12	12	12	0.21	0.5	0.5			0.28	12	12	12	1	20 A	Receptacles - IT	A-30		
	A-31	Receptacles - IT	30 A	2	10	10	10	0.07			0.5	0.5	0.24	12	12	12	1	20 A	Receptacles - IT	A-32		
--	A-33	--	--	--	--	--	--	--	0.5	0.67			0.63	12	12	12	1	15 A	Motor - EF-1	A-34		
	A-35	Receptacles & FB-2	20 A	1	10	10	10	1.84			0.9	2.89	0.24	10	8	8	2	35 A	Motor - UH-1	A-36		
	A-37	Receptacles	20 A	1	12	12	12	1.81	0.72	2.89			--	--	--	--	--	--	--	A-38	--	
	A-39	Receptacles	20 A	1	12	12	12	1.21			0.72	2.89	0.69	10	8	8	2	35 A	Motor - UH-2	A-40		
	A-41	HVAC - CU-1	40 A	2	8	8	10	0.45	3.48	2.89			--	--	--	--	--	--	--	A-42	--	
--	A-43	--	--	--	--	--	--	--			3.48	3.48	0.39	10	8	8	2	40 A	HVAC - CU-3	A-44		
	A-45	HVAC - CU-2	40 A	2	8	8	10	0.37	3.48	3.48			--	--	--	--	--	--	--	A-46	--	
--	A-47	--	--	--	--	--	--	--			3.48	1.48	2.37	12	12	12	1	20 A	HVAC - F-1	A-48		
	A-49	HVAC - F-2	20 A	1	12	12	12	2.21	1.48	1.48			2.53	12	12	12	1	20 A	HVAC - F-3	A-50		
	A-51	Lighting	20 A	1	12	12	12	2.72			0.63	0.63	1.8	12	12	12	1	20 A	Lighting	A-52		
	A-53	Lighting	20 A	1	12	12	12	2.2	0.6	1.07			2.94	10	10	10	1	20 A	Lighting	A-54		
*C	A-55	Lighting - Building lights	20 A	1	8	8	8	1.36			0.61	0.73	1.82	8	8	8	1	20 A	Lighting - Site	A-56	*C	
	A-57	Receptacles - WS-1	20 A	1	12	12	12	0.14	0.18	0.5			0.39	12	12	12	1	20 A	Lighting - LC-1	A-58		
*R	A-59	Other - FAP-1	20 A	1	12	12	12	0			0.5	0	--	--	--	--	1	20 A	SPARE	A-60	--	
--	A-61	SPARE	20 A	1	--	--	--	--	0	0			--	--	--	--	1	20 A	SPARE	A-62	--	
--	A-63	SPARE	20 A	1	--	--	--	--			0	0	--	--	--	--	1	20 A	SPARE	A-64	--	
--	A-65	SPARE	20 A	1	--	--	--	--	0	0			--	--	--	--	1	20 A	SPARE	A-66	--	
--	A-67	SPARE	20 A	1	--	--	--	--			0	0	--	--	--	--	1	20 A	SPARE	A-68	--	
--	A-69	SPARE	20 A	1	--	--	--	--	0	0			--	--	--	--	1	20 A	SPARE	A-70	--	
--	A-71	SPARE	20 A	1	--	--	--	--			0	0	--	--	--	--	1	20 A	SPARE	A-72	--	
--	A-73	SPARE	20 A	1	--	--	--	--	0	0			--	--	--	--	1	20 A	SPARE	A-74	--	
--	A-75	SPARE	20 A	1	--	--	--	--			0	0	--	--	--	--	1	20 A	SPARE	A-76	--	
--	A-77	SPARE	20 A	1	--	--	--	--	0	0			--	--	--	--	1	20 A	SPARE	A-78	--	
--	A-79	SPARE	20 A	1	--	--	--	--			0	0	--	--	--	--	1	20 A	SPARE	A-80	--	
--	A-81	SPARE	20 A	1	--	--	--	--	0	0			--	--	--	--	1	20 A	SPARE	A-82	--	
--	A-83	SPARE	20 A	1	--	--	--	--			0	0	--	--	--	--	1	20 A	SPARE	A-84	--	

## **IGHTING SEQUENCE OF OPERATION**

TES:  
## DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.  
[#] DENOTES LIGHTING CONTROL ZONE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL  
OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.  
= SWITCH DESIGNATION FOR LIGHTING CONTROL

LAN ID	LIGHTING SWITCHED
{LC1}	<p>Sequence: Switched lights are controlled in this space.</p> <p>ON: The lights turn on automatically using contactor via an outdoor photocell when insufficient daylight is available. If applicable in the space, the emergency luminaries (tagged 'SE' on the plans) shall turn on during the loss of normal power.</p> <p>OFF: The lights will turn off automatically using contactor via an outdoor photocell when sufficient daylight is available.</p> <p>NOTE: Refer to detail 6/E300 for Exterior Lighting control detail for more information.</p>
{LD1}	<p>Sequence: Dimmed lights are controlled in this space.</p> <p>ON: The lights turned on using the wall controller(s). If applicable in the space, the emergency luminaries (tagged 'SE' on the plans) shall turn on during the loss of normal power.</p> <p>ADJUST: The dimming luminaires are raised/lowered using the controller(s).</p> <p>OFF: The lights turn off manually using the wall controller(s). After the space has been vacant for 20 minutes, the lights will automatically turn off.</p>
{LD2}	<p>Sequence: Dimmed lights are controlled in this space.</p> <p>ON: The lights turned on using the wall controller(s) or upon occupancy. The undercabinet lights (if provided) are turn on/off using independent switch located near the lights. If applicable in the space, the emergency luminaries (tagged 'SE' on the plans) shall turn on during the loss of normal power.</p> <p>ADJUST: The dimming luminaires are raised/lowered using the controller(s).</p> <p>OFF: The lights turn off manually using the wall controller(s). After the space has been vacant for 20 minutes, the lights will automatically turn off.</p>
{LD3}	<p>Sequence: Dimmed and switched lights are controlled in this space.</p> <p>ON: The lights turned on using the wall controller(s) or upon occupancy in the highlighted zones on plans. If applicable in the space, the emergency luminaries (tagged 'SE' on the plans) shall turn on during the loss of normal power. If applicable in the space, luminaires that are tagged 'NL' shall remain on all the time.</p> <p>ADJUST: The dimming luminaires are raised/lowered using the controller(s). The day lighting zone luminaires tagged Z# (i.e. Z1), including lights that are also tagged 'NL', in the space on lighting plans will continuously adjust to the presence of daylight to maintain a minimum foot candle level per space requirements( i.e 35fc on the working desk at work place areas and 15fc on finished floor at common areas as shown on plans).</p> <p>OFF: After the space has been vacant for 20 minutes, the lights turn off automatically to 50% using the wall controller(s) during business hours. After business hours the lights turn off automatically to 100%.</p> <p>Restroom light: The switched lights in the Restroom areas turn on automatically upon occupancy when the space becomes occupied or manually by the wall controller in the highlighted zones on plans. The lights in the Restroom areas turn off by the wall controller or after the space has been vacant for 15 minutes, the lights will automatically turn off via occupancy sensor.</p> <p>Emergency Sequence: If applicable in the space, the emergency units, are to be tied to unswitched leg of normal circuit serving to that space, shall automatically turn on upon loss of normal power.</p>
{LS1}	<p>Sequence: Switched lights are controlled in this space.</p> <p>ON: The lights turn on using the wall controller(s)/switch(es). If applicable in the space, the emergency luminaries (tagged SE on the plans) shall turn on during the loss of normal power. If applicable in the space, luminaires that are tagged 'NL' remain on all the time.</p> <p>OFF: The lights turn off using the wall controller(s)/switch(es).</p> <p>Emergency Sequence: If applicable in the space, the emergency units, are to be tied to unswitched leg of normal circuit serving to that space, shall automatically turn on upon loss of normal power.</p>
{LS2}	<p>Sequence: Switched lights are controlled in this space.</p> <p>ON: The lights turn on using the wall controller(s)/switch(es).</p> <p>OFF: The lights turn off using the wall controller(s)/switch(es). After the space has been vacant for 20 minutes, the lights will automatically turn off.</p>
{LS3}	<p>Sequence: Switched lights are controlled in this space.</p> <p>ON: The lights turn on using the wall controller(s) or upon occupancy. If applicable in the space, the emergency luminaries (tagged SE on the plans) shall turn on during the loss of normal power. If applicable in the space, luminaires that are tagged 'NL' remain on all the time.</p> <p>OFF: The lights turn off using the wall controller(s). After the space has been vacant for 20 minutes, the lights will automatically turn off.</p> <p>Emergency Sequence: If applicable in the space, the emergency units, are to be tied to unswitched leg of normal circuit serving to that space, shall automatically turn on upon loss of normal power.</p>



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PROJECT NUMBER 182836

[REDACTED]

SEA

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ISSUED FOR

ISSUED FOR BID 11/03/23

#### **DISCONNECT AND STARTER SCHEDULE**

**NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.**

DISCONNECT TYPE:		ACCESSORIES & OPTIONS					
FU - FUSED		SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)				PF - PHASE LOSS PROTECTION (5 HP OR GREATER, 3 PHASE...)	
NF - NON-FUSED		*CT - CONTROL TRANSFORMER, FUSED 120V				TO - MELTING THERMAL OVERLOADS (1 PHASE)	
CB - CIRCUIT BREAKER		*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)				TS - 2 SPEED SELECTOR SWITCH IN DOOR	
		*HA - HAND-OFF-AUTO IN DOOR				GP - GREEN (OFF) PILOT LIGHT IN DOOR	
STARTER TYPE:		*RP - RED (RUN) PILOT LIGHT IN DOOR				FA - 4-CONVERTIBLE AUXILIARY CONTACTS	
TV - FULL VOLTAGE		*TA - TWO CONVERTIBLE AUXILIARY CONTACTS				EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.	
YD - WYE - DELTA		S/N - INSULATED NEUTRAL ASSEMBLY				SS - START-STOP PUSHBUTTON IN DOOR	
RE - REVERSING						HL - HANDLE PADLOCK HASP	
TW - 2 SPEED, 2 WINDING							
SW - 2 SPEED, 1 WINDING							
RV - REDUCED VOLTAGE AUTOXFMR							
SS - SOLID STATE							
MS - MANUAL STARTER							
MX - MANUAL SWITCH							
FS - FUSED SWITCH							

DRAWN BY SEJCHI  
CHECKED BY BORMIIR

# ELECTRICAL SCHEDULES

**E501**



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SEAL

ISSUED FOR:  
ISSUED FOR BID 11/03/23

REVISION FOR:  
NO. DESCRIPTION DATE

## TECHNOLOGY COVERSHEET

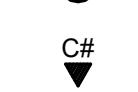
# T000

<b>VIEW KEY</b>	
NAME → 10'-0"	LEVEL NAME HEIGHT ABOVE PROJECT 0'-0"
INDICATES DIRECTION OF TRUE NORTH	① INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL
<b>VIEW NAME</b>	
PLAN OR DETAIL NUMBER	INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NAME	PLAN OR DETAIL SCALE
NORTH	1/8" = 1'-0"
SIM → M101	INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS SIM → T101 DETAL REFERRED TO BY SECTION CUT → T101
<b>LINE TYPE AND TAG KEY:</b>	
NEW WORK BY THIS CONTRACTOR (WIDE LINE)	NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)	NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)
EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)	EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)	EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)
HALFTONING DOES NOT MODIFY SCOPE.	
'TAG-E'	TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING
TAG-1	UNDERLINED TEXT INDICATES ADDITIONAL INFORMATION CAN BE FOUND ELSEWHERE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST
♦	INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

<b>FIRE / SMOKE BARRIER DESIGNATIONS</b>	
THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.	
RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS.	
1 HOUR FIRE PARTITION	---
2 HOUR BARRIER	----

<b>APPLICABLE CODES</b>	
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.	
BUILDING CODE:	IBC 2006 EDITION
FIRE CODE:	IFC 2006 EDITION
PLUMBING CODE:	ILLINOIS PLUMBING CODE CURRENT EDITION
MECHANICAL CODE:	IMC 2006 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2005 EDITION
LIFE SAFETY CODE:	NFPA 101 CURRENT EDITION
ENERGY CONSERVATION CODE:	IECC 2006 (ASHRAE 90.1 2004)
LOCAL BUILDING CODE:	CURRENT EDITION

<b>CONTACT PERSONS:</b>	
<b>DESCRIPTION:</b>	<b>PERSON:</b>
PROJECT MANAGER	MATT SNYDER
MECHANICAL	PETE COURTNEY
ELECTRICAL	MATT SNYDER
TECHNOLOGY	ALAN SWANSON

<b>TECHNOLOGY SYMBOL LIST</b>			
<b>SYMBOL:</b>	<b>EQUIPMENT LIST ABBREV.:</b>	<b>DESCRIPTION:</b>	<b>NOTE:</b>
C# 	N/A	ELECTRICAL FLOOR BOX WITH TECHNOLOGY	1., 2.
C# 	SC-IO-C	INFORMATION OUTLET (CEILING)	1.
C# 	SC-IO-W	INFORMATION OUTLET (WALL)	1.
DIAMETER ø C		CONDUIT	
→		CONDUIT DOWN	
○		CONDUIT UP OR UP/DOWN	
—		CONDUIT SLEEVE	
S		CONTINUATION	

<b>CONTRACTOR ABBREVIATION KEY</b>	
<b>ABBR:</b>	<b>DESCRIPTION:</b>
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

<b>TECHNOLOGY ABBREVIATION KEY</b>			
<b>ABBR:</b>	<b>DESCRIPTION:</b>		
AFF	ABOVE FINISHED FLOOR		
BFC	BELOW FINISHED CEILING		
C	CONDUIT		
J-BOX	JUNCTION BOX		
SIM	SIMILAR		
TYP	TYPICAL		
UNO	UNLESS NOTED OTHERWISE		
#	MOUNTING HEIGHT ABOVE FINISHED FLOOR		
TR-#	TELECOMMUNICATIONS ROOM		

<b>SUGGESTED MATRIX OF RESPONSIBILITY</b>				
ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	E.C.	E.C.	3. 4.
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	T.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7. 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	[E]T-SERIES	E.C.	E.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

<b>SUGGESTED MATRIX OF RESPONSIBILITY NOTES</b>			
1. ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.			
2. ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.			
3. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.			
4. REFER TO RISERS ON SHEET(S): T400.			

<b>TELECOM ROOM REFERENCES</b>			
TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER
TR-1	1/T202	T201	MECHANICAL 101

<b>TECHNOLOGY SHEET INDEX</b>			
T000	TECHNOLOGY COVERSHEET		
T201	MAIN & MEZZANINE LEVEL - TECHNOLOGY		
T202	ROOM LAYOUTS - TECHNOLOGY		
T300	TECHNOLOGY DETAILS		
T400	TECHNOLOGY RISERS		
T500	TECHNOLOGY SCHEDULES		
GRAND TOTAL: 6			

## TECHNOLOGY GENERAL NOTES:

- ##### INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION".
  - REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
- TECHNOLOGY MOUNTING SUBSCRIPT KEY:  
A MOUNT AT +45° TO CENTERLINE ABOVE COUNTER OR BACKSPLASH  
H MOUNT ORIENTED HORIZONTALLY  
L MOUNT IN CASEWORK  
M MOUNT IN MODULAR FURNITURE  
S MOUNT IN SURFACE RACEWAY
- A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

## TECHNOLOGY INSTALLATION NOTES:

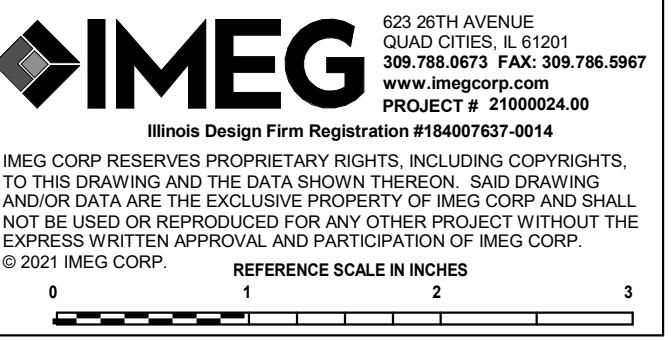
- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- ALL CONDUITS, CONDUIT CONCEALMENT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC., UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
- BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF

**SHEET NOTES:**

1. PROVIDE AND INSTALL SUPPORTS FOR CATEGORY 6 CABLE PER TIA/EIA STANDARDS.
2. ROUTE ALL LOW VOLTAGE STRUCTURE CABLING TO TR-1.

**KEYNOTES: #**

1. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR.
2. PROVIDE AND INSTALL (2) 4" CONDUITS UNDERGROUND TO PROPERTY LINE. PROVIDE AND INSTALL HANDHOLE AT PROPERTY LINE. CONDUITS FOR SERVICE PROVIDERS CABLING. REFER TO E001 FOR ADDITIONAL INFORMATION.
3. DATA CABLE FOR SECURITY GATE. COORDINATE CONDUIT ROUTING WITH SECURITY GATE CONTRACTOR. LOCATE IN MEDIA PANEL PROVIDED ON THE ELECTRICAL DRAWINGS.



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NO. DESCRIPTION

DRAWN BY KASGAJ  
CHECKED BY PETCOU

**MAIN &  
MEZZANINE LEVEL  
- TECHNOLOGY**



**2 MECHANICAL MEZZANINE - TECHNOLOGY**

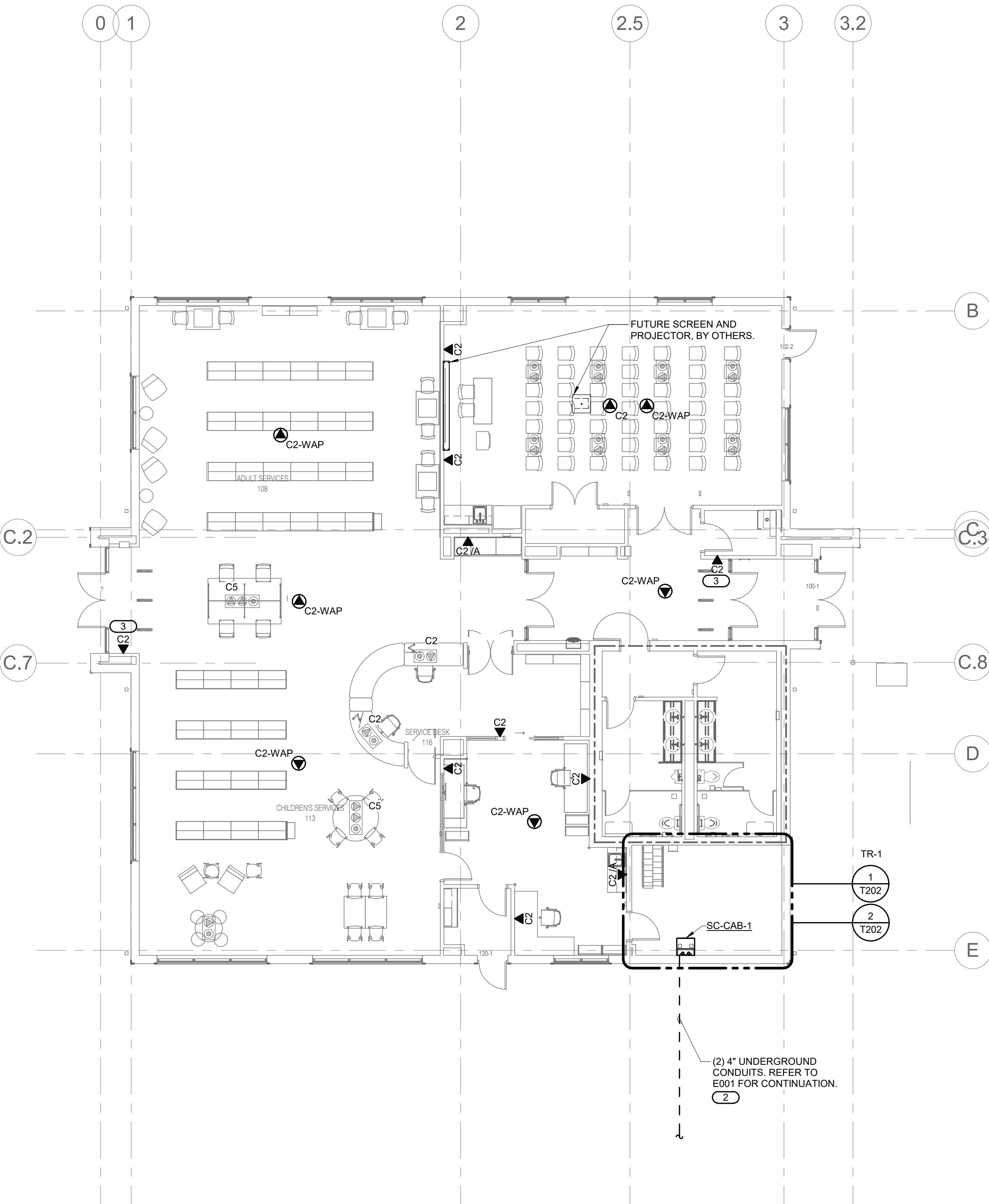
1/8" = 1'-0"

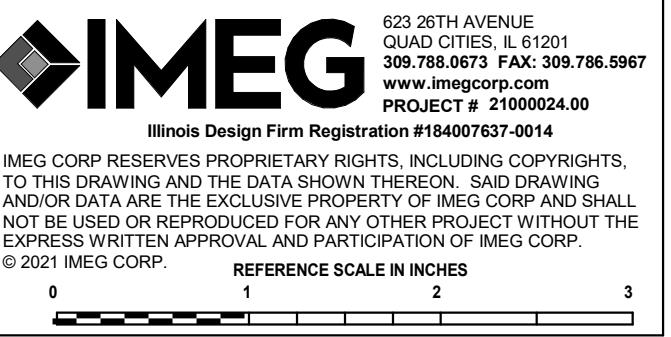
**1 LEVEL 1 - TECHNOLOGY**

1/8" = 1'-0"

NORTH

**T201**





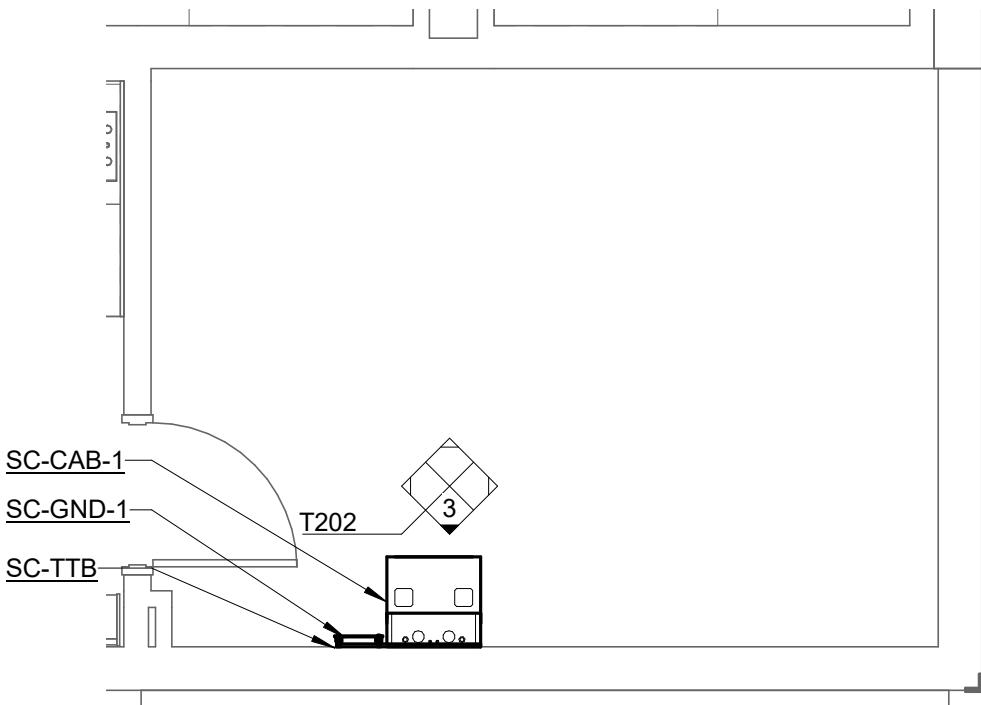
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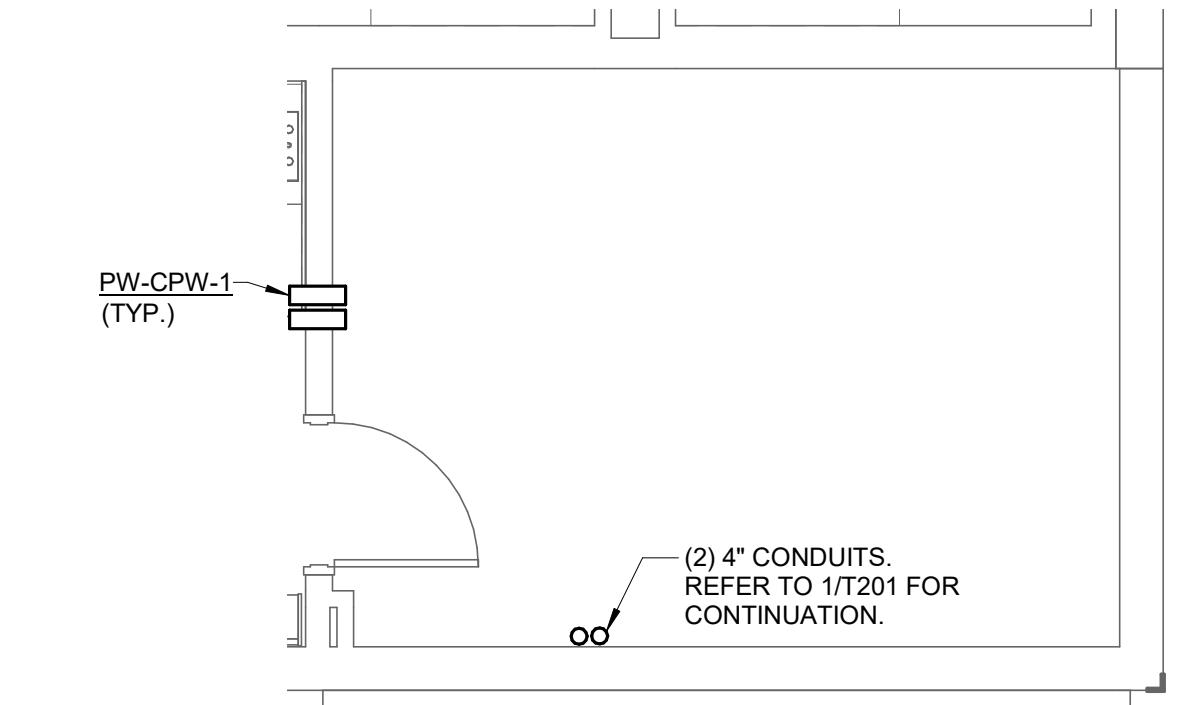


 **1 TECHNOLOGY ROOM LAYOUT - TR-1**

1/4" = 1'-0"

NOTES:

1. THE FIRE RATED TELEPHONE TERMINAL BOARD (SC-TTB) SHALL COVER THE WALLS IN THE TECHNOLOGY ROOM AS SHOWN ABOVE. SHOULD THE WALLS REQUIRE TO BE PAINTED, THE PAINT SHALL BE 'FIRE SAFE' PAINT. IF PAINTED THE FIRE RATED LABEL ON EACH BOARD SHALL NOT BE PAINTED. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. REFER TO 2/T202 FOR THE TECHNOLOGY ROOM PATHWAY LAYOUT.
3. REFER TO 1/T300 FOR THE BONDING BUS BAR DETAILS (SC-GND-1).

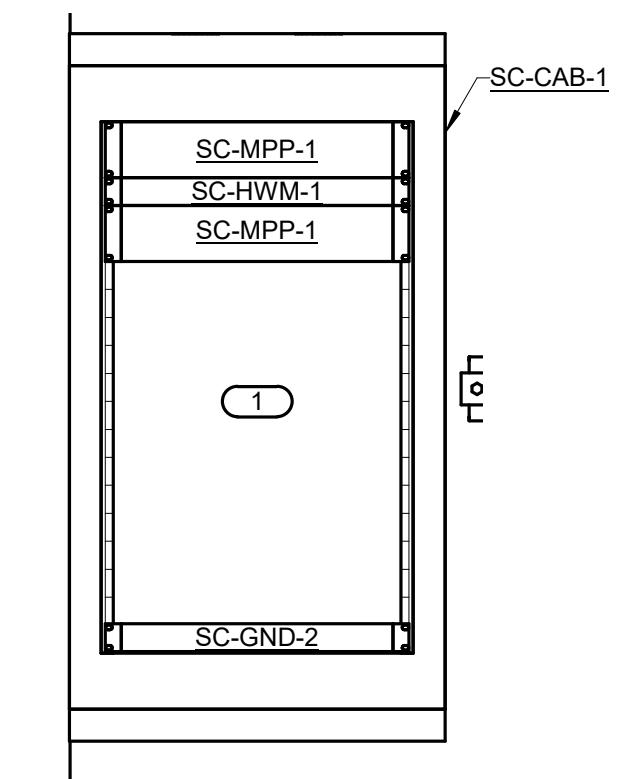


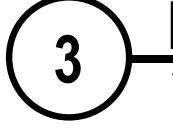
 **2 TECHNOLOGY ROOM PATHWAY LAYOUT - TR-1**

1/4" = 1'-0"

NOTES:

1. PROVIDE A RADIUS CONTROL MODULE FOR ALL FIRE RATED PATHWAY(S) (PW-CPW-1)
2. ALL CONDUITS ENTERING FROM THE LEVEL BELOW OR BELOW GRADE SHALL BE CUT DOWN BETWEEN 2"-4" AND A PLASTIC BUSHING INSTALLED ON THE END. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

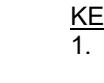


 **3 EQUIPMENT RACK ELEVATION - TR-1**

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED SPOT AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED (BY RACK UNITS) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE ENGINEER AND OWNER PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T500 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

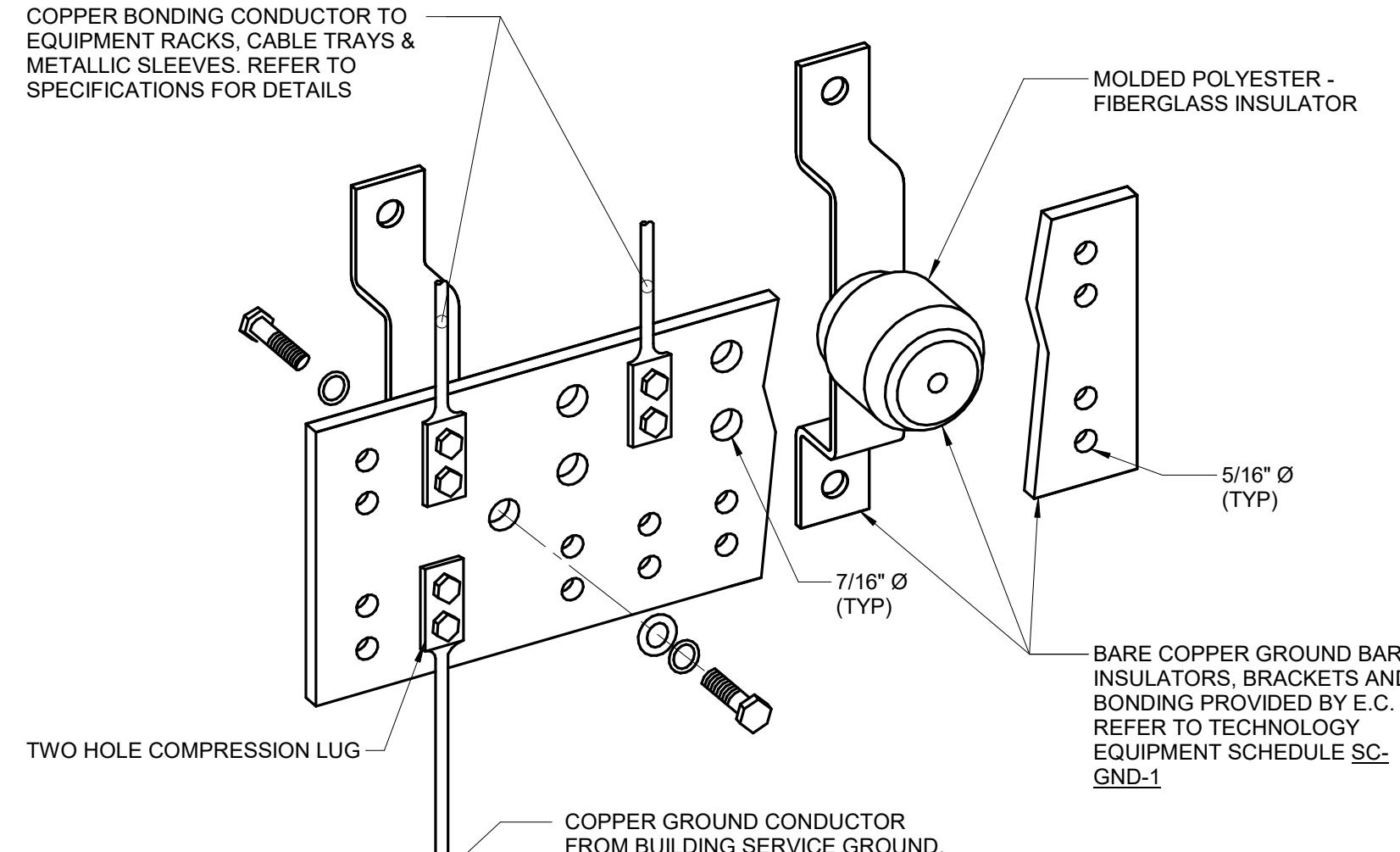
KEYNOTES:  #  
1. ALL EMPTY SPACES ARE FOR OWNER SUPPLIED EQUIPMENT (HUBS, SWITCHES, PATCH PANELS, ETC.) UNLESS OTHERWISE NOTED.

DRAWN BY KASGAJ  
CHECKED BY PETCOU

ROOM LAYOUTS -

TECHNOLOGY

**T202**

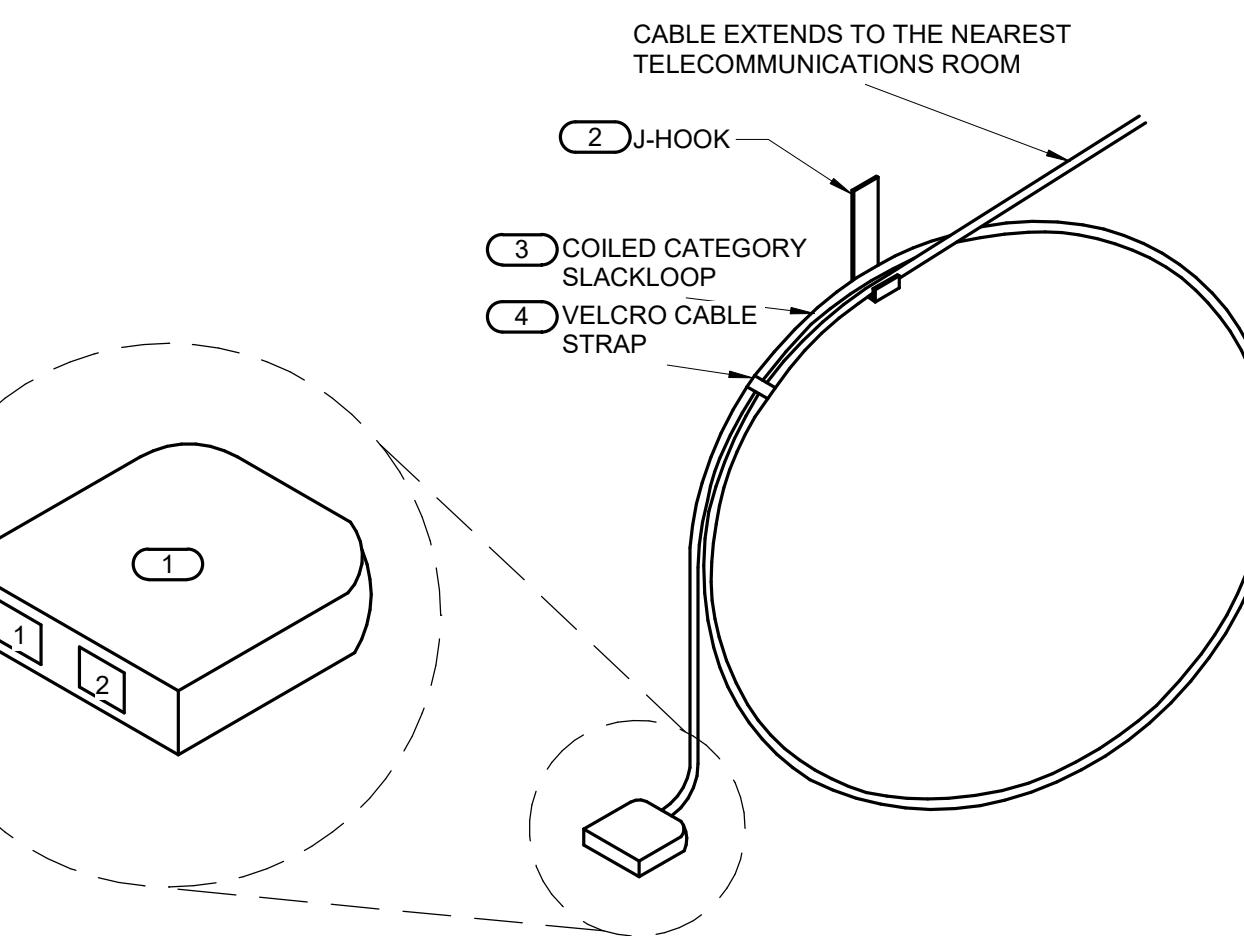


### 1 BONDING BUS BAR DETAIL

NO SCALE

NOTES:

1. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE SC-GND-1 FOR WIDTH REQUIREMENTS.
2. REFER TO T400 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.



### 2 ABOVE CEILING INFORMATION OUTLET DETAIL

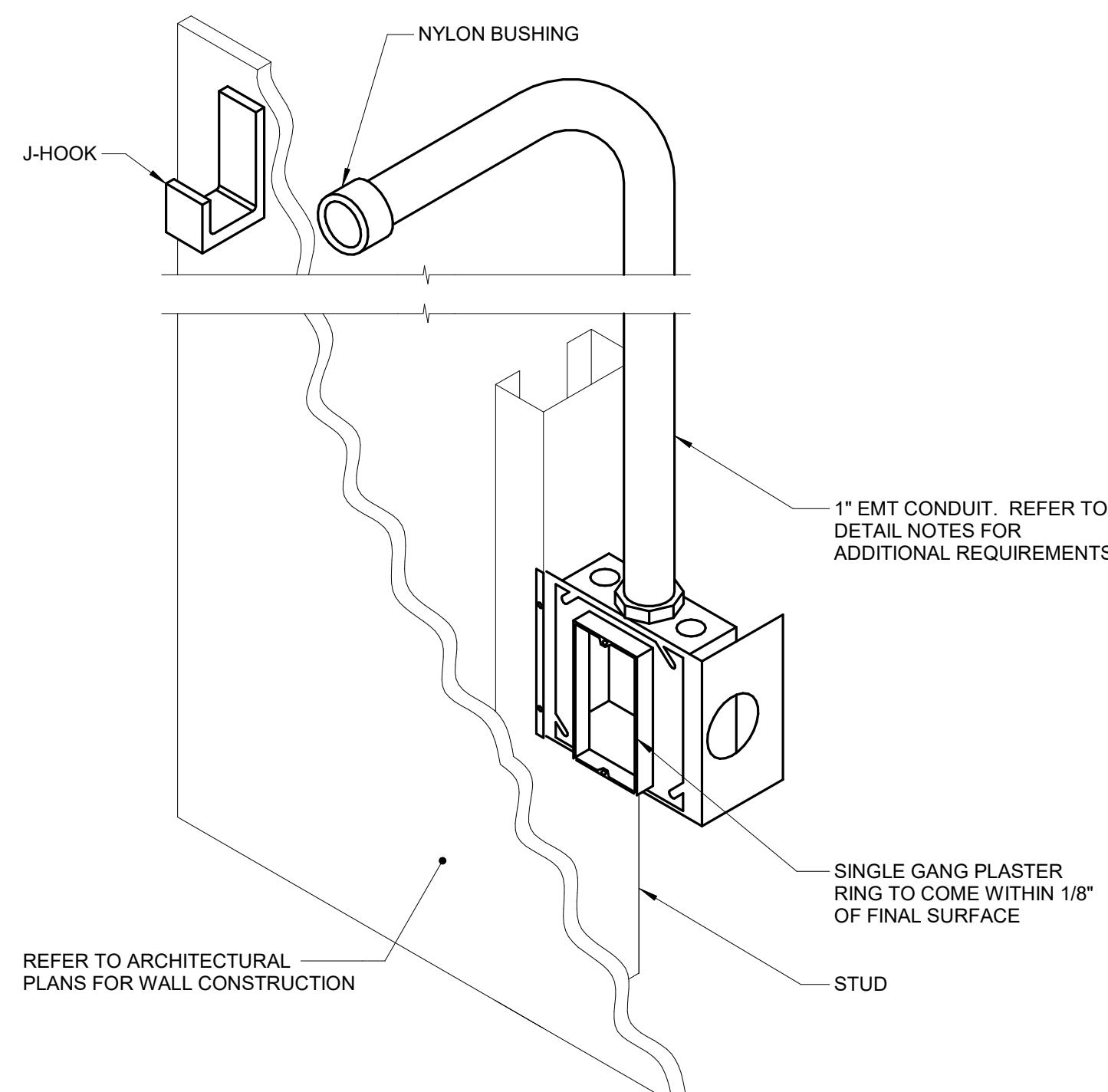
NO SCALE

NOTES:

1. THIS DIAGRAM MAY NOT REPRESENT THE QUANTITY OF CABLES TO EACH INFORMATION OUTLET JUNCTION BOX. REFER TO THE DRAWINGS AND THE INFORMATION OUTLET SCHEDULE ON T500 FOR ADDITIONAL INFORMATION.
2. ALL DEVICES ARE INSTALLED ABOVE THE CEILING UNLESS OTHERWISE NOTED.

KEYNOTES: #

1. 2-PORT PLUNUM RATED SURFACE MOUNT BOX. REFER TO THE INFORMATION OUTLET SCHEDULE ON T500 AND EQUIPMENT LIST ITEM SC-IO-C FOR ADDITIONAL INFORMATION. THE BOX WILL BE SUPPORTED BY THE J-HOOK AND SUSPENDED.
2. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.
3. REFER TO THE INFORMATION OUTLET SCHEDULE ON T500 FOR SLACK LOOP LENGTH. MAINTAIN THE MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE.
4. PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVER 6" ALONG THE SLACKLOOP. FOR SLACKLOOPS GREATER THAN 3' A MINIMUM OF 4 STRAPS WILL BE INSTALLED.



### 3 TECHNOLOGY ROUGH-IN MOUNTING DETAIL

NO SCALE

NOTES:

1. 1" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
2. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
3. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
4. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

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## TECHNOLOGY DETAILS

T300



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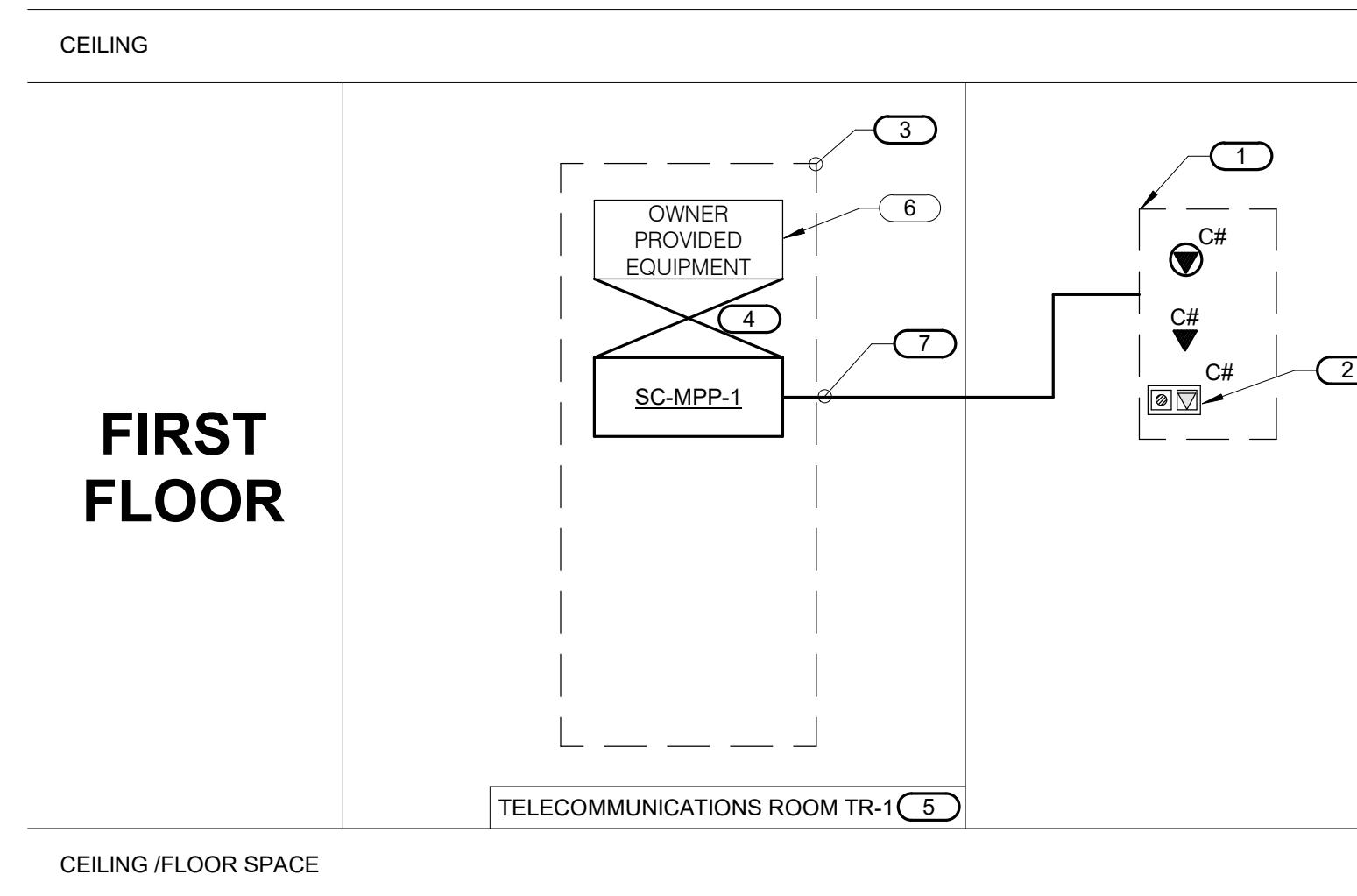
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## TECHNOLOGY RISERS

**T400**

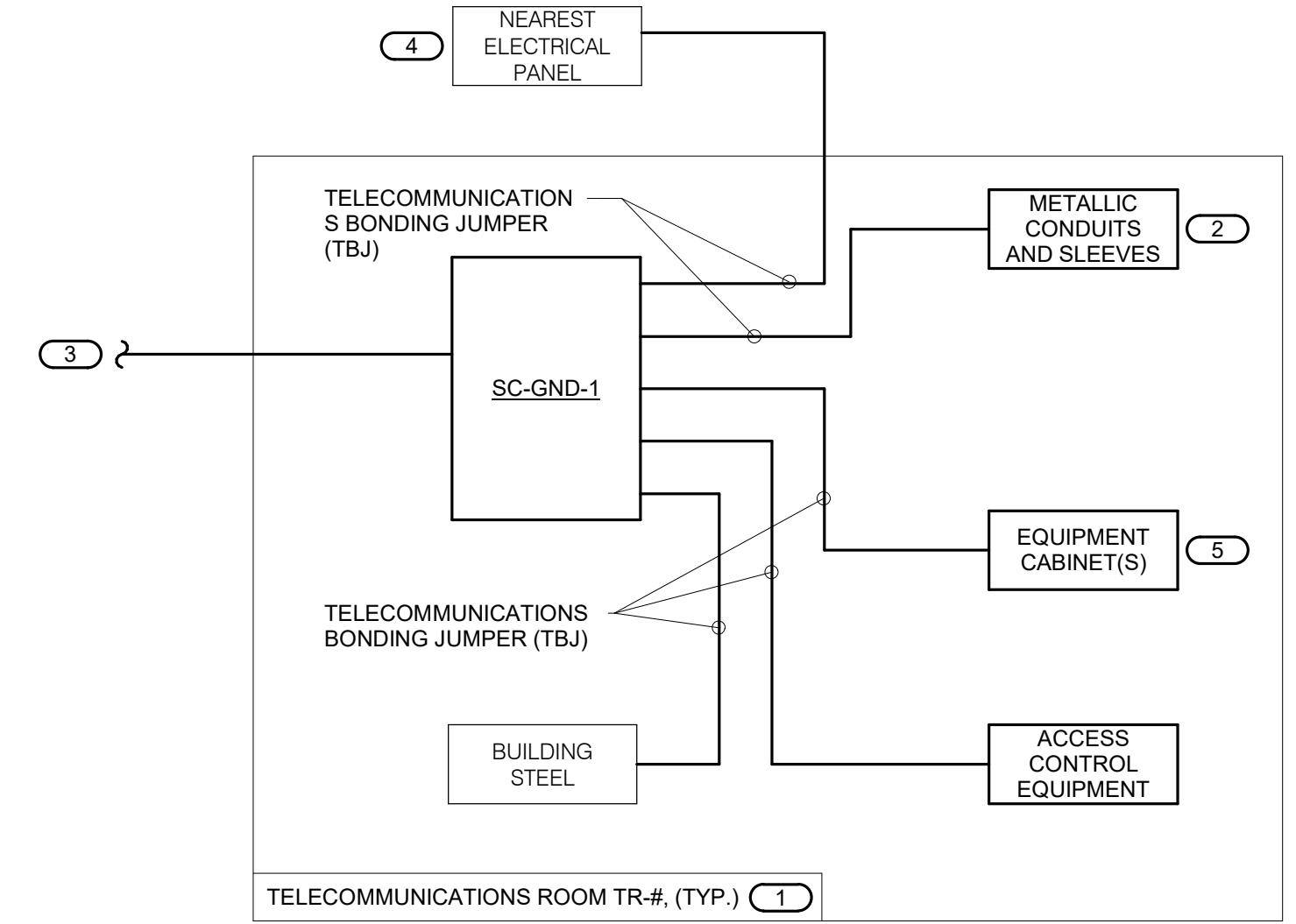


### 1 COPPER RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. REFER TO SPECIFICATION SECTION 27 15 00 FOR CABLE COLOR REQUIREMENTS.
4. KEYNOTES: #  
1. # INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON T500 FOR ADDITIONAL INFORMATION.
2. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX. REFER TO ELECTRICAL FLOOR PLANS AND ELECTRICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
3. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. RJ-45 TO RJ-45 CATEGORY 6 UTP PATCH CORDS. REFER TO SPECIFICATIONS FOR PATCH CORD REQUIREMENTS.
5. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
6. OWNER PROVIDED AND INSTALLED NETWORK SWITCHES.
7. 23 GAUGE, 4-PAIR CATEGORY 6, UNSHELDDED TWISTED PAIR CABLE. VERIFY COLOR REQUIREMENTS. REFER TO SPECIFICATIONS.



### 3 TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM

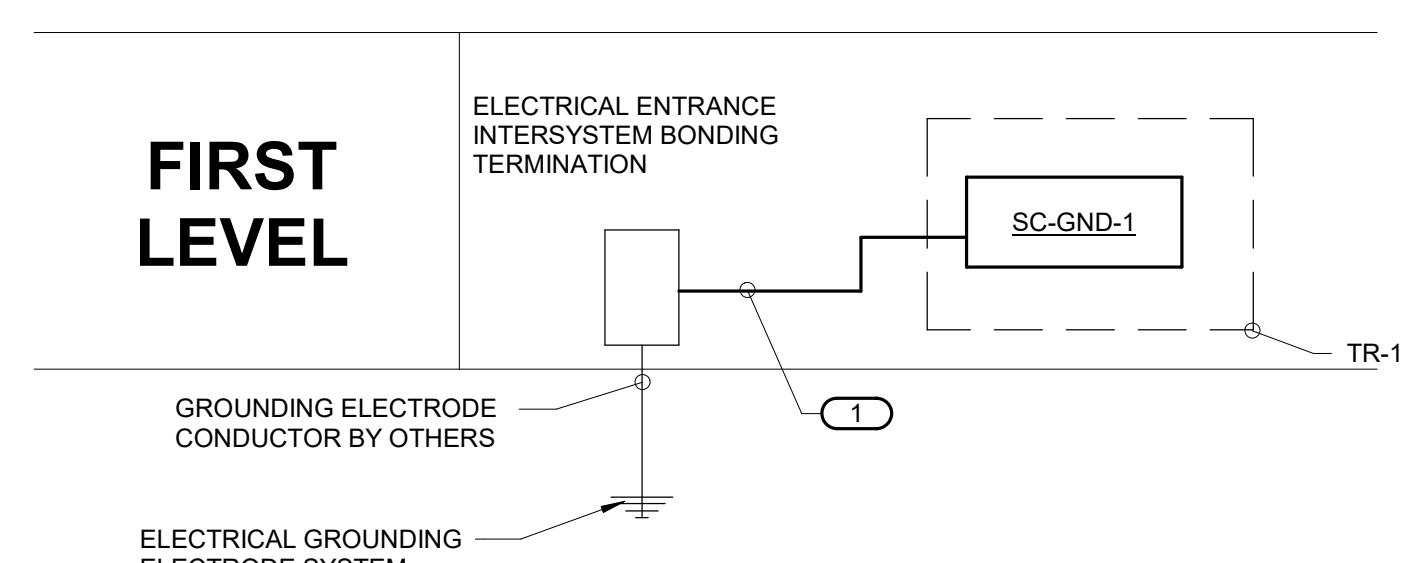
NO SCALE

NOTES:

1. THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS FLOW DIAGRAM IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG (PLUNUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
4. REFER TO 1/300 FOR BONDING BUS BAR DETAIL AND ADDITIONAL INFORMATION AND REQUIREMENTS FOR SC-GND-1.

KEYNOTES: #

1. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T000 FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION INFORMATION.
2. INCLUDES HORIZONTAL AND VERTICAL CONDUIT SLEEVES FOR TECHNOLOGY CABLING.
3. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO ELECTRICAL ENTRANCE INTERSYSTEM BONDING TERMINATION. REFER TO 4/T400 FOR TELECOMMUNICATIONS BONDING RISER DIAGRAM FOR CONTINUATION AND ADDITIONAL INFORMATION AND REQUIREMENTS.
4. REFER TO THE ELECTRICAL DRAWINGS FOR LOCATION.
5. PROVIDE SC-GND-2 RACK MOUNT TELECOMMUNICATIONS BONDING BUSBAR AT EACH EQUIPMENT RACK.



### 4 TECHNOLOGY BONDING RISER DIAGRAM

NO SCALE

NOTES:

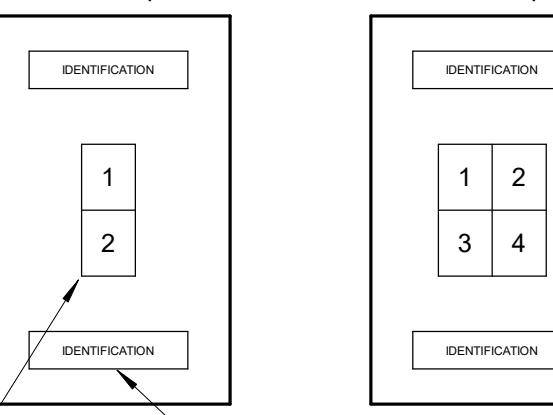
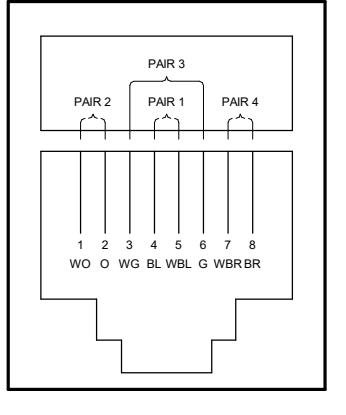
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG (PLUNUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
4. REFER TO 3/T400 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
5. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T000 FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION INFORMATION.

KEYNOTES: #

1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT). BCT SHALL BE THE SAME SIZE AS THE TBB OR LARGER. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING REQUIREMENTS.

CONDUCTOR LENGTH IN FEET	MINIMUM ACCEPTABLE SIZE - AWG
LESS THAN 13'	6
14' - 20'	4
21' - 26'	3
27' - 33'	2
34' - 41'	1
42' - 52'	1/0
53' - 66'	2/0
GREATER THAN 66'	3/0

TECHNOLOGY EQUIPMENT SCHEDULE		
THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.		
EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
PW-CPW-1	FIRE-RATED, HEAVY GAUGE GALVANIZED STEEL, RACEWAY LINED WITH INSTMESCENT MATERIAL, PAINTED SAFETY ORANGE 4" X 4" X 10 1/2" L, FULL KIT WITH WALL PLATES AND LABELS, FIELD-GANGABLE WITH MULTIPLES OF THE SAME PART.	STI EZDP44S2 OR APPROVED EQUAL
SC-CAB-1	WALL MOUNTED ENCLOSED CABINET, 36" X 22.6" W X 20"D, DOOR MOUNTED ACRYLIC SMOKE TINTED WINDOW, FRONT AND REAR SECTION KEYED SEPARATELY AND ALIKE, LOUVERED SIDES, 19" PANEL MOUNTING, UNIVERSAL MOUNTING RAILS, (4) KNOCKOUTS IN TOP AND BOTTOM, TWO-HINGE DESIGN FOR FRONT-TO-REAR ACCESS, 250LB LOAD CAPACITY, PROVIDES (19) 1.75" MOUNTING SPACES.	HUBBELL HSQ 36 CHATSWORTH MIDDLE ATLANTIC SIEMON
SC-GND-1	GROUNDS BUSBAR, WALL MOUNT, 4" H X 12" L X 1/4" D COPPER, ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. COPPER GROUND BAR IS 1/4" THICK AND STAND OFF 2.75" FROM WALL. THE 12" BUSBAR PROVIDES CONNECTION FOR EIGHTEEN (18)-HOLE COMPRESSION LUGS RESPECTIVELY WITH 5/8" OR 1" CENTERS. ANSI/TIA-607 AND BICSI COMPLIANT. UL LISTED. REFER TO GROUND BAR DETAIL ON 1/T300 AND SPECIFICATION SECTION 27 11 00 FOR ADDITIONAL INFORMATION.	CHATSWORTH 40153-012 PANDUIT ERICO HARGER
SC-GND-2	RACK MOUNTED GROUND BAR KIT 19". ANSI/TIA-607 AND BICSI COMPLIANT. UL LISTED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.	CHATSWORTH PRODUCTS 10610-019 PANDUIT
SC-HWM-1	SINGLE RACK UNIT HORIZONTAL WIRE MANAGEMENT WITH COVER, PLASTIC MOLDED WITH PASS THROUGH HOLES, INTEGRAL BEND RADIUS CONTROL AND FINGERS WITH ROUND EDGES. HINGED COVER FITS 19" EIA RACK.	PANDUIT WMPLFSE OR APPROVED EQUAL
SC-IO-C	ABOVE CEILING INFORMATION OUTLET, 2-PORT PLENUM RATED SURFACE MOUNTED ENCLOSURE INTENDED TO PROVIDE CONNECTIVITY FOR FUTURE WIRELESS ACCESS POINT AND OTHER CEILING MOUNTED DEVICES. REFER TO 2/T300 FOR ADDITIONAL INFORMATION. *# INDICATES AN INFORMATION OUTLET FACEPLATE CONFIGURATION AS SHOWN ON THE DRAWINGS AND INFORMATION OUTLET SCHEDULE ON T500.	COVE-PLATE: PANDUIT WALLPLATE/BOX: CBX52*-A SERIES DATA/VOICE JACK: CJ688TP SERIES OR APPROVED EQUAL
SC-IO-W	WALL MOUNTED INFORMATION OUTLET. INFORMATION OUTLET INCLUDES A FACEPLATE WITH JACKS IN A PREDEFINED CONFIGURATION. *# INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE DRAWINGS AND THE INFORMATION OUTLET SCHEDULE ON T500. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING.	COVERPLATE: PANDUIT CPPE SERIES JACK: PANDUIT CAT6: CJ688TP SERIES OR APPROVED EQUAL
SC-MPP-1	48 - PORT MODULAR PATCH PANEL, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK. PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, UL LISTED. REQUIRES (2) 1.75" MOUNTING SPACES.	PANDUIT PANEL: CPP48WBLY CAT 6: CJ688TP SERIES OR APPROVED EQUAL
SC-RI-W	TECHNOLOGY ROUGH-IN, FLUSH MOUNT ON WALL OR AS NOTED IN PLANS, ALL TECHNOLOGY ROUGH-INS SHALL HAVE (1) 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING, APPROPRIATE COVERPLATE, AND (1) 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING.	*
SC-TTB	TELECOMMUNICATIONS TERMINAL BOARD, 4X8"X3/4" A-C GRADE FIRE-RATED PLYWOOD, EXPOSED SIDE SHALL BE SMOOTH, SAWN VERTICALLY WITH TOP OF PLYWOOD AT 8-6" AFF. IN THE EVENT THE MANUFACTURER'S RATING STAMP IS NOT VISIBLE ON THE SMOOTH SIDE, THE CONTRACTOR SHALL PROVIDE A LAMINATED LETTER FROM THE MANUFACTURER OR SUPPLIER CERTIFYING THAT THE PLYWOOD IS FIRE-RATED AND ATTACH THE LETTER WITH A PICTURE OF THE RATING STAMP, TO THE PLYWOOD. FIRE RATED PLYWOOD SHALL NOT BE PAINTED OR TREATED WITH ANY TYPE OF SEALANT THAT WOULD LESSEN THE INTEGRITY OF THE FIRE RATING.	*

INFORMATION OUTLET SCHEDULE									
SINGLE GANG WALLPLATES									
2-Port Faceplate		4-Port Faceplate							
									
NUMBER INDICATES FACEPLATE POSITION (TYP.)									
REFER TO SPECIFICATIONS FOR IDENTIFICATION REQUIREMENTS (TYP.)									
ANSI/TIA/EIA T568B PIN/PAIR ASSIGNMENT									
LEGEND									
CAT 6 RJ-45	DATA	CAT 6 RJ-45							
BLANK	BLANK	BLANK FILLER MODULE							
NOTES:									
1. PROVIDE REMOVABLE BLANK INSERT(S) FOR ALL UNUSED PORTS.									
2. REFER TO SPECIFICATIONS SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.									
SCHEDULE NOTES:									
1. LOCATION OF FUTURE OR OWNER PROVIDED WIRELESS ACCESS POINT. PROVIDE A 20' SLACK COIL AT THE NEAREST CAB...									
CONFIGURATION	FACEPLATE PORTS	FACEPLATE PORT IDENTIFICATION							
	POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	POSITION 5 JACK TYPE	POSITION 6 JACK TYPE	POSITION 7 JACK TYPE	POSITION 8 JACK TYPE	NOTES
C2	2 DATA	DATA							
C2-WAP	2 DATA	BLANK							1.
C5	6 DATA	DATA	DATA	DATA	DATA	BLANK			



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TECHNOLOGY SCHEDULES

T500