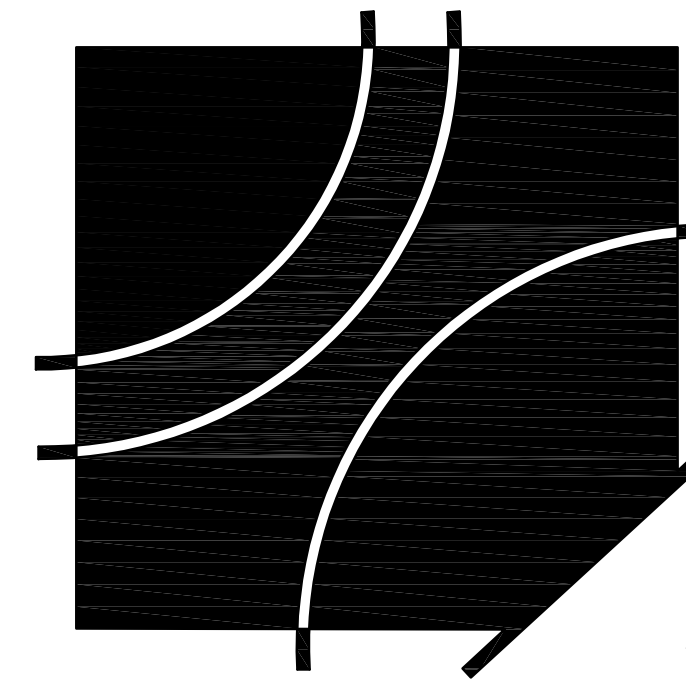


# Freestanding Medical Office Building Shell for: Sullivan County Community Hospital

2200 N Section St, Sullivan, IN 47882



JJCA

Johnson Johnson 4511 Trousdale Drive tel 615.837.0656  
Crabtree Architects P.C. Nashville, TN 37204 fax 615.837.0657

JJCA Project 23987.02

February 28, 2024



Architect of Record: Stephanie Pielich  
IN License #: AR12300165  
Contact Person: Harry Hadlock  
Office: 615-837-0656

## CONSTRUCTION DOCUMENTS - SHELL

OWNER/HOSPITAL

Sullivan County  
Community Hospital  
2200 N. Section Street, Box 10  
Sullivan, IN 47882-0010  
Office 812-268-4311  
Contact: Ron Shake

STRUCTURAL ENGINEER

EMC Structural  
Engineers, P.C.  
4525 Trousdale Drive  
Nashville, TN 37204  
Office 615-781-8199  
Contact: Benjamin B. Faris  
Engineer Of Record: Mark W. Savage  
IN License #: PE11200057



MECHANICAL ENGINEER

Smith Seckman Reid, Inc.  
2995 Sidco Dr.  
Nashville, TN 37204  
Office 615-330-6596  
Contact: George Johnson  
Engineer Of Record: Michael B. Burton  
IN License #: PE12100520



ELECTRICAL ENGINEER

Smith Seckman Reid, Inc.  
2995 Sidco Dr.  
Nashville, TN 37204  
Office 615-330-6596  
Contact: George Johnson  
Engineer of Record: Herbert M. Jenkins  
IN License #: PE10001079



LIFE SAFETY/CODES CONSULTANT

Fire Protection  
Associates  
4205 Hillsboro Road, Suite 209  
Nashville, TN 37215  
Office 615-292-8880  
Contact: Bill Steffenhagen

CONSTRUCTION DOCUMENTS - SHELL



# ARCHITECTURAL FIRE SAFETY CODE ANALYSIS

SULLIVAN COUNTY  
Sullivan, Indiana

Architectural Fire Safety Code Analysis

Fire Safety Concept:  
Design a new medical office building of wood frame construction with no hourly rating for the structure. The allowable area is 9,000 sf (IBC Table 503) + 27,000 sf (IBC 506.3 – sprinkler increase) = 36,000 sf.

The waiting areas are considered part of the Group B occupancy per IBC 303.1.2 for small assembly spaces.

Outside exits are provided at four locations.

- I. Applicable Codes:
- \*State Department of Homeland Security and City –
    - A. 2014 Indiana Building Code (2012 IBC with State amendments)
    - B. 2014 Indiana Mechanical Code (2012 IMC with State amendments)
    - C. 2012 Indiana Plumbing Code (2006 IPC with State amendments)
    - D. 2009 Indiana Electrical Code (2008 National Electrical Code with State amendments)
    - E. 2014 Indiana Fuel Gas Code (2012 International Fuel Gas Code with State amendments)
    - F. 2014 Indiana Fire Code (2012 International Fire Code with State amendments)
    - G. 2010 Indiana Energy Conservation Code (ASHRAE 90.1, 2007 edition with State amendments)
    - H. 2009 ANSI A117.1 Accessibility and Usable Building Facilities (with State amendments)

- \*Indiana State Department of Health (ISDH)
  - A. Indiana Health Care Facility Licensing Rules for Hospitals – 410 IAC 15–1.5 – October 2016
  - B. 2012 NFPA 101 Life Safety Code (LSC)
  - C. 2011 NFPA 70 National Electric Code
  - D. 2012 NFPA 90A Standard for the Installation of Air–Conditioning and Ventilation Systems
  - E. 2012 NFPA 99 Health Care Facilities Code
  - F. 2018 Guidelines for Construction and Equipment of Hospital and Medical Facilities

- II. Occupancy Types:
- A. Group B, Business (IBC 304)
  - B. Business (LSC Ch. 38)

- III. Construction Types:
- A. Type V–B (IBC 602.5)
  - B. Type V (000) NFPA 220

- IV. Structural Fire Ratings:
- None required.

- V. Fire Suppression System:
- Complete automatic sprinkler protection provided for entire building.

- VI. Height and Area:
- One story; 26,351 sf total

- VII. Other Life Safety Considerations (most stringent of applicable codes is indicated):

- A. Occupant load (IBC 1004.1.2):  
26,351 sf  
100 sf./occ. = 263 occupants
- B. Exit capacity (IBC 1005.3.2):  
Outside Doors  
 $4 (34") + 1 (67") = 203"$   
 $\frac{203"}{0.2"}/occ. = 1,015$  occupants
- C. Corridor width (IBC Table 1018.2):  
36" minimum with a required occupancy capacity of less than 50; 44" minimum elsewhere
- D. Dead end (IBC 1018.4, Ex. 2):  
50' maximum; no requirement when only one exit is permitted.
- E. Travel distance (IBC Table 1016.2):  
Any point to an exit – 300' maximum
- F. Door width (IBC 1008.1.1):  
32" clear width minimum
- G. Corridor construction (IBC 1018.1):  
Non–hourly–rated in fully sprinklered building
- H. Corridor doors (IBC 1018.1):  
No requirements with a non–hourly–rated corridor
- I. Incidental use or hazardous area separation (IBC Table 509):  
Waste and linen collection more than 100 sq. ft. in area – Smoke–resistive
- J. Interior finish (IBC Table 803.9):  
Corridors – Class C maximum flame spread  
Rooms – Class C maximum flame spread
- K. Floor covering (IBC 804.4.2):  
Enclosed exits & exit access – no minimum critical radiant flux criteria in fully sprinklered building
- L. Accessible egress (IBC 1007.1):  
Accessible outside exits in at least two remote locations provide accessible egress as required.
- K. Floor finish (IBC 804.4.2):  
Exits, corridors and means of egress – 0.22 watts/sq. cm. minimum as per NFPA 253 (radiant panel)
- J. Accessible means of egress (IBC 1009.1 & LSC 7.5.4):  
Accessible outside doors and horizontal exits can serve as accessible means of egress. LSC 7.5.4.1.3 exempts fully sprinklered health care occupancies from accessible means of egress provisions.

286J/9782  
8–15–22

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# SEISMIC ANALYSIS FOR ARCHITECTURAL, MECHANICAL, PLUMBING, & ELECTRICAL COMPONENTS

REFER TO THE SPECIFICATIONS FOR APPLICATION OF THESE NOTES TO SPECIFIC BUILDING COMPONENTS

ARCHITECTURAL, MECHANICAL, & ELECTRICAL COMPONENTS AND SYSTEMS SEISMIC REQUIREMENTS (BASED ON 2018 INTERNATIONAL BUILDING CODE WITH INDIANA AMENDMENTS SECTIONS 1613–1621)

Seismic Risk Category: II  
Seismic Importance Ie: 1.0  
.2 SEC Spectral Response Acceleration Ss: 0.358  
1.0 SEC Spectral Response Acceleration S1: 0.133  
Site Class: D (Assumed)  
Design Spectral Response SDS: 0.361 (Assumed)  
Design Spectral Response SD1: 0.207 (Assumed)  
Seismic Design Category: D (assumed)  
Resisting System: Light–Framed Wood Walls Sheathed With Wood Structural Panels Rated for Shear Resistance  
Response Modification Factor R: 6.5  
Seismic Response Coefficient Cs: 0.016  
Analysis Procedure: Equivalent Lateral Force  
Base Shear:

COMPONENT	ARCHITECTURAL COMPONENTS	
	Coefficient (Ap)	Coefficient (Rp)
Exterior–nonbearing walls	1.0	2.5
Interior–nonbearing wall, including vertical shaft enclosures	1.0	2.5
Exterior & Interior ornamentations & appendages	2.5	2.5
Permanent floor supported cabinets and books stacks	1.0	2.5
Suspended ceilings	1.0	2.5
Access floor systems	1.0	2.5
Partitions	1.0	2.5
Light Fixtures	1.0	1.25

COMPONENT	MECHANICAL, PLUMBING, & ELECTRICAL COMPONENTS	
	Coefficient (Ap)	Coefficient (Rp)
Tanks & Vessels including support systems.	1.0	2.5
Electrical, Mechanical, and plumbing equipment and associated conduit and ductwork and piping.	1.0	2.5
Electrical Distribution Systems	1.0	2.5
Electrical Equipment	1.0	2.5
Elevator Equipment	1.0	2.5

ADDITIONAL REQUIREMENTS:

- SEISMIC RESTRAINTS MAY BE OMITTED FROM PIPING AND DUCT SUPPORTS IF ALL THE FOLLOWING CONDITIONS ARE SATISFIED:
  - A. LATERAL MOTION OF THE PIPING OR DUCT WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS.
  - B. THE PIPING OR DUCT IS MADE OF DUCTILE MATERIAL WITH DUCTILE CONNECTIONS.
  - C. LATERAL MOTION OF THE PIPING OR DUCT DOES NOT CAUSE IMPACT OF FRAGILE APPURTENANCES (E.G. SPRINKLER HEADS) WITH ANY OTHER EQUIPMENT, PIPING OR STRUCTURAL MEMBER.
  - D. LATERAL MOTION OF THE PIPING OR DUCT DOES NOT CAUSE LOSS OF SYSTEM VERTICAL SUPPORT.
  - E. ROD–HUNG SUPPORTS OF LESS THAN 12 INCHES IN LENGTH HAVE TOP CONNECTIONS THAT CANNOT DEVELOP MOMENTS.
  - F. SUPPORT MEMBERS CANTILEVERED UP FROM THE FLOOR ARE CHECKED FOR STABILITY.
- SEISMIC RESTRAINTS MAY BE OMITTED FROM ELECTRICAL RACEWAYS, SUCH AS CABLE TRAYS, CONDUIT AND BUS DUCTS, IF ALL THE FOLLOWING CONDITIONS ARE SATISFIED:
  - A. LATERAL MOTION OF THE RACEWAY WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS.
  - B. LATERAL MOTION OF THE RACEWAY DOES NOT CAUSE LOSS OF SYSTEM VERTICAL SUPPORT.
  - C. ROD–HUNG SUPPORTS OF LESS THAN 12 INCHES IN LENGTH HAVE TOP CONNECTIONS THAT CANNOT DEVELOP MOMENTS.
  - D. SUPPORT MEMBERS CANTILEVERED UP FROM THE FLOOR ARE CHECKED FOR STABILITY.
- PIPING, DUCTS AND ELECTRICAL RACEWAYS, WHICH MUST BE FUNCTIONAL FOLLOWING AN EARTHQUAKE, SPANNING BETWEEN DIFFERENT BUILDINGS OR STRUCTURAL SYSTEMS SHALL SUFFICIENTLY FLEXIBLE TO WITHSTAND RELATIVE MOTION OF SUPPORT POINTS ASSUMING OUT–OF–PHASE MOTIONS.
- MOVEMENT OF COMPONENTS WITHIN ELECTRICAL CABINETS, RACK AND SKID–MOUNTED EQUIPMENT AND PORTIONS OF SKID–MOUNTED ELECTROMECHANICAL EQUIPMENT THAT MAY CAUSE DAMAGE TO OTHER COMPONENTS BY DISPLACING, SHALL BE RESTRICTED BY ATTACHMENT TO ANCHORED EQUIPMENT OR SUPPORT FRAMES.

# COMcheck Software Version 4.1.5.5 Envelope Compliance Certificate

Project Information  
Energy Code: 90.1 (2007) Standard  
Project Title:  
Location: Sullivan, Indiana  
Climate Zone: 4a  
Project Type: New Construction  
Vertical Glazing / Wall Area: 9%

Construction Site: 2200 North Section Street, Sullivan, IN 47882  
Owner/Agent:  
Designer/Contractor:

Building Area	Floor Area
1–Floor Area (Health Care–Clinic) : Nonresidential	26351

Envelope Assemblies	Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor 1: Slab-On-Grade Unheated, Vertical 3 ft., [Bldg. Use 1 - Floor Area] (b)		26351	---	7.5	0.530	0.530
North Exterior Wall: Wood-Framed, 16" o.c., [Bldg. Use 1 - Floor Area]		4167	13.0	7.5	0.051	0.089
Window 1: Metal Frame Fixed, Perf. Type: Energy code default, Double Pane, Tinted, SHGC 0.50, [Bldg. Use 1 - Floor Area]		150	---	---	0.900	0.550
Window 2: Metal Frame Fixed, Perf. Type: Energy code default, Double Pane, Tinted, SHGC 0.50, [Bldg. Use 1 - Floor Area]		168	---	---	0.900	0.550
Door 1: Glass (> 50% glazing) Metal Frame, Entrance Door, Perf. Type: Energy code default, Single Pane, Tinted, SHGC 0.70, PF 0.40, [Bldg. Use 1 - Floor Area]		120	---	---	1.250	0.850
East Exterior Wall: Wood-Framed, 16" o.c., [Bldg. Use 1 - Floor Area]		2301	13.0	7.5	0.051	0.089
Window 2: Metal Frame Fixed, Perf. Type: Energy code default, Double Pane, Tinted, SHGC 0.50, [Bldg. Use 1 - Floor Area]		84	---	---	0.900	0.550
Window 8: Metal Frame Fixed, Perf. Type: Energy code default, Double Pane, Tinted, SHGC 0.50, PF 0.40, [Bldg. Use 1 - Floor Area]		69	---	---	0.900	0.550
Door 2: Glass (> 50% glazing) Metal Frame, Entrance Door, Perf. Type: Energy code default, Single Pane, Tinted, SHGC 0.70, PF 0.40, [Bldg. Use 1 - Floor Area]		75	---	---	1.250	0.850
West Exterior Wall: Wood-Framed, 16" o.c., [Bldg. Use 1 - Floor Area]		2271	13.0	7.5	0.051	0.089
Window 1: Metal Frame Fixed, Perf. Type: Energy code default, Double Pane, Tinted, SHGC 0.50, [Bldg. Use 1 - Floor Area]		144	---	---	0.900	0.550
Window 8: Metal Frame Fixed, Perf. Type: Energy code default, Double Pane, Tinted, SHGC 0.50, PF 0.40, [Bldg. Use 1 - Floor Area]		69	---	---	0.900	0.550
Door 2: Glass (> 50% glazing) Metal Frame, Entrance Door, Perf. Type: Energy code default, Single Pane, Tinted, SHGC 0.70, PF 0.40, [Bldg. Use 1 - Floor Area]		75	---	---	1.250	0.850
South Exterior Wall: Wood-Framed, 16" o.c., [Bldg. Use 1 - Floor Area]		3241	13.0	7.5	0.051	0.089
Window 2: Metal Frame Fixed, Perf. Type: Energy code default, Double Pane, Tinted, SHGC 0.50, [Bldg. Use 1 - Floor Area]		84	---	---	0.900	0.550
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Floor Area]		26531	---	20.0	0.048	0.048

Project Title: Report date: 02/29/24  
Data filename: H:\2398702 - Sullivan Freestanding MOB\Sullivan ComCheck.cck Page 1 of 12

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements. (b) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.					
<b>Envelope PASSES: Design 1% better than code</b>					
<b>Envelope Compliance Statement</b>					
Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.					
Stephanie Pielich Name - Title	<i>Stephanie Pielich</i> Signature	02-29-24 Date			

# ALTERNATIVES

- A1 – PROVIDE CANOPY FOR MAT SPACE
- E1 – LIGHTING INVERTER FOR EMERGENCY POWER
- A2 – PROVIDE ALUMINUM CLAD WOOD WINDOWS IN LIEU OF ALUMINUM STOREFRONT

# BUILDING ENVELOPE

\*PER 2010 INDIANA ENERGY CONSERVATION CODE (BASED ON ASHRAE 90.1–2007, I–PEdHigh); SULLIVAN COUNTY, ZONE 4A

ROOF (INSULATION ABOVE DECK):  
R-VALUE (REQUIRED PER CODE\*) R = 20c.i.  
R-VALUE (ACTUAL DESIGN) R = 23c.i.

WALL:  
WOOD FRAMED  
R-VALUE (REQUIRED PER CODE\*) R = 13  
R-VALUE (ACTUAL DESIGN) R = R13 + 7.5c.i.  
SLAB ON GRADE (UNHEATED SLAB):  
R-VALUE (24" BELOW) NR  
R-VALUE (ACTUAL DESIGN) R = 7.5c.i.

U–FACTORS (DESIGN MATCHES REQUIRED BELOW):

WINDOW (METAL W/ THERMAL BREAK) U = 0.50  
DOOR (METAL W/ THERMAL BREAK) U = 0.70  
SHGC: 0.40  
ENTRANCE DOOR: U = 0.85

# TYPICAL LIST OF ABBREVIATIONS

ACT. ACoustical CEILING TILE	FVC. FIRE VALVE CONNECTION	O.C. ON CENTER
ALUM. ALUMINUM	EXIST. EXISTING	PC. PERSONAL COMPUTER
BLKG. BLOCKING	EXP. EXPANSION JOINT	RD. ROOF DRAIN
B.O. BOTTOM OF	FEC. FIRE EXTINGUISHER CABINET	RWL. RAIN WATER LEADER
CLS. CEILING	F.C. FACE OF CONCRETE	SQ. FT. SQUARE FOOT
CMU. CONCRETE MASONRY UNIT	F.V. FIELD VERIFY	STL. STEEL
CONC. CONCRETE	F.O.S. FACE OF STUD	STRUCT. STRUCTURAL
CONT. CONTINUOUS	GYP. BO. GYPSUM BOARD	TEMPERED TEMPERED
CT. CURTAIN TRACK	INSUL. INSULATION	T.O.S. TOP OF STEEL
DIA. DIAMETER	MAX. MAXIMUM	TYP. TYPICAL
ELEC. ELECTRICAL	MECH. MECHANICAL	UNO UNLESS NOTED OTHERWISE
EPDM. ELASTOMERIC MEMBRANE ROOFING	MIN. MINIMUM	W/ WITH
	MTL. METAL	

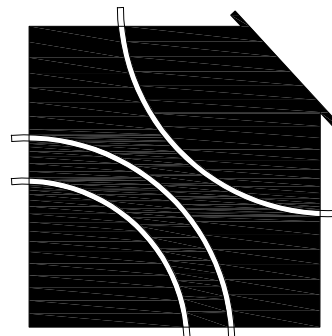
# GENERAL NOTES

- THE CONTRACTOR SHALL ASSEMBLE COMPONENTS WITH CAREFUL ATTENTION TO INSTALLATION OF FRAMING, SEALANTS, COMPONENTS, SUCH AS WINDOWS, DOOR FRAMES, LOUVERS, INSULATION SEALANTS, ETC. AS SHOWN ON THE DRAWINGS AND IS REQUIRED TO CREATE A COMPLETED PROJECT THAT IS IN COMPLIANCE WITH THE STATE DESIGN INTENT. FURTHERMORE, THE BUILDING SHALL BE IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND GOOD CONSTRUCTION PRACTICES FOR THIS LOCATION.
- CONTRACTOR SHALL COORDINATE THE WORK OF THE VARIOUS SUBCONTRACTORS AND MATERIAL SUPPLIERS TO ASSURE THE DESIGN INTENT HAS BEEN ACHIEVED.
- ALL WALLS SHALL BE BUILT INCORPORATING CONTROL JOINTS AND/OR EXPANSION JOINTS AS APPROPRIATE TO CONTROL MOVEMENT IN THE WALL DUE TO TEMPERATURE VARIANCE.
- ANY PENETRATIONS OF A SURFACE SHALL BE APPROPRIATELY SEALED.
- CONTRACTOR SHALL MAINTAIN WALL RATINGS AS SHOWN ON NEW WORK PLANS AND PROPERLY SEAL ALL PENETRATIONS AS REQUIRED FOR NEW WORK. REFERENCE WALL PRIORITY DIAGRAMS SHEET W.1 FOR PROPER RATED WALL CONSTRUCTION.
- ALL WALLS ARE TO EXTEND TO DECK AND ARE TO HAVE SOUND PROOFING, U.N.O.
- EXISTING CEILINGS TO BE REWORKED AND/OR REPLACED AS NEEDED TO COMPLETE PROJECT RENOVATIONS.

# TYPICAL LEGEND OF TAGS

(1111) DOOR TAG (4+ NUMBERS)	[X] PLAN KEY NOTE	[A/X] SECTION MARK
(1) INTERIOR WINDOW TAG (NUMBER)	[X] CASEWORK TAG	[X] DETAIL MARK
(X) EXTERIOR WINDOW TAG (LETTER)	(100) OFFICE ROOM TAG	[X] ENLARGED ENPLAN MARK

JJCA



Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
Sullivan, Indiana



Sheet Re-Issue Log

(Individual revisions clouded and labeled within each sheet)

PROJECT NUMBER  
**23987.02**  
DATE  
**February 28, 2024**

**I-1.0**  
INDEX AND CODE ANALYSIS

66 / 01.587.0656  
fax 01.587.0697

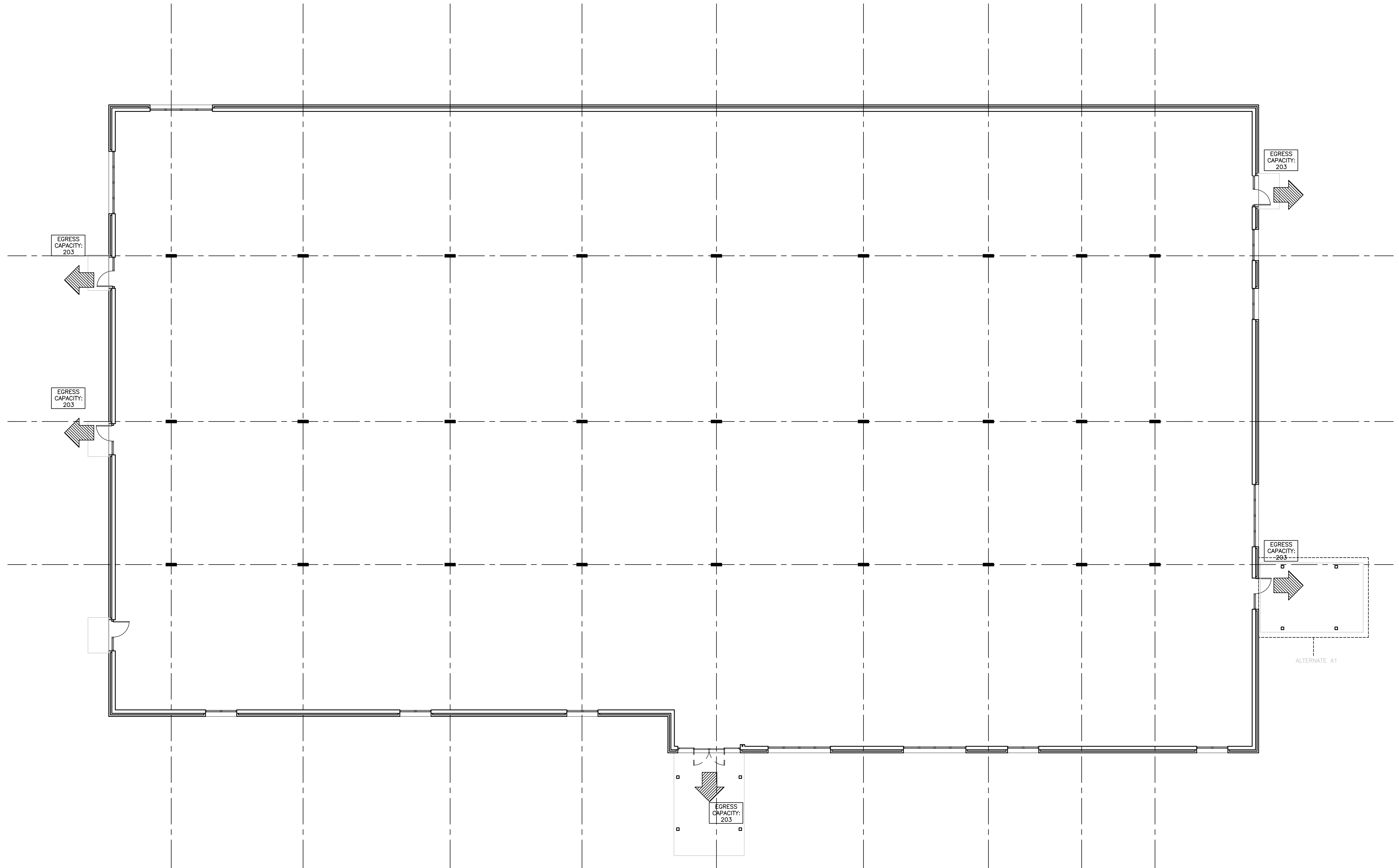
4551 Transfield Drive  
Merrillville, IN 46364

Johnson Johnson  
Crabtree Architects P.C.



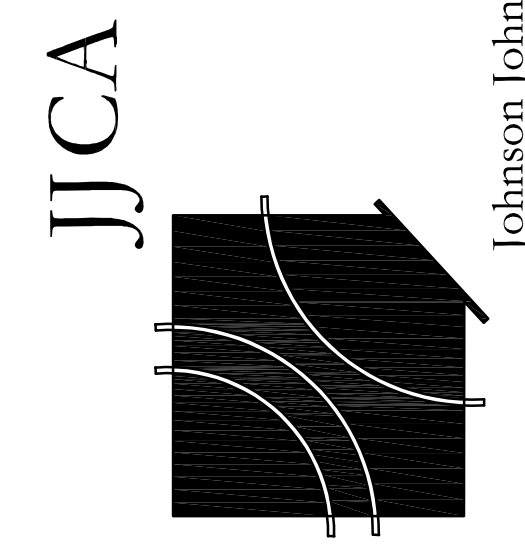
**LEGEND:**

- ➔ MEANS OF EGRESS
- \* SEE TENANT PACKAGE FOR LOCATIONS
- SEE TENANT PACKAGE FOR LOCATIONS
- ⊙ SEE TENANT PACKAGE FOR LOCATIONS
- SEE TENANT PACKAGE FOR LOCATIONS



**LIFE SAFETY PLAN**

PLAN NORTH 8' 0 8'



Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
 Sullivan, Indiana

Johnson Johnson  
 Crabtree Architects P.C.  
 4551 Townsboro Drive  
 Nashville, TN 37204  
 Tel: 615.837.0656  
 Fax: 615.837.0657



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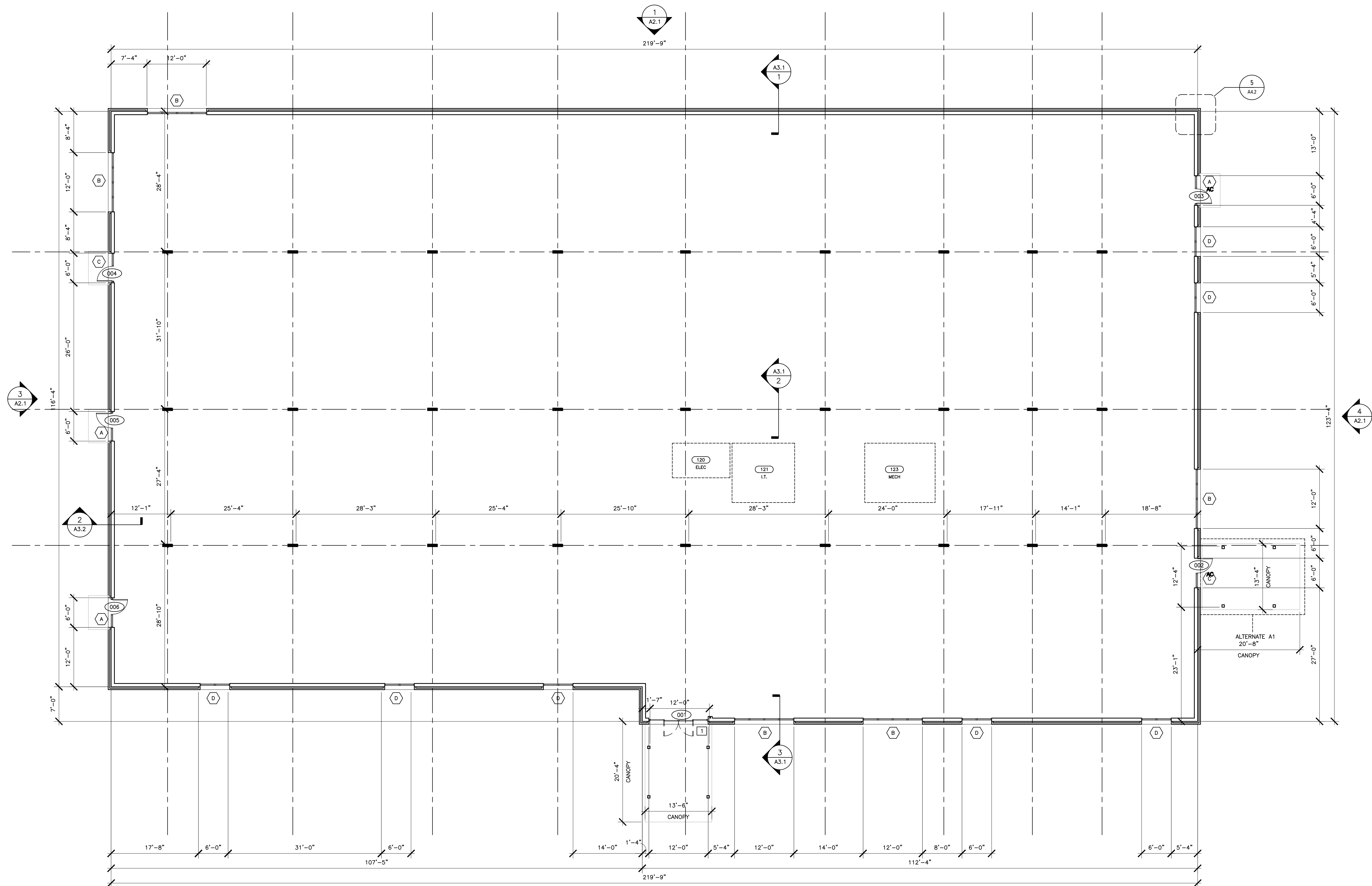
**A0.1**  
 LIFE SAFETY  
 PLAN

**GENERAL NOTES:**

- PROVIDE GENERAL DIMENSIONS AS SHOWN AND NOTE ANY DEVIATIONS.
- DIMENSIONS ARE FROM FACE OF STUD UNLESS OTHERWISE NOTED.
- DOORS TO MAINTAIN 18" ON THE PULLS SIDE AND 12" ON THE PUSH SIDE MINIMUM.
- SEE WINDOW ELEVATION FOR OPENING SIZES.

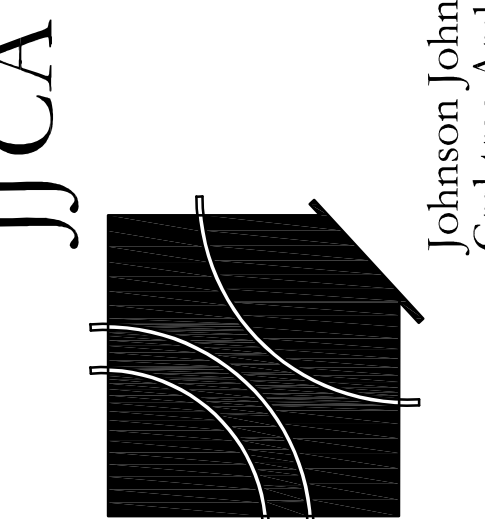
**DIMENSION KEY NOTES:**

- PROVIDE RECESSED KNX BOX PER LOCAL OFFICIAL REQUIREMENTS



**DIMENSIONED & NOTED FLOOR PLAN**

PLAN NORTH 8' 0 8'



Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
 Sullivan, Indiana



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**A1.0**  
 FLOOR PLAN  
 DIMENSION & NOTED



### ROOF LEGEND

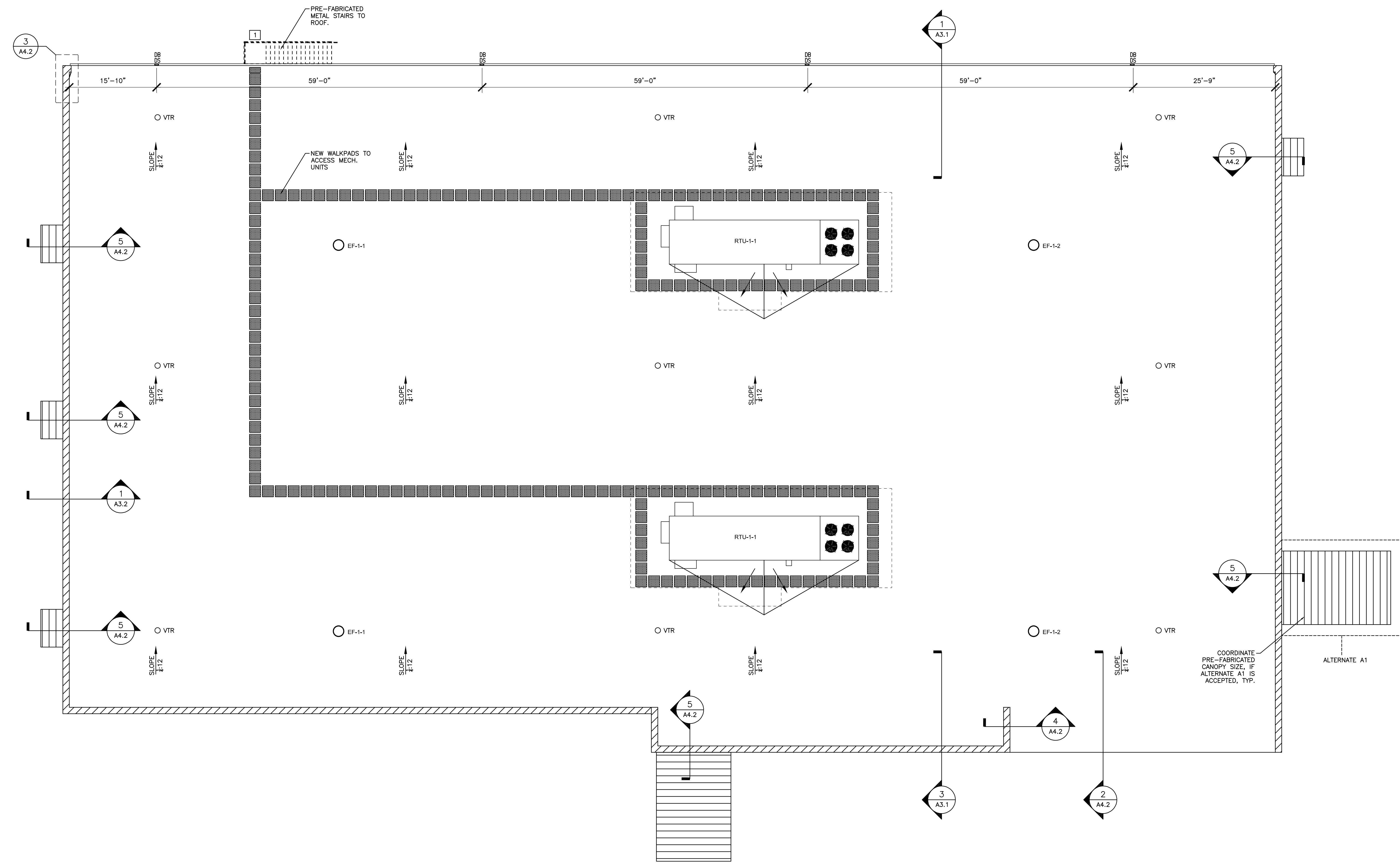
- DS = DOWNSPOUT
- DB = DOWNSPOUT BOOT
- EF = EXHAUST FAN
- DIRECTION OF ROOF SLOPE
- GUTTER
- ▨ PARAPET WALL
- WALK PAD
- ▨ PREFABRICATED CANOPY

### GENERAL ROOF NOTES:

- A. TYPICAL ROOF ASSEMBLY TO BE MEMBRANE ROOFING OVER RIGID INSULATION OVER SLOPED STRUCTURAL WOOD ROOF DECK U.N.O.
- B. ROOF TO MAINTAIN AN AVERAGE INSULATION VALUE OF R-23 CONTINUOUS PER ENERGY CODE.
- C. CONTRACTOR TO COORDINATE WOOD TRUSS DESIGN TO FACILITATE MECHANICAL EQUIPMENT CLEARANCE.
- D. MAINTAIN WEATHER TIGHT CONDITIONS THROUGHOUT CONSTRUCTION.
- E. SEE DETAILS 4/A4.10 FOR PIPE PENETRATION DETAIL, 5/A4.10 FOR EXHAUST FAN CURB INSTALLATION AND 7/A4.10 & 8/A4.10 FOR RTU INSTALLATION

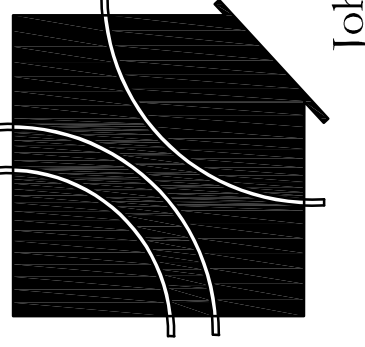
### ROOF PLAN KEY NOTES:

1. PROVIDE PREFABRICATED METAL STAIRS TO ROOF.



**OVERALL ROOF PLAN**  
 PLAN NORTH 8' 0 8'

JJCA



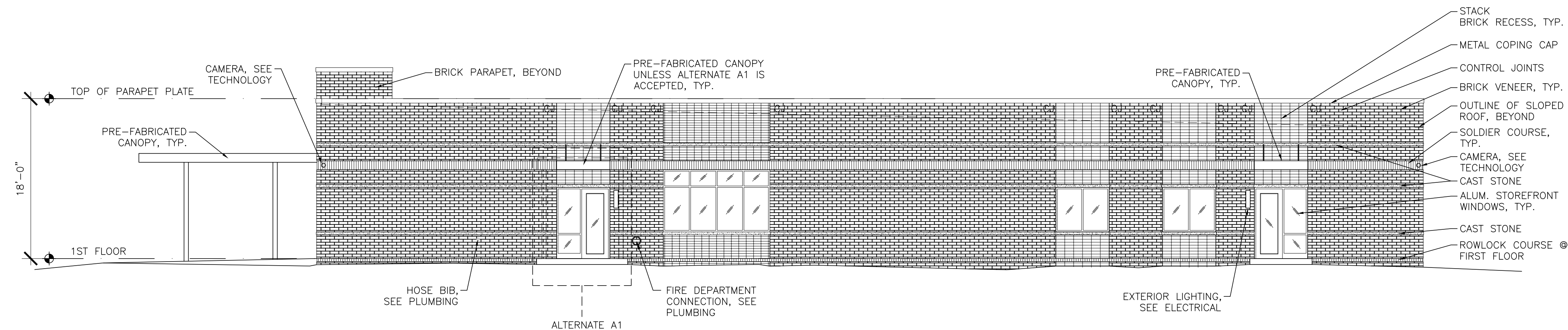
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 Sullivan, Indiana



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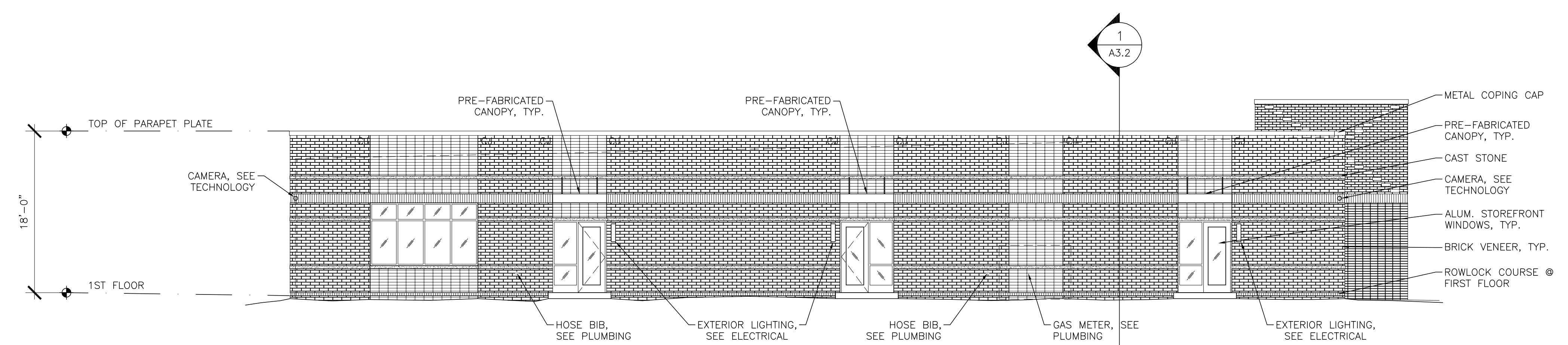
**A1.5**  
 ROOF PLAN



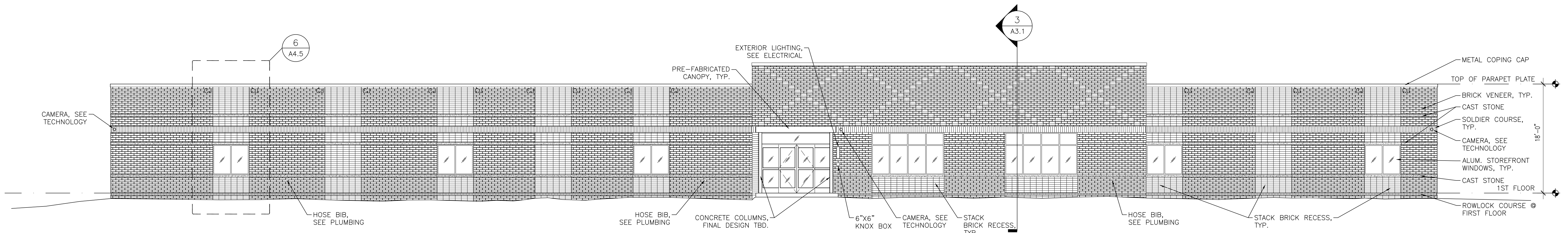
**LEGEND:**

	STACK BOND
	RUNNING BOND
	SOLDIER COURSE
	CAST STONE

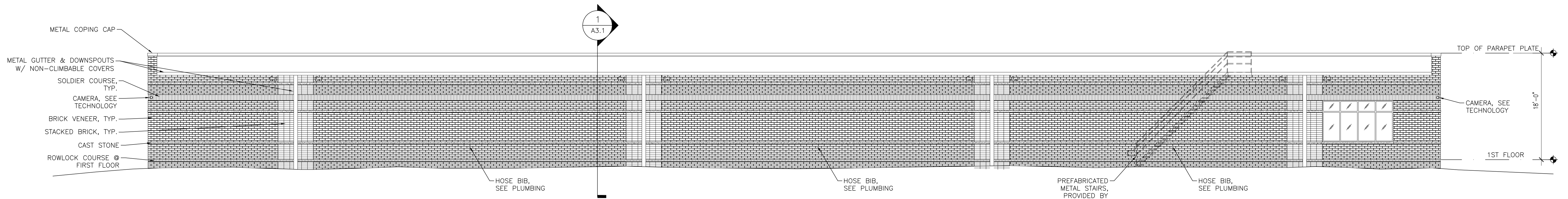
**4 BUILDING ELEVATION - WEST**



**3 BUILDING ELEVATION - EAST**

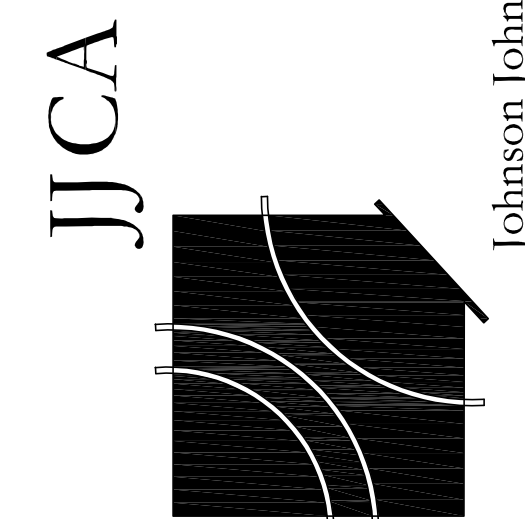


**2 BUILDING ELEVATION - NORTH**



**1 BUILDING ELEVATION - SOUTH**

8' 0 8' TYPICAL SCALE THIS SHEET UNLESS NOTED OTHERWISE



Freestanding Medical Office Building Shell for:  
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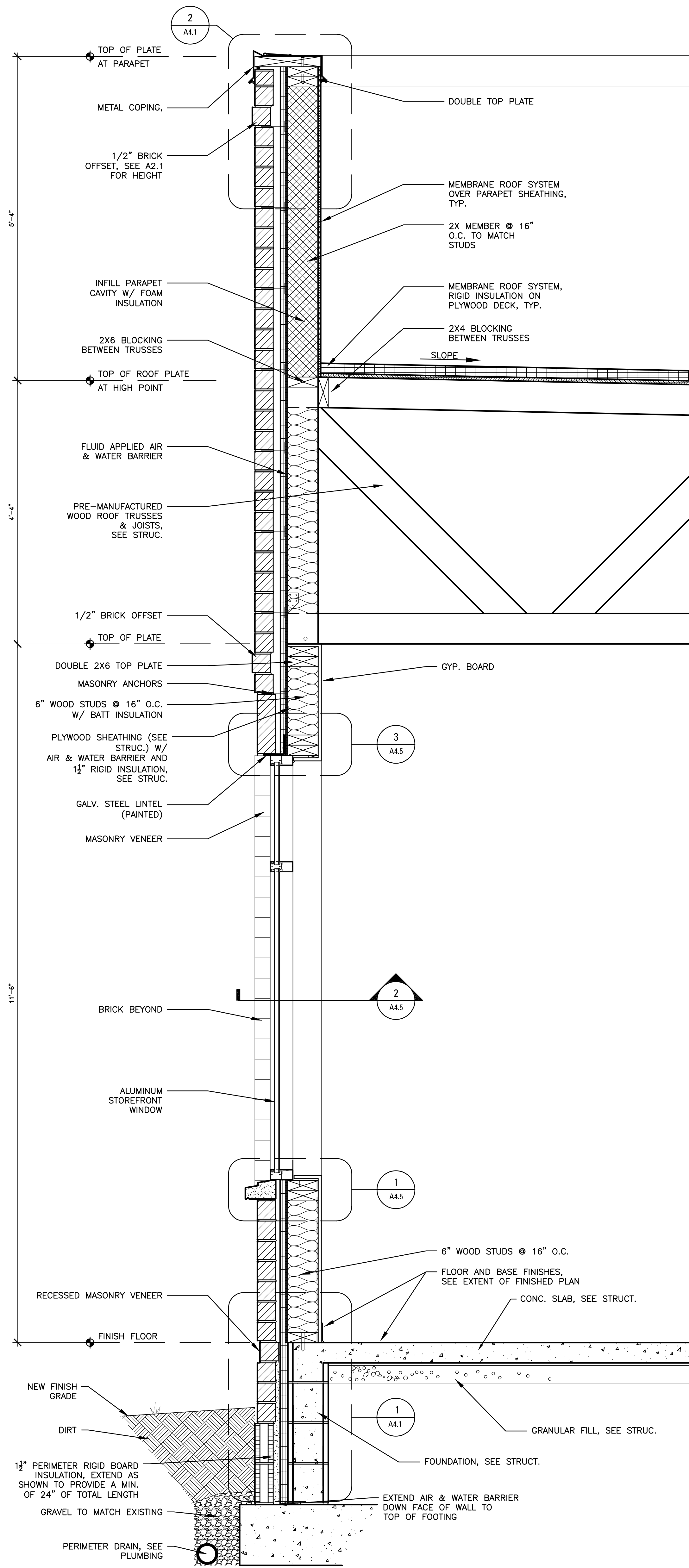


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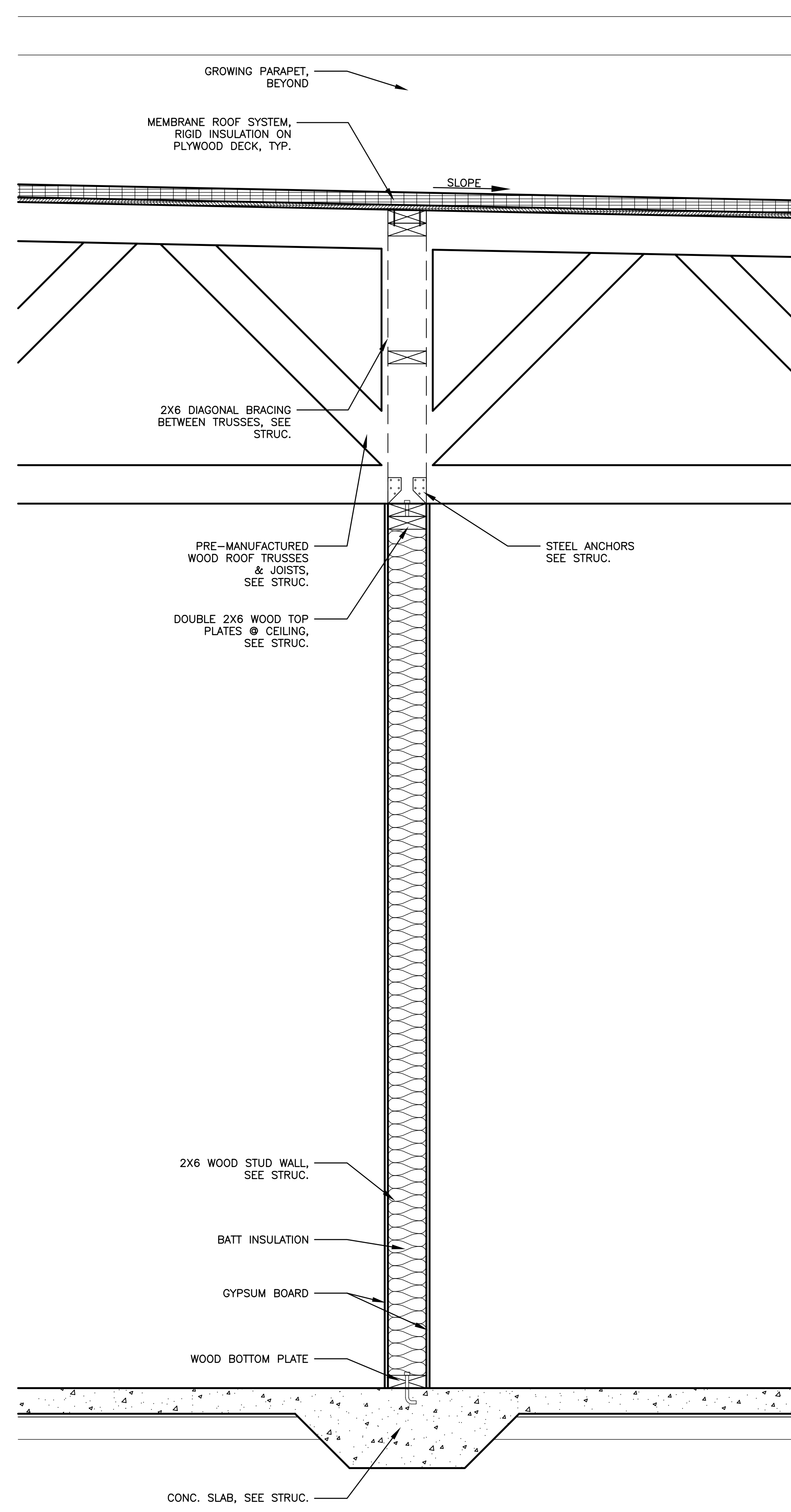
PROJECT NUMBER  
**23987.02**  
 DATE  
**February 28, 2024**

**A2.1**  
 BUILDING  
 ELEVATIONS

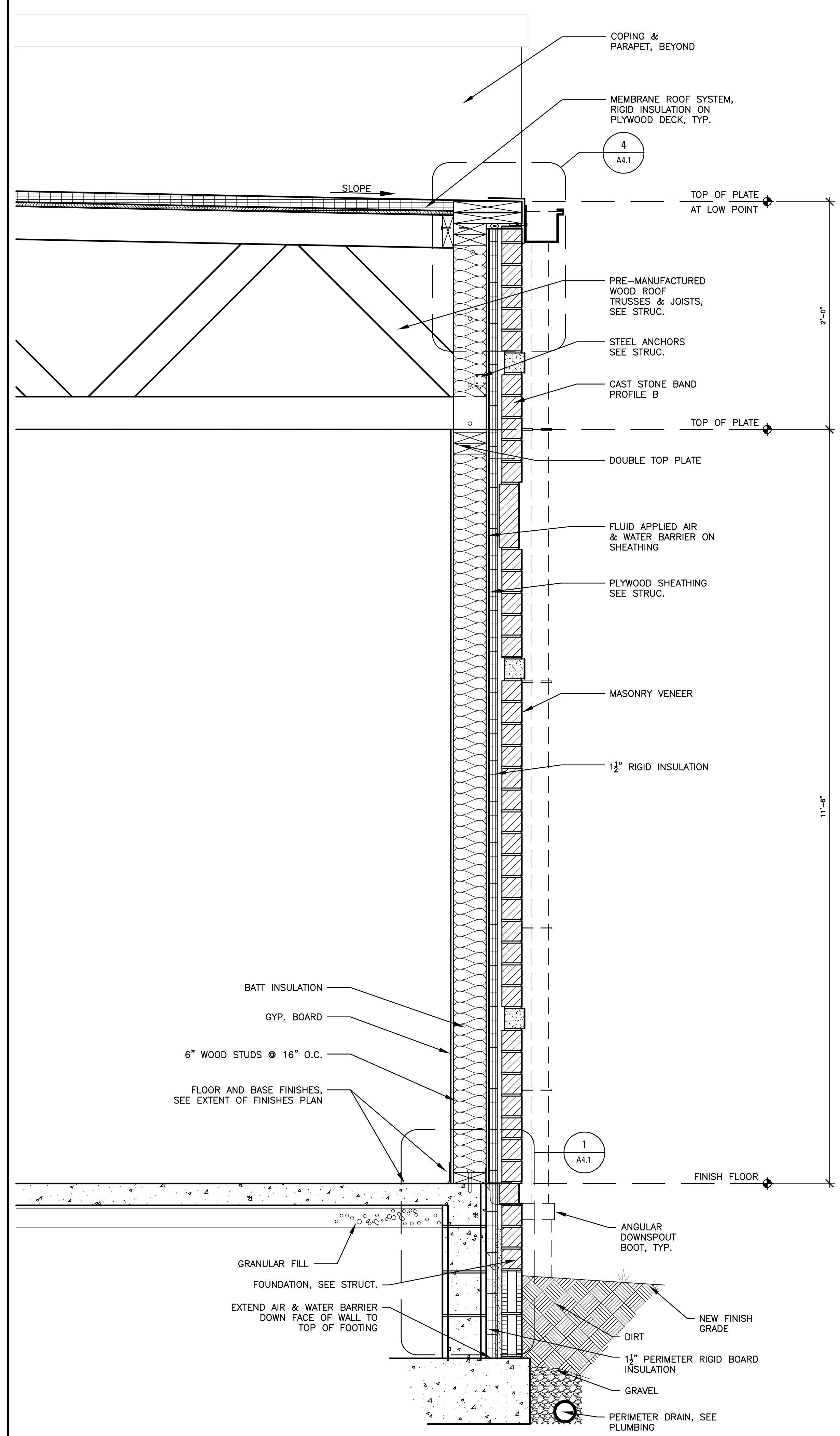




**3** TYPICAL WALL SECTION @ BRICK  
A1.0



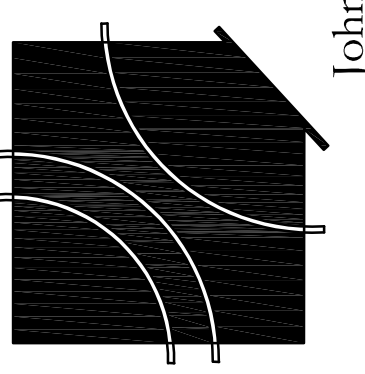
**2** TYPICAL INT. WALL SECTION  
A1.0



**1** TYPICAL WALL SECTION @ BRICK - REAR  
A1.0

1' 0 1' 2' TYPICAL SCALE THIS SHEET UNLESS NOTED OTHERWISE

JJCA



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Sullivan, Indiana



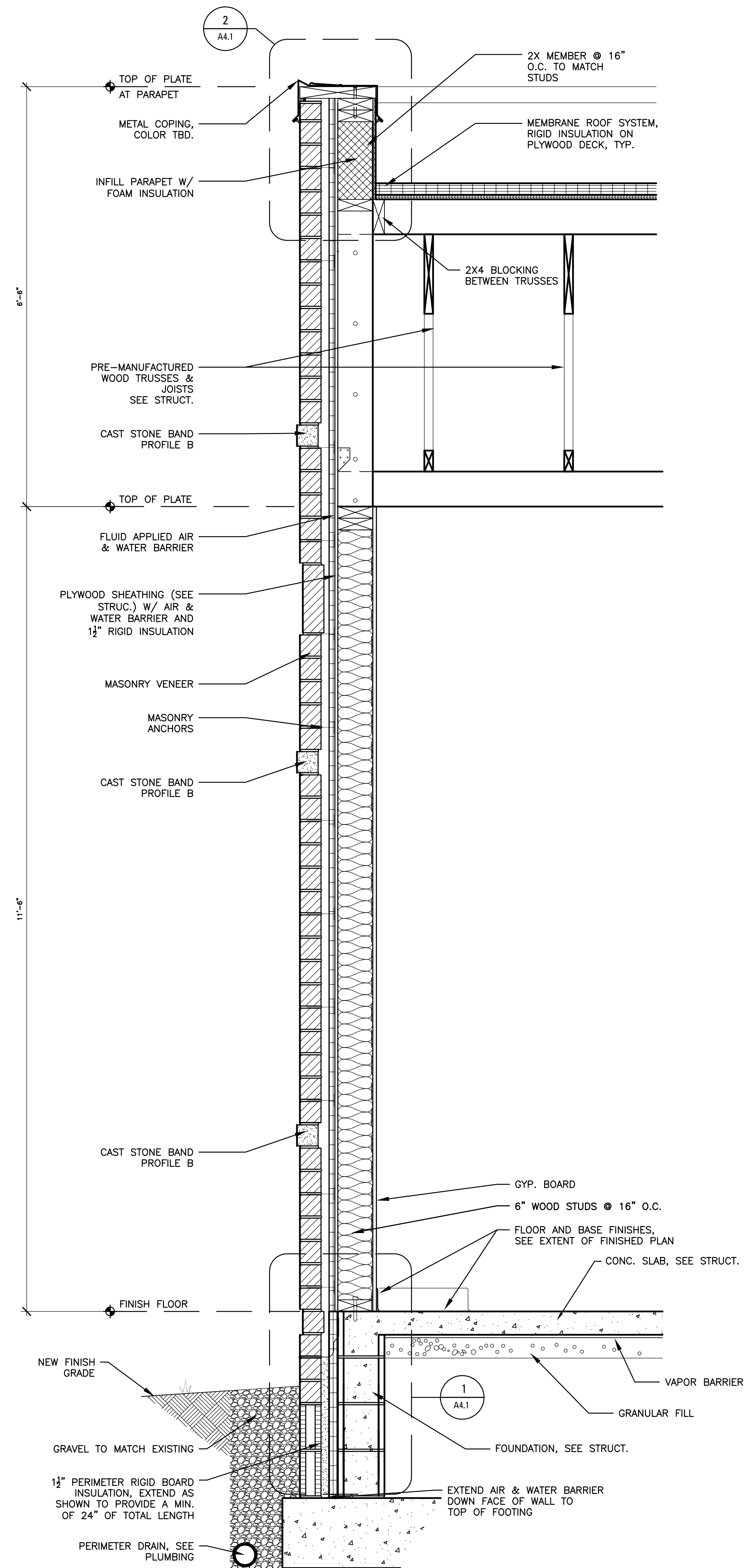
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PROJECT NUMBER  
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DATE  
**February 28, 2024**

**A3.1**  
WALL SECTIONS

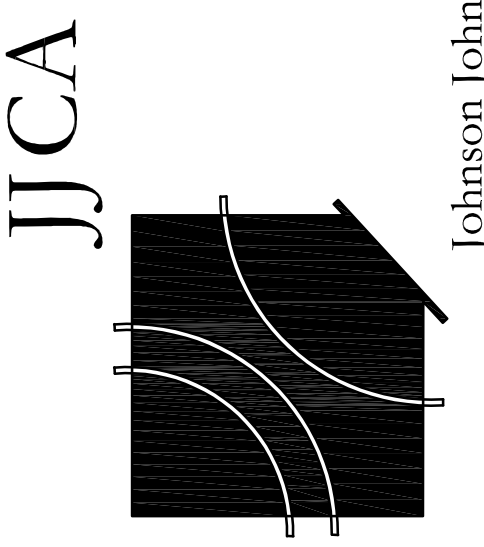
651 Transfield Drive  
Nashville, TN 37204  
615.837.0656  
615.837.0657

Johnson Johnson  
Crabtree Architects P.C.



**1** TYPICAL WALL SECTION @ SIDE  
A1.0

TYPICAL SCALE THIS SHEET UNLESS NOTED OTHERWISE



Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
Sullivan, Indiana

JJCA  
Johnson Johnson  
Crabtree Architects P.C.  
4551 Townsboro Drive  
Nashville, TN 37204  
Tel: 615.837.0656  
Fax: 615.837.0657

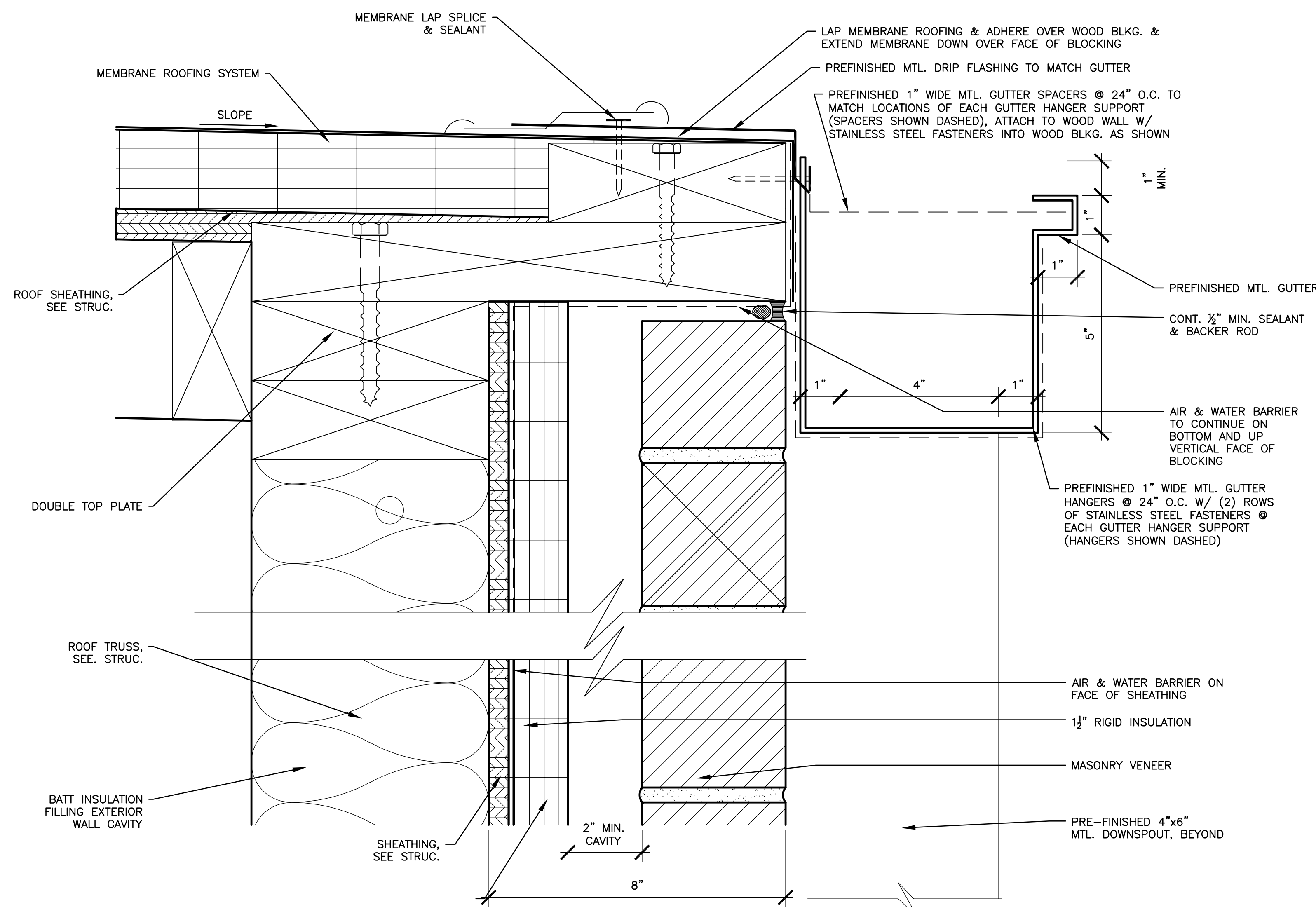


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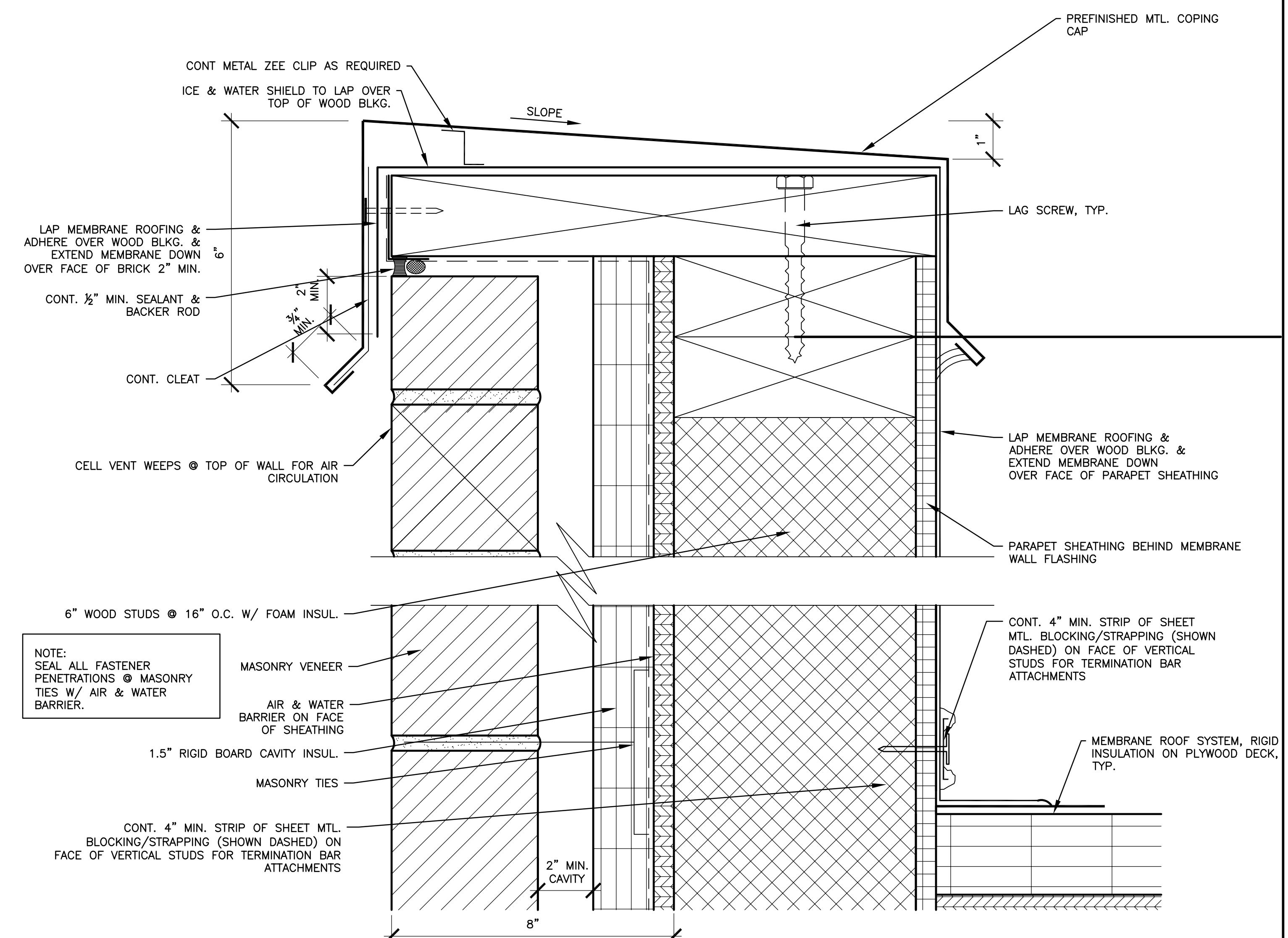
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**23987.02**  
DATE  
**February 28, 2024**

**A3.2**  
WALL SECTIONS

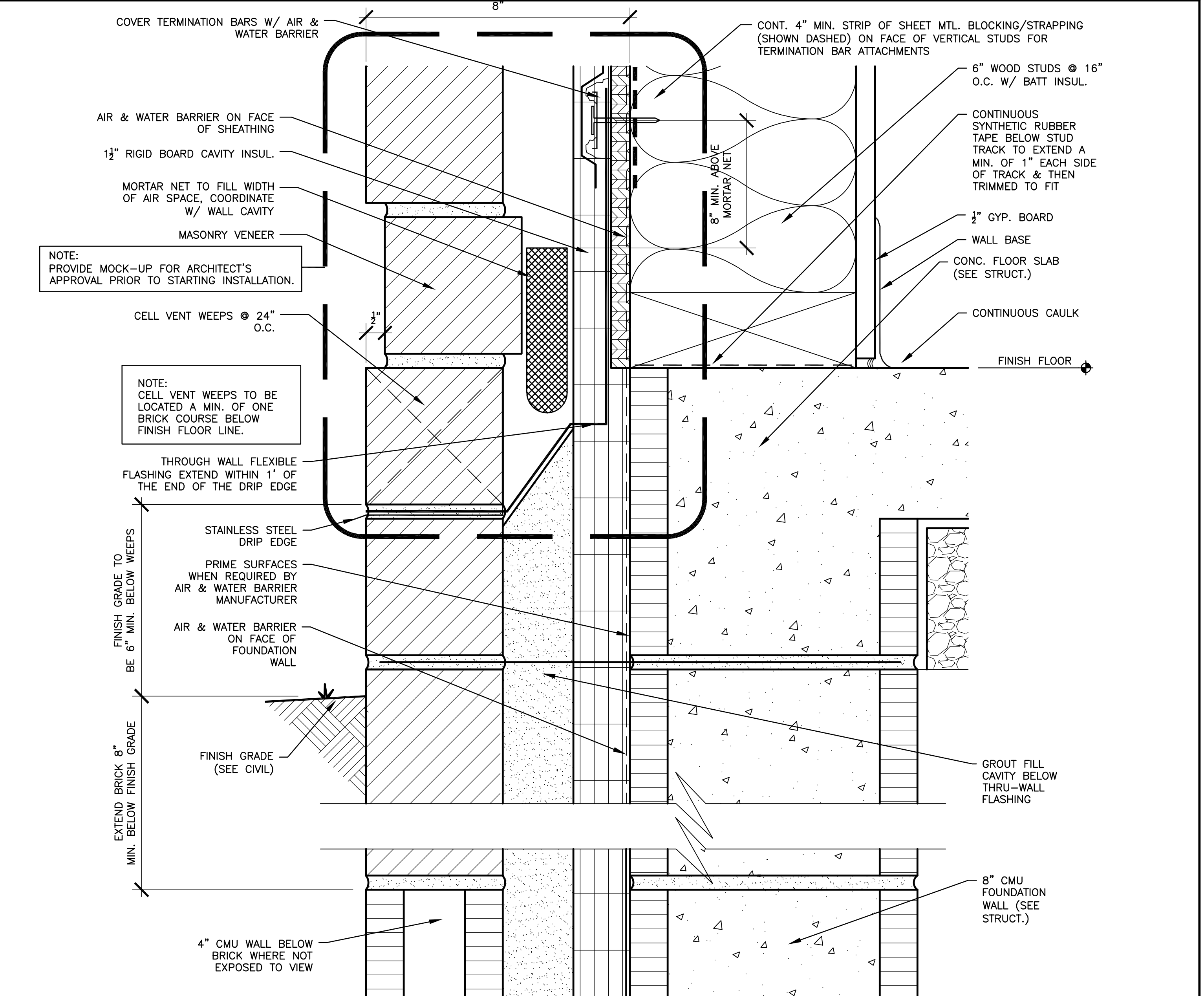




**4** DETAIL - TOP OF WALL @ GUTTER  
A3.1

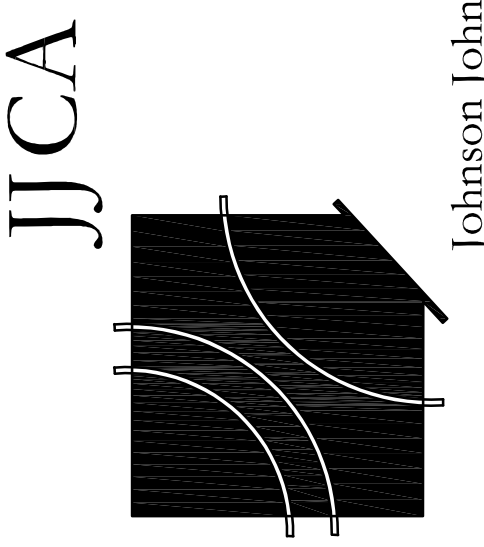


**2** DETAIL - TOP OF WALL @ BRICK  
A3.1

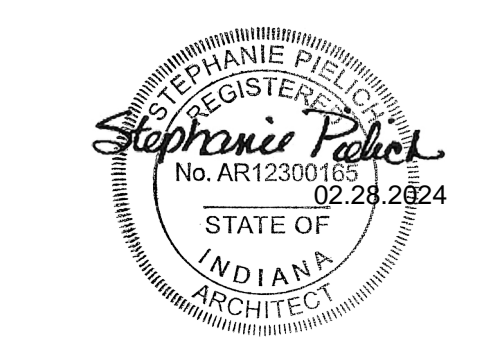


**1** DETAIL - BRICK BASE @ FINISH GRADE  
A3.1

0 1" 2" 3" 6" TYPICAL SCALE THIS SHEET UNLESS NOTED OTHERWISE



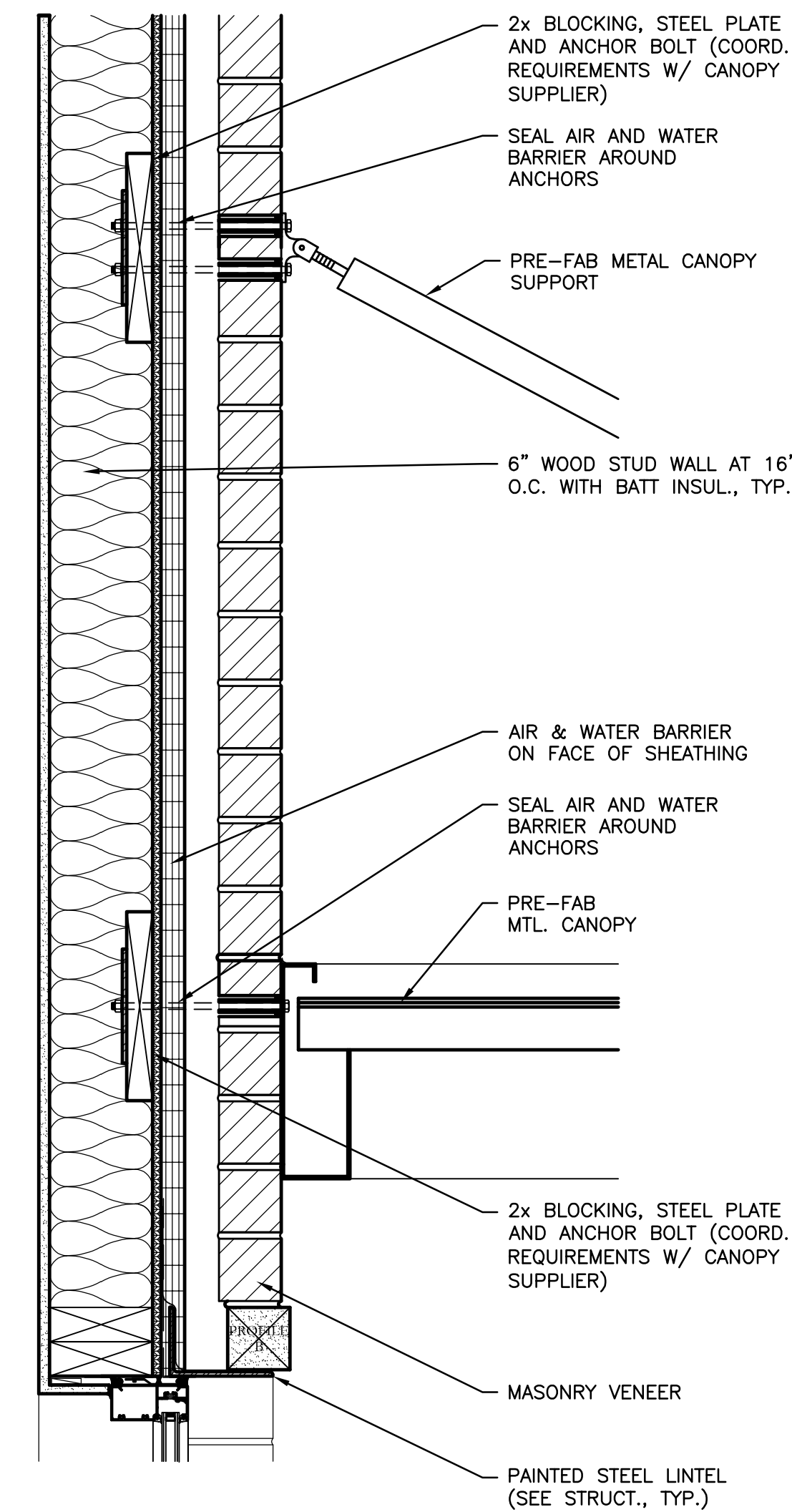
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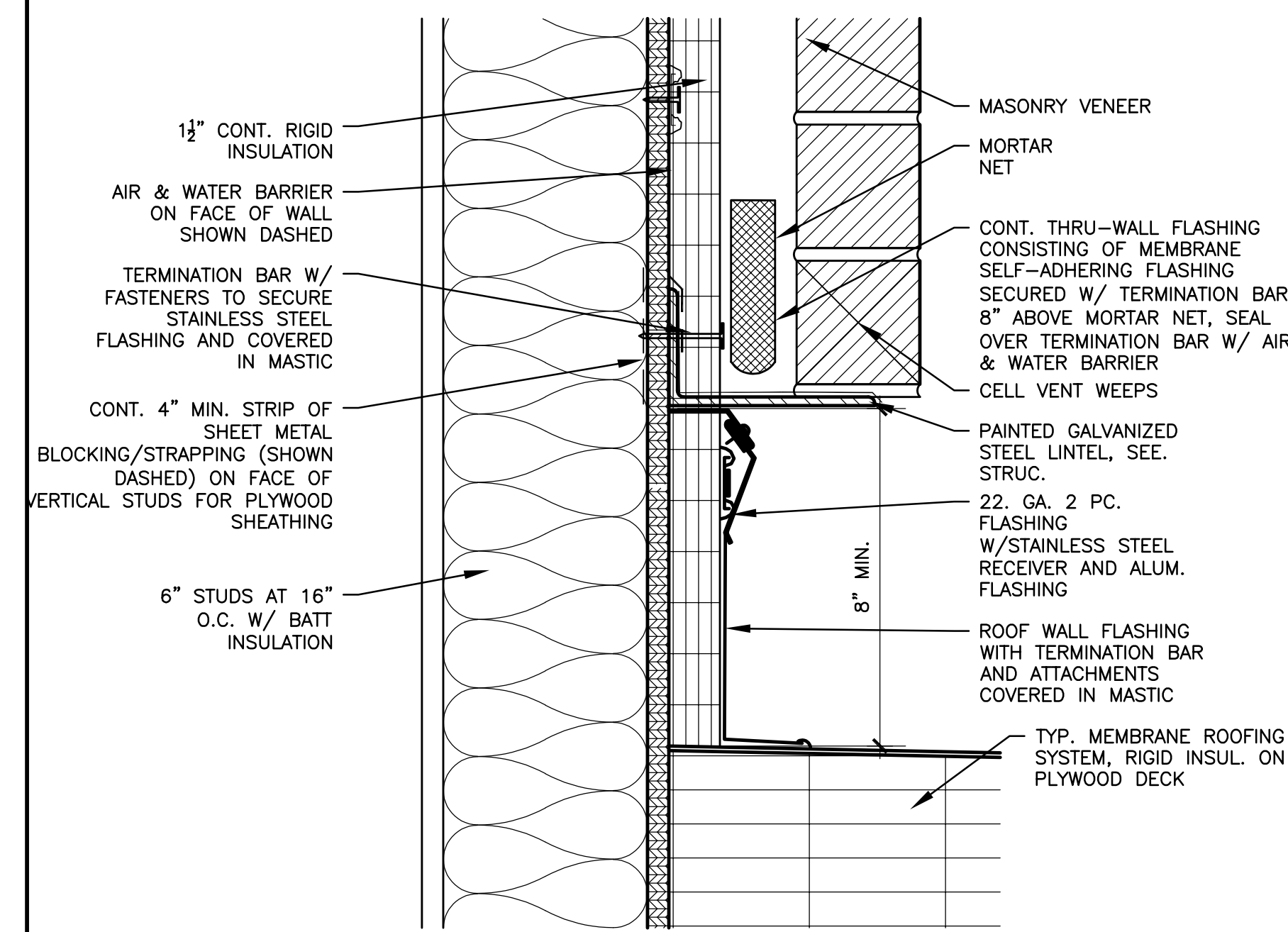
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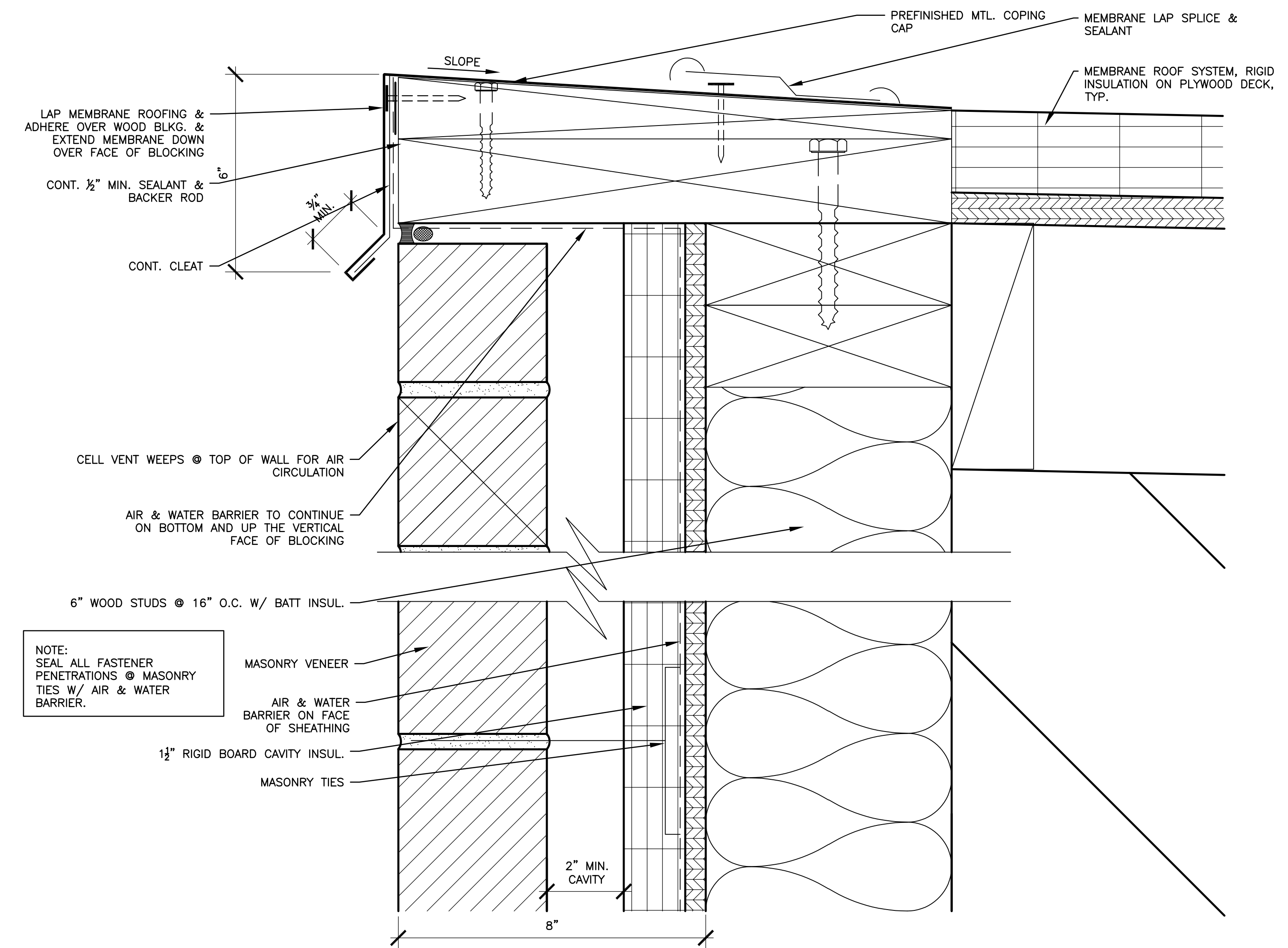
**A4.1**  
WALL DETAILS



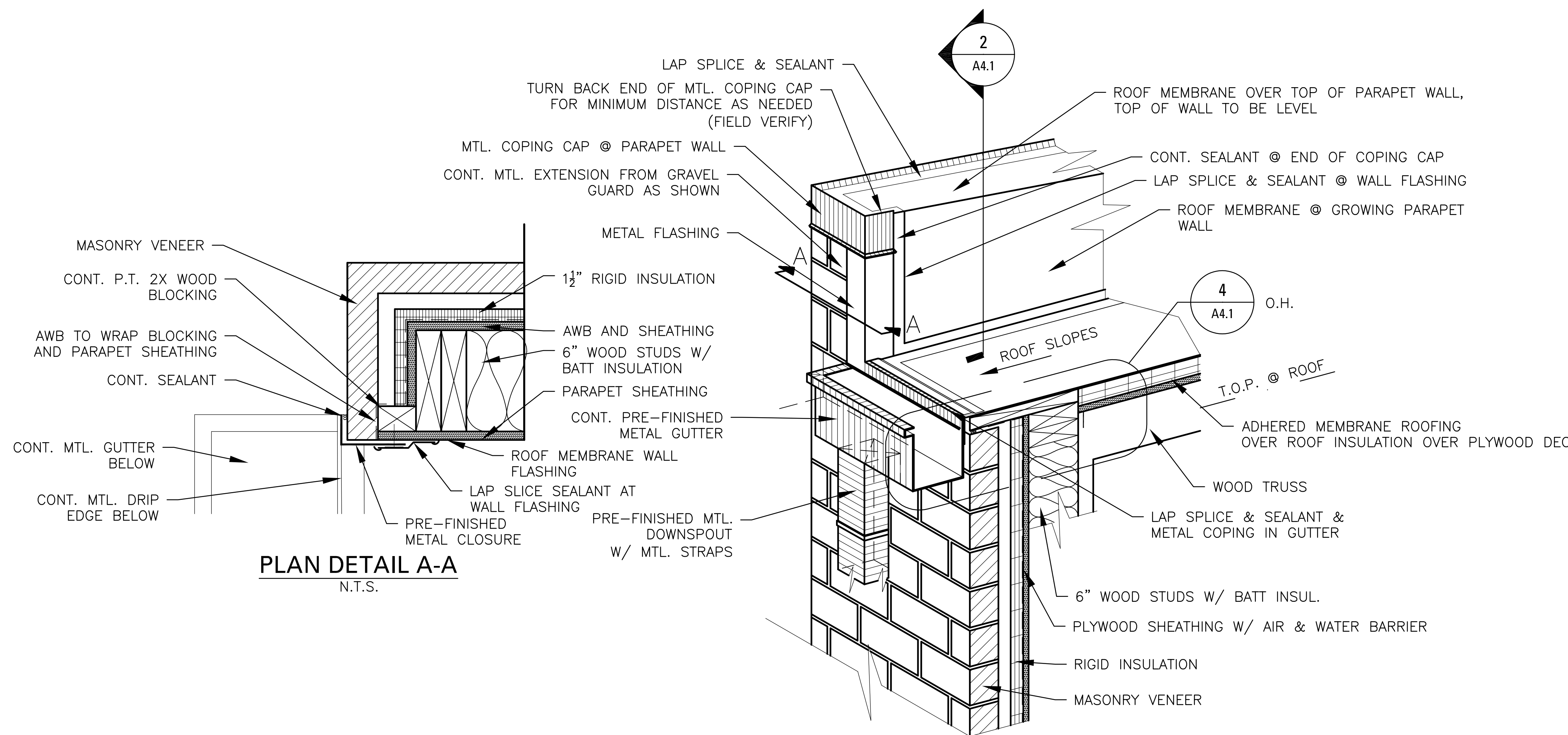
**5** DETAIL - PRE-FAB CANOPY  
A1.5



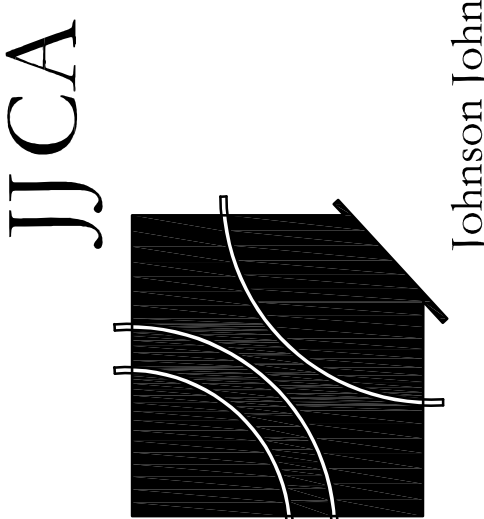
**4** DETAIL - PARAPET WALL OVER ROOF  
A1.5



**2** DETAIL - ROOF TO WALL  
A3.2



**3** DETAIL - AT GUTTER TO PARAPET WALL  
A1.5



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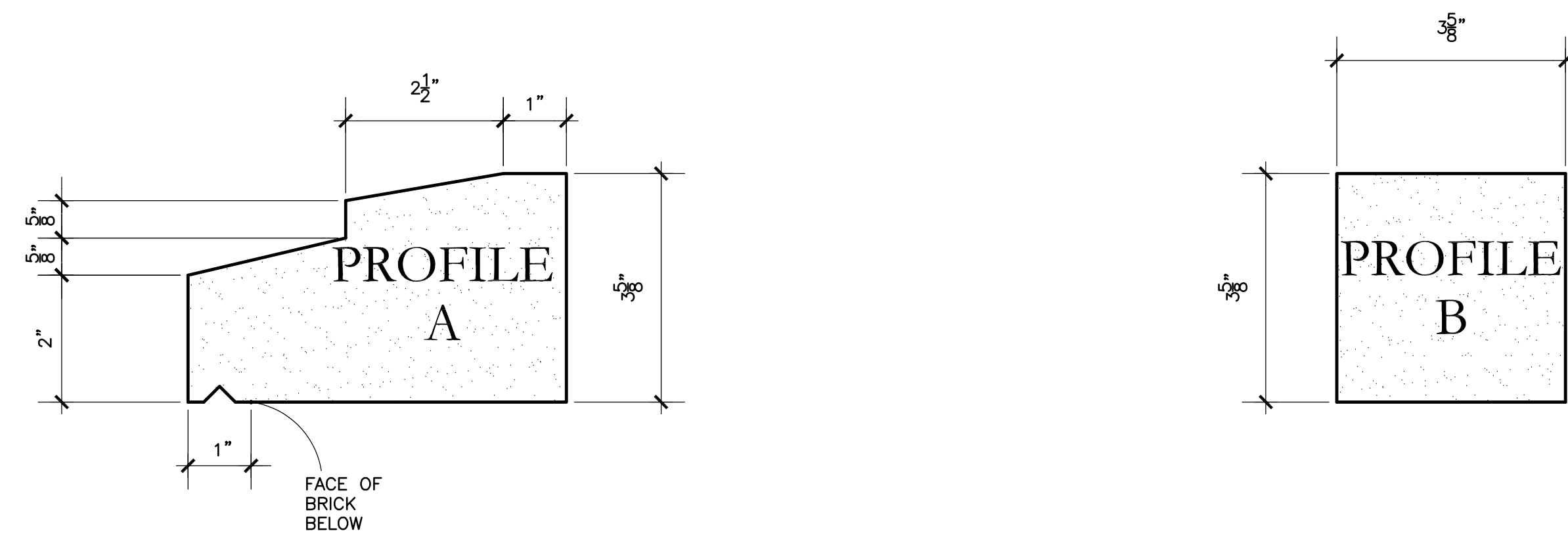


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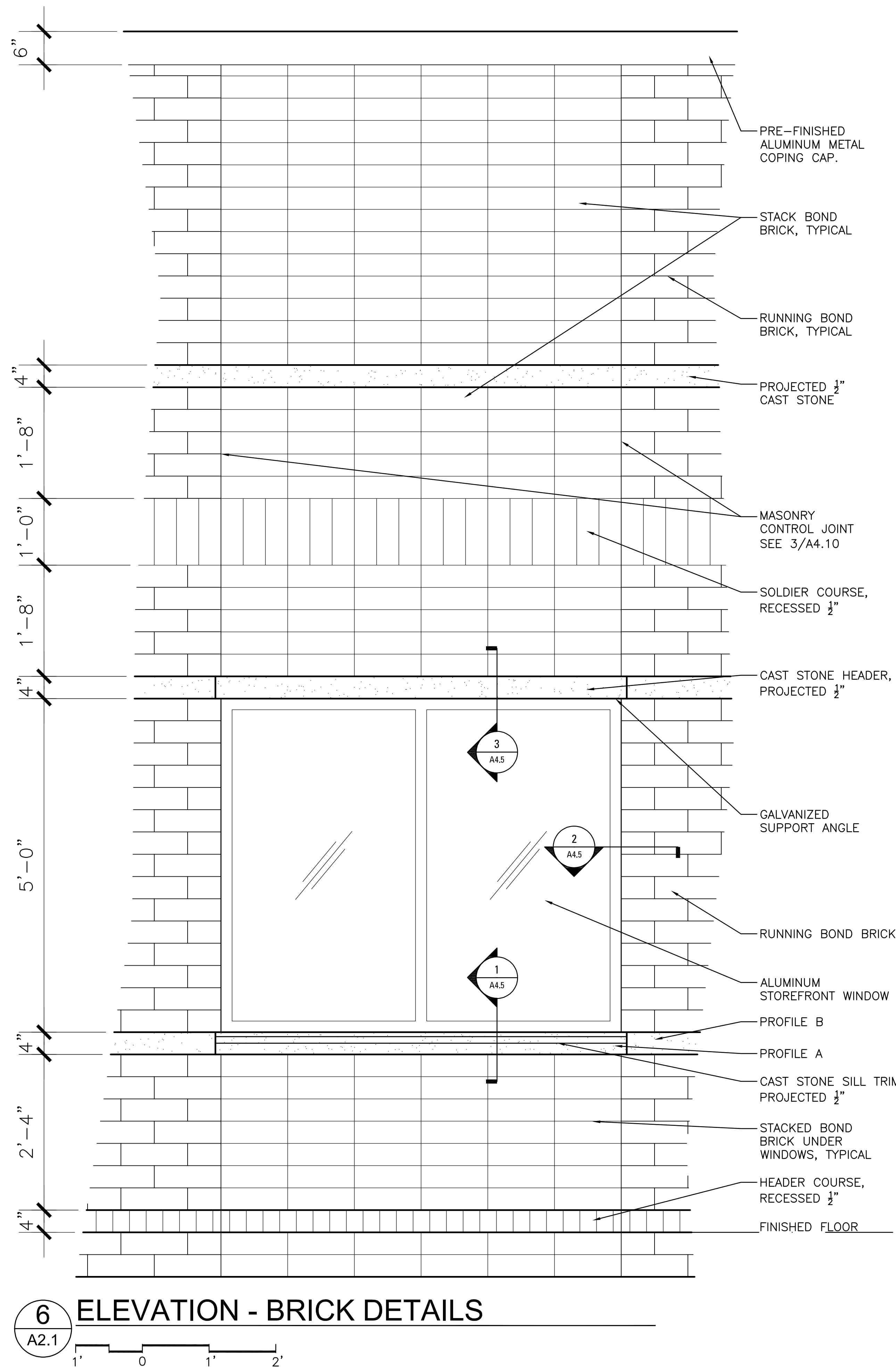
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**23987.02**  
DATE  
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**A4.2**  
WALL DETAILS

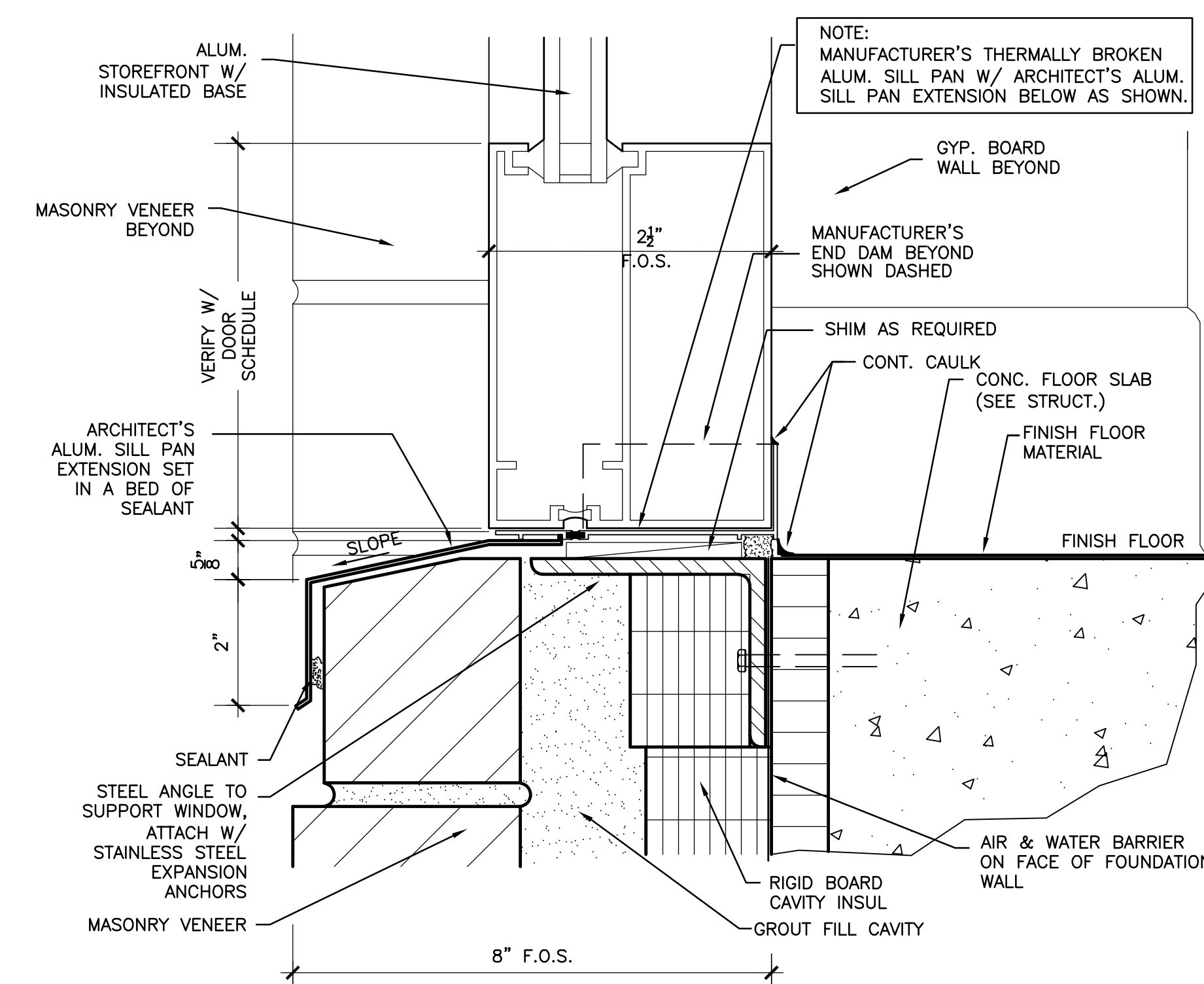




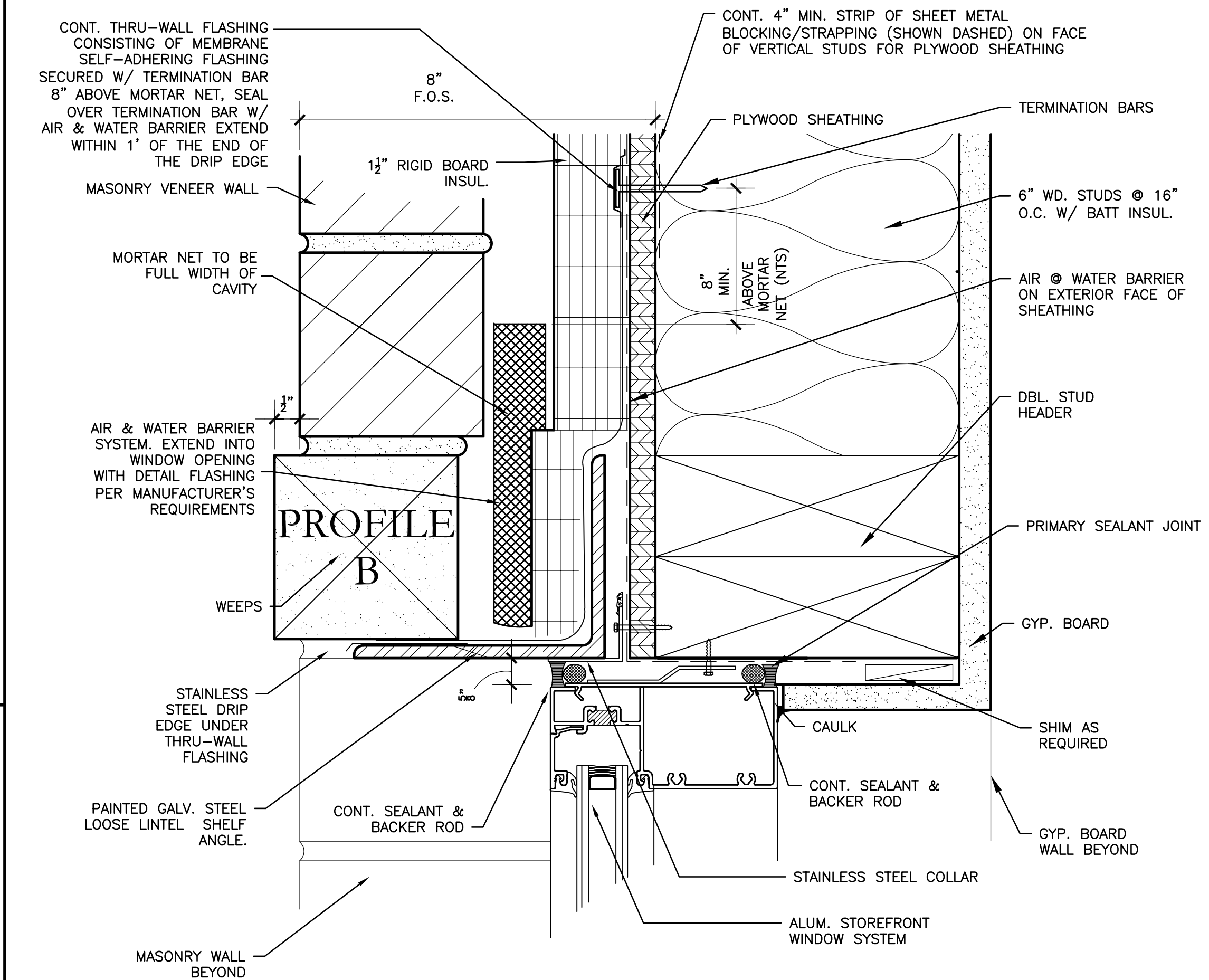
**7** DETAIL - CAST STONE  
A2.1



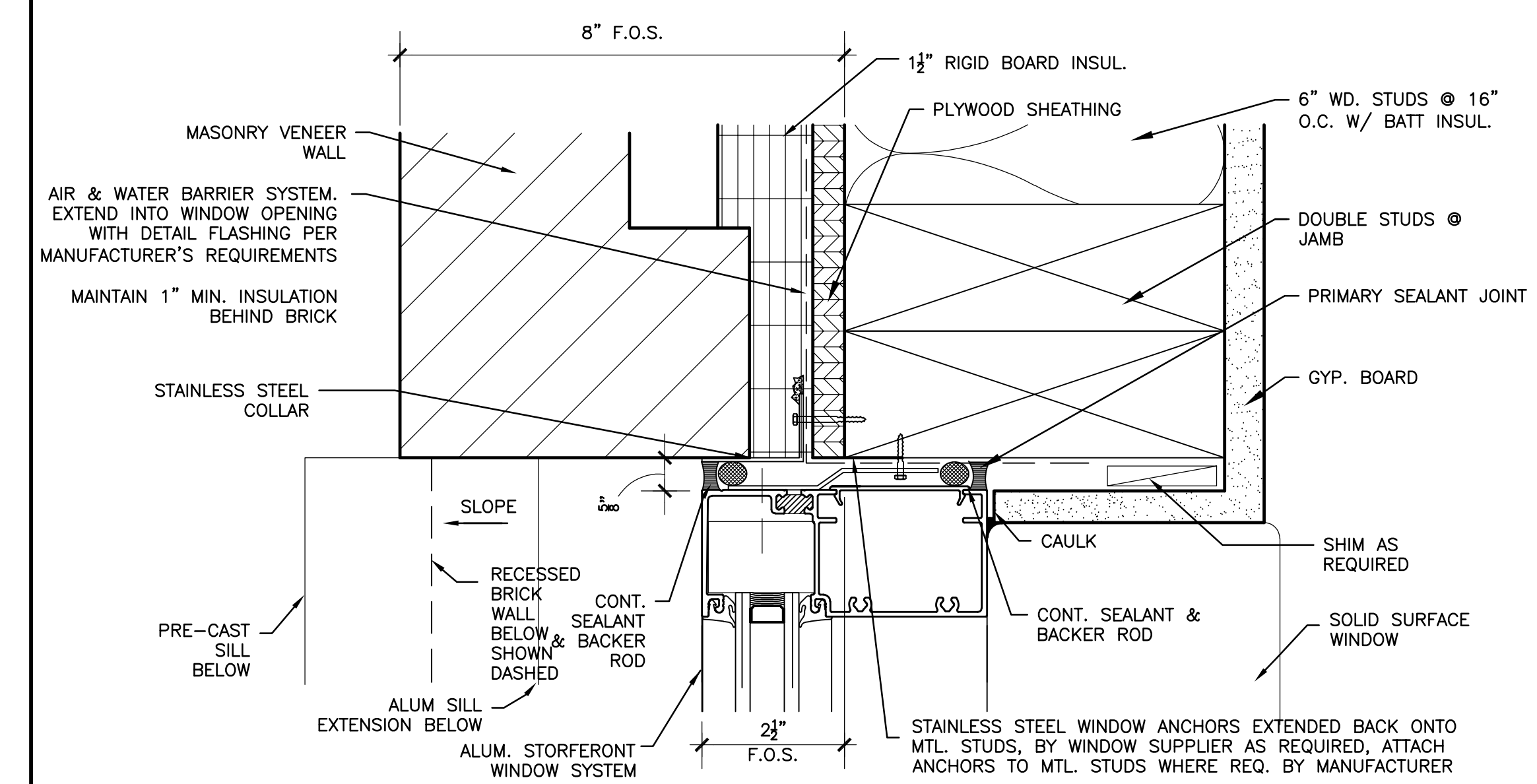
**6** ELEVATION - BRICK DETAILS  
A2.1



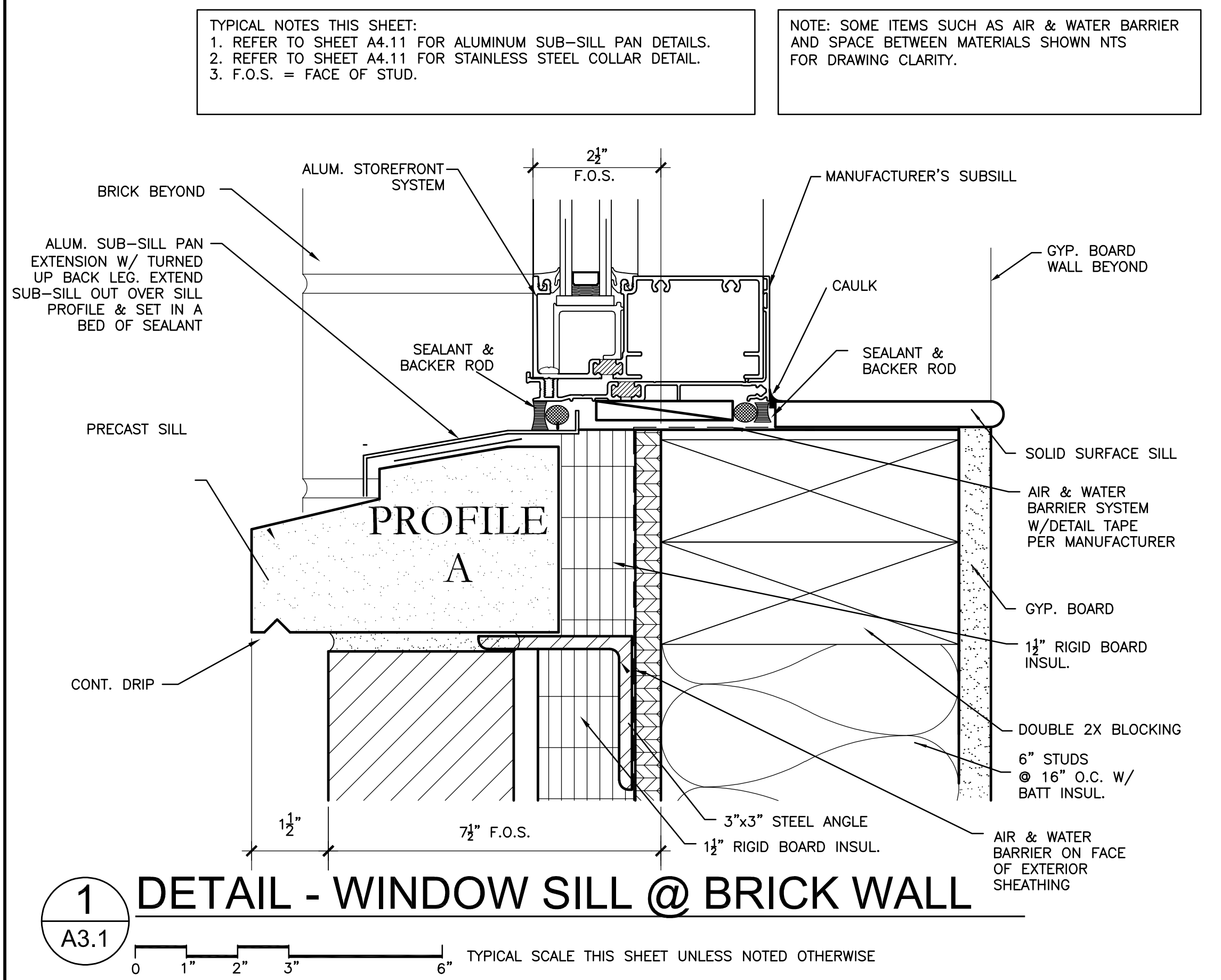
**4** DETAIL - WINDOW SILL @ FLOOR  
A3.1



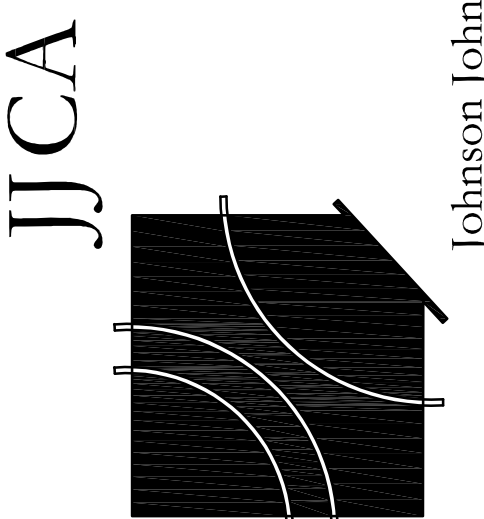
**3** DETAIL - WINDOW HEAD @ BRICK WALL  
A3.1



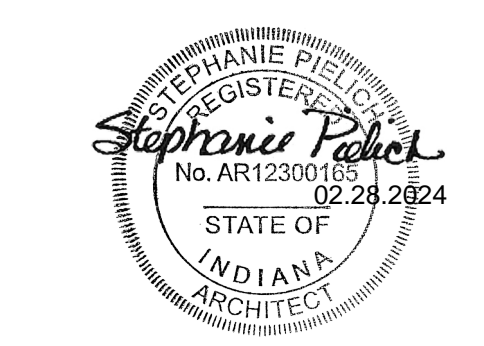
**2** DETAIL - WINDOW JAMB @ BRICK WALL  
A3.1



**1** DETAIL - WINDOW SILL @ BRICK WALL  
A3.1



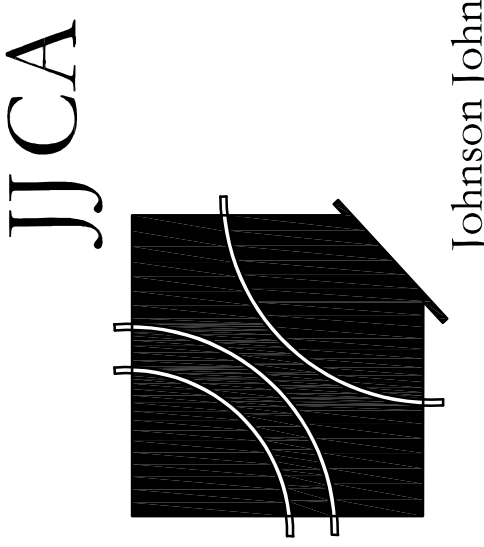
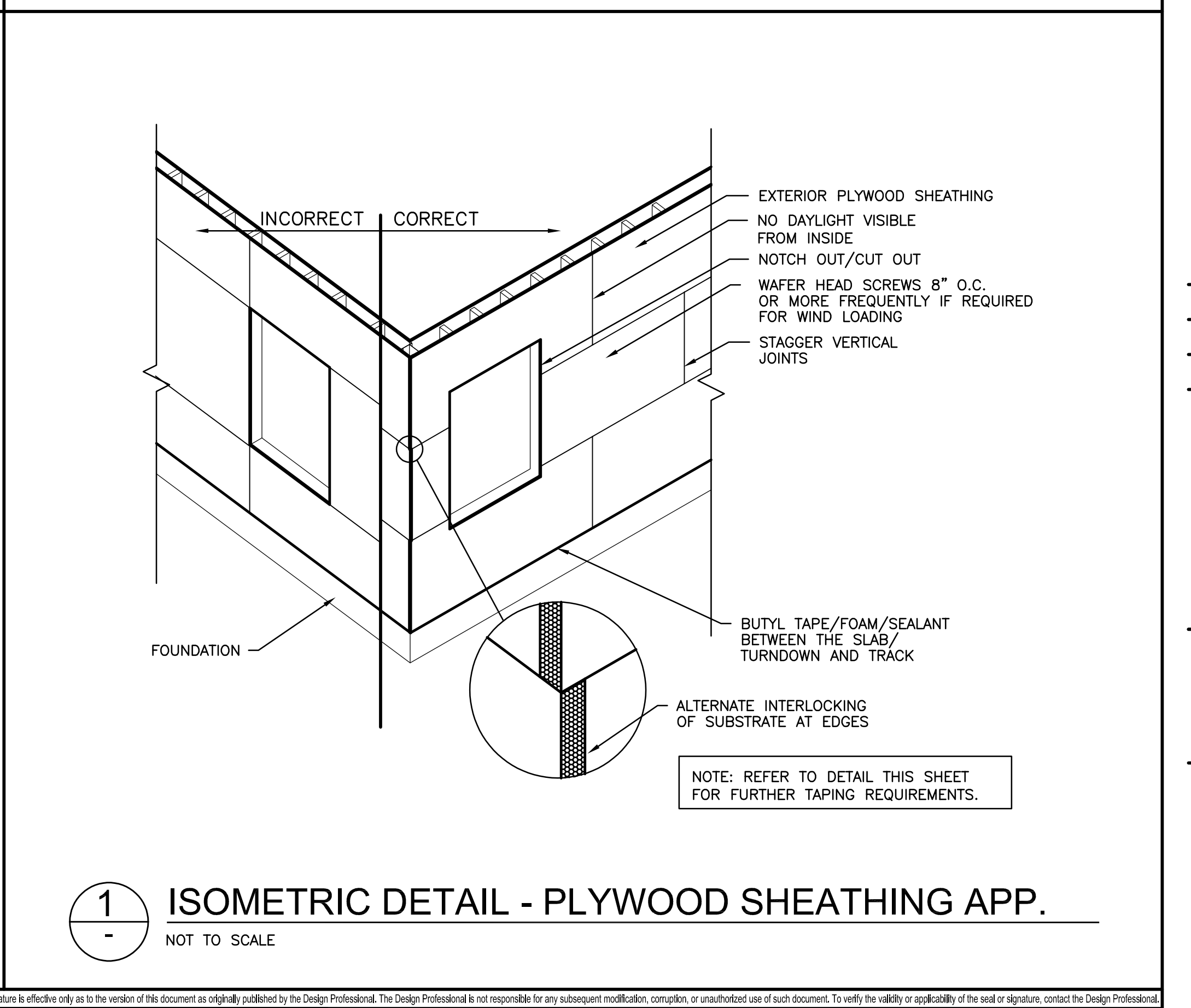
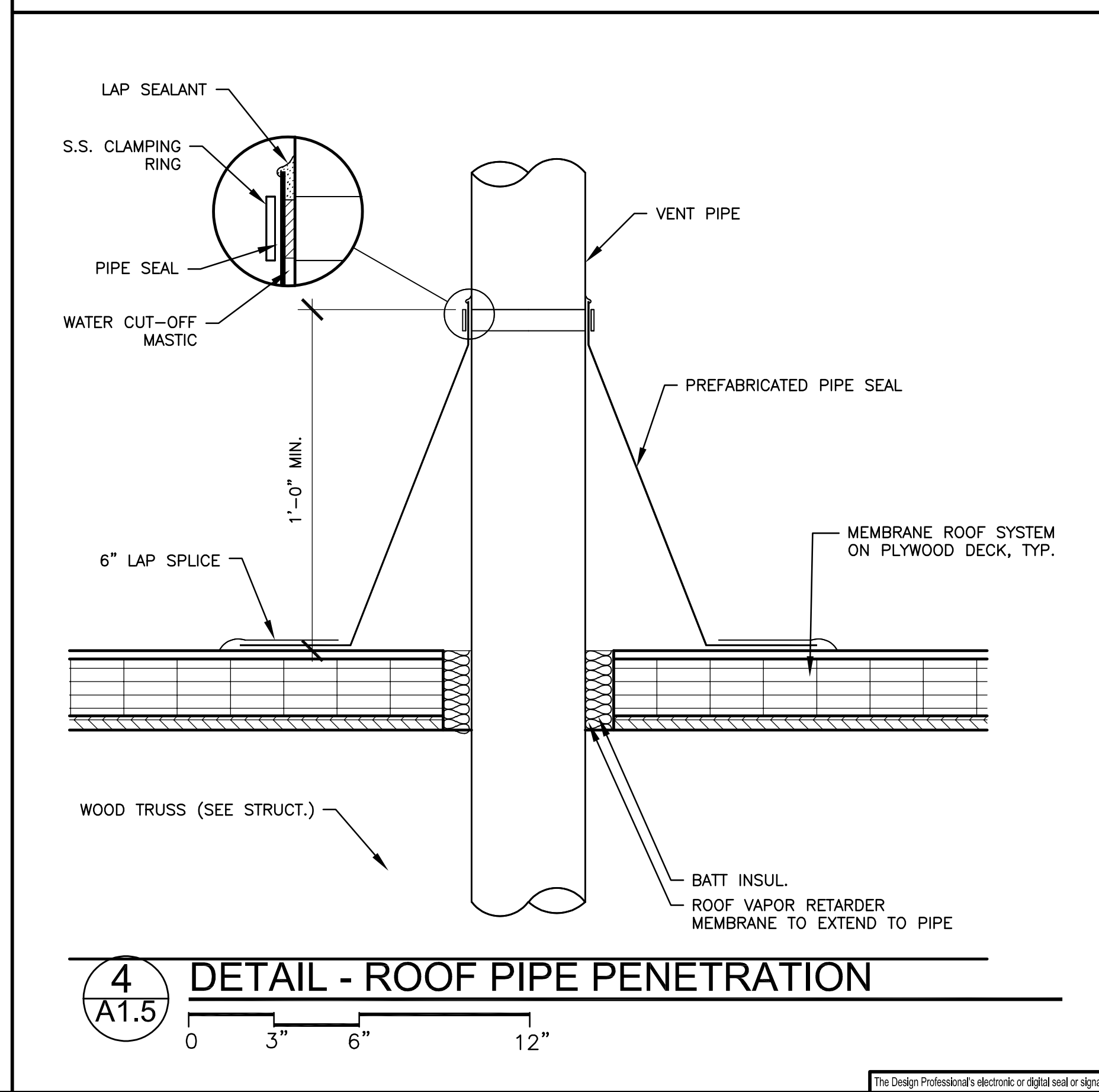
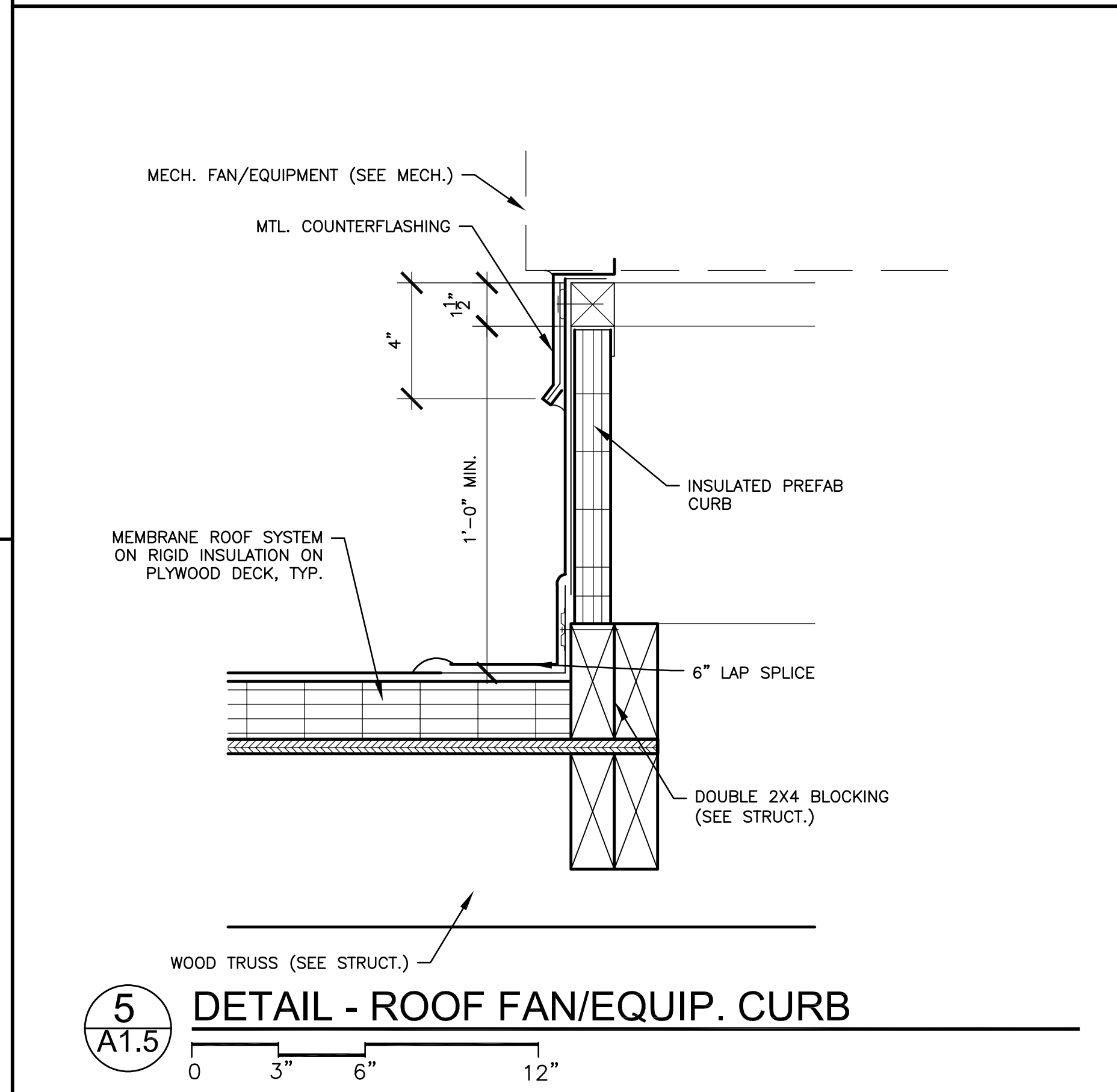
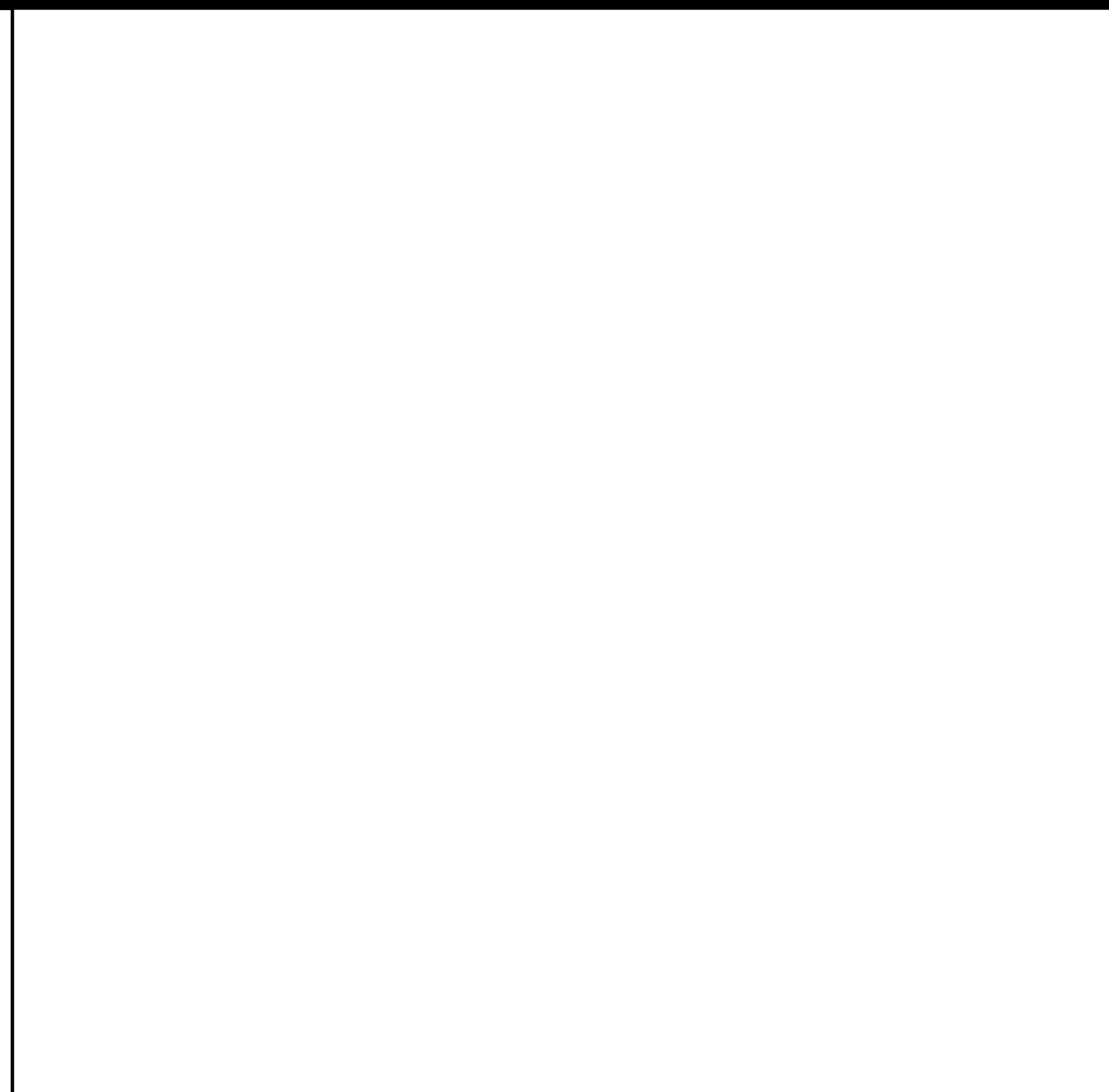
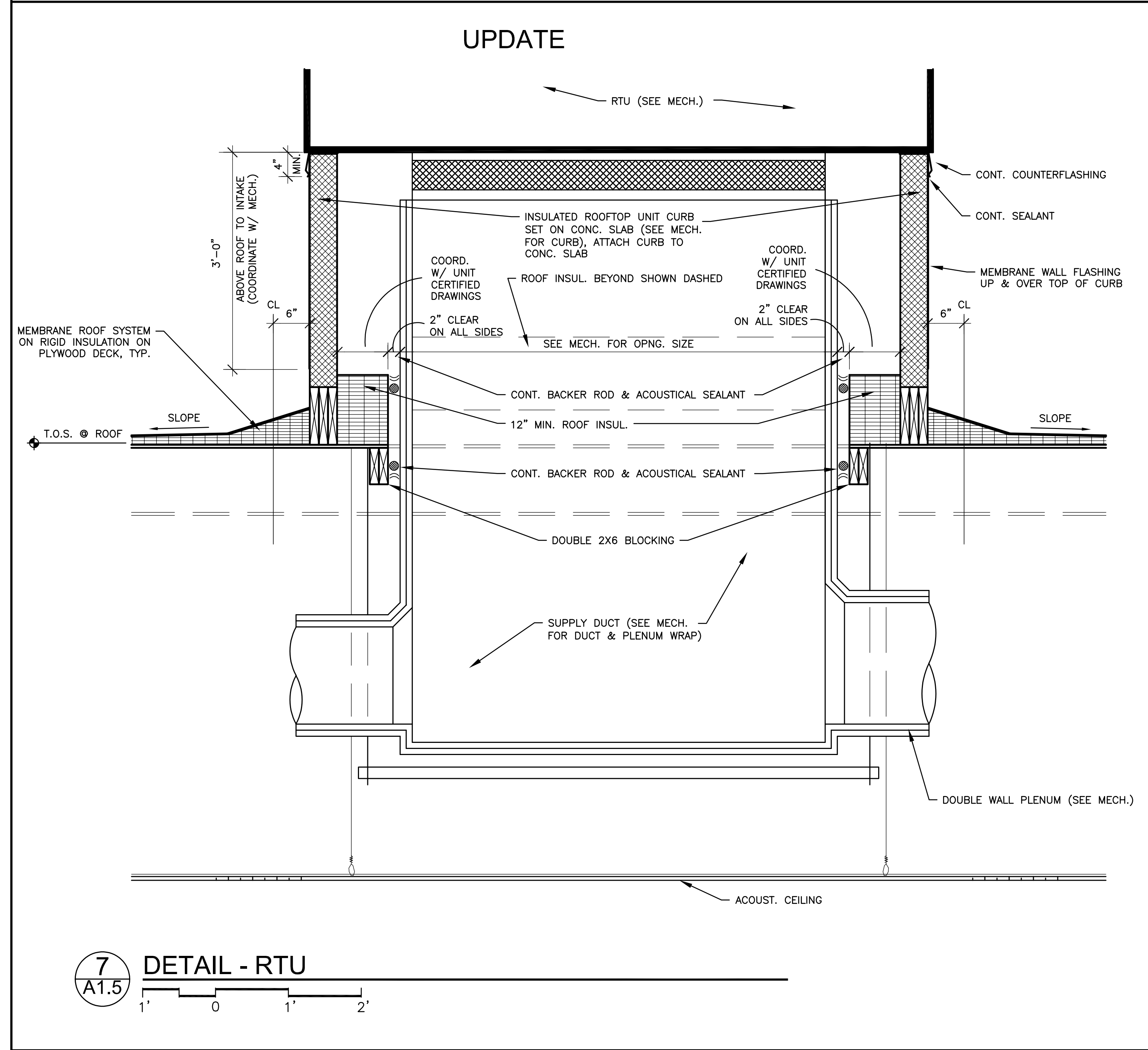
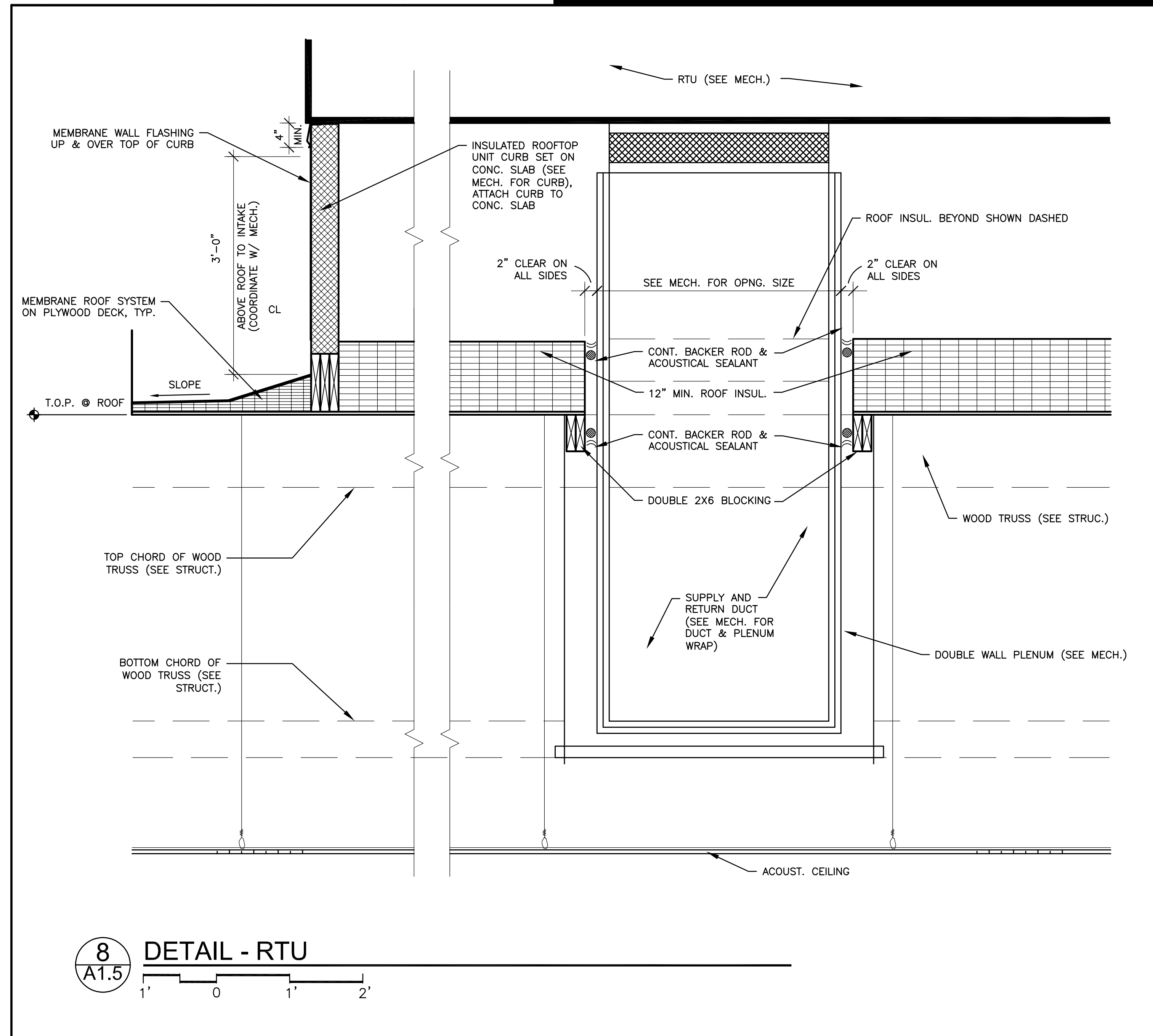
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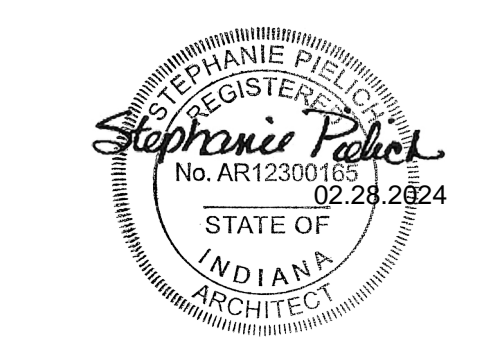
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**A4.5**  
WALL DETAILS



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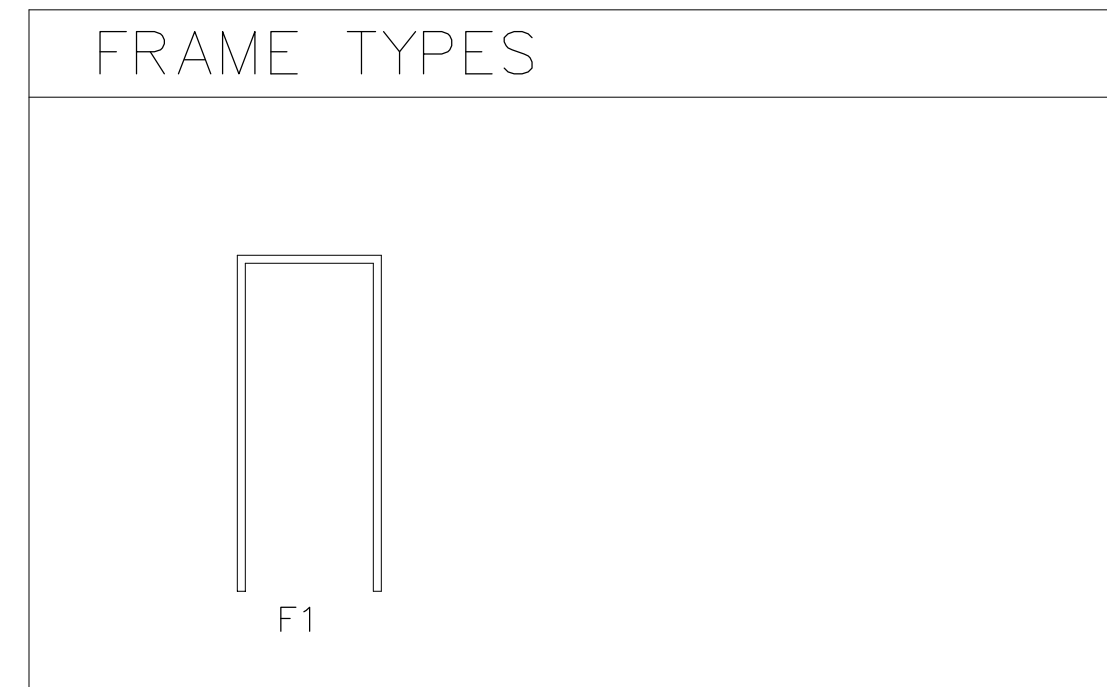
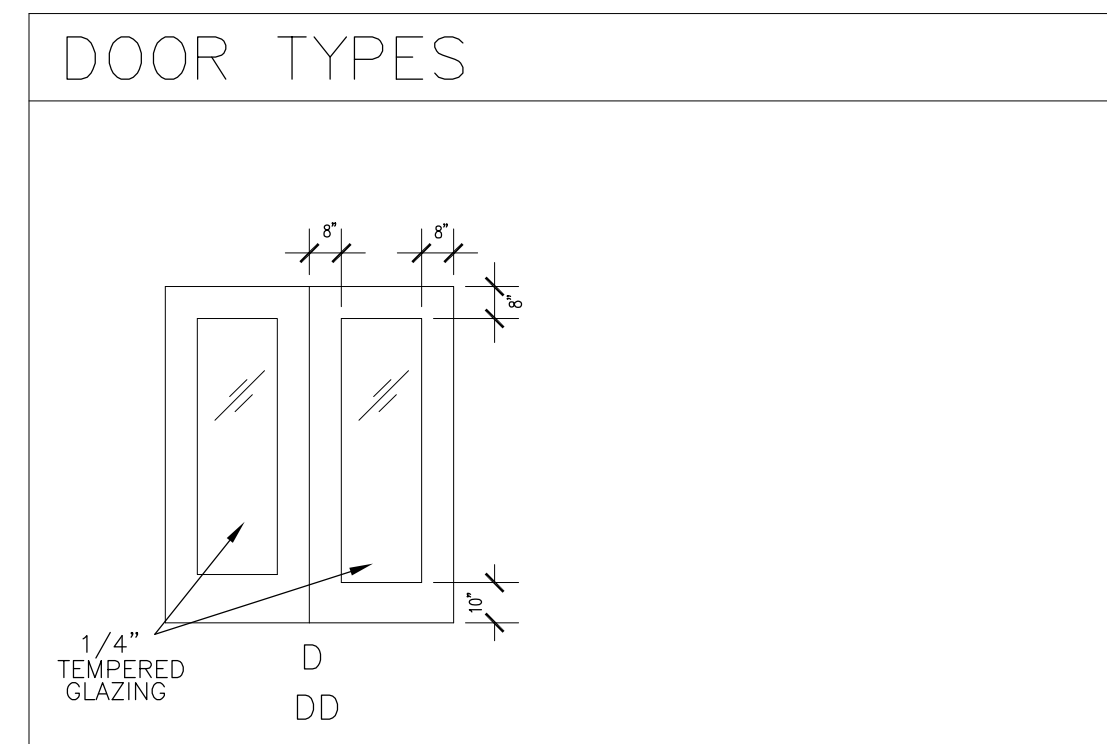
PROJECT NUMBER  
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DATE  
**February 28, 2024**

**A4.10**  
DETAILS





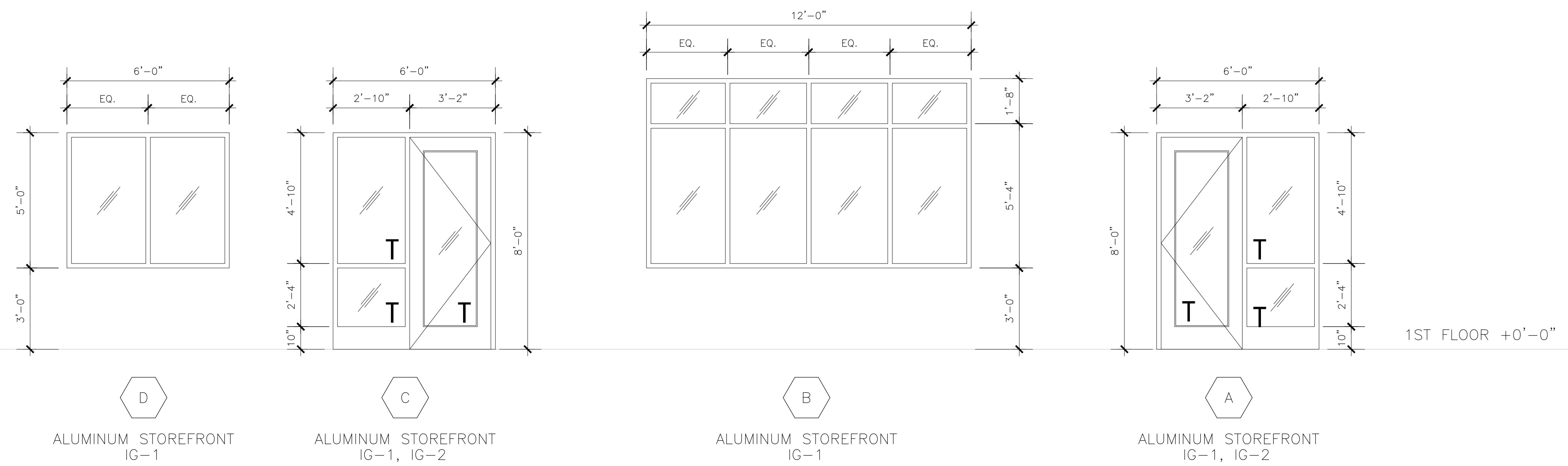
DOOR SCHEDULE — FLOOR												*SEE WINDOW ELEVATION
NUMBER	TYPE	MATL	WIDTH	HEIGHT	FIN	UL	HDW	FTYPE	FMATL	FFIN	REMARKS	
001	—	AL	12'-0" PKG	7'-10" PKG	PF	—	1	—	AL	PF	AUTO SLIDERS	
002	D	AL	3'-0"	7'-10"	PF	—	2	F1	AL	PF	AC	
003	D	AL	3'-0"	7'-10"	PF	—	2	F1	AL	PF	AC	
004	D	AL	3'-0"	7'-10"	PF	—	2	F1	AL	PF	AC	
005	D	AL	3'-0"	7'-10"	PF	—	2	F1	AL	PF	AC	
006	D	AL	3'-0"	7'-10"	PF	—	2	F1	AL	PF	AC	



**LEGEND - WINDOW ELEVATIONS**

T TEMPERED GLAZING

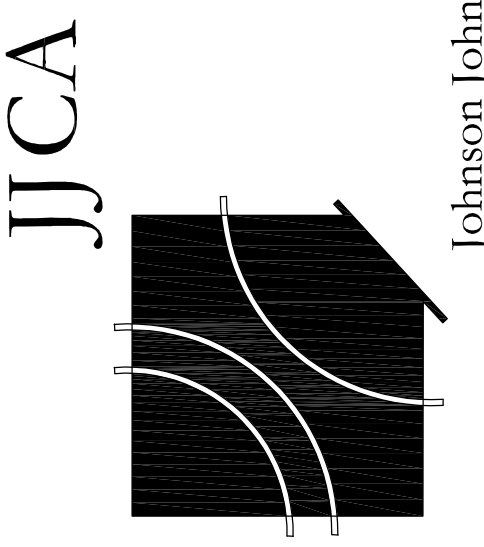
HEAD, JAMB AND SILL DETAIL NOTES:  
 1. REFER TO DETAILS ON SHEET A4.5 FOR TYPICAL EXTERIOR ALUMINUM STOREFRONT WINDOW DETAILS.  
 2. ALL MULLIONS TO BE 2" THICK, U.N.O.



1ST FLOOR +0'-0"

**EXTERIOR WINDOW ELEVATIONS**

TYPICAL SCALE THIS SHEET UNLESS NOTED OTHERWISE



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 Sullivan, Indiana



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**A6.1**  
 DOOR SCHEDULE & WINDOW ELEVATIONS



## STRUCTURAL GENERAL NOTES

### DESIGN AND CODE INFORMATION

- ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2012 IBC w/ 2014 INDIANA AMENDMENTS.
- VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH CONFLICT WITH OTHER PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DRAWINGS ARE NOT INTENDED FOR BUILDING LAYOUT.
- SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS, VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. SUBMIT PDF COPIES OF REVIEWED DRAWINGS FOR ENGINEER'S REVIEW. ONLY PDF SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
- COMPLETE SHOP DRAWINGS AND CALCULATIONS FOR COMPONENTS NOT DESIGNED BY THE ENGINEER OF RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE AND SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING FABRICATION, INCLUDING BUT NOT LIMITED TO THE FOLLOWING COMPONENTS:

#### (X) WOOD TRUSSES

5. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED. CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED. THE STEEL DECK ATTACHED TO THE STEEL FRAMING, AND THE CONCRETE FLOORS PLACED AND ATTAINS 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

6. DO NOT SCALE STRUCTURAL DRAWINGS, AND FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

#### 7. DEAD LOADS:

SELF-WEIGHT OF STRUCTURE  
ROOF: 20 PSF

#### 8. LIVE LOADS:

OFFICES: 100 PSF (INCLUDING PARTITIONS) REDUCIBLE PER CODE  
ROOFS: 20 PSF (REDUCIBLE PER CODE)

#### 9. ROOF LOADS:

GROUND SNOW LOAD: 20 PSF  
SNOW EXPOSURE Co: 1.0  
SNOW IMPORTANCE I: 1.0  
THERMAL FACTOR Ct: 1.0  
FLAT ROOF SNOW LOAD: 20 PSF

#### 10. WIND LOADS:

BASIC WIND SPEED: CATEGORY II BASIC WIND SPEED 106 MPH  
WIND EXPOSURE FACTOR: C  
INTERNAL PRESSURE COEFFICIENT: ± 0.18  
CLADDING LOAD: SEE DIAGRAMS ON S0.1

#### 11. RAIN LOADS:

DESIGN LOAD: 20 PSF

#### 12. SEISMIC LOADS:

RISK CATEGORY: II  
SEISMIC IMPORTANCE Ie: 1.0  
2 SEC SPECTRAL RESPONSE ACCELERATION Sa: 0.358  
1.0 SEC SPECTRAL RESPONSE ACCELERATION S1: 0.133  
SITE CLASS: C  
DESIGN SPECTRAL RESPONSE SDS: 0.316  
DESIGN SPECTRAL RESPONSE SD1: 0.134  
SEISMIC DESIGN CATEGORY: C  
RESISTING SYSTEM: LIGHT-FRAMED WOOD WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR WITH WOOD  
RESPONSE MODIFICATION FACTOR Fe: 6.5  
SEISMIC RESPONSE COEFFICIENT Cs: 0.016  
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE  
BASE SHEAR: 50 kips

### SPECIAL INSPECTIONS AND TESTING

- THE CONTRACTOR/OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM SITE INSPECTIONS AND TESTING IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN SHEET S0.2.
- THE CONTRACTOR/OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM THE FOLLOWING FABRICATION INSPECTIONS AND TESTING PER SECTION 1704.2.5.1:  
  
WOOD TRUSSES IF FABRICATOR IS NOT TPI CERTIFIED

### STRUCTURAL OBSERVATIONS

- THE ENGINEER OF RECORD HAS BEEN EMPLOYED TO PERFORM PERIODIC VISUAL OBSERVATIONS OF THE STRUCTURE DURING CONSTRUCTION FOR GENERAL CONFORMANCE TO THE DESIGN DRAWINGS.

### FOUNDATION NOTES

- FOUNDATION DESIGN IS BASED ON A REPORT FROM TTL DATED 11-13-2023. REPORT # 000230802085.00
- FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 2000 PSF (ISOLATED FOOTINGS) 1500PSF (CONTINUOUS FOOTINGS).
- THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 2'-0" MINIMUM BELOW FINISHED GRADE.
- WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3-INCH-THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.
- WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

### REINFORCED CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. (ACI 318).
- REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).
- MATERIAL PROPERTIES – CONCRETE:

	Class Exposure	F'c psi at 28 days	Max. W/C Ratio	Max.* Slump Inches	Total Air Content (±1.5%)	Nom. Max. Aggregate Size
3.1 Cast-in-place concrete						
a. Footings	C1	4,000	0.50	4	No test	2"
b. Slab on grade						
Int. Slab		4,000	0.45	4	No test	1"
Ext. Slab	F1, C2	5,000	0.40	4	6	1"
c. All other		4,000	0.45	4	5	3/4"
d. Concrete fill on metal deck (Lightweight & Normal)		4,000	0.45	4	4-7	3/4"
3.2. Other concrete						
a. Masonry wall Grout fill		2,000		8-10	No test	3/8"

\*Prior to adding water reducer

4. EXPOSURE CLASS SHALL BE FO, SO, PO, AND CO PER ACI 318 UNO.

5. LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE.

6. THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.

7. CLEAR CONCRETE COVER FOR REINFORCING STEEL:

MASONRY WALLS:	LOCATE IN CENTER OF WALL (UNO)
SLAB ON GRADE:	3/4" TOP STEEL 1 1/2" BOTTOM STEEL
FOOTINGS:	2" FORMED EDGES 3" CAST AGAINST GROUND

8. CONCRETE WALLS AND SLABS SHALL BE REINFORCED AROUND ALL OPENINGS WITH 3-45 BARS IN EACH FACE, ON ALL SIDES AND EXTENDED 2'-0" BEYOND THE OPENING, UNLESS SHOWN OTHERWISE.

9. MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.

10. CHAMFER EXPOSED CORNERS OF BEAMS, COLUMNS AND WALLS 3/4 INCH.

11. UNLESS OTHERWISE DIRECTED BY THE OWNER, CONCRETE SLABS SHALL BE FINISHED TO THE FOLLOWING FLATNESS CRITERIA. THESE FLOOR FLATNESS CRITERIA ARE NOT APPLICABLE TO COMPOSITE STEEL CONSTRUCTION. SEE ARCHITECTURAL REQUIREMENTS FOR ADDITIONAL FLOOR FINISH INFORMATION:

SPECIFIED OVERALL F NUMBERS	FLATNESS FF = 35 LEVEL FL = 25
MINIMUM LOCAL F NUMBERS	FLATNESS FF = 24 LEVEL FL = 17

12. COORDINATE ALL VAPOR RETARDERS, VAPOR BARRIERS, AND WATERPROOFING OF CONCRETE SLABS-ON-GRADE AND CONCRETE WALLS WITH FINISH MATERIAL REQUIREMENTS AND ARCHITECTURAL SPECIFICATIONS.

### CONCRETE MASONRY

- MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530/TMS 402 AND ACI 530.1/TMS 602.
- CONCRETE MASONRY SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS, AND HAVE A DENSITY OF 125 PCF AND SHALL HAVE A MINIMUM PRISM STRENGTH (FM) OF 2000 PSI.
- GROUT FOR FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR MORTAR AND GROUT FOR REINFORCED MASONRY, ASTM C-476, AND SHALL HAVE A COMPRESSIVE PRISM STRENGTH (FM) OF 2000 PSI AT 28 DAYS. THE SLUMP SHALL BE BETWEEN 8 INCHES AND 11 INCHES. WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3 INCHES OR LESS, USE FINE GROUT, OTHERWISE USE COARSE (PEA GRAVEL) GROUT.
- MORTAR FOR CONCRETE MASONRY SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C-270.
- ALL REINFORCING BARS IN FILLED CELLS SHALL BE DOWELED INTO FOOTINGS WITH STANDARD 90-DEGREE HOOKS.
- MASONRY LAP SPLICES SHALL BE 48 BAR DIAMETERS (U.N.O.)
- REINFORCEMENT IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL

### WOOD TRUSSES

- ROOF TRUSSES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS:

TOP CHORD: 12 PSF DEAD LOAD  
20 PSF LIVE LOAD

BOTTOM CHORD: 8 PSF DEAD LOAD

- IN ADDITION TO THE UNIFORM LOADING SPECIFIED FOR TRUSS DESIGN, THE TRUSS SUPPLIER SHALL INCLUDE ANY CONCENTRATED LOADS CAUSED BY ARCHITECTURAL FEATURES OR MECHANICAL EQUIPMENT IN THE TRUSS DESIGN.
- SEE ARCHITECTURAL DRAWINGS FOR BEARING CONDITIONS AND DIMENSIONS OF TRUSSES.

- A REGISTERED ENGINEER IN THE PROJECT STATE SHALL DESIGN TRUSSES. SHOP DRAWINGS, INCLUDING INDIVIDUAL TRUSS DESIGNS, PLAN LAYOUT, ALL TEMPORARY BRACING AND PERMANENT TRUSS MEMBER BRACING BEARING THE ENGINEERS SEAL SHALL BE SUBMITTED FOR REVIEW.

- TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE TRUSS PLATE INSTITUTE.

- UNLESS NOTED OTHERWISE ON DRAWINGS, TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR DESIGNING AND SUPPLYING OR SPECIFYING ALL TEMPORARY BRACING AND PERMANENT INDIVIDUAL TRUSS MEMBER BRACING REQUIRED BY DESIGN, ALL TRUSS-TO-TRUSS CONNECTIONS, AND ALL UPLIFT CONNECTIONS AT BEARING LOCATIONS. ALL PERMANENT BRACING OF TRUSS MEMBERS SHALL BE CONTINUOUS AND BE ATTACHED TO AN END-WALL STUD OR HIP-TRUSS TOP CHORD WITH 2 #16D COMMON NAILS.

- FIELD REPAIR OF DAMAGED TRUSSES MUST BE APPROVED IN WRITING BY THE TRUSS ENGINEER AND ENGINEER OF RECORD.

- ALL ROOF TRUSS BEARING WALLS SHALL HAVE METAL FASTENERS TO RESIST UPLIFT FORCES AS NOTED ON ROOF FRAMING PLANS OR AS REQUIRED BY THE TRUSS ENGINEER.

- TRUSS SUPPLIER IS TO PROVIDE PLAN AND PROCEDURES FOR INSTALLING, SECURING, AND BRACING OF ALL TRUSSES.

- TRUSS SUPPLIER SHALL PROVIDE TRUSS BLOCKS CAPABLE OF TRANSFERRING LATERAL LOADS AS NOTED ON PLANS AND/OR DETAILS.

- TRUSS MANUFACTURER TO COORDINATE WITH MECH./PLUMBING DRAWINGS FOR ADDITIONAL CONCENTRATED LOADS DUE TO DOMESTIC WATER AND SPRINKLER PIPE SUPPORTS.

- TRUSS MANUFACTURER SHALL COORDINATE TRUSS LAYOUT WITH MECH./PLUMBING DRAWINGS TO ALLOW ALL PIPES AND DUCTS ADEQUATE SPACE FOR PROPER INSTALLATION.

- PRE-ENGINEERED METAL PLATE CONNECTED WOOD TRUSSES SHALL BE BRACED IN INFORMATION BOOKLET, BCSI 1-03' AND RELATED SUMMARY SHEETS.

### LUMBER FRAMING

- ALL NON-PREFABRICATED LOAD BEARING FRAMING MEMBERS SHALL BE #2 SOUTHERN YELLOW PINE 19% MOISTURE CONTENT UNLESS OTHERWISE NOTED.

- STUDS IN LOAD BEARING WALLS MAY BE DOUGLAS FIR, SOUTHERN YELLOW PINE OR SPRUCE (#2), UNLESS NOTED OTHERWISE.

- CONTRACTOR TO PROVIDE TEMPORARY WALL BRACING UNTIL ALL PLYWOOD DECKING, ROOF TRUSSES, AND SHEAR WALLS ARE INSTALLED.

- ALL PLYWOOD SHEATHING SHALL BE APA RATED, SEE PLAN.

- THE ALLOWABLE STRESSES FOR FIRE RETARDANT TREATED LUMBER SHALL BE REDUCED 10%.

- LVL AND PSL LUMBER SHALL BE MICROLAM OR PARALLAM LUMBER AS MANUFACTURED BY WEYERHAEUSER, OR EQUAL.

- LVL MEMBERS SHALL BE (MIN): E=2800 PSI, Fv=285 PSI, E=1,900,000 PSI PSL BEAMS SHALL BE (MIN): E=2900 PSI, Fv=290 PSI, E=2,000,000 PSI

- WALLS MUST HAVE BLOCKING BETWEEN STUDS AT MAXIMUM SPACING OF 6'-3" OR AT PANEL EDGES. THE BLOCKING MUST BE 2" IN THICKNESS AND MATCH THE STUD WIDTH.

### POST-INSTALLED ANCHORS

- UNLESS NOTED OTHERWISE, POST-INSTALLED CONCRETE ANCHORS SHALL COMPLY WITH ICC-ES ACCEPTANCE CRITERIA FOR ANCHORS IN CRACKED CONCRETE AND SEISMIC APPLICATIONS.

- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS UNLESS APPROVED OTHERWISE BY THE ENGINEER.

- PLACE POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR AND EMBEDS.

- DRILL AND PREPARE HOLES AND INSTALL ANCHORS IN ACCORDANCE WITH EVALUATION REPORTS.

- POST-INSTALLED ANCHORS SHALL BE INSPECTED BY A QUALIFIED SPECIAL INSPECTOR IN ACCORDANCE WITH THE PROJECT STATEMENT OF SPECIAL INSPECTION AND THE ICC-ES REPORT.

- MECHANICAL ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 308.2 AND ICC-ES 193. ACCEPTABLE MECHANICAL ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:

HILTI KWIK BOLT T22 (ICC-ES ESR 1917)  
HILTI KWIK HUS-EZ (ICC-ES ESR 3027)  
SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC-ES ESR 3037)  
SIMPSON STRONG-TIE TITEN-HD (ICC-ES ESR-2713)  
DEWALT POWER – STUD + SP2 (ICC ESR-2713)  
DEWALT SCREW-BOLT + (ICC ESR-3889)

- ADHESIVE ANCHORS, INCLUDING REBAR, FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 308.2 AND ICC-ES 3187. ACCEPTABLE ADHESIVE ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:

HILTI HIT RE 500 V3 (ICC-ESR 3814)  
HILTI HIT-HY 200 ANCHOR RODS AND REINFORCING BAR (ICC-ES ESR 3187)  
SIMPSON STRONG-TIE SET-XP (ICC-ES ESR 2508)  
DEWALT PURE 110 + (ICC ESR-3298)

## STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS/QUALITY ASSURANCE PROGRAM

### GENERAL:

THIS STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE STRUCTURAL TESTING AND INSPECTION OF THE WORK REQUIRED BY CHAPTER 17 OF THE BUILDING CODE THAT IS WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR OTHER BUILDING COMPONENTS.

### CONTRACTOR RESPONSIBILITIES:

THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE ARCHITECT A WRITTEN STATEMENT OF RESPONSIBILITY THAT CONTAINS THE FOLLOWING:

- ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THIS STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS.
- ACKNOWLEDGEMENT THAT CONTROL SHALL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
- PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
- IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

THE STRUCTURAL TESTING/INSPECTION AGENCY THAT IS TO ACT AS THE SPECIAL INSPECTOR WILL BE HIRED BY THE OWNER, BUT CONTRACTOR SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR WORK OR MATERIALS NOT COMPLYING WITH THE CONSTRUCTION DOCUMENTS DUE TO NEGLIGENCE OR NONCONFORMANCE AND SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR HIS CONVENIENCE.

CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SPECIAL INSPECTOR IS PRESENT FOR ALL WORK REQUIRING SPECIAL INSPECTION, ANY WORK THAT REQUIRES SPECIAL INSPECTION AND IS PERFORMED WITHOUT THE SPECIAL INSPECTOR BEING PRESENT IS SUBJECT TO BEING DEMOLISHED AND RECONSTRUCTED.

### CONTRACTOR HAS THE FOLLOWING RESPONSIBILITIES TO THE SPECIAL INSPECTOR:

- PROVIDE COPY OF CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR.
- NOTIFY THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS.
- COOPERATE WITH SPECIAL INSPECTOR AND PROVIDE ACCESS TO WORK.
- PROVIDE SAMPLES OF MATERIALS TO BE TESTED IN REQUIRED QUANTITIES.
- PROVIDE STORAGE SPACE FOR THE SPECIAL INSPECTOR'S EXCLUSIVE USE, SUCH AS FOR STORING AND CURING CONCRETE TESTING SAMPLES.
- PROVIDE LABOR TO ASSIST THE SPECIAL INSPECTOR IN PERFORMING TESTS/INSPECTIONS.

### SPECIAL INSPECTOR'S RESPONSIBILITIES:

THE SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER LICENSED IN AND PRACTICING IN THE STATE OF INDIANA. SPECIAL INSPECTORS SHALL BE A LICENSED ENGINEER IN THE STATE OF INDIANA OR IS PERFORMING APPROPRIATE DUTIES DIRECTLY UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF INDIANA AND HAS A THOROUGH UNDERSTANDING OF THE SPECIAL INSPECTION REQUIREMENTS OF THE 2012 IBC. THE SPECIAL INSPECTOR SHALL BE AN INDIVIDUAL OR INDIVIDUALS CERTIFIED OR EXPERIENCED TO PERFORM SUCH INSPECTIONS IN A PARTICULAR FIELD.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. PERIODIC REPORTS SHALL BE PROVIDED AND SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED TO THE SATISFACTION OF THE SPECIAL INSPECTOR, THE DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

A WEEKLY REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED. AT THE COMPLETION OF THE SPECIAL INSPECTIONS, THE LICENSED PROFESSIONAL ENGINEER IN CHARGE OF PERFORMING THE SPECIAL INSPECTION SHALL CERTIFY THE FINAL SPECIAL INSPECTION REPORT AND AFFIX HIS/HER SEAL TO THE SPECIAL INSPECTOR'S FINAL REPORT. PROVIDE THREE (3) COPIES OF THIS REPORT, TWO TO THE ARCHITECT AND ONE TO THE STRUCTURAL ENGINEER OF RECORD.

THE SPECIAL INSPECTOR FOR THIS PROJECT IS AS FOLLOWS:

### SOILS AND FOUNDATIONS:

SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS TO VERIFY THE FOLLOWING:

- STRUCTURAL FILL COMPLIES WITH SPECIFICATIONS AND THE PROJECT GEOTECHNICAL.
- OBSERVE PROOFROLLING.
- PERFORM FIELD DENSITY TEST TO VERIFY COMPACTION OF STRUCTURAL FILL. AS A MINIMUM, PERFORM ONE TEST PER LIFT FOR EVERY 2500 SQUARE FEET OF FILL PLACED.
- FOUNDATION BEARING CAPACITY OF ALL FOOTINGS.

### WOOD CONSTRUCTION:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- SUBMIT CERTIFICATION THAT THE FABRICATOR OF PRE-ENGINEERED WOOD PRODUCTS AND TRUSSES IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHOUT SPECIAL INSPECTIONS.
- IF FABRICATOR IS NOT REGISTERED AND APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.

SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE FOLLOWING:

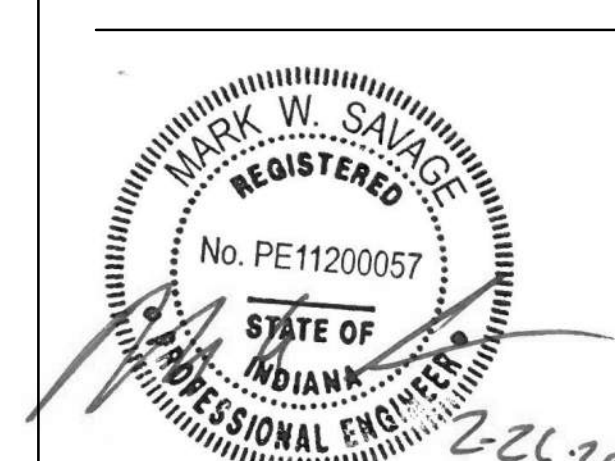
- VISUAL INSPECTION OF WOOD FRAMING TO VERIFY COMPLIANCE WITH DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS AND SHOP DRAWINGS INCLUDING MEMBER SIZES, LOCATIONS, BRACING, CONNECTION DETAILS, NAIL SIZES, NAIL SPACING, ETC.
- VISUAL INSPECTION OF ROOF AND FLOOR DIAPHRAGMS FOR SHEATHING INSTALLATION, BOLTED CONNECTIONS, NAILING PATTERN, BLOCKING, ETC.
- VISUAL INSPECTION OF SHEAR WALLS FOR SHEATHING INSTALLATION, BOLTED CONNECTIONS, NAILING PATTERN, BLOCKING, ETC.

JJCA



Johnson Johnson  
Crabtree Architects

Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
Sullivan, Indiana



Sheet Re-Issue Log  
(Individual revisions clouded and labeled within sheet)

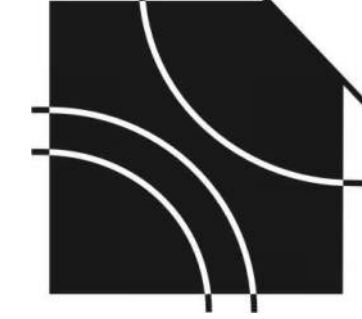
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**23987.02**  
DATE  
**February 28, 2024**

**S0.1**  
GENERAL NOTES & QUALITY ASSURANCE PLAN

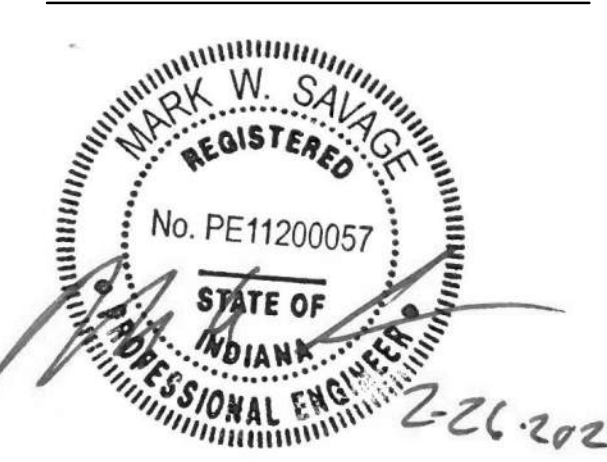


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JJCA



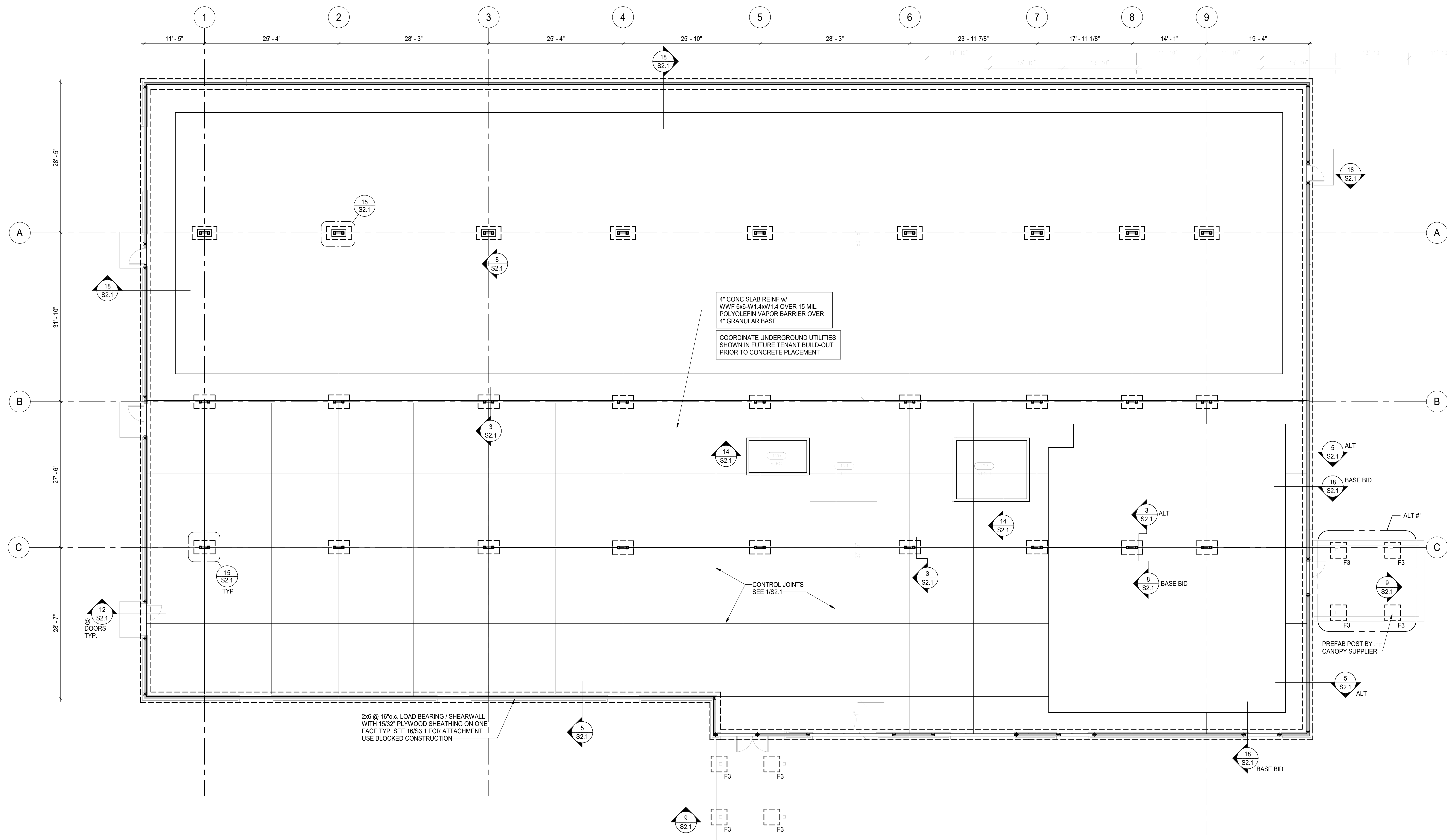
Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
Sullivan, Indiana



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PROJECT NUMBER  
**23987.02**  
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**February 28, 2024**

**S1.1**  
FOUNDATION PLAN



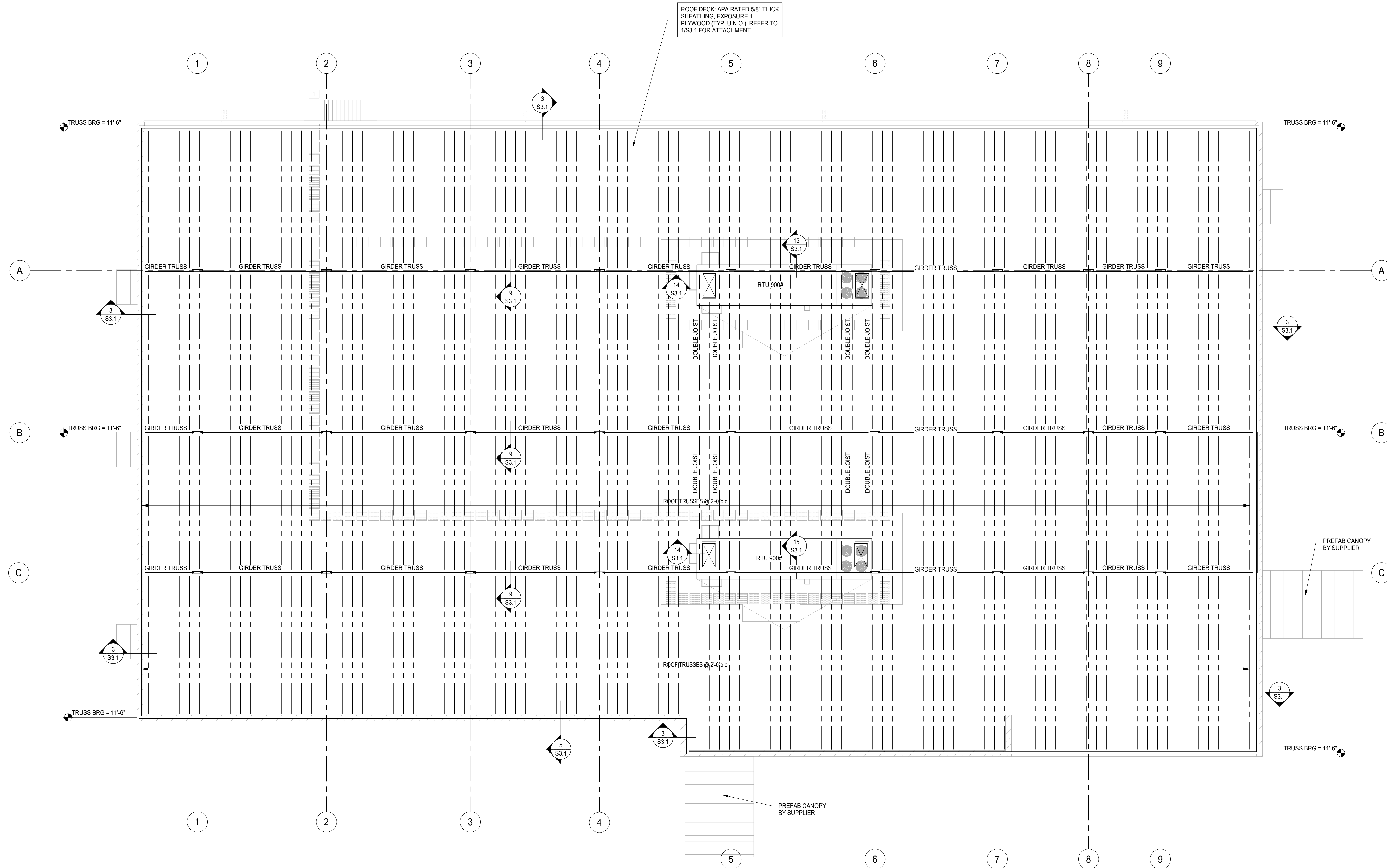
**FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"

- NOTES:
- 1) TOP OF EXTERIOR FTG. = F.F.E. -2'-0" OR 2'-0" BELOW EXTERIOR GRADE WHICHEVER IS LOWER U.N.O.
  - 2) THE CONTRACTOR SHALL COORDINATE ANY UNDER SLAB PIPING, CONDUITS OR ANY UTILITIES PRIOR TO PLACING FOOTINGS. REPORT ANY CONFLICT TO ENGINEER IMMEDIATELY.
  - 3) SEE ARCH. DWG FOR ANY LOCATIONS AND OR DIMENSIONS NOT SHOWN.
  - 4) \* INDICATES SIMPSON HDU-2-SDS2.5 HOLDDOWN.
  - 5) SEE 6&7/S2.1 FOR REINFORCING @ FOOTING INTERSECTIONS.



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**ROOF FRAMING PLAN**

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

- NOTES:
- 1) REFER TO THE T.P.I. "HIB-91 SUMMARY SHEET COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING, & BRACING METAL PLATE CONNECTED WOOD TRUSSES," INCLUDED IN THE DELIVERY PACKAGE.
  - 2) ALL BLOCKING AND BRACING TO BE JOB CUT AND FRAMED.
  - 3) ROOF SHEATHING REQUIRES 1 SIMPSON P.S.C. SHEATHING CLIP BETWEEN TRUSSES AT ALL UNSUPPORTED EDGES. SEE IS1/S3.1 FOR ATTACHMENT.
  - 4) ROOF TRUSSES TO BE DESIGNED PER NOTES ON SHT. S0.1.
  - 5) SEE 12/S3.1 & 2/S2.1 FOR LINTELS.
  - 6) SEE 11/S3.1 FOR TOP PLATE DETAIL.

Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
 Sullivan, Indiana



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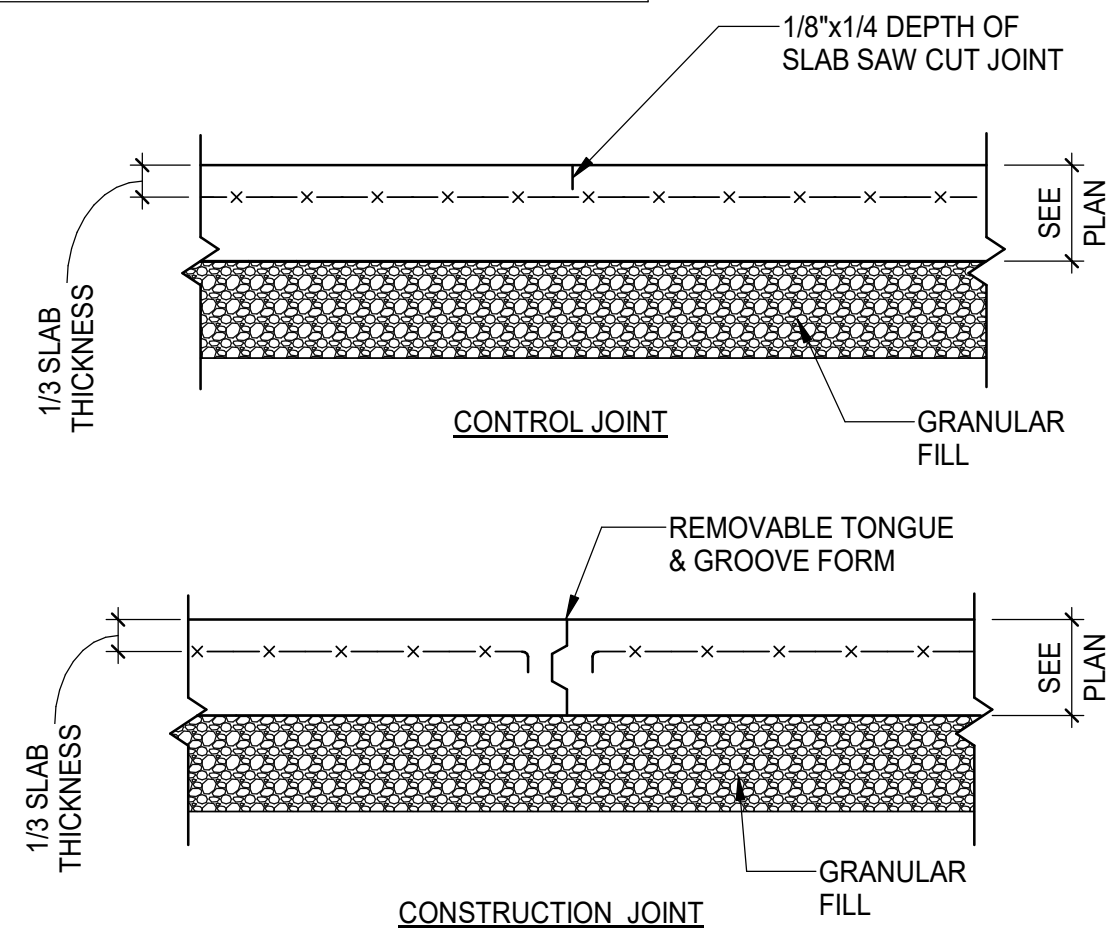
PROJECT NUMBER  
**23987.02**  
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**S1.2**  
 ROOF FRAMING PLAN



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NOTE:  
MAXIMUM JOINT SPACING SHALL BE 20 FT. IN EACH  
DIRECTION UNLESS SHOWN OTHERWISE ON PLAN



**1** TYP SLAB ON GRADE JOINTS  
SCALE: NONE

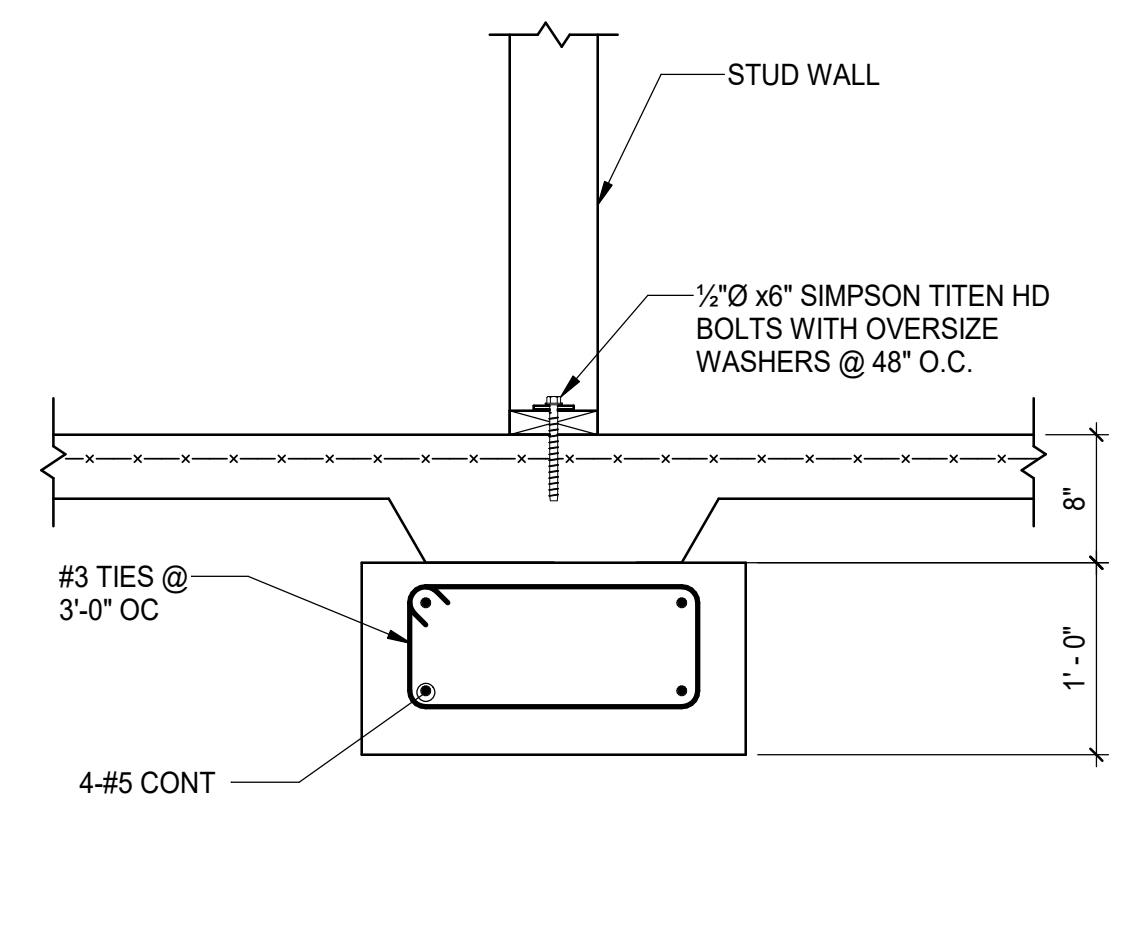
OPENINGS UP TO 6'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
4" VENEER	L4x4x5/16 LOOSE	

OPENINGS 6'-1" TO 8'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
4" VENEER	L6x4x3/8 LOOSE	

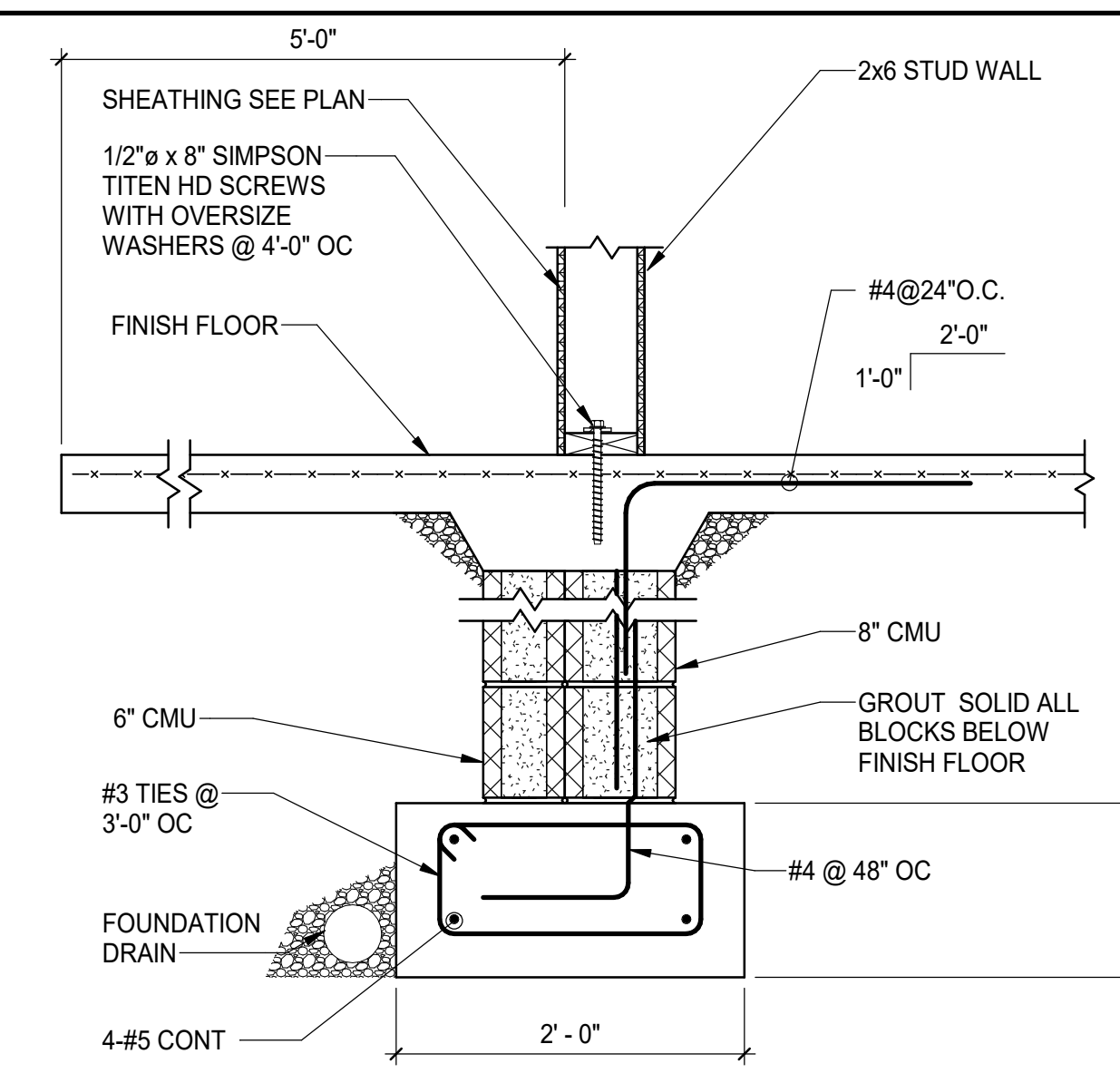
OPENINGS 8'-1" TO 10'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
4" VENEER	L6x4x3/8 LOOSE	

OPENINGS 10'-1" TO 13'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
4" VENEER	L7x4x3/8 LOOSE	

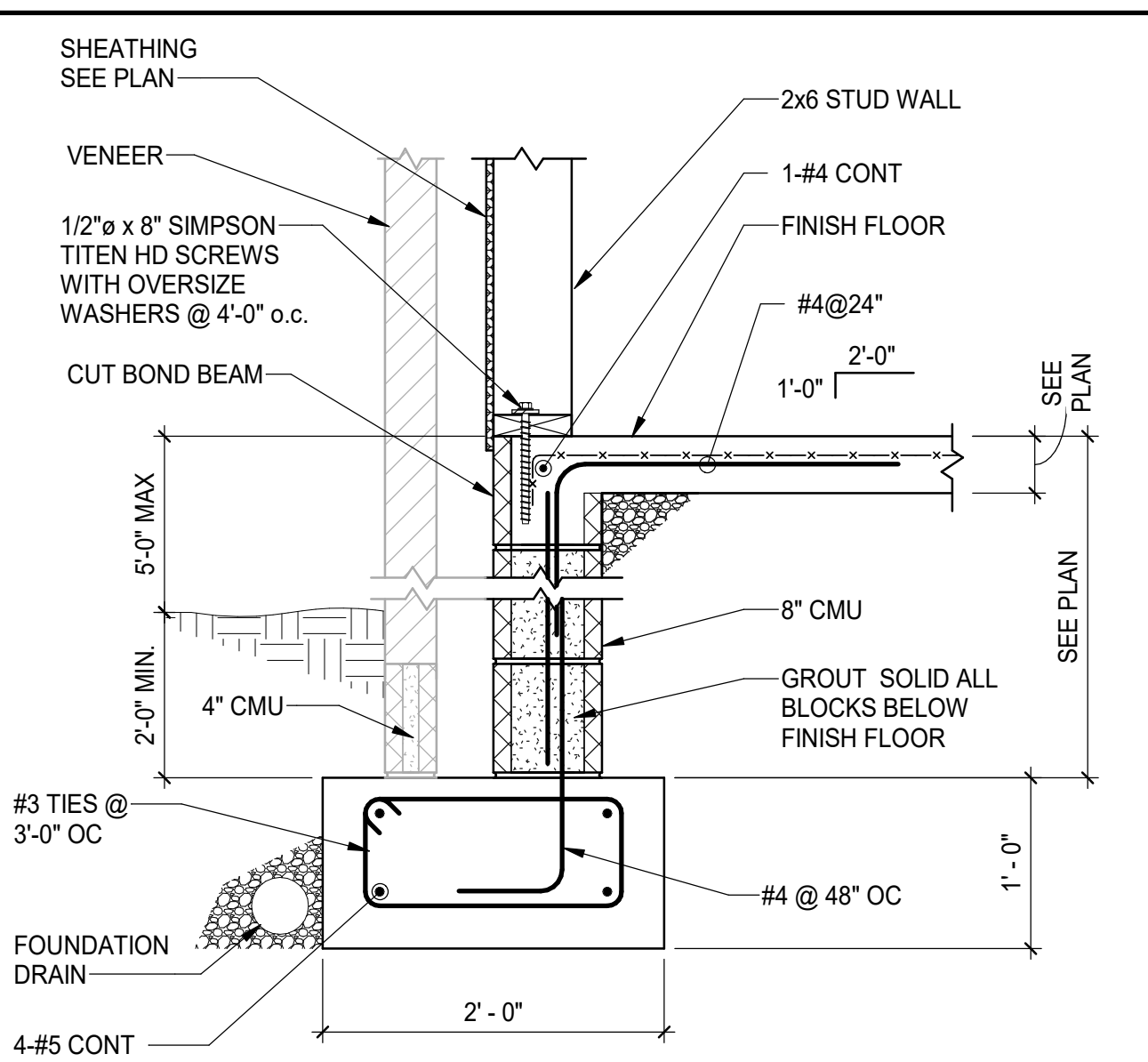
**2** STANDARD LINTEL SCHEDULE  
SCALE: NONE



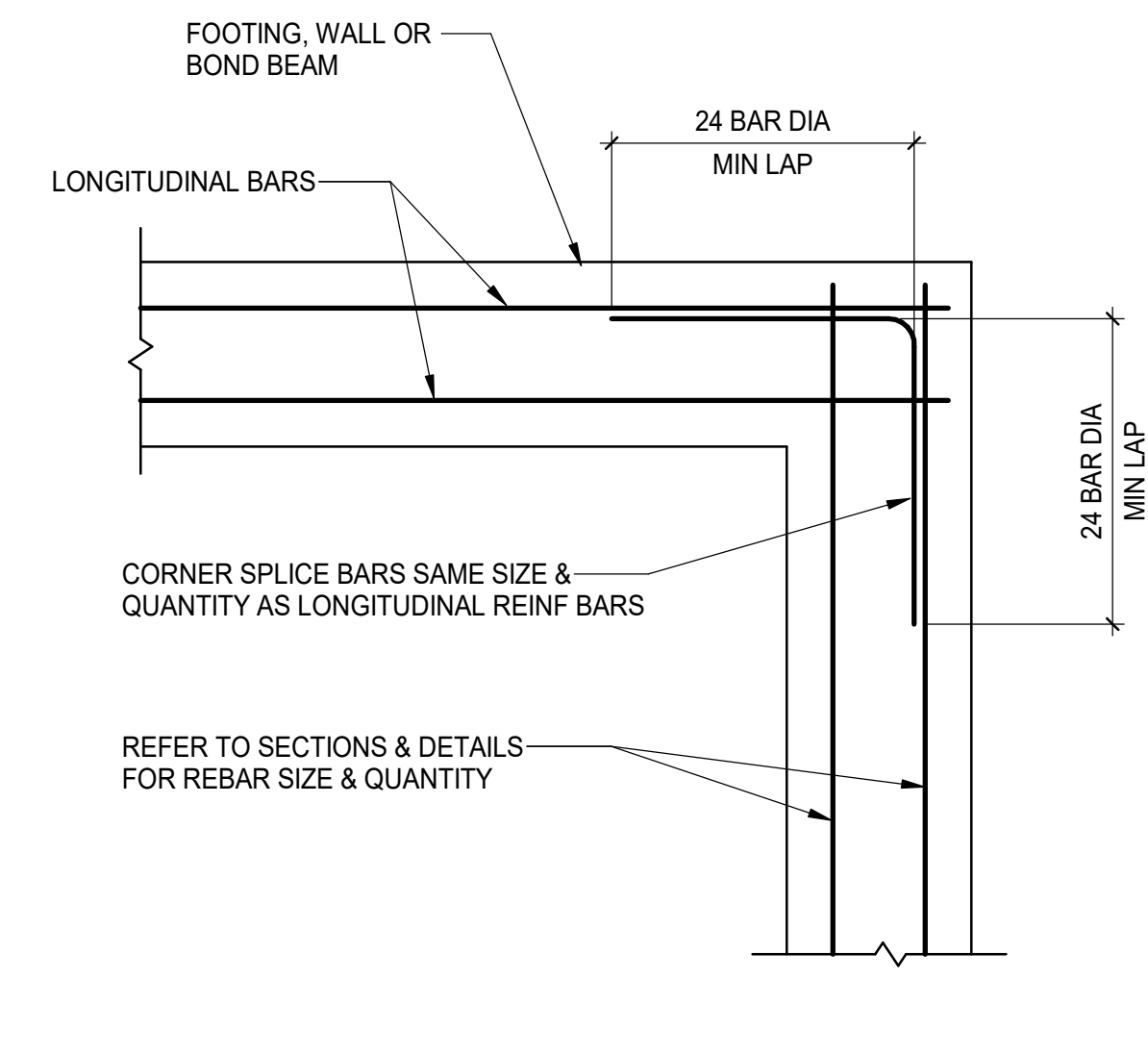
**3** DETAIL THICKENED SLAB  
SCALE: NONE



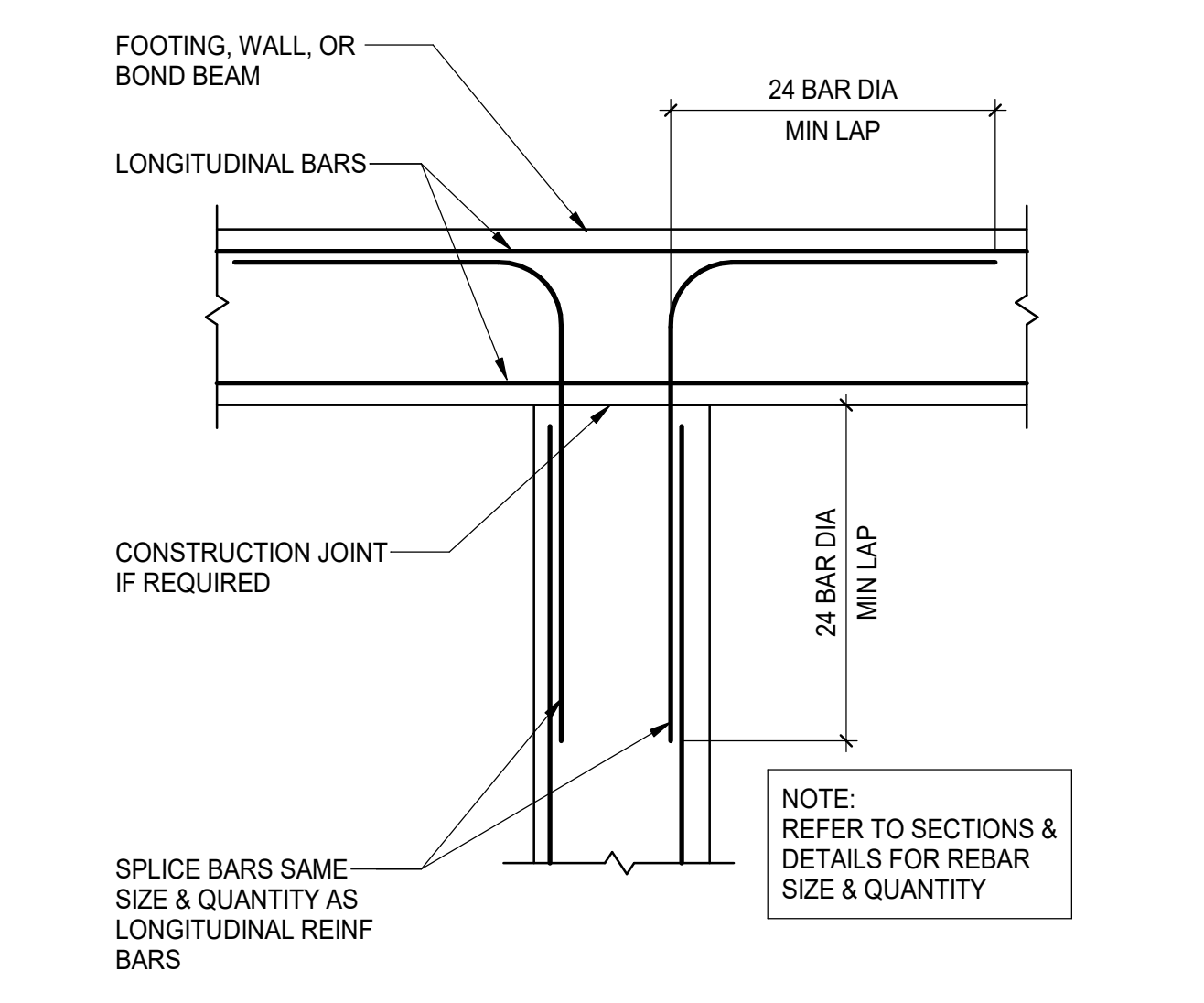
**4** SECTION  
SCALE: NONE



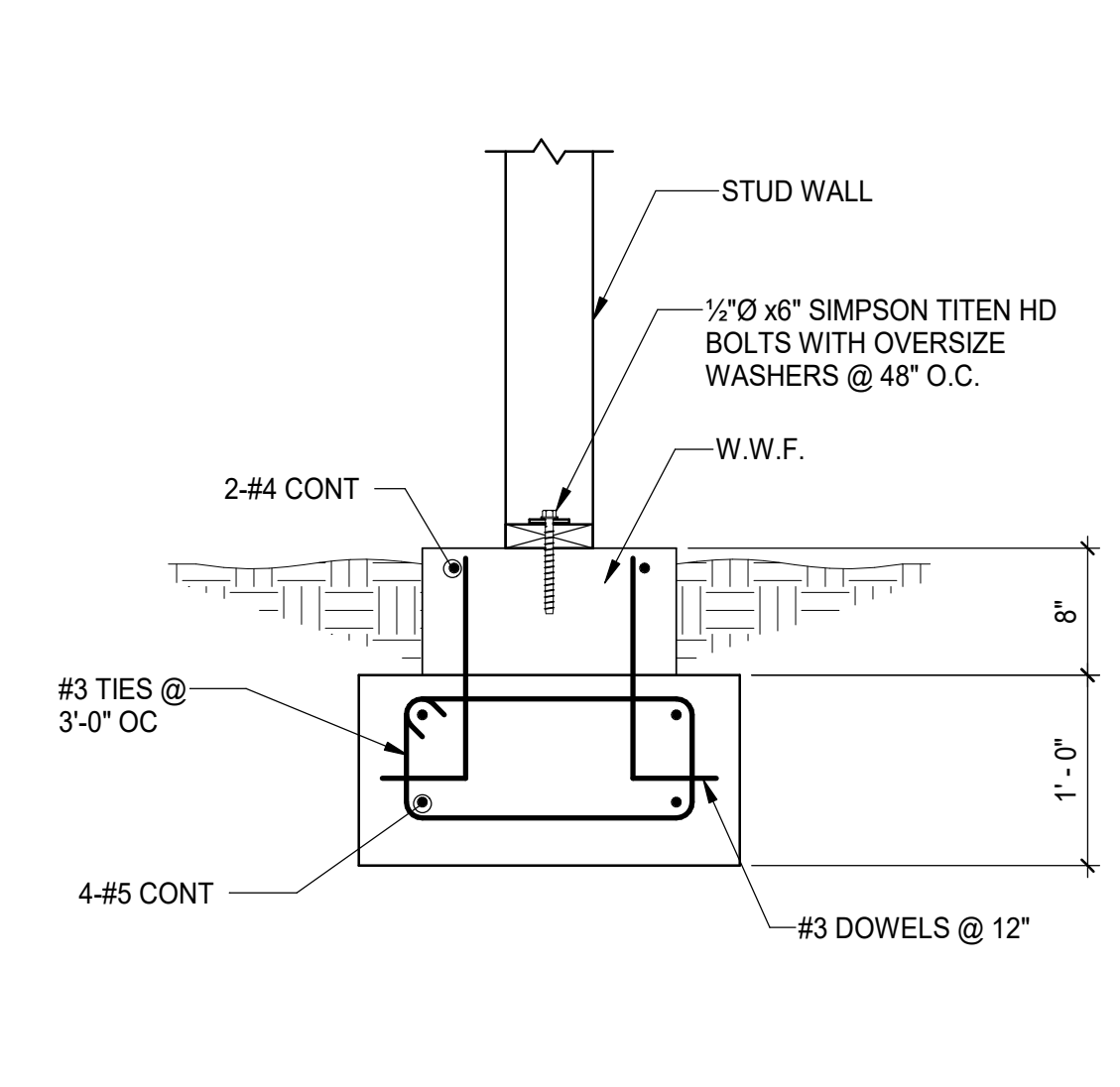
**5** SECTION EXTERIOR WALL  
SCALE: NONE



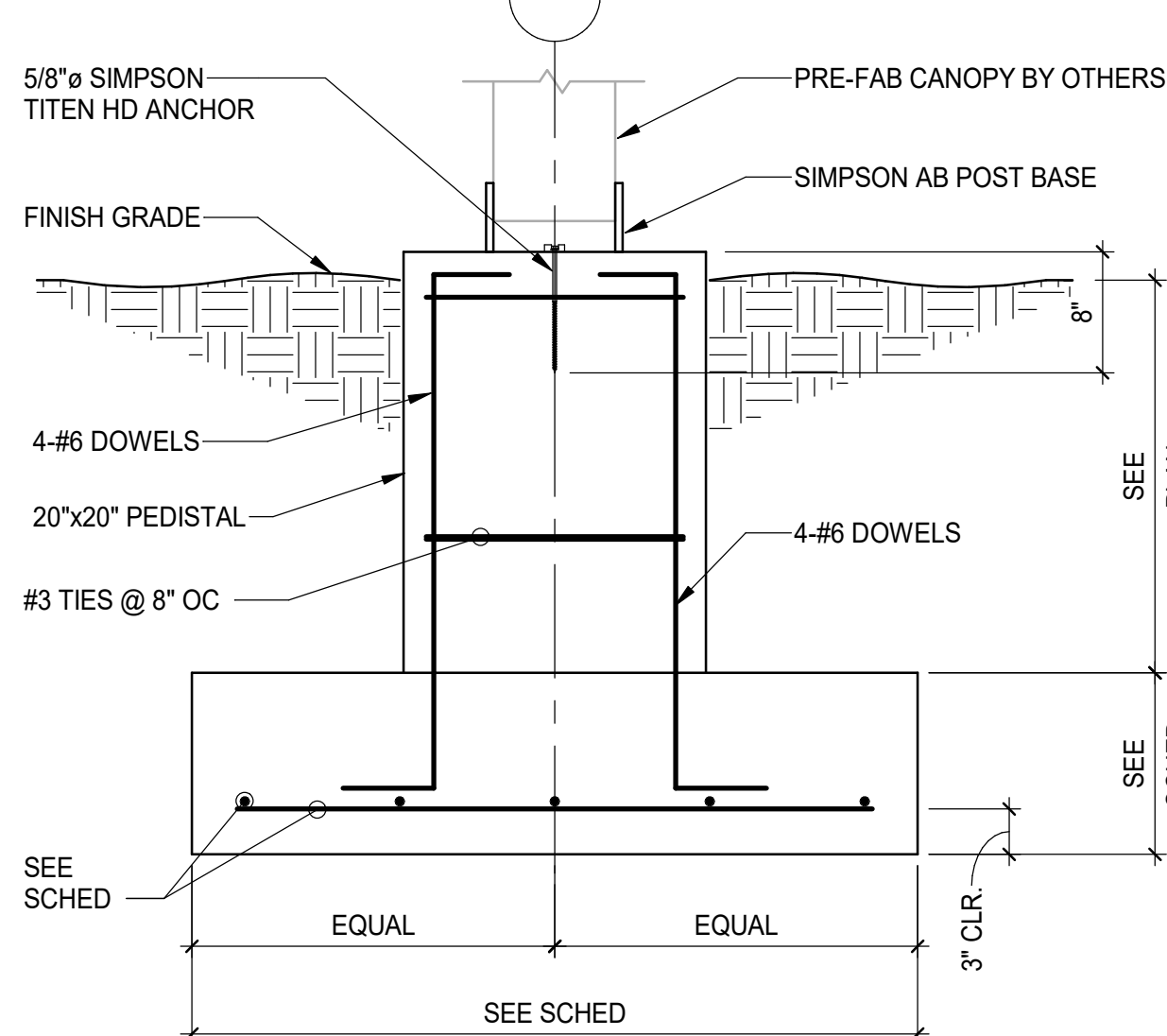
**6** TYP CONTINUITY CORNER  
SCALE: NONE



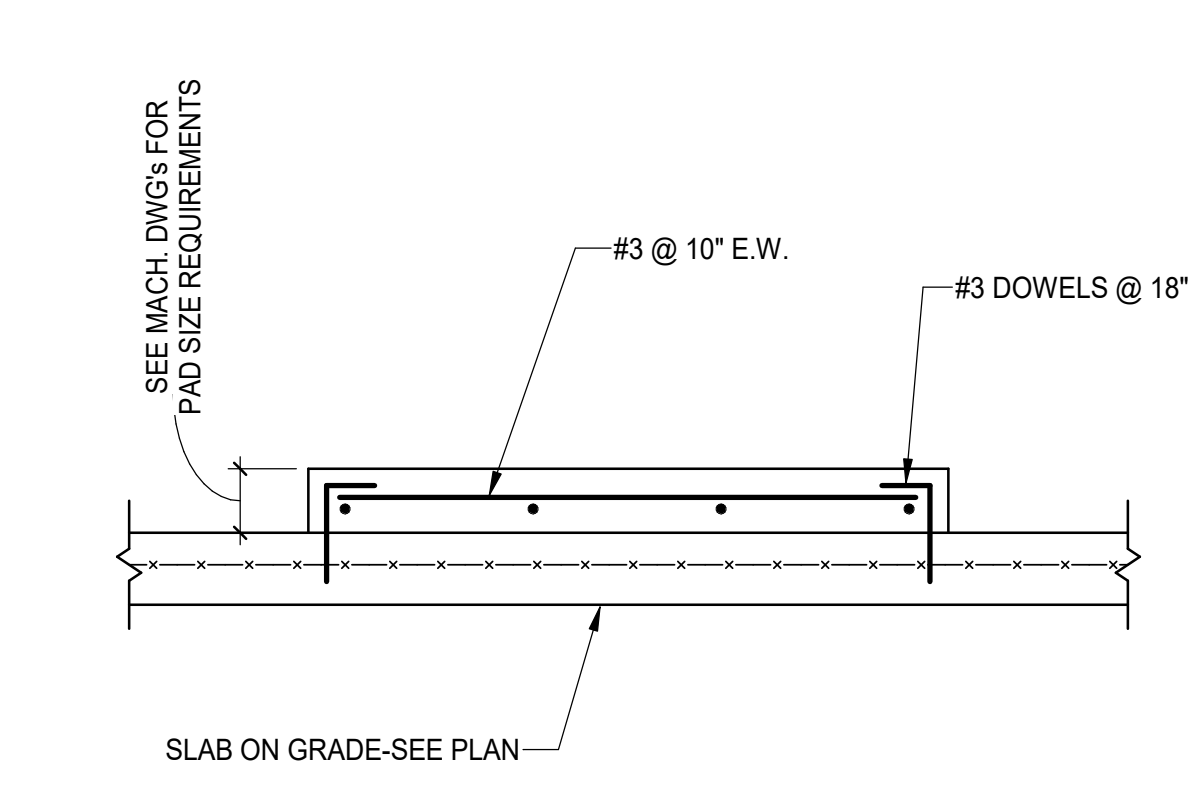
**7** TYP CONTINUITY INT  
SCALE: NONE



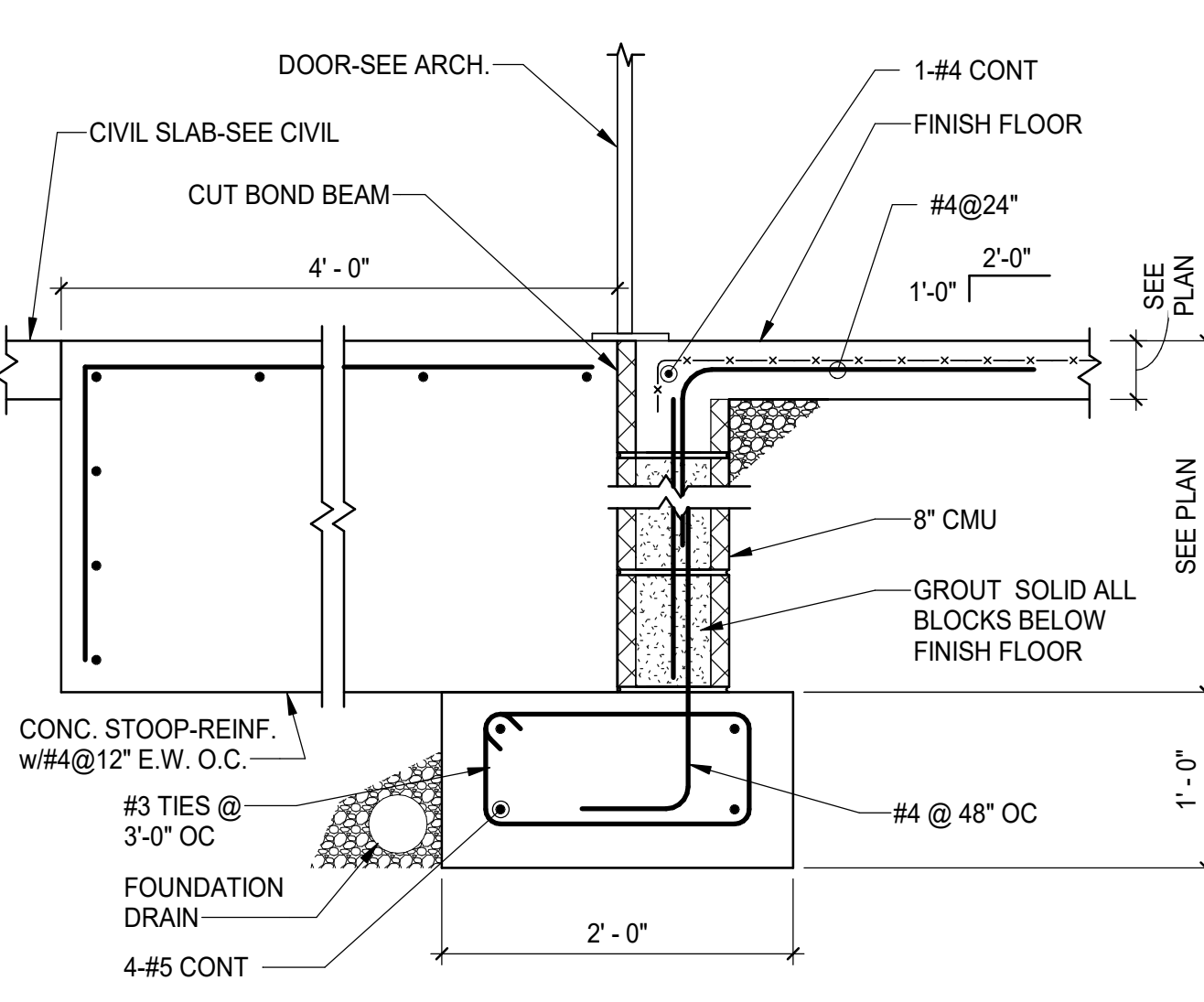
**8** SECTION  
SCALE: NONE



**9** SECTION  
SCALE: NONE



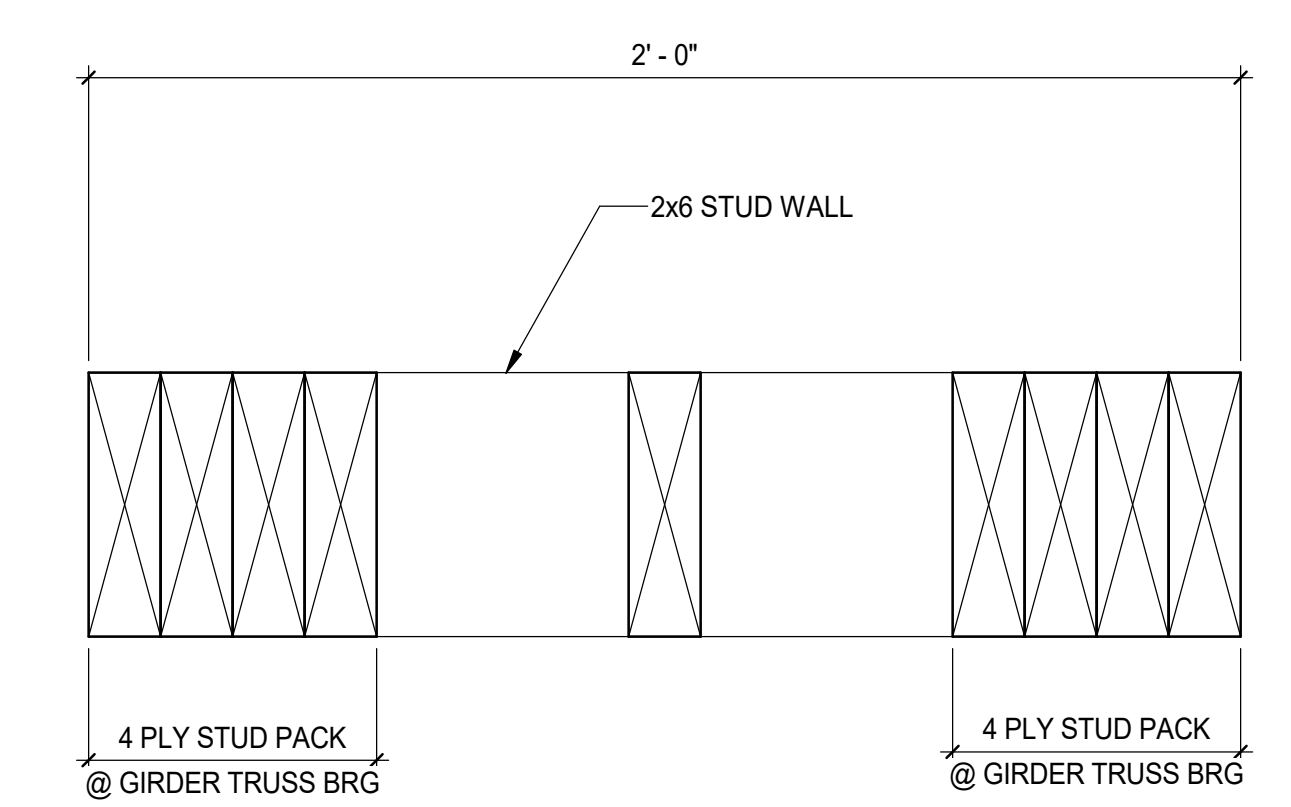
**11** HOUSE KEEPING PAD  
SCALE: NONE



**12** SECTION @ DOOR  
SCALE: NONE



**14** TYP INTERIOR CURB DETAIL  
SCALE: NONE



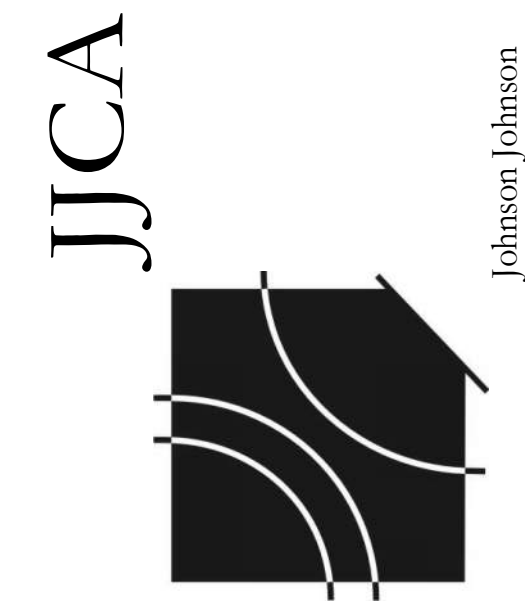
**15** SECTION  
SCALE: 3" = 1'-0"



**18** SECTION EXTERIOR WALL  
SCALE: NONE

**16** SCALE: NONE

**17** SCALE: NONE



Freestanding Medical Office Building Shell for:  
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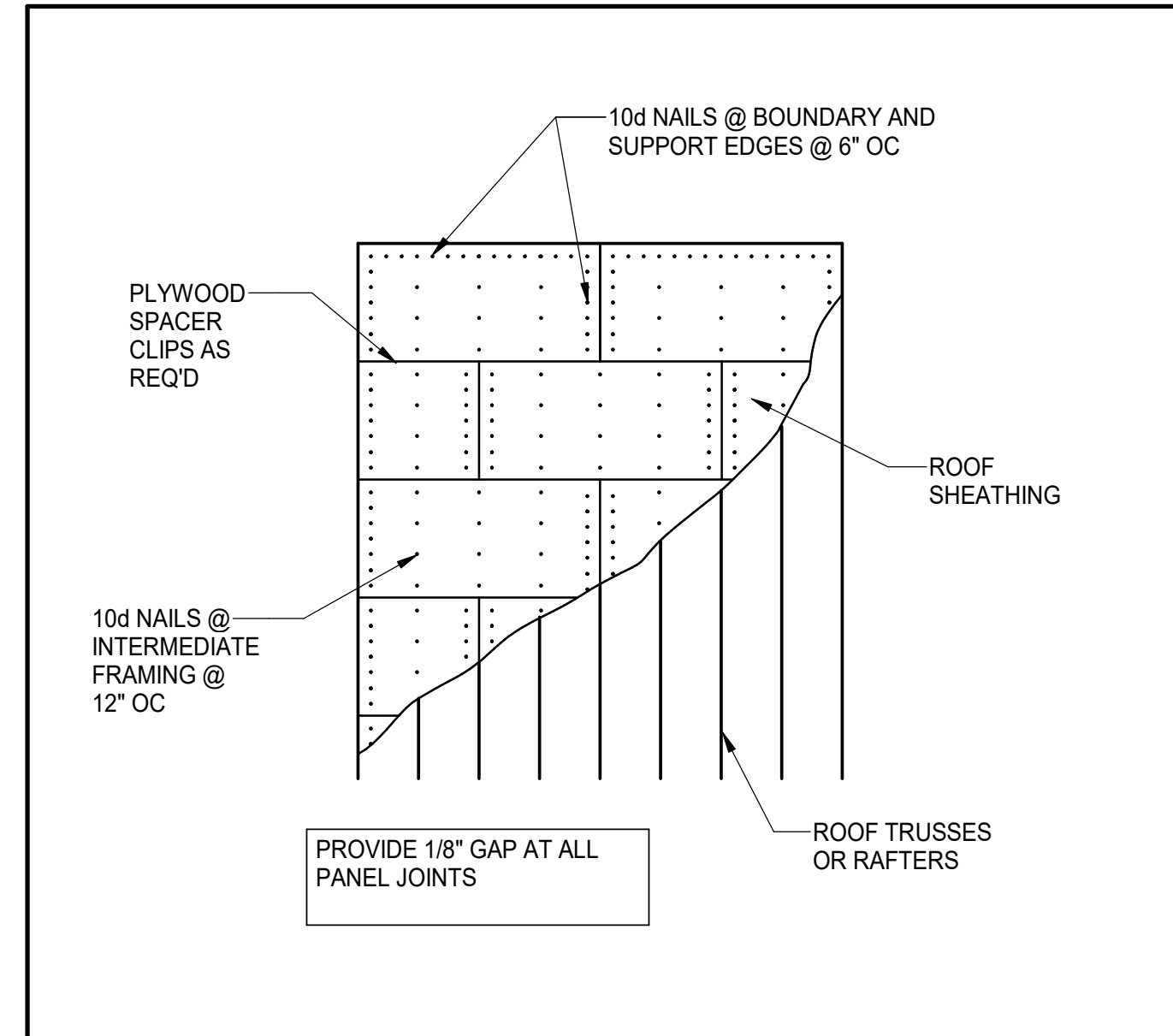
**S2.1**

SECTIONS AND DETAILS

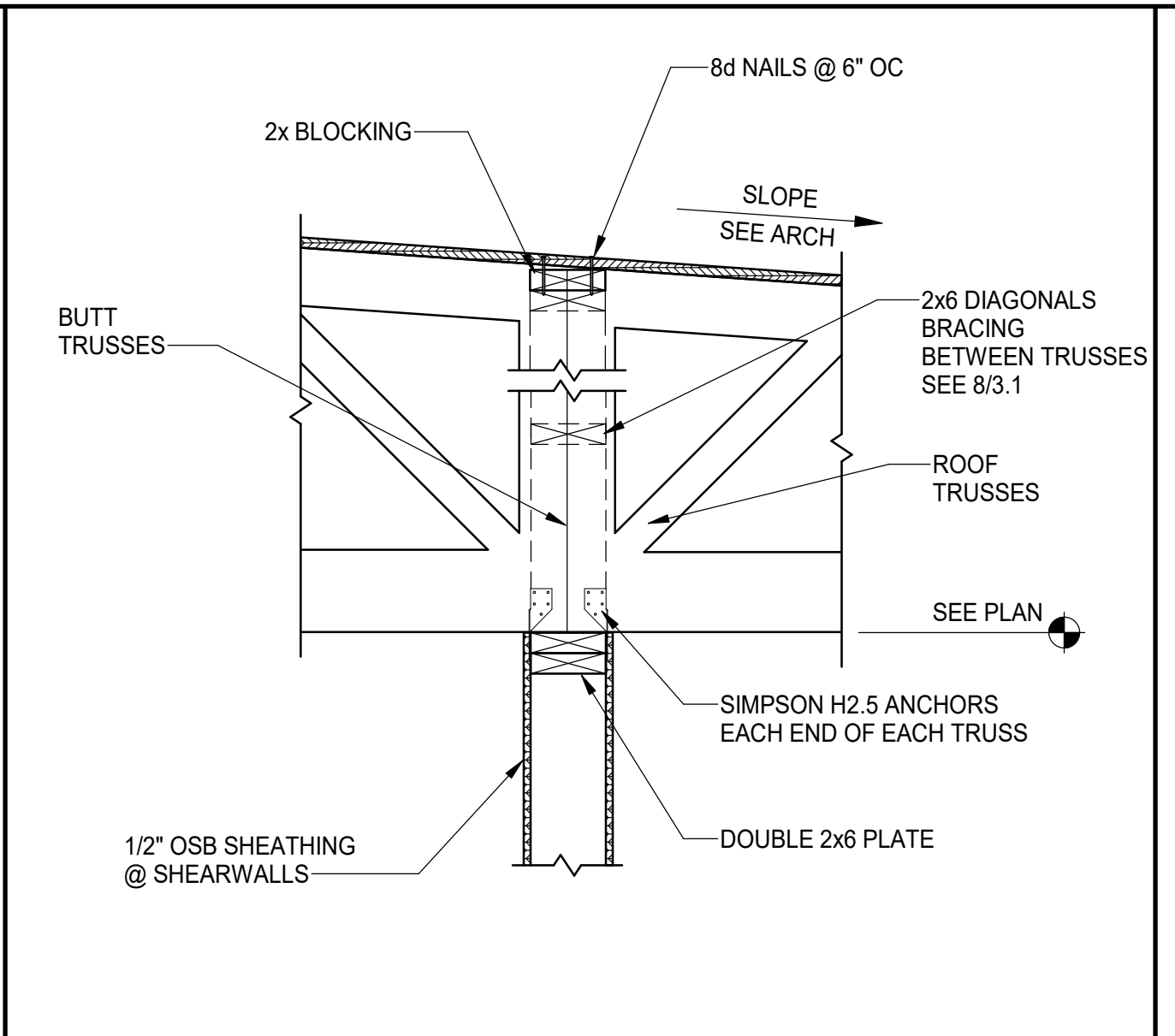


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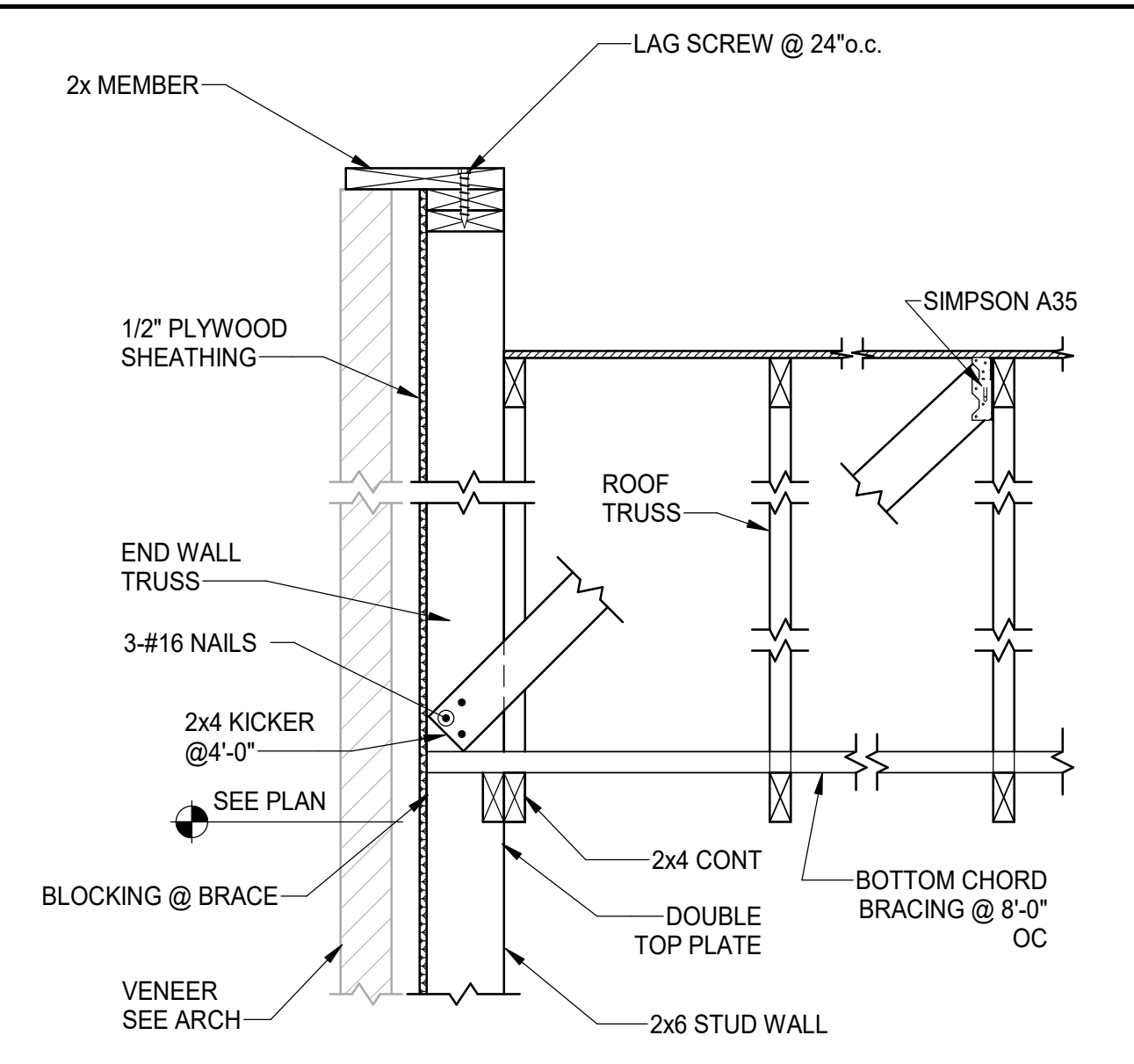




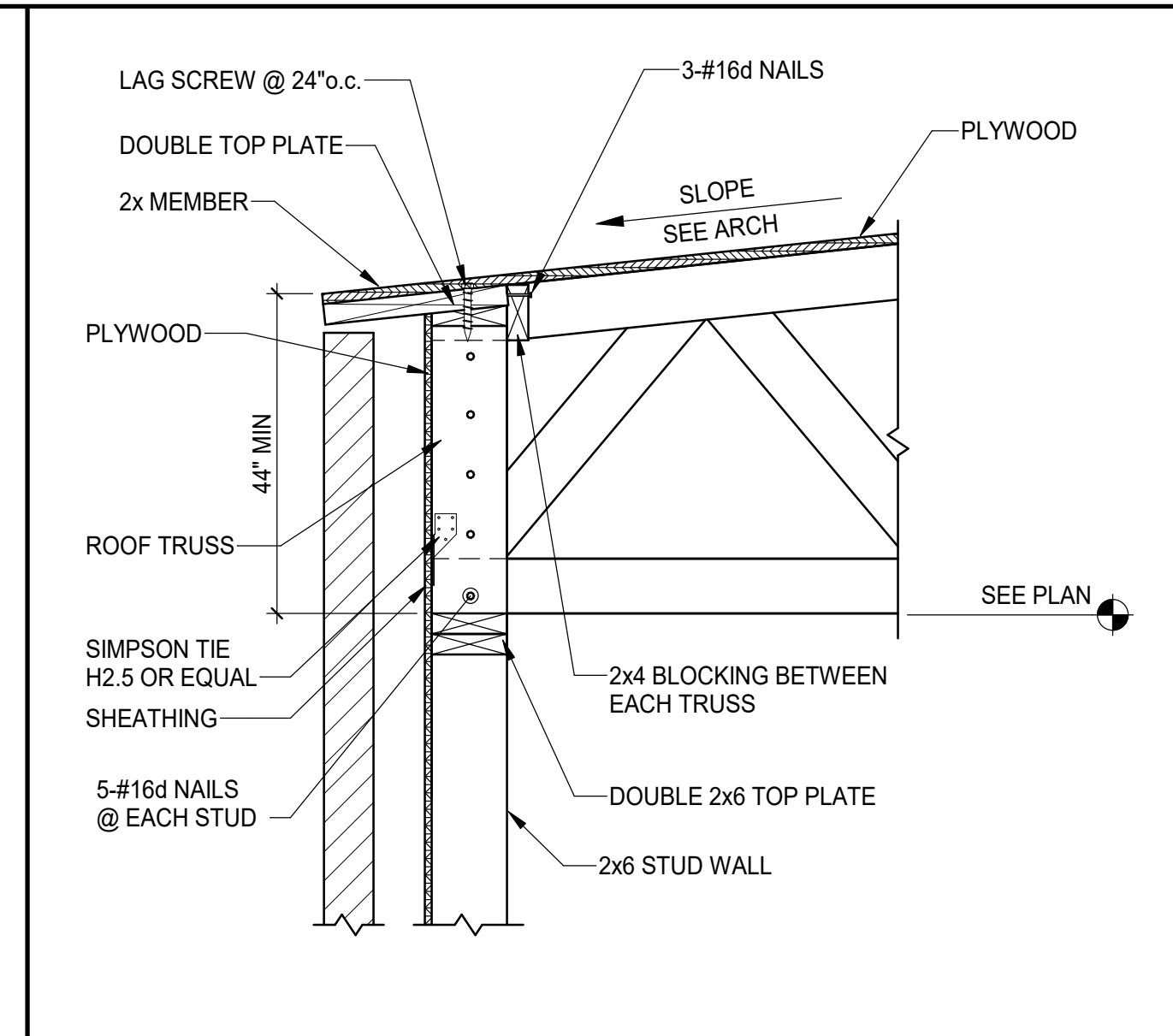
**1 DETAIL**  
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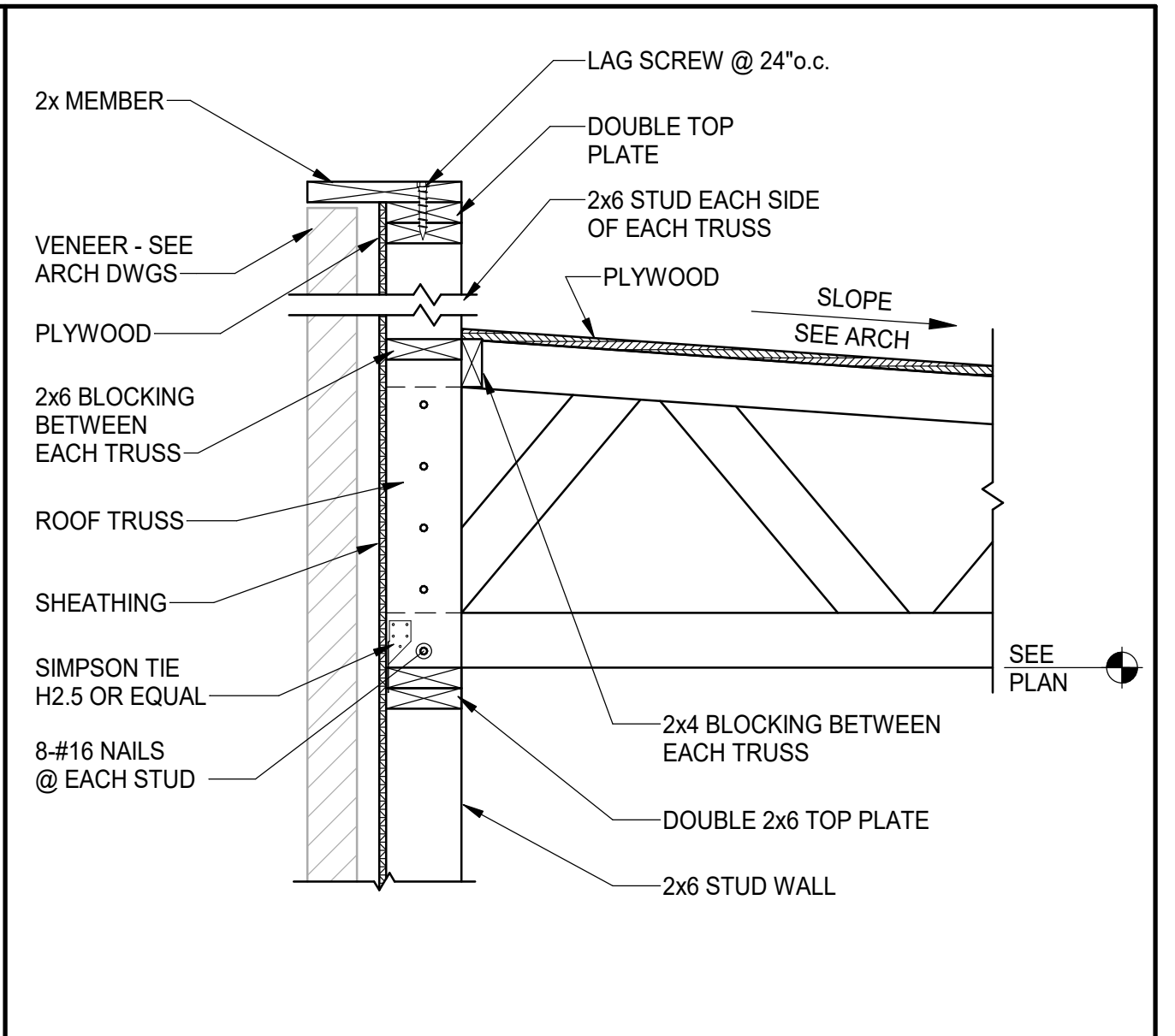
**2 SECTION @ LOAD BEARING SHEAR WALL**  
SCALE: NONE



**3 EAVE SECTION**  
SCALE: NONE



**4 SECTION**  
SCALE: NONE



**5 SECTION**  
SCALE: NONE

NAILING SCHED		
CONNECTION	FASTENER	NUMBER OR SPACING
JOIST TO BAND JOIST FACE NAIL	16D COMMON	3
JOIST TO SILL GIRDER TOE NAIL	8D COMMON	3
BRIDGING TO JOIST TOE NAIL EACH END	8D COMMON	2
LEDGER STRIP	16D COMMON	3 AT EACH JOIST
1/8 SUBFLOOR OR LESS TO EA JOIST, FACE NAIL	8D COMMON	2
OVER 1/8 SUBFLOOR TO EA JOIST, FACE NAIL	8D COMMON	3
2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	8D COMMON	2
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16D COMMON	16" OC
TOP OR SOLE PLATE TO STUD, END NAILED	16D COMMON	2
STUD TO SOLE PLATE, TOE NAIL	10D COMMON	4
DOUBLED STUDS, FACE NAIL	10D COMMON	24" OC
DOUBLE TOP PLATES FACE NAIL	10D COMMON	16" OC
TOP PLATES, LAP AND INTERSECTIONS FACE NAIL	-----	2-16D OR 3-10D COMMON
CONTINUOUS HEADER TWO PIECES	16D COMMON	16" OC ALONG EACH EDGE
CEILING JOISTS TO PLATES TOE NAIL	8D COMMON	3
CONTINUOUS HEADER TO STUD TOE NAIL	8D COMMON	3
CEILING JOIST LAPS OVER PARTITION, FACE NAIL	-----	3-16D OR 4-10D COMMON
CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL	-----	3-16D OR 4-10D COMMON
RAFTER TO PLATE, TOE NAIL	8D COMMON	3
1-INCH BRACE TO EACH STUD & PLATE, FACE NAIL	8D COMMON	2
1/8 SHEATHING OR LESS TO EA BEARING, FACE NAIL	8D COMMON	2
OVER 1/8 SHEATHING TO EACH BEARING, FACE NAIL	8D COMMON	3
BUILT-UP CORNER STUDS EACH BEARING, FACE NAIL	16D COMMON	24" OC
BUILT-UP GIRDERS & BEAMS, OF THREE MEMBERS	20D COMMON	12" OC AT TOP & BOTTOM & STAGGERED 2 ENDS @ EACH SPLICE
2-INCH PLANKS	16D COMMON	2 EACH BEARING
2-INCH TOE NAIL, END NAIL	16D COMMON	2 EACH END

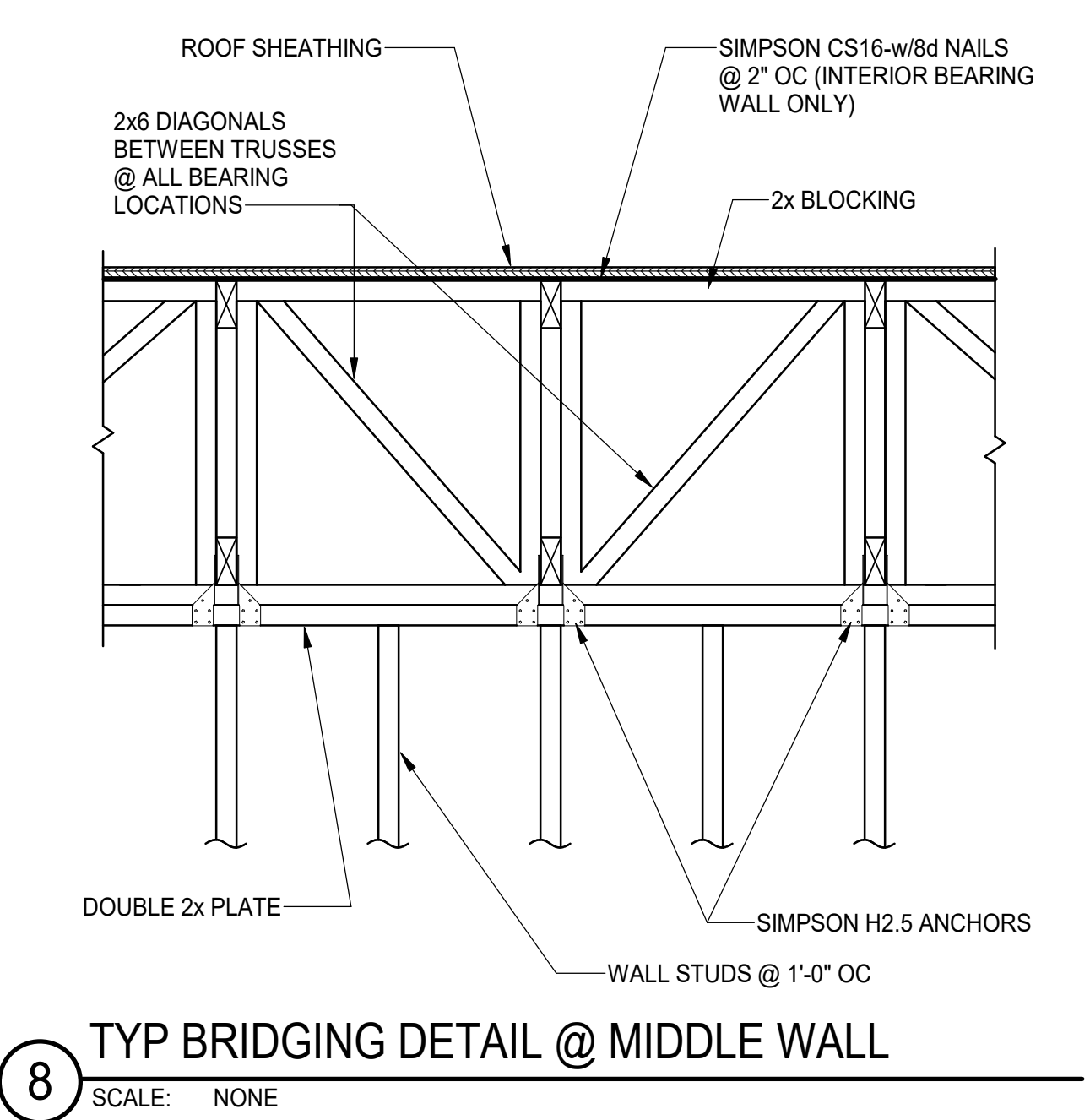
**6 SCHED**  
SCALE: NONE

"PLYWOOD AND O.S.B. BOARD ROOF & WALL SHEATHING"		
1/2" OR LESS	6D COMMON	6" OC EDGES AND 12" OC INTERMEDIATE
1/8" OR GREATER	8D COMMON	6" OC EDGES AND 12" OC INTERMEDIATE
5/16" - 1/2"	16 GA. GALVANIZED WIRE STAPLES, 3/8" MINIMUM CROWN	4" OC EDGES AND 8" OC INTERMEDIATE
1/2" - 3/4"	LENGTH OF 1' PLUS PLYWOOD OR PARTICLEBOARD THICKNESS	2" OC EDGES AND 3" OC INTERMEDIATE

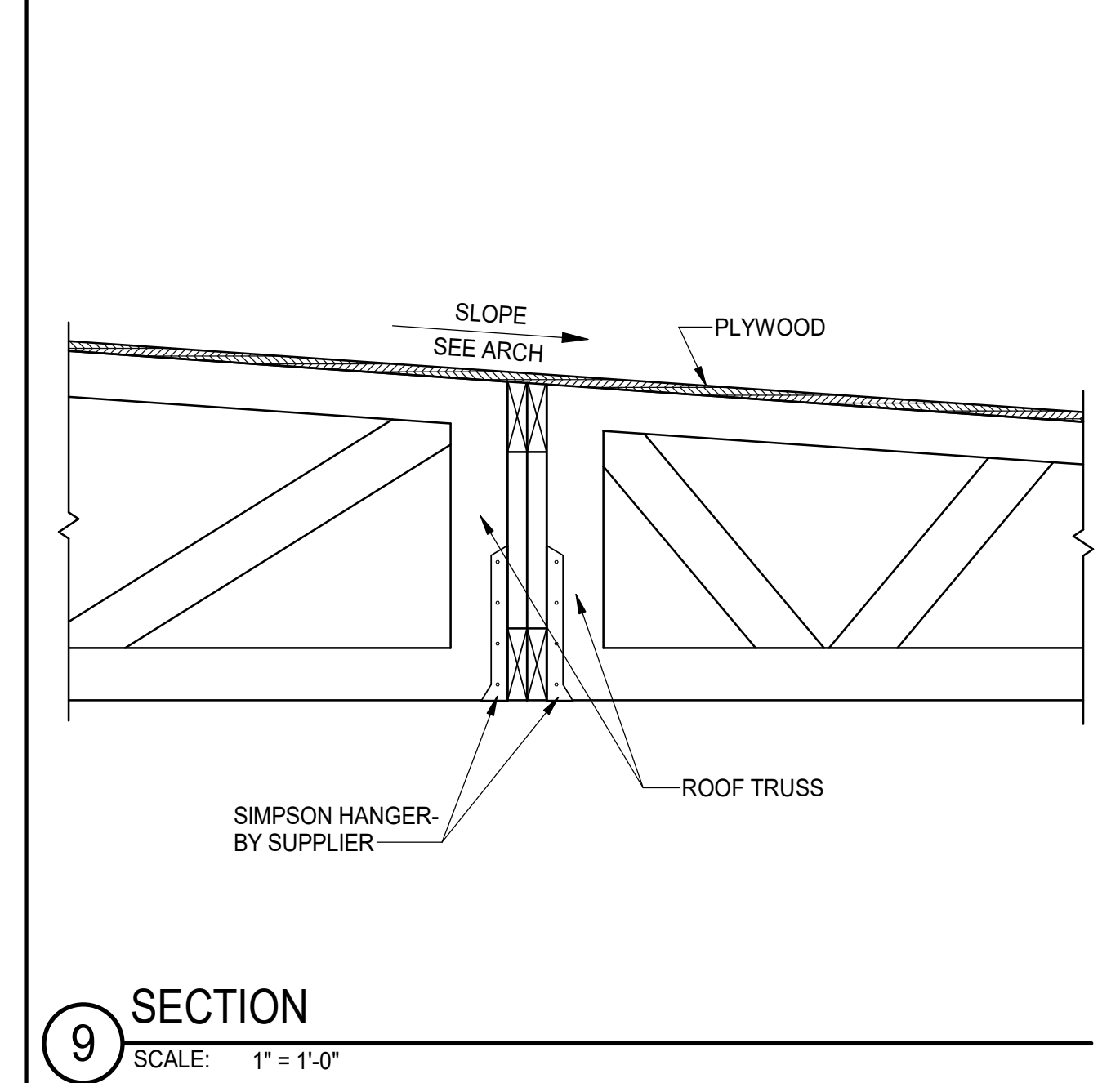
  

"FIBERBOARD AND GYPSUM SHEATHING"		
1/2" FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOFING NAIL 8D COMMON WALL	3" OC AT EDGES 8" OC AT OTHER BEARING
25/32" FIBERBOARD SHEATHING	1 3/4" GALVANIZED ROOFING NAIL 8D COMMON WALL	3" OC AT EDGES 8" OC AT OTHER BEARING
1/2" GYPSUM SHEATHING	1 1/2" GA. 1 1/2" GALVANIZED 7/16" HEAD	4" OC AT EDGES 8" OC AT OTHER BEARING
5/8" GYPSUM SHEATHING	1 1/2" GA. 1 3/4" GALVANIZED 7/16" HEAD	4" OC AT EDGES 8" OC AT OTHER BEARING
1/2" GYPSUM WALLBOARD	1 3/8" DRY-WALL NAIL	7" OC ON CEILING 8" OC ON WALLS
5/8" GYPSUM WALLBOARD	1 1/2" DRY-WALL NAIL	7" OC ON CEILING 8" OC ON WALLS

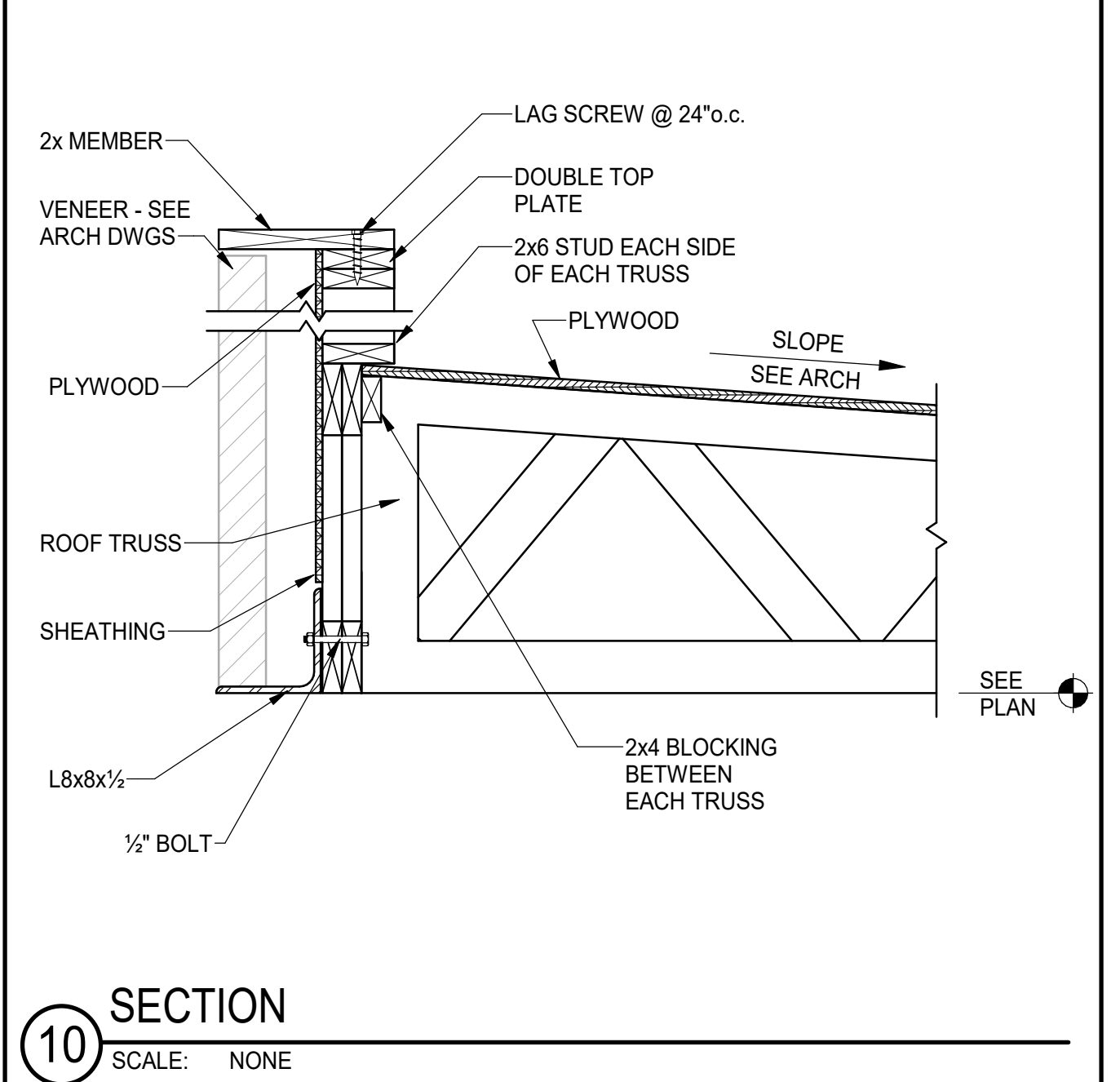
**7 SCHED**  
SCALE: NONE



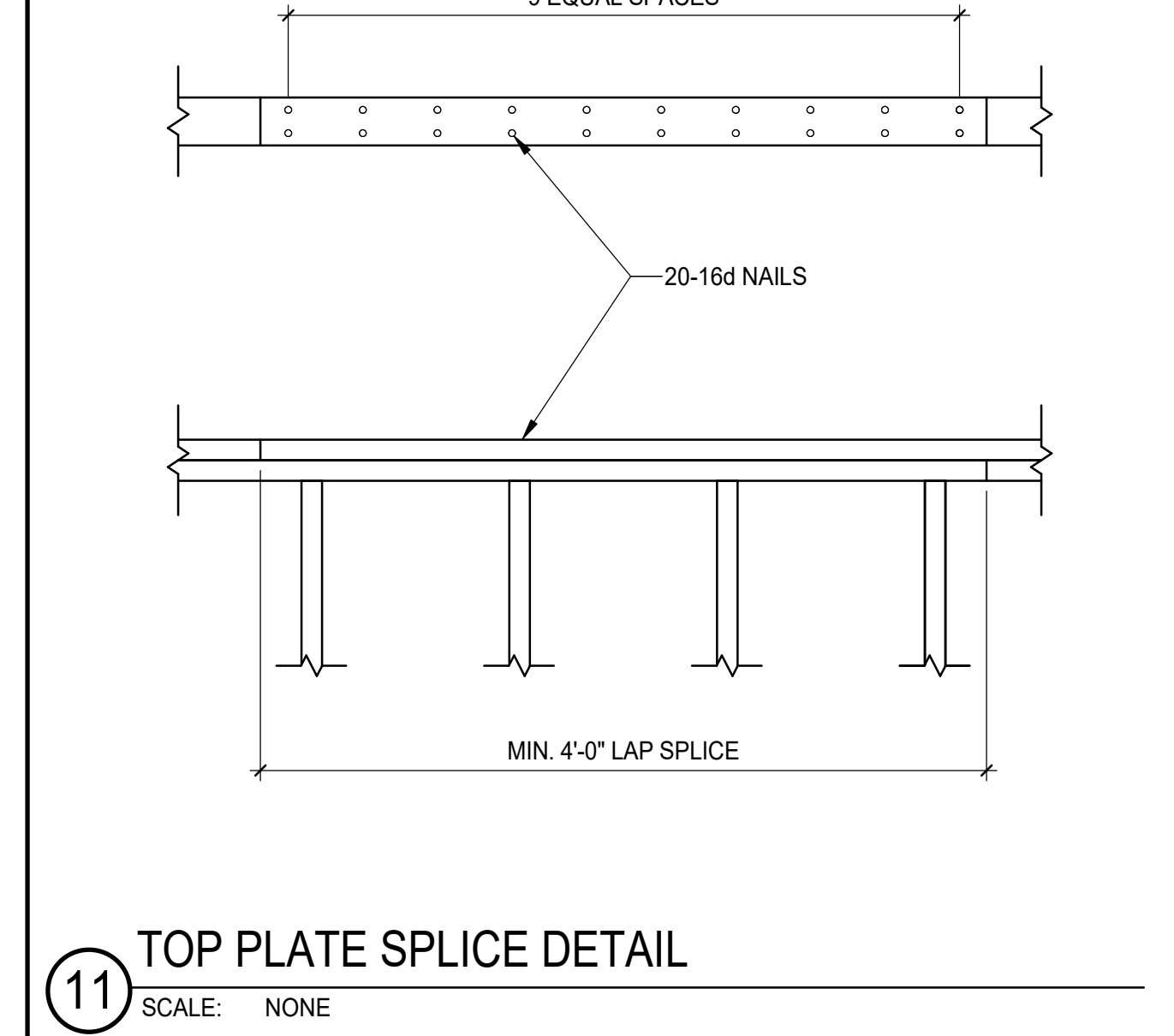
**8 TYP BRIDGING DETAIL @ MIDDLE WALL**  
SCALE: NONE



**9 SECTION**  
SCALE: 1" = 1'-0"



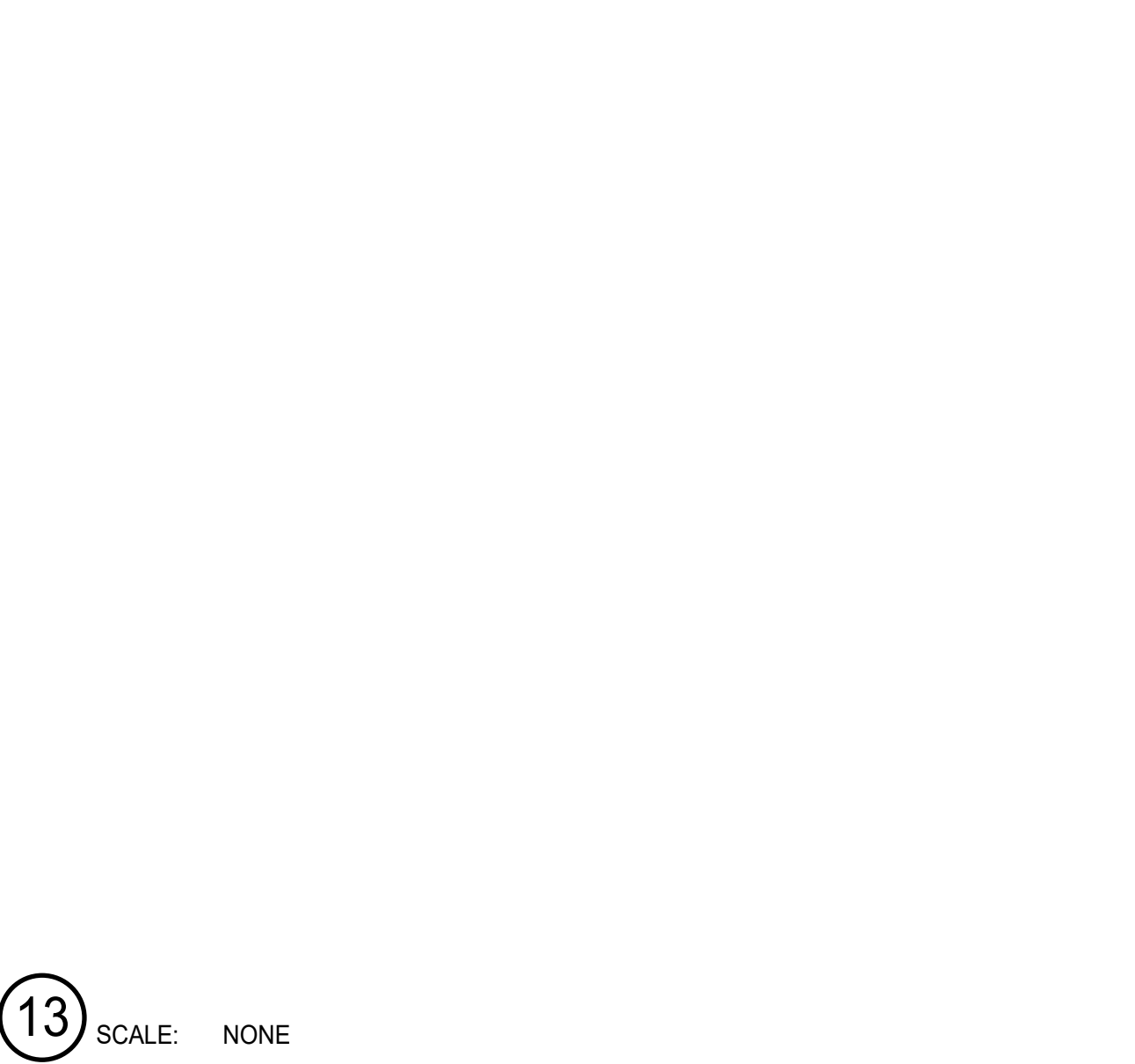
**10 SECTION**  
SCALE: NONE



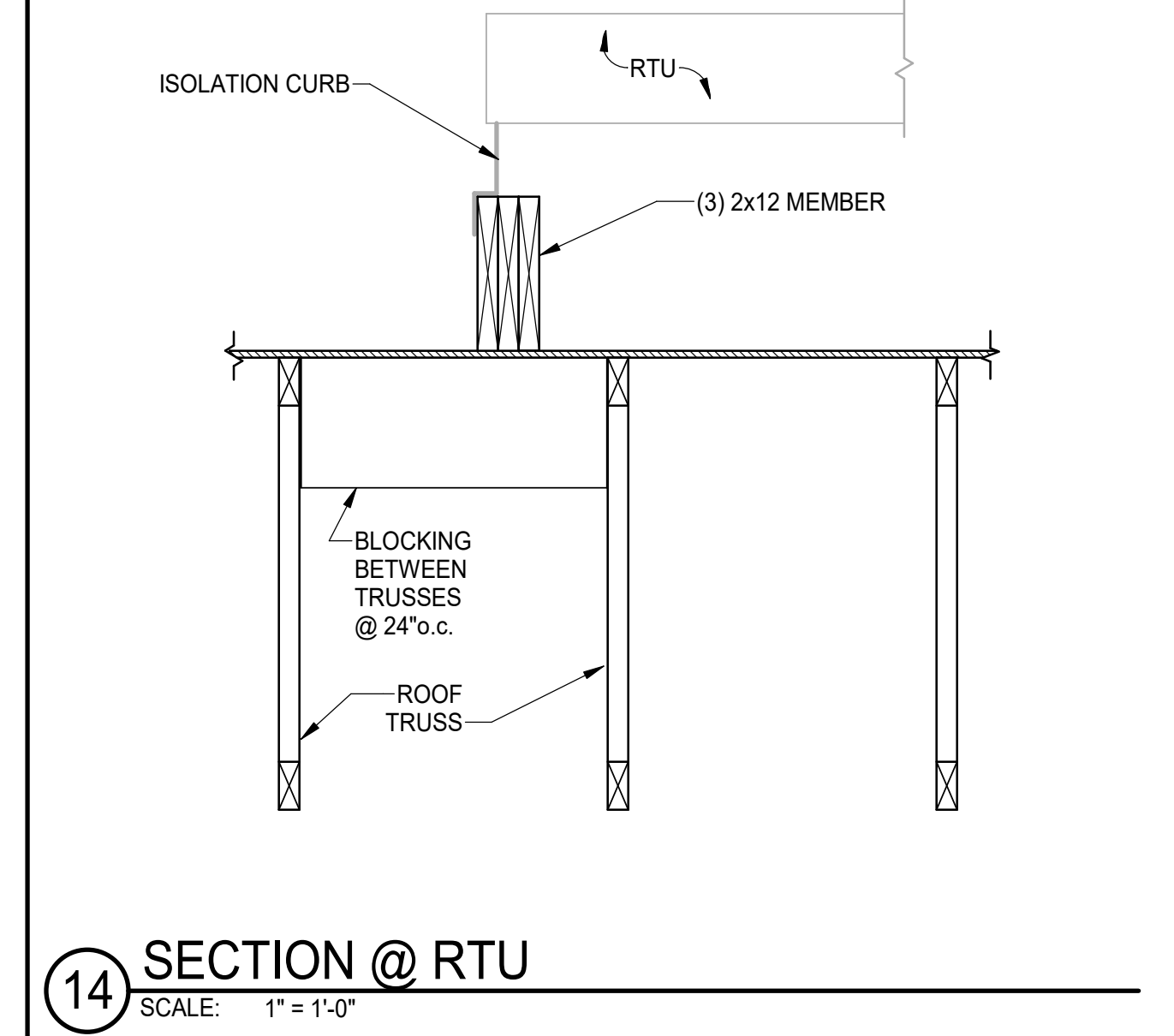
**11 TOP PLATE SPLICE DETAIL**  
SCALE: NONE

HEADER SCHED		
MAX SPAN	SIZE REQ'D	SUPPORT CONDITION
0 TO 2'-11"	2-2x6	2 FULL HEIGHT STUDS EA SIDE 1 BEARING STUD
3'-0" TO 4'-5"	2-2x8	
4'-6" TO 5'-11"	2-2x10	
6'-0" TO 7'-5"	2-2x12	2 FULL HEIGHT STUDS EA SIDE 2 BEARING STUD
7'-6" TO 9'-0"	2-11 7/8" LVL	

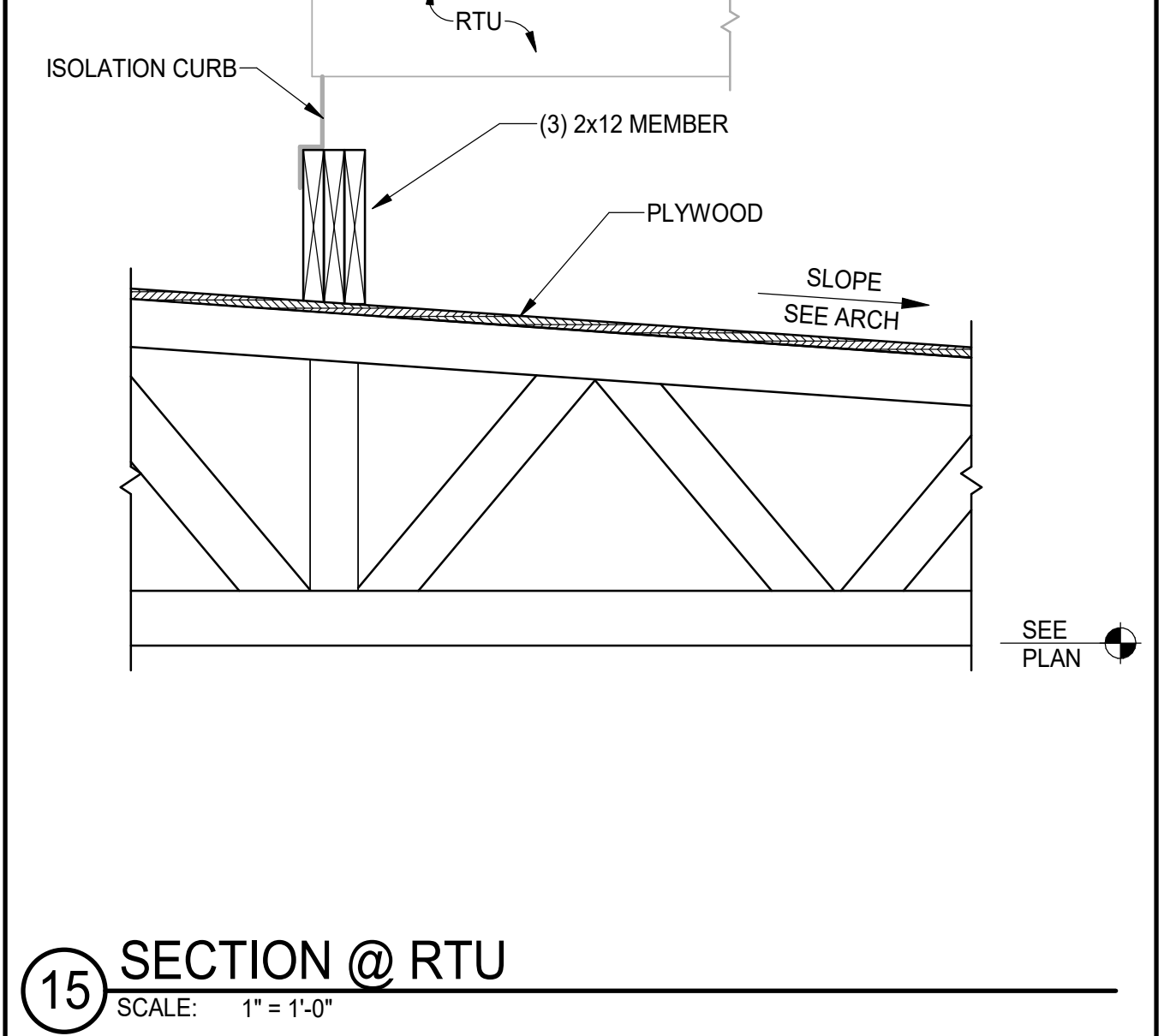
**12 HEADER SCHEDULE**  
SCALE: NONE



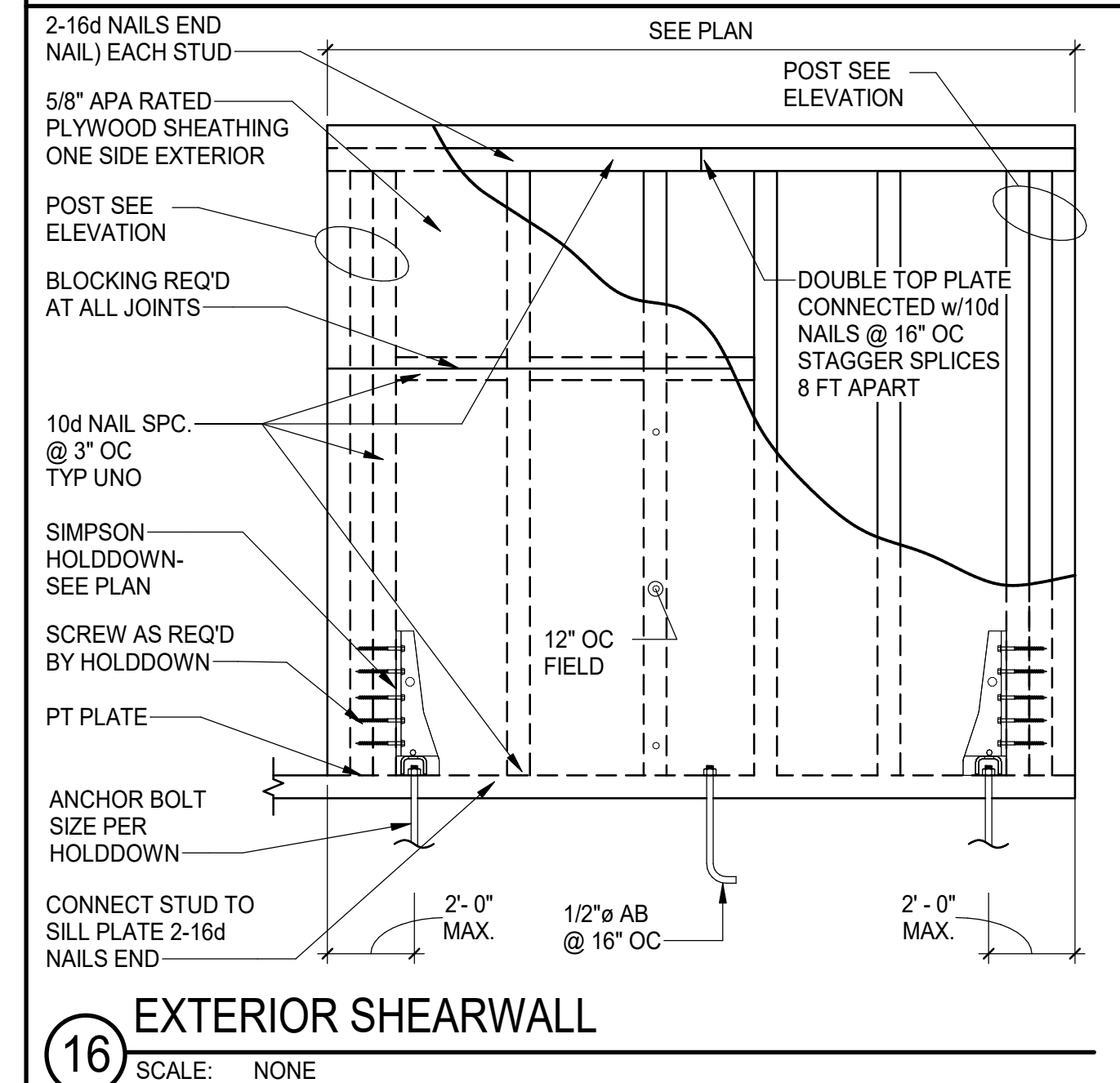
**13 SECTION @ RTU**  
SCALE: NONE



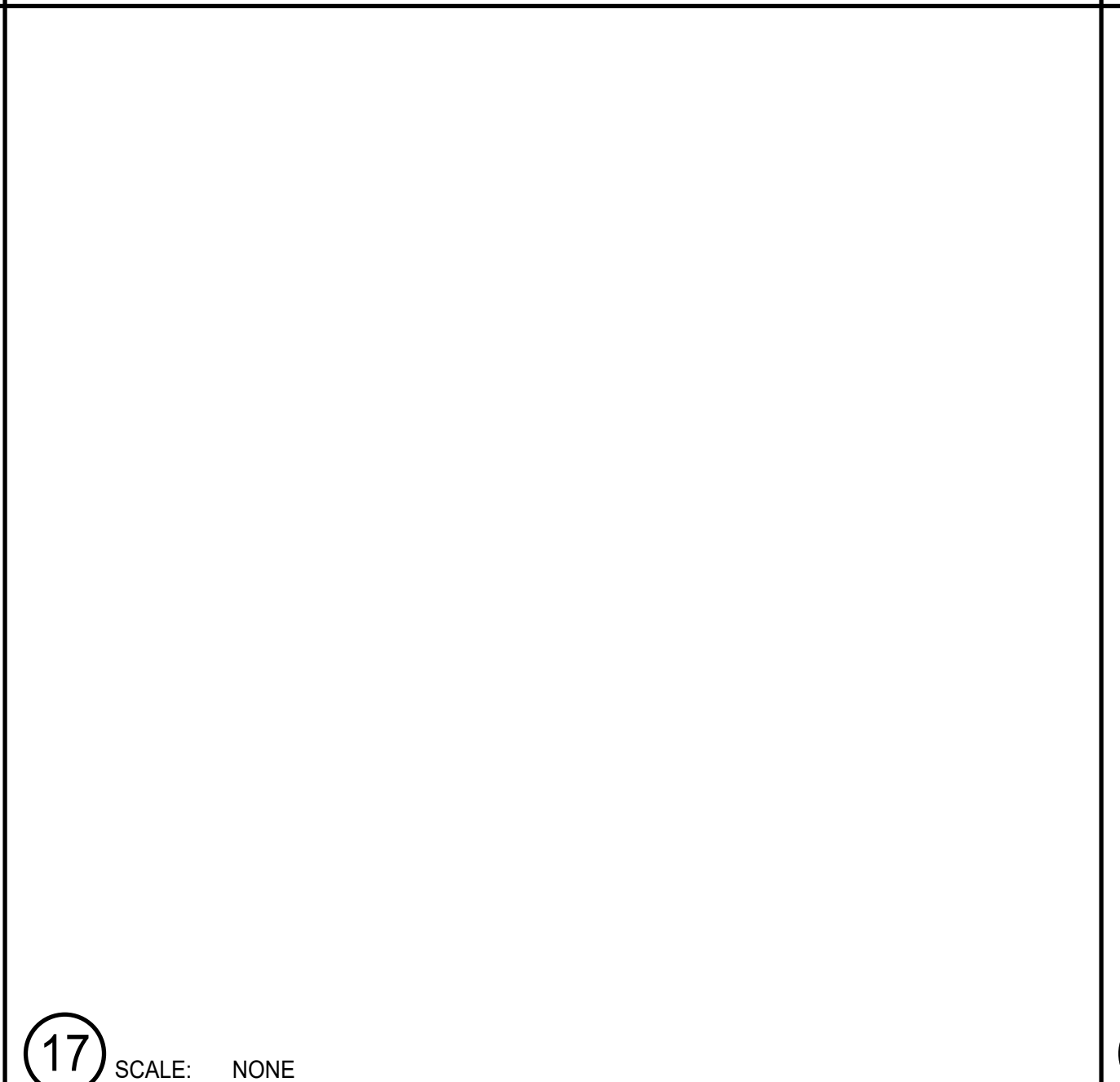
**14 SECTION @ RTU**  
SCALE: 1" = 1'-0"



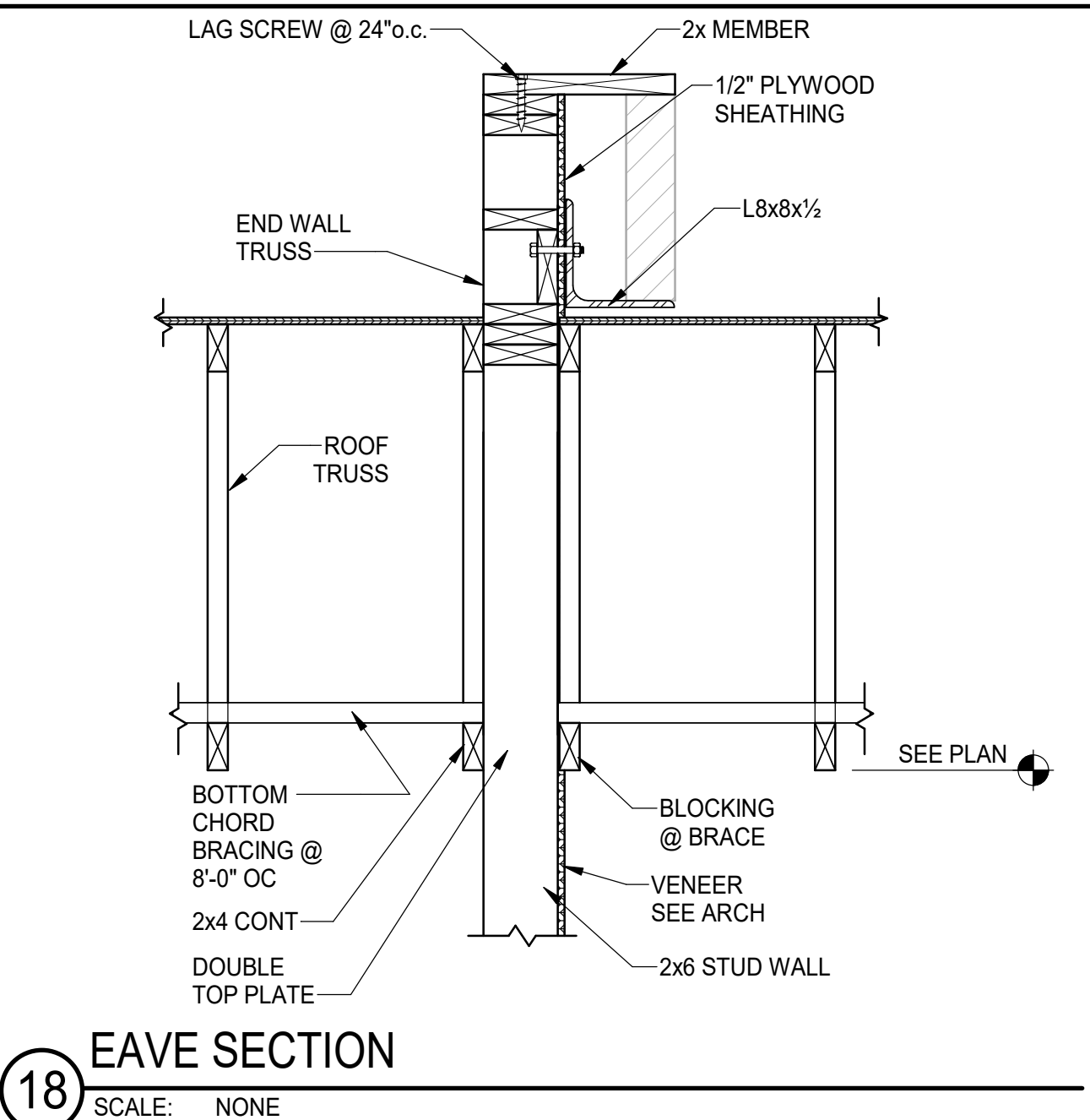
**15 SECTION @ RTU**  
SCALE: 1" = 1'-0"



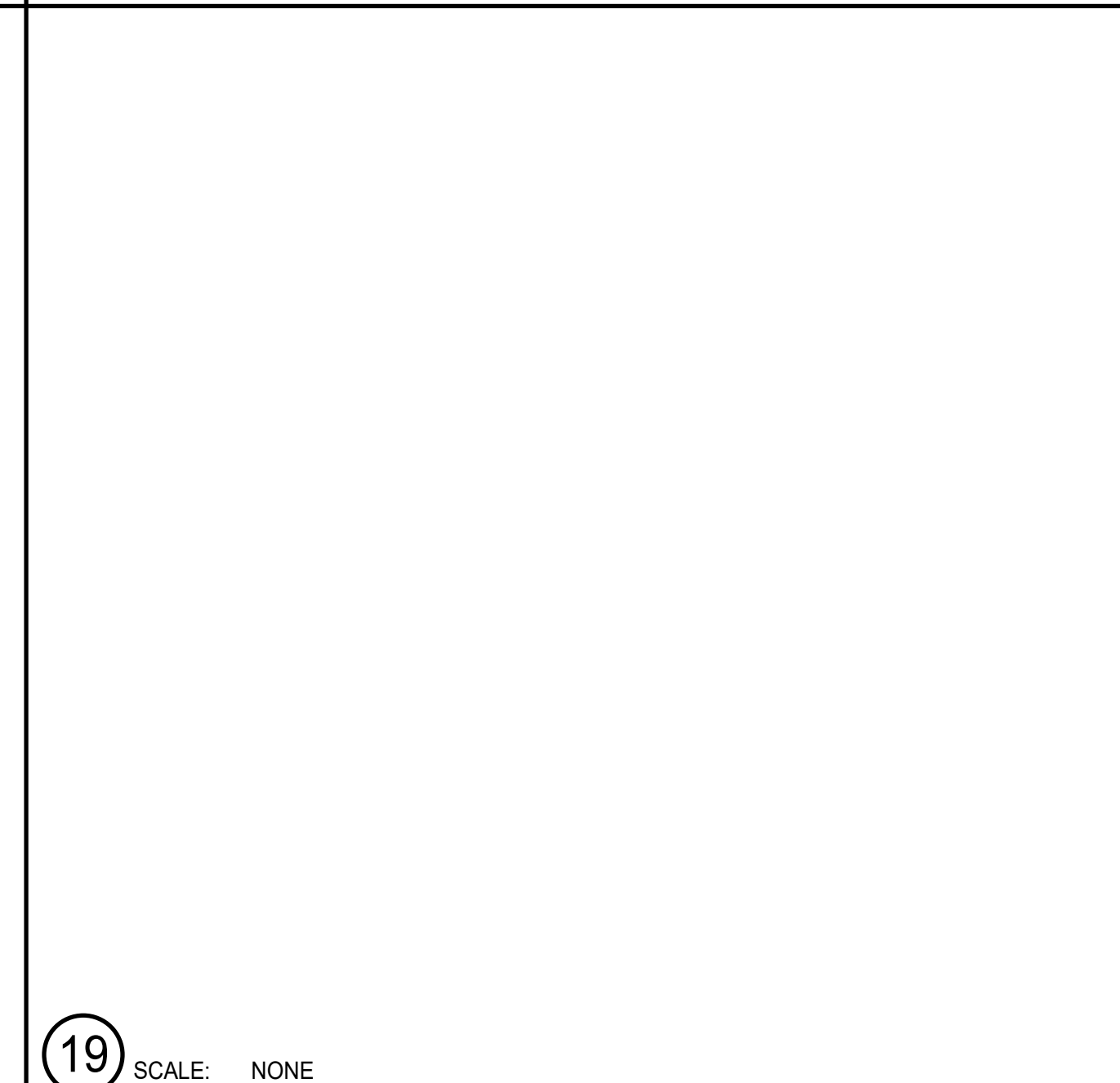
**16 EXTERIOR SHEARWALL**  
SCALE: NONE



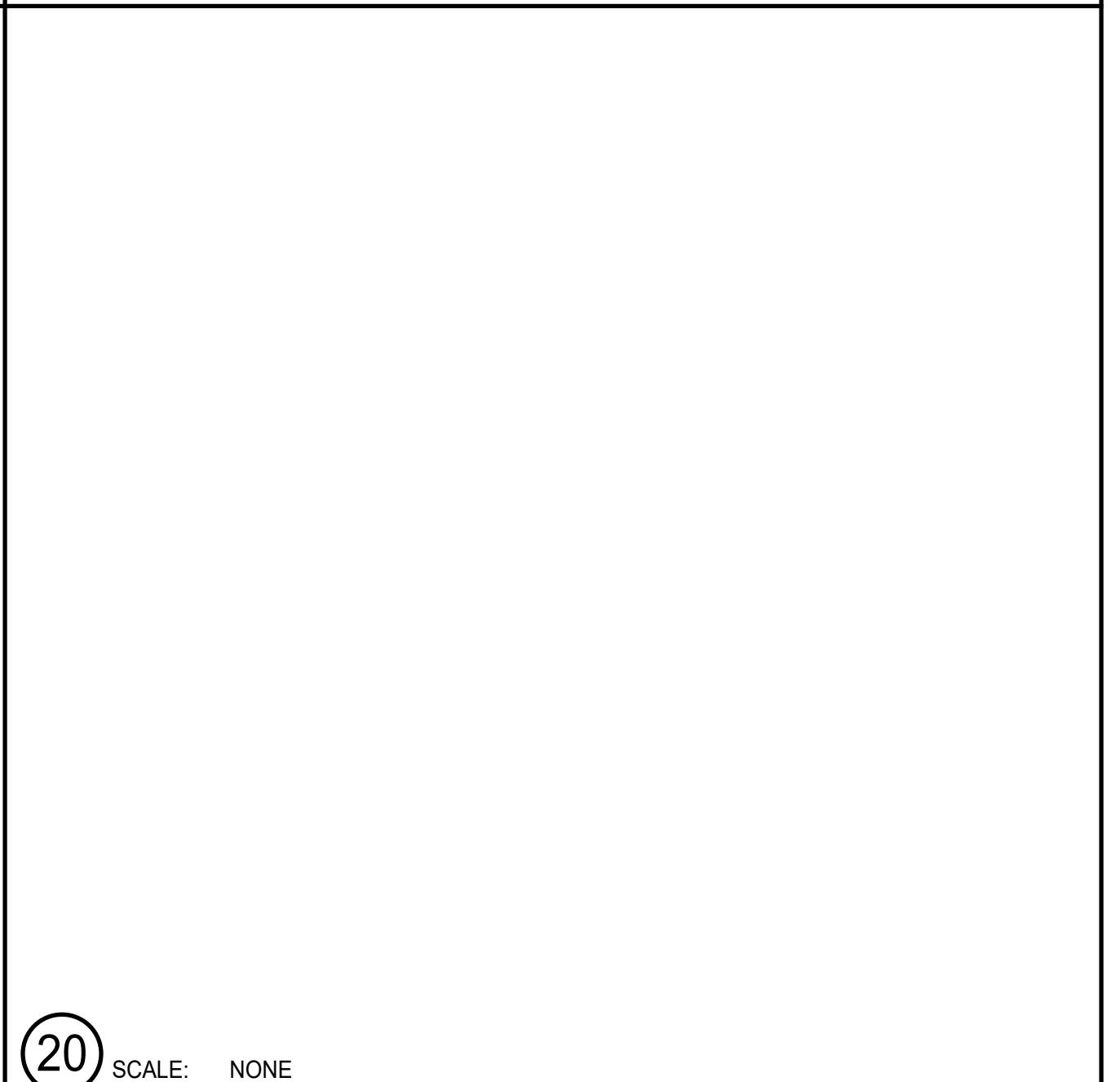
**17 EAVE SECTION**  
SCALE: NONE



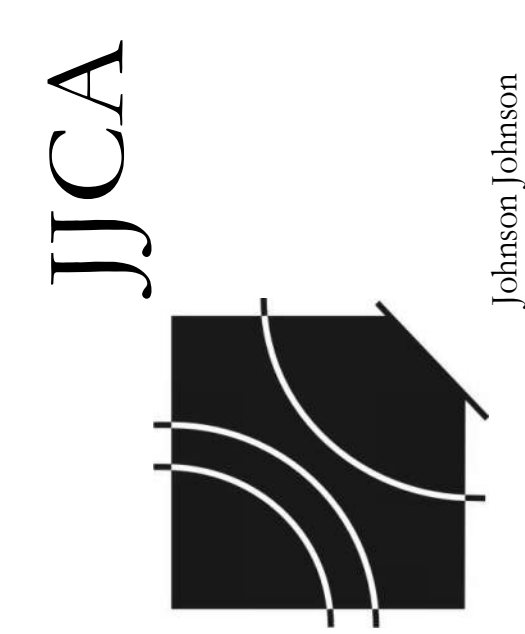
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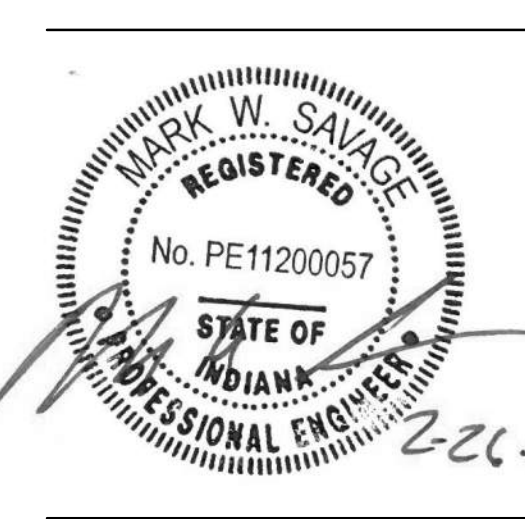
**19 SECTION @ RTU**  
SCALE: NONE



**20 SECTION @ RTU**  
SCALE: NONE



Freestanding Medical Office Building Shell for  
**Sullivan County Community Hospital**  
Sullivan, Indiana



Sheet Re-Issue Log  
(Individual revisions clouded and labeled within sheet)

PROJECT NUMBER  
**23987.02**  
DATE  
**February 28, 2024**

**S3.1**

SECTIONS AND DETAILS

EMC  
ENGINEERING & ARCHITECTURE  
23239 R23

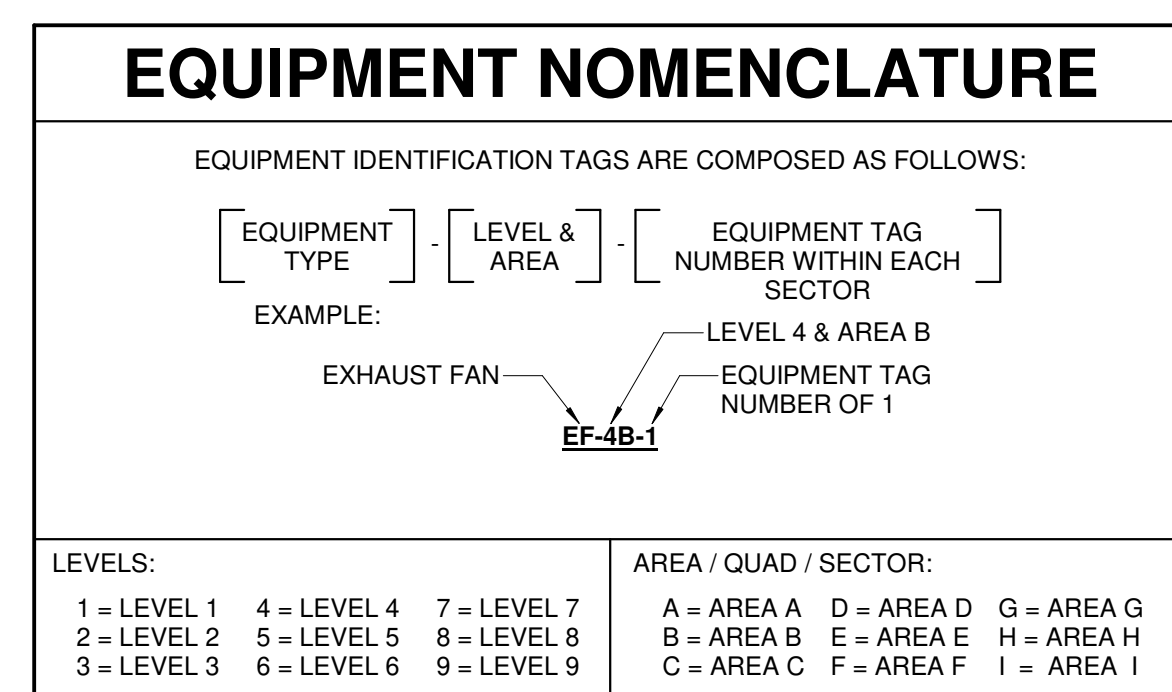


MECHANICAL LEGEND (NOT ALL SYMBOLS MAY BE USED)			
DUCTWORK			
SYMBOL / ABBREVIATION	DESCRIPTION	SYMBOL / ABBREVIATION	DESCRIPTION
	RECTANGULAR SUPPLY DUCT - UP	12"x12" FACE	24"x24" FACE
	RECTANGULAR SUPPLY DUCT - DOWN		SUPPLY DIFFUSER AND AIR QUANTITY. BLANK OUTS INDICATE NO AIR FLOW IN THIS DIRECTION. (X DENOTES TYPE. SEE NOTE 1 OF AIR DISTRIBUTION DEVICE SCHEDULE)
	RECTANGULAR RETURN / EXHAUST DUCT - UP		RETURN GRILLE AND AIR QUANTITY (X DENOTES TYPE). EXHAUST GRILLE AND AIR QUANTITY (X DENOTES TYPE)
	RECTANGULAR RETURN / EXHAUST DUCT - DOWN		LAMINAR FLOW SUPPLY DIFFUSER AND AIR FLOW QUANTITY (X DENOTES TYPE)
	ROUND SUPPLY DUCT - UP		LINEAR SLOT DIFFUSER AND AIR FLOW QUANTITY
	ROUND SUPPLY DUCT - DOWN		SCREENED OPENING AND AIR FLOW QUANTITY
	ROUND RETURN / EXHAUST DUCT - UP		SOUND ATTENUATOR
	ROUND RETURN / EXHAUST DUCT - DOWN		HEATING COIL WITH IDENT.
	OVAL SUPPLY DUCT - UP		ELECTRIC HEATING COIL WITH IDENT.
	OVAL SUPPLY DUCT - DOWN		AIR TERMINAL UNIT WITH IDENT. & MAX CFM
	OVAL RETURN / EXHAUST DUCT - UP		AIR TERMINAL UNIT WITH IDENT., MIN AND MAX CFM
	OVAL RETURN / EXHAUST DUCT - DOWN		CHILLED BEAM WITH IDENT. & CFM
	OVAL RETURN / EXHAUST DUCT - UP		AIRFLOW TRANSFER RATE AT DOOR
	OVAL RETURN / EXHAUST DUCT - DOWN		COLD DECK SUPPLY
	FIRE DAMPER		DRYER EXHAUST DUCT
	SMOKE DAMPER		DISHWASHER EXHAUST
	COMBINATION FIRE/SMOKE DAMPER		EXHAUST AIR
	MANUAL VOLUME DAMPER		GREASE EXHAUST
	MOTORIZED DAMPER		HOOD EXHAUST
	AIR FLOW MONITORING STATION		HOT DECK SUPPLY
	DIFFERENTIAL PRESSURE SENSOR		ISOLATION EXHAUST
	STATIC PRESSURE SENSOR		LAB EXHAUST
	CARBON DIOXIDE DETECTOR		OUTSIDE AIR
	CARBON MONOXIDE DETECTOR		PHARMACY EXHAUST
	DUCT SENSOR		RETURN AIR
	TRAVERSE DUCT TEST AND BALANCE		SUPPLY AIR LOW PRESSURE
	HUMIDIFIER WITH IDENTIFICATION		SUPPLY AIR MEDIUM PRESSURE
	TRANSITION		ACCESS DOOR
	RADIUS ELBOW		ABOVE FINISHED FLOOR
	SQUARE THROAT ELBOW WITH TURNING VANES		AUTOMATIC TEMPERATURE CONTROL PANEL
	BRANCH DUCT CONNECTION RECTANGULAR OR ROUND BRANCH, RECTANGULAR TRUNK. MVD REQUIRED TO AIR DEVICES		BACKDRAFT DAMPER
	RISE/DROP IN ELEVATION		BOTTOM OF DUCT
	SPLITTER WITH SPLIT SIZE SHOWN		BOTTOM OF PIPE
	SPLITTER WITH SPLIT SIZES SHOWN		DIRECT DIGITAL CONTROL
	BRANCH DUCT CONNECTION CONICAL TEE AND TAP ROUND TRUNK		INTERNAL DUCT LINING
	BRANCH DUCT CONNECTION BEVELED TEE ROUND TRUNK		FIRE DAMPER
			COMBINATION FIRE/SMOKE DAMPER
			MARINE LIGHT
			MANUAL VOLUME DAMPER
			OPPOSED BLADE DAMPER
			SMOKE DAMPER
			SCREENED OPENING
			SIDEWALL REGISTER
			SIDEWALL GRILLE
			TRANSFER GRILLE
			UNLESS NOTED OTHERWISE
			CONTROL DEVICES
			THERMOSTAT OR TEMP SENSOR
			HUMIDISTAT OR HUMIDITY SENSOR
			DIFFERENTIAL PRESSURE SENSOR
			CARBON DIOXIDE SENSOR
			CARBON MONOXIDE SENSOR
			ROOM MONITOR
			EMERGENCY POWER OFF
			NITROGEN DIOXIDE SENSOR
			REFRIGERANT SENSOR

MECHANICAL EQUIPMENT NAMING CONVENTION					
ABB.	DESCRIPTION	ABB.	DESCRIPTION	ABB.	DESCRIPTION
ATU	AIR TERMINAL UNIT	RTU	ROOFTOP PACKAGE UNIT	VFD	VARIABLE FREQUENCY DRIVE
EF	EXHAUST FAN	SAF	SUPPLY AIR FAN		
REF	RELIEF AIR FAN	SAT	SOUND ATTENUATOR		
RH	RADIANT HEAT PANEL	UH	UNIT HEATER		

SHEET INDEX - SHELL	
NUMBER	SHEET NAME
M0.0	MECHANICAL LEGEND, NAMING CONVENTION AND INDEX
M0.1	MECHANICAL SCHEDULES
M0.2	MECHANICAL COMCHECK
M0.3	MECHANICAL COMCHECK
M1.1	MECHANICAL PLAN - ROOF
M5.1	MECHANICAL DETAILS - SHELL
M7.1	MECHANICAL CONTROLS - SHELL

MECHANICAL GENERAL NOTES	
A.	CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS, AND ALL BUILDING SERVICES.
B.	STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
C.	ALL DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS IN INCHES. ALL DUCTWORK NOTED AS (D.L.) SHALL BE PROVIDED WITH INTERNAL DUCT LINING. REFER TO SPECIFICATION SECTION 230700 FOR DUCT INSULATION & LINING REQUIREMENTS.
D.	MAJOR EQUIPMENT SHOWN ON THE PLANS AND ELEVATIONS ILLUSTRATE THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE INSTALLED.
E.	SUPPORTS, ANCHOR BOLTS, AND HANGERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23 SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT SPECIFIED IN DIVISION 23 SHALL BE PART OF THE SCOPE OF WORK OF DIVISION 23.
F.	DIFFUSERS, REGISTERS, AND GRILLES SHOWN ON THE MECHANICAL DRAWINGS SHALL BE IN ACCORDANCE WITH THE AIR DISTRIBUTION DEVICE SCHEDULE AND SPECIFICATIONS. BRANCH DUCTS TO AIR DEVICES SHALL BE IN ACCORDANCE WITH THE SCHEDULE UNLESS NOTED OTHERWISE.
G.	FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN DUCTWORK PENETRATIONS THROUGH RATED PARTITIONS, WALLS, BARRIERS, FLOORS, AND SHAFTS IN ACCORDANCE WITH THE PROJECT APPLICABLE BUILDING CODES. DAMPERS SHALL MEET THE REQUIREMENTS OF THE FIRE/SMOKE RATING AND BE "UL" LABELED. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS AND RATINGS OF ALL WALLS AND FLOORS.
H.	PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.
I.	DUCTWORK AND LARGER ROUTED PARALLEL TO A RATED WALL SHALL BE INSTALLED WITH A MINIMUM 6" CLEARANCE TO ALLOW FOR INSPECTION OF WALL PENETRATIONS.
J.	DUCTWORK STORED ON-SITE AWAITING INSTALLATION SHALL REMAIN PROPERLY SEALED AND PROTECTED. OPEN ENDS OF DUCTWORK SHALL BE CAPPED AND SEALED AFTER INSTALLATION.
K.	SMOKE DETECTORS SHALL BE LOCATED AS INDICATED ON THE MECHANICAL PLANS AND IN CONFORMANCE WITH NFPA 90A AND LOCAL CODES.
L.	CEILING DIFFUSER LOCATIONS SHALL BE AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
M.	CEILING DIFFUSERS, REGISTERS AND GRILLES SHALL BE FURNISHED WITH MOUNTING FRAMES AND FEATURES IN ACCORDANCE WITH THE CEILING TYPE.
N.	PROVIDE MANUAL BALANCING VOLUME DAMPERS AT ALL LOW PRESSURE BRANCH TAKE-OFFS TO DIFFUSERS AND GRILLES FROM SUPPLY, RETURN AND EXHAUST MAINS AND SUB-MAINS, AND AT ALL LOW PRESSURE DUCT SPLITS OR SUB-MAIN TAKE-OFFS. DAMPERS SHALL BE INSTALLED ABOVE AN ACCESSIBLE CEILING OR ACCESS PANEL.
O.	DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES. REFER TO SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
P.	MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT, DAMPERS, CONTROL PANELS, VALVES, AND OTHER DEVICES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.
Q.	CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE.
R.	OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 25 FEET AWAY FROM PLUMBING VENTS, EXHAUST VENTS, AND OTHER SOURCES OF NOXIOUS FUMES AND/OR ODORS. INTAKES SHALL BE A MINIMUM OF 36" ABOVE FINISHED ROOF AND 72" ABOVE FINISHED GRADE.
S.	IN RETURN AIR PLENUM APPLICATIONS, CONTRACTOR SHALL PROVIDE MINIMUM 32" X 16" ACOUSTICALLY LINED AIR TRANSFER OPENING WITH TOP OF OPENING TIGHT TO PLENUM DECK ABOVE ROOM ENTRY DOOR IN FULL-HEIGHT WALLS. PROVIDE FIRE AND/OR SMOKE DAMPERS AT PENETRATIONS OF ALL FIRE AND SMOKE RATED WALLS AS REQUIRED TO MEET WALL RATING. PROVIDE SMOKE DETECTORS AT INLET OF EACH OPENING IN RATED SMOKE WALLS. CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THIS COORDINATION AND INSTALLATION OF AIR TRANSFER OPENINGS IN FULL-HEIGHT WALLS.



MECHANICAL COMMISSIONING COORDINATION	
A.	COMMISSIONING SHALL BE PROVIDED FOR THIS PROJECT PER THE IECC CHAPTER C408. THE COMMISSIONING AGENT SHALL BE DESIGNATED BY THE OWNER AND BE RESPONSIBLE FOR TASKS SPECIFIED BY IECC C408.2.1. MECHANICAL, TEST AND BALANCE, CONTROLS AND ELECTRICAL CONTRACTORS SHALL PROVIDE SUPPORT FOR THE COMMISSIONING AGENT AS REQUIRED BY THE COMMISSIONING PLAN.



02.26.24

Sheet Re-Issue Log  
 (Individual revisions clouded and labeled within each sheet)

Project Number  
**23987.02**  
 DATE  
**February 28, 2024**

**M0.0**  
 MECHANICAL LEGEND, NAMING CONVENTION AND INDEX



## ROOFTOP A/C UNIT SCHEDULE

**GENERAL NOTES:**  
 1. REFER TO PLANS FOR OVERALL AHU SIZE, COMPONENTS, AND ARRANGEMENT.  
 2. SEE SPECIFICATION 23-7413 FOR ADDITIONAL INFORMATION.  
 3. SUPPLY FAN TOTAL STATIC PRESSURE (TSP) INCLUDES SCHEDULED DIRTY FILTER LOSS.  
 4. FAN BRAKE HP SHALL BE NO GREATER THAN 85% OF THE MOTOR HP IN NORMAL OPERATING CONDITIONS.  
 5. DRAIN PAN IN FAN SECTIONS FOR DRAIN THRU CONFIGURATIONS.  
 6. PROVIDE PREMIUM EFFICIENCY MOTORS.  
 7. EXTERNAL STATIC PRESSURE (ESP) PERTAINS TO DUCTWORK AND EXTERNAL COMPONENTS ONLY.  
 8. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.

9. REFRIGERANT FOR ALL DX UNITS SHALL BE R410A.  
 10. ALL FANS IN AIR HANDLING UNITS ARE MEDIUM PRESSURE.  
 11. ALL AIR HANDLING UNITS ARE MEDIUM PRESSURE.  
 12. COOLING COIL (DX) LATE INCLUDES FAN HEAT.  
 13. COOLING COIL (DX) CAPACITIES INCLUDE FAN HEAT.  
 14. FILER LOSS BASED OFF AIR FILTER SCHEDULE MID-LIFE RESISTANCE.  
 15. 85 KA RMS SYMMETRICAL SCRR RATING

**REMARKS:**  
 A. TSP INCLUDES DIRTY FILTER LOSS.  
 B. VARIABLE SPEED COMPRESSORS WITH 15% MIN TURNDOWN.  
 C. ECONOMIZER WITH FAN/DAMPER MODULATION.  
 D. SINGLE POINT PWR W/ INTEGRAL FUSED DISCONNECT  
 E. UNIT MOUNTED CONTROL PANEL  
 F. VFD ON SUPPLY AND RELIEF FAN(S).  
 G. 120V CONVENIENCE RECEPTACLE  
 H. 2" MERV-8 PREFILTER.  
 I. 4" MERV-14 FINAL FILTER.  
 J. SUPPLY FAN WITH FACTORY MOUNTED VFD AND SHAFT GROUNDING KIT.  
 K. RELIEF FAN EQUIPPED WITH SHAFT GROUNDING KITS.  
 L. OA MEASURING STATION.  
 M. NATURAL GAS PREHEAT WITH MAXITROL BURNER CONTROL.  
 N. 3" OF SPRING ISOLATION ROOF CURB FOR SEISMIC DESIGN CATEGORY "D". REFER TO SPECIFICATION 23-0549.  
 O. PIEZOMETER RING AIRFLOW MEASUREMENT ON SUPPLY FAN

DESIGNATION	AREA SERVED	MANUFACTURER	MODEL NUMBER	NOMINAL TONS	UNIT ELECTRICAL			UNIT EER	SUPPLY FAN										SF MOTOR					COOLING COIL					HOT GAS REHEAT COIL			CONDENSER		COMPRESSOR		RELIEF FAN				REF MOTOR				HEATING COIL					REMARKS
					VOLTAGE	MCA (A)	MOP (A)		CFM	OUTSIDE AIR		ESP (IN. WG)	TSP (IN. WG)	TOTAL FILTER LOSS (IN. WG)	TYPE	QTY	BHP (EA)	HP (EA)	RPM	MAX. FV (FPM)	EAT DB/WB (° F)	LAT DB/WB (° F)	CAPACITY MBTUH	ROWS /FF	REFRIG.	EAT DB/WB (° F)	LAT DB/WB (° F)	CAPACITY MBTUH	QTY FANS	HP (EA)	QTY	TONS (EA)	CFM	ESP (IN. WG)	TSP (IN. WG)	TYPE	QTY	BHP	HP	RPM	EAT (° F)	LAT (° F)	CAPACITY (MBTUH)	GAS PRESSURE (PSI)	GAS CFH	UNIT OPERATING WEIGHT (LBS)			
										MIN.	MAX.																																						
RTU-1-1	MOB	JCI	PREMIER	50	208/3	320	400	10.7	12200	2770	12200	3.75	5.52	1.5	DDP	1	17.4	25	1302	475	80/67	54/53.6	561.5	4/17	R410A	54/53.6	66.1/56.8	195	4	2	4	7.5/8.5/10/13	12200	0.5	0.77	FC	1	2.3	5	361	45	93.2	608	0.5	730	10,000	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O		
RTU-1-2	MOB	JCI	PREMIER	50	208/3	320	400	10.7	12200	2770	12200	3.75	5.52	1.5	DDP	1	17.4	25	1302	475	80/67	54/53.6	561.5	4/17	R410A	54/53.6	66.1/56.8	195	4	2	4	7.5/8.5/10/13	12200	0.5	0.77	FC	1	2.3	5	361	45	93.2	608	0.5	730	10,000	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O		

## FAN SCHEDULE

**GENERAL NOTES:**

1. MOTOR H.P. SHALL COMPLY WITH ASHRAE 90.1.  
 2. BHP SHALL BE NO GREATER THAN 90% OF THE MOTOR H.P.  
 3. CFM AT SITE ELEVATION OF 1000 FT. STATIC PRESSURE AT SEA LEVEL.  
 4. FAN EFFICIENCY GRADE (FEG) PER AMCA 208. TOTAL FAN EFFICIENCY AT DESIGN POINT OF OPERATION SHALL BE WITHIN 15% OF THE MAX TOTAL FAN EFFICIENCY.  
 5. FAN EFFICIENCY INDEX (FEI) AT THE DESIGN POINT OF OPERATION PER AMCA 208. FEI FOR FAN ARRAYS SHALL BE CALCULATED PER AMCA 208 ANNEX C.

**FAN TYPES:**

PRE - POWER ROOF EXHAUSTER.

**STARTER TYPES / ACCESS:**

MAG-X-L - COMBINATION MAGNETIC ACROSS THE LINE STARTER.  
 MMS - MANUAL MOTOR STARTER.  
 VFD - VARIABLE FREQUENCY DRIVE.  
 EP - EMERGENCY POWER.

**ACCESSORIES:**

1. WEATHERPROOF HOUSING.  
 2. HOUSING DRAIN.  
 3. OUTLET SCREEN.  
 4. MOTORIZED OUTLET DAMPERS.  
 5. ROOF CURB (18" HIGH).  
 7. SOLID STATE SPEED CONTROLLER (PRE-WIRED).  
 8. ELECTRONICALLY COMMUNICATED MOTOR (ECM).  
 9. CONTROL CIRCUIT TRANSFORMER IN MOTOR STARTER.  
 10. DISCONNECT SWITCH IN FAN HOUSING (PRE-WIRED).

**REMARKS:**

A. ALUMINUM WHEEL AND HOUSING.  
 B. TEFC MOTOR.

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	TYPE	CFM	ESP (IN. WG)	DRIVE	MOTOR				STARTER	EP	MAX. SONES	ROOF / WALL OPENING	OPERATING WEIGHT (LBS)	ACCESSORIES	REMARKS	
								BHP	MIN. HP	RPM	VOLTAGE								
EF-1-1	GENERAL	GREENHECK	G-100-VG	PRE	1580	0.5	DIRECT	0.35	1/2	1456	115	1	MMS	N	13.5	12x12	100	1,3,5,8,10	A,B
EF-1-2	GENERAL	GREENHECK	G-090-VG	PRE	600	0.5	DIRECT	0.08	1/4	1595	115	1	MMS	N	7.7	10x10	100	1,3,5,8,10	A,B
EF-2-1	GENERAL	GREENHECK	G-100-VG	PRE	1580	0.5	DIRECT	0.35	1/2	1456	115	1	MMS	N	13.5	12x12	100	1,3,5,8,10	A,B
EF-2-2	GENERAL	GREENHECK	G-090-VG	PRE	500	0.5	DIRECT	0.08	1/4	1595	115	1	MMS	N	7.7	10x10	100	1,3,5,8,10	A,B

## PROJECT DESIGN CONDITIONS

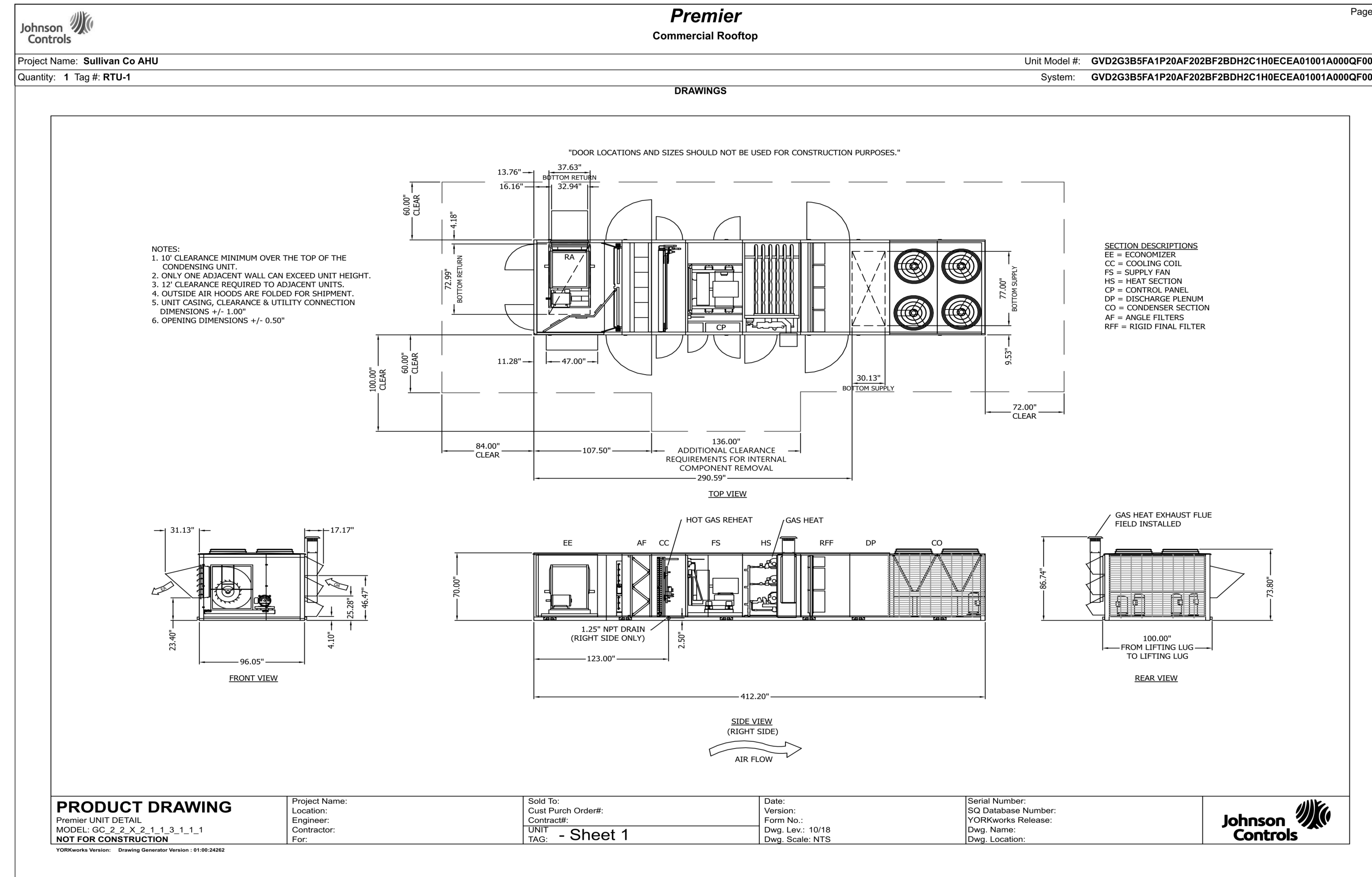
**ABBREVIATIONS**

DB = DRY BULB TEMPERATURE  
 WB = WET BULB TEMPERATURE  
 MCOB = MEAN COINCIDENT DRY BULB TEMPERATURE  
 MCWB = MEAN COINCIDENT WET BULB TEMPERATURE

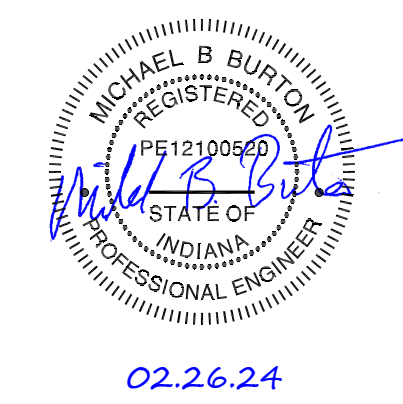
**GENERAL NOTES**

(1) BASED ON ASHRAE 2021 HANDBOOK - FUNDAMENTALS  
 (2) DESIGN WINTER OUTDOOR AIR TEMPERATURE IS 9.6% VALUE MINUS 10 DEG F.

WEATHER STATION	LATITUDE	LONGITUDE	ELEVATION (FT.)	COOLING			EVAPORATION		HEATING	
				0.4%			0.4%		5-YEAR LOW	
				HOTTEST MONTH	DB (°F)	MCWB (°F)	WB (°F)	MCOB (°F)	COLDEST MONTH	DB (°F)
ROBINSON, IL, USA	39.016N	87.65W	462	JULY	92.8	75.5	79.8	88.3	JANUARY	4.3



Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
 Sullivan, Indiana



02.26.24  
 Sheet Re-Issue Log  
 (Individual revisions clouded and labeled within each sheet)

Project Number  
**23987.02**  
 DATE  
**February 28, 2024**

**M0.1**  
 MECHANICAL  
 SCHEDULES



# COMcheck Software Version 4.1.5.3 Mechanical Compliance Certificate

### Project Information

Energy Code: 90.1 (2007) Standard  
Project Title: Sullivan, Indiana  
Location: Sullivan, Indiana  
Climate Zone: 4a  
Project Type: New Construction

Construction Site: 2200 North Section Street, Sullivan, IN 47882  
Owner/Agent:  
Designer/Contractor: Kevin Smith, Smith Seckman Reid, Inc., 2995 Sisco Drive, Nashville, TN 37204, 615-460-0588, kmsmith@ssr-inc.com

### Mechanical Systems List

- Quantity System Type & Description
1 RTU-1 (Multiple-Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 608 kBtu/h...
1 RTU-2 (Multiple-Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 608 kBtu/h...
1 DAC-1 (Single Zone w/ ParimeterSystem): Heating: 1 each - Other Electric, Capacity = 48 kBtu/h...
2 WH-1, 2:

Quantity System Type & Description
Electric Storage Water Heater, Capacity: 80 gallons w/ Circulation Pump
Proposed Efficiency: 0.83 EF, Required Efficiency: 0.82 EF

### Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kevin Smith, MECHANICAL ENGINEER, Date: 5/1/24

# COMcheck Software Version 4.1.5.3 Inspection Checklist

Requirements: 100.0% were addressed directly in the COMcheck software. Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Table with 4 columns: Section # & Req.ID, Plan Review, Complies?, Comments/Assumptions. Rows include 4.2.2, 6.4.2, 6.4.1, 6.7.2.

### Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: T:\Team42\2023\23420970 - SCCH MOB Shell and Buildout\Discipline Design\Comcheck\Sullivan Page 3 of 12

Table with 5 columns: Section # & Req.ID, Footing / Foundation Inspection, Plans Verified Value, Field Verified Value, Complies?, Comments/Assumptions. Row 6.4.3.8.

### Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: T:\Team42\2023\23420970 - SCCH MOB Shell and Buildout\Discipline Design\Comcheck\Sullivan Page 4 of 12

Table with 5 columns: Section # & Req.ID, Plumbing Rough-In Inspection, Complies?, Comments/Assumptions. Rows 7.4.3, 7.4.4.1, 7.4.4.2.

### Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: T:\Team42\2023\23420970 - SCCH MOB Shell and Buildout\Discipline Design\Comcheck\Sullivan Page 1 of 12

Table with 6 columns: Section # & Req.ID, Mechanical Rough-In Inspection, Plans Verified Value, Field Verified Value, Complies?, Comments/Assumptions. Rows 6.4.1.4, 6.4.3.4, 6.4.3.4.2, 6.4.3.4.3, 6.4.3.4.4, 6.4.3.4.5, 6.4.3.9, 6.4.4.1.1, 6.4.4.1.2, 6.4.4.1.3, 6.4.4.2.1, 6.4.4.2.2, 6.4.4.2.2.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: T:\Team42\2023\23420970 - SCCH MOB Shell and Buildout\Discipline Design\Comcheck\Sullivan Page 6 of 12

Table with 6 columns: Section # & Req.ID, Mechanical Rough-In Inspection, Plans Verified Value, Field Verified Value, Complies?, Comments/Assumptions. Rows 6.5.2.3, 6.5.3.1.2, 6.5.3.2.1, 6.5.3.2.2, 6.5.3.2.2, 6.5.3.2.3, 6.5.3.2.3, 6.5.4.1, 6.5.6.1, 6.5.7.1.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

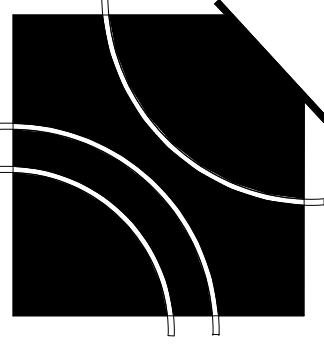
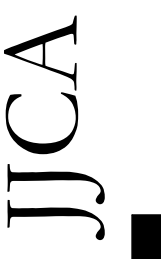
Project Title: T:\Team42\2023\23420970 - SCCH MOB Shell and Buildout\Discipline Design\Comcheck\Sullivan Page 7 of 12

Table with 6 columns: Section # & Req.ID, Mechanical Rough-In Inspection, Plans Verified Value, Field Verified Value, Complies?, Comments/Assumptions. Rows 6.5.7.2, 6.5.8.1, 6.5.9, 7.4.2.

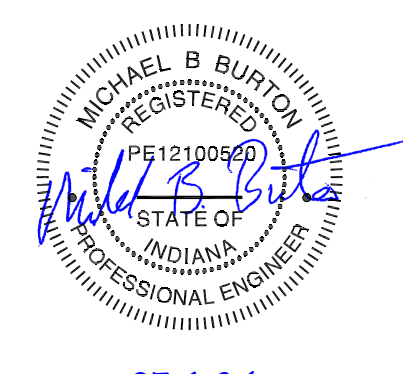
### Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Freestanding Medical Office Building Shell for: Sullivan County Community Hospital, Sullivan, Indiana



03.1.24

Sheet Re-Issue Log (Individual revisions clouded and labeled within each sheet)

Project Number 23987.02

DATE February 28, 2024

M0.2 MECHANICAL COMCHECK

Project Number 23987.02

DATE February 28, 2024

M0.2 MECHANICAL COMCHECK



Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
10.4.1 (EL07)	Electric motors meet requirements where applicable.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
6.4.3.1.1 (F12)	Heating and cooling to each zone is controlled by a thermostat control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.1.2 (F12)	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.3 (F14)	Systems with air capacity >10,000 cfm include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.3 (F14)	Systems with air capacity >10,000 cfm include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.7 (F16)	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.1 (F17)	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.2 (F18)	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.3 (F19)	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft <sup>2</sup> of conditioned area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.4 (F110)	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
7.4.4.3 (F111)	Public lavatory faucet water temperature <= 119°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
7.4.4.4 (F112)	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.2 (F120)	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
6.4.3.3.1 (F121)	HVAC systems equipped with at least one automatic shutdown control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.2 (F122)	Setback controls allow automatic restart and temporary operation as required for maintenance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.4 (F123)	Zone isolation devices and controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> null.
6.4.3.3.4 (F123)	Zone isolation devices and controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> null.

**Additional Comments/Assumptions:**

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Data filename: T:\Team4\2023\23420970 - SCCH MOB Shell and Buildout\Discipline Design\Comcheck\Sullivan Page 12 of 12  
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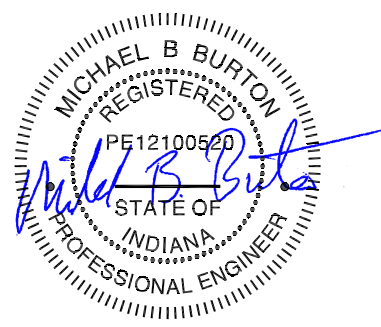
Project Title: T:\Team4\2023\23420970 - SCCH MOB Shell and Buildout\Discipline Design\Comcheck\Sullivan Page 9 of 12  
Data filename: T:\Team4\2023\23420970 - SCCH MOB Shell and Buildout\Discipline Design\Comcheck\Sullivan Page 9 of 12  
ComCheck.cck

JJCA



SSR Smith Seckman Reid, Inc.

Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
Sullivan, Indiana



03.1.24

Sheet Re-Issue Log  
(Individual revisions clouded and labeled within each sheet)

Project Number  
**23987.02**  
DATE  
**February 28, 2024**

**M0.3**  
MECHANICAL  
COMCHECK



Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.6.1 [ME46]	Exhaust air energy recovery on systems meeting Table 6.5.6.1			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
6.5.7.1.1 [ME32]	Kitchen hoods >5,000 cfm have make-up air =>50% of exhaust air volume.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
6.5.7.1.2 [ME46]	Conditioned supply air to space with a kitchen hood shall not exceed the greater of a) supply flow required to meet space heating or cooling, or b) hood exhaust flow minus the available air transfer from available spaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
6.5.7.1.2 [ME46]	Conditioned supply air to space with a kitchen hood shall not exceed the greater of a) supply flow required to meet space heating or cooling, or b) hood exhaust flow minus the available air transfer from available spaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
6.5.7.1.2 [ME46]	Conditioned supply air to space with a kitchen hood shall not exceed the greater of a) supply flow required to meet space heating or cooling, or b) hood exhaust flow minus the available air transfer from available spaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
6.5.7.1.5 [ME49]	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
6.5.7.2 [ME33]	Fume hoods exhaust systems >=13,000 cfm have VAV hood exhaust and supply systems, direct make-up air or heat recovery.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
6.5.8.1 [ME34]	Unenclosed spaces that are heated use only radiant heat.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
6.5.9 [ME35]	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.5.9 [ME35]	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
7.4.2 [ME36]	Service water heating equipment meets efficiency requirements.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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ComCheck.cck Report date: 02/26/24

**Additional Comments/Assumptions:**

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
10.4.1 [EL9]	Electric motors meet requirements where applicable.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
6.4.3.1.1 [F27]	Heating and cooling to each zone is controlled by a thermostat control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.1.1 [F27]	Heating and cooling to each zone is controlled by a thermostat control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.1.2 [F13]	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.2 [F20]	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.1 [F12]	HVAC systems equipped with at least one automatic shutdown control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.2 [F22]	Setback controls allow automatic restart and temporary operation as required for maintenance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.3 [F14]	Systems with air capacity >10,000 cfm include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.3 [F14]	Systems with air capacity >10,000 cfm include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.4 [F23]	Zone isolation devices and controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Zones and systems intended to operate continuously or are inoperative when all other zones are inoperative.
6.4.3.3.4 [F23]	Zone isolation devices and controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Zones and systems intended to operate continuously or are inoperative when all other zones are inoperative.
6.4.3.7 [F16]	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.1 [F17]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.2 [F18]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Data filename: T:\Team42\2023\23420970 - SCCH MOB Shell and Buildout\Discipline Design\Comcheck\Sullivan Page 12 of 14  
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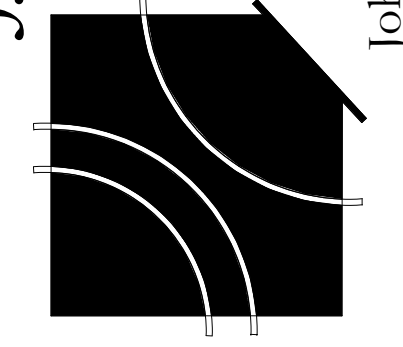
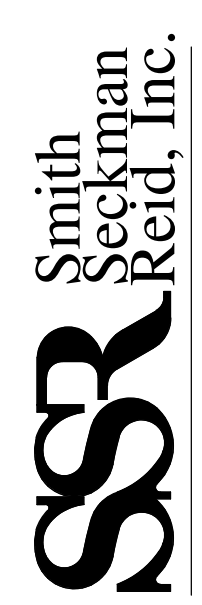
Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
6.7.2.3 [F19]	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft <sup>2</sup> of conditioned area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.4 [F10]	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
7.4.4.3 [F11]	Public lavatory faucet water temperature <=110°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
7.4.4.4 [F12]	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
10.4.3 [F14]	Elevators are designed with the proper lighting, ventilation power, and standby mode.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.

**Additional Comments/Assumptions:**

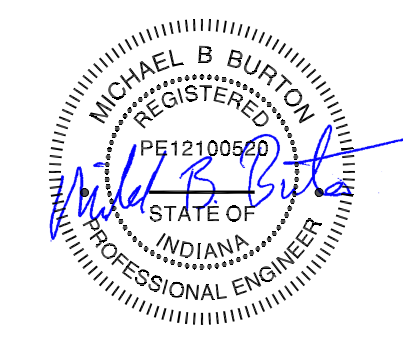
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ComCheck.cck Report date: 02/26/24



Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
Sullivan, Indiana



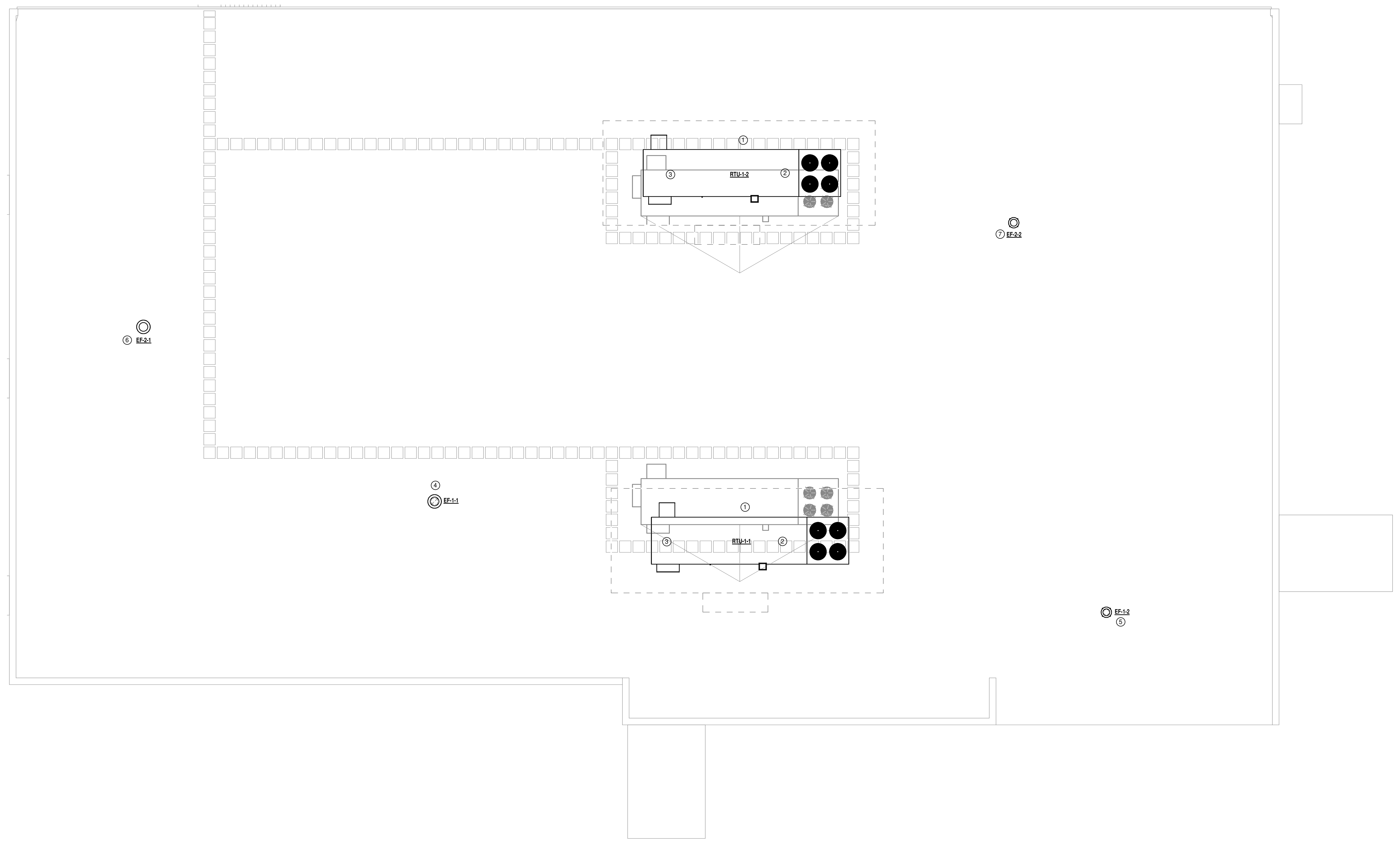
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Sheet Re-Issue Log  
(Individual revisions clouded and labeled within each sheet)

Project Number  
**23987.02**  
DATE  
**February 28, 2024**

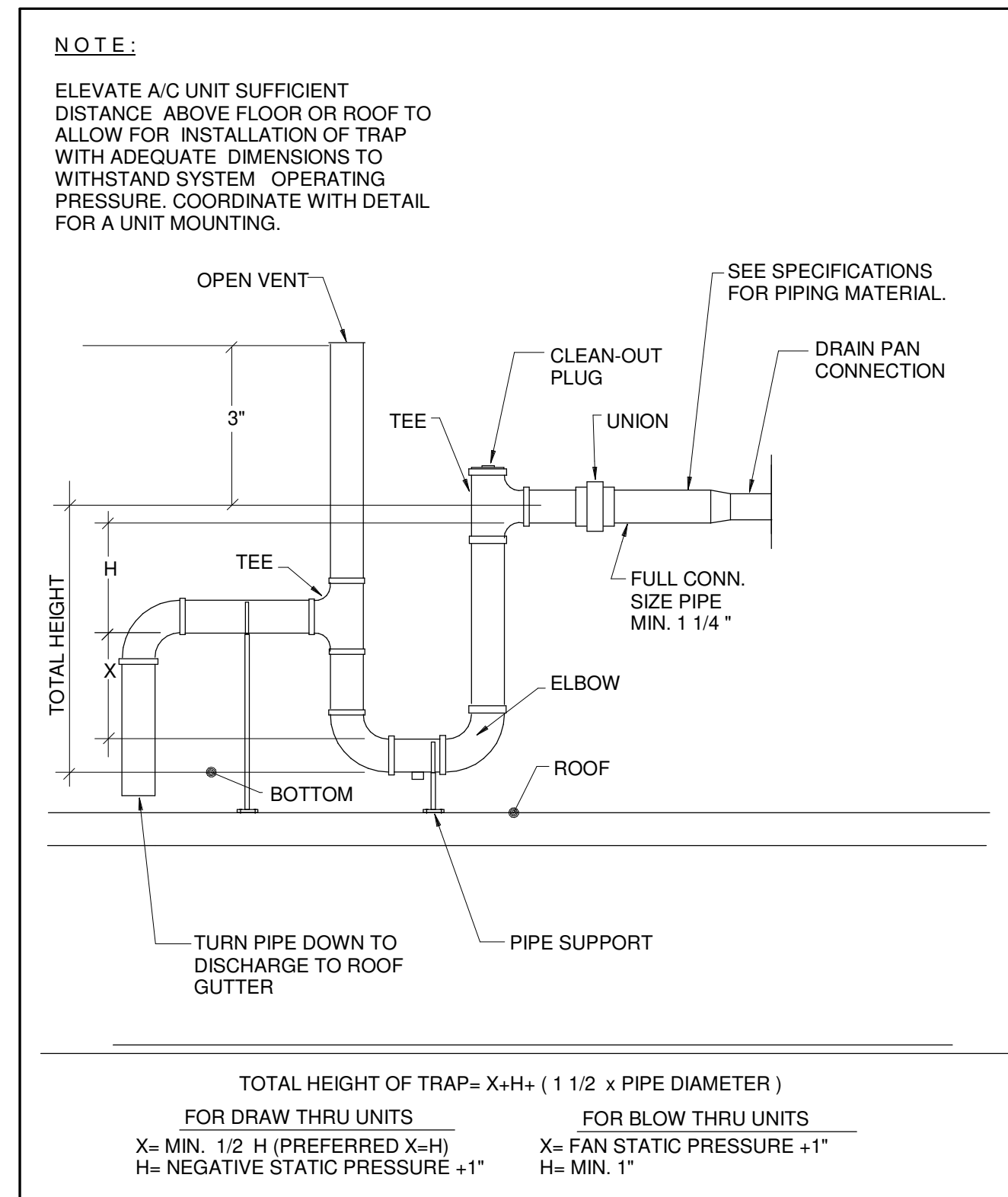
**M0.3**  
MECHANICAL  
COMCHECK

- SHEET KEYED NOTES**
- ① ROOFTOP UNIT ON SPRING ISOLATION CURB. REFER TO SPECIFICATION 23-0549. COORDINATE EXACT LOCATION WITH STRUCTURAL FRAMING PLAN.
  - ② 30"x78" SUPPLY DUCT DOWN FROM RTU ON ROOF INTO SHELL SPACE BELOW. EXTEND A MINIMUM OF 2' BELOW ROOF DECK. OFFSET DUCT AS NECESSARY WITHIN CURB TO ALIGN WITH FRAMED OPENING. EXTERNALLY INSULATE WITH 1-1/2" FIBERGLASS INSULATION.
  - ③ 38"x74" RETURN DUCT DOWN FROM RTU ON ROOF INTO SHELL SPACE BELOW. EXTEND A MINIMUM OF 2' BELOW ROOF DECK. OFFSET DUCT AS NECESSARY WITHIN CURB TO ALIGN WITH FRAMED OPENING. EXTERNALLY INSULATE WITH 1-1/2" FIBERGLASS FOR NOISE ATTENUATION.
  - ④ 18"x16" EXHAUST DOWN FROM EF-1-1 INTO SHELL SPACE BELOW. EXTEND A MINIMUM OF 2' BELOW ROOF DECK. COORDINATE EXACT DROP WITH STRUCTURAL FRAMING.
  - ⑤ 12"x10" EXHAUST DOWN FROM EF-1-2 INTO SHELL SPACE BELOW. MINIMUM 2' BELOW ROOF DECK. COORDINATE EXACT DROP WITH STRUCTURAL FRAMING.
  - ⑥ 16"x16" EXHAUST DOWN FROM EF-2-1 INTO SHELL SPACE BELOW. MINIMUM 2' BELOW ROOF DECK. COORDINATE EXACT DROP WITH STRUCTURAL FRAMING.
  - ⑦ 12"x12" EXHAUST DOWN FROM EF-2-2 INTO SHELL SPACE BELOW. MINIMUM 2' BELOW ROOF DECK. COORDINATE EXACT DROP WITH STRUCTURAL FRAMING.

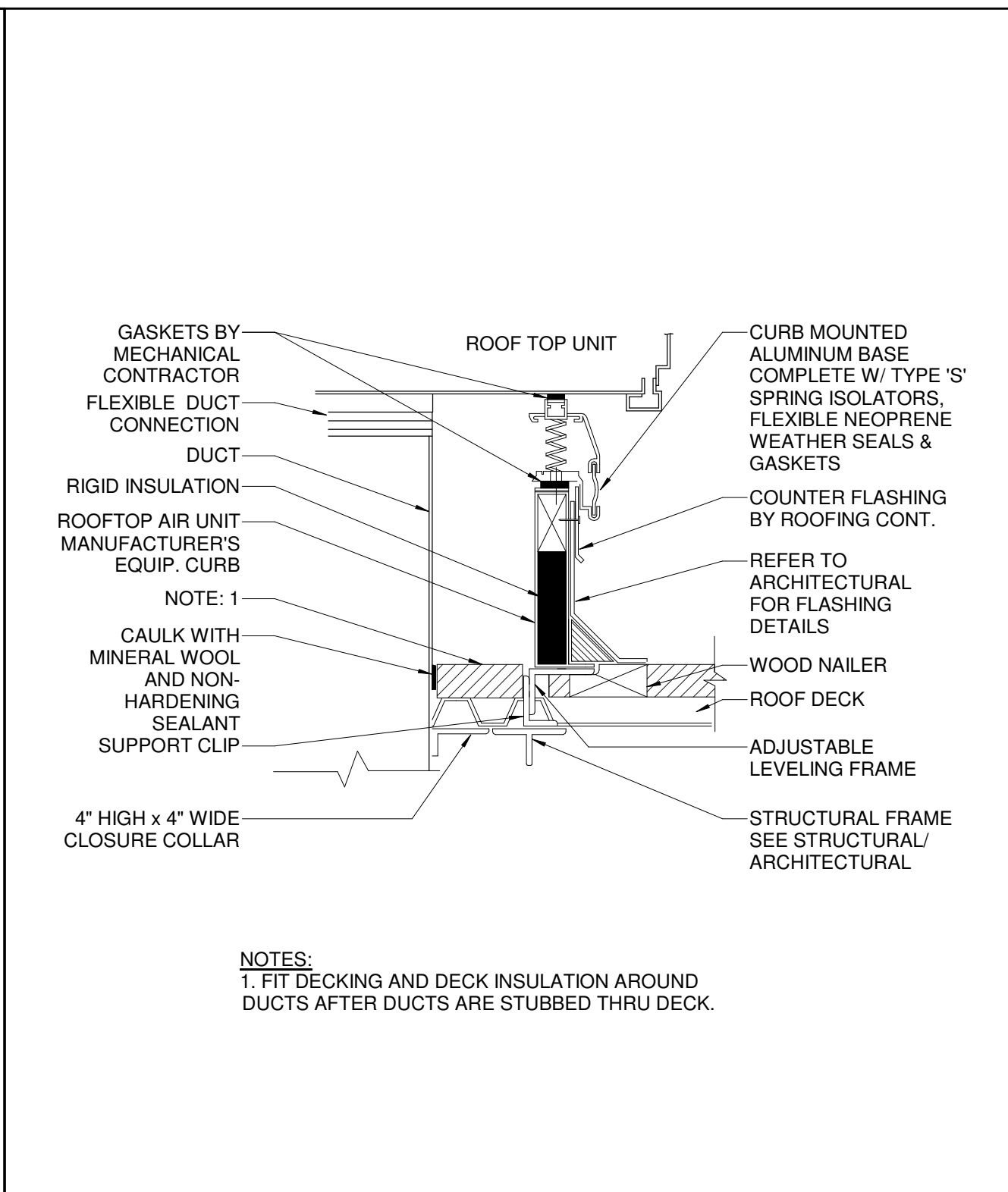


**1** MECHANICAL PLAN - ROOF  
1/8" = 1'-0"

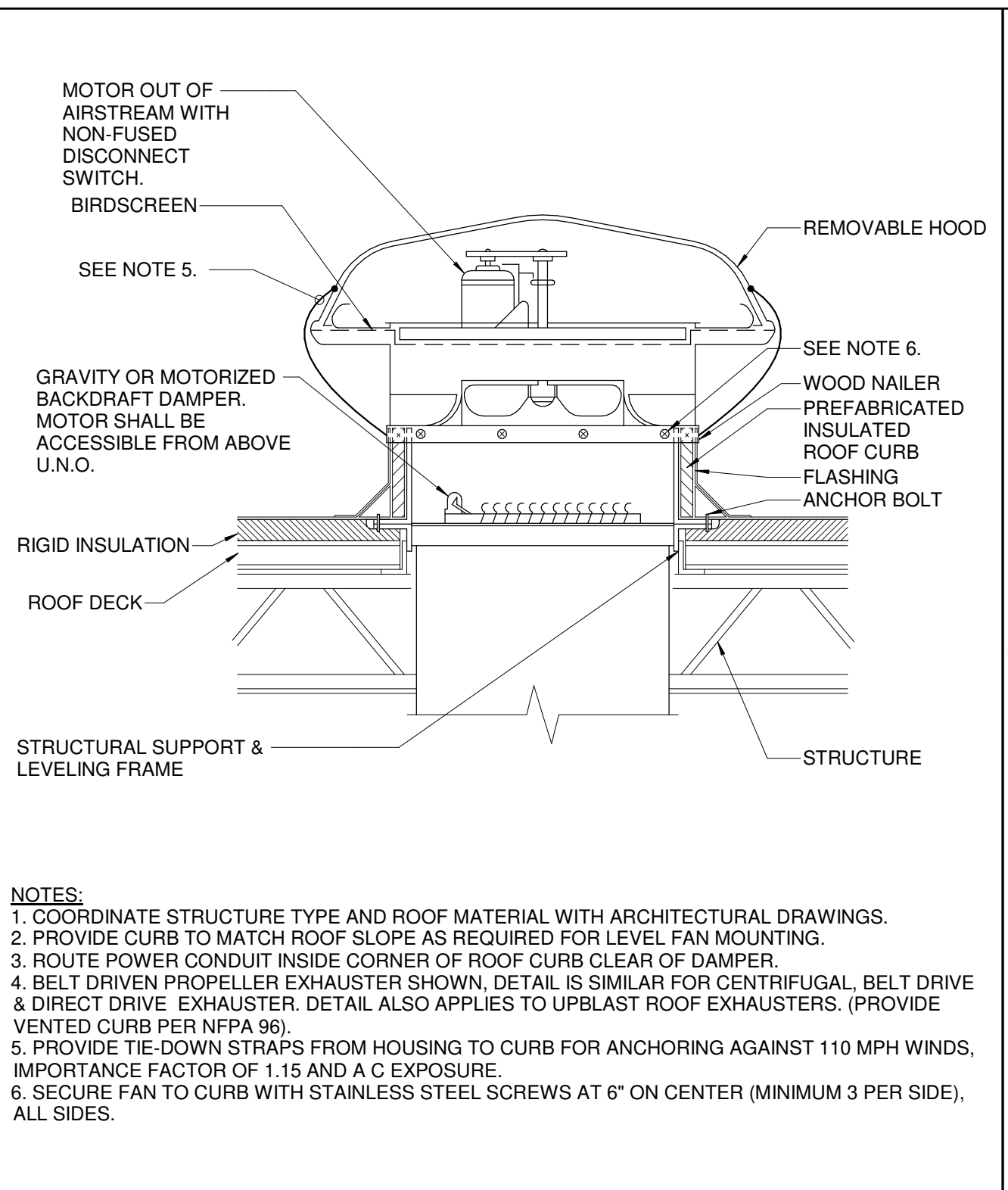




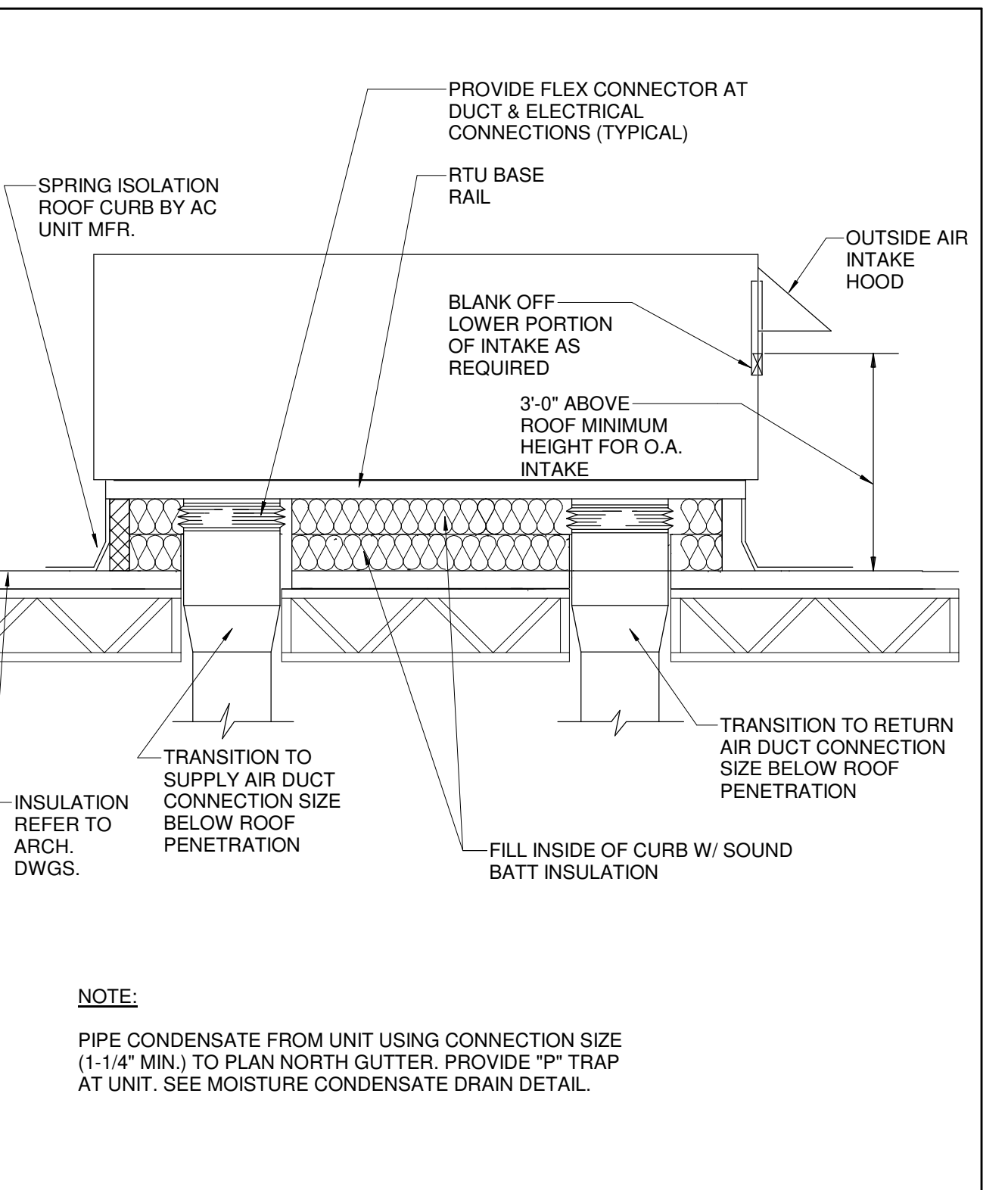
COOLING COIL CONDENSATE DRAIN      4



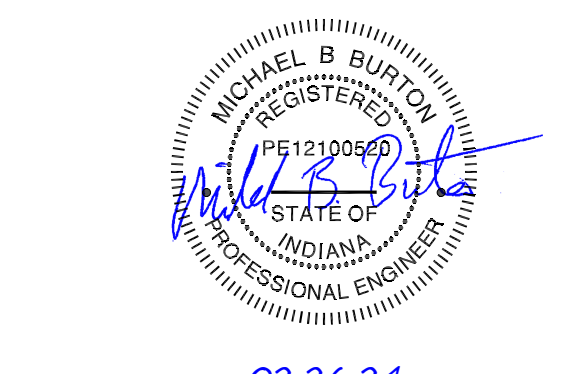
4 SPRING ISOLATION CURB ROOF TOP UNIT MOUNTING      3



3 POWER ROOF EXHAUSTER (P.R.E.) MOUNTING      2



2 ROOFTOP A/C UNIT      1

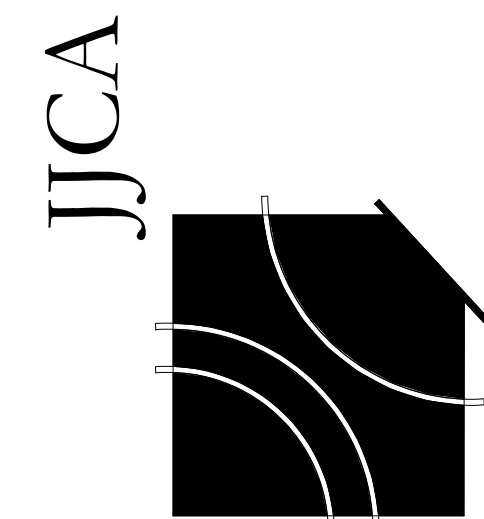


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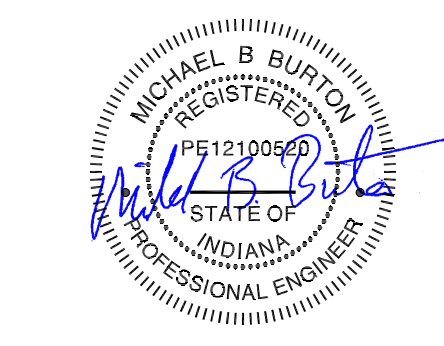
Project Number  
**23987.02**  
DATE  
**February 28, 2024**

**M5.1**  
MECHANICAL  
DETAILS - SHELL





Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
 Sullivan, Indiana



02.26.24

Sheet Re-Issue Log  
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Project Number  
**23987.02**

DATE  
**February 28, 2024**

**M7.1**  
 MECHANICAL CONTROLS - SHELL

## GENERAL REQUIREMENTS FOR CONTROL SYSTEMS

- ALL SETPOINTS, ALARM VALUES, POLLING QUANTITIES/SELECTIONS, TIME DURATIONS AND OTHER CONTROL PARAMETERS SHALL BE USER ADJUSTABLE VIA GRAPHIC DISPLAY AND NOT FROM THE PROGRAM OR THROUGH LAYERS OF SOFTWARE NAVIGATION.
- ALL DAMPERS AND VALVES SHALL BE ABLE TO ACCEPT MANUAL OVERRIDE OF POSITION VIA GRAPHIC DISPLAY.
- ALL POINTS LISTED IN THE SIGNAL LEGEND SHALL BE SHOWN ON GRAPHICAL DISPLAY.
- PROVIDE WEB BASED CONTROL SYSTEM WITH OWNER LOGIN AND 8 HOURS MINIMUM TRAINING.
- IF ANY PIECE OF EQUIPMENT IS COMMANDED ON AND FAILS TO START, THE BAS SHALL SEND A FAILURE ALARM. IF THERE ARE MULTIPLE PIECES OF SAME EQUIPMENT TYPE, BAS SHALL START THE NEXT EQUIPMENT IN ROTATION.
- ALL PID LOOPS ASSOCIATED WITH ANY OF THE SEQUENCES SHOULD BE TUNED AND ABLE TO ACHIEVE STEADY STATE IN 5 MINUTES OR LESS WITH MAXIMUM NOISE (OSCILLATION) OF 2% - 4%.
- DAMPERS WILL BE POSITIONED SUCH THAT 0% IS FULLY CLOSED AND 100% IS FULLY OPEN. SEE SPECIFIC SEQUENCES TO DETERMINE POSITION FEEDBACK REQUIREMENTS.
- FAN VFDS WILL BE CONTROLLED SUCH THAT 0% = 0 HZ AND 100% = DESIGN FLOW. TAB SHALL DETERMINE, SET AND DOCUMENT FAN VFD SPEED AND HZ THAT CORRESPONDS TO 100% DESIGN FLOW.

## DX AC UNIT CONTROLS SCHEDULE (27-50 TONS)

UNIT OPERATION	MULTIZONE VAV	UNIT MODULATES COMPRESSOR TO MAINTAIN DISCHARGE AIR TEMP SETPOINT; FAN RUNS VARIABLE SPEED TO MAINTAIN SUPPLY DUCT STATIC PRESSURE SETPOINT; SP SENSOR BY A/C MFR.
<b>ECONOMIZER</b>	0-100% DRY BULB, RELIEF FAN, VARIABLE VOLUME RELIEF	UNIT STOPS COMPRESSOR WHEN OAT < DISCHARGE AIR TEMP SETPOINT, MODULATES RETURN, RELIEF AND OUTSIDE AIR DAMPERS TO MAINTAIN DISCHARGE AIR TEMP SETPOINT, MODULATES SUPPLY AND RELIEF FAN SPEEDS TO MAINTAIN BLDG PRESSURE.
<b>HEATING</b>	GAS HEAT	MODULATING HEAT TO MAINTAIN RETURN AIR TEMP SETPOINT (SINGLE ZONE) OR DISCHARGE AIR TEMP SETPOINT (MULTIZONE).
<b>ZONE CONTROL</b>	MULTI ZONE VAV; SPACE ZONE SENSORS (MULTIZONE VAV)	REMOTE TEMPERATURE SENSORS AT VAV BOXES; SEE VAV BOX CONTROL.
<b>COMMUNICATION</b>	TOUCHSCREEN PAD WITH LED DISPLAY BACNET INTERFACE TO GENERIC BAS	LOCATE PER OWNER DIRECTION.
<b>CONTROL FEATURES</b>	HUMIDITY CONTROL USING HOT GAS REHEAT RETURN AIR TEMP SENSOR STATUS DISCHARGE AIR TEMP SENSOR STATUS OUTSIDE AIR MEASURING SMOKE DAMPER OPEN VERIFICATION BEFORE FAN START INTERLOCKED EXHAUST FANS SHALL START/STOP WITH UNIT	UNIT CYCLES COMPRESSOR AND USES MODULATING HOT GAS IN REHEAT POSITION TO MAINTAIN SPACE HUMIDITY MAX SETPOINT; SPACE HUMIDITY SENSOR BY A/C MFR. STATUS INDICATION TO COMMUNICATION EQUIPMENT. STATUS INDICATION TO COMMUNICATION EQUIPMENT. STATUS INDICATION TO COMMUNICATION EQUIPMENT. N/A. EF-1-1, EF-1-2
<b>SAFETIES</b>	CONDENSATE PAN OVERFLOW FAN SHUTDOWN FAN FAILURE INDICATION	UNIT SHALL SHUT DOWN UPON ACTIVATION; PROVIDE ALARM NOTIFICATION THRU COMMUNICATION EQUIPMENT. STATUS INDICATION TO COMMUNICATION EQUIPMENT.
<b>FIRE ALARM CONTROL</b> (COORDINATE W/ F.A. VENDOR) (TO BE INSTALLED DURING TENANT FITOUT)	FIRE ALARM INTERFACE SUPPLY DUCT SMOKE DETECTOR RETURN DUCT SMOKE DETECTOR	UNIT SHALL SHUT DOWN UPON SIGNAL BY FIRE ALARM. INSTALL WITH NO DUCT BRANCHES BETWEEN UNIT AND DETECTOR. INSTALL WITH NO DUCT BRANCHES BETWEEN UNIT AND DETECTOR.

## SEQUENCE OF OPERATION

FOR RTU-1-1 AND RTU-2-2

### CONTROL OVERVIEW

CONTROL SYSTEM SHALL BE FULLY SELF CONTAINED. UNIT CONTROLLER SHALL CONNECT TO WIFI AND ALLOW ALL SETPOINTS TO BE ADJUSTED AT THE INTEGRAL SCREEN OR ON A BAS WEBSITE LOGIN PROVIDED TO THE OWNER.

UNIT SHALL OPERATE IN MULTI-ZONE MODE WITH AIR TERMINAL UNITS AS LISTED ON SCHEDULES SHEET.

OCCUPIED MODE TO BE DETERMINED BY USER ADJUSTABLE SCHEDULE BASED ON OWNER PROVIDED OPERATING HOURS. PROVIDE WARM UP AND COOL DOWN PER OPTIMAL START BASED ON ZONE TEMPERATURE AND OCCUPIED TEMPERATURE SETPOINT.

PROVIDE COAST FUNCTION TO ALLOW OF 1 HOUR (ADJ) PRIOR TO THE TRANSITION FROM OCCUPIED TO UNOCCUPIED. OPERATIONAL COOLING AND HEATING SETPOINTS SHALL BEGIN TO INCREASE OR DECREASE LINEARLY AT 1 DEG F PER HOUR TOWARDS UNOCCUPIED COOLING AND HEATING SETPOINTS.

SENSORS TO BE PROVIDED WITH UNIT:

- DISCHARGE AIR TEMPERATURE
- DISCHARGE AIR HUMIDITY
- RETURN AIR TEMPERATURE
- RETURN AIR HUMIDITY
- OUTSIDE AIR TEMPERATURE
- OUTSIDE AIR HUMIDITY
- OUTSIDE AIR FLOW MEASURING STATION
- MIXED AIR TEMPERATURE
- SUPPLY DUCT STATIC PRESSURE
- SUPPLY FAN PIEZOMETER AIRFLOW MEASURING
- BUILDING PRESSURE (FOR EXHAUST FAN)
- SMOKE DETECTOR
- CARBON DIOXIDE (FOR DEMAND CONTROL VENTILATION, TO BE INSTALLED DURING TENANT BUILD OUT)
- ZONE LEVEL TEMPERATURE SENSORS (TO BE INSTALLED DURING TENANT BUILD OUT)

SUPPLY FAN SHALL CIRCULATE AIR TO CONDITION THE TEMPERATURE OF THE SPACE AND PROVIDE VENTILATION.

- SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE.
- SUPPLY FAN SHALL RUN INTERMITTENTLY DURING UNOCCUPIED.

WHEN THE FAN ENERGIZES, THE OUTPUT FROM THE CONTROLLER SHALL MAINTAIN THE SUPPLY DUCT PRESSURE TO THE DUCT PRESSURE SETPOINT AS DETERMINED BY THE TEST AND BALANCE CONTRACTOR.

- IF THE DUCT PRESSURE IS GREATER THAN THE DUCT PRESSURE SETPOINT, THE SUPPLY FAN OUTPUT SHALL DECREASE.
- IF THE DUCT PRESSURE IS LESS THAN THE DUCT PRESSURE SETPOINT, THE SUPPLY FAN OUTPUT SHALL INCREASE.
- IF THE DUCT PRESSURE REACHES THE DUCT PRESSURE SHUTDOWN SETPOINT, THE FAN AND OTHER OUTPUTS OF THE UNIT SHALL DE-ENERGIZE AND ALARM THE BAS.

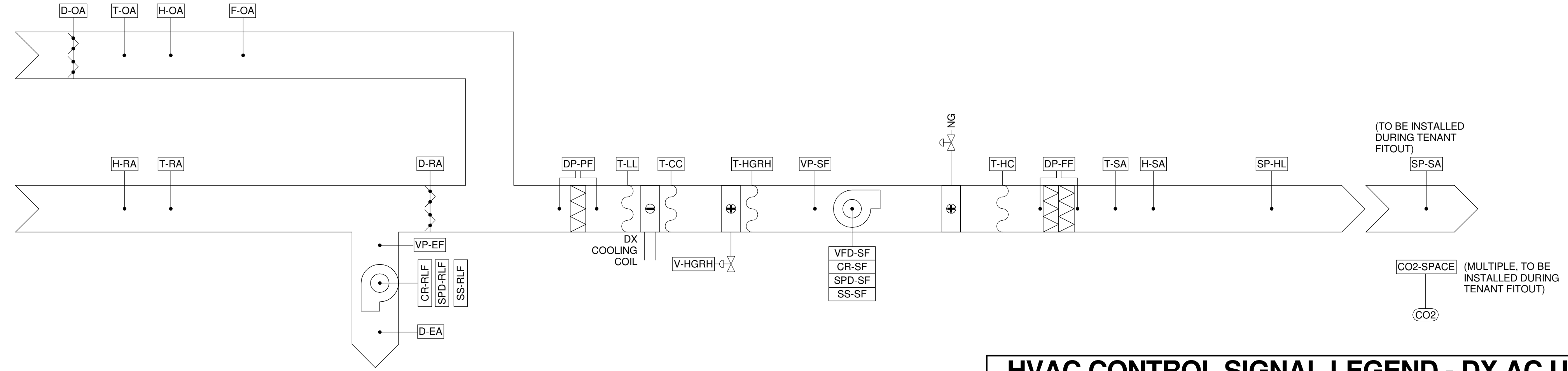
DISCHARGE AIR TEMPERATURE SETPOINT SHALL RESET BASED ON OUTDOOR AIR TEMPERATURE. IN COOLING MODE, THE UNIT SHALL DISCHARGE AIR AT 55 DEG F WHEN OUTDOOR AIR IS 95 DEGREES AND LINEARLY ADJUST TO DISCHARGE AIR AT 65 DEG F WHEN OUTDOOR AIR IS AT 65 DEG F. THE UNIT SHALL STAGE/MODULATE COMPRESSORS TO MAINTAIN DISCHARGE AIR SETPOINT. IN HEATING MODE, THE UNIT SHALL DISCHARGE AIR AT 65 DEG F AT WHEN OUTDOOR AIR IS 25 DEGREES AND LINEARLY ADJUST TO DISCHARGE. IN HEATING MODE, THE UNIT SHALL STAGE/MODULATE GAS HEATING AS NECESSARY TO MAINTAIN DISCHARGE AIR SETPOINT.

ECONOMIZER AND POWERED RELIEF FAN SHALL PROVIDE FREE COOLING AT OUTDOOR AIR TEMPERATURES BELOW 65 DEG F DRY BULB. UNIT SHALL MODULATE ECONOMIZER DAMPER, RETURN DAMPER AND RELIEF FAN AS NECESSARY TO SATISFY ALL ZONE COOLING DEMANDS. ECONOMIZER SHALL BE DE-ENERGIZED AT OUTDOOR AIR TEMPERATURES OF 55 DEG F AND LESS. IF THE ECONOMIZER IS ENERGIZED WITH THE DAMPER OPEN TO 100% AND ZONES ARE NOT SATISFIED, UNIT SHALL STAGE/MODULATE COMPRESSORS TO MAINTAIN ZONE COOLING SETPOINT.

DEMAND CONTROL VENTILATION SHALL BE PROGRAMMED DURING THE TENANT BUILD OUT. THE UNIT CONTROLLER SHALL MONITOR CO2 LEVELS IN ZONES WITH CO2 SENSORS. IF THE CO2 LEVEL RISES ABOVE THE CO2 SETPOINT, THE UNIT SHALL TEMPORARILY INCREASE THE MINIMUM OA DAMPER POSITION TO INCREASE VENTILATION. IF THE CO2 LEVEL DROPS BELOW THE CO2 SETPOINT, THE UNIT SHALL DECREASE THE MINIMUM OA DAMPER POSITION TO MINIMIZE VENTILATION. REFER TO TENANT CONTROLS ON M7.2 FOR CO2 SETPOINTS.

UNIT CONTROLLER SHALL MONITOR DIFFERENTIAL PRESSURE ACROSS FILTER BANKS AND INITIATE AN ALARM IF PRESSURE DROP EXCEEDS HIGH LIMIT SETPOINTS.

ALL FIRE ALARM CONTROLS SHALL BE INSTALLED DURING THE TENANT BUILD OUT.

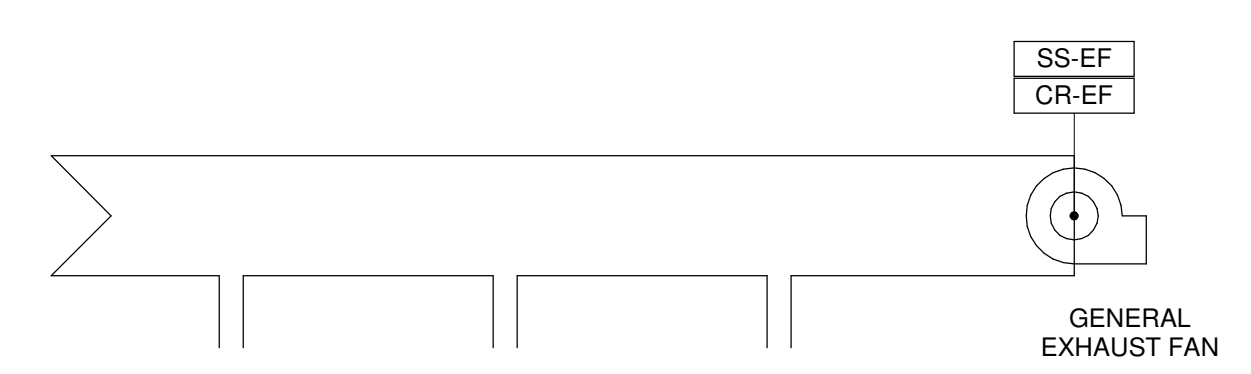


## 1 SCHEMATIC - DX AC UNIT CONTROLS

NOT TO SCALE

## HVAC CONTROL SIGNAL LEGEND - DX AC UNIT

TAG	DEVICE
CO2-SPACE	CARBON DIOXIDE LEVEL
CR-RLF	CURRENT RELAY - RELIEF AIR FAN
CR-SF	CURRENT RELAY - SUPPLY FAN
D-EA	DAMPER - EXHAUST/RELIEF AIR
D-OA	DAMPER - OUTSIDE AIR
D-RA	DAMPER - RETURN AIR
DP-PF	DIFFERENTIAL PRESSURE - FINAL FILTER
DP-PP	DIFFERENTIAL PRESSURE - PRE FILTER
F-OA	OUTSIDE AIRFLOW
H-OA	RELATIVE HUMIDITY - OUTSIDE AIR
H-RA	RELATIVE HUMIDITY - RETURN AIR
H-SA	RELATIVE HUMIDITY - SUPPLY AIR
SP-HL	STATIC PRESSURE - DUCT HIGH LIMIT
SP-SA	STATIC PRESSURE - SUPPLY AIR
SPD-RLF	SPEED CONTROL - RELIEF AIR FAN
SPD-SF	SPEED CONTROL - SUPPLY FAN
SS-RLF	START/STOP - RELIEF FAN
SS-SF	START/STOP - SUPPLY FAN
T-CC	TEMPERATURE - COOLING COIL LEAVING
T-HC	TEMPERATURE - HEATING COIL LEAVING
T-HGRH	TEMPERATURE - HOT GAS REHEAT LEAVING
T-LL	TEMPERATURE - LOW LIMIT
T-OA	TEMPERATURE - OUTSIDE AIR
T-RA	TEMPERATURE - RETURN AIR
T-SA	TEMPERATURE - SUPPLY AIR
V-HGRH	VALVE - HOT GAS REHEAT
VFD-SF	VARIABLE FREQUENCY DRIVE - SUPPLY FAN
VP-EF	VELOCITY PRESSURE - EXHAUST FAN INLET
VP-SF	VELOCITY PRESSURE - SUPPLY FAN INLET



GENERAL EXHAUST FAN

EXHAUST FAN INTERLOCKED WITH AIR HANDLING UNIT AND RUN CONTINUOUSLY.  
 THE EF SHALL START/STOP PER INTERLOCKED SIGNAL FROM AIR HANDLING UNIT.  
 FIRE ALARM AND ASSOCIATED INTERLOCK WITH HVAC EQUIPMENT TO BE INSTALLED DURING TENANT BUILD OUT.

## EXHAUST FAN INTERLOCKED WITH AIR HANDLING UNIT

FAN INTERLOCK SCHEDULE			
FAN ID	FAN LOCATION	AREA SERVED	INTERLOCKED WITH AHU
EF-1-1	ROOF	MOB NORTH EAST	RTU-1-1
EF-1-2	ROOF	MOB SOUTH EAST	RTU-1-1

## HVAC CONTROL SIGNAL LEGEND - FANS

SEE SHEET M0.1 FOR GENERAL REQUIREMENTS FOR CONTROL SYSTEMS							
TAG	DEVICE	ACTION	FAIL POSITION	BAS VALUE	BAS ALARM	DIRECT CONTROL BY FIRE ALARM	NOTES
PHYSICAL POINTS							
CR-EF	CURRENT RELAY - EXHAUST FAN	B		ON/OFF	MOTOR FAILURE		ALARM IF MOTOR STATUS NOT EQUAL TO COMMAND
SS-EF	START/STOP - EXHAUST FAN	B					

## 2 SCHEMATIC - FANS

NOT TO SCALE



### SHELL - PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS AND ALL BUILDING SERVICES. EXISTING SITE UTILITIES SHALL BE FIELD LOCATED FOR EXACT LOCATION AND ELEVATION BEFORE BEGINNING CONSTRUCTION OR DEMOLITION.
- COORDINATE WATER, WASTE, VENT, RAIN WATER AND OTHER PIPING WITH ALL TRADES TO AVOID SPACING AND ROUTING PROBLEMS.
- STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
- PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.
- DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.
- SUPPORTS, ANCHOR BOLTS AND HANGERS FOR ALL EQUIPMENT SPECIFIED SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT AND PIPING SYSTEMS SPECIFIED SHALL BE FURNISHED AND INSTALLED AS PART OF THE WORK.
- MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT AND VALVES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE. COORDINATE SLEEVING OF BEAMS AND CORING OF STRUCTURE WITH STRUCTURAL DRAWINGS AND DETAILS PRIOR TO INSTALLATION.
- ALL SANITARY AND STORM WATER PIPING BELOW GRADE IN AREAS SUBJECT TO TRAFFIC WITH LESS THAN TWO FEET OF EARTH COVER SHALL BE DUCTILE IRON.
- A DOUBLE WYE OR DOUBLE COMBINATION WYE AND 1/8 BEND FITTING IS NOT ACCEPTABLE IN A HORIZONTAL POSITION FOR A DRAINAGE SYSTEM.

### ALL PLUMBING LEGEND

\*\*NOT ALL SYMBOLS MAY BE USED\*\*

SYMBOL	ABB.	DESCRIPTION	SYMBOL	ABB.	DESCRIPTION
	CW	DOMESTIC COLD WATER			PIPE TURN DOWN
	CW	DOM. COLD WATER (BELOW)			PIPE TURN UP
	W	WASTE (BELOW)			BALL VALVE
	F	FIRE MAIN (UNDERGROUND)			GATE VALVE
	G	NATURAL GAS			CHECK VALVE
	F	FIRE MAIN (ABOVE)			BALANCING VALVE
					BUTTERFLY VALVE
				PRV	PRESSURE REGULATING VALVE
					SOLENOID VALVE
		STORM WATER STACK ID SIZE   SYSTEM-STACK ID (UP/DN) SIZE   SQUARE FEET   GPM			REDUCER
		OVERFLOW DRAIN STACK ID SIZE   SYSTEM-STACK ID (UP/DN) SIZE   SQUARE FEET   GPM			PIPE GUIDE
		FIRE RISER ID SIZE   SYSTEM-RISER ID (UP/DN)			ANCHOR
		ACID WASTE/VENT STACK ID SIZE   SYSTEM-STACK ID (UP/DN)			PRESSURE GAUGE
		SANITARY WASTE STACK ID SIZE   SYSTEM-STACK ID (UP/DN) DRAINAGE FIXTURE UNITS   GPM			PRESSURE SWITCH WITH DEMAND CHECK FITTING
					THERMOMETER
					CAP/PLUG
				CO	CLEANOUT (ABOVE CEILING)
					UNION
				PR	PRESSURE RELIEF VALVE
		CEILING SPRINKLER - UPRIGHT			SHOCK ARRESTOR
		CEILING SPRINKLER - CONCEALED			HOSE BIBB / WALL HYDRANT
		CEILING SPRINKLER - RECESSED PENDANT			
		SIDEWALL SPRINKLER		FCO	FLOOR CLEAN OUT
		SIDEWALL EXTENDED COVERAGE SPRINKLER		WCO	WALL CLEAN OUT
		WALL HUNG FIRE EXTINGUISHER		FD	FLOOR DRAIN
		FIRE EXTINGUISHER CABINET		VTR	VENT THRU ROOF
		FIRE DEPARTMENT CONNECTION		I.E.	INVERT ELEVATION
	WC	WATER COLUMN		AFF	ABOVE FINISHED FLOOR
	ECO/GCO	EXTERIOR CLEANOUT/GRADE CLEANOUT		DCVA	DOUBLE CHECK VALVE ASSEMBLY
				DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY

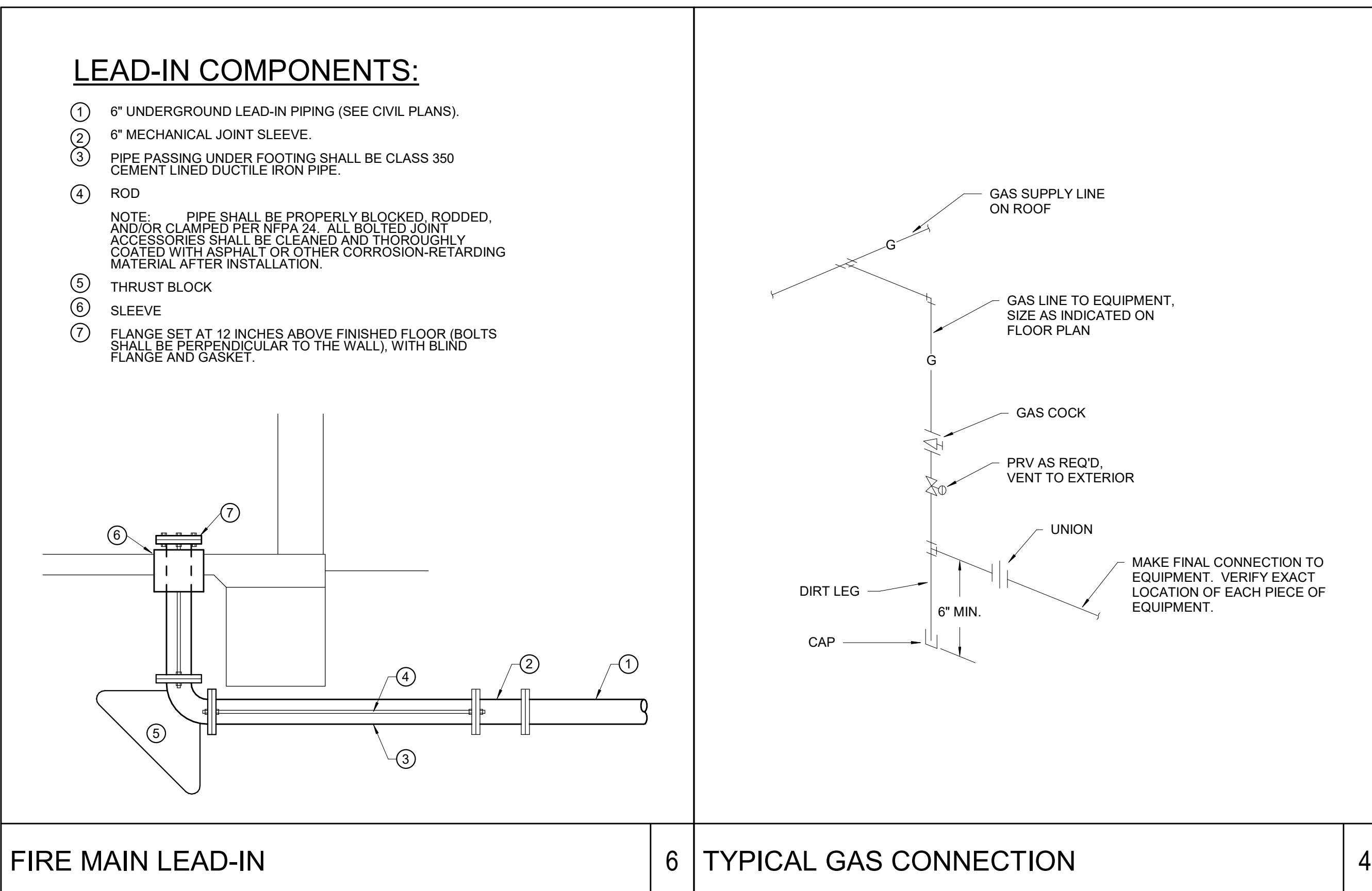
### PIPING MATERIALS SCHEDULE

**GENERAL NOTES:**  
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.

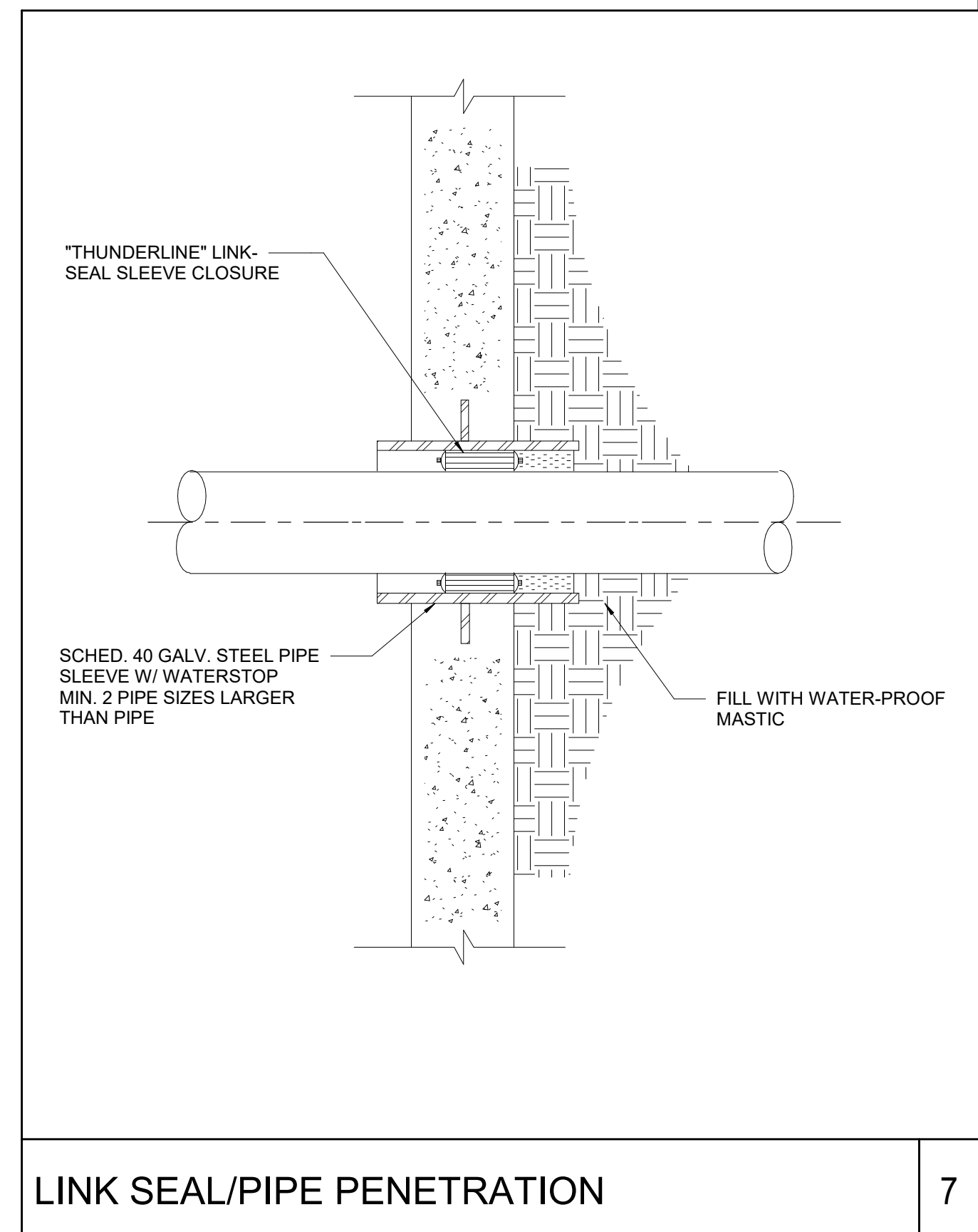
PLUMBING SYSTEM	PLUMBING MATERIAL DESCRIPTION
SANITARY DRAIN PIPING	STANDARD WEIGHT CAST IRON PIPE, BELL & SPIGOT JOINTS (BELOW SLAB)
SANITARY DRAIN PIPING	STANDARD WEIGHT CAST IRON PIPE, WITH NO HUB JOINTS (ABOVE SLAB)
VENT PIPING	STANDARD WEIGHT CAST IRON PIPE, WITH NO HUB JOINTS (ABOVE SLAB)
DOMESTIC WATER PIPING (ABOVE SLAB)	TYPE "L", COPPER TUBING, WITH WROUGHT COPPER FITTINGS (ASTM B88).
DOMESTIC WATER PIPING (BELOW SLAB)	TYPE "K", COPPER TUBING, WITH BRAZED WROUGHT COPPER FITTINGS (ASTM B88).
FIRE PROTECTION PIPING	SCHEDULE 40 BLACK STEEL PIPE, WITH CAST IRON FITTINGS (PIPE SIZES 2" AND SMALLER)
FIRE PROTECTION PIPING	SCHEDULE 40 BLACK STEEL PIPE, WITH CUT GROOVE FITTINGS (PIPE SIZES 2 1/2" AND LARGER) SCHEDULE 10 BLACK STEEL PIPE, WITH ROLL GROOVE FITTINGS (PIPE SIZES 4" AND LARGER)

### SHEET INDEX

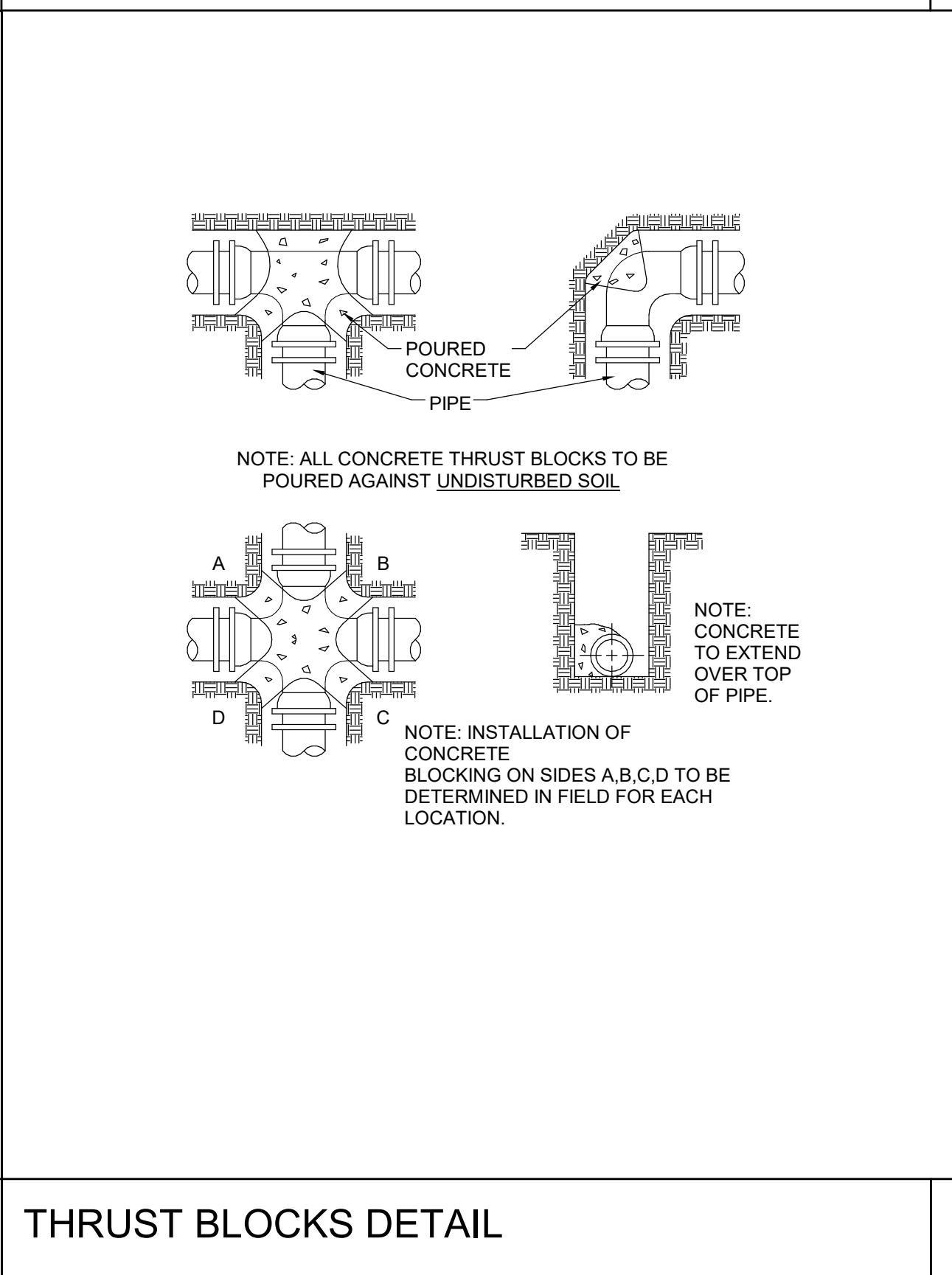
NUMBER	SHEET NAME
P0.0	PLUMBING GENERAL NOTES, LEGENDS, INDEX, AND DETAILS - SHELL
P1.0	PLUMBING PLAN - SUB SURFACE DRAINAGE SYSTEM - SHELL
P1.1	PLUMBING AND FIRE PROTECTION PLAN - SHELL



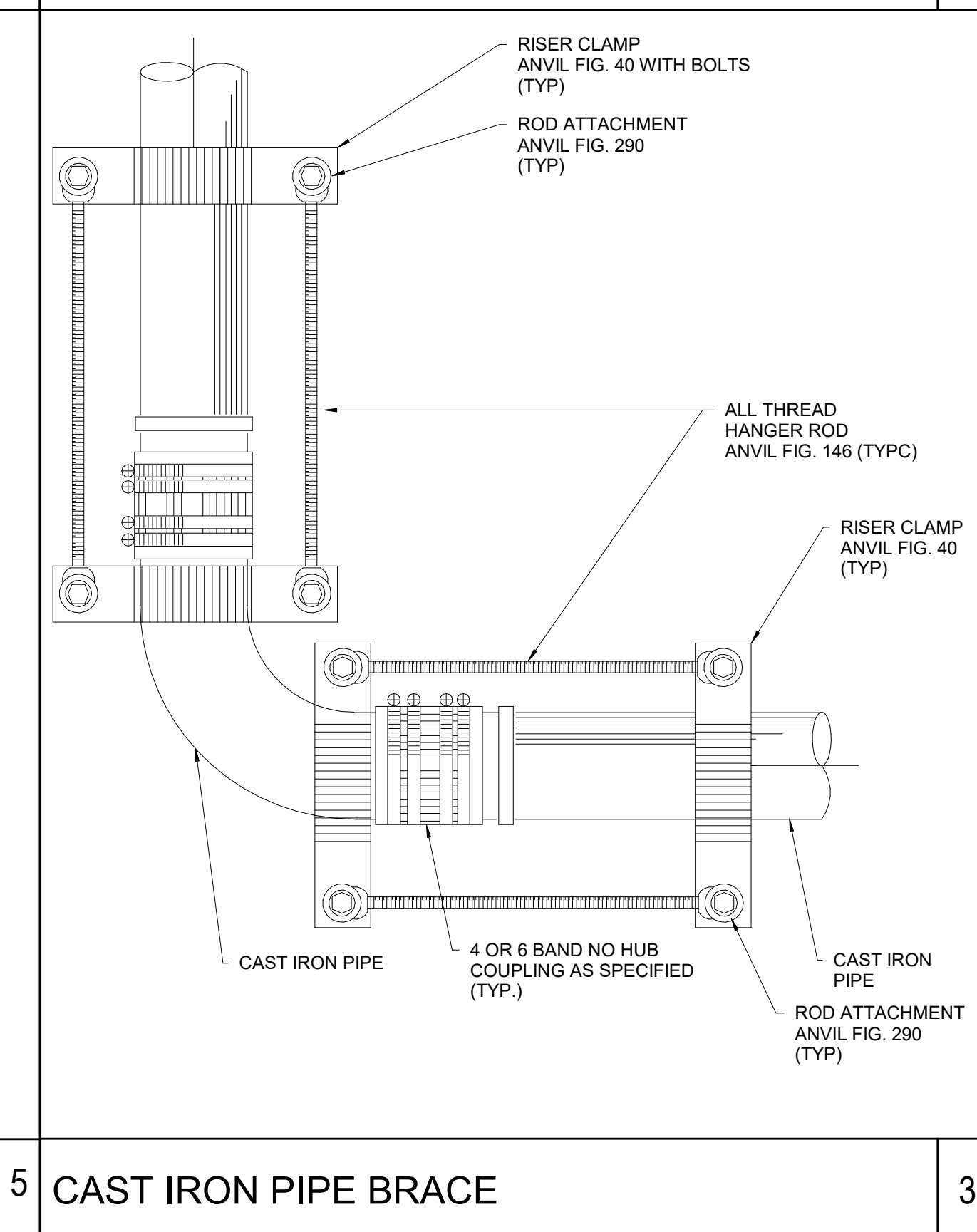
FIRE MAIN LEAD-IN 6 TYPICAL GAS CONNECTION 4



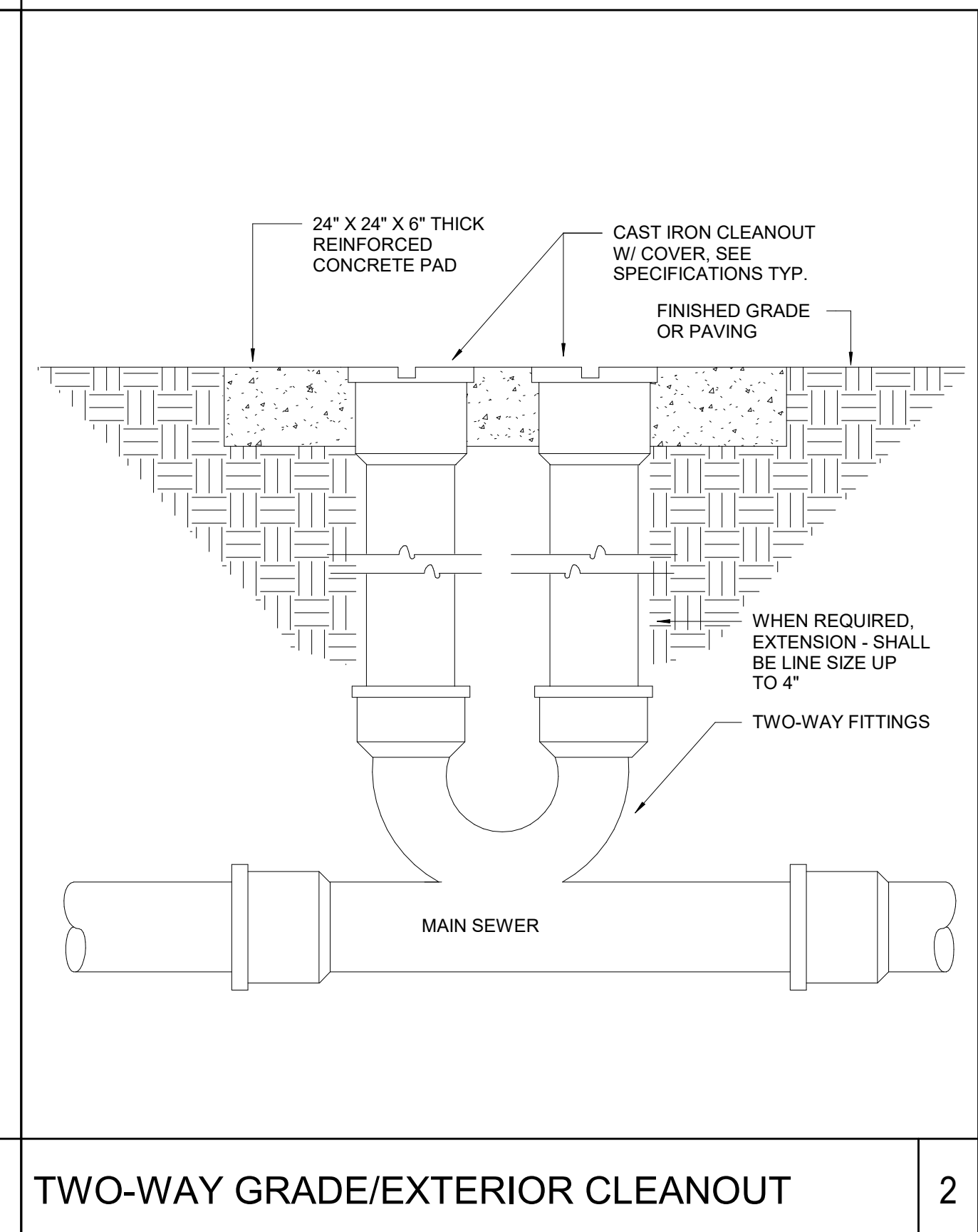
LINK SEAL/PIPE PENETRATION 7



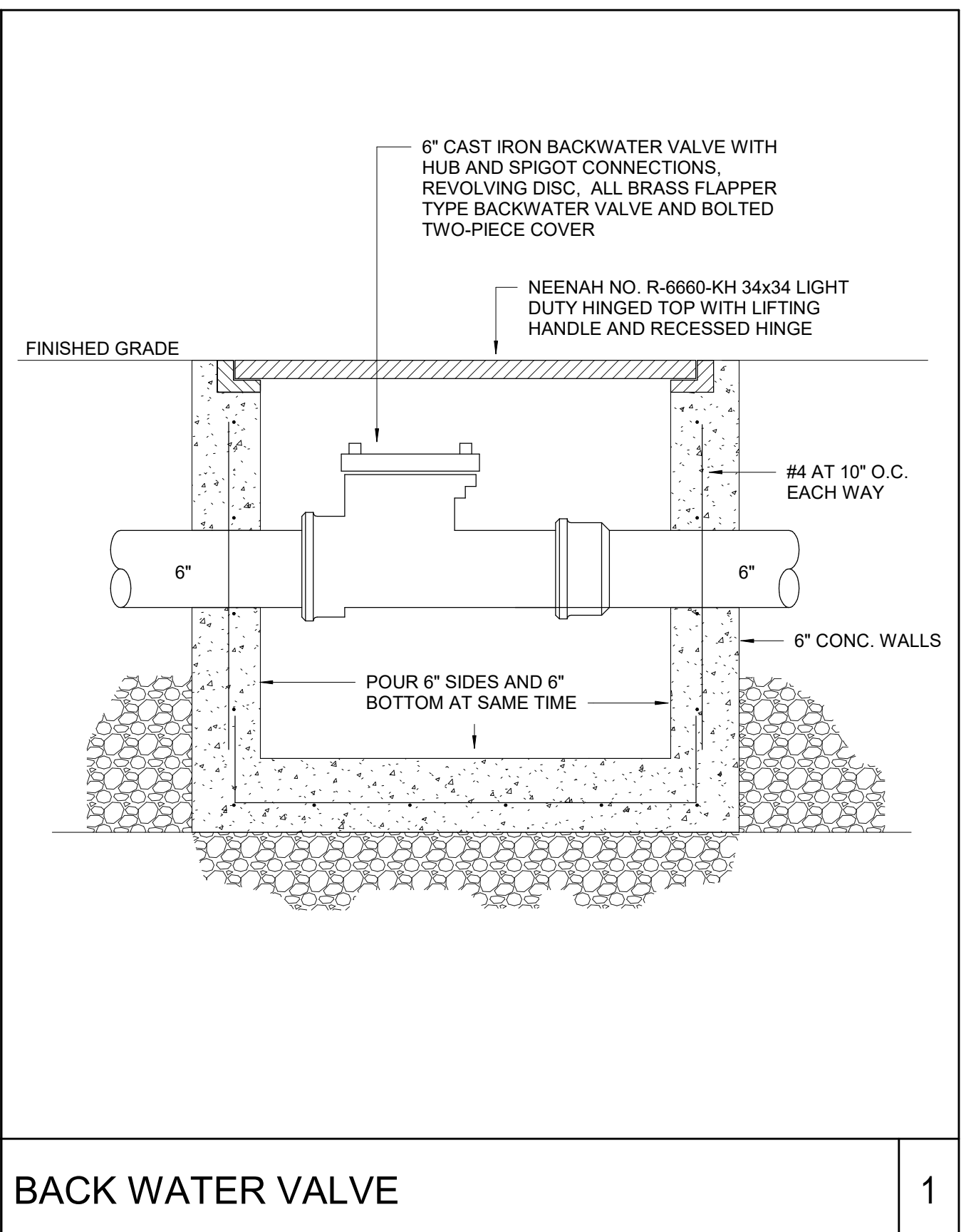
THRUST BLOCKS DETAIL 5



CAST IRON PIPE BRACE 3



TWO-WAY GRADE/EXTERIOR CLEANOUT 2



BACK WATER VALVE 1

Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
Sullivan, Indiana

JJCA

Smith Seckman Reid, Inc.

Johnson Crabtree Architects P.C.

4551 Transcendence Drive Nashville, TN 37204  
Tel: 615.837.0656 Fax: 615.837.0657

MICHAEL B. BURTON  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF INDIANA  
No. 151100660

02.26.24

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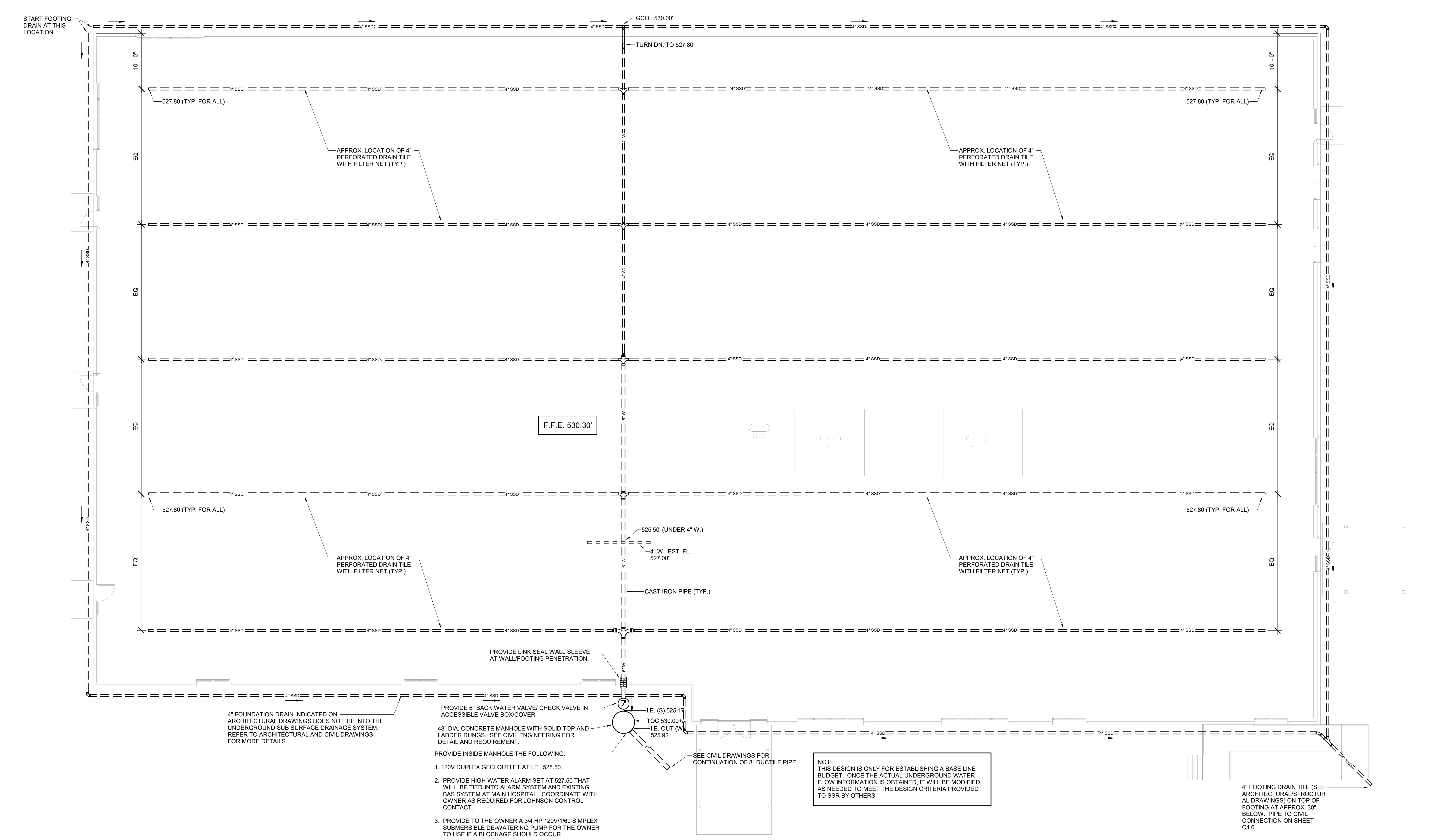
DATE  
**February 28, 2024**

P0.0

PLUMBING GENERAL NOTES, LEGENDS, INDEX, AND DETAILS - SHELL



**SHEET GENERAL NOTES**  
 A. SEE SHEET P0.0 FOR GENERAL NOTES, LEGENDS AND INDEX.  
 B. SEE ARCHITECTURAL FOR EXACT LIMIT OF ALTERNATE 1.



4\"/>

PROVIDE 6\"/>

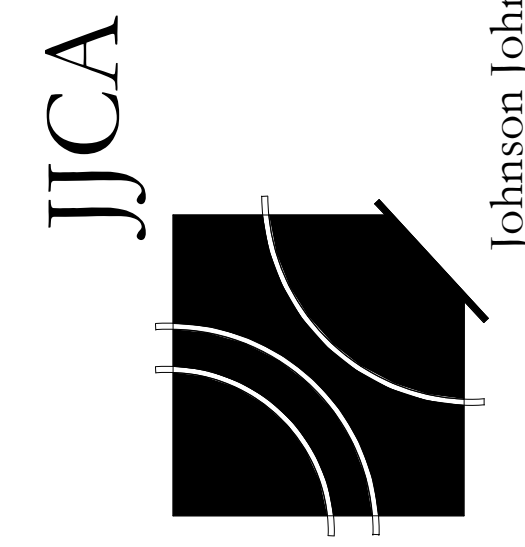
- PROVIDE INSIDE MANHOLE THE FOLLOWING:
1. 120V DUPLEX GFCI OUTLET AT I.E. 528.50.
  2. PROVIDE HIGH WATER ALARM SET AT 527.50 THAT WILL BE TIED INTO ALARM SYSTEM AND EXISTING BAS SYSTEM AT MAIN HOSPITAL. COORDINATE WITH OWNER AS REQUIRED FOR JOHNSON CONTROL CONTACT.
  3. PROVIDE TO THE OWNER A 3/4 HP 120V/1/80 SIMPLEX SUBMERSIBLE DE-WATERING PUMP FOR THE OWNER TO USE IF A BLOCKAGE SHOULD OCCUR.

SEE CIVIL DRAWINGS FOR CONTINUATION OF 8\"/>

NOTE:  
 THIS DESIGN IS ONLY FOR ESTABLISHING A BASE LINE BUDGET. ONCE THE ACTUAL UNDERGROUND WATER FLOW INFORMATION IS OBTAINED, IT WILL BE MODIFIED AS NEEDED TO MEET THE DESIGN CRITERIA PROVIDED TO SSR BY OTHERS.

4\"/>

**1 PLUMBING PLAN - SUB SURFACE DRAINAGE SYSTEM - SHELL**  
 1/8\"/>



Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
 Sullivan, Indiana

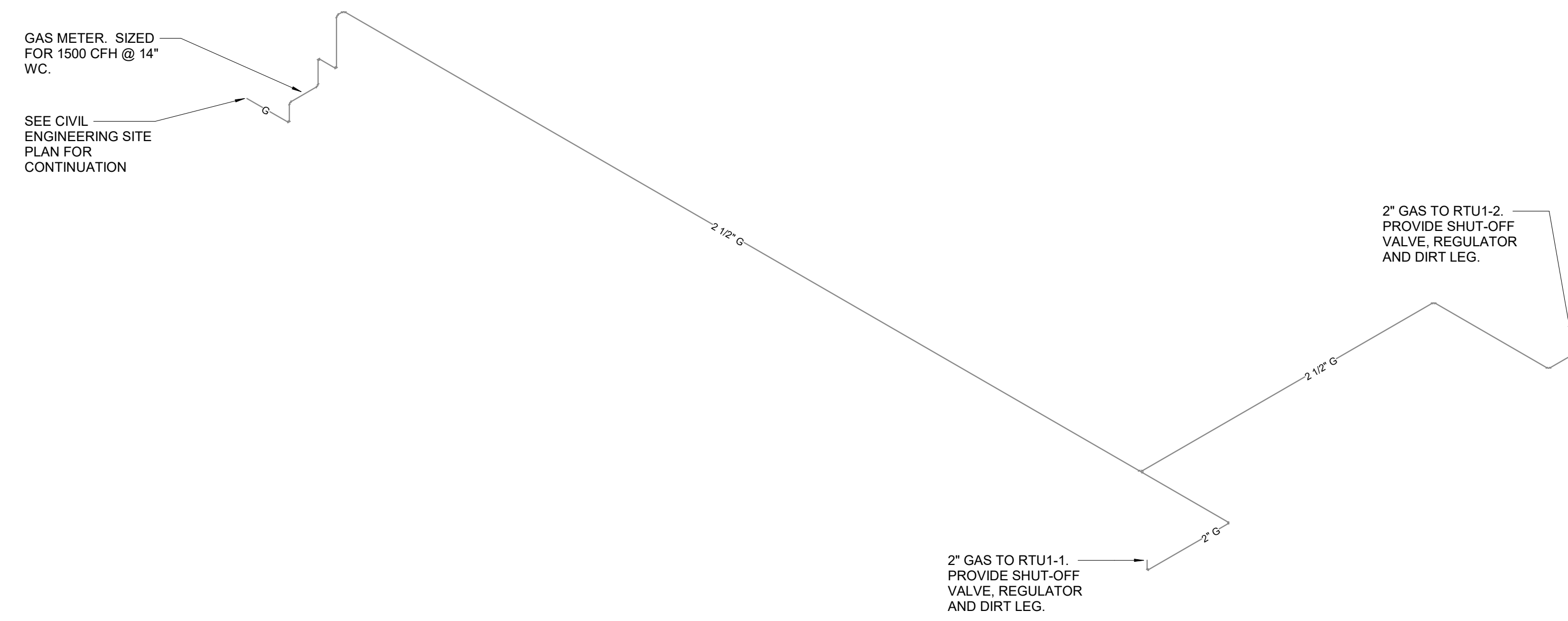


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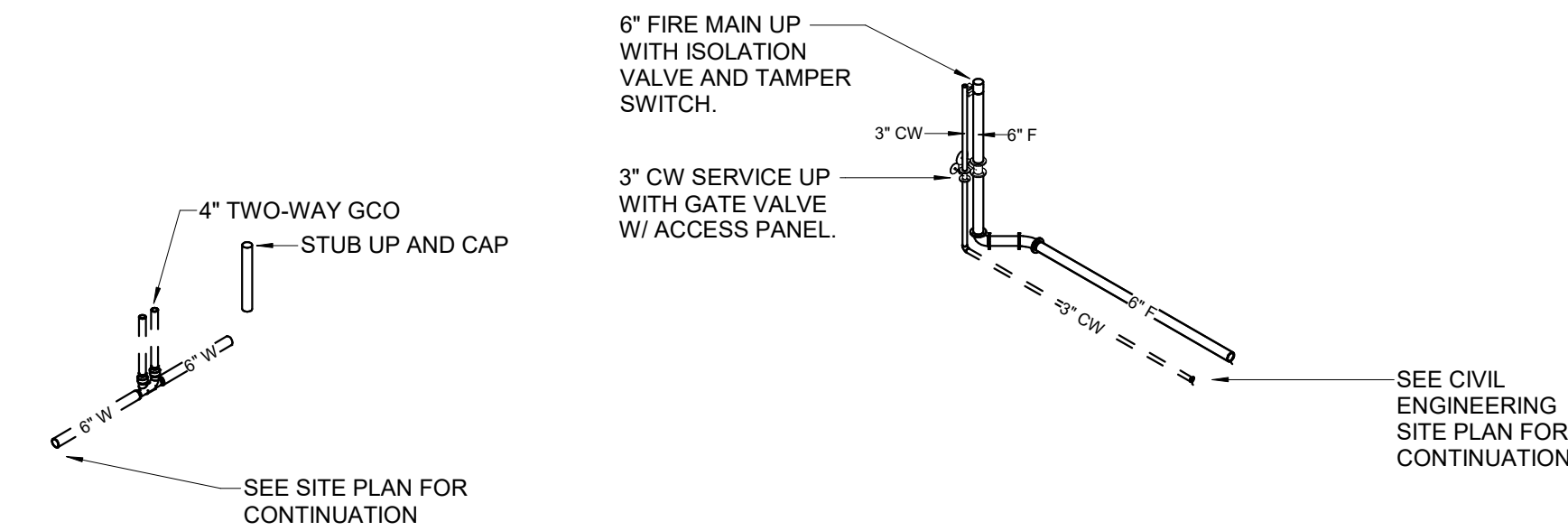
Project Number  
**23987.02**  
 DATE  
**February 28, 2024**

**P1.0**  
 PLUMBING PLAN -  
 SUB SURFACE  
 DRAINAGE SYSTEM -  
 SHELL





**3 NAT. GAS PIPING DIAGRAM - SHELL**  
NOT TO SCALE



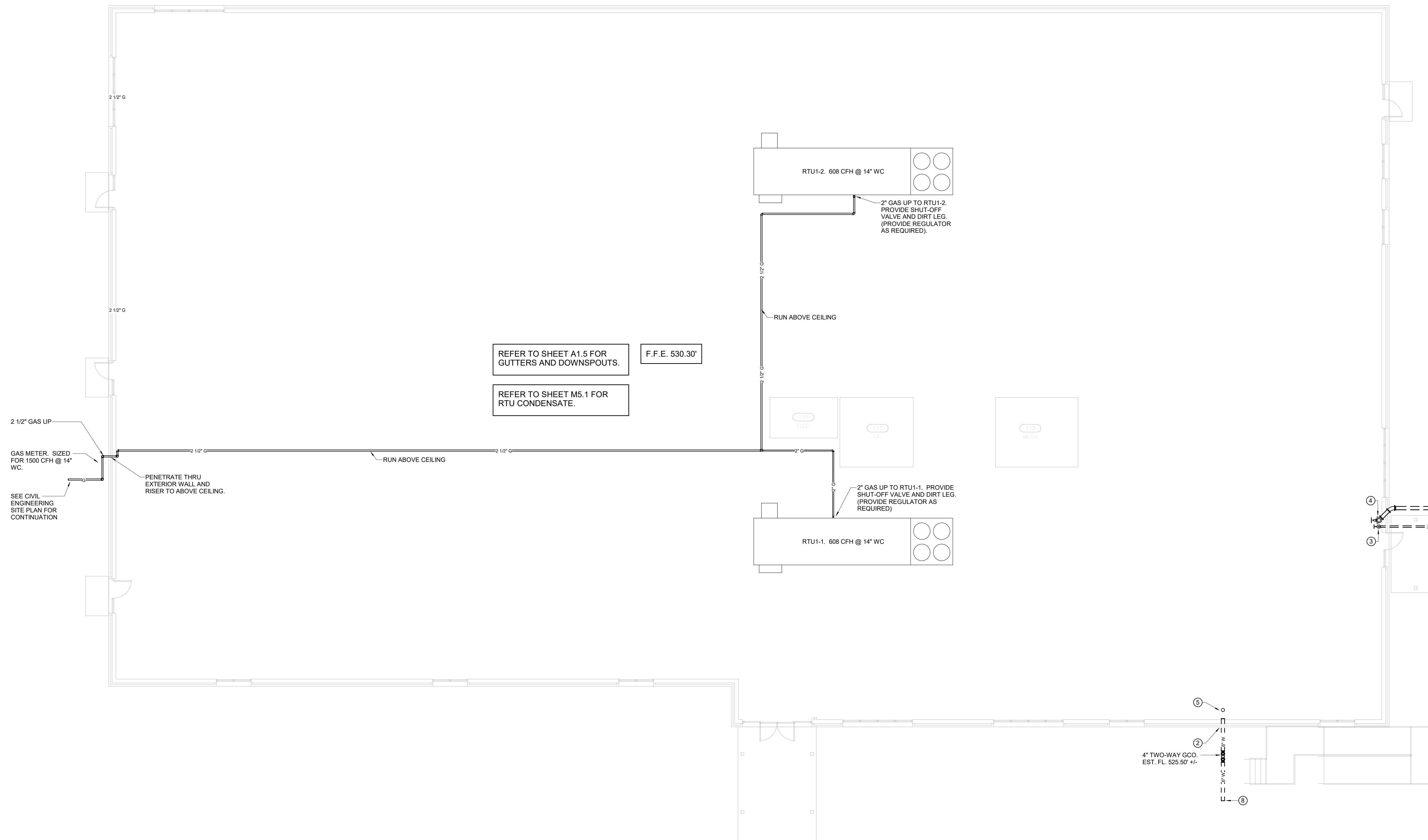
**2 PLUMBING DIAGRAM - SHELL**  
NOT TO SCALE

**SHEET GENERAL NOTES**

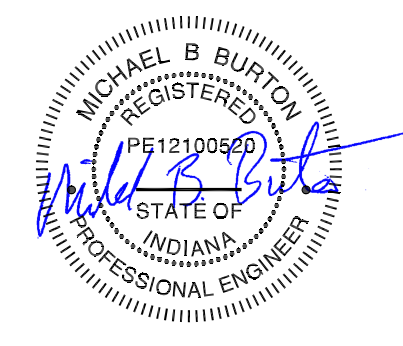
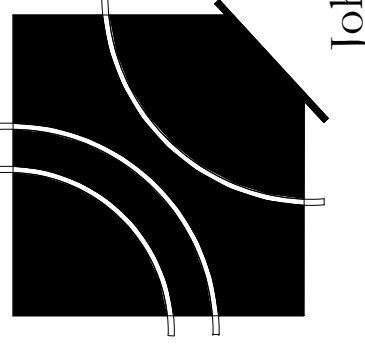
- A. SEE SHEET P0.0 FOR GENERAL NOTES, LEGENDS AND INDEX.
- B. SEE ARCHITECTURAL FOR EXACT LIMIT OF ALTERNATE 1.

**SHEET KEYED NOTES**

1. SEE CIVIL ENGINEERING SITE PLAN FOR CONTINUATION AND LOCATION OF DOMESTIC BACKFLOW PREVENTER, DOUBLE CHECK ASSEMBLY, PIV AND FDC.
2. COORDINATE EXACT LOCATION OF WASTE PIPE WITH STRUCTURAL FOOTING AS REQUIRED PRIOR TO CONSTRUCTION.
3. 3" CW SERVICE UP WITH GATE VALVE IN ACCESS PANEL. ACCESS PANEL TO BE INSTALLED IN BUILDOUT. SEE ARCHITECTURAL FOR ACCESS PANEL SPECIFICATION AND REQUIREMENT.
4. 6" FIRE MAIN UP WITH ISOLATION VALVE AND TAMPER SWITCH IN ACCESS PANEL. ACCESS PANEL TO BE INSTALLED IN BUILDOUT. SEE ARCHITECTURAL FOR ACCESS PANEL SPECIFICATION AND REQUIREMENT.
5. 6" WASTE STUB UP 12" AFF. AND CAP.
6. 3" DOMESTIC WATER SERVICE. MAX. DEMAND 150 GPM, 66 PSI REQUIRED.
7. 6" FIRE MAIN. PRELIMINARY HYDRAULIC CALCULATIONS FOR BUILDING SPRINKLER PROTECTION REQUIREMENT MIN. OF 310 GPM, 36 PSI. IT IS THE CONTRACTOR RESPONSIBILITY TO OBTAIN CURRENT (6-MONTH OLD) FLOW TEST AND PERFORM HIS FINAL HYDRAULIC CALCULATIONS TO PROVIDE A COMPLETE AND FUNCTIONAL SPRINKLER PROTECTION.
8. SEE CIVIL ENGINEERING SITE PLAN FOR CONTINUATION.



**1 PLUMBING AND FIRE PROTECTION PLAN - SHELL**  
1/8" = 1'-0"



02.26.24

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Project Number  
**23987.02**

DATE  
**February 28, 2024**

**P1.1**  
PLUMBING AND FIRE PROTECTION PLAN - SHELL



RECEPTACLES	
	DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT 11 = CIRCUIT NUMBER (TYPICAL) XX= RECEPTACLE DESIGNATOR (TYPICAL)
	DUPLEX RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	DOUBLE-DUPLEX RECEPTACLE
	DOUBLE-DUPLEX RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	DUPLEX GFCI RECEPTACLE
	DUPLEX GFCI RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	SWITCHED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT
	DUPLEX RECEPTACLE, BACKUP POWER - STANDARD MOUNTING HEIGHT
	DUPLEX RECEPTACLE, BACKUP POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	DOUBLE-DUPLEX RECEPTACLE, BACKUP POWER - STANDARD MOUNTING HEIGHT
	DOUBLE-DUPLEX RECEPTACLE, BACKUP POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	DUPLEX GFCI RECEPTACLE, BACKUP POWER - STANDARD MOUNTING HEIGHT
	DUPLEX GFCI RECEPTACLE, BACKUP POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	SPECIAL CONFIGURATION RECEPTACLE (TYPE AS NOTED)
	SPECIAL CONFIGURATION RECEPTACLE, BACKUP POWER (TYPE AS NOTED)
	FLOOR BOX / POKE-THRU XX - DEVICE TYPE
	FLOOR BOX / POKE-THRU, BACKUP POWER XX - DEVICE TYPE
	SURFACE WIREWAY OR RACEWAY WITH RECEPTACLES AS NOTED

LIGHTING	
	LIGHTING FIXTURE ANNOTATIONS (LOCATION OF DESIGNATORS MAY VARY) FIXTURE TYPE: XX CIRCUIT NUMBER: T CONTROL DESIGNATION: X
	SURFACE, SUSPENDED, OR RECESSED LUMINAIRES (TYPE DETERMINES MOUNTING)
	RECESSED OR SURFACE DOWNLIGHT LUMINAIRE
	PENDANT MOUNTED LUMINAIRE
	WALLWASH LUMINAIRE
	WALL MOUNTED LUMINAIRES
	NO SHADING INDICATES CONNECTION TO NORMAL BRANCH CIRCUIT
	HALF SHADING INDICATES CONNECTION TO OPTIONAL STANDBY BRANCH CIRCUIT
	SHADING INDICATES CONNECTION TO LIFE SAFETY OR EMERGENCY BRANCH CIRCUIT
	ILLUMINATED EXIT SIGNS, PROVIDE DIRECTIONAL ARROWS AND MOUNTING AS INDICATED ON PLANS
	BATTERY POWERED EMERGENCY LIGHT
	TRACK LIGHTING
	POLE MOUNTED SITE LIGHTING LUMINAIRES
	GROUND OR POLE MOUNTED FLOODLIGHT
	FAA SPECIALTY LIGHTING (TYPE DETERMINES MOUNTING)

SWITCHES AND LIGHTING CONTROLS		
NORMAL	RED	
S	\$	SINGLE POLE SWITCH
S <sub>2</sub>	\$ <sub>2</sub>	DOUBLE POLE, SINGLE THROW SWITCH
S <sub>3</sub>	\$ <sub>3</sub>	THREE-WAY SWITCH
S <sub>4</sub>	\$ <sub>4</sub>	FOUR-WAY SWITCH
S <sub>K</sub>	\$ <sub>K</sub>	SINGLE POLE SWITCH - KEY OPERATED
S <sub>D</sub>	\$ <sub>D</sub>	DIMMER SWITCH
S <sub>LV</sub>	\$ <sub>LV</sub>	LOW VOLTAGE SWITCH
S <sub>P</sub>	\$ <sub>P</sub>	SINGLE POLE SWITCH WITH PILOT LIGHT
S <sub>OC</sub>	\$ <sub>OC</sub>	OCCUPANCY SENSOR SWITCH, WALL MOUNT
S <sub>VD</sub>	\$ <sub>VD</sub>	VACANCY DIMMER
S <sub>VC</sub>	\$ <sub>VC</sub>	VACANCY SENSOR SWITCH
S <sub>M</sub>	\$ <sub>M</sub>	MOTOR RATED SWITCH WITH THERMAL OVERLOAD
S <sub>T</sub>	\$ <sub>T</sub>	TIMER SWITCH
S <sub>V</sub>	\$ <sub>V</sub>	VARIABLE INTENSITY SWITCH
S <sub>J</sub>	\$ <sub>J</sub>	JOG SWITCH
	H <sub>CE</sub>	PHOTOCELL - CEILING / WALL MOUNT
	H <sub>OC</sub>	OCCUPANCY SENSOR - CEILING / WALL MOUNT
	H <sub>DS</sub>	DAYLIGHT SENSOR - CEILING / WALL MOUNT
	H <sub>VC</sub>	VACANCY SENSOR - CEILING / WALL MOUNT
	X	LIGHTING CONTROL DESIGNATION - REFER TO LIGHTING CONTROL SCHEDULE

CIRCUITS AND RACEWAYS	
	CIRCUIT OR RACEWAY CONCEALED OR EXPOSED
	CIRCUIT OR RACEWAY BELOW OR IN FLOOR SLAB OR BELOW GRADE
	CONDUIT OR RACEWAY TURNING UP
	CONDUIT OR RACEWAY TURNING DOWN
	CAPPED CONDUIT OR RACEWAY
	CIRCUIT OR CONDUIT CONTINUATION
	HOMERUN TO PANELBOARD - REFER TO SPECIFICATIONS FOR MINIMUM CONDUIT SIZES

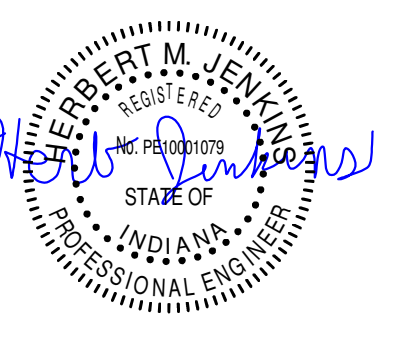
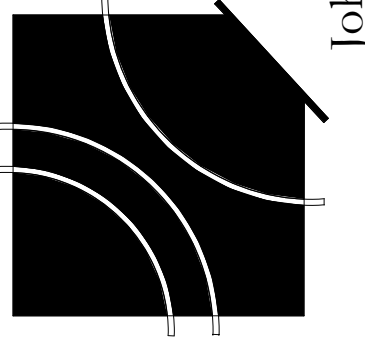
FIRE ALARM	
	FIRE ALARM VISUAL DEVICE - STROBE ONLY
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
	FIRE ALARM CEILING MOUNT HORN WITH STROBE
	FIRE ALARM CEILING MOUNT AUDIO DEVICE WITH STROBE
	FIRE ALARM CEILING MOUNT SPEAKER
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM SMOKE DETECTOR NO SUBSCRIPT = IONIZATION TYPE, P= PHOTOELECTRIC, SS= SINGLE STATION SMOKE ALARM
	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
	FIRE ALARM DUCT SMOKE DETECTOR
	GAS DETECTOR
	FLAME DETECTOR
	BEAM DETECTOR SUBSCRIPT AS FOLLOWS: T=TRANSMITTER; R=RECEIVER
	FIRE ALARM CONTROL MODULE
	FIRE ALARM MONITOR MODULE
	FIRE ALARM RELAY MODULE
	FLOW SWITCH
	TAMPER SWITCH
	FIREFIGHTER'S TELEPHONE JACK
	MAGNETIC DOOR HOLDER
	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
	FIRE ALARM CONTROL UNIT
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM EXTENDER PANEL
	SMOKE CONTROL AND PRESSURE PANEL

MISCELLANEOUS	
	NON-FUSED SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES)
	FUSED/CIRCUIT BREAKER SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES/FUSE SIZE)
	COMBINATION MOTOR STARTER
	FACTORY WIRED CONTROLLER OR EQUIPMENT
	MOTOR CONNECTION
	DUCT HEATER CONNECTION
	JUNCTION BOX - WALL MOUNTED UNLESS OTHERWISE NOTED
	PANELBOARD
	X-RAY ISOLATION PANEL LINE ISOLATION MONITOR
	ISOLATION PANEL LINE ISOLATION MONITOR
	CLOCK, SINGLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED
	CLOCK, DOUBLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED
	ELAPSED TIMER - DIGITAL TYPE
	ELAPSED TIMER CONTROL - DIGITAL TYPE
	MEDICAL GAS AREA ALARM PANEL
	BUILDING AUTOMATION SYSTEM CONTROL PANEL
	MEDICAL GAS COMPRESSED AIR CONTROL PANEL
	GENERATOR REMOTE ANNUNCIATOR PANEL
	MEDICAL GAS MASTER ALARM PANEL
	MEDICAL GAS NITROGEN CONTROL PANEL
	SECURITY SYSTEM CONTROL PANEL
	DOOR SWITCH MOUNTED IN DOOR JAMB
	DOOR RELEASE PUSH BUTTON
	CARD READER
	ELECTRONIC KEY PAD
	PUSH BUTTON STATION
	VARIABLE FREQUENCY DRIVE
	PUSH PLATE (DOOR OPERATOR)
	SPECIALTY/MECHANICAL EQUIPMENT TAG
	COMMUNICATIONS OUTLET - STANDARD MOUNTING HEIGHT, SPECIAL MOUNTING HEIGHT, CEILING
	WALL PHONE
	CATV OUTLET

ABBREVIATIONS	
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CLG	CEILING
CR	CONTROLLED RECEPTACLE
CS	CONTROLLED RECEPTACLE - SPLIT WIRED
DC	DIGITAL CLOCK
E	EMERGENCY POWER
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
FBO	FURNISHED BY OTHERS
FLR	FLOOR MOUNTED
FSD	FIRE/SMOKE DAMPER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
NEX	REMOVE EXISTING ELECTRICAL DEVICE AND INSTALL NEW ELECTRICAL DEVICE IN EXISTING OUTLET BOX. REFER TO NEW FLOOR PLANS FOR NEW DEVICE TYPE AND WIRING REQUIREMENTS. PROVIDE NEW COVERPLATE
RD	NEW LOCATION OF RELOCATED DEVICE
REX	REMOVE EXISTING ELECTRICAL DEVICE ALONG WITH RELATED CONDUIT AND WIRING, UON
RR	REMOVE AND RELOCATE EXISTING ELECTRICAL DEVICE AS INDICATED OR AS NOTED ON DRAWINGS
TR	TAMPER RESISTANT
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF

SHEET INDEX - SHELL	
NUMBER	SHEET NAME
E0.1	ELECTRICAL LEGENDS, INDEX AND NOTES - SHELL
E0.2	ELECTRICAL SCHEDULES - SHELL
ES.1	SITE PLAN - SHELL
E1.1	ELECTRICAL PLAN - SHELL
E5.1	ELECTRICAL DETAILS - SHELL
E6.1	ONE LINE DIAGRAM - SHELL

GENERAL NOTES	
<b>ELECTRICAL GENERAL NOTES:</b>	
A. WORK SHALL CONFORM TO LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS. EQUIPMENT SHALL BE LISTED/LABELED BY NATIONALLY RECOGNIZED TESTING AGENCY FOR THE INTENDED USE.	
B. COORDINATE FINAL LOCATIONS AND INSTALLATION REQUIREMENTS OF LIGHT FIXTURES, EQUIPMENT AND DEVICES WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE NECESSARY ACCESSORIES FOR COMPLETE AND PROPER OPERATION IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.	
C. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND REPRESENT GENERAL SCOPE OF WORK. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY ITEM/DETAIL REQUIRED FOR COMPLETED INSTALLATION.	
D. NOTES ON FLOOR PLANS AND SITE PLAN APPLY ONLY TO THE WORK SCOPE WITHIN THE BOUNDARY OF THE SHEET ON WHICH THEY APPEAR, UNLESS INDICATED OTHERWISE.	
E. WHERE EQUIPMENT GROUND BUS BARS ARE SPECIFIED OR INDICATED ON DRAWINGS, INSTALL IN LOCATION WHICH WILL ALLOW ADEQUATE ACCESS FOR FUTURE CONNECTIONS.	
F. PROVIDE FIRE PROOFING AT PENETRATIONS THROUGH RATED WALLS TO MEET OR EXCEED WALL RATING USING UL LISTED PRODUCTS IN ACCORDANCE WITH MANUFACTURE INSTRUCTIONAL PENETRATION DETAILS.	
G. RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER POSSIBLE. WHERE EXPOSED, RACEWAYS MUST BE INSTALLED IN NEAT AND WORKMANLIKE MANNER AND PARALLEL/PERPENDICULAR TO WALLS IN ASSOCIATED SPACE.	
H. NUMBER OF BENDS SHALL NOT EXCEED THE EQUIVALENT OF FOUR 90 DEGREE BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS IN ACCORDANCE WITH NEC ARTICLES 342, 344, 358. WHERE REQUIRED, PULL POINTS SHALL BE SIZED IN ACCORDANCE WITH NEC ARTICLE 314.	
I. CONDUIT ROUTING, AND WIRE COUNTS ARE NOT INDICATED ON FLOOR PLANS. CONTRACTOR TO PROVIDE RACEWAYS IN ACCORDANCE WITH SPECIFICATIONS AND WIRE COUNTS AS REQUIRED TO ACHIEVE CIRCUITING AND CONTROL OPERATION AS INDICATED.	
J. INSTALL ELECTRICAL EQUIPMENT SUCH THAT MANUFACTURER'S VENTILATION REQUIREMENTS AND NEC REQUIRED CLEARANCES ARE MAINTAINED.	
K. PROVIDE PULL LINE OR TAPE IN EACH EMPTY CONDUIT LEFT FOR FUTURE USE OR FOR OTHER DISCIPLINE USE.	
L. PROVIDE GFCI PROTECTION FOR OUTLETS WHERE INDICATED AND WHERE REQUIRED BY CODE. WHERE DEVICES ARE MOUNTED BEHIND FIXED EQUIPMENT, GFCI BREAKERS SHALL BE PROVIDED WHERE COMMERCIALLY AVAILABLE. WHERE BOTH GFCI PROTECTION AND SHUNT TRIP FUNCTION ARE REQUIRED, OR, WHERE GFCI BREAKERS ARE NOT AVAILABLE, PROVIDE IN-LINE GFCI MODULE IN FLUSH OUTLET BOX OR FLUSH MOUNTED HINGED ENCLOSURE MOUNTED ADJACENT TO PANEL, CONTAINING SHUNT TRIP BREAKER FOR THE ASSOCIATED CIRCUIT/OUTLET. LABEL ASSOCIATED RECEPTACLES AS 'GROUND FAULT PROTECTED'.	
M. WHERE WIRE AND CONDUITS SIZES ARE SHOWN ON ONE PART OF A FEEDER OR BRANCH CIRCUIT, USE THE SAME WIRE AND RACEWAY FOR THE ENTIRE FEEDER OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.	
<b>SITE GENERAL NOTES:</b>	
A. CAP AND RECORD LOCATIONS OF CONDUITS STUBBED OUT UNDERGROUND AND LEFT FOR FUTURE USE.	
B. MINIMUM CONDUIT SIZE FOR EXTERIOR CIRCUITS SHALL BE 1". MINIMUM CONDUCTOR SIZE FOR EXTERIOR CIRCUITS SHALL BE #10 AWG.	
C. PROVIDE SPLICE/PULL BOXES WHERE REQUIRED TO SERVE SITE LIGHTING FIXTURES. LOCATE IN LANDSCAPE/PLANTER AREAS. BOXES SHALL BE MINIMUM 12"X12"X12" WITH OPEN BOTTOM AND COVER WITH IDENTIFICATION 'ELECTRICAL'. PROVIDE CLOSED BOTTOM WHERE OPEN BOTTOM IS DISALLOWED BY LOCAL AHJ.	
D. COORDINATE ELECTRICAL SERVICE ENTRANCE DUCTBANK WITH OTHER SITE SERVICES AND MAINTAIN SEPARATIONS FROM OTHER SERVICES PER NESC REQUIREMENTS.	
E. COORDINATE SITE POLE LOCATIONS WITH CIVIL DRAWINGS.	



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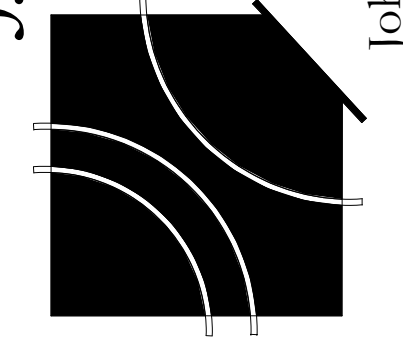
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E0.1

ELECTRICAL LEGENDS, INDEX, AND NOTES - SHELL





## MECHANICAL EQUIPMENT CONNECTION SCHEDULE

**GENERAL NOTES:**  
1. REFER TO MOTOR CONNECTION SCHEDULE IN THIS DRAWING SET WHEN ALPHA CHARACTERS (E.G. "AA") ARE USED IN DISCONNECT, WIRE SIZE, AND CONDUIT SIZE COLUMNS.

**REMARKS:**  
NONE.

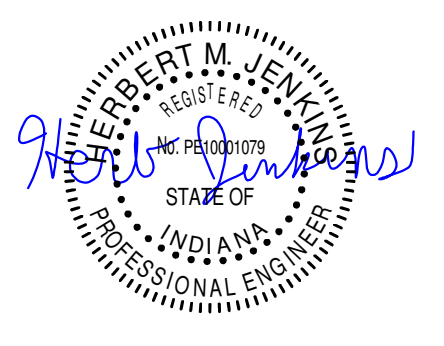
**ABBREVIATIONS:**  
CSD = COMBINATION MOTOR STARTER/DISCONNECT SWITCH  
DC = DIRECT CONNECTION - EQUIPMENT PROVIDED WITH INTEGRAL MEANS OF DISCONNECT  
PROVIDE JUNCTION BOX AND SEALTITE CONNECTION  
DS = NON-FUSED DISCONNECT SWITCH  
ECM = ELECTRONICALLY COMMUTATED MOTOR  
FDS = FUSED DISCONNECT SWITCH  
MMS = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD  
VFD = VARIABLE FREQUENCY DRIVE FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED  
AND WIRED BY ELECTRICAL CONTRACTOR  
TG = MOTOR RATED TOGGLE SWITCH...

TAG	DESCRIPTION	VOLTAGE	PHASE	H.P.	FLA	PANEL	CKT.	DISCONNECT		WIRE SIZE	REMARKS
								DISC. TYPE	AMP RATING / FUSE SIZE		
EF-1-1	EXHAUST FAN	120 V	1	--	9.8 A	MECH-A	1	ECM	--	2#12, 1#12GND, 3/4" C	LOCATED ON ROOF
EF-1-2	EXHAUST FAN	120 V	1	--	5.8 A	MECH-A	3	ECM	--	2#12, 1#12GND, 3/4" C	LOCATED ON ROOF
RTU-L-1	ROOF TOP UNIT	208 V	3	--	256 A	MSB	1	DC	--	3#500, 1#2GND, 4" C	LOCATED ON ROOF
RTU-L-2	ROOF TOP UNIT	208 V	3	--	256 A	MSB	2	DC	--	3#500, 1#2GND, 4" C	LOCATED ON ROOF
EF-2-2	EXHAUST FAN	120 V	1	--	9.8 A	MECH-A	5	ECM	--	2#12, 1#12GND, 3/4" C	LOCATED ON ROOF
EF-2-1	EXHAUST FAN	120 V	1	--	5.8 A	MECH-A	7	ECM	--	2#12, 1#12GND, 3/4" C	LOCATED ON ROOF
SP-FV	SUMP PUMP	120 V	1	--	10 A	MECH-A	62	DS	30AS NEMA 3R	2#10, 1#10GND, 1" C	LOCATED IN FIRE VAULT

## LUMINAIRE SCHEDULE

**GENERAL NOTES:**  
1. REFER TO AND COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR FINAL FIXTURE LOCATIONS, CEILING TYPES, MOUNTING TYPES, ETC. PROVIDE REQUIRED MOUNTING KITS (I.E. FLANGE KITS, FLANGELESS FRAMES, ETC.) AS REQUIRED FOR CEILING COMPATIBILITY. VERIFY AND COORDINATE ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO ORDERING.  
2. WHERE EXIT SIGNS ARE CIRCUITED WITH OTHER FIXTURES, THEY SHALL BE CONNECTED TO THE UNSWITCHED PORTION OF THE CIRCUIT.  
3. WHERE FIXTURES EQUIPPED WITH BATTERY PACKS, OR 'BUG-EYE' UNITS, ARE INDICATED, THE BATTERY UNIT SHALL BE CONNECTED TO THE UNSWITCHED PORTION OF THE CIRCUIT.  
4. CONFIRM LED DRIVER DIMMING COMPATIBILITY (E.G. 0-10V, ELV, ETC.) FOR ALL FIXTURES PRIOR TO ORDERING. REFER TO LIGHTING PLANS, LIGHTING CONTROLS SPECIFICATIONS, AND LIGHTING CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION.  
5. REFER TO ELECTRICAL SITE PLANS FOR QUANTITY AND ORIENTATION OF FIXTURE HEADS FOR EACH POLE LOCATION. PROVIDE CORRESPONDING MOUNTING ARMS AND ADAPTERS AS NEEDED.  
6. WHERE SUSPENDED OR PENDANT MOUNTED FIXTURES ARE SPECIFIED, REFER TO ARCHITECTURAL DRAWINGS FOR OVERALL SUSPENSION LENGTHS AND MOUNTING HEIGHTS. PROVIDE ALL NECESSARY HARDWARE, ADAPTERS, ETC., FOR A COMPLETE INSTALLATION.  
7. CONFIRM LED COLOR TEMPERATURE (WHERE APPLICABLE) FOR ALL LUMINAIRE TYPES WITH ARCHITECT AND OWNER PRIOR TO ORDERING.  
8. COORDINATE DIRECTIONAL ARROWS FOR EXIT SIGNAGE WITH LIFE SAFETY EXITING PLANS.  
9. PROVIDE NEUTRAL CONDUCTOR TO WALL MOUNTED LINE VOLTAGE SWITCHES/DIMMERS AS REQUIRED PER NEC.  
10. WALL MOUNTED EXIT SIGNS SHALL BE MOUNTED WITH BOTTOM OF SIGN 12" ABOVE THE FRAME AND CENTERED ON THE DOOR, UNLESS INDICATED OTHERWISE. WHERE PENDANT MOUNTING IS REQUIRED DUE TO EXPOSED STRUCTURE OR HIGH CEILING, MOUNT FIXTURE SUCH THAT BOTTOM OF FIXTURE IS 12" AFF.

TYPE	DESCRIPTION	MANUFACTURER/SERIES	LAMPS				VOLTAGE	BALLAST/DRIVER	MOUNTING	REMARKS
			LAMPS	MIN. LUMENS	COLOR	INPUT WATTS				
SLP1	21-5/8"x21-3/4"x3-15/16" DEEP LUMINAIRE WITH ALUMINUM HOUSING, 7" ARM, TYPE IV FORWARD THROW DISTRIBUTION, SPILL LIGHT OPTICAL CONTROL, 600mA, INTEGRAL PHOTOCELL, AND BRONZE FINISH. POLE SHALL BE 30" IN HEIGHT, ROUND TAPERED ALUMINUM WITH MATCHING FINISH. LUMINAIRE AVAILABLE WITH INTEGRAL PHOTOCELL, AND INTEGRAL DIMMING FOR ASHRAE COMPLIANCE.	MC-GRAW EDISON GLEON-SA3-A-740-2-TAFT-BZ-AHD245-BPC LITHONIA DS32-LED BEACON VPL	LED	14312	4000K	96	208	0-10V	POLE	--
SLP2	21-5/8"x21-3/4"x3-15/16" DEEP LUMINAIRE WITH ALUMINUM HOUSING, (2) HEADS, 7" ARM, TYPE IV FORWARD THROW DISTRIBUTION, SPILL LIGHT OPTICAL CONTROL, 600mA, INTEGRAL PHOTOCELL, AND BRONZE FINISH. POLE SHALL BE 30" IN HEIGHT, ROUND TAPERED ALUMINUM WITH MATCHING FINISH. LUMINAIRE AVAILABLE WITH INTEGRAL PHOTOCELL, AND INTEGRAL DIMMING FOR ASHRAE COMPLIANCE.	MC-GRAW EDISON GLEON-SA3-A-740-2-TAFT-BZ-AHD245-BPC LITHONIA DS32-LED BEACON VPL	LED	286241	4000K	192	208	0-10V	POLE	--



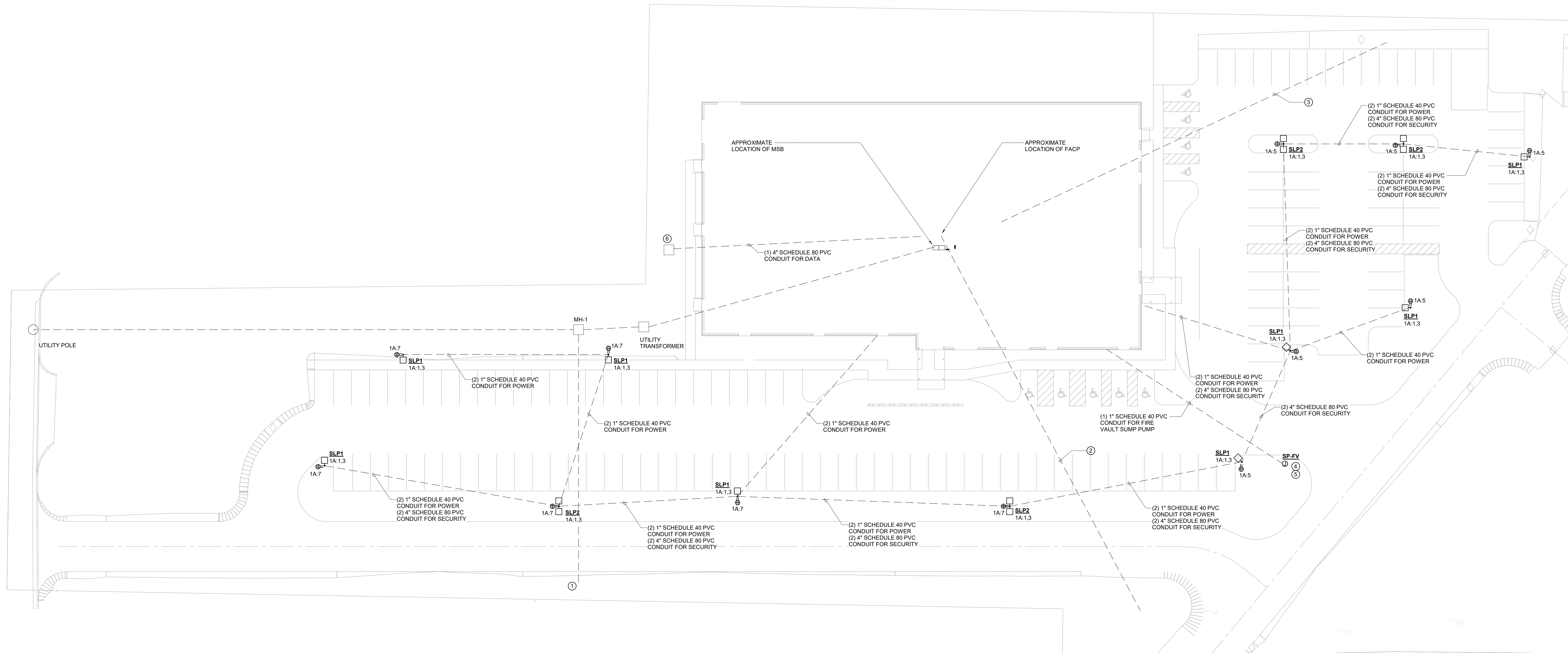
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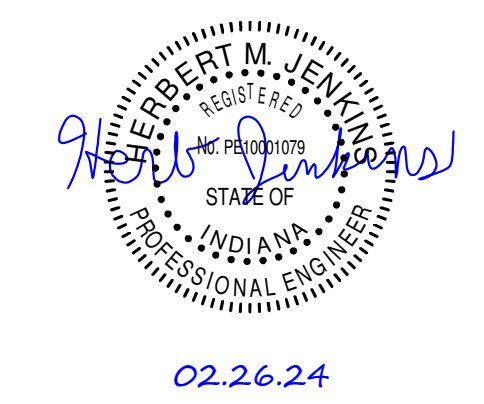
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**E0.2**  
ELECTRICAL  
SCHEDULES - SHELL

- ⊗ SHEET KEYED NOTES**
- CAP AND STAKE CONDUITS. CONDUITS SHALL BE EXTENDED TO NEW UTILITY TRANSFORMER IN SEPARATE PROJECT.
  - PROVIDE 2" SCHEDULE 40 PVC CONDUIT FROM NEW FACP LOCATED IN ELEC ROOM 120 TO LOCATION INDICATED ON PLAN FOR FUTURE CONNECTION TO FACP IN HOSPITAL. CONDUIT SHALL BE CAPPED, STAKED, AND LABELED.
  - PROVIDE (2) 2" SCHEDULE 40 PVC CONDUITS WITH PULLSTRING FOR FUTURE EV CHARGING STATION POWER AND (2) 2" PVC SCHEDULE 40 CONDUITS WITH PULLSTRING FOR TELE/DATA. CONDUITS FOR POWER SHALL BE ROUTED TO PANELBOARD 1A IN ELEC ROOM 120 AND CONDUITS FOR TELE/DATA SHALL BE ROUTED TO I.T. 121. CONDUITS SHALL BE CAPPED, STAKED, AND LABELED.
  - NON-FUSED DISCONNECT SWITCH SHALL BE MOUNTED ADJACENT TO FIRE VAULT. REFER TO EXTERIOR DISCONNECT MOUNTING DETAIL ON SHEET ES-1 FOR ADDITIONAL INFORMATION.
  - TEMPORARY POWER SHALL BE PROVIDED AS PART OF A SEPARATE PROJECT. MAINTAIN TEMPORARY POWER UNTIL FINAL CONNECTION TO PERMANENT POWER IS COMPLETED.
  - PROVIDE 11"x18"x12" DEEP, UL LISTED, OPEN BOTTOM, PRE-CAST HANDHOLE WITH 4-BOLT GASKETED COVER WITH 'COMMUNICATIONS' LOGO FOR FUTURE USE. QUANTITY PART # BOX - PC1118B412, COVER - PC1118CG12 OR APPROVED EQUALS.



**1 SITE PLAN**  
 3/64" = 1'-0"



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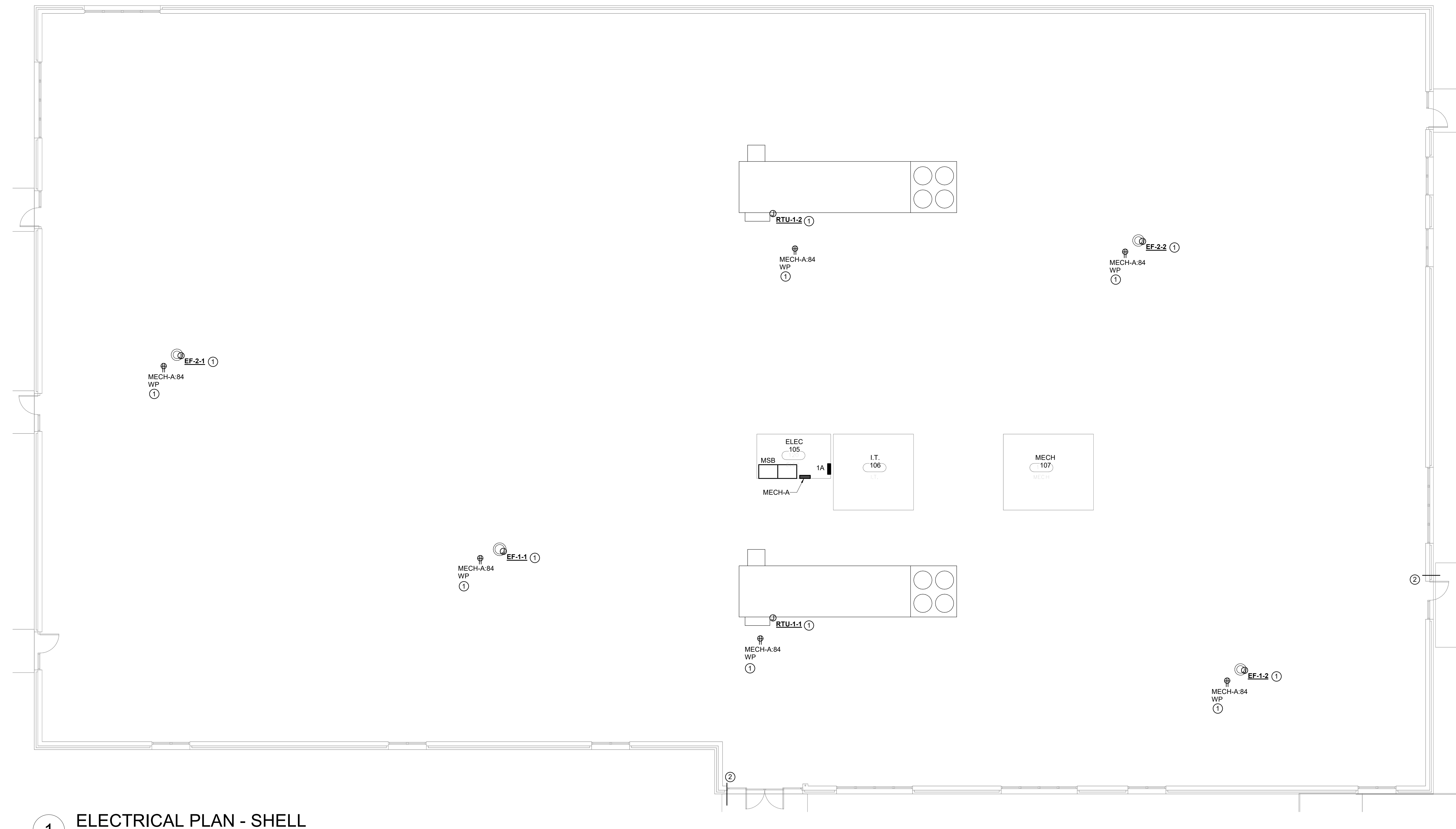
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**ES1.1**  
 SITE PLAN - SHELL



⊗ SHEET KEYED NOTES

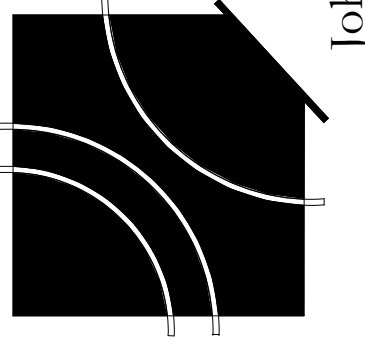
- EQUIPMENT/DEVICE LOCATED ON ROOF.
- PROVIDE 3/4" SLEEVE FOR EXTERIOR WALL MOUNTED FIXTURES AND CANOPY LIGHTS. LIGHTS SHALL BE INSTALLED IN BUILDOUT PACKAGE.



1 ELECTRICAL PLAN - SHELL  
1/8" = 1'-0"

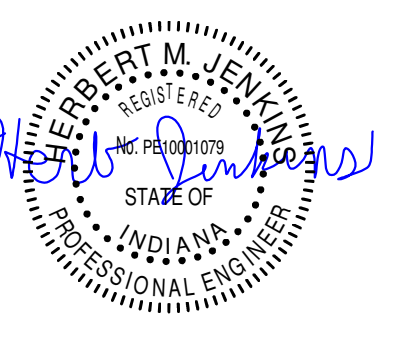


JJCA



Johnson Johnson Crabtree Architects P.C.  
4551 Transcendia Drive  
Nashville, TN 37204  
Tel: 615.837.0666  
Fax: 615.837.0657

Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
Sullivan, Indiana



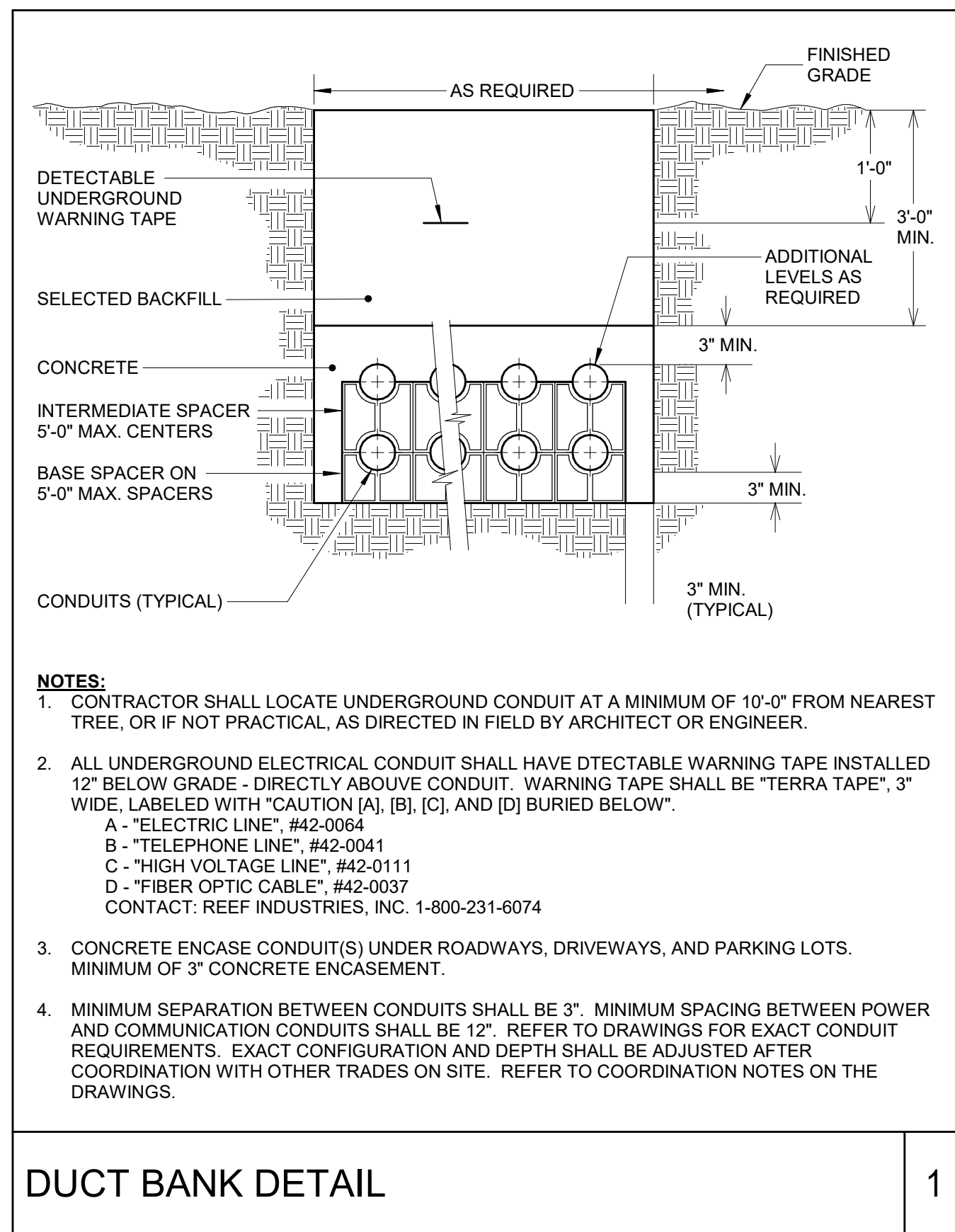
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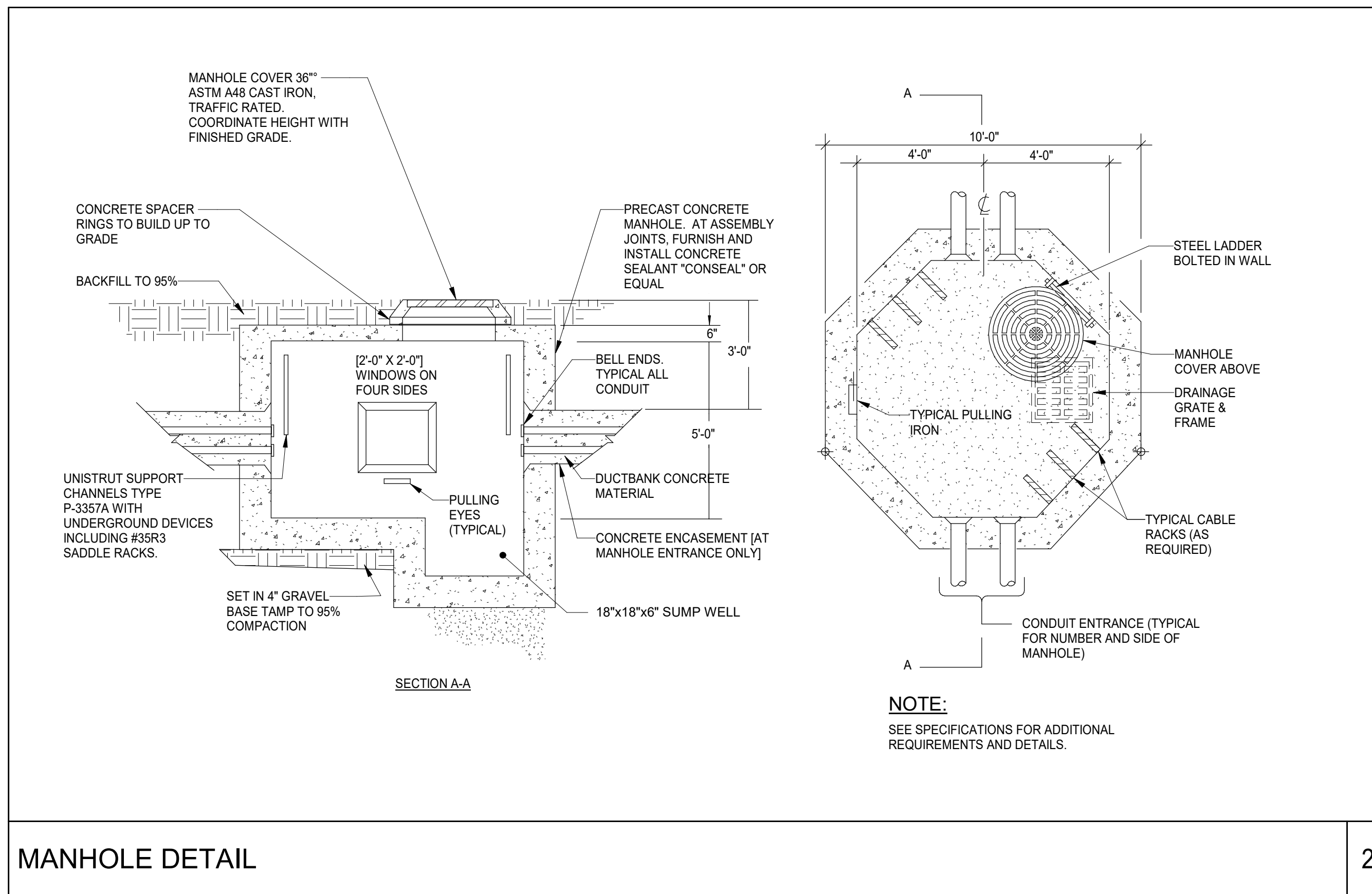
**E1.1**  
ELECTRICAL PLAN - SHELL





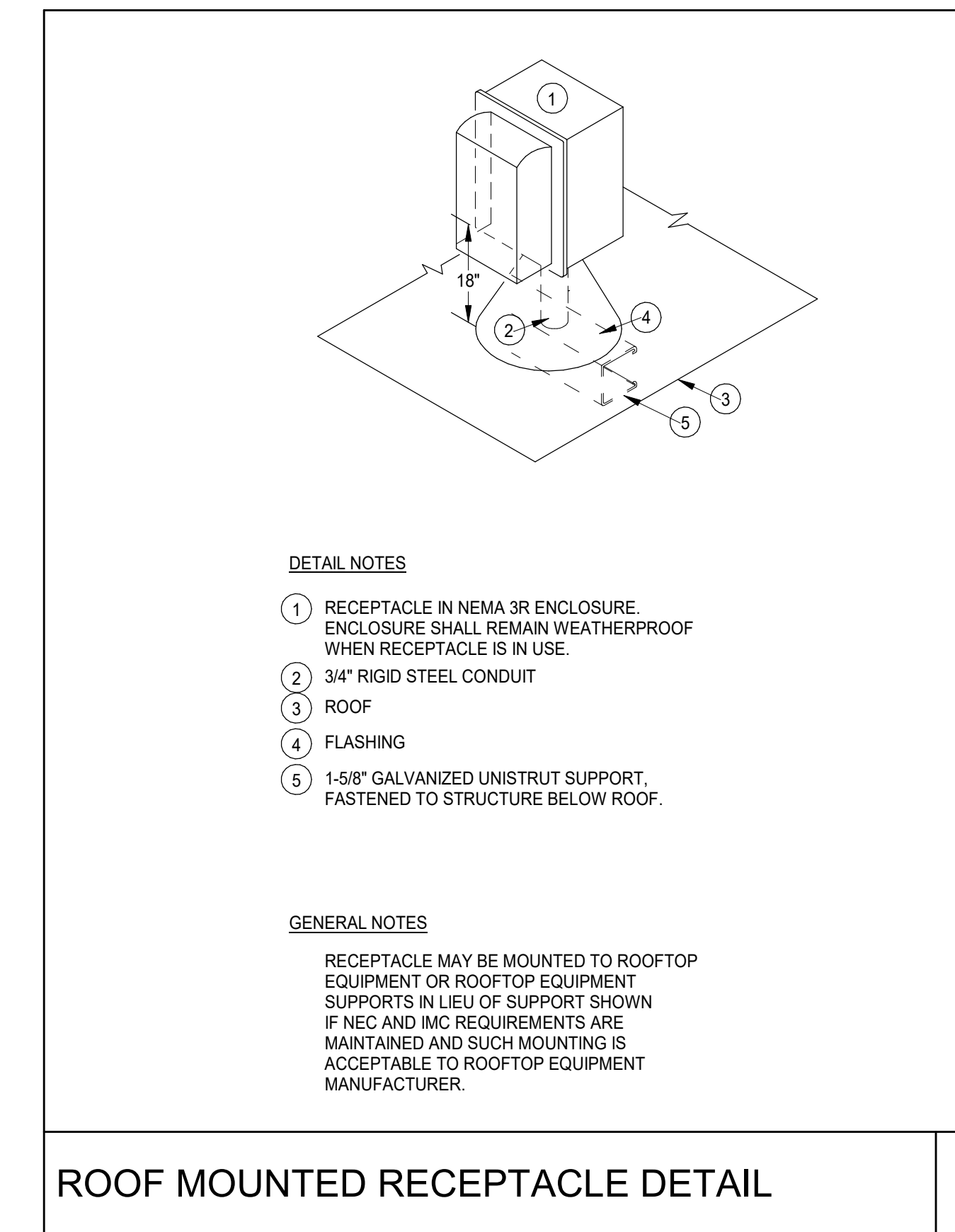
DUCT BANK DETAIL

1



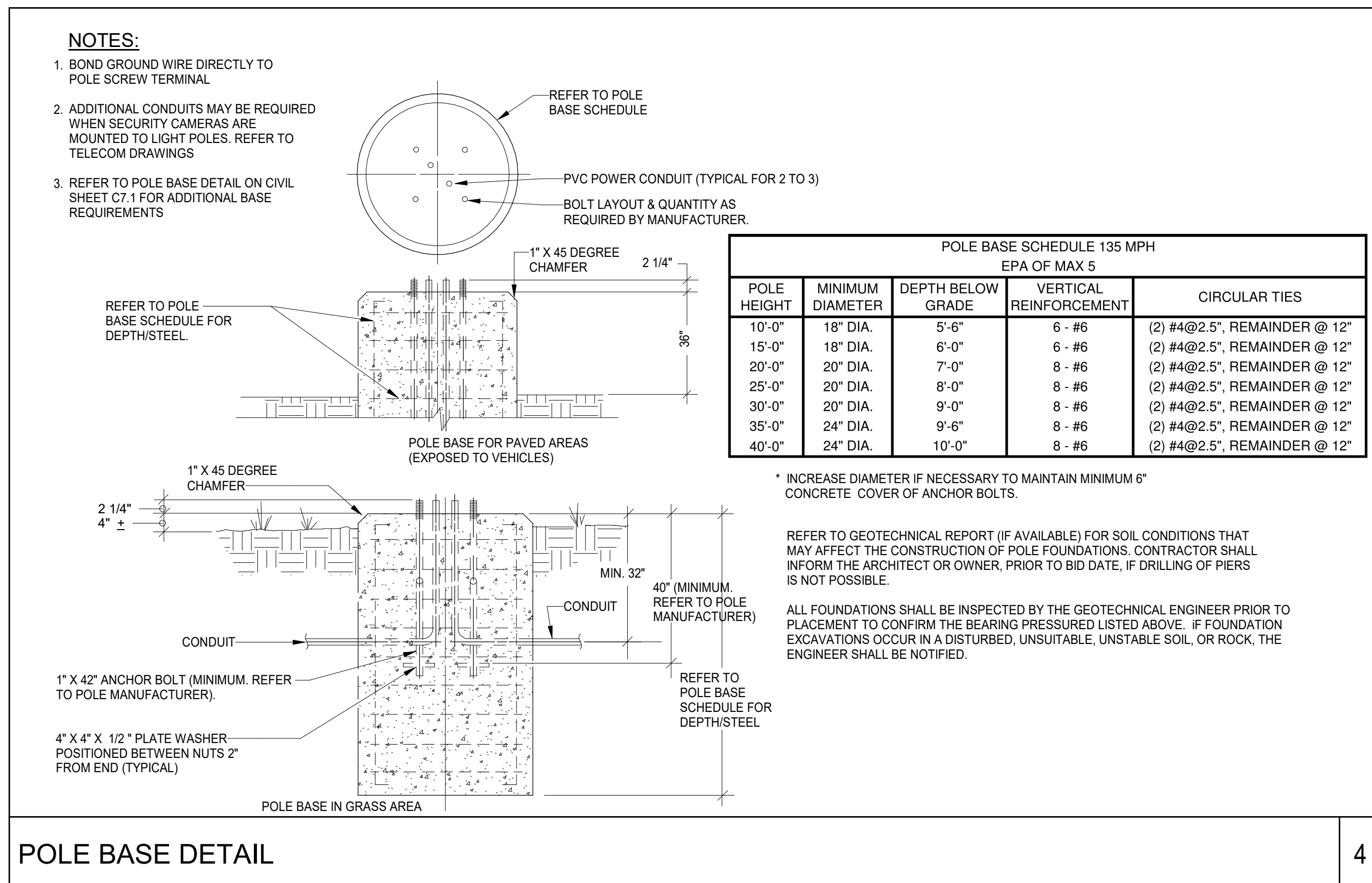
MANHOLE DETAIL

2



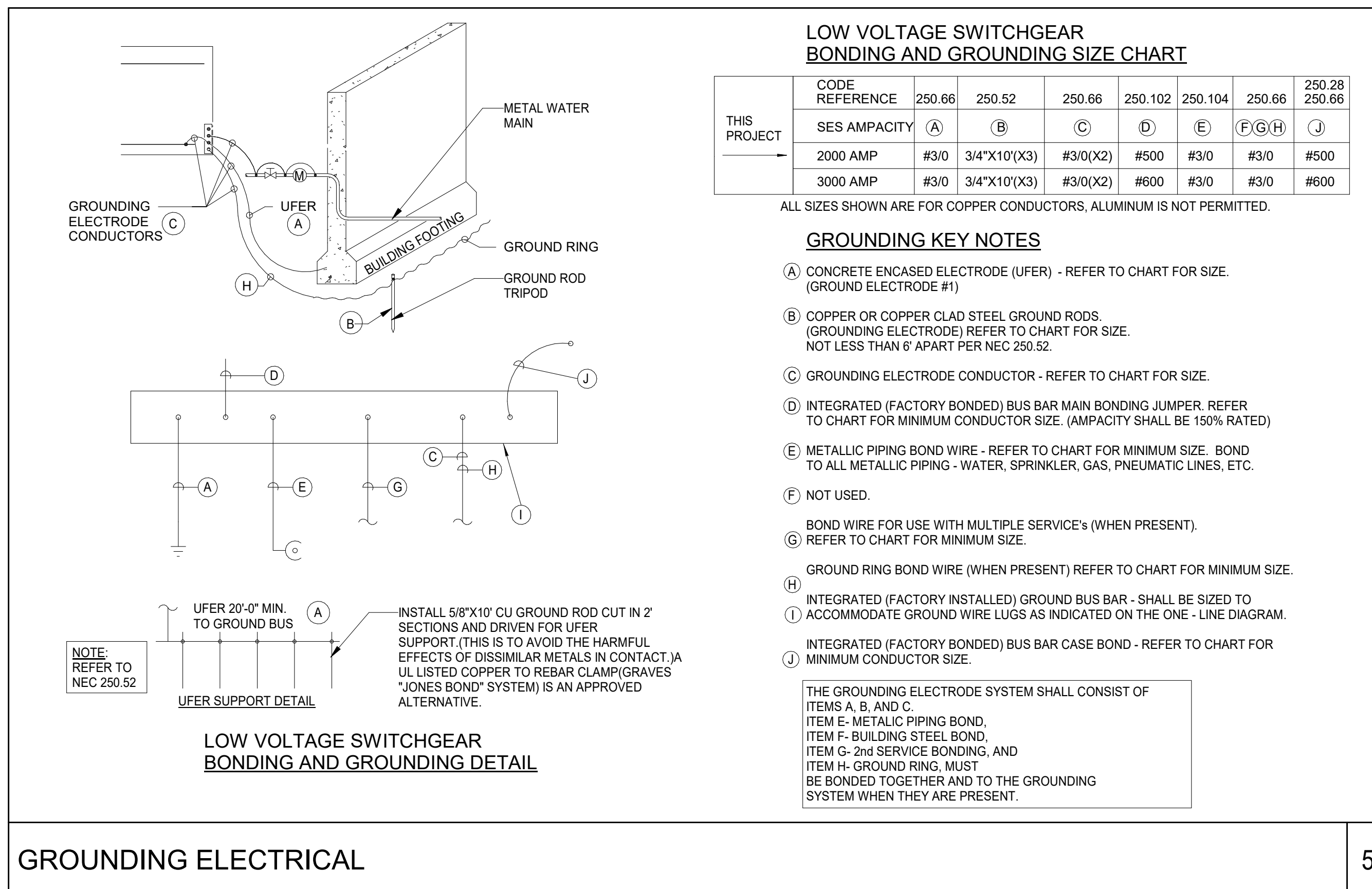
ROOF MOUNTED RECEPTACLE DETAIL

3



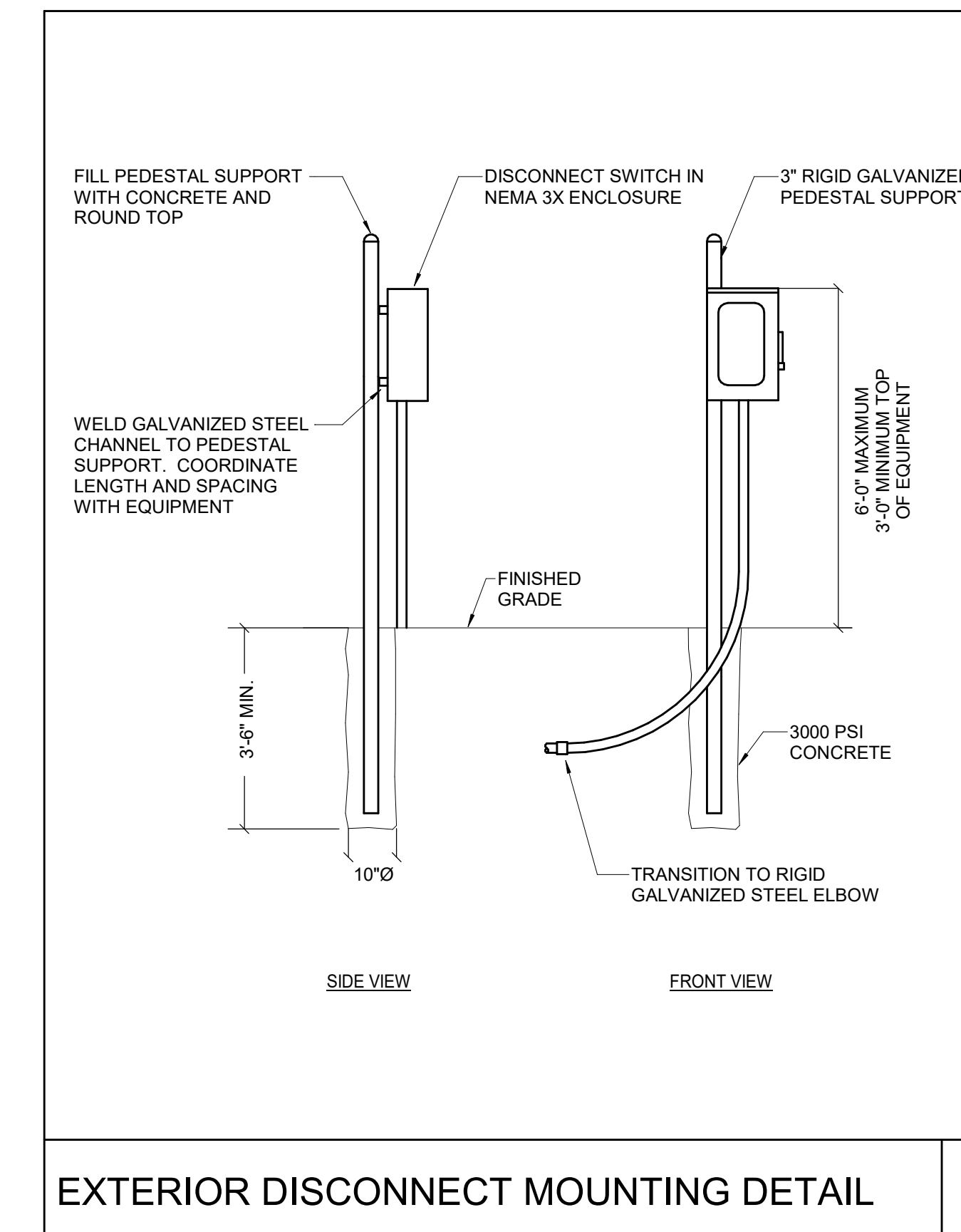
POLE BASE DETAIL

4



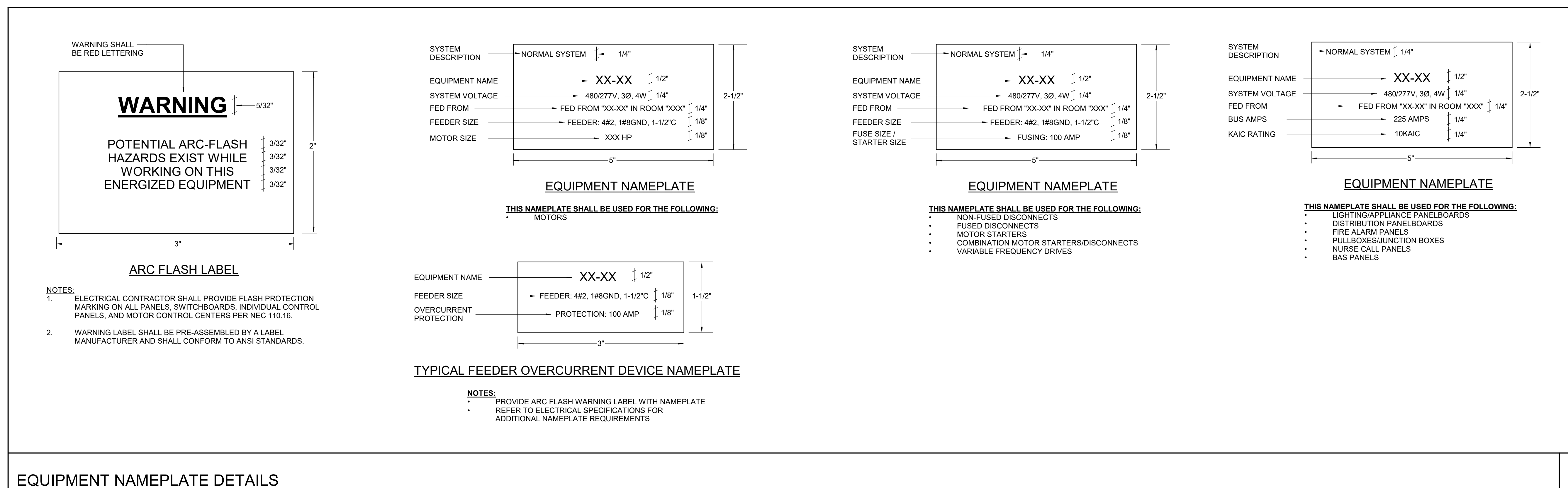
GROUNDING ELECTRICAL

5



EXTERIOR DISCONNECT MOUNTING DETAIL

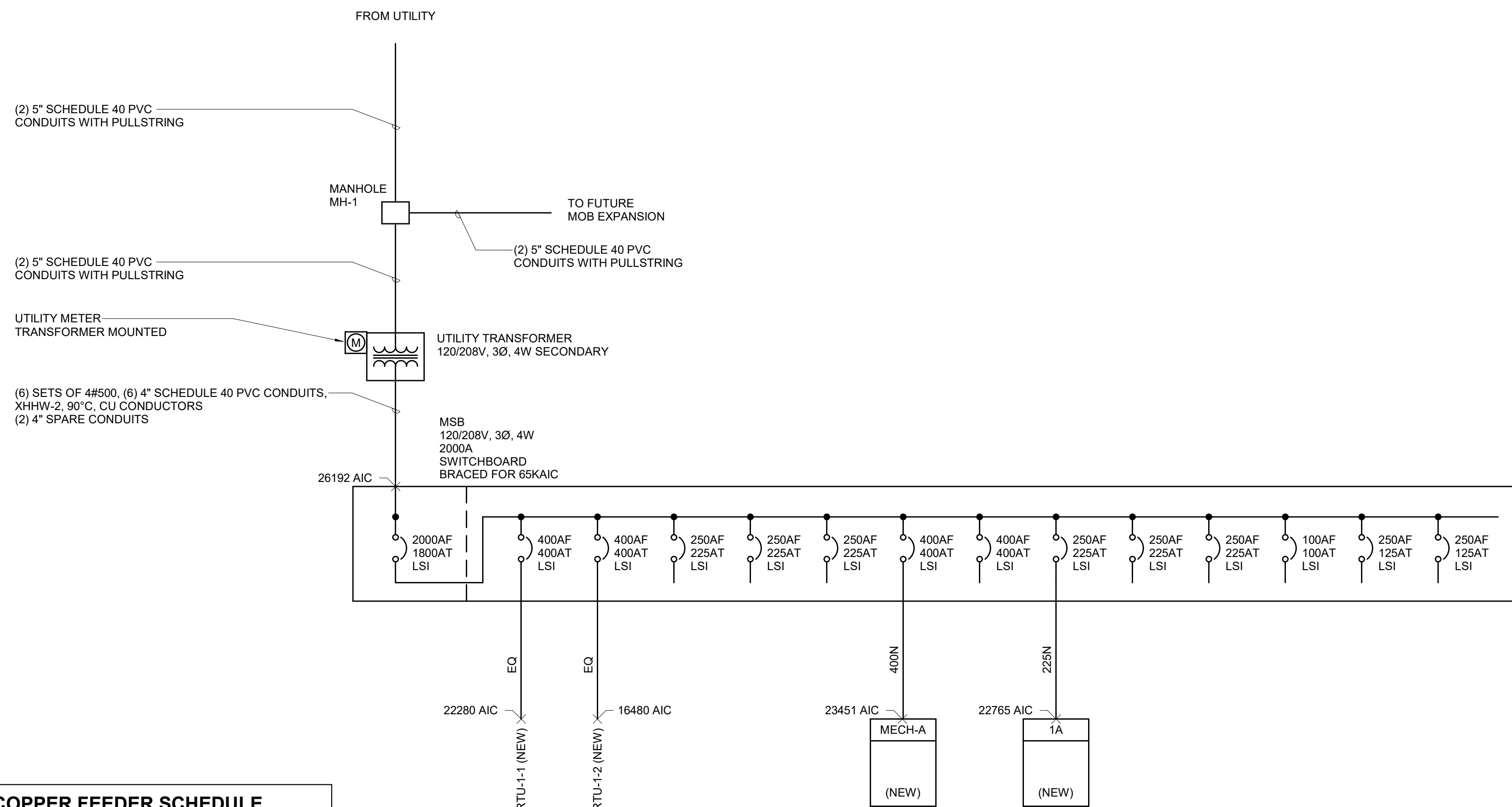
6



EQUIPMENT NAMEPLATE DETAILS

7





COPPER FEEDER SCHEDULE			
DESIGNATION	CONDUCTORS AWG/KCMIL	EQUIPMENT GROUND	CONDUIT
225N	4# 4/0	1#4	2-1/2"
400N	4#500	1#2	4"
EQ	REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION		

1 ONE LINE DIAGRAM

Name: MECH-A													
Location: MSB													
Supply From: MSB													
Mounting: SURFACE													
Enclosure: NEMA 1													
Notes:													
1	EF-1-1	20	1	1176	0								2
3	EF-1-2	20	1		696	0							4
5	EF-2-1	20	1				1176	0					6
7	EF-2-2	20	1	696	0								8
9	SPARE	30	3										10
11	SPARE	20	1										12
13	SPARE	20	1										14
15	SPARE	20	1										16
17	SPARE	20	3										18
19	SPARE	20	1										20
21	SPARE	20	2										22
23	SPARE	20	1										24
25	SPARE	20	2										26
27	SPARE	20	1										28
29	SPARE	20	1										30
31	SPARE	20	2										32
33	SPARE	20	1										34
35	SPARE	15	3										36
37	SPARE	20	1										38
39	SPARE	20	1										40
41	SPARE	20	3										42
43	SPARE	20	1										44
45	SPARE	20	2										46
47	SPARE	20	2										48
49	SPARE	20	1										50
51	SPARE	60	3										52
53	SPARE	20	1										54
55	SPARE	60	3										56
57	SPARE	20	1										58
59	SPARE	20	1										60
61	SPARE	20	2										62
63	SPARE	20	1										64
65	SPARE	20	1										66
67	SPARE	20	1										68
69	SPARE	20	1										70
71	SPARE	20	1										72
73	SPARE	20	1										74
75	SPARE	20	1										76
77	SPARE	20	1										78
79	SPARE	20	1										80
81	SPARE	20	1										82
83	SPARE	20	1										84
<b>Total Load:</b>				1872 VA	1896 VA	2376 VA							
<b>Total Amps:</b>				16 A	16 A	20 A							
Load Classification	Connected Load	Demand Factor	Demand Load	Panel Totals									
HVAC	3744 VA	100.00%	3744 VA										
Rec	1200 VA	100.00%	1200 VA	Total Conn. Load: 6144 VA									
MISC	1200 VA	70.00%	840 VA	Total Demand: 5784 VA									
				Total Conn. Current: 17 A									
				Total Demand Current: 16 A									
<b>Notes:</b>													

Name: 1A													
Location: MSB													
Supply From: MSB													
Mounting: SURFACE													
Enclosure: NEMA 1													
Notes:													
1	SITE LIGHTING	20	2	768	0								2
3	POLE RECEPTACLE	20	1				1200	0					4
5	POLE RECEPTACLE	20	1										6
7	SPARE	20	1										8
9	SPARE	20	1										10
11	SPARE	20	1										12
13	SPARE	20	1										14
15	SPARE	20	1										16
17	SPARE	20	1										18
19	SPARE	20	1										20
21	SPARE	20	1										22
23	SPARE	20	1										24
25	SPARE	20	1										26
27	SPARE	20	1										28
29	SPARE	20	1										30
31	SPARE	20	1										32
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39	SPARE	20	1										40
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73	SPARE	20	1										74
75	SPARE	20	1										76
77	SPARE	20	1										78
79	SPARE	20	1										80
81	SPARE	20	1										82
83	SPARE	20	1										84
<b>Total Load:</b>				1968 VA	768 VA	1200 VA							
<b>Total Amps:</b>				17 A	6 A	11 A							
Load Classification	Connected Load	Demand Factor	Demand Load	Panel Totals									
1st Site	1536 VA	100.00%	1536 VA										
Rec	2400 VA	100.00%	2400 VA	Total Conn. Load: 3936 VA									
				Total Demand: 3936 VA									
				Total Conn. Current: 11 A									
				Total Demand Current: 11 A									
<b>Notes:</b>													

**PANEL SCHEDULE NOTES**

1. PROVIDE GFCI CIRCUIT BREAKER FOR EQUIPMENT PROTECTION.

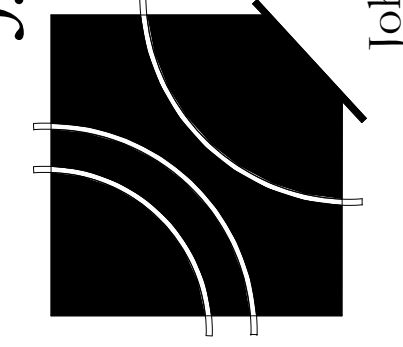












Freestanding Medical Office Building Shell for:  
**Sullivan County Community Hospital**  
Sullivan, Indiana

DOOR RESPONSIBILITY MATRIX				
DESCRIPTION	DIV 26	DOOR HARDWARE INSTALLER (DIV5)	SECURITY CONTRACTOR (DIV26)	FIRE ALARM CONTRACTOR (DIV26)
DOOR HARDWARE CONDUIT	X			
DOOR LOCKING HARDWARE		X		
DOOR HARDWARE WIRING FROM LOCK TO AC PANEL			X	
CARD READER			X	
FIRE ALARM CONNECTION AT ACCESS CONTROL PANEL				X

**THEORY OF OPERATION:**  
 1. NORMAL STATE OF DOOR IS CLOSED AND ELECTRONICALLY LOCKED WITH FREE EGRESS AT ALL TIMES.  
 2. A VALID ID BADGE PRESENTED TO CARD READER WILL UNLOCK DOOR.  
 3. POSITION SWITCH MONITORS DOOR STATUS AT ALL TIMES. REQUEST-TO-EXIT (RX) SENSORS WITHIN DOOR HARDWARE WILL SHUNT DOOR STATUS ALARM.  
 4. DOOR HARDWARE WILL INCLUDE MECHANICAL KEY OVERRIDE.

**ELECTRIC EXIT DEVICE - SINGLE DOOR - CARD READER IN** 3

**EXTERIOR WALL MOUNT MULTI-SENSOR CAMERA - CORNER BRACKET** 5

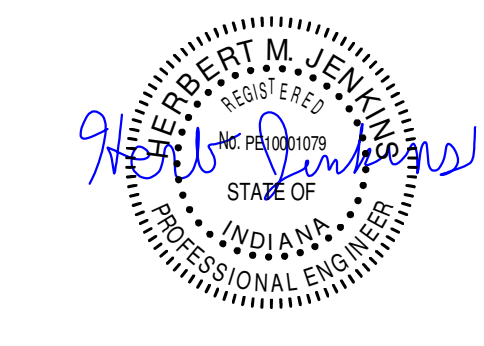
**NOTE:**  
THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE USER'S RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IS IN ACCORDANCE WITH BUILDING/PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.

**NOTES:**  
 1. PROVIDE STANDARD HANDHOLE OF DIMENSIONS CALLED OUT IN DRAWINGS AND SPECIFICATIONS.  
 2. COVER, RING AND BOX SHALL BE MADE OF SAME MATERIAL.  
 3. ALL CONDUITS MUST ENTER HAND HOLE HORIZONTALLY.

**TYPICAL HANDHOLE DETAIL** 2

**EXTERIOR FIXED CAMERA - HARD CEILING** 4

**TYPICAL COMPACT FILL STRUCTURE** 1



02.26.24

Sheet Re-Issue Log  
(Individual revisions clouded and labeled within each sheet)

Project Number  
**23987.02**  
DATE  
**February 28, 2024**

**T5.0**  
TECHNOLOGY  
DETAILS - SHELL