

# HOLY TRINITY CATHOLIC CHURCH

355 OREGON AVE SE, BANDON, OR 97411



**3 EXTERIOR PERSPECTIVE FROM SOUTHEAST**  
N.T.S.



**2 INTERIOR PERSPECTIVE IN NAVE**  
N.T.S.

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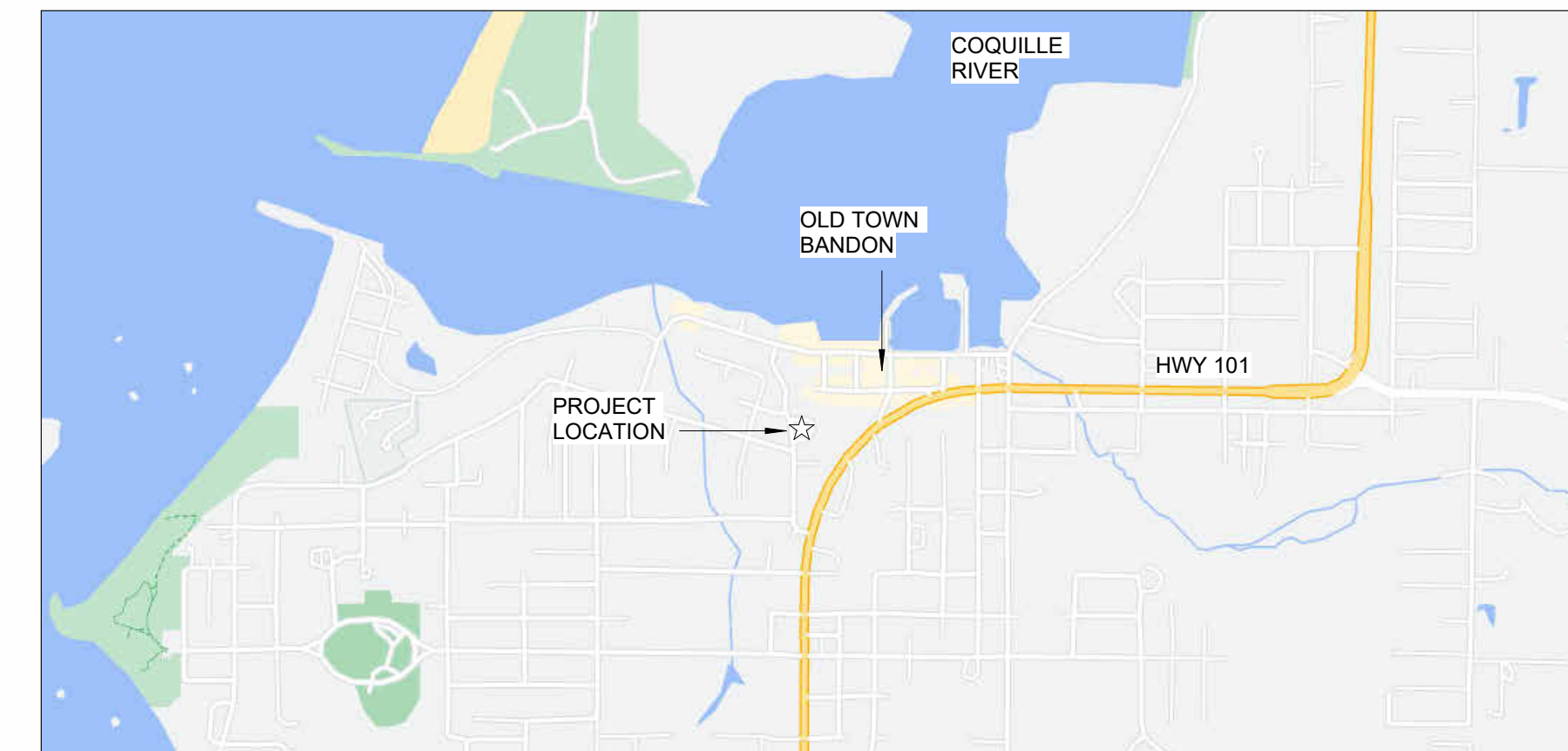
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## PROJECT TEAM

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HGE ARCHITECTS INC.  
333 SOUTH 4TH STREET  
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CONTACT: JOE SLACK

**STRUCTURAL**  
DCI ENGINEERS  
921 SW WASHINGTON STREET, SUITE 560  
PORTLAND, OR 97205  
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CONTACT: KYLE KRAXBERGER

**MECHANICAL, PLUMBING, & ELECTRICAL**  
INTERFACE ENGINEERING INC.  
100 SW MAIN ST  
SUITE 1600  
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PHONE: (503) 382-2266  
CONTACT, MECH. & PLUMB.: RICK SILENZI  
CONTACT, ELEC.: JEFFREY GLANVILLE



**1 VICINITY MAP**  
1/16" = 1'-0"

PROJECT NO.: 23.76  
HOLY TRINITY CATHOLIC CHURCH  
335 OREGON AVE SE  
BANDON, OREGON 97411

### CONSTRUCTION

REVISIONS:  
# DATE DESCRIPTION

DATE: JULY 2024

SHEET TITLE:  
COVER SHEET

G0.0







RENEWS 12/31/24

**Stuntzner**  
Engineering & Forestry, Inc.

705 SO. 4TH STREET  
COOS BAY, OREGON 97420

PHONE: (541) 267-2872  
FAX: (541) 267-0588  
www.stuntzner.com

Engineering - Land Surveying - Forestry - Land Planning - Water Rights

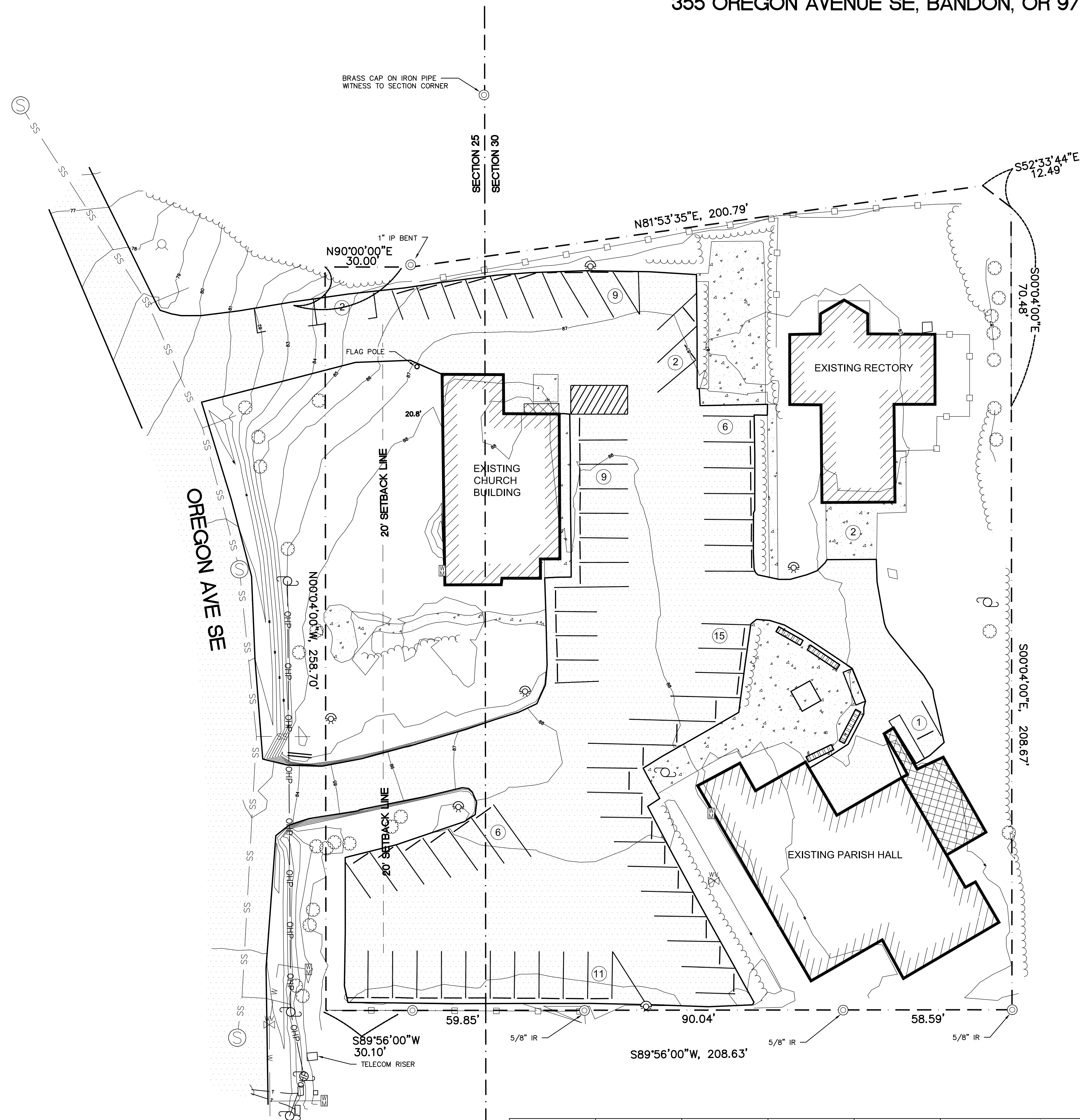
JOB #: 122-3-183  
DATE: 3/31/2023  
DRAWN BY: SIE  
CHECKED BY: ARM

PREPARED FOR:  
HOLY TRINITY CATHOLIC CHURCH  
355 OREGON AVENUE SE  
BANDON, OR 97411

FILE NAME: EXISTING CONDITIONS MAP.dwg  
SHEET 1 OF 1

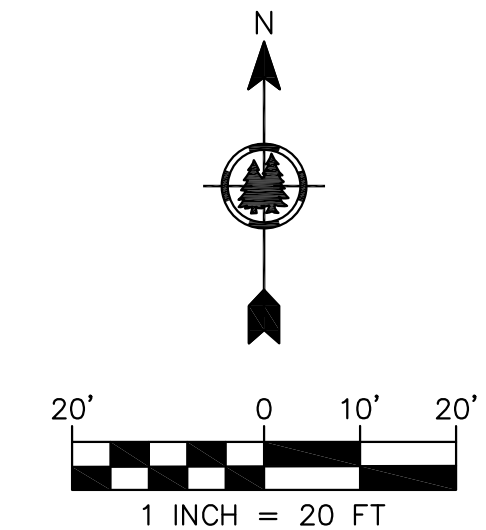
# TOPOGRAPHIC SURVEY OF TAX LOT 4100 SECTION 30CB, T28S, R14W, W.M. COOS COUNTY, OR

355 OREGON AVENUE SE, BANDON, OR 97411



### LEGEND

SYMBOL	DESCRIPTION
---	PROPERTY BOUNDARY
- - -	PROPERTY LINES
—151—	1' CONTOUR
—150—	5' CONTOUR
---	RETAINING WALL
- - -	BURIED UTILITY/TELECOM LINES
OHP	OVERHEAD UTILITY LINES
□	FENCE
~	VEGETATION/LANDSCAPING
▨	PARKING STRIPING
▩	BUILDING
▭	ASPHALT
▧	SIDEWALK/PAVERS
▩	DECK
▨	BENCH
▨	SIGN
⊙	WHEEL STOP
⊙	MONUMENT AS NOTED
⊙	LIGHT POLE
⊙	UTILITY POLE
⊙	EXISTING TREE
⊙	FIRE HYDRANT
⊙	WATER VALVE
⊙	WATER METER



1  
A1.0 EXISTING CONDITIONS MAP  
SCALE: 1" = 20'

TAX LOT 4100 AREA (FT <sup>2</sup> )	BUILDING AREA (FT <sup>2</sup> )	AREA OF PAVERS (FT <sup>2</sup> )	AREA OF DECK (FT <sup>2</sup> )	AREA OF ASPHALT (FT <sup>2</sup> )	PERVIOUS AREA (VEGETATION, GRASS, ETC.) (FT <sup>2</sup> )	CHURCH / PARISH HALL PARKING	RECTORY PARKING
64,783.20	9,274.83	4,512.41	554.08	25,684.44	24,757.44	57 STD. / 2 PARALLEL / 2 ADA	2 SPACES

**HGE**  
ARCHITECTS, INC.

333 S. 4TH STREET  
COOS BAY, OR 97420  
P: 541.269.1166  
www.hge1.com  
general@hge1.com

REGISTERED ARCHITECT  
2840  
JOSEPH A. SLACK  
COOS BAY, OREGON  
STATE OF OREGON

PROJECT NO.: 23.75  
**HOLY TRINITY CATHOLIC CHURCH**  
355 OREGON AVENUE SE  
BANDON, OREGON

**CONSTRUCTION**

REVISIONS:

#	DATE	DESCRIPTION

DATE: JULY 2024  
SHEET TITLE:  
**EXISTING CONDITIONS MAP**

**A1.0**



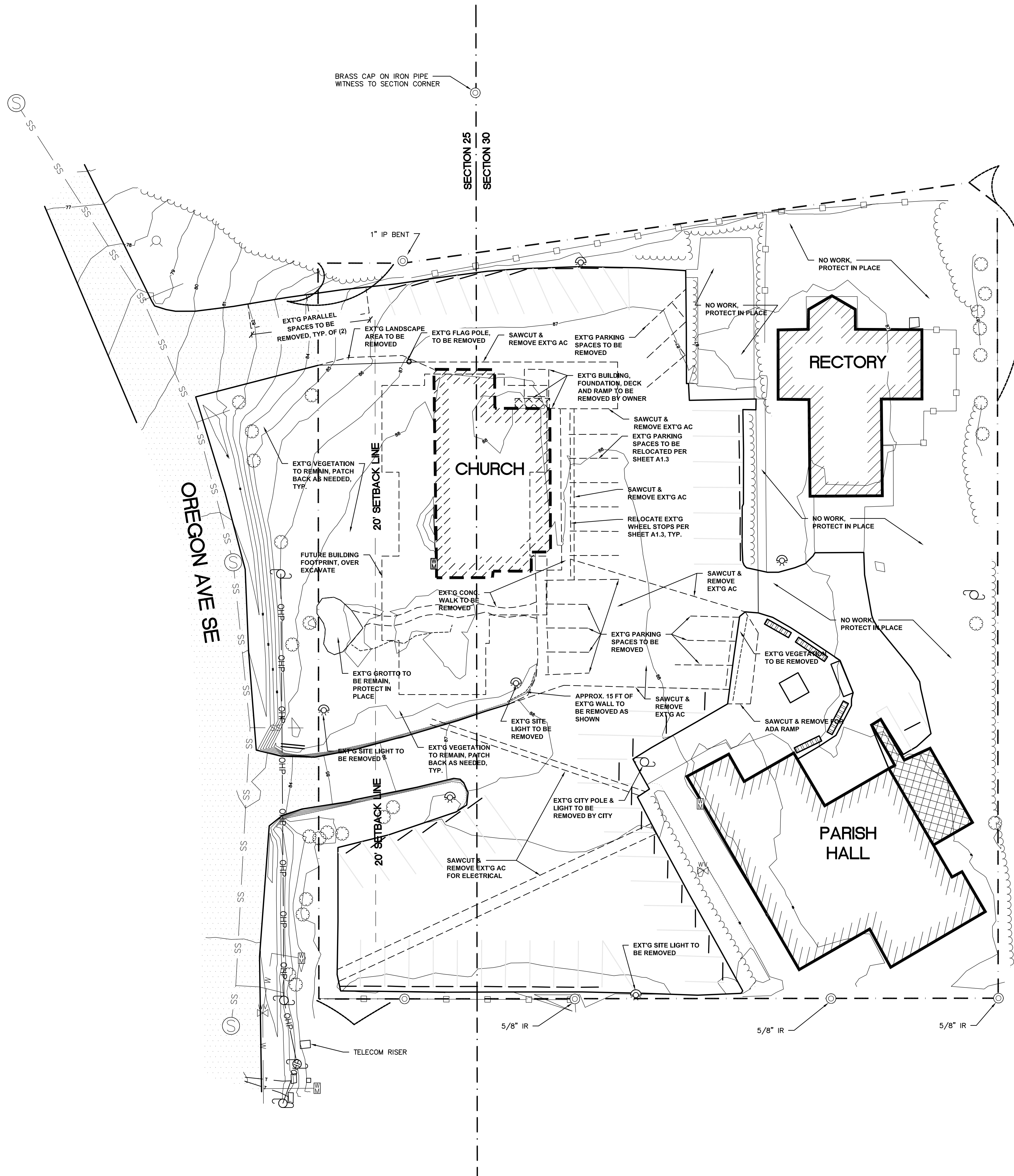
CONSTRUCTION

REVISIONS:		
#	DATE	DESCRIPTION

DATE: JULY 2024

SHEET TITLE:  
**SITE DEMO PLAN**

A1.1

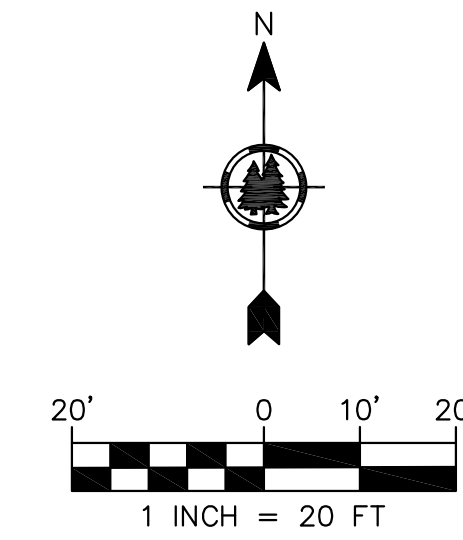


NOTES:

- OWNER TO REMOVE EXISTING CHURCH BUILDING, INCLUDING FOUNDATION.
- CONTRACTOR TO PROVIDE OWNER ACCESS TO RECTORY AND PARISH HALL THROUGHOUT CONSTRUCTION.

LEGEND

SYMBOL	DESCRIPTION
---	PROPERTY BOUNDARY
---	PROPERTY LINES
—151—	1' CONTOUR
—150—	5' CONTOUR
---	RETAINING WALL
---	BURIED UTILITY/TELECOM LINES
—OHP—	OVERHEAD UTILITY LINES
—	FENCE
~	VEGETATION/LANDSCAPING
—	PARKING STRIPING
▨	BUILDING
▩	ASPHALT
▧	SIDEWALK/PAVERS
▦	DECK
▤	BENCH
▥	SIGN
—	WHEEL STOP
⊙	MONUMENT AS NOTED
⊙	LIGHT POLE
⊙	UTILITY POLE
⊙	EXISTING TREE
⊙	FIRE HYDRANT
⊙	WATER VALVE
⊙	WATER METER



1 SITE DEMO PLAN  
A1.1 SCALE: 1" = 20'



CONSTRUCTION

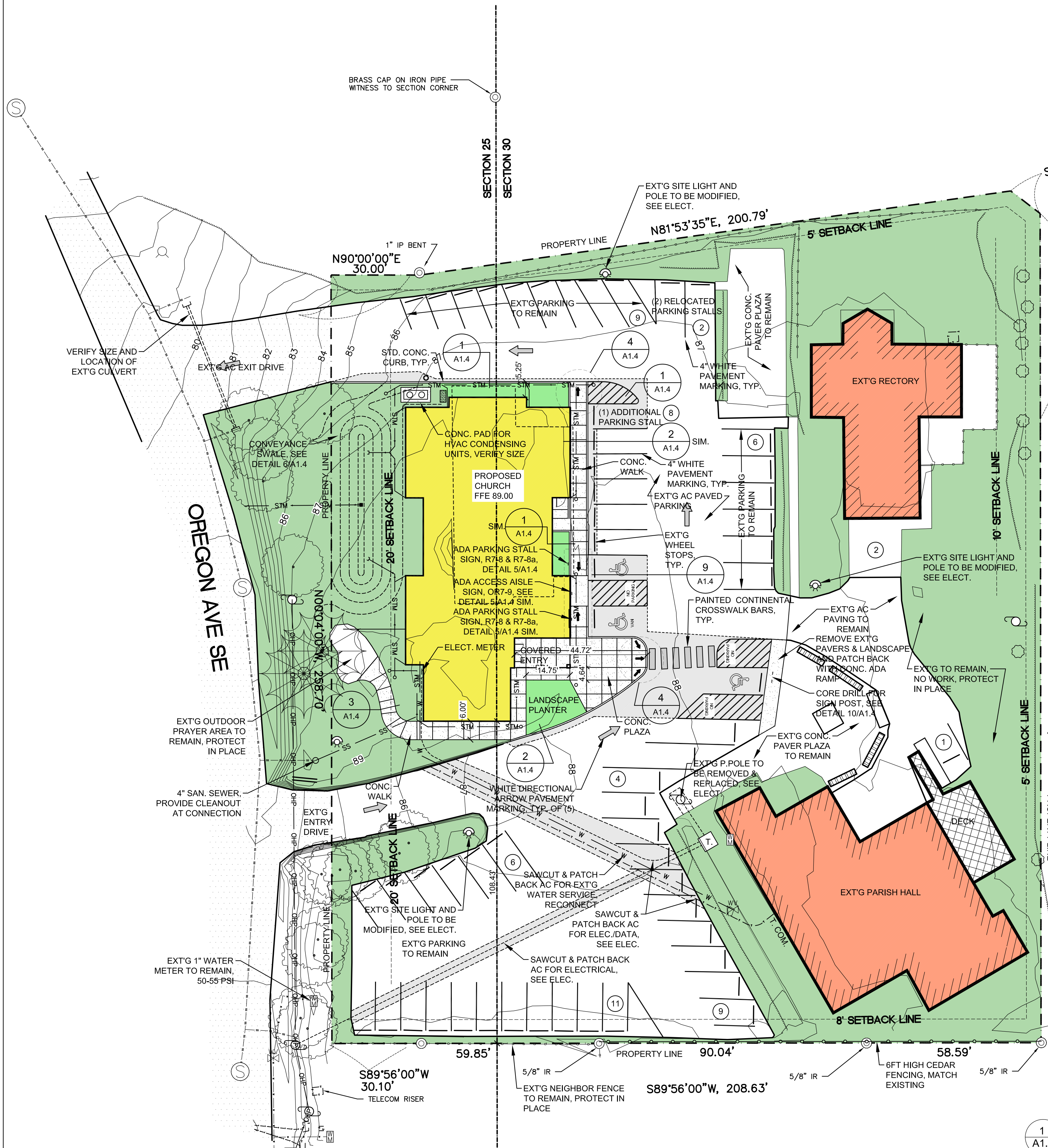
#	DATE	DESCRIPTION

DATE: JULY 2024

SHEET TITLE:

SITE LAYOUT PLAN

A1.2



SITE DATA

MAP NO.: 28S 14W 30CB  
PARCEL NO.: 4100  
TOTAL LOT SIZE: 64,795 SF (1.49 AC)

(E) CHURCH BUILDING TO BE REMOVED: 2,599 SF  
(E) RECTORY: 2,259 SF  
(E) PARISH HALL: 4,417 SF  
TOTAL: 9,275 SF, 14.32% OF LOT

EXISTING IMPERVIOUS SURFACES:  
BUILDINGS: 9,275 SF  
CONC. / AC PAVING: 30,197 SF  
TOTAL: 39,472 SF, 60.92% OF LOT

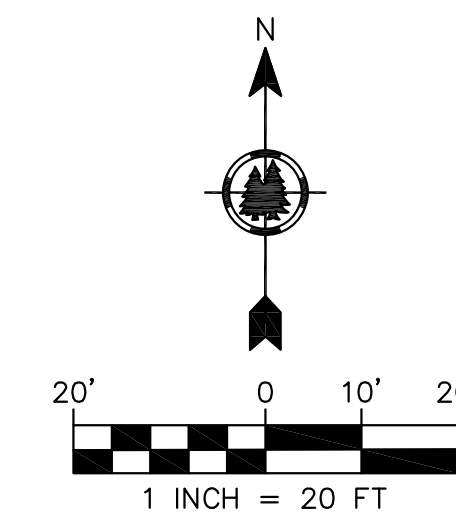
PROPOSED IMPERVIOUS SURFACES:  
BUILDINGS:  
CHURCH BUILDING: 4,965 SF  
(E) RECTORY: 2,259 SF  
(E) PARISH HALL: 4,417 SF  
SUBTOTAL: 11,641 SF, 17.96% OF LOT

SITE:  
AC PAVING: 24,552 SF  
CONC. PAVING: 5,698 SF  
SUBTOTAL: 30,250 SF, 46.68% OF LOT

TOTAL PROPOSED IMPERVIOUS SURFACES: 41,891 SF, 64.65% OF LOT  
ALLOWABLE = 65%

PARKING:

EXISTING PARKING	Net Existing Spaces	63 spaces existing (2)	61 net spaces
Less 1-1/2 existing spaces off property			
<b>PARKING REQUIREMENTS - TOTAL, 3 BUILDINGS ON CAMPUS</b>			
<b>1 CHURCH</b>			
1 space per 8' pew	240 ft	8	30 spaces required
1 space per 4 seats	8 seats	4	2 spaces required
<b>2 PARISH HALL</b>			
Meeting Room	1,148 sf	Note - this space is a fellowship hall related to church activities before or after church use. These spaces are not used simultaneously.	
Occupant load	15 sf/occup.	77 occupants	4 occupants per parking space
Office Area	3,269 sf		19 spaces required
	600 sf/seat		5 spaces required
<b>3 RECTORY (Single Family Residence)</b>			2 spaces required
		Sub-total	59 spaces required
		Less meeting room/fellowship hall (19)	
		<b>TOTAL PARKING REQUIRED</b>	<b>39 spaces required</b>
<b>PROPOSED PARKING (Modified parking spaces and existing)</b>			
		Compliant spaces - approximate	43 (on site)
		Non-compliant spaces	16
		<b>TOTAL</b>	<b>59 spaces</b>



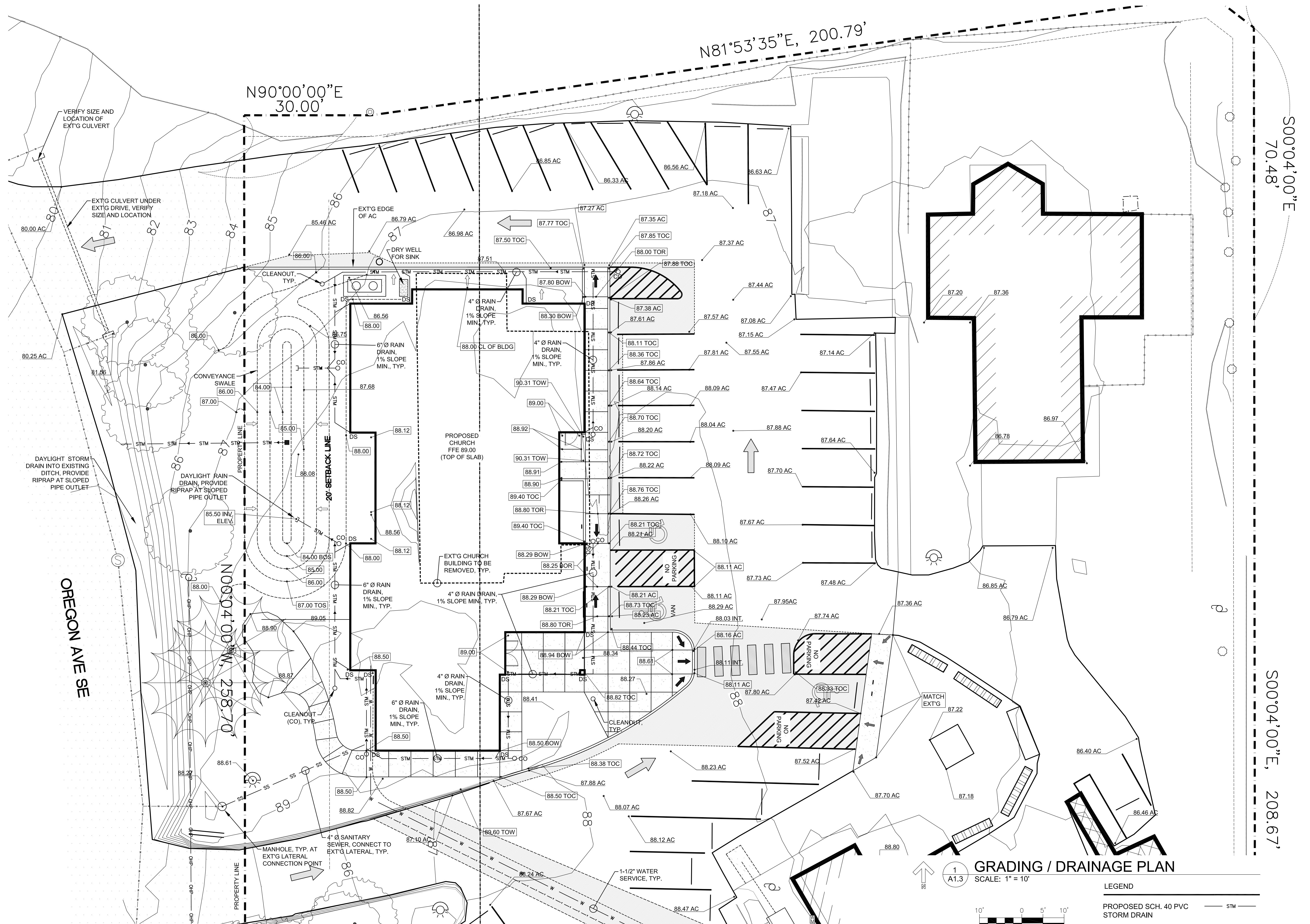
SITE LAYOUT PLAN

SCALE: 1" = 20'

LEGEND

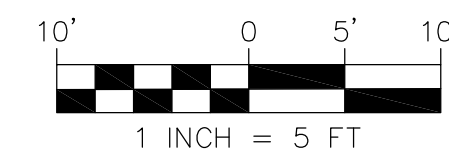
SYMBOL	DESCRIPTION
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---	PROPERTY LINES
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---	5' CONTOUR
---	RETAINING WALL
---	BURIED UTILITY/TELECOM LINES
---	OVERHEAD UTILITY LINES
---	VEGETATION/LANDSCAPING
---	PARKING STRIPING
---	BUILDING
---	ASPHALT
---	SIDEWALK/PAVERS
---	DECK
---	BENCH
---	SIGN
---	WHEEL STOP
---	MONUMENT AS NOTED
---	LIGHT POLE
---	UTILITY POLE
---	EXISTING TREE
---	FIRE HYDRANT
---	WATER VALVE
---	WATER METER





**1 GRADING / DRAINAGE PLAN**

SCALE: 1" = 10'



**LEGEND**

- PROPOSED SCH. 40 PVC STORM DRAIN — STM —
- PROPOSED WATER — W —
- PROPOSED SANITARY — SS —
- EXISTING GRADE — 88.29 AC
- PROPOSED GRADE — 88.16 AC

OREGON AVE SE

N00°04'00"E, 258.70'

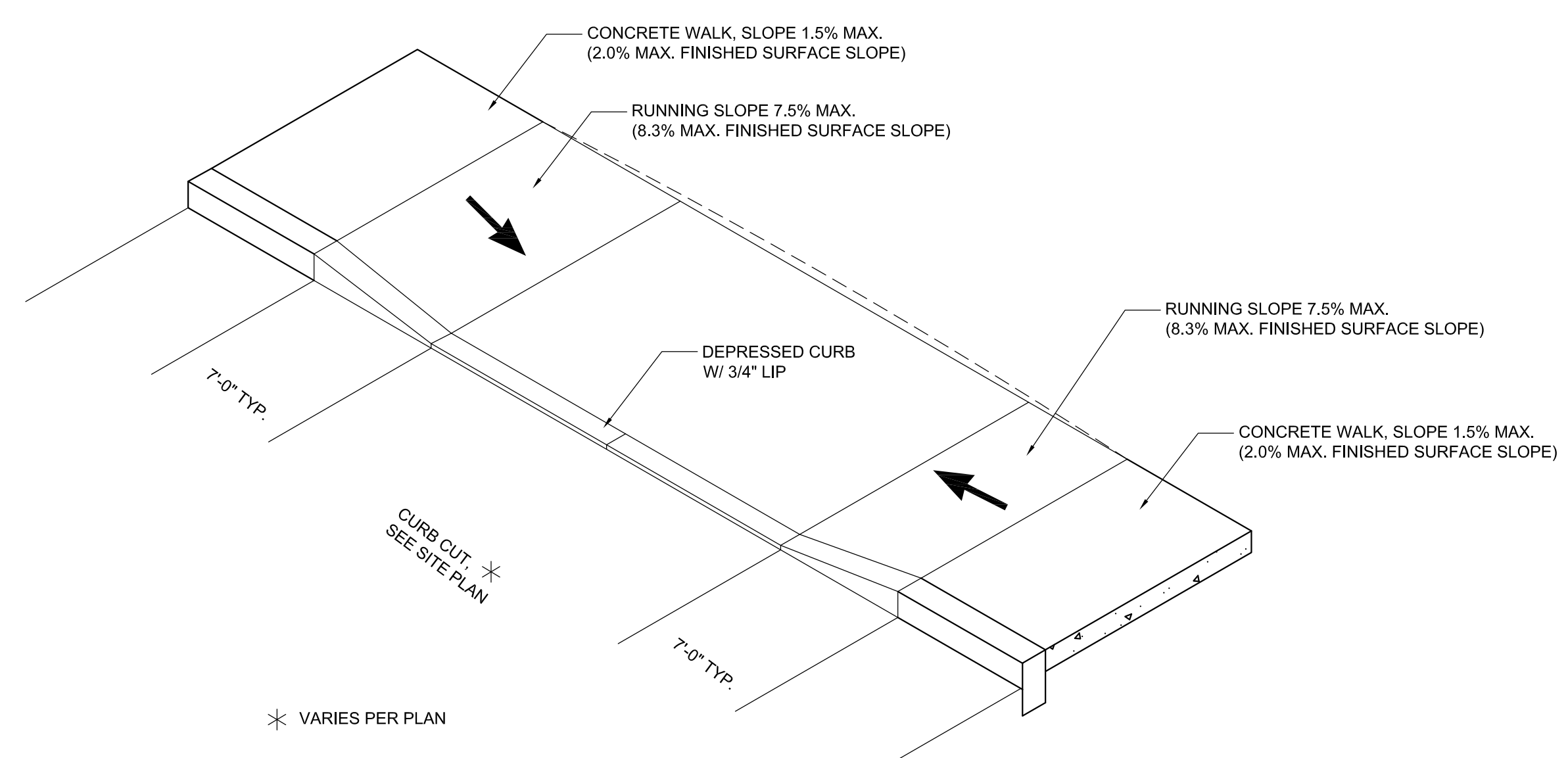
N90°00'00"E  
30.00'

N81°53'35"E, 200.79'

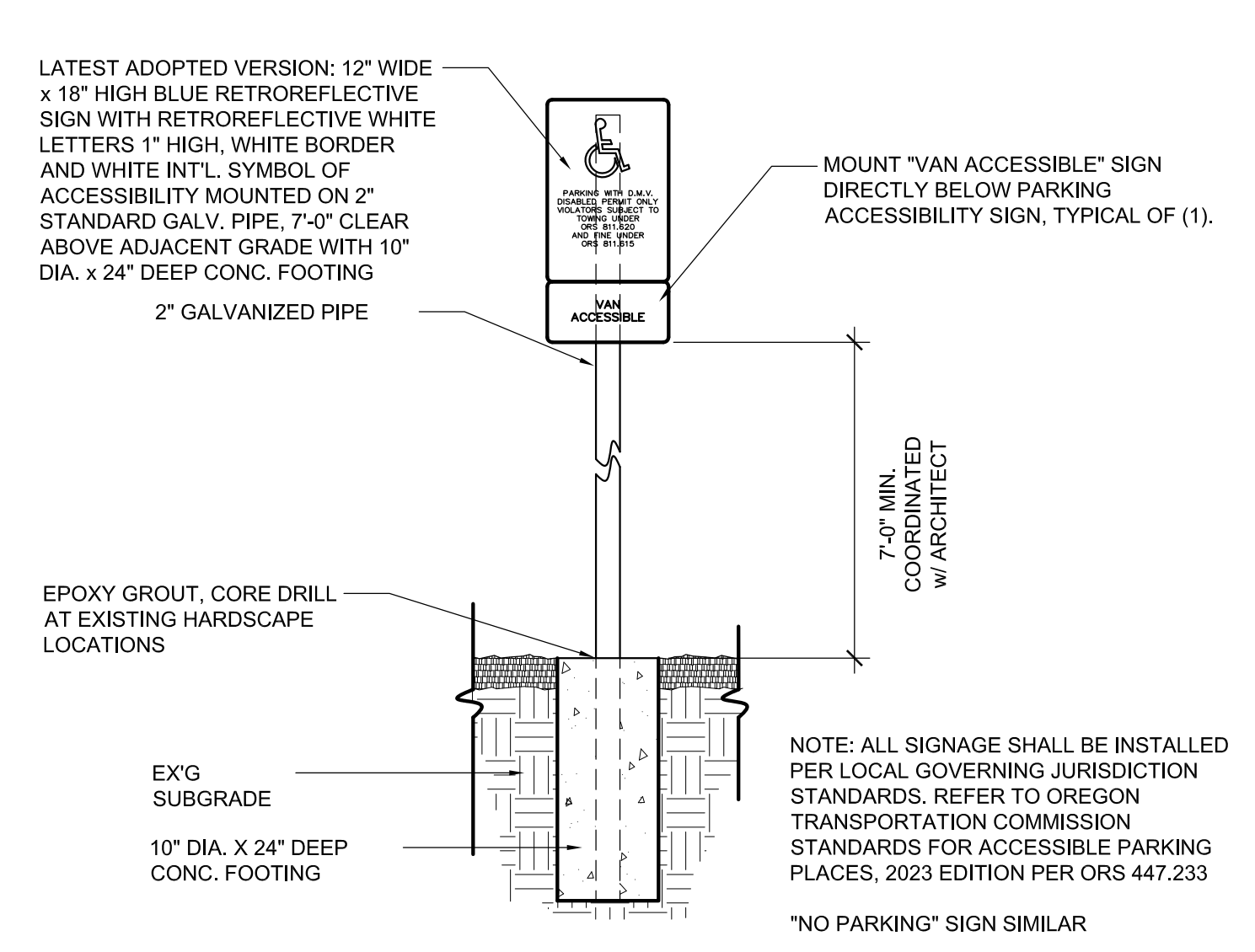
S00°04'00"E  
70.48'

S00°04'00"E, 208.67'

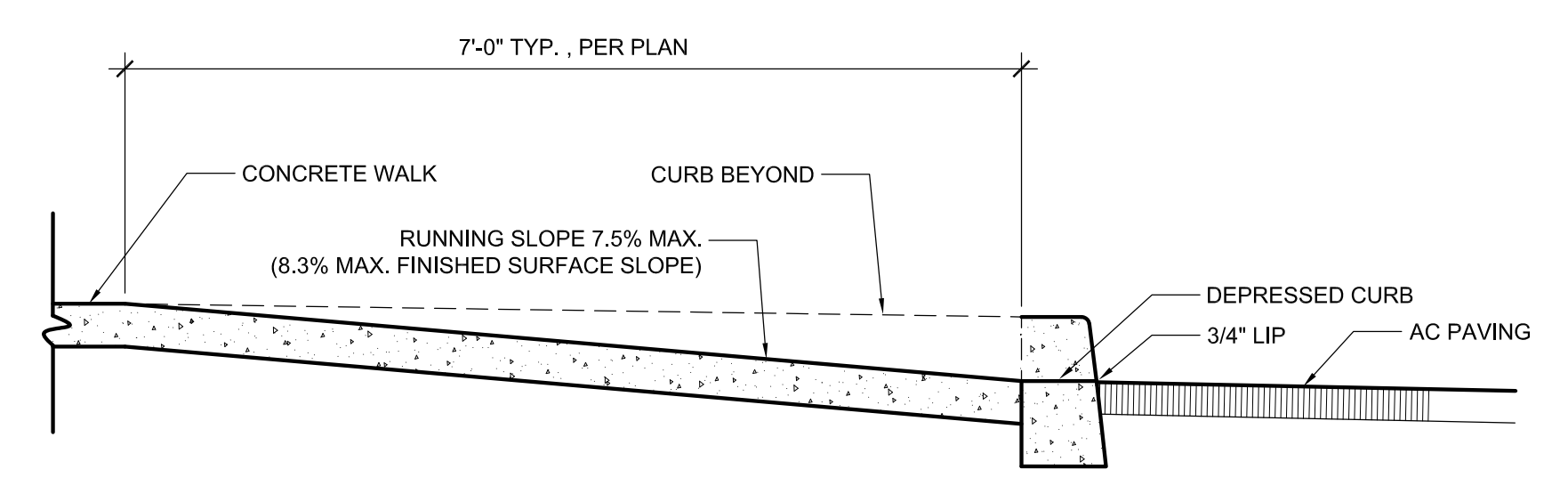




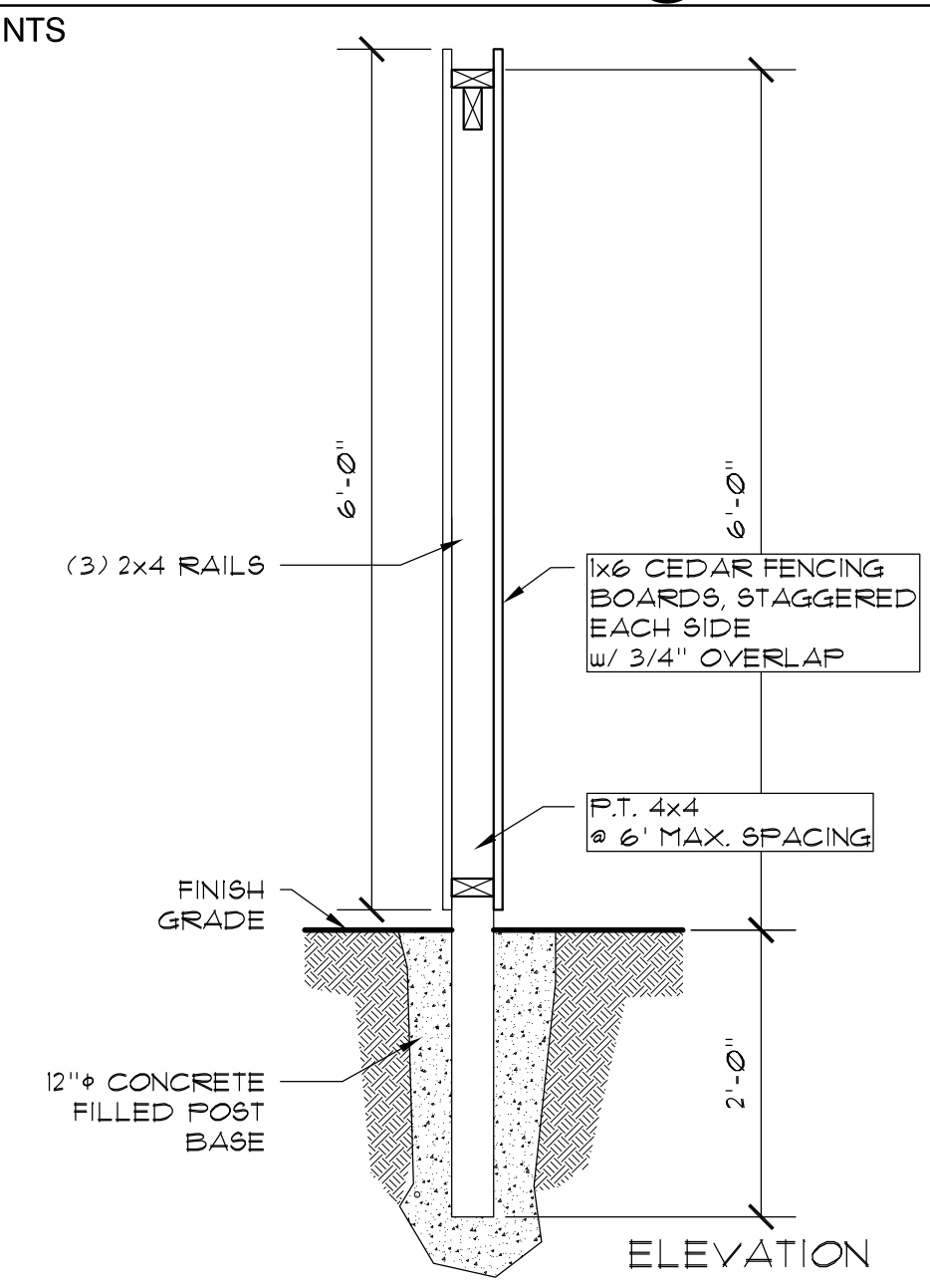
**10 FULLY LOWERED WALK @ ADA PARKING**  
 A1.4 SCALE: NTS



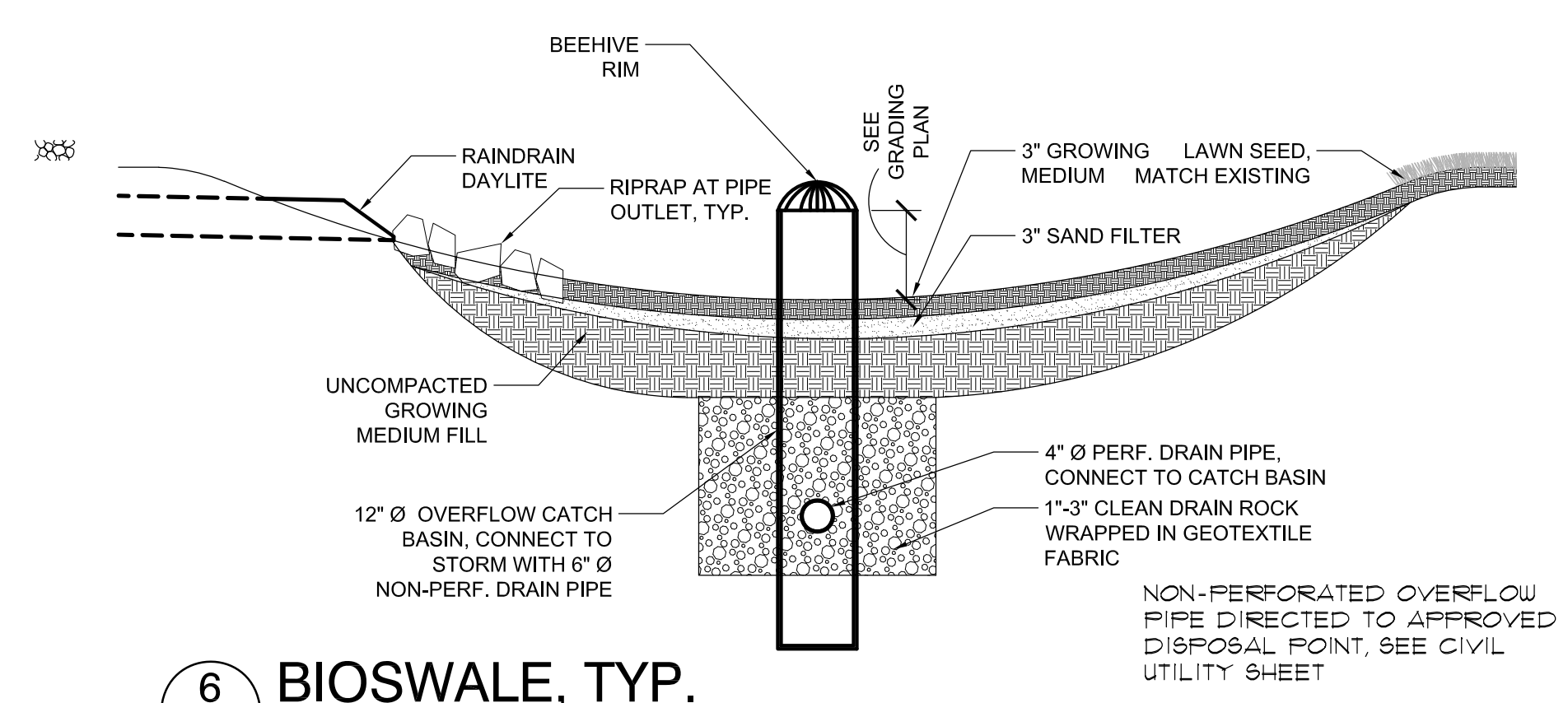
**5 PARKING ACCESSIBILITY SIGN**  
 A1.4 SCALE: NTS



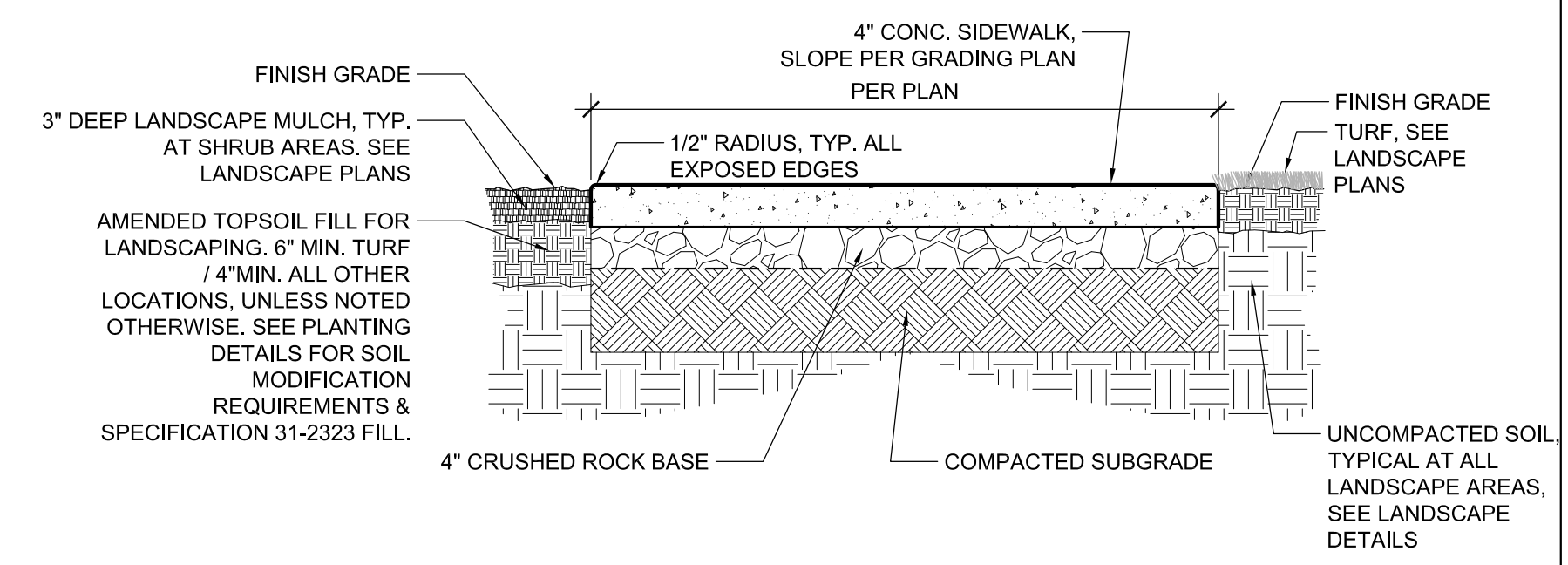
**4 ADA RAMP AT CONCRETE WALK, TYP.**  
 A1.4 SCALE: 3/4\"/>



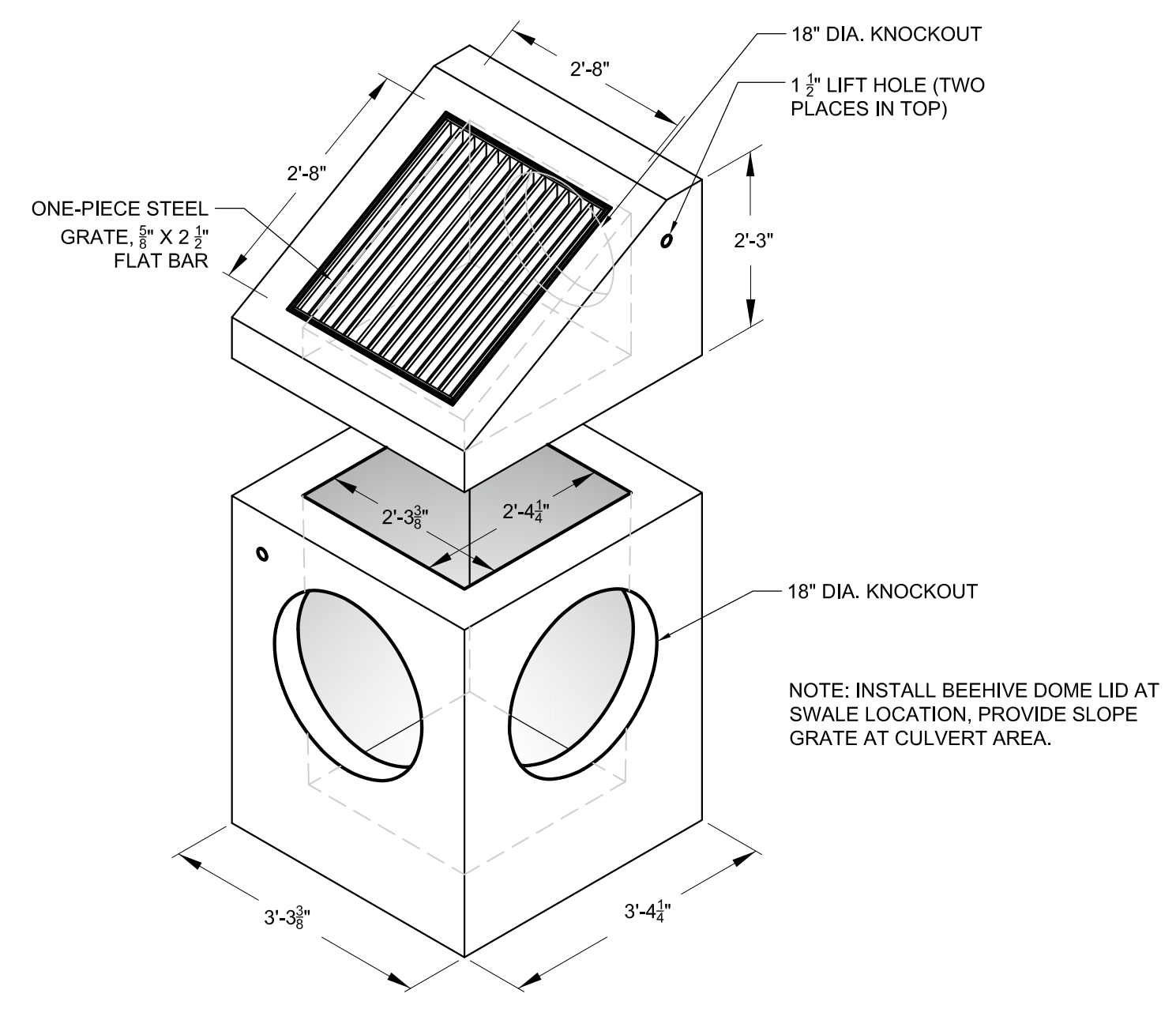
**9 GOOD-NEIGHBOR FENCE**  
 A1.4 SCALE: 3/4\"/>



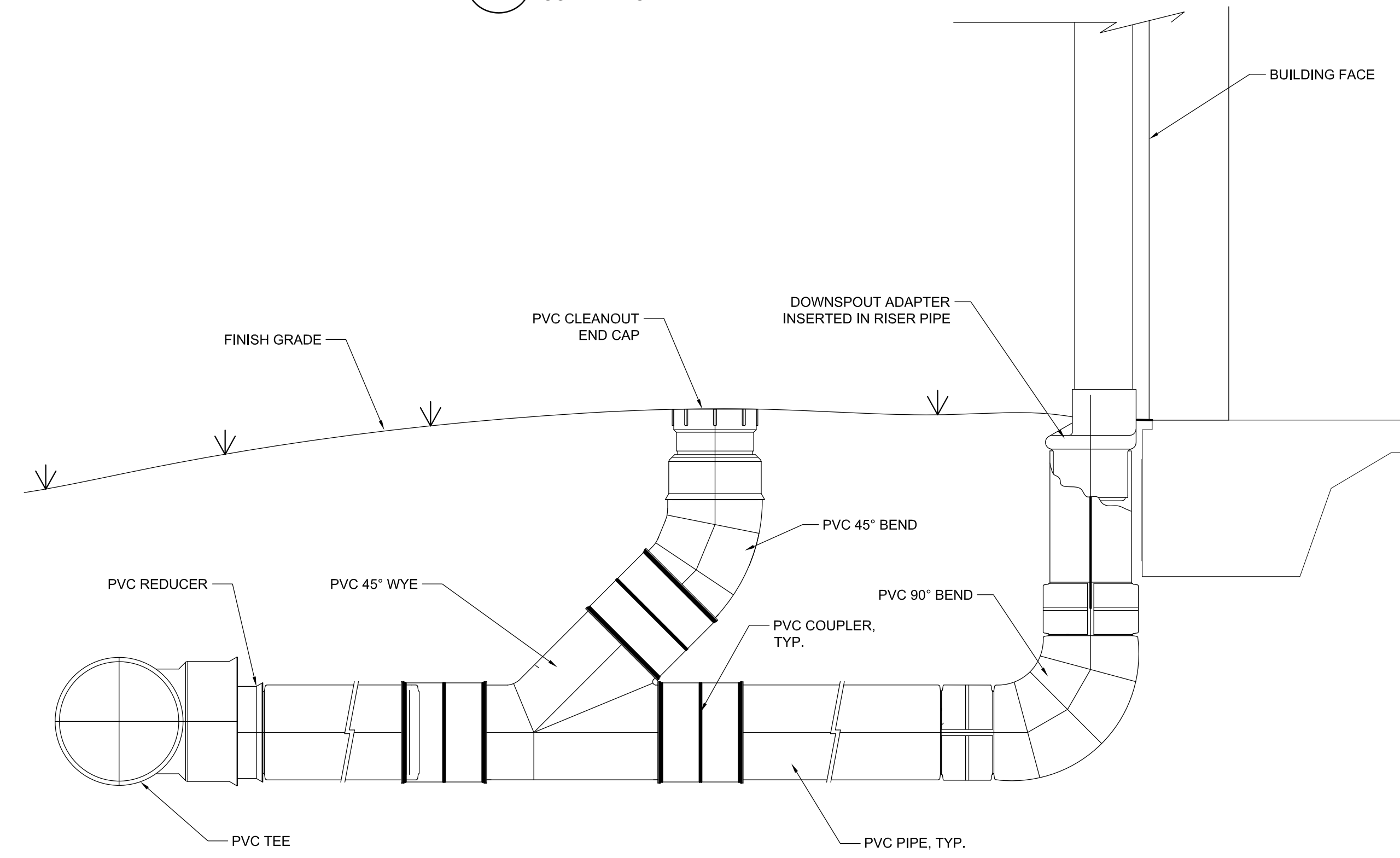
**6 BIOSWALE, TYP.**  
 A1.4 SCALE: NTS



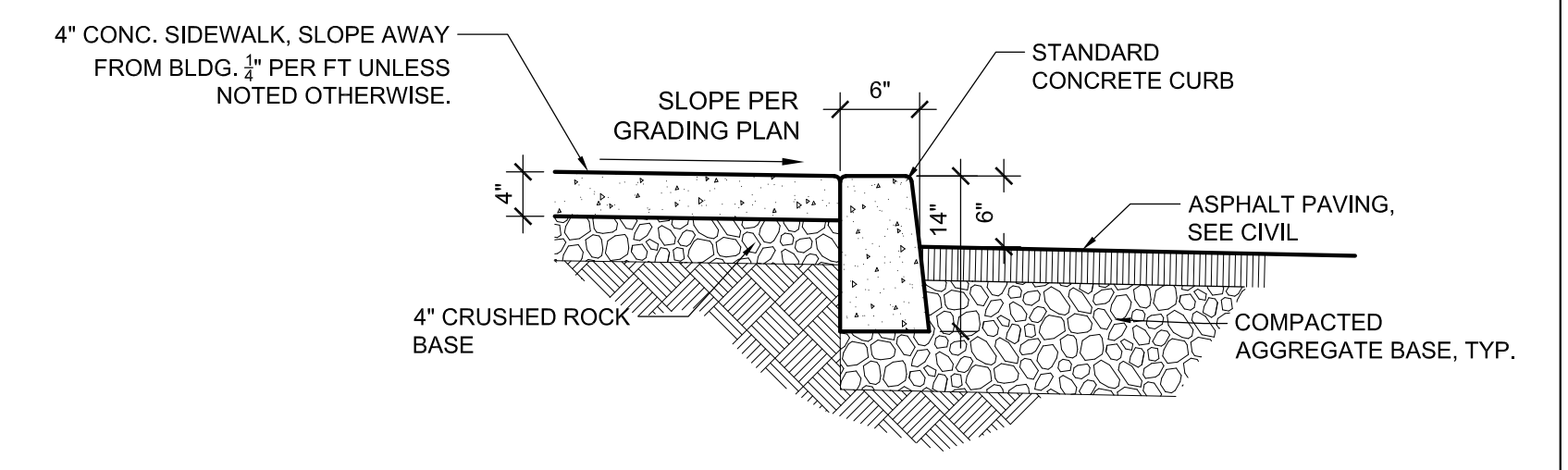
**3 TYPICAL SIDEWALK**  
 A1.4 SCALE: 3/4\"/>



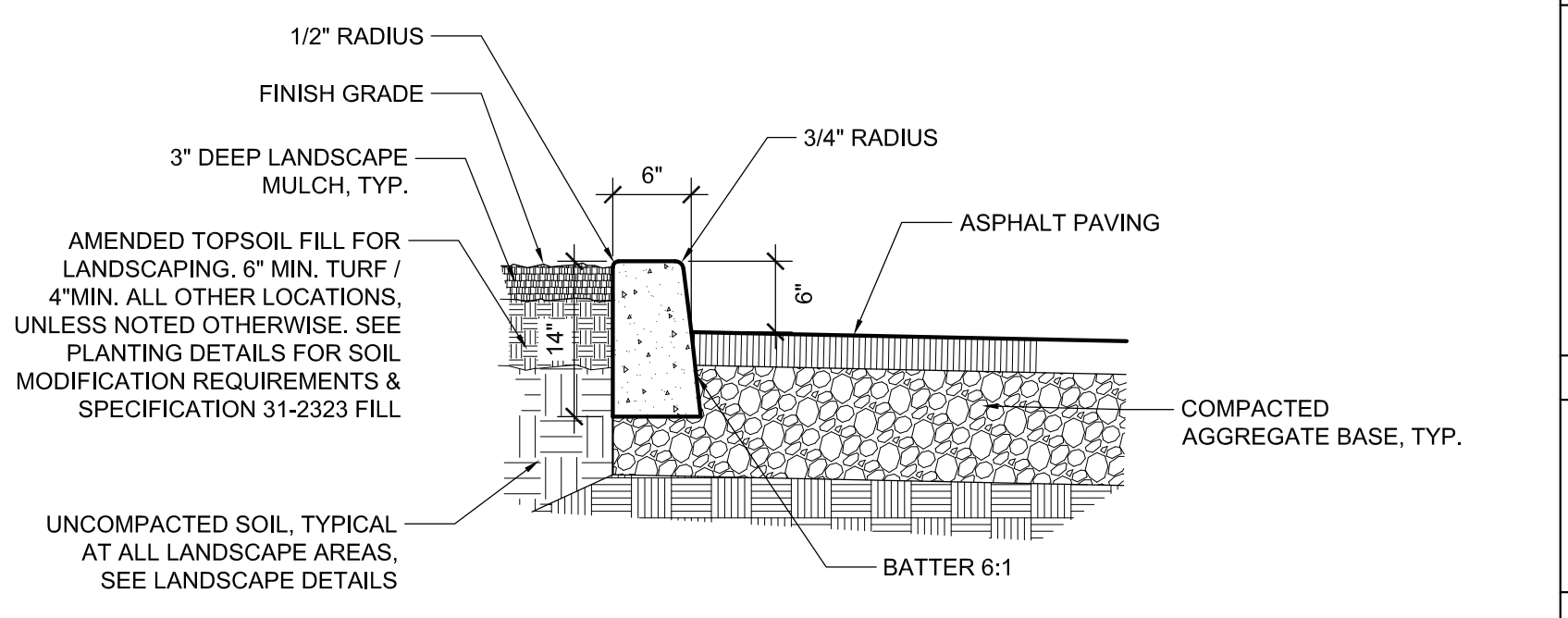
**8 TYPE D (DITCH INLET) CATCH BASIN**  
 A1.4 SCALE: NTS



**7 TYPICAL ROOF DRAIN CLEANOUT**  
 A1.4 SCALE: NTS

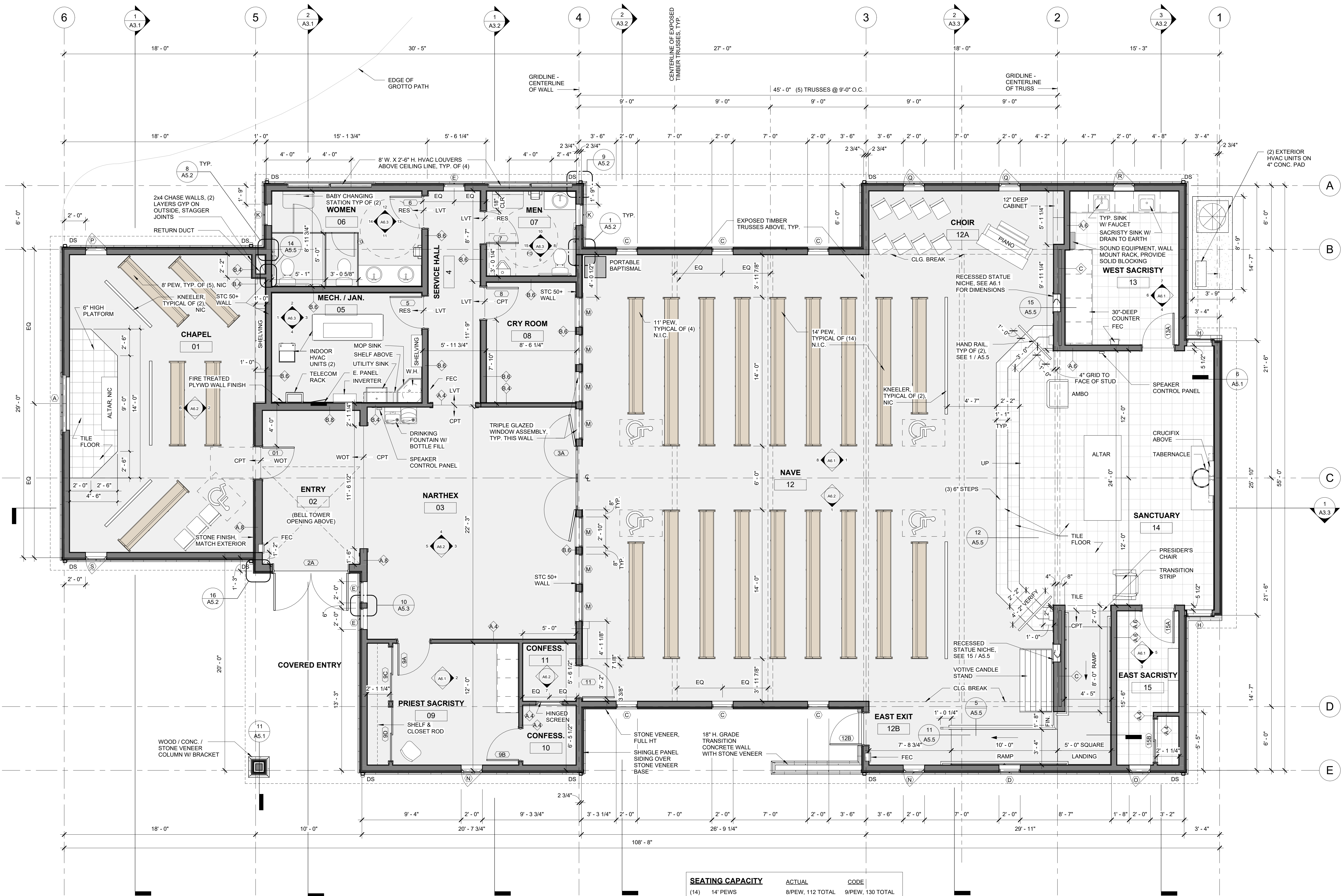


**2 STANDARD CURB W/ SIDEWALK**  
 A1.4 SCALE: 3/4\"/>



**1 STANDARD CONCRETE CURB**  
 A1.4 SCALE: 3/4\"/>





**SEATING CAPACITY**

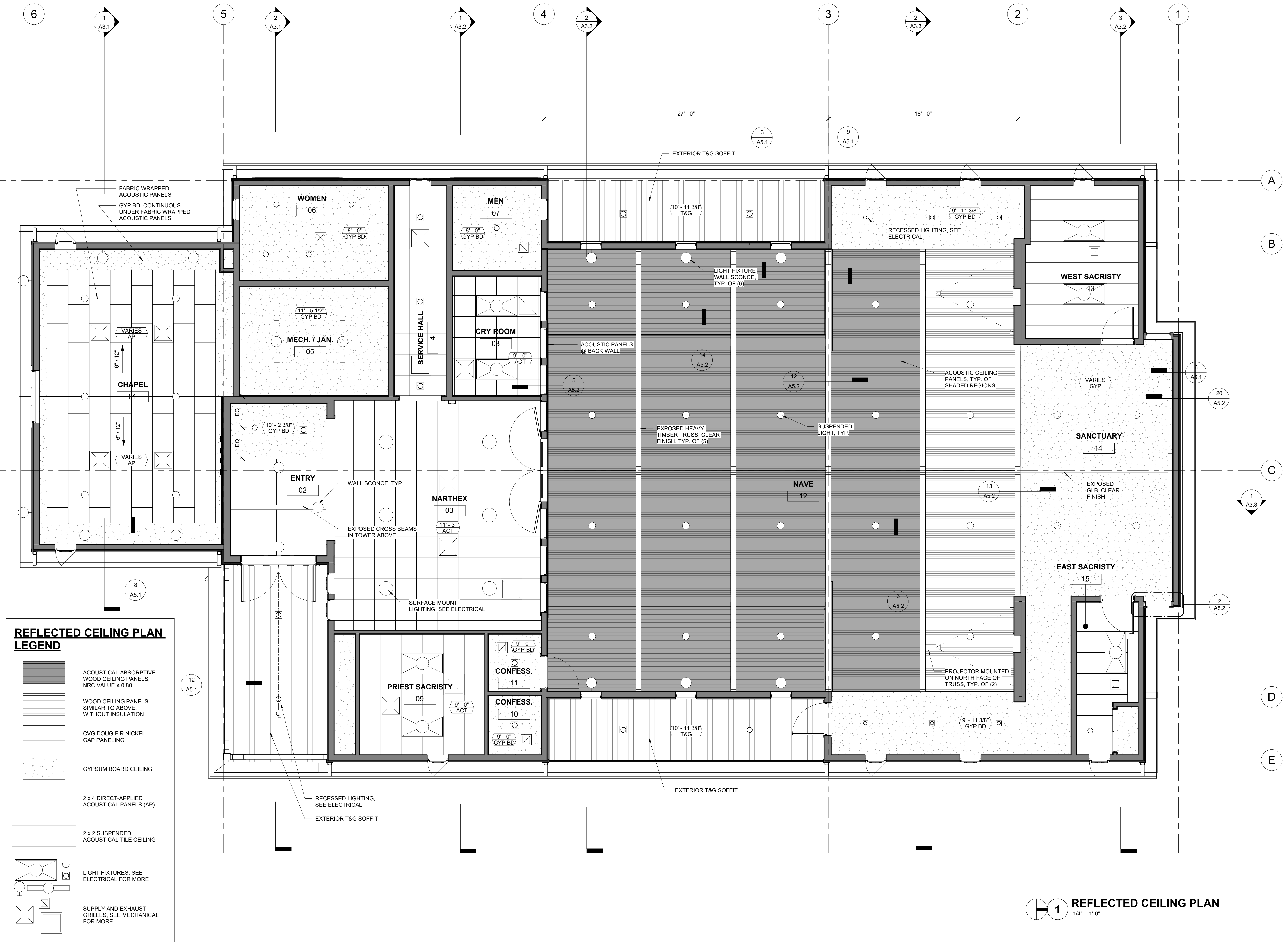
	ACTUAL	CODE
(14) 14' PEWS	8/PEW, 112 TOTAL	9/PEW, 130 TOTAL
(4) 12' PEWS	7/PEW, 28 TOTAL	8/PEW, 32 TOTAL
(4) ACCESSIBLE SEATS	4	4
(8) CHOIR SEATS	8	8
<b>TOTAL</b>	<b>152</b>	<b>174</b>

**CHAPEL SEATING:**  
ACTUAL: 25  
CODE: 33

**1 FLOOR PLAN** AREA: 4,898 SF  
1/4" = 1'-0"

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**REFLECTED CEILING PLAN  
LEGEND**

- ACOUSTICAL ABSORPTIVE WOOD CEILING PANELS, NRC VALUE ≥ 0.80
- WOOD CEILING PANELS, SIMILAR TO ABOVE, WITHOUT INSULATION
- CVG DOUG FIR NICKEL GAP PANELING
- GYPSUM BOARD CEILING
- 2 x 4 DIRECT-APPLIED ACOUSTICAL PANELS (AP)
- 2 x 2 SUSPENDED ACOUSTICAL TILE CEILING
- LIGHT FIXTURES, SEE ELECTRICAL FOR MORE
- SUPPLY AND EXHAUST GRILLES, SEE MECHANICAL FOR MORE

**1 REFLECTED CEILING PLAN**  
1/4" = 1'-0"

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**CONSTRUCTION**

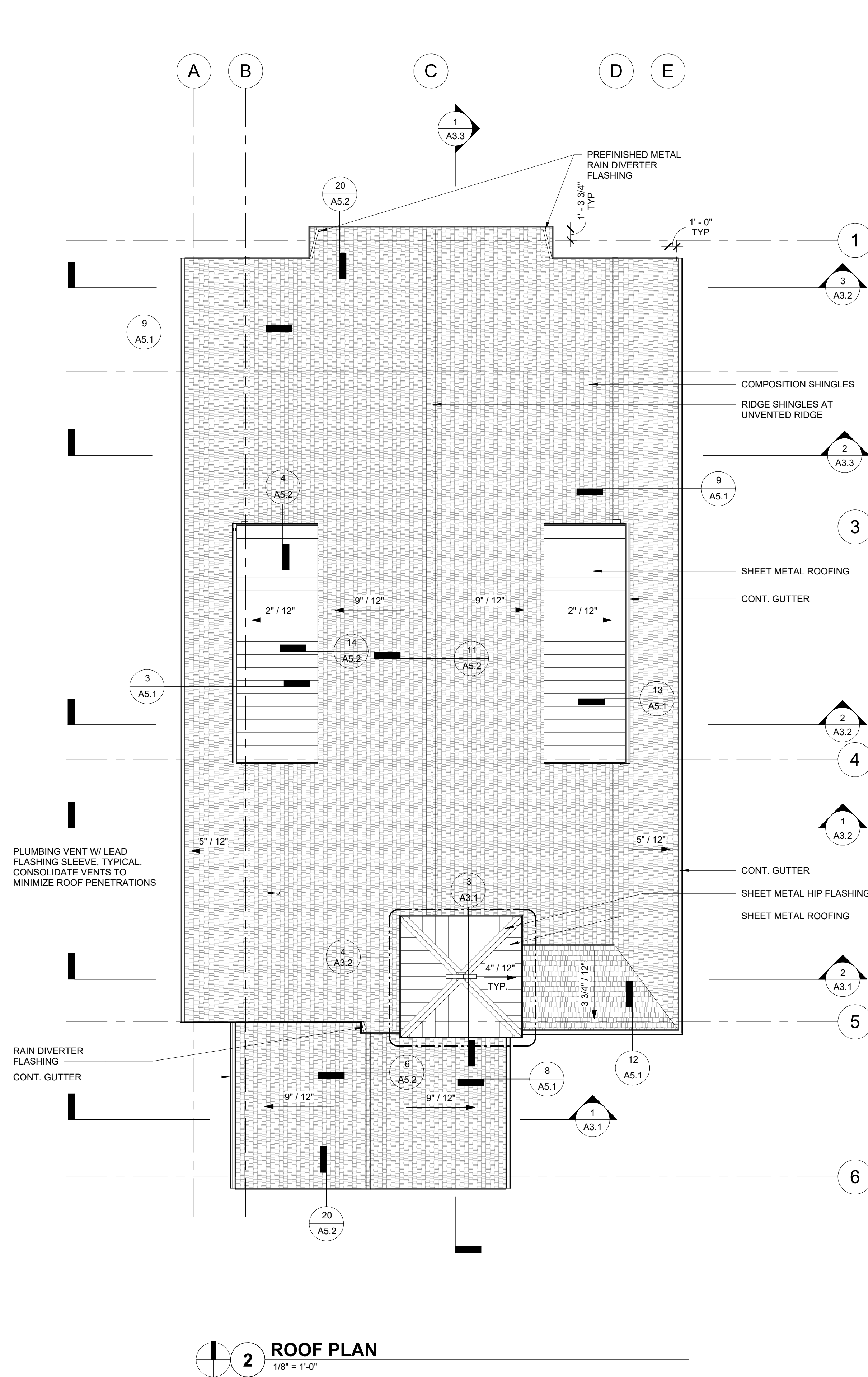
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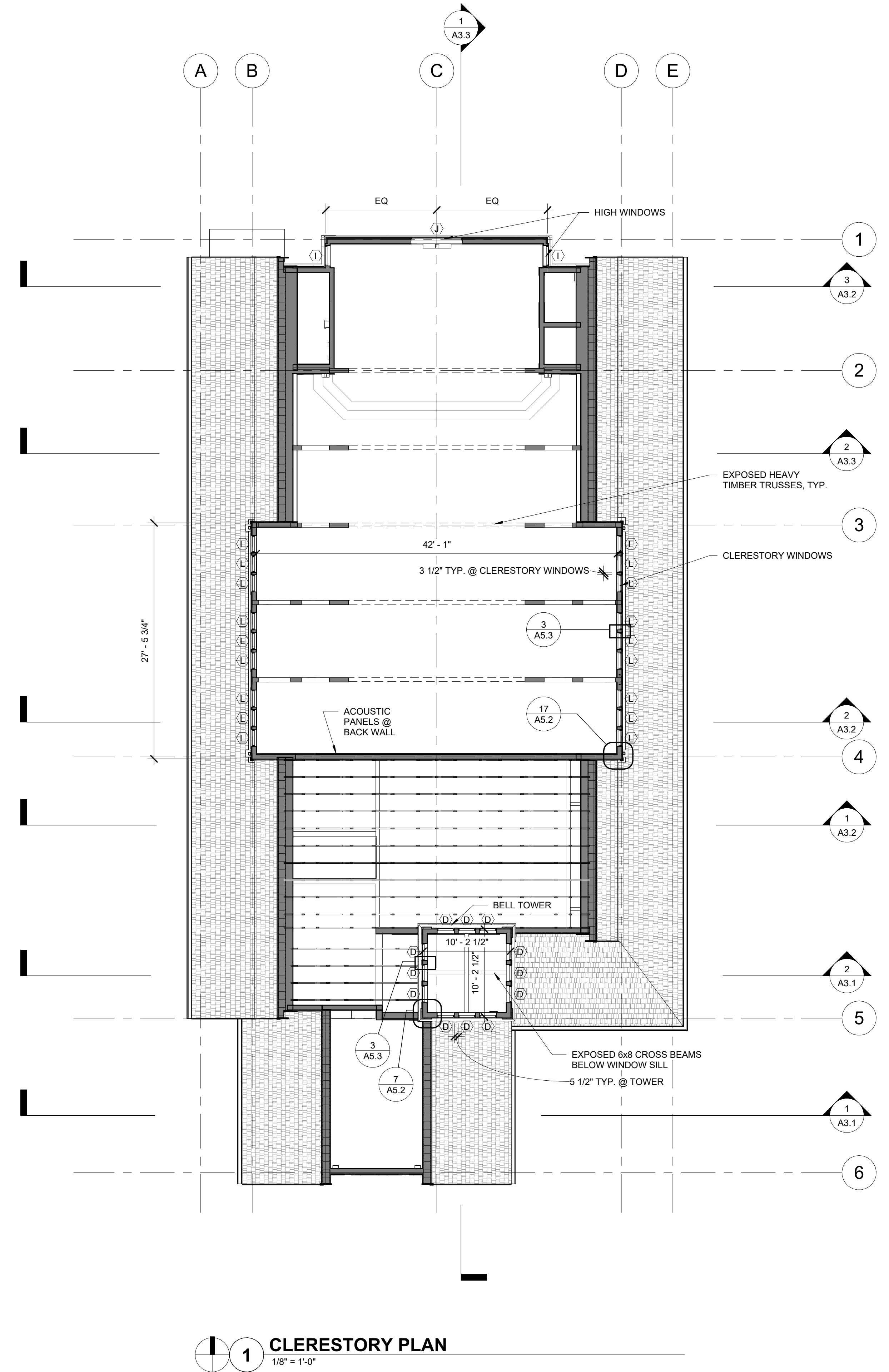
SHEET TITLE:  
**CLERESTORY PLAN  
& ROOF PLAN**

**A2.3**

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HGE ARCHITECTS, INC.



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

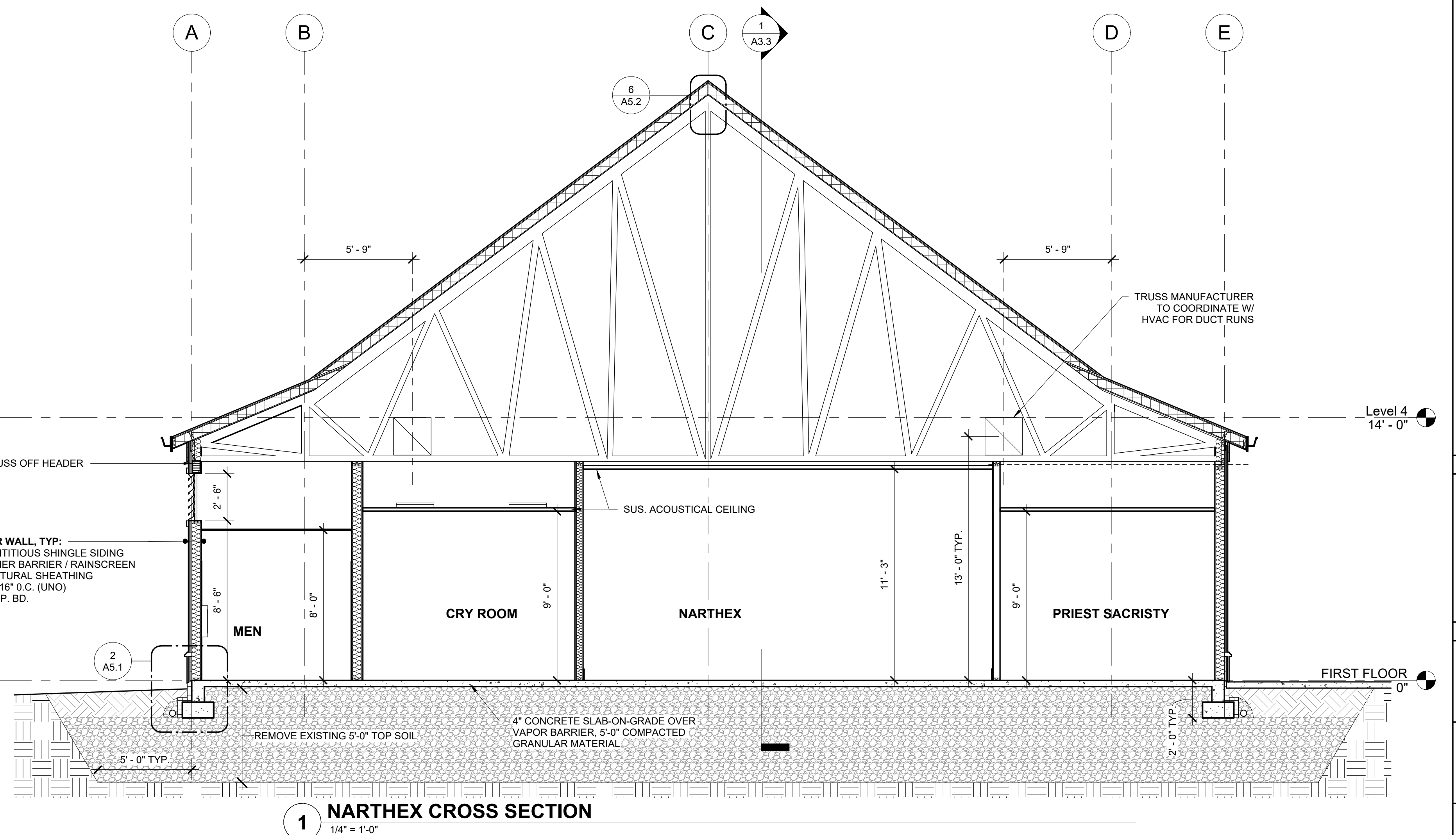
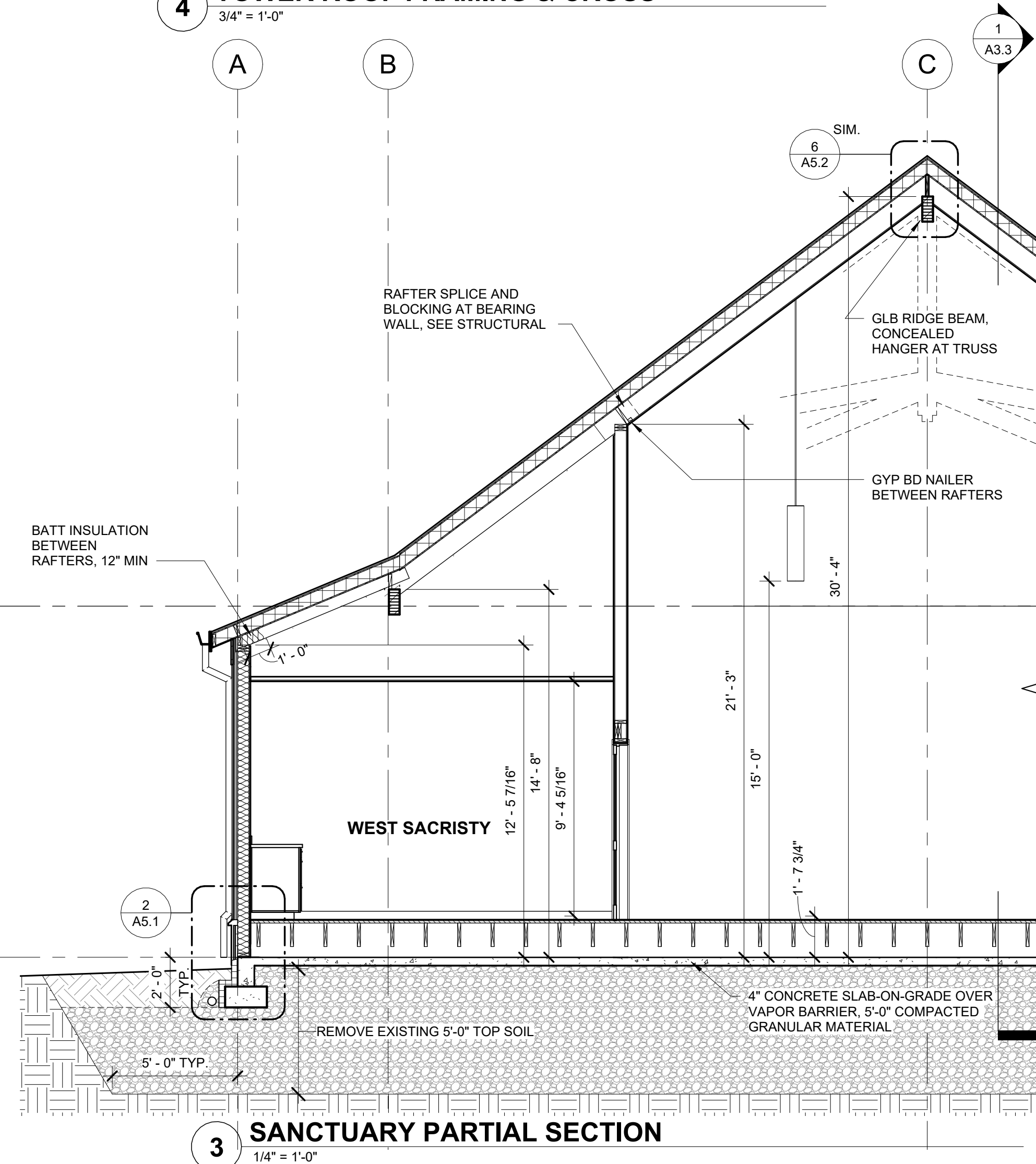
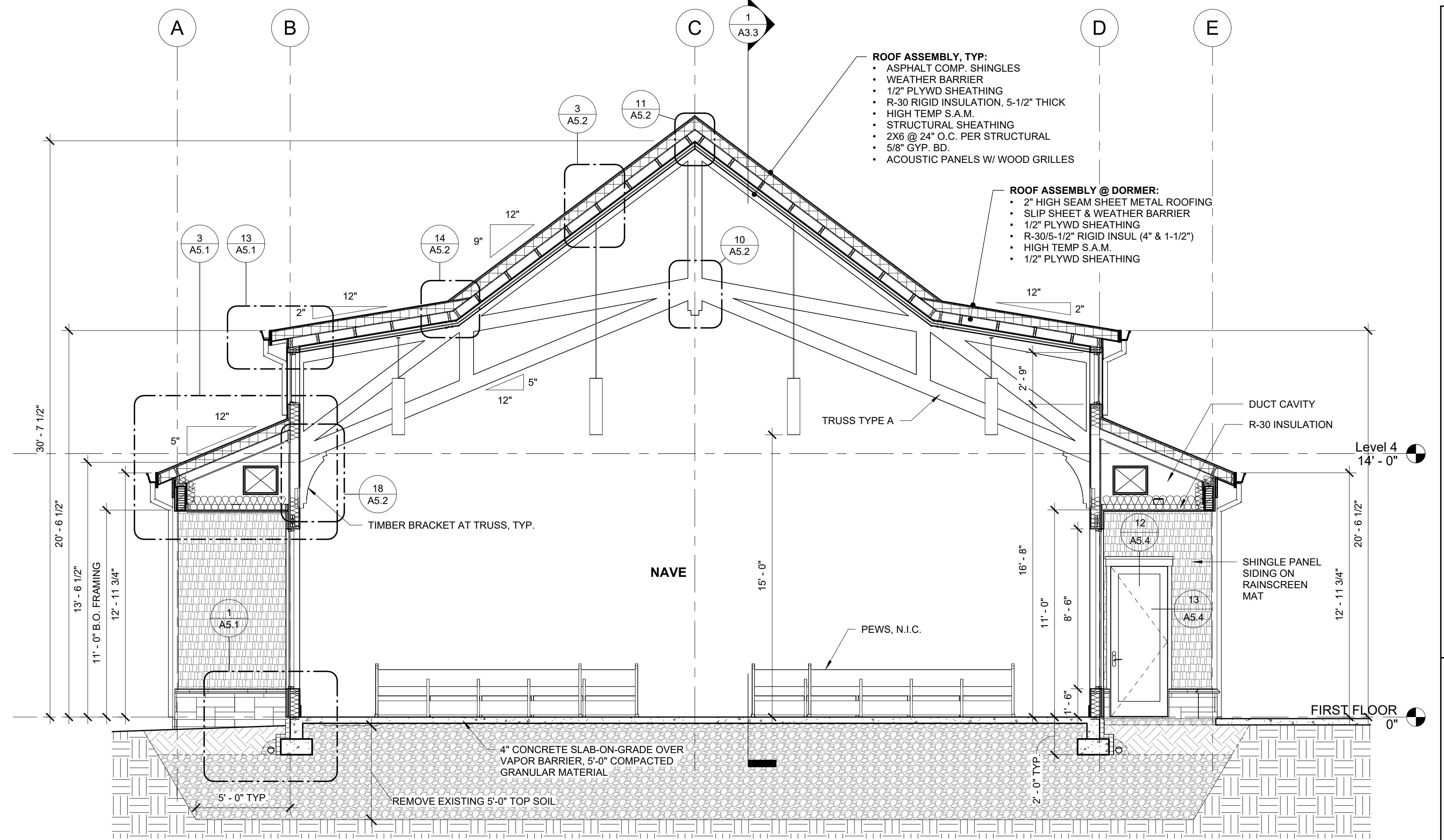
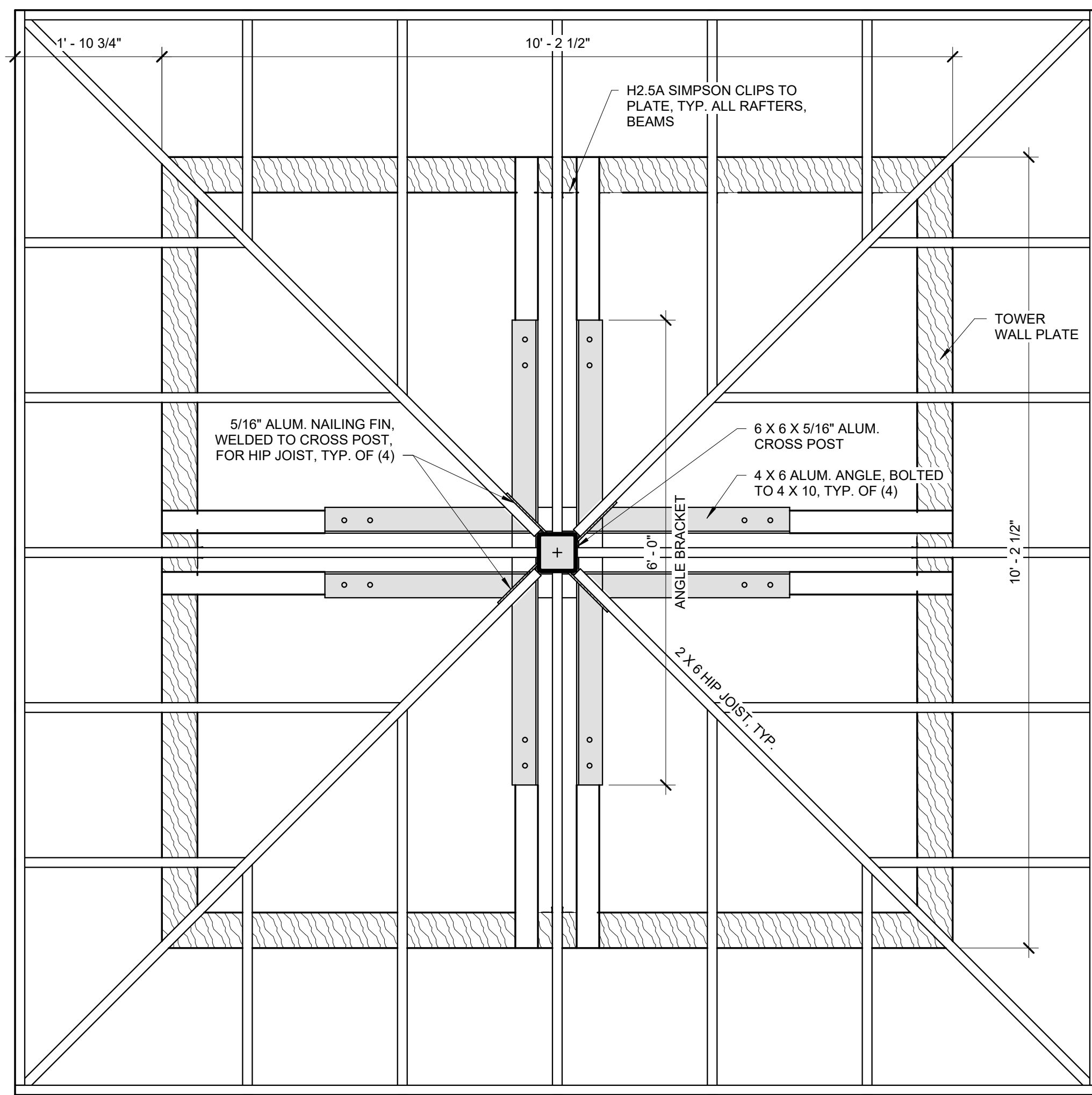


**1 CLERESTORY PLAN**  
1/8" = 1'-0"











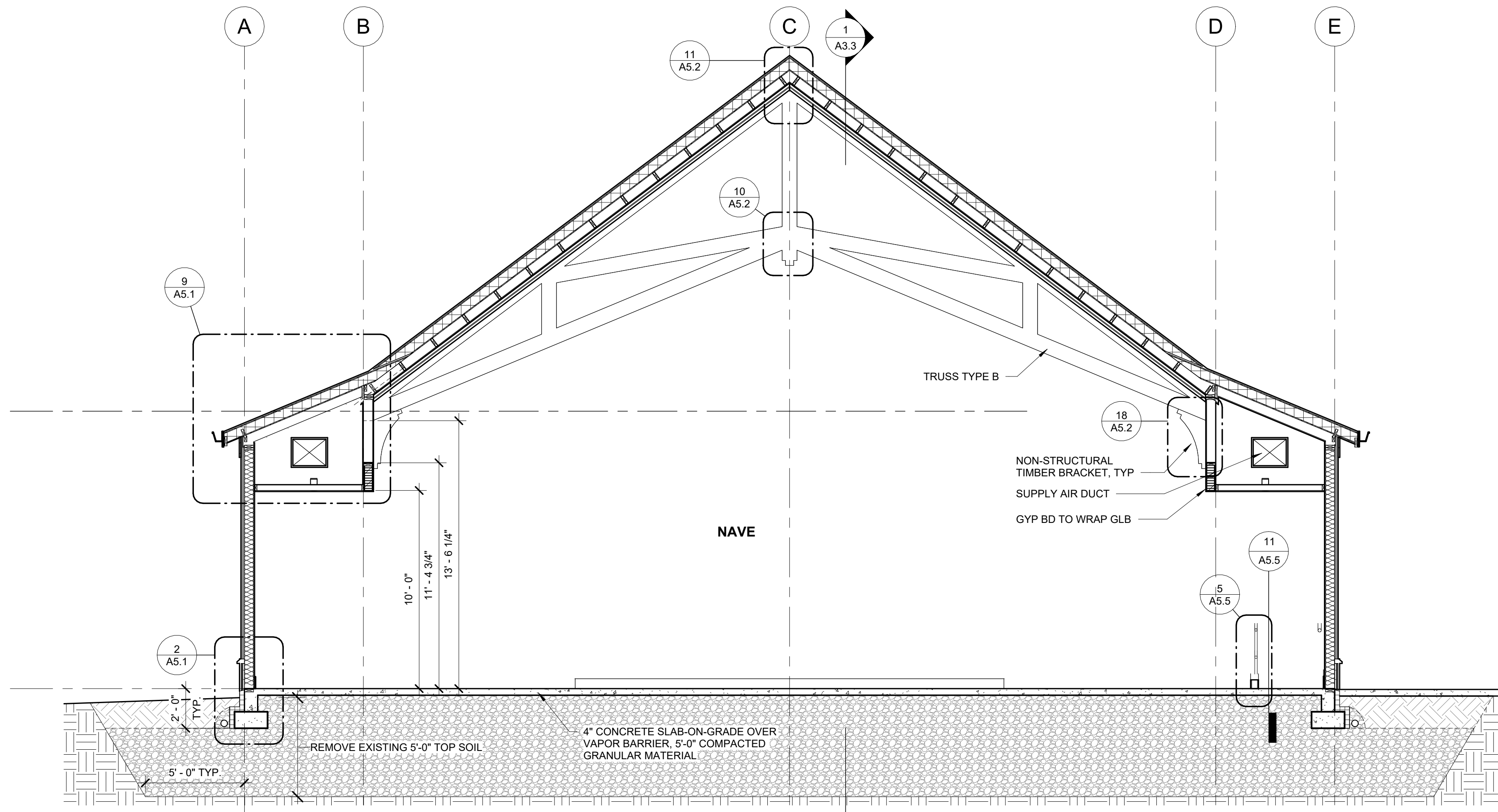
**CONSTRUCTION**

REVISIONS:  
# DATE DESCRIPTION

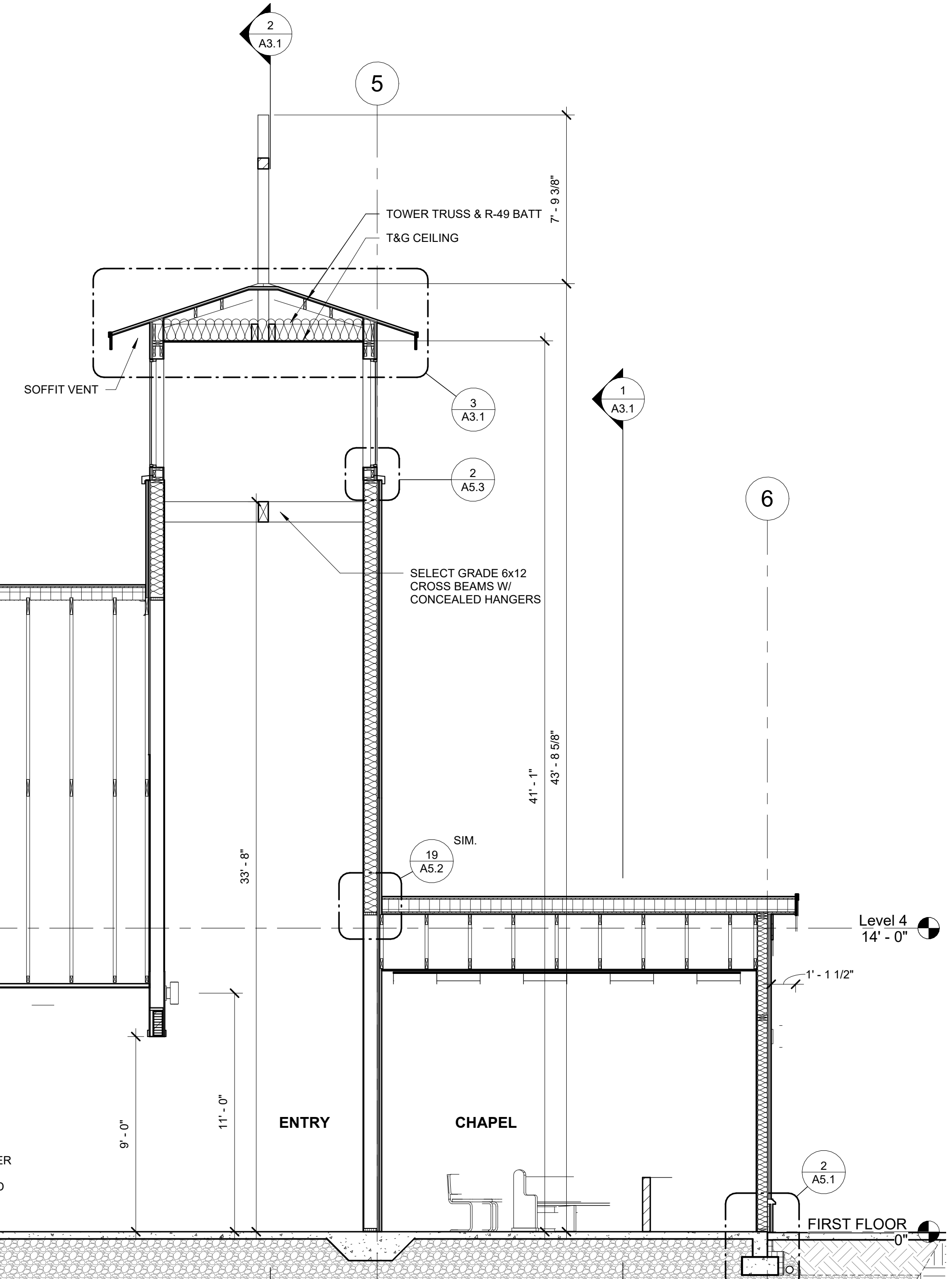
DATE: JULY 2024

SHEET TITLE:  
**BUILDING SECTIONS**

**A3.3**



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

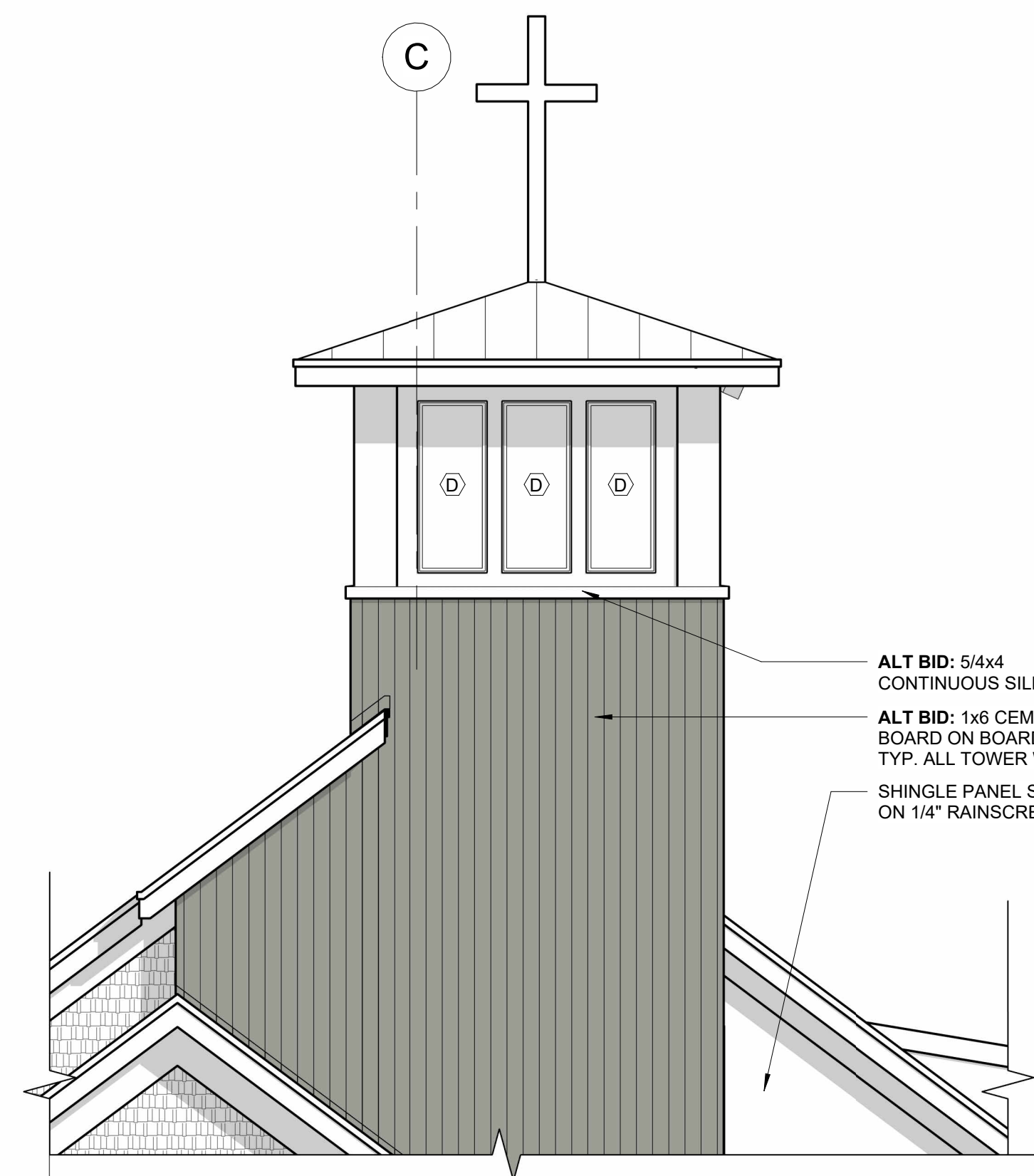


**1 N-S SECTION**  
1/4" = 1'-0"

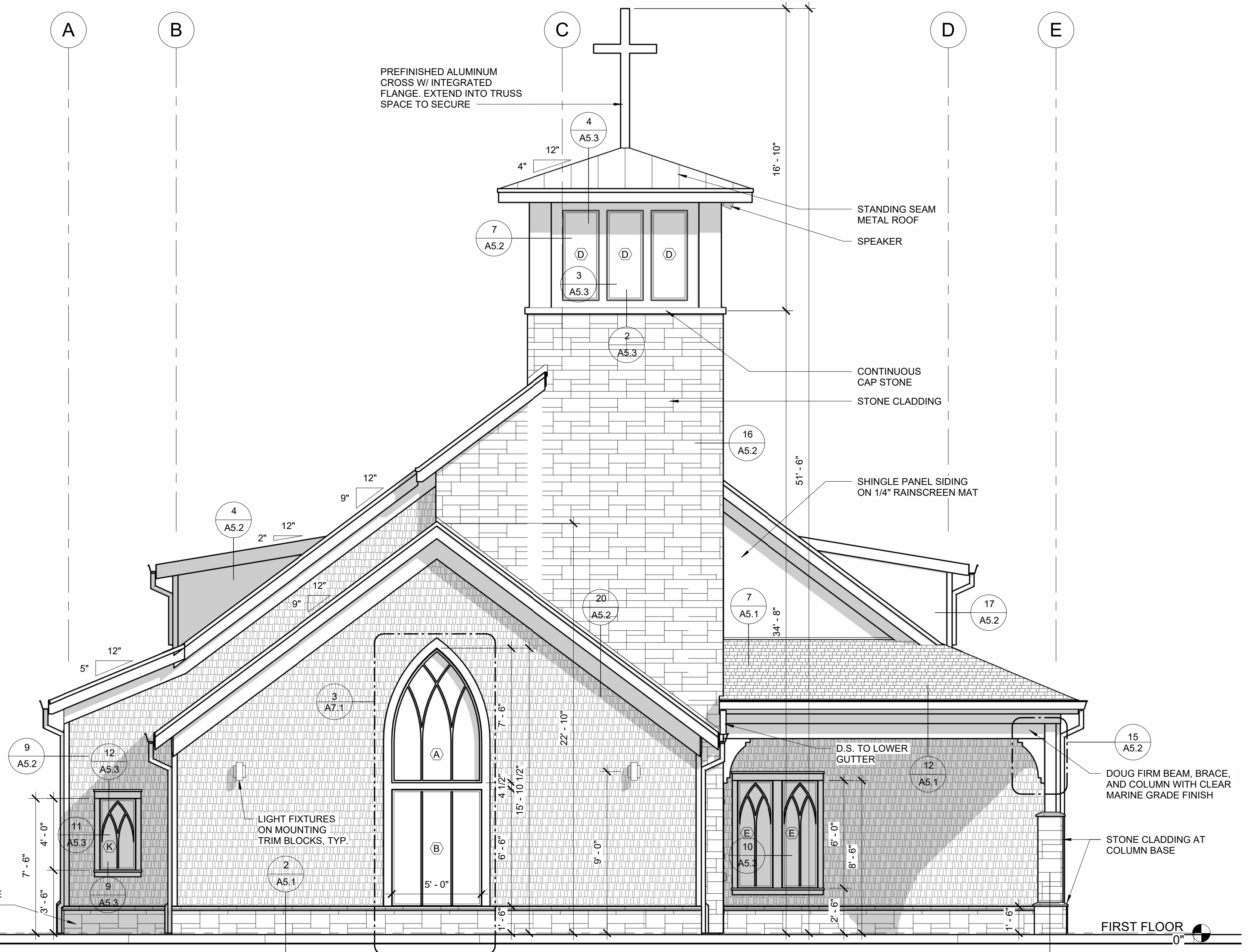
- ROOF ASSEMBLY:**
- ASPHALT SHINGLES
  - WEATHER BARRIER
  - 1/2" PLYWD SHEATHING
  - R-30 / 5-1/2" RIGID INSULATION
  - HIGH TEMP S.A.M.
  - 5/8" GYP. BD.
  - 2x6 ROOF FRAMING

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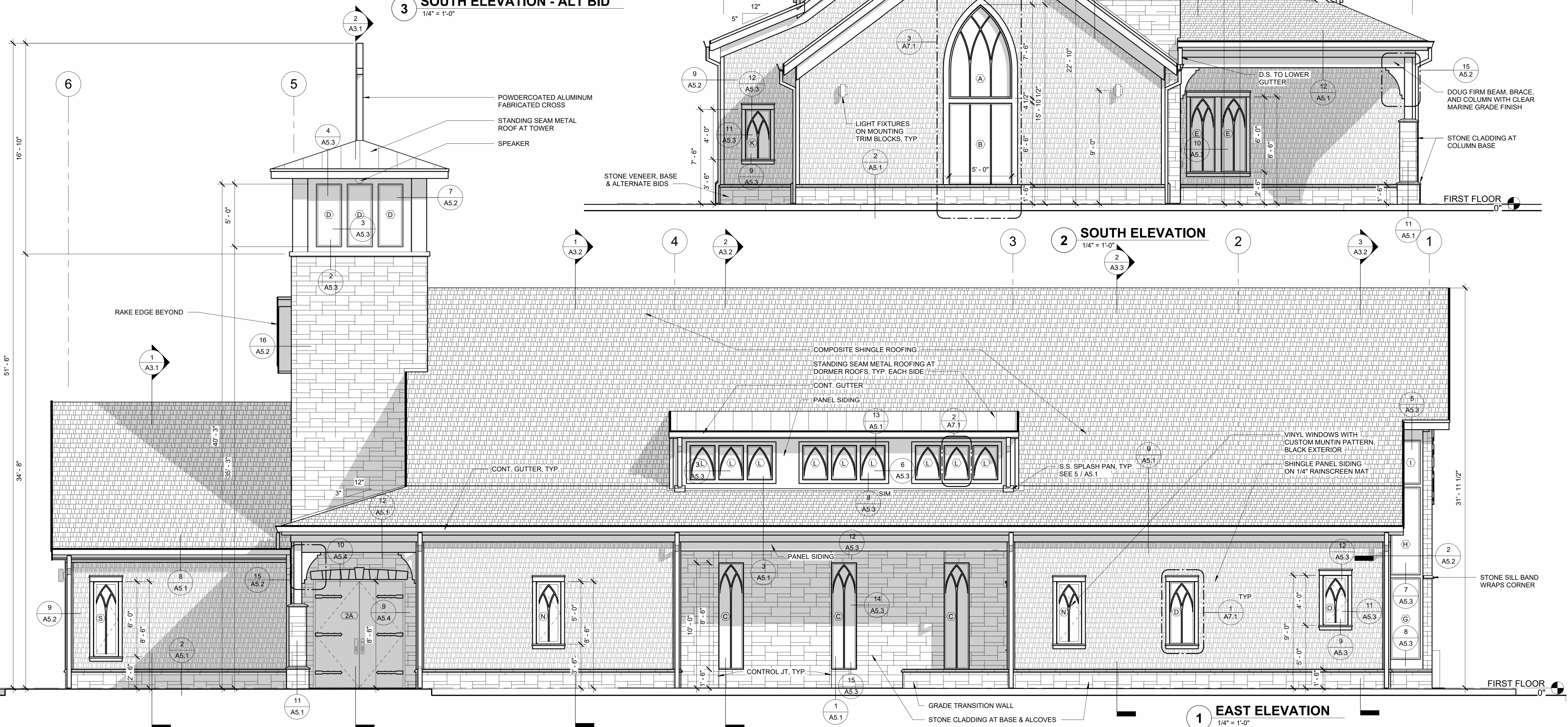




**3 SOUTH ELEVATION - ALT BID**  
1/4" = 1'-0"



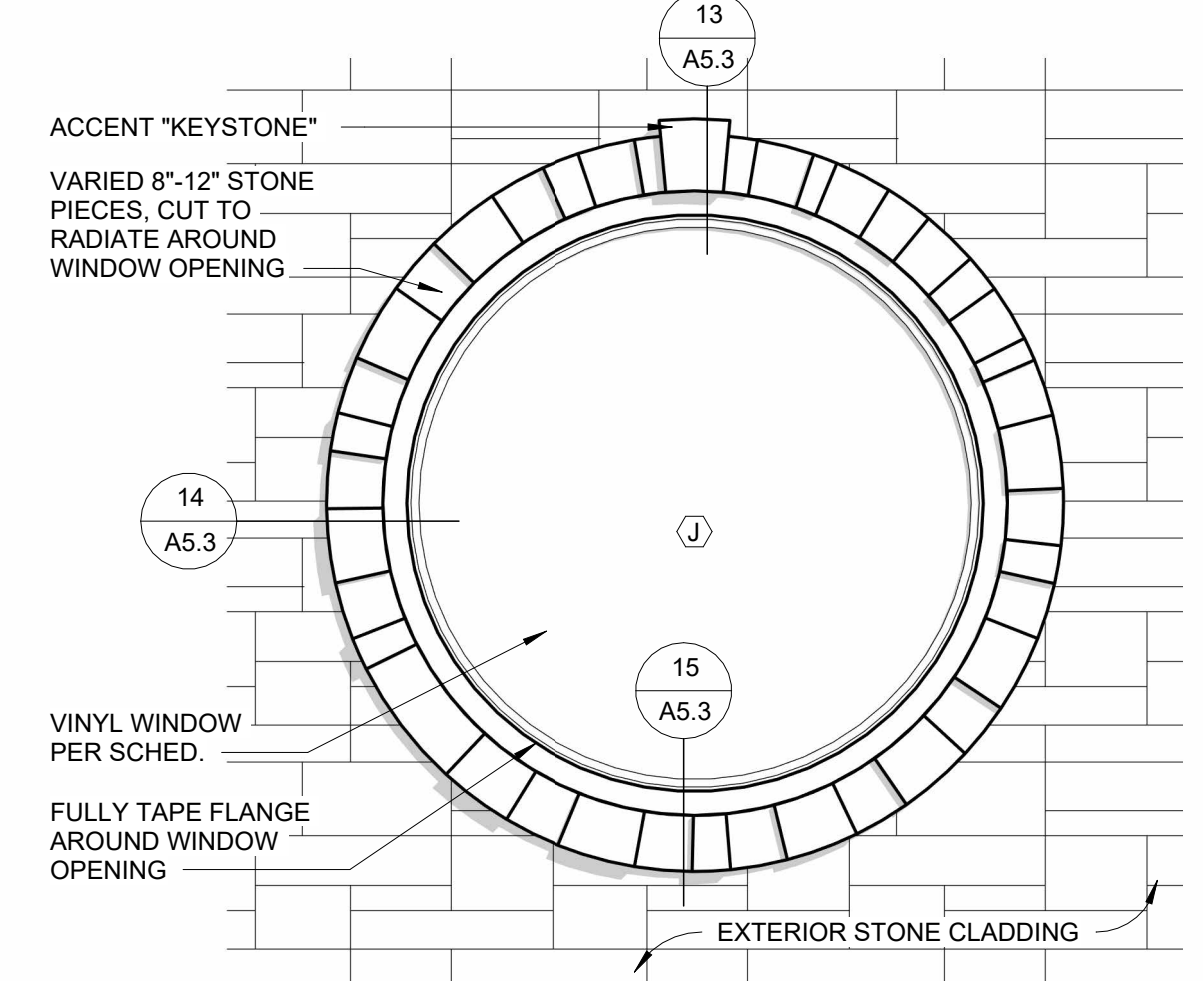
**SOUTH ELEVATION**  
1/4" = 1'-0"



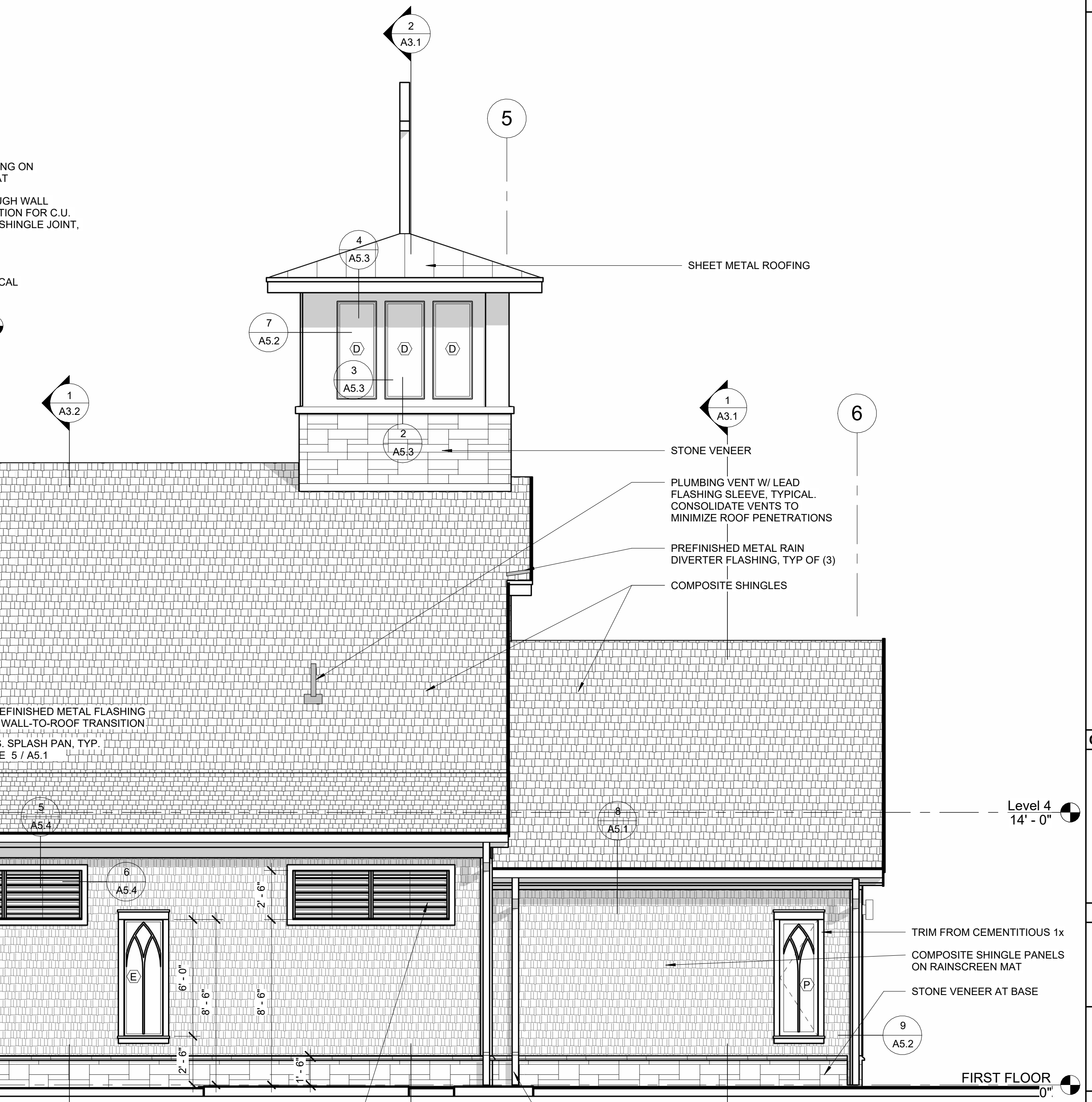
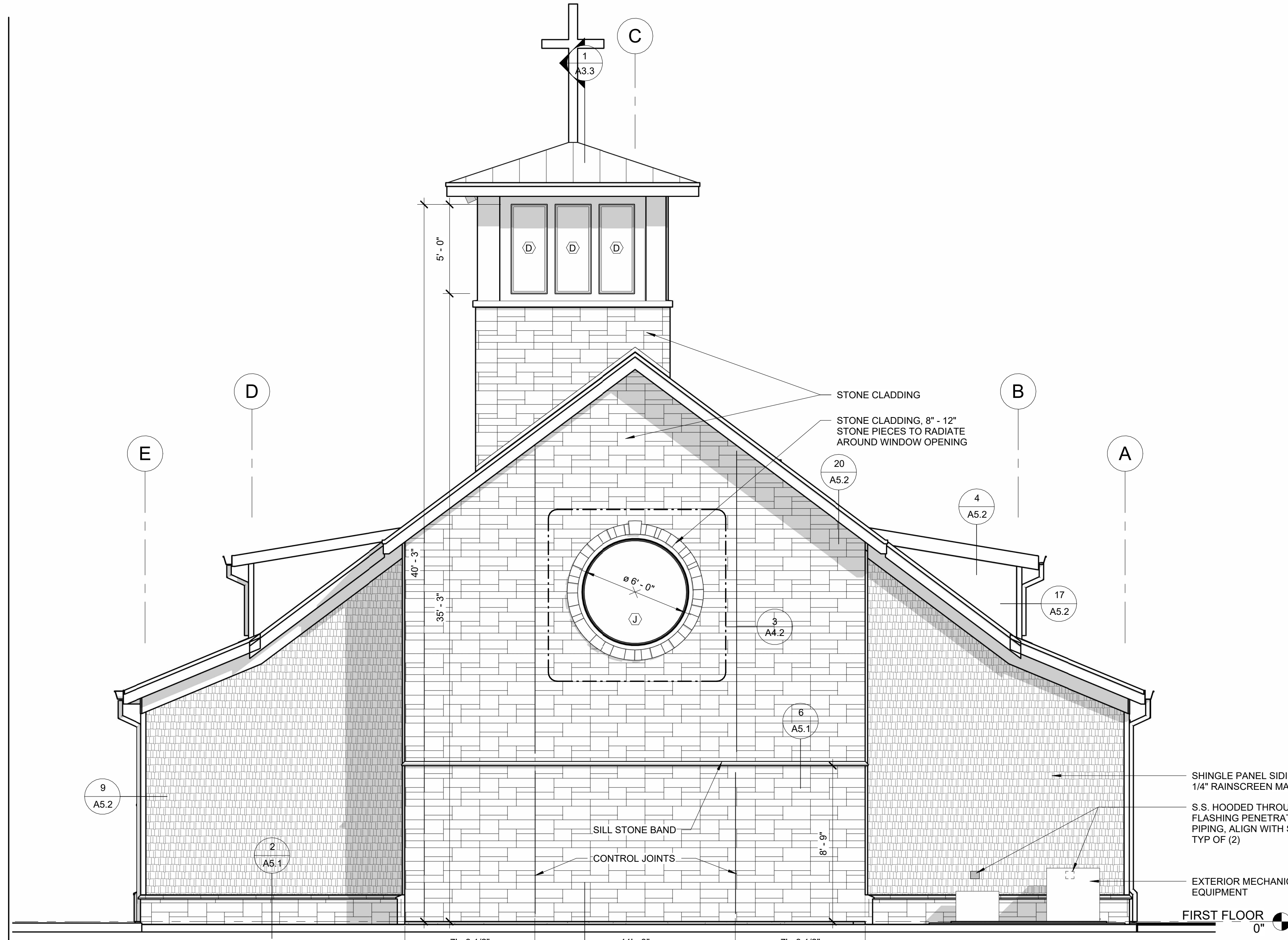
**1 EAST ELEVATION**  
1/4" = 1'-0"

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**3 ROSETTE WINDOW EXTERIOR**  
1/2" = 1'-0"



PROJECT NO.: 2375  
**HOLY TRINITY CATHOLIC CHURCH**  
335 OREGON AVE. SE  
BANDON, OREGON 97411

**CONSTRUCTION**

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DATE: JULY 2024

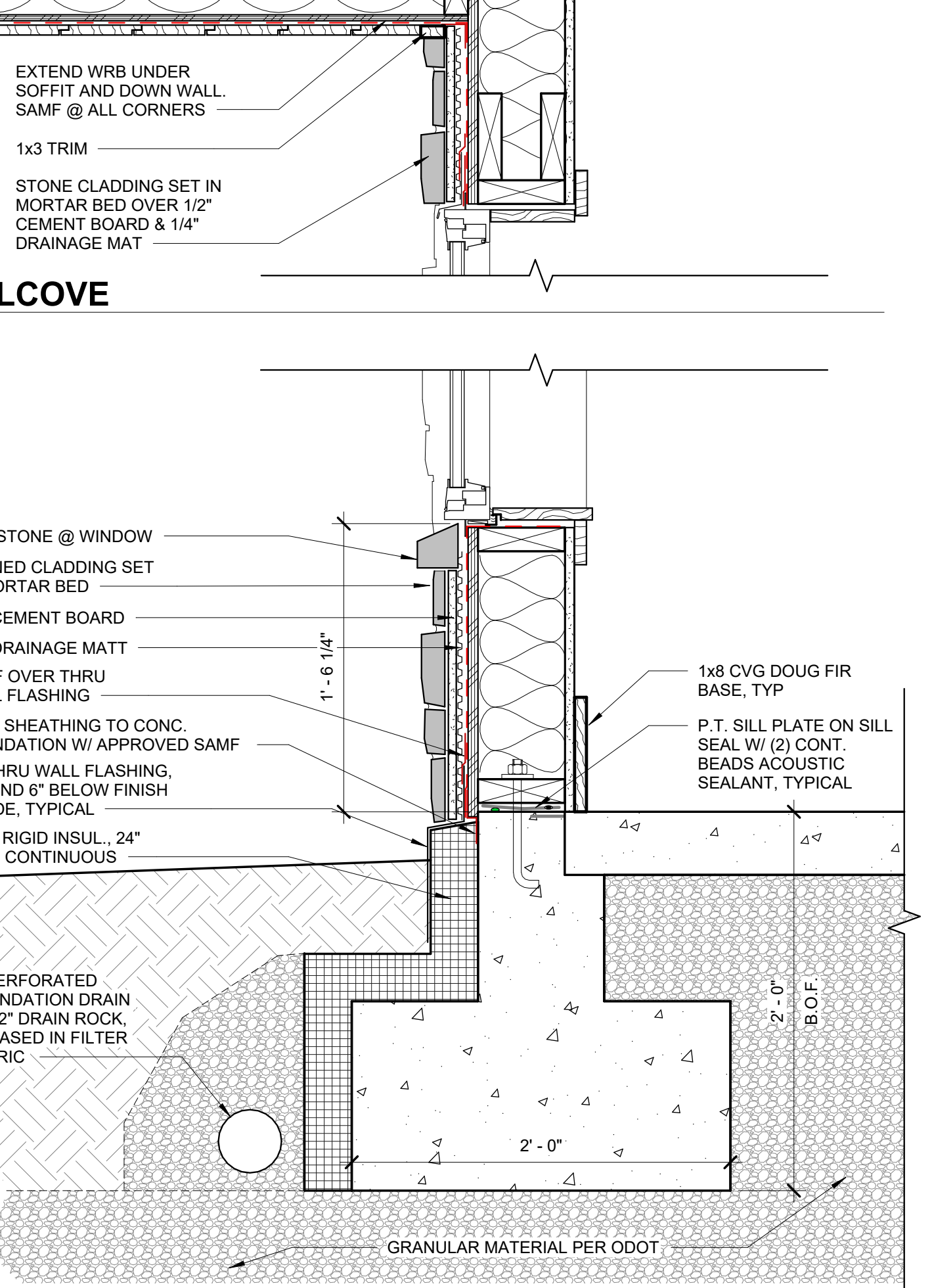
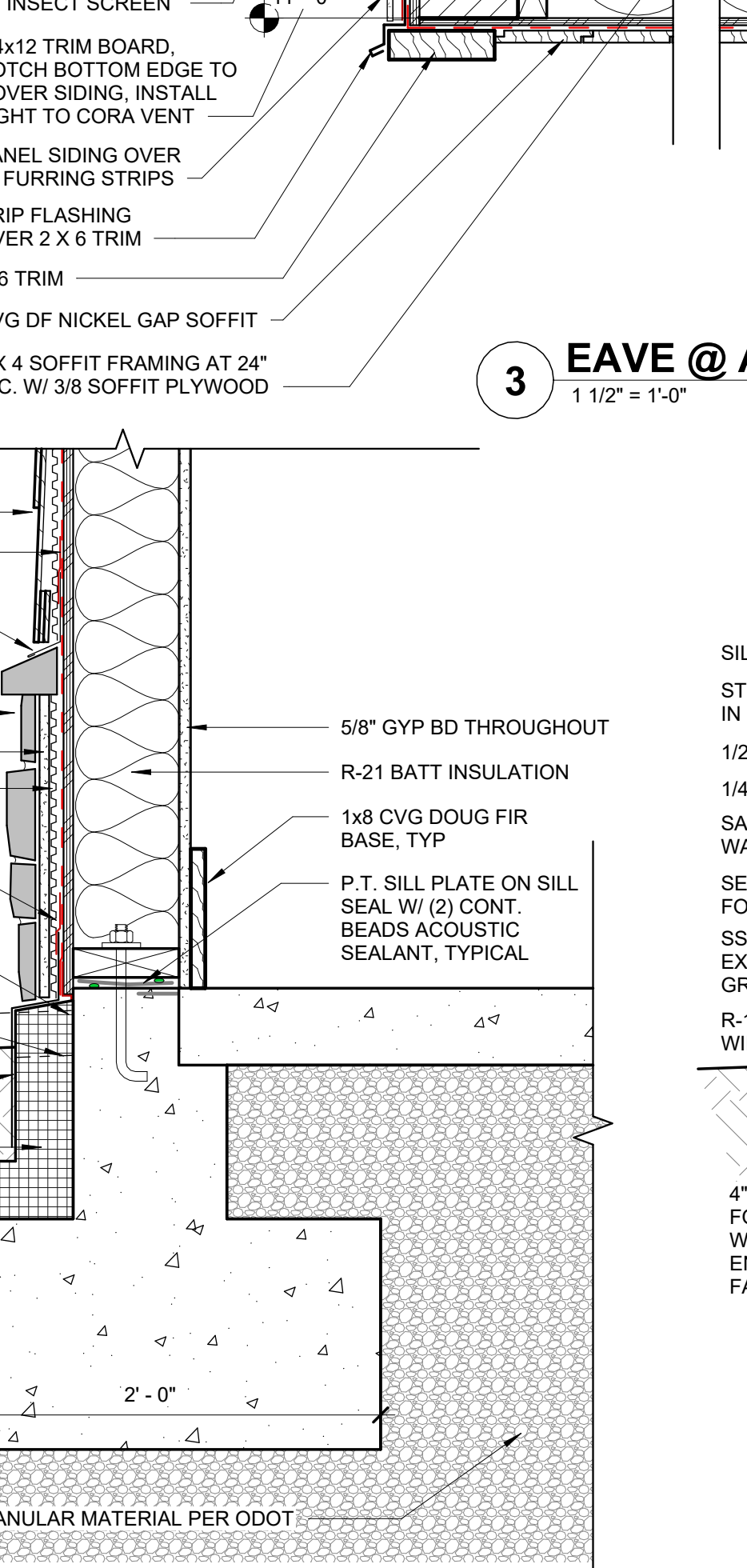
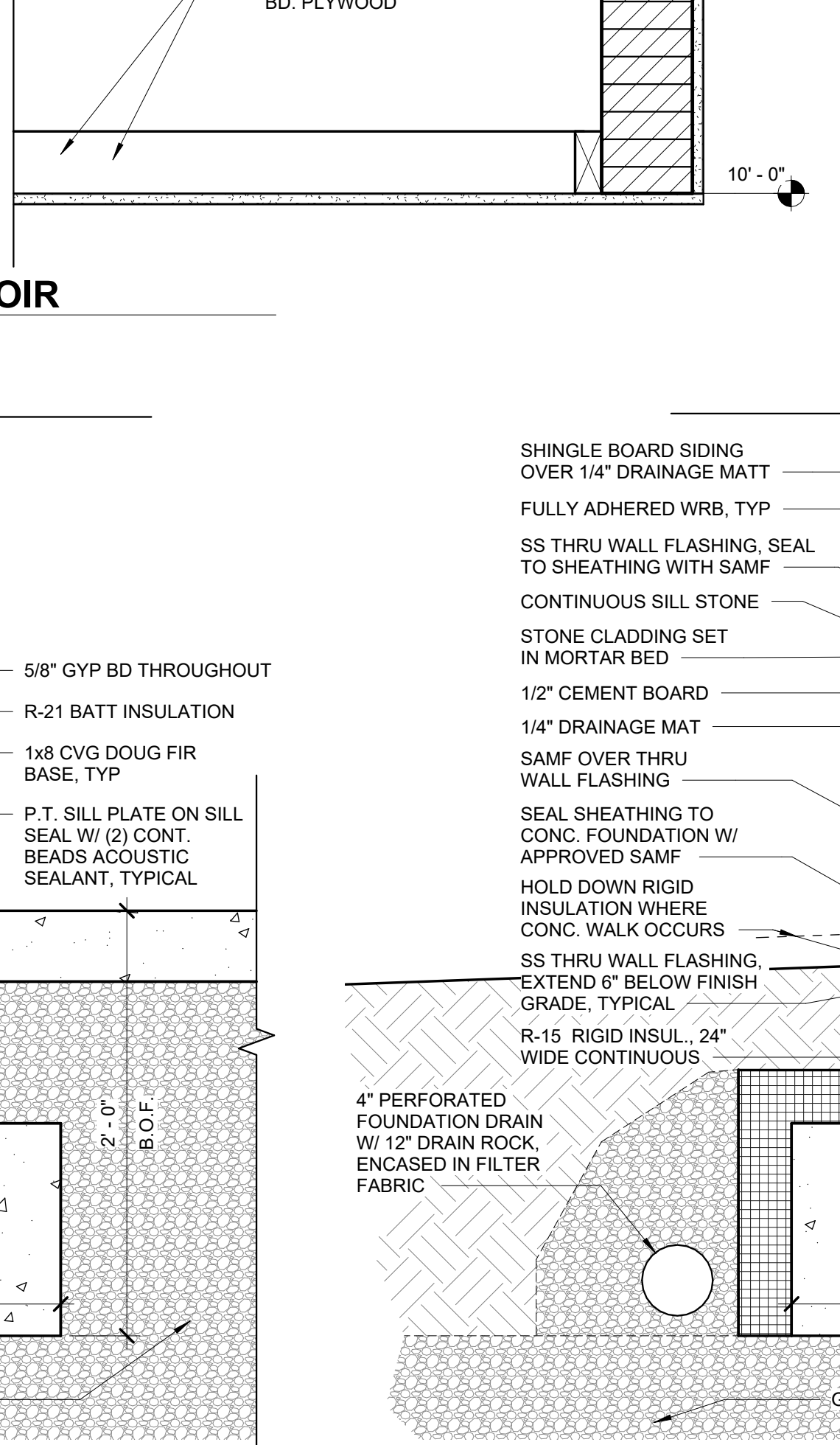
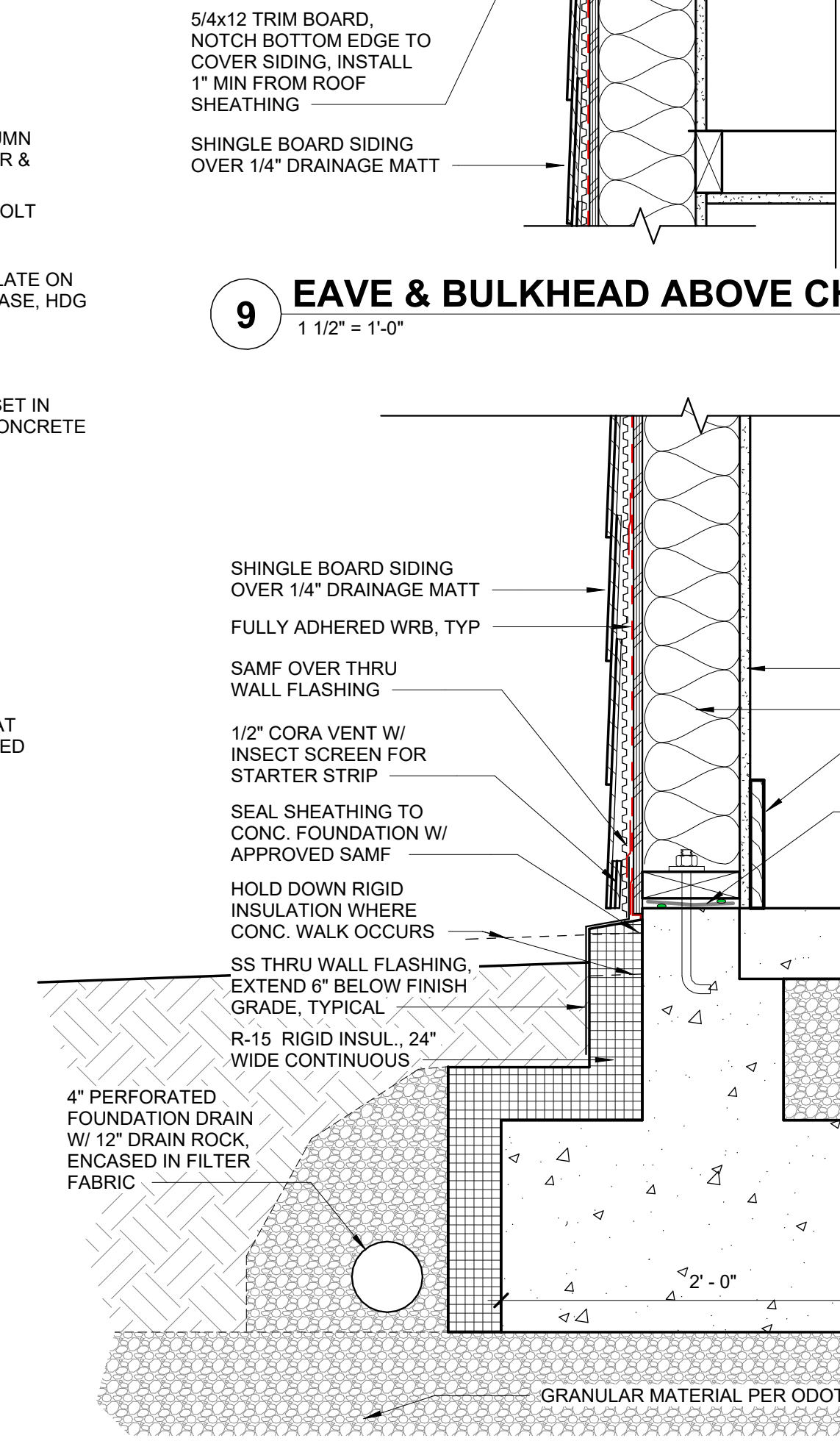
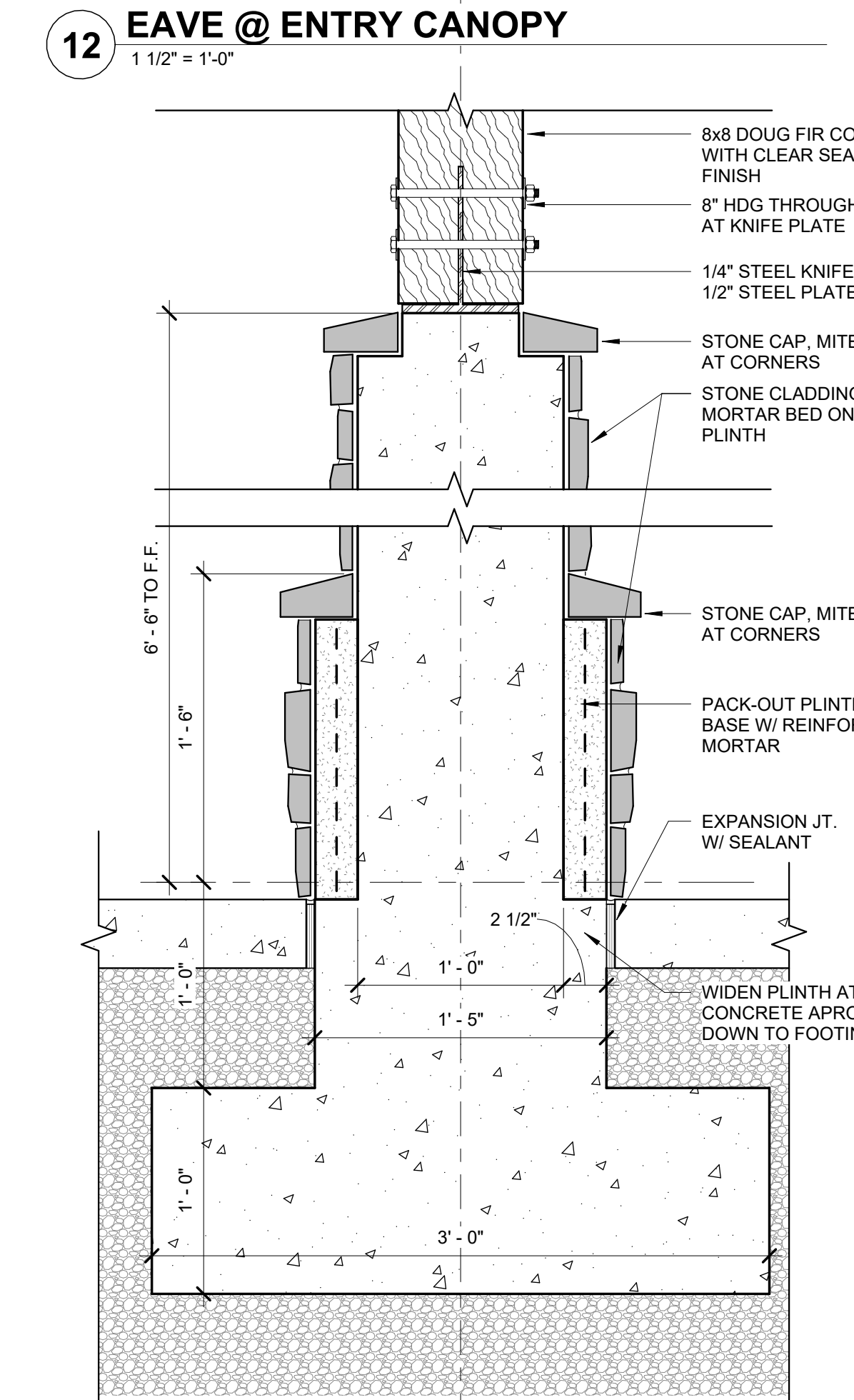
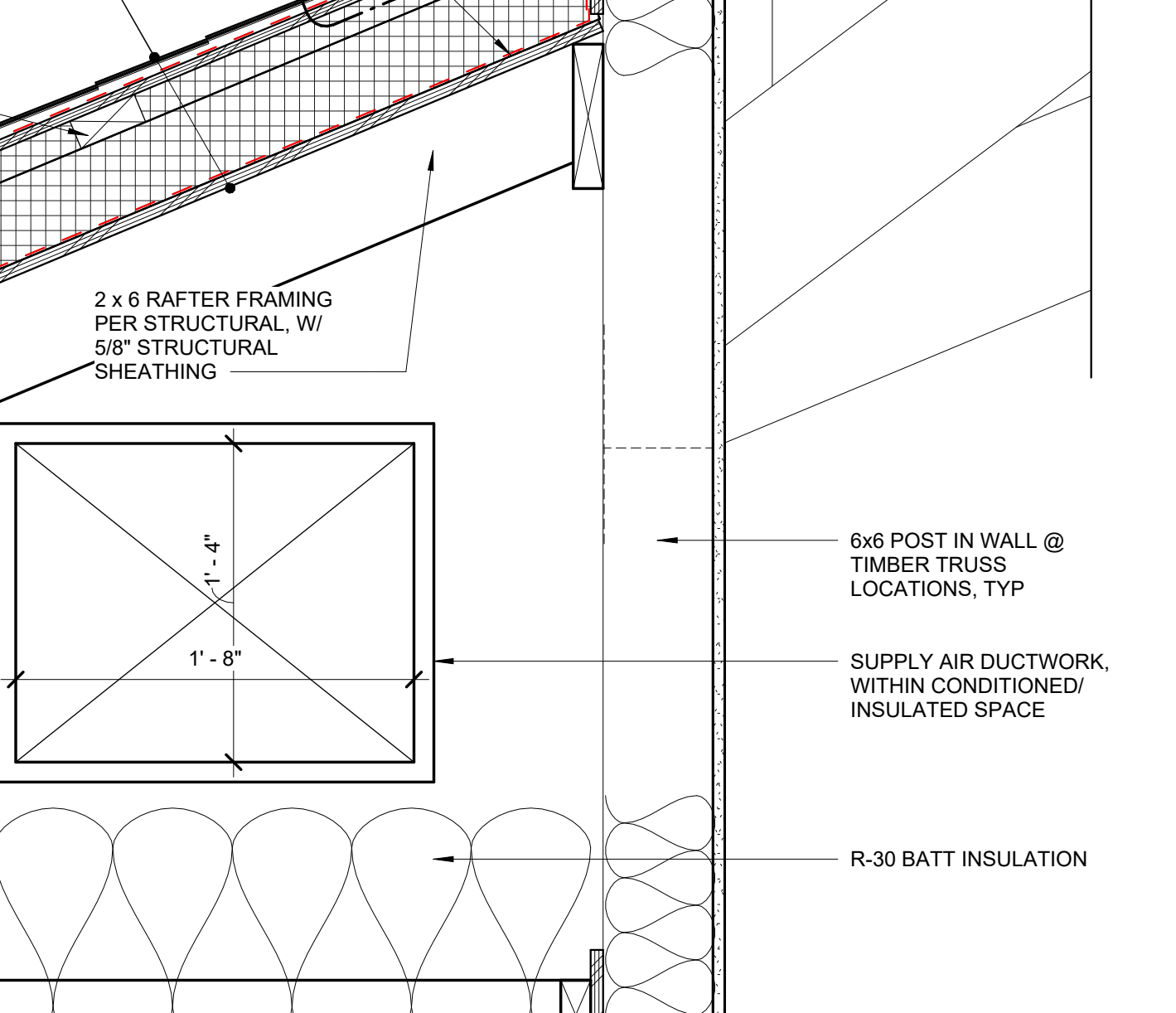
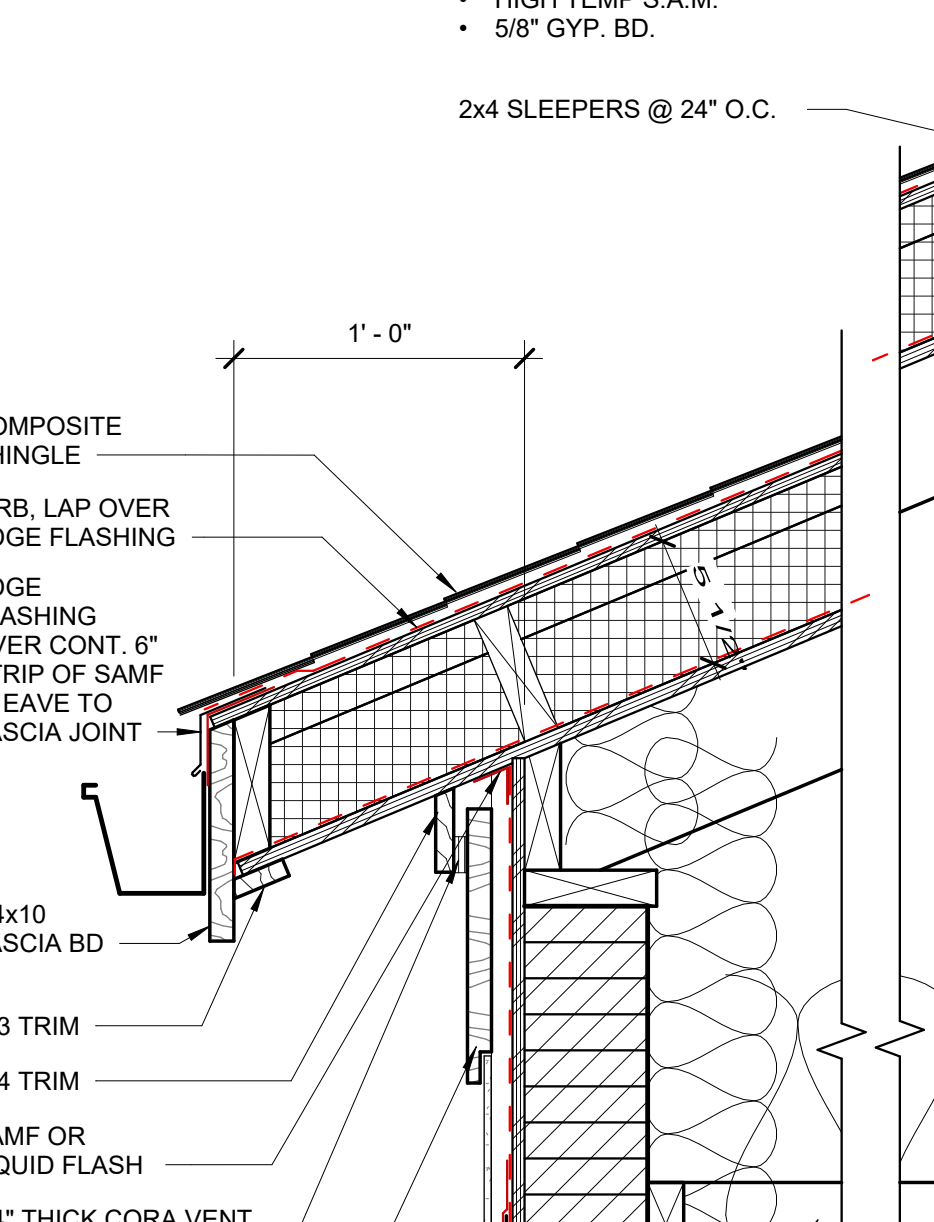
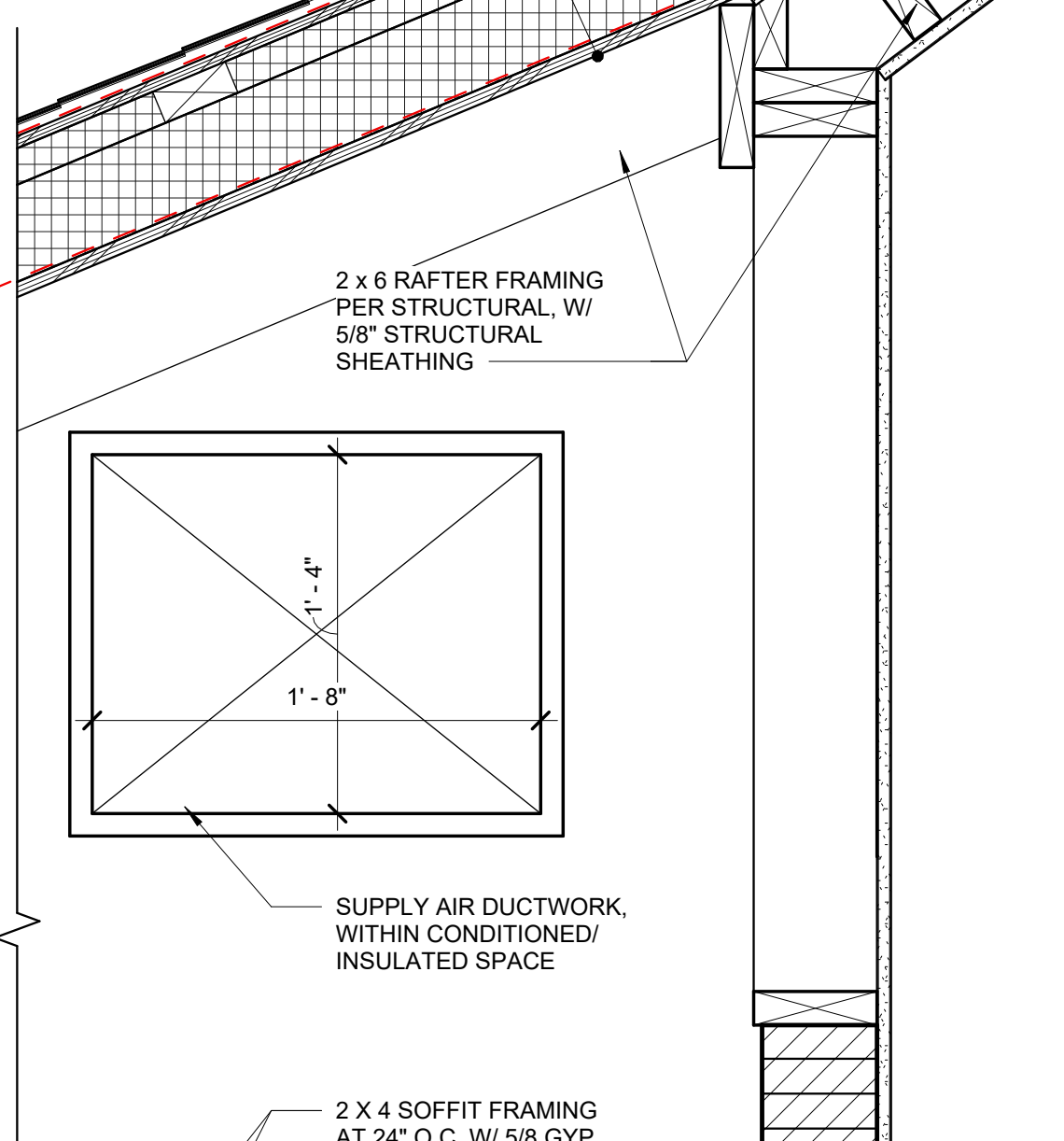
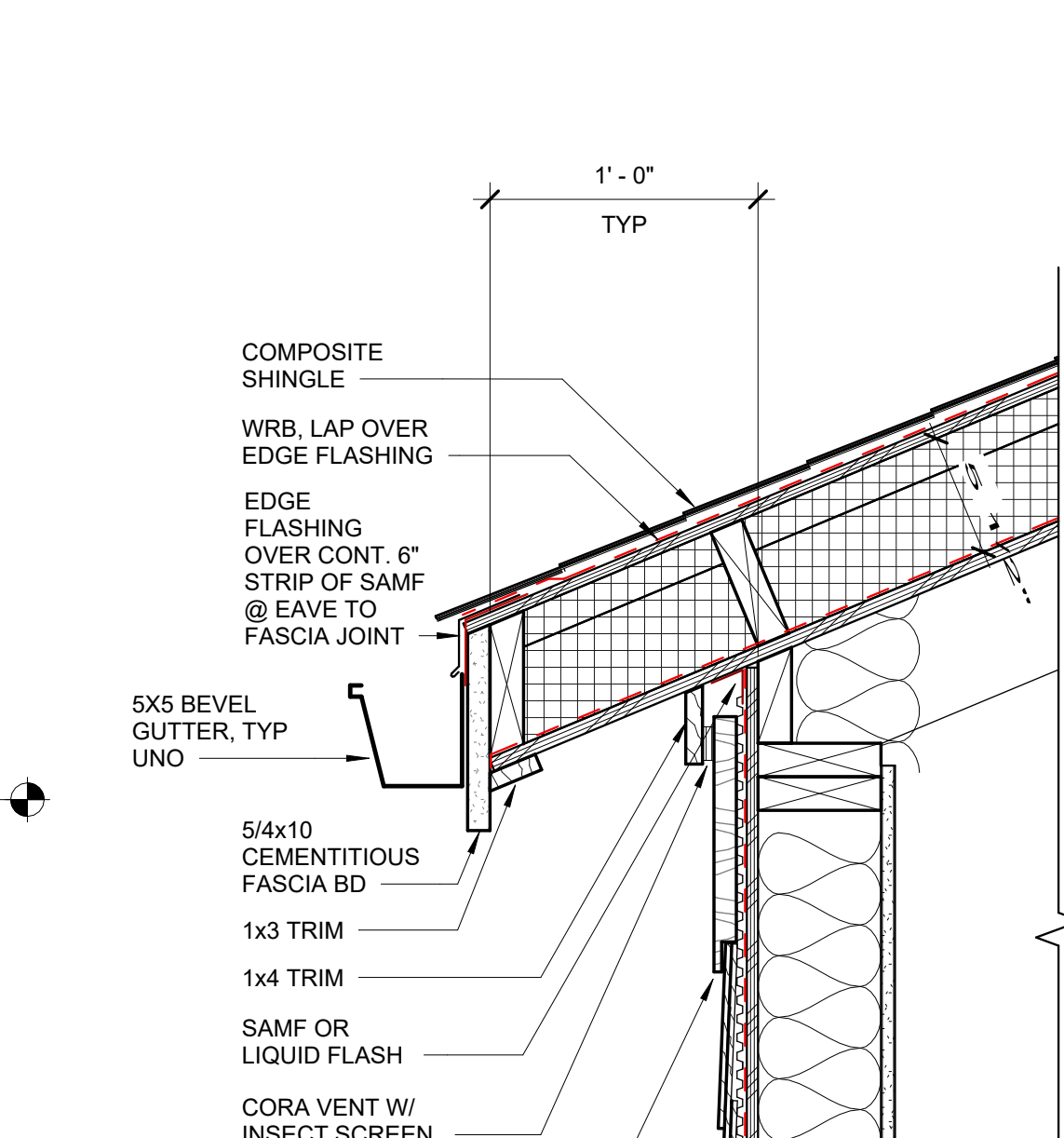
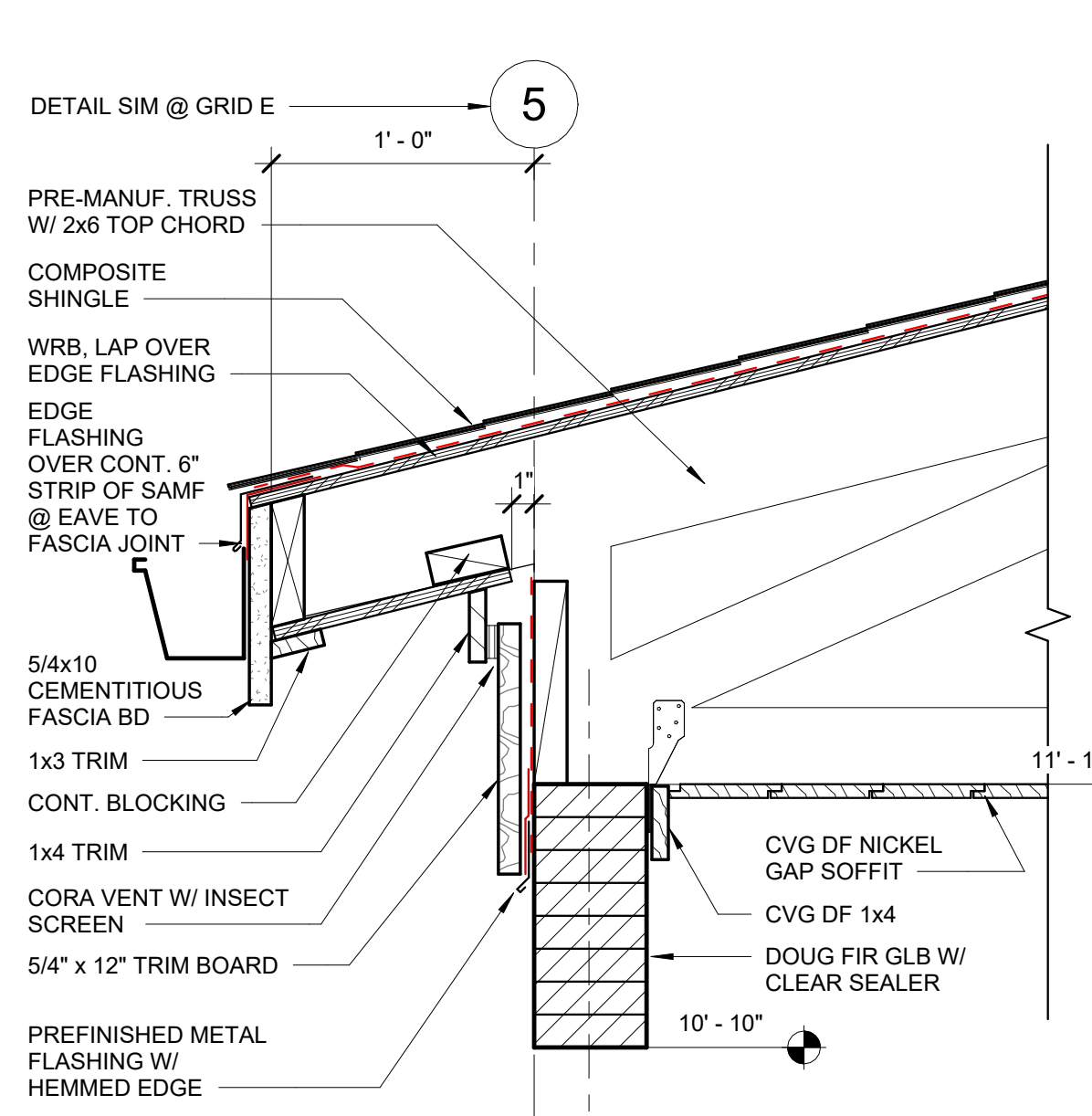
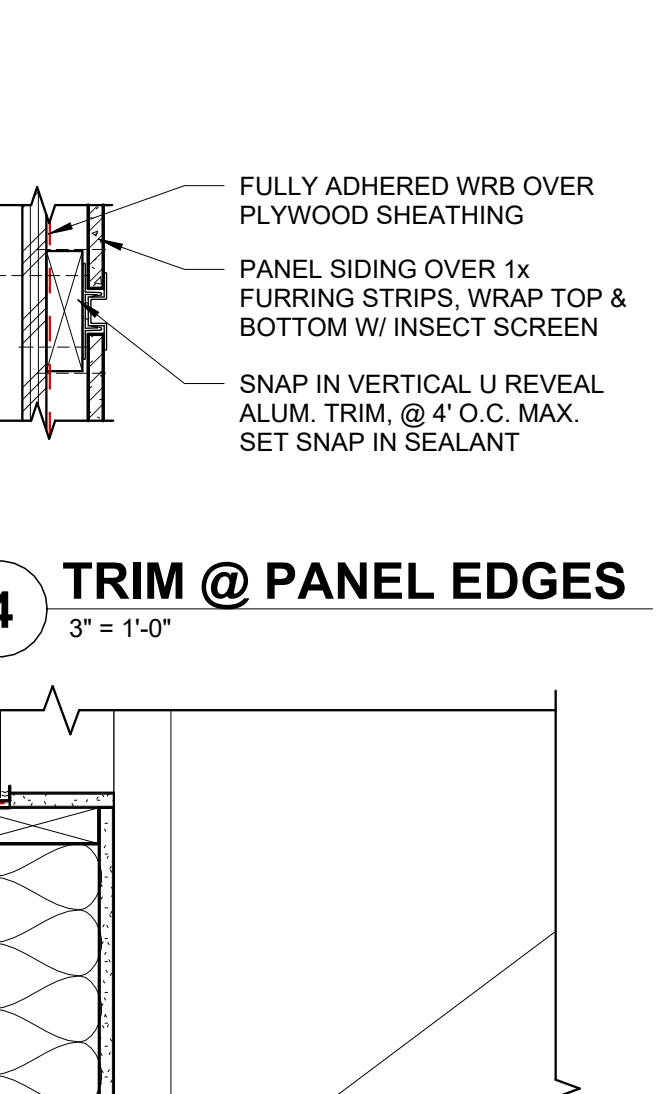
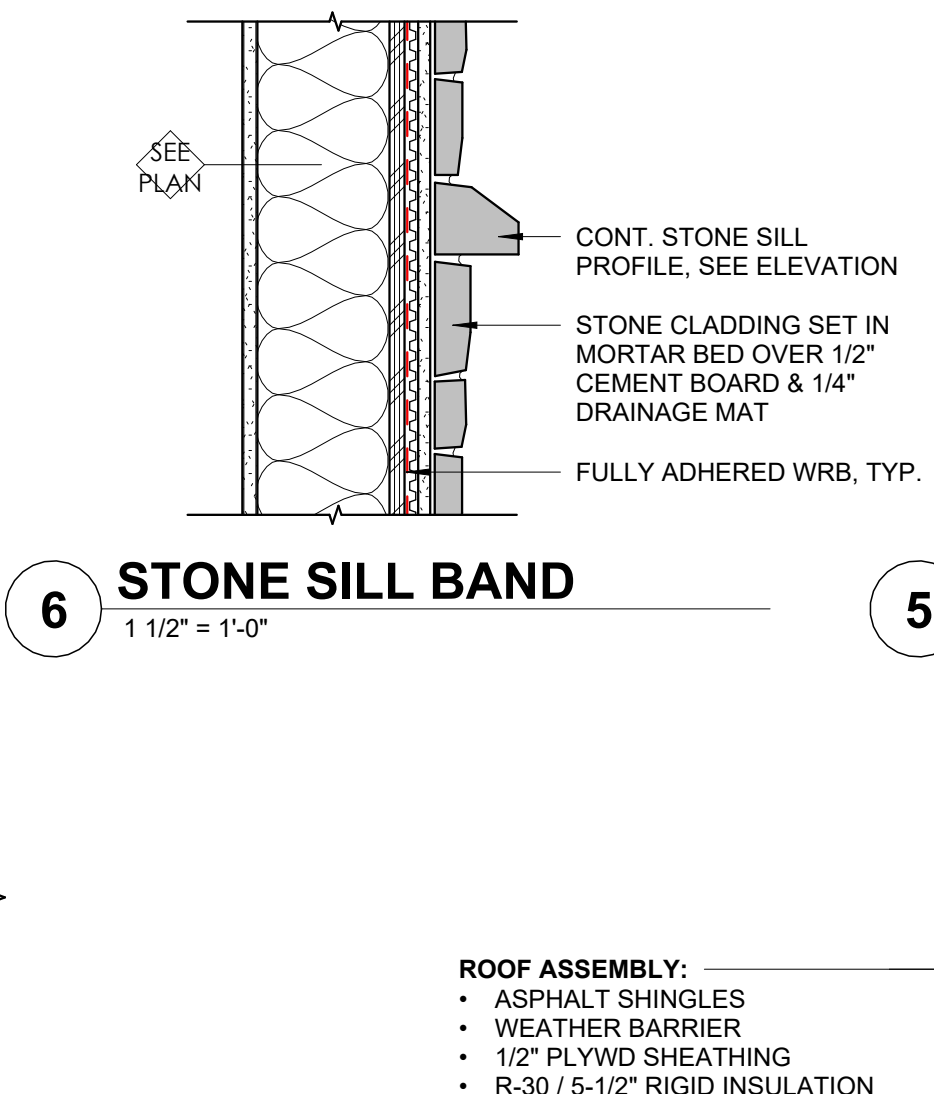
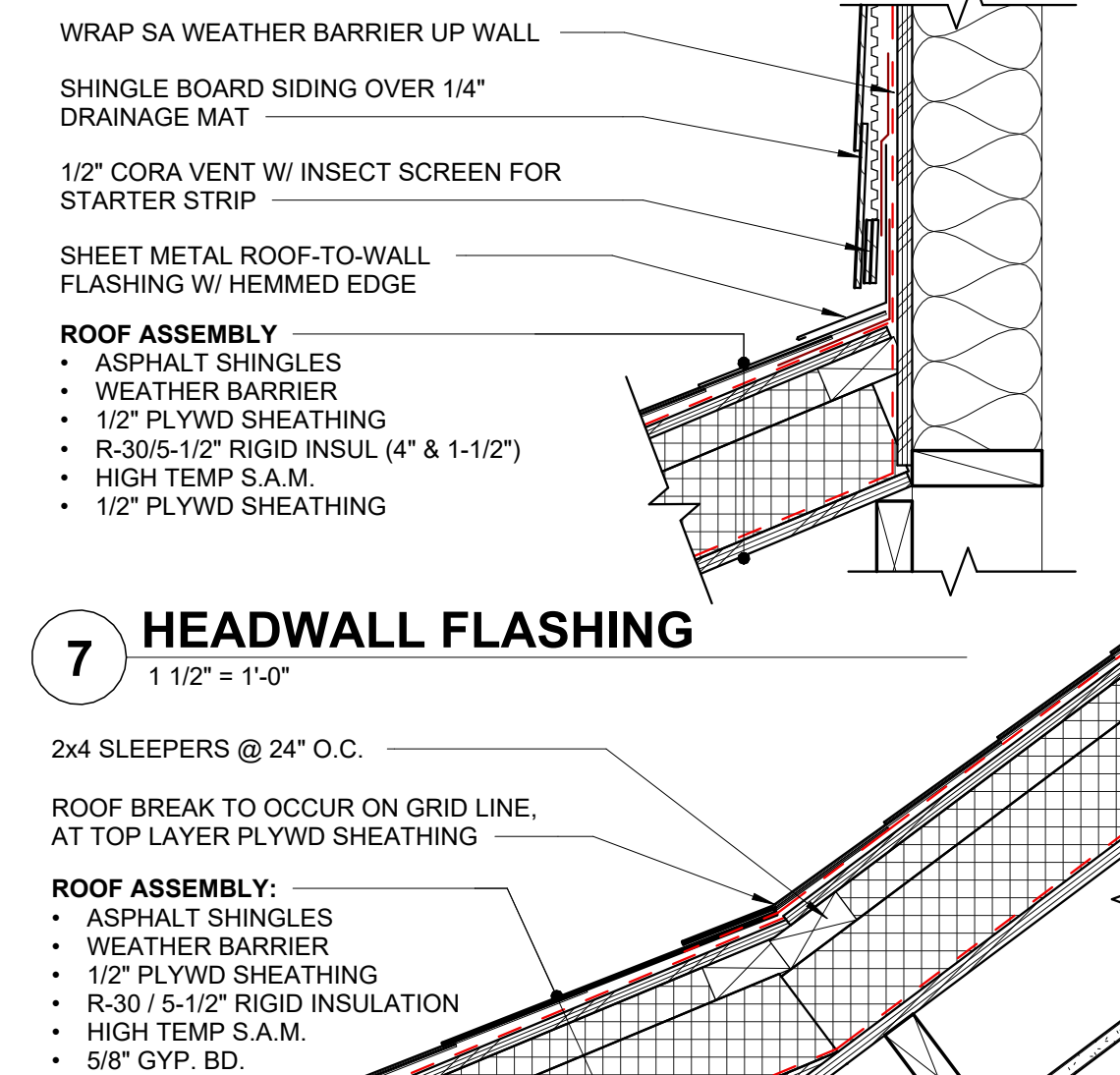
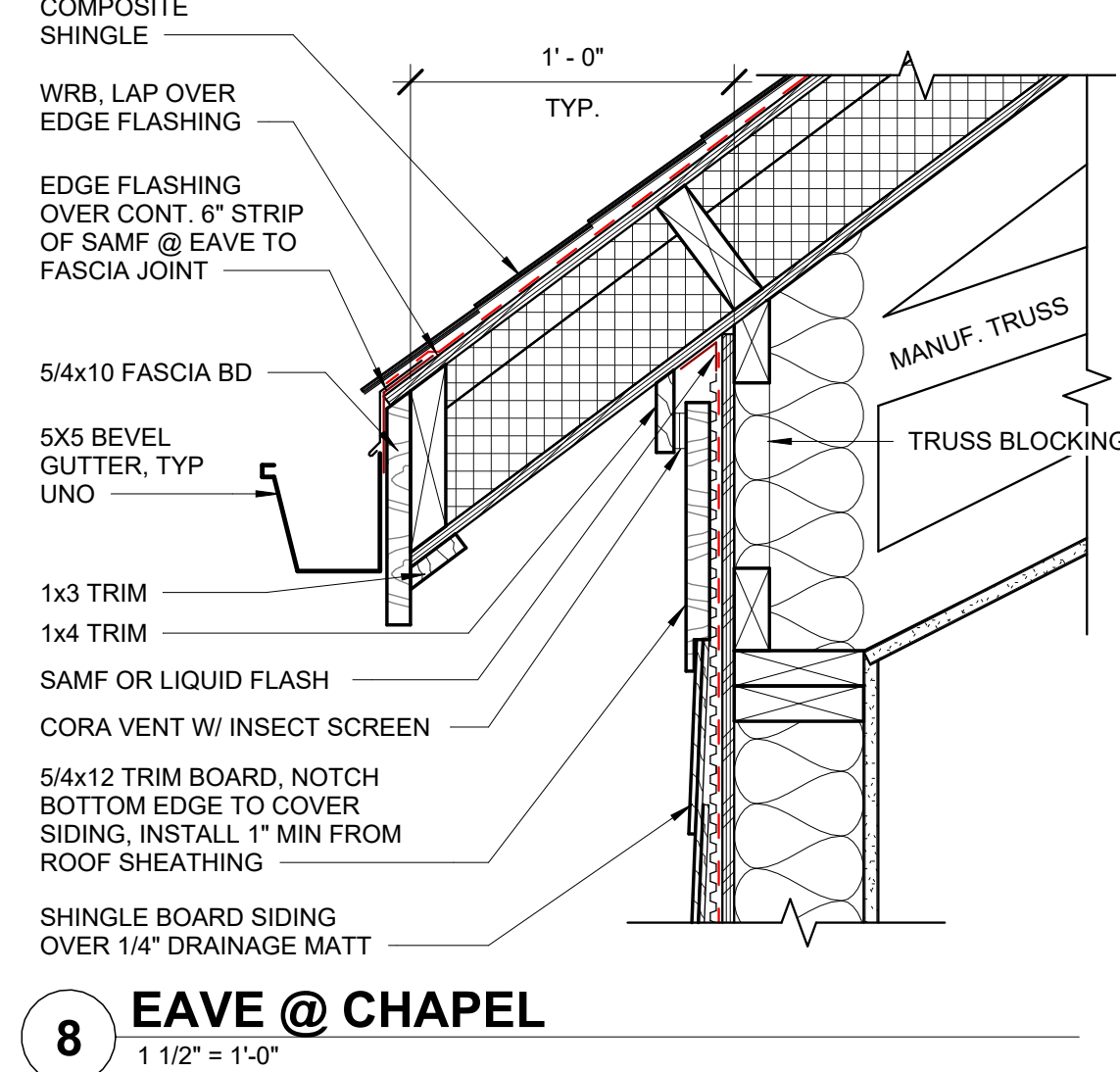
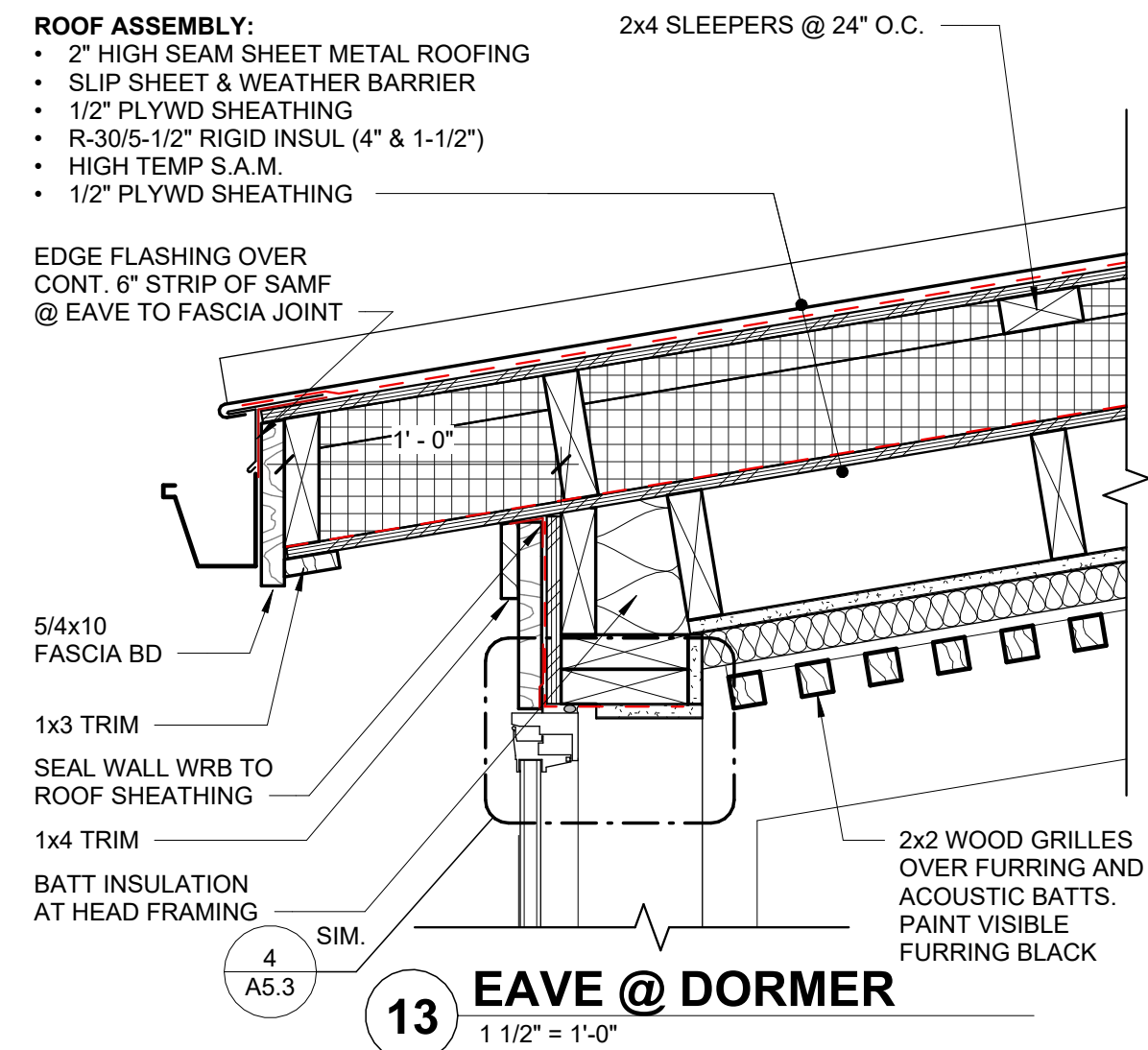
SHEET TITLE:  
**EXTERIOR ELEVATIONS**

**A4.2**

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**HGE ARCHITECTS**

333 S. 4TH STREET  
COOS BAY, OR 97420  
P: 541.269.1166  
general@hge1.com  
www.hge1.com

REGISTERED ARCHITECT

2840

JOSEPH A. SLACK

COOS BAY, OREGON

STATE OF OREGON

PROJECT NO.: 23.75

**HOLY TRINITY CATHOLIC CHURCH**

335 OREGON AVE. SE  
BANDON, OREGON 97411

CONSTRUCTION	
#	REVISIONS: DATE DESCRIPTION

DATE: JULY 2024

SHEET TITLE:  
**BUILDING DETAILS**

A5.1

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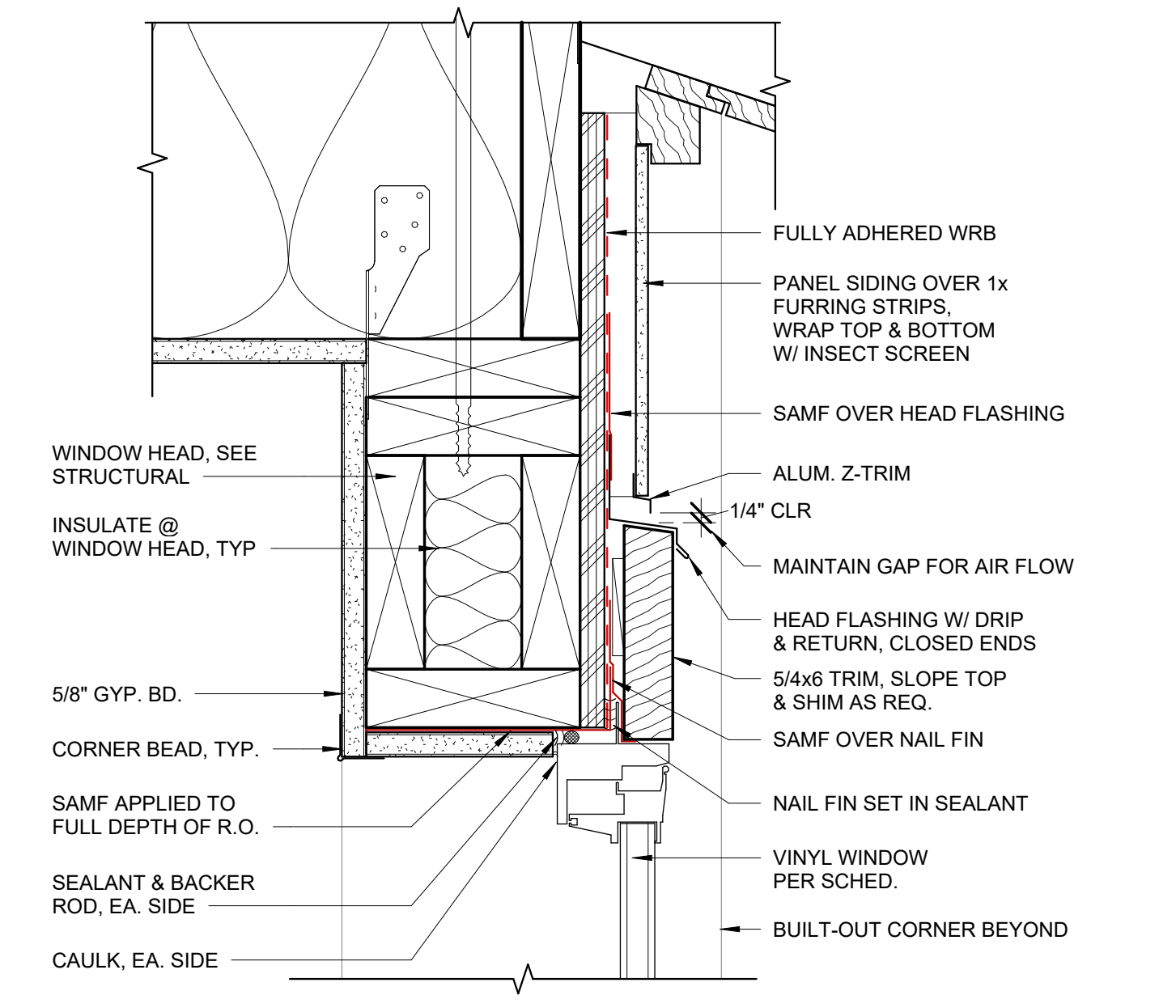
CONSTRUCTION

REVISIONS:	#	DATE	DESCRIPTION

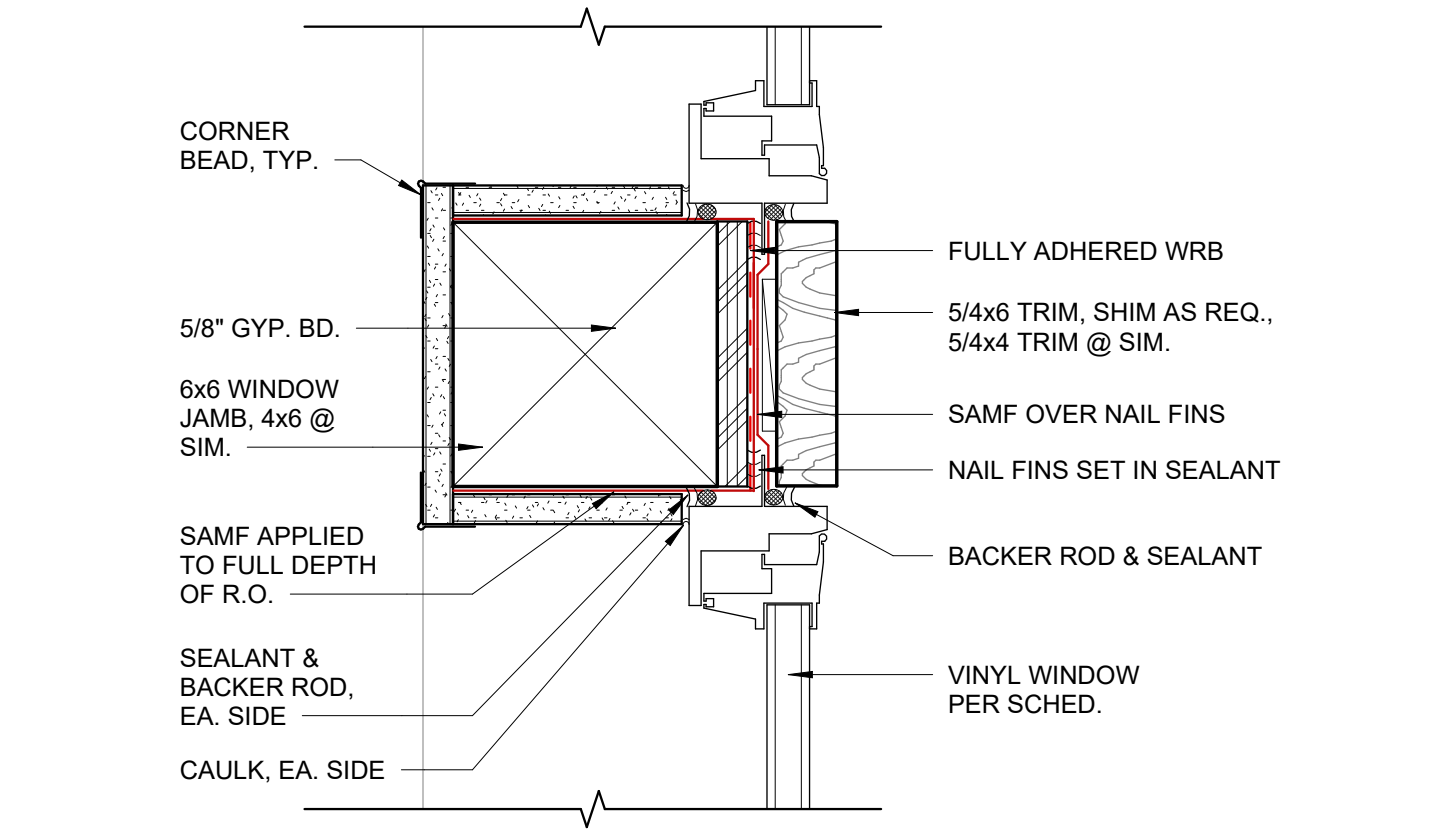
DATE: JULY 2024

SHEET TITLE: OPENING DETAILS

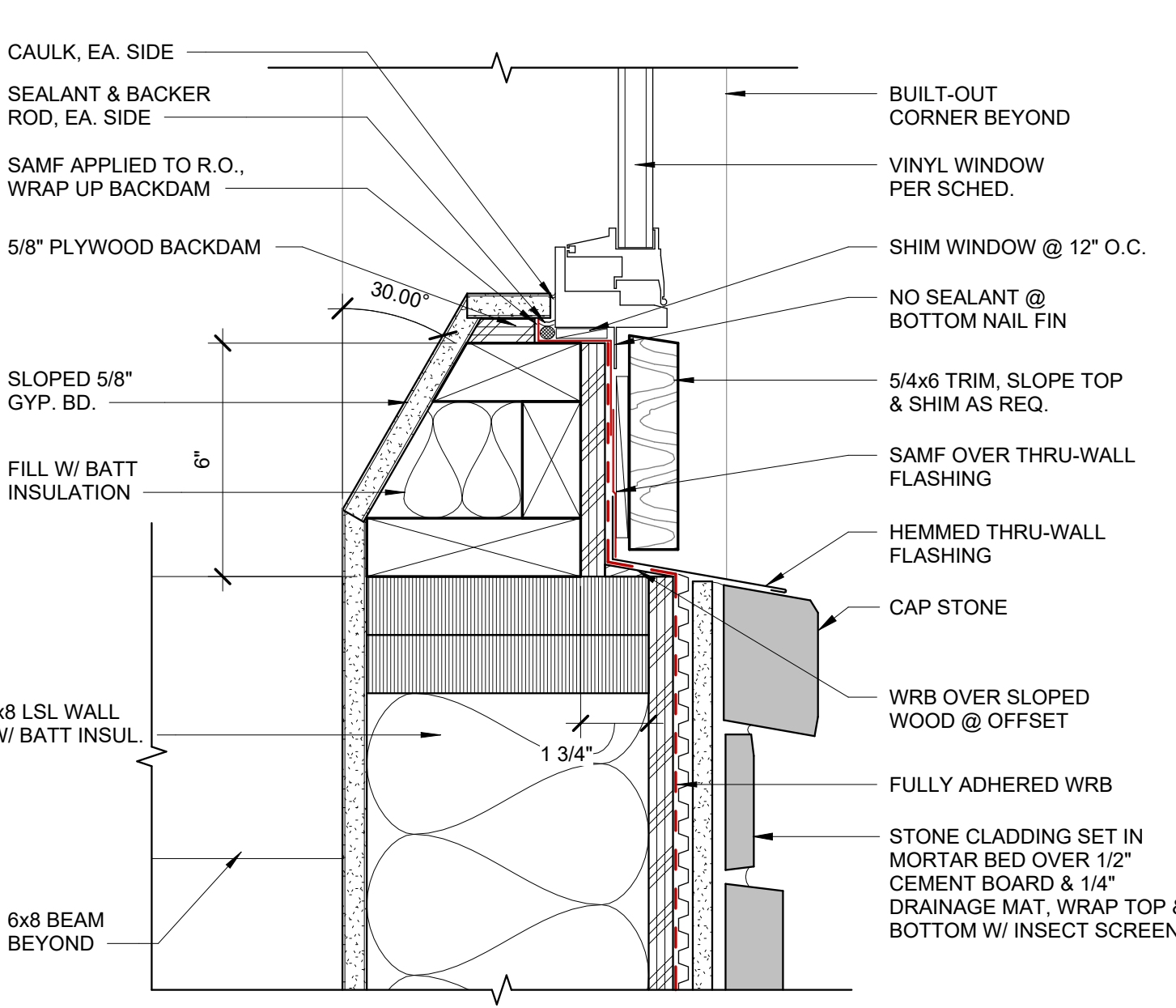
A5.3



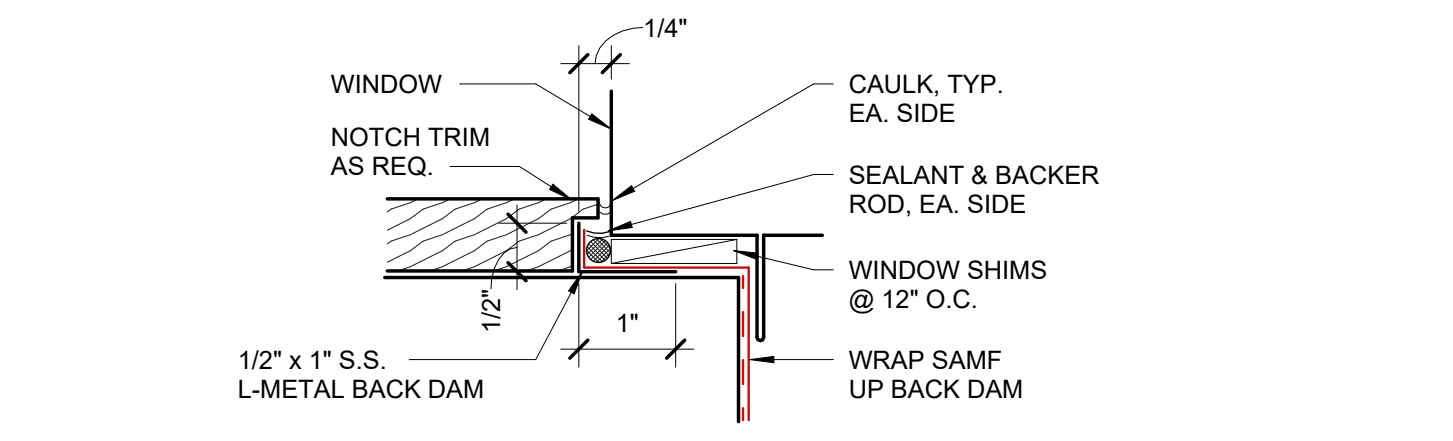
**4 WINDOW HEAD @ TOWER**  
3" = 1'-0"



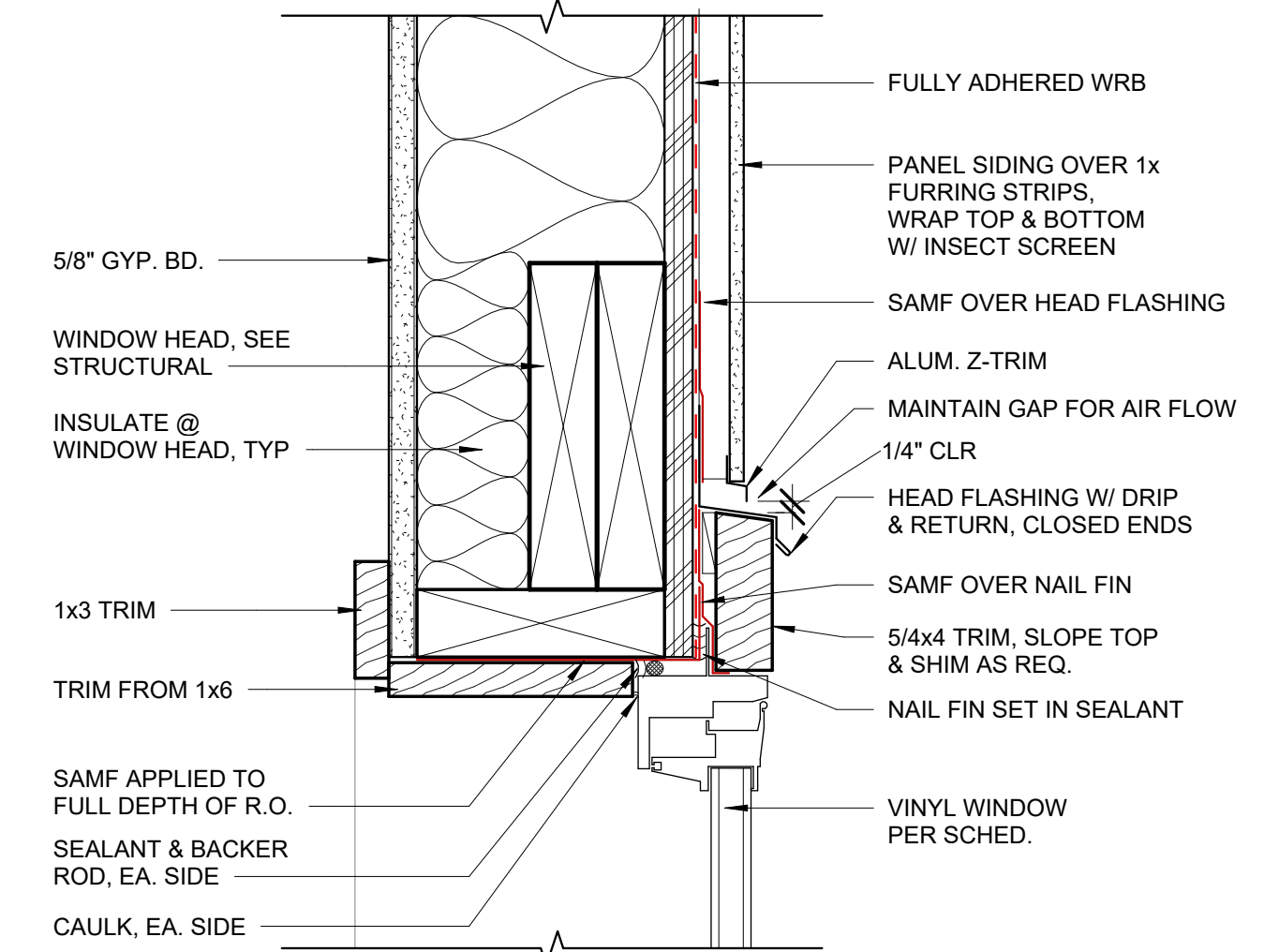
**3 WINDOW MULLION @ TOWER CLERESTORY WINDOWS SIM.**  
3" = 1'-0"



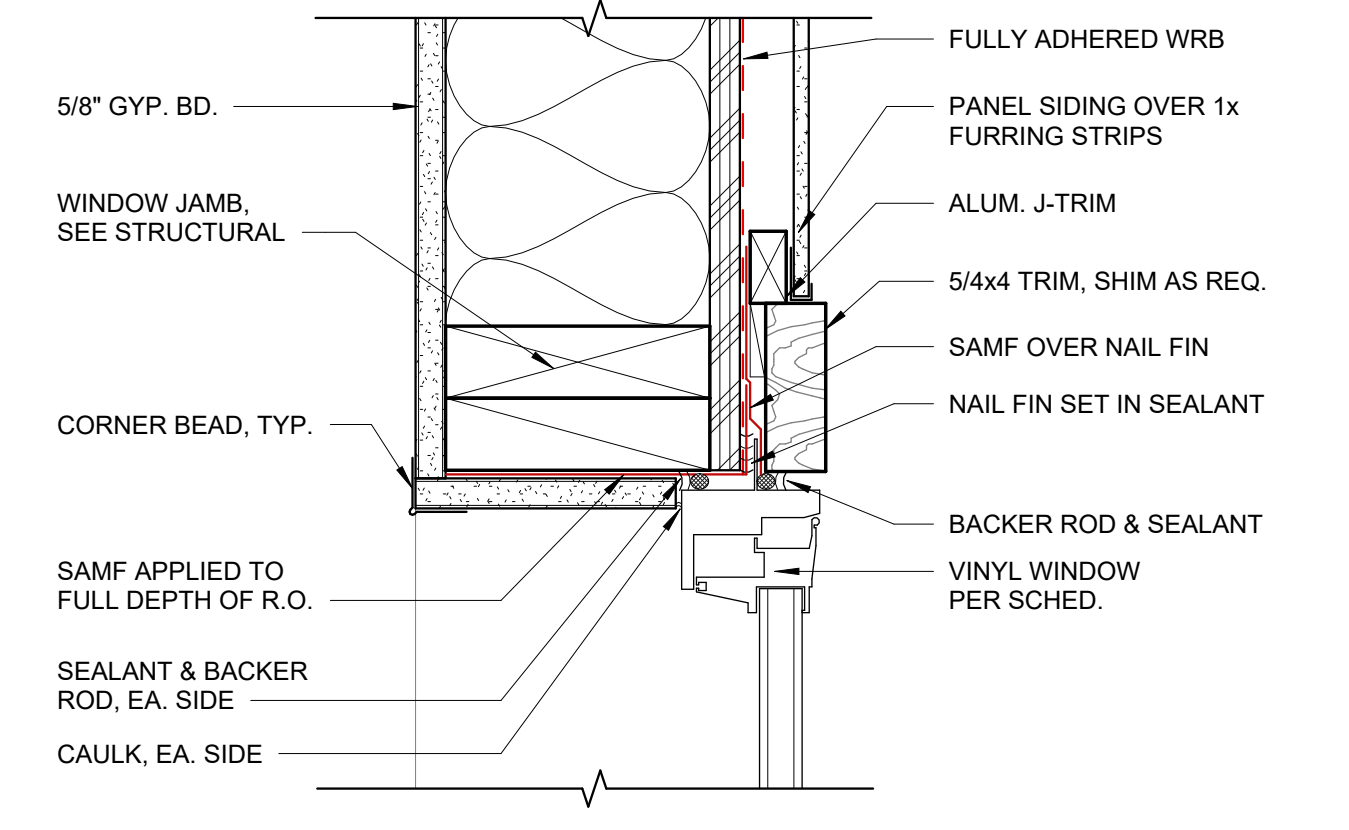
**2 WINDOW SILL @ TOWER**  
3" = 1'-0"



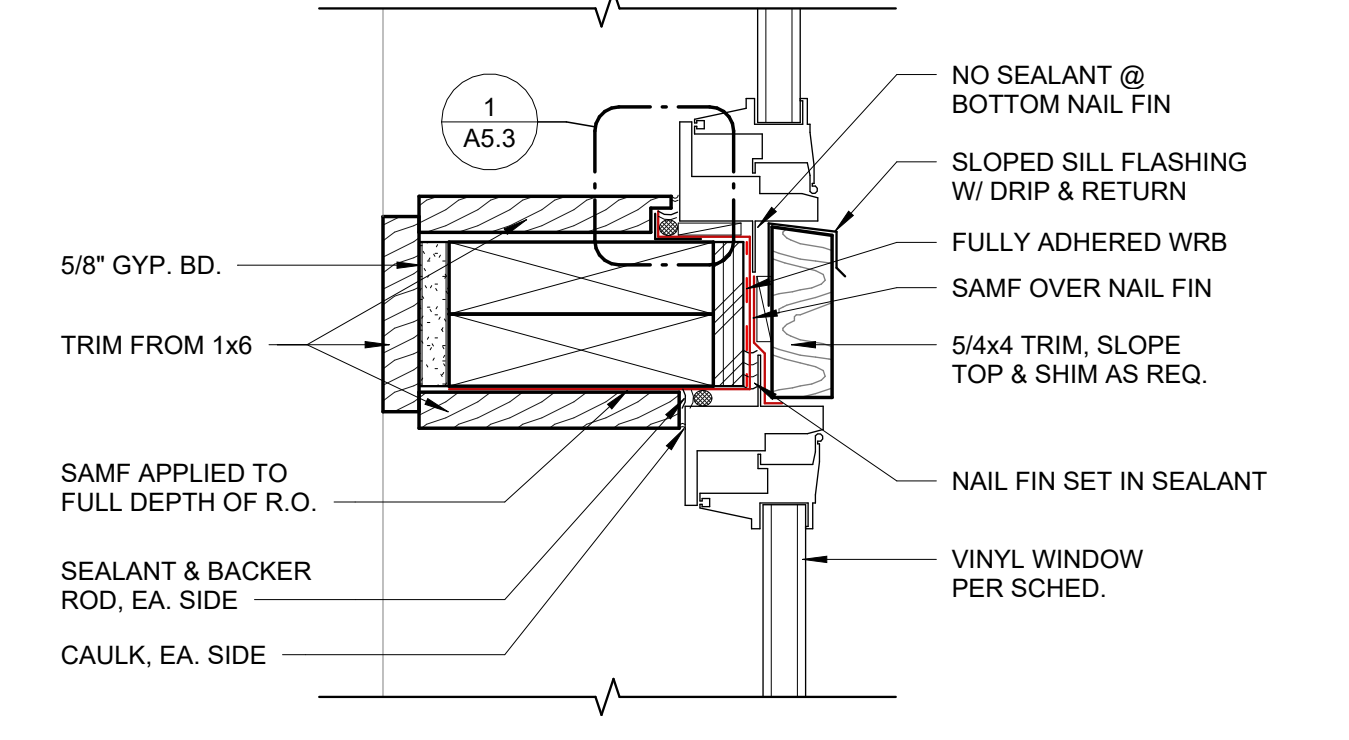
**1 BACK DAM, TYP.**  
6" = 1'-0"



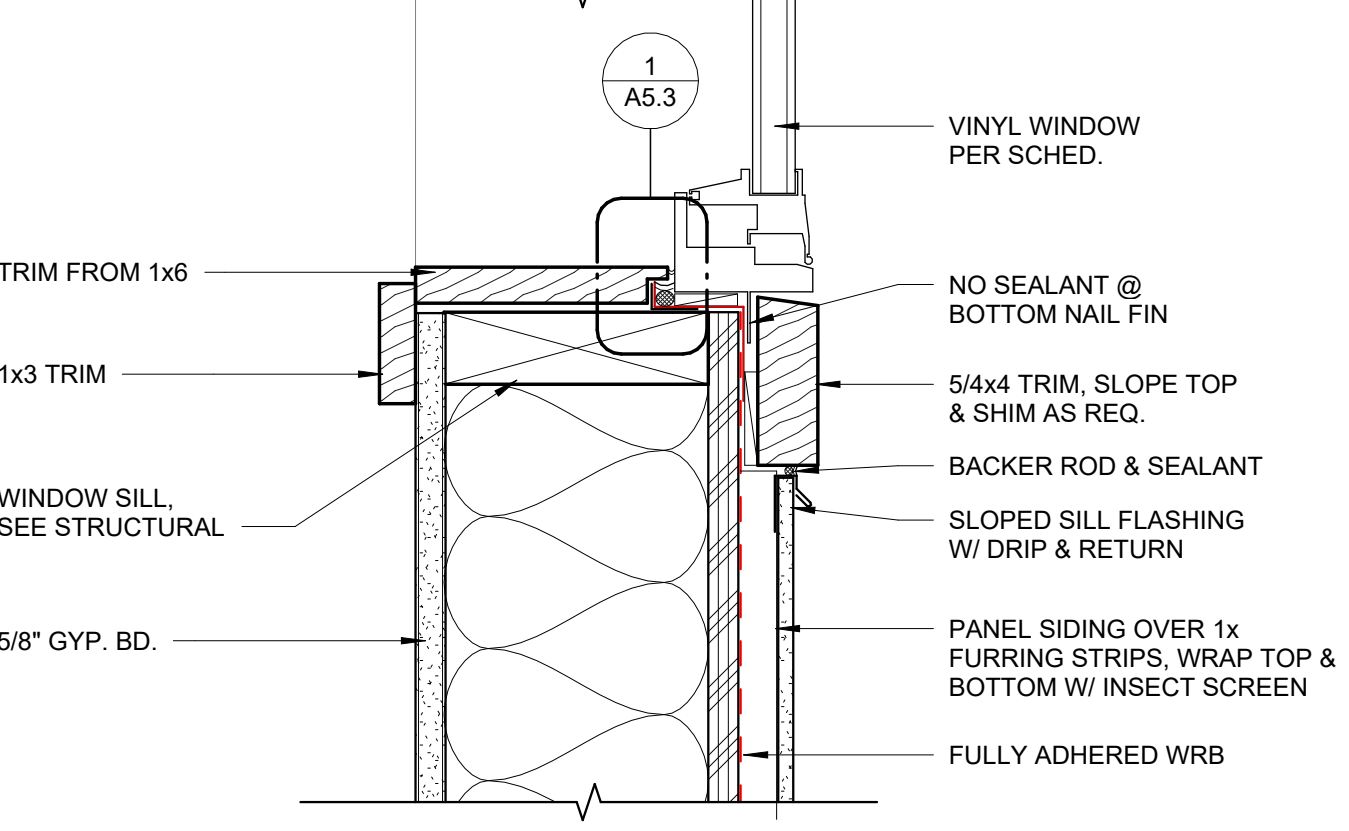
**5 WINDOW HEAD @ SANCTUARY**  
3" = 1'-0"



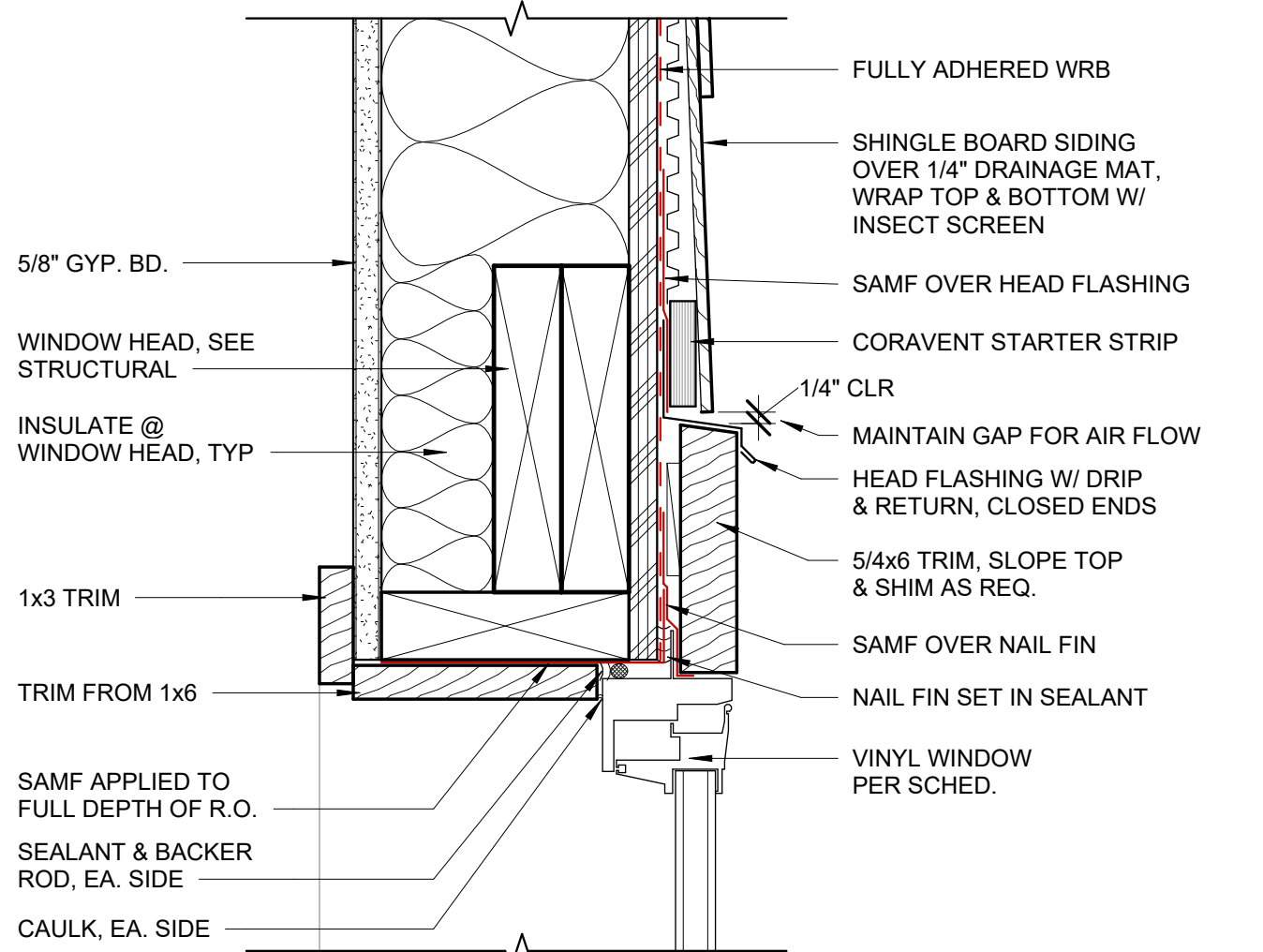
**6 WINDOW JAMB @ CLERESTORY WINDOWS**  
3" = 1'-0"



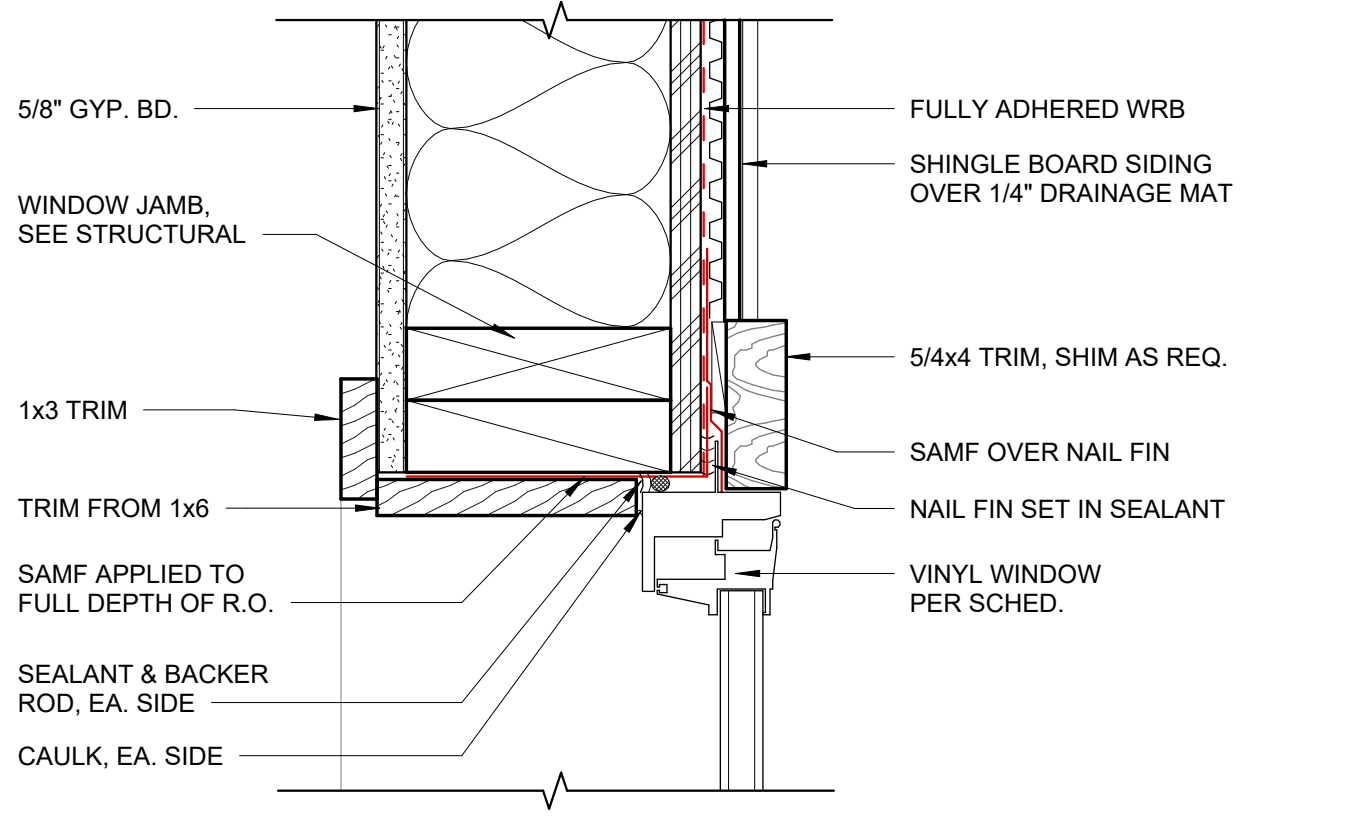
**7 HORIZ. WINDOW MULLION @ SANCTUARY**  
3" = 1'-0"



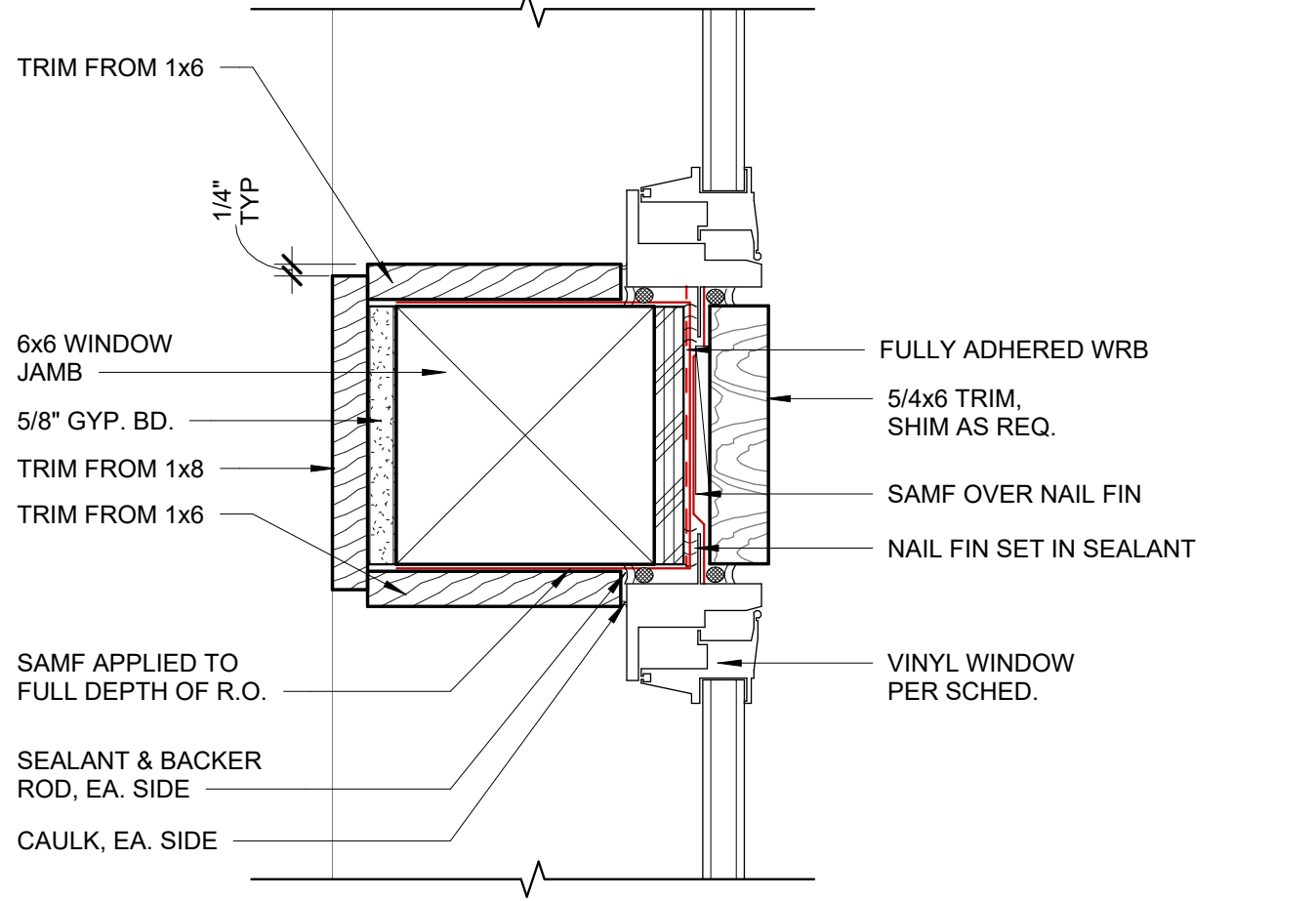
**8 WINDOW SILL @ SANCTUARY**  
3" = 1'-0"



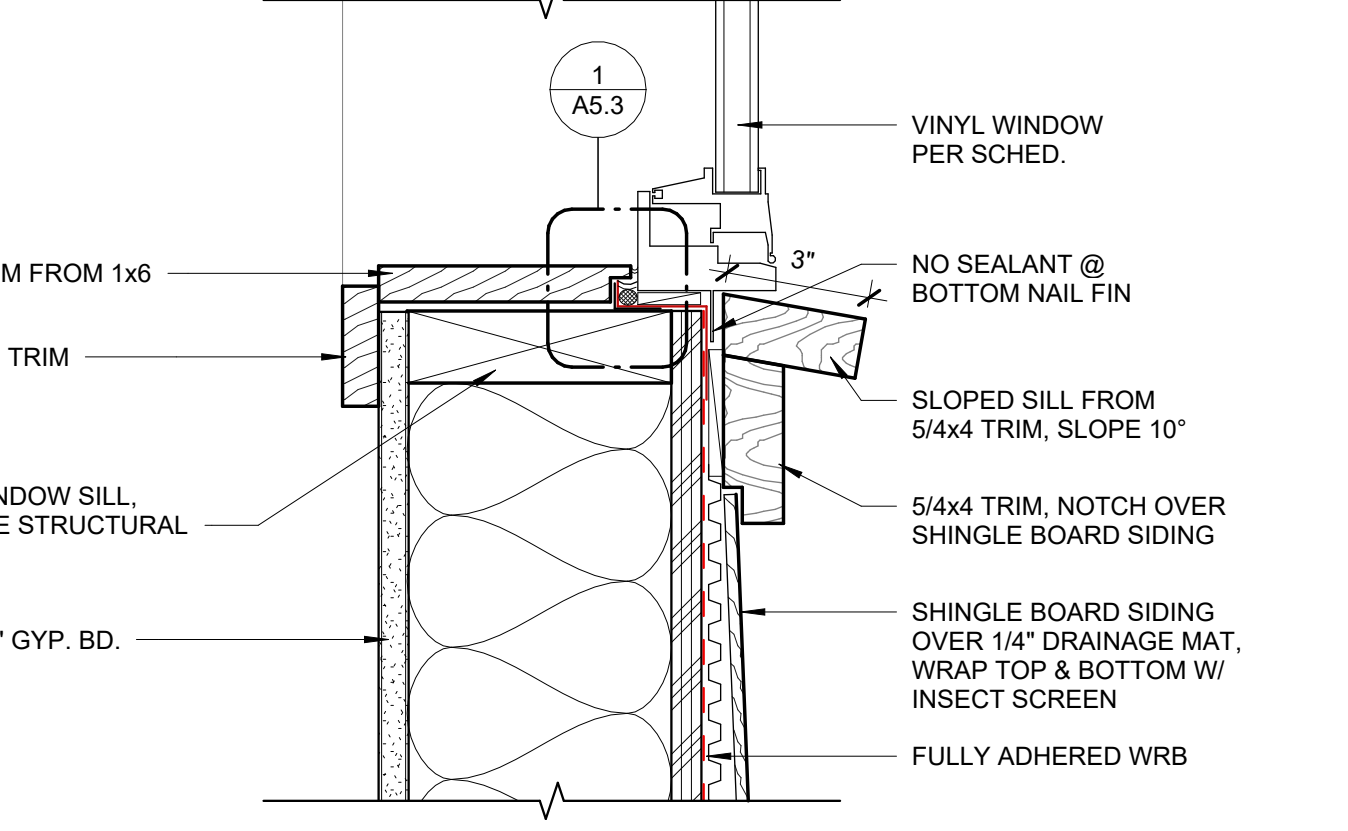
**12 WINDOW HEAD @ SHINGLE SIDING**  
3" = 1'-0"



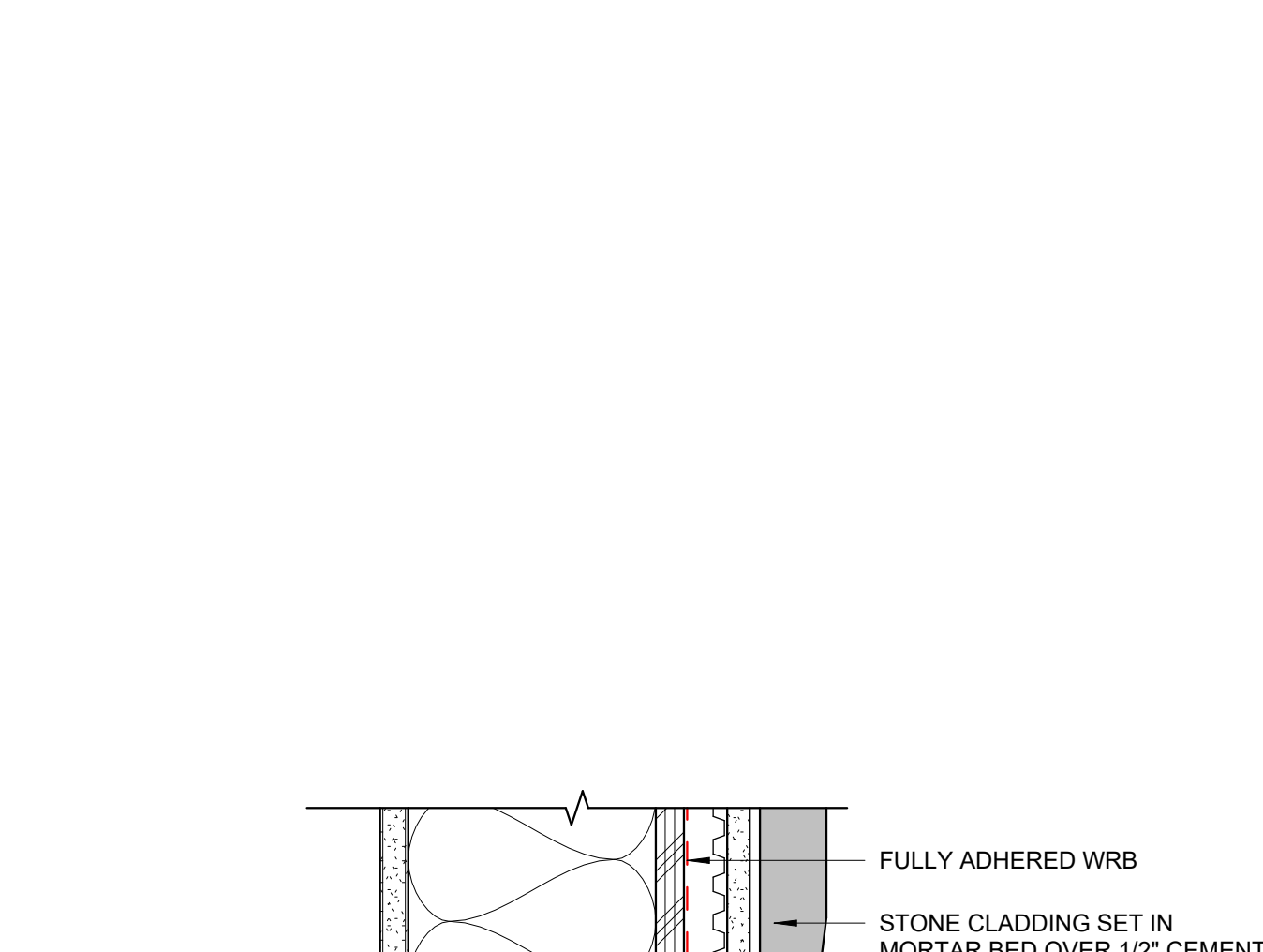
**11 WINDOW JAMB @ SHINGLE SIDING**  
3" = 1'-0"



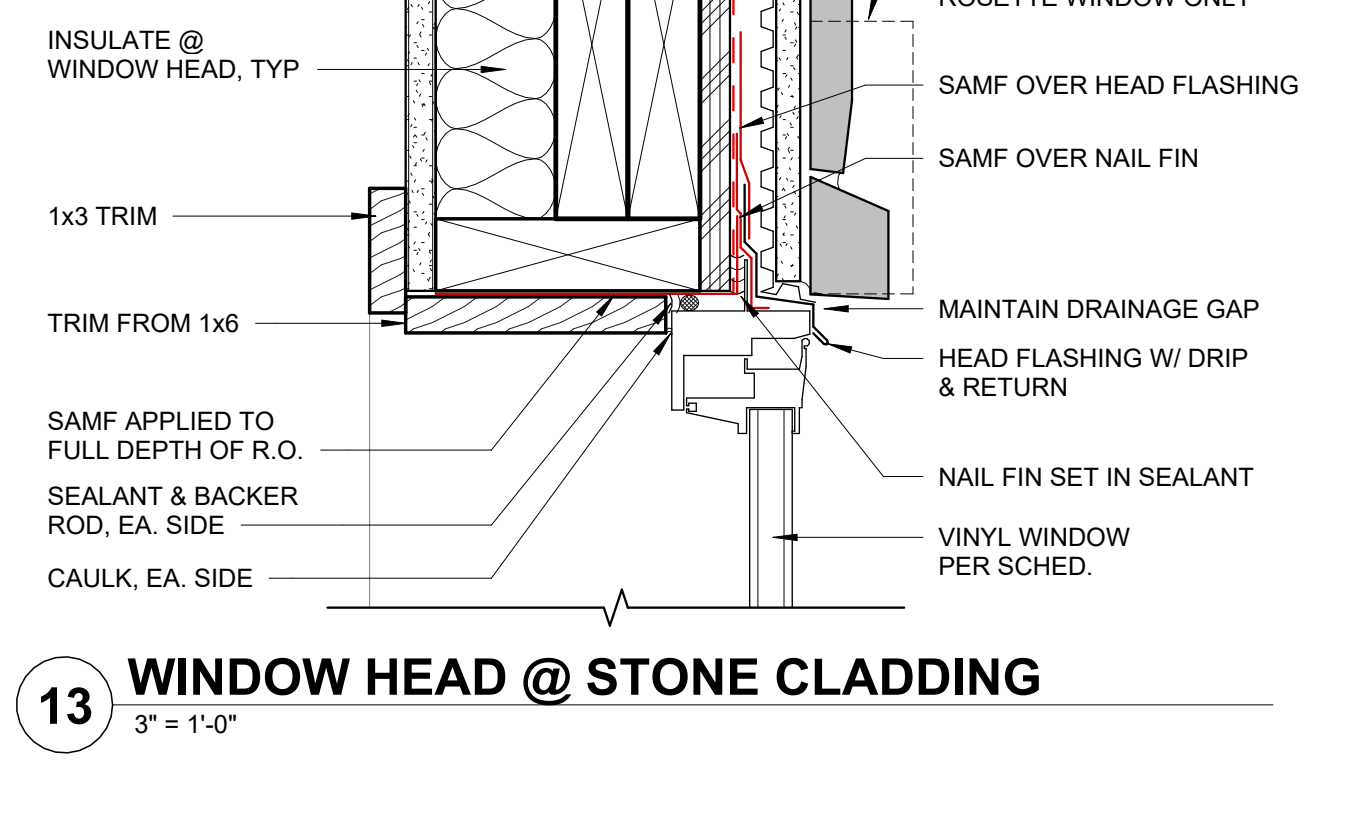
**10 WINDOW MULLION**  
3" = 1'-0"



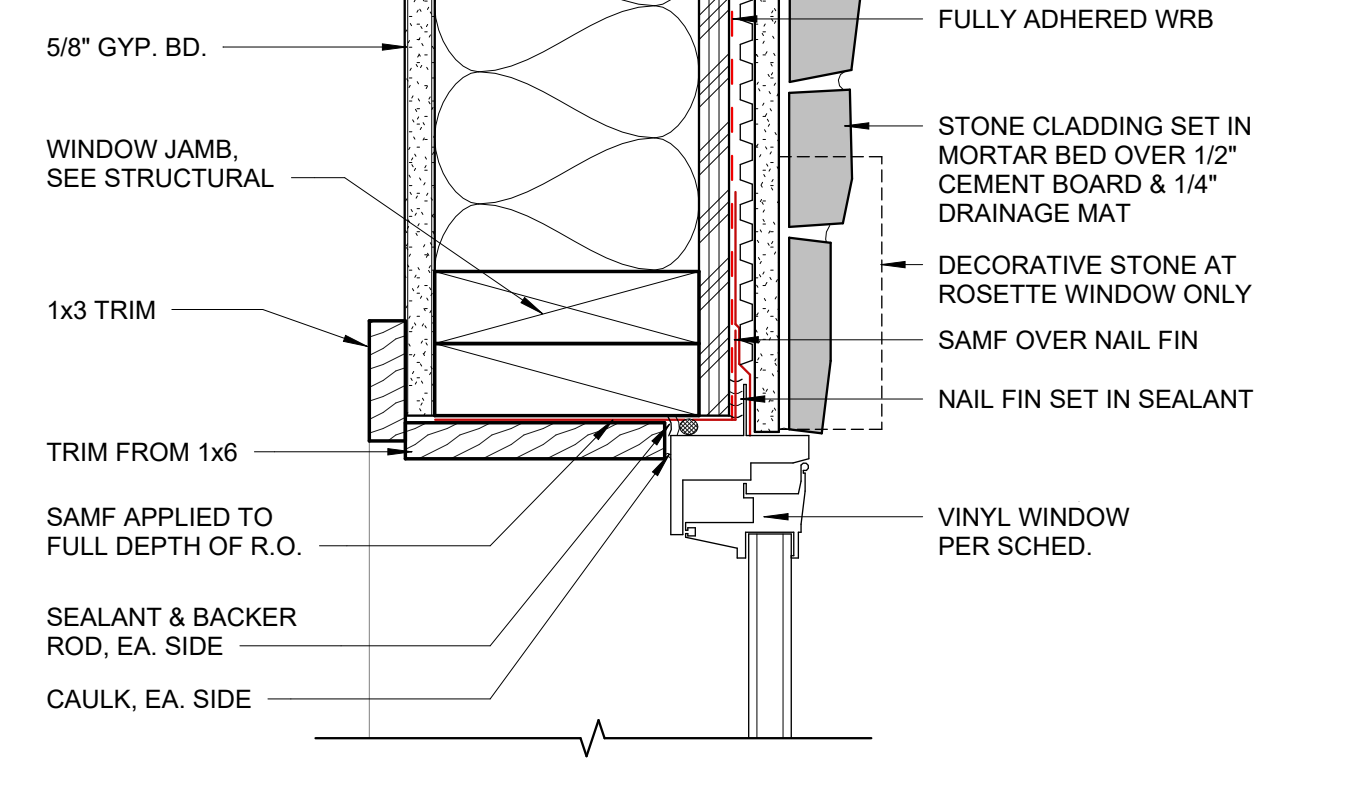
**9 WINDOW SILL @ SHINGLE SIDING**  
3" = 1'-0"



**13 WINDOW HEAD @ STONE CLADDING**  
3" = 1'-0"



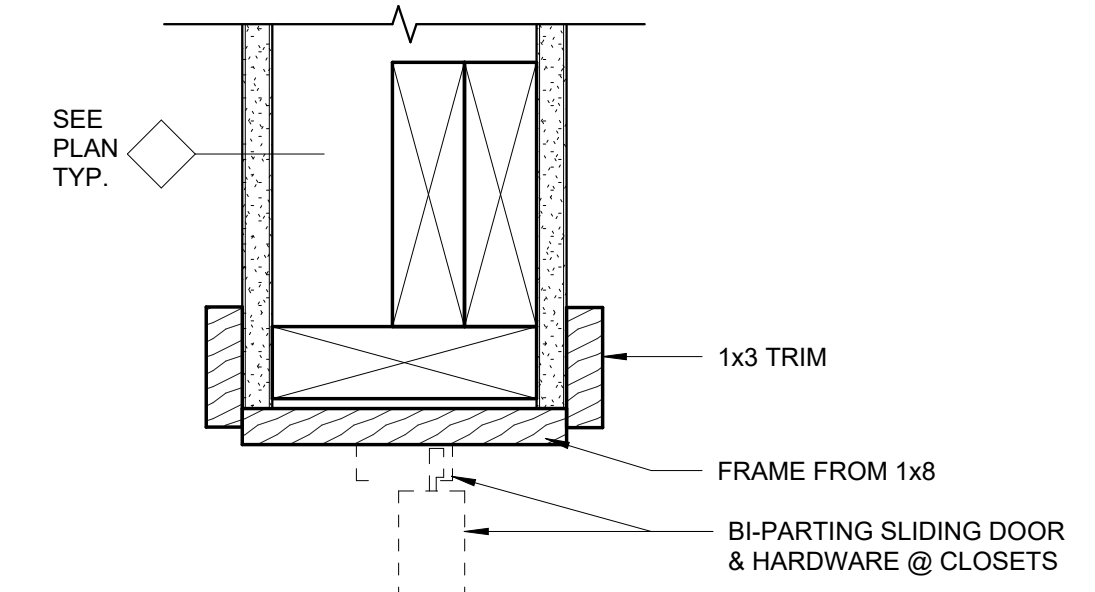
**14 WINDOW JAMB @ STONE CLADDING**  
3" = 1'-0"



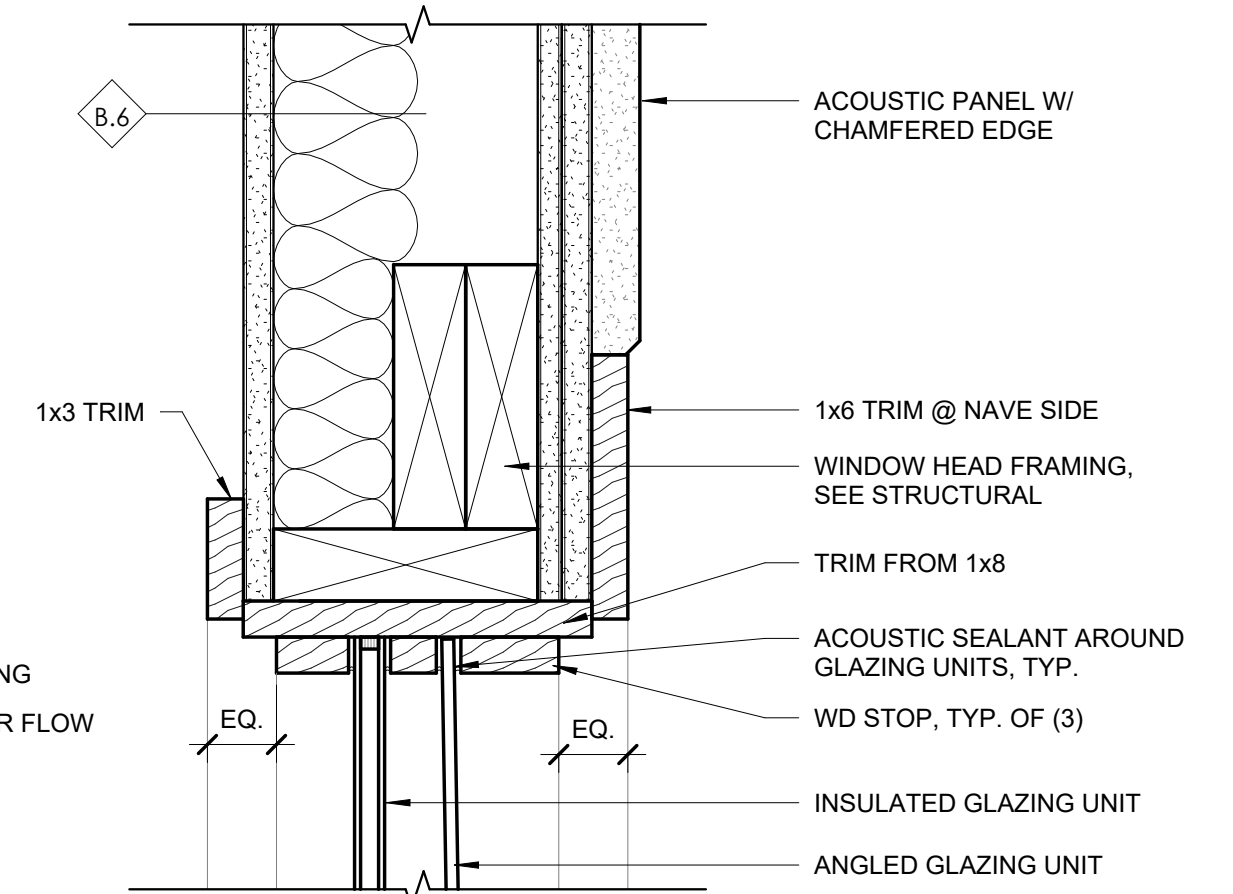
**15 WINDOW SILL @ STONE CLADDING**  
3" = 1'-0"

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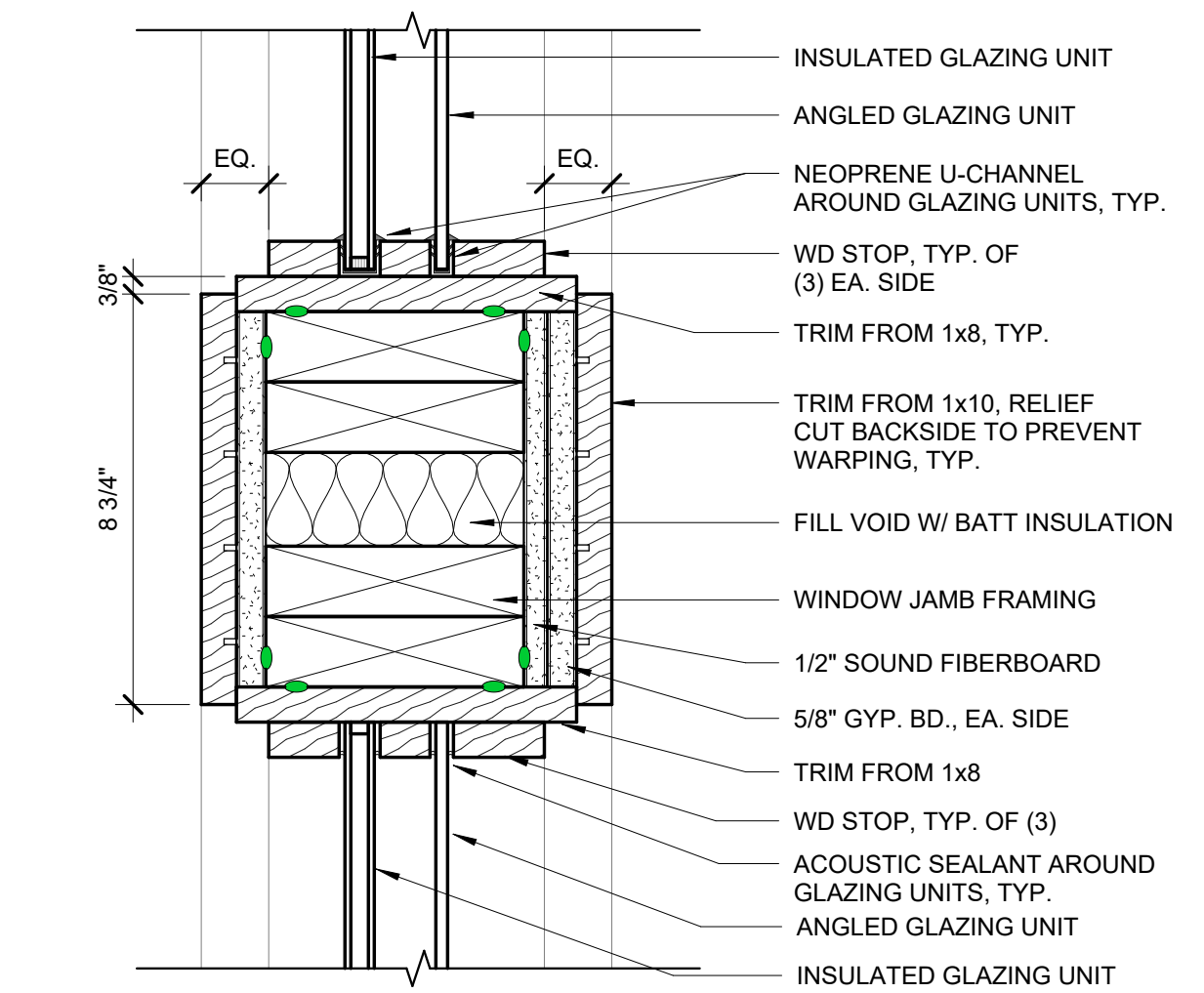




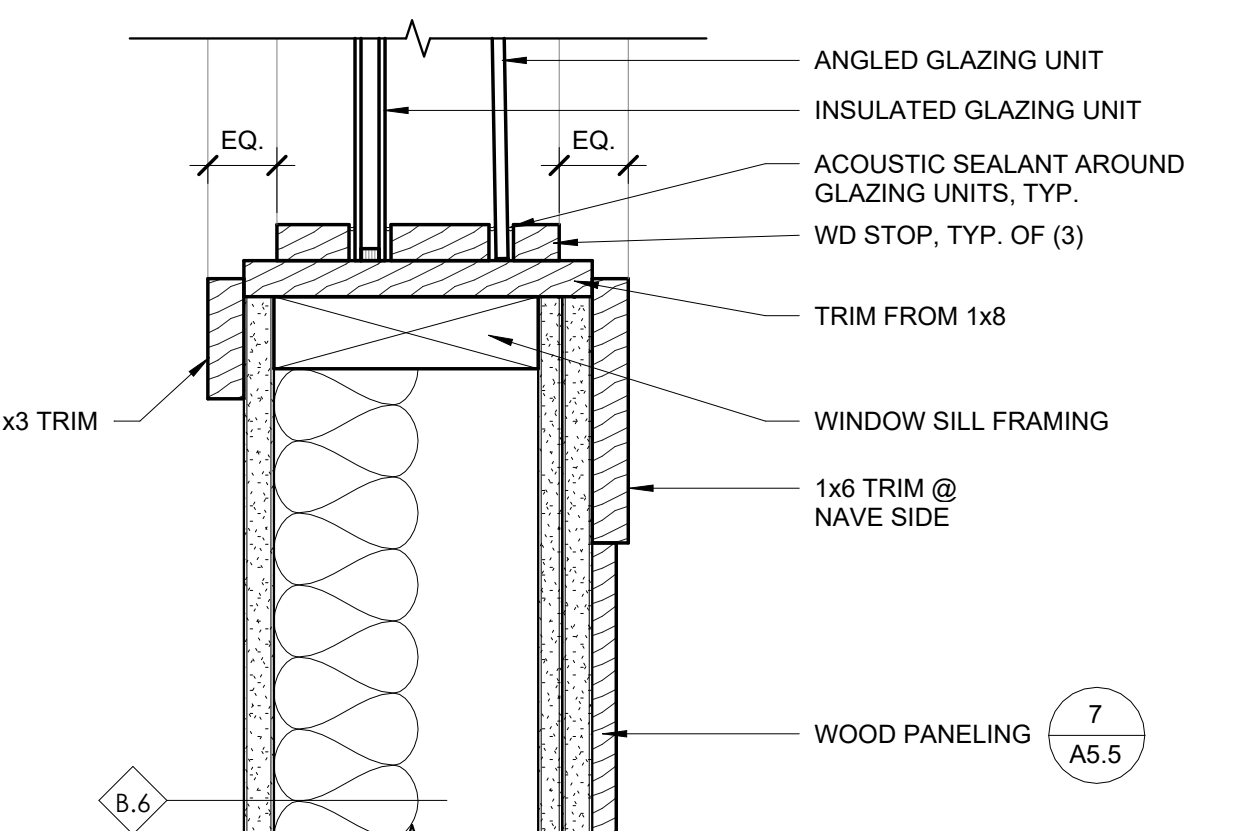
4 CASED OPENING HEAD (JAMB SIM.)  
3" = 1'-0"



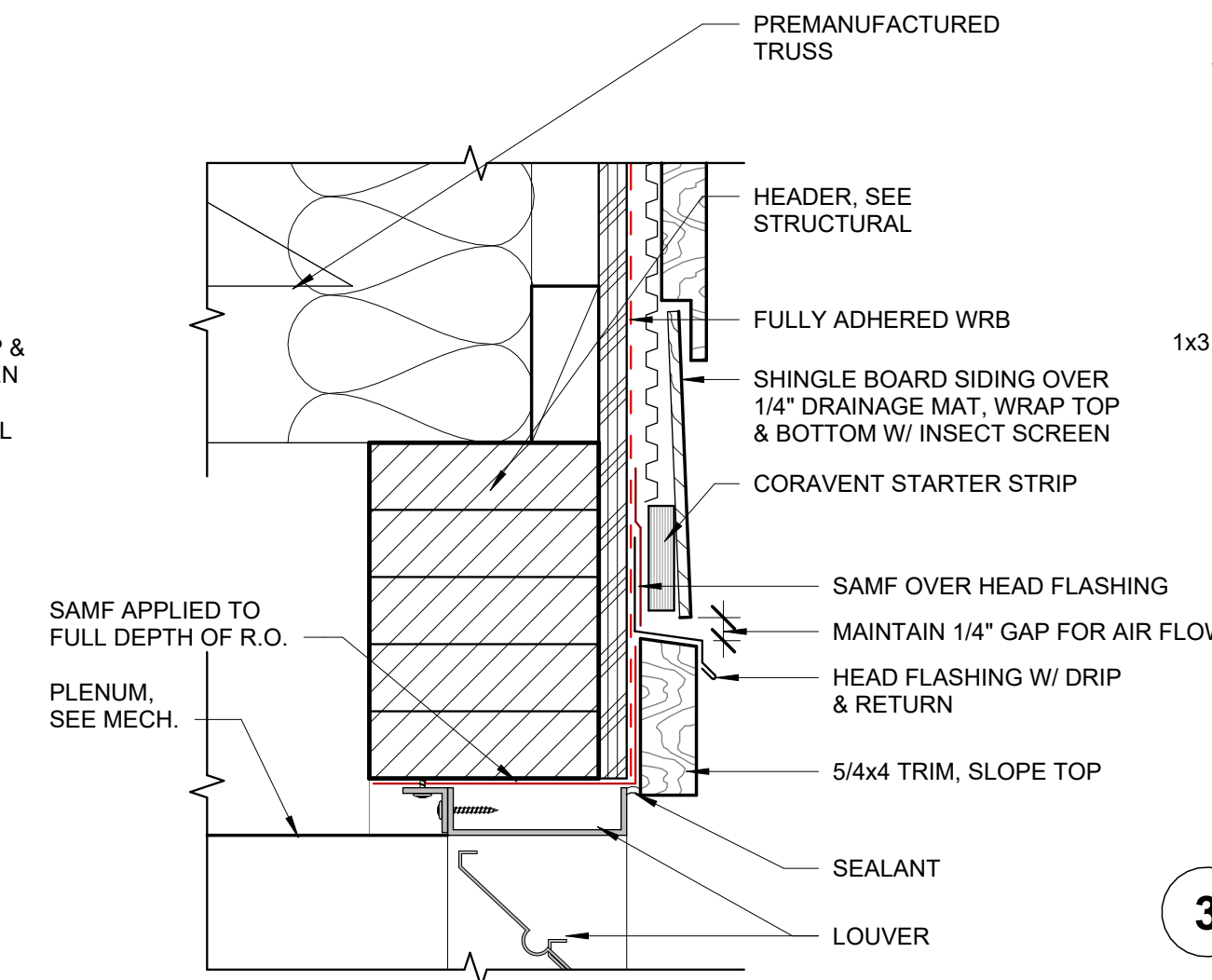
3 INT. WINDOW HEAD  
3" = 1'-0"



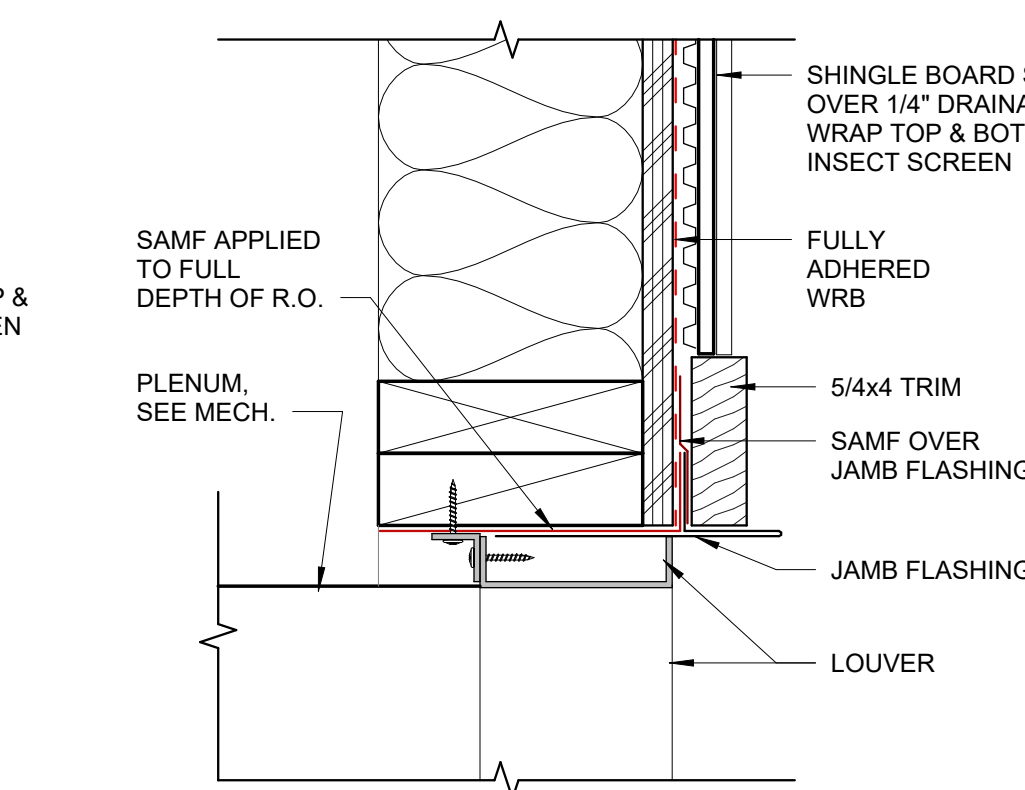
2 INT. WINDOW MULLION/JAMB  
3" = 1'-0"



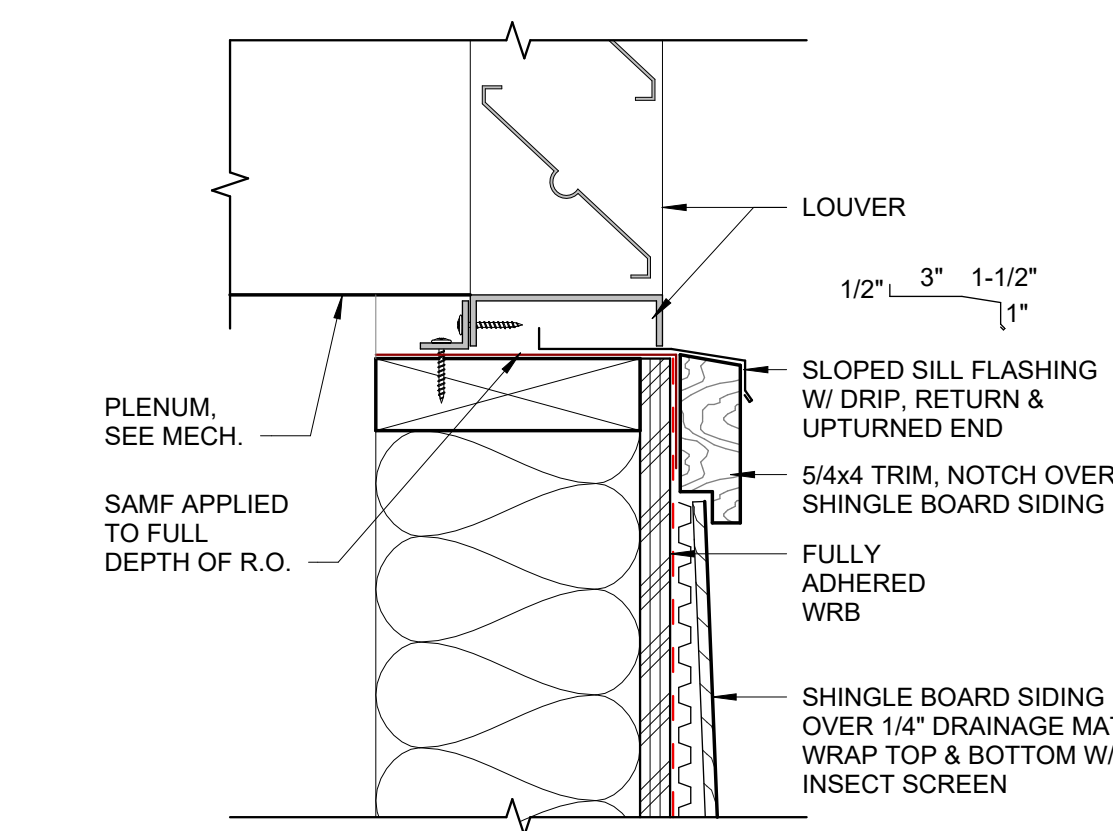
1 INT. WINDOW SILL  
3" = 1'-0"



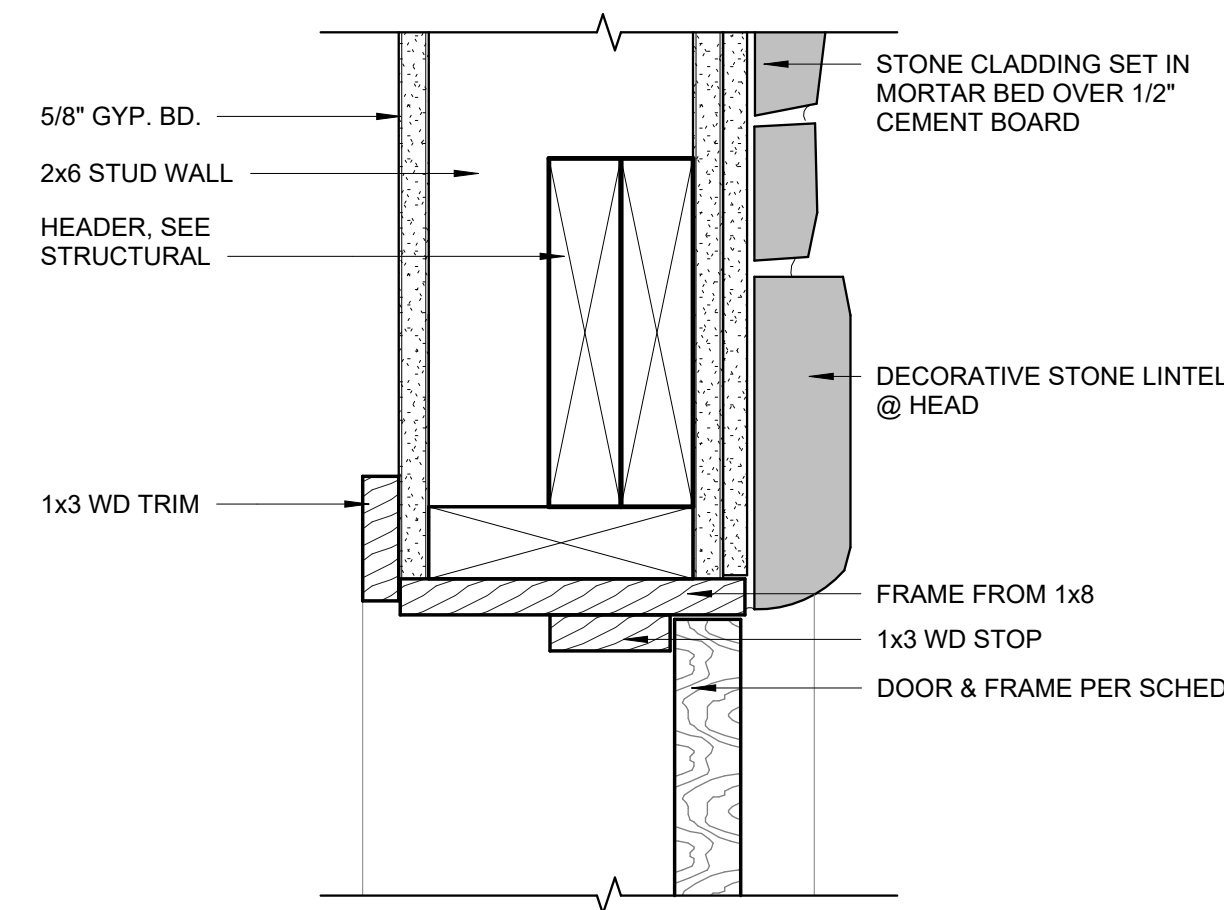
5 LOUVER HEAD @ SHINGLE SIDING  
3" = 1'-0"



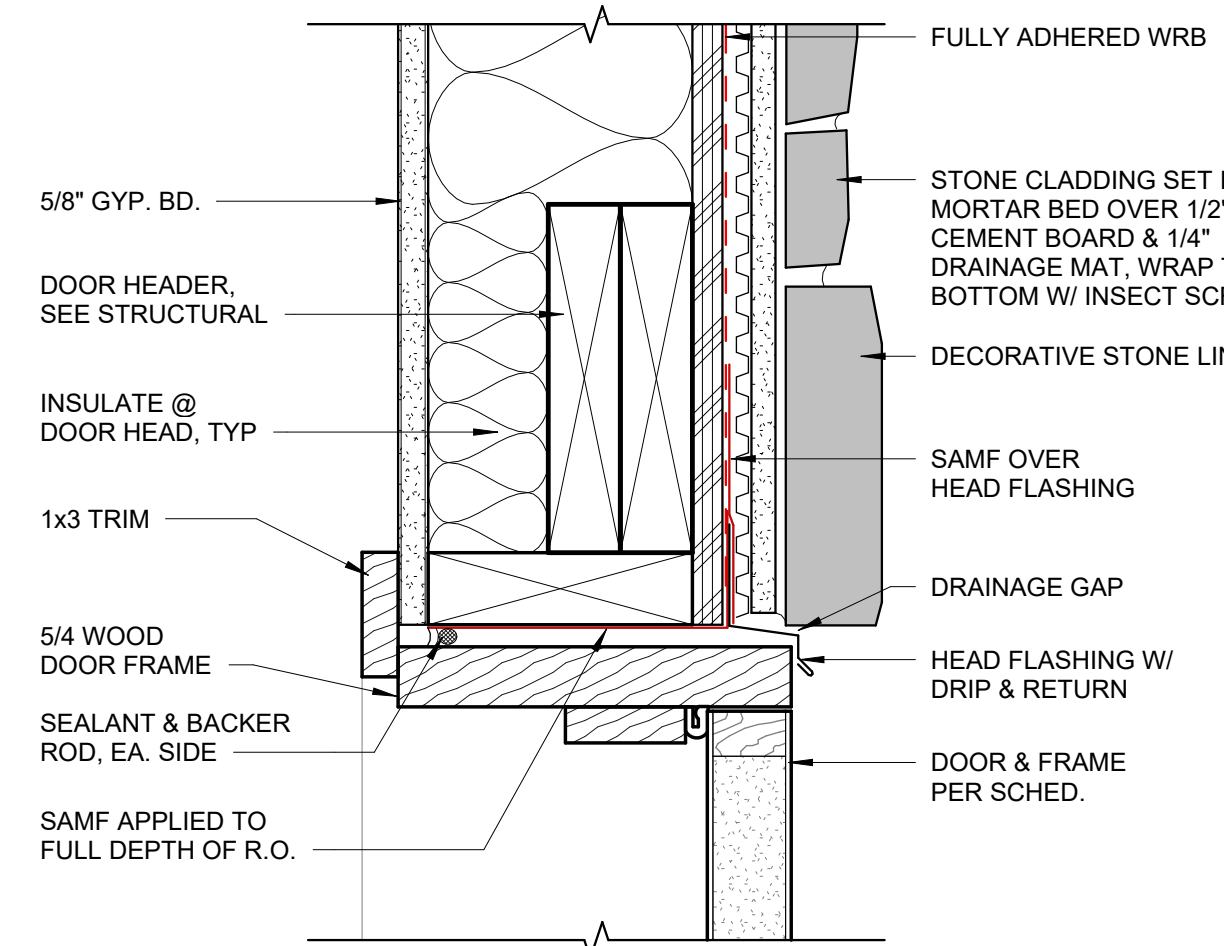
6 LOUVER JAMB @ SHINGLE SIDING  
3" = 1'-0"



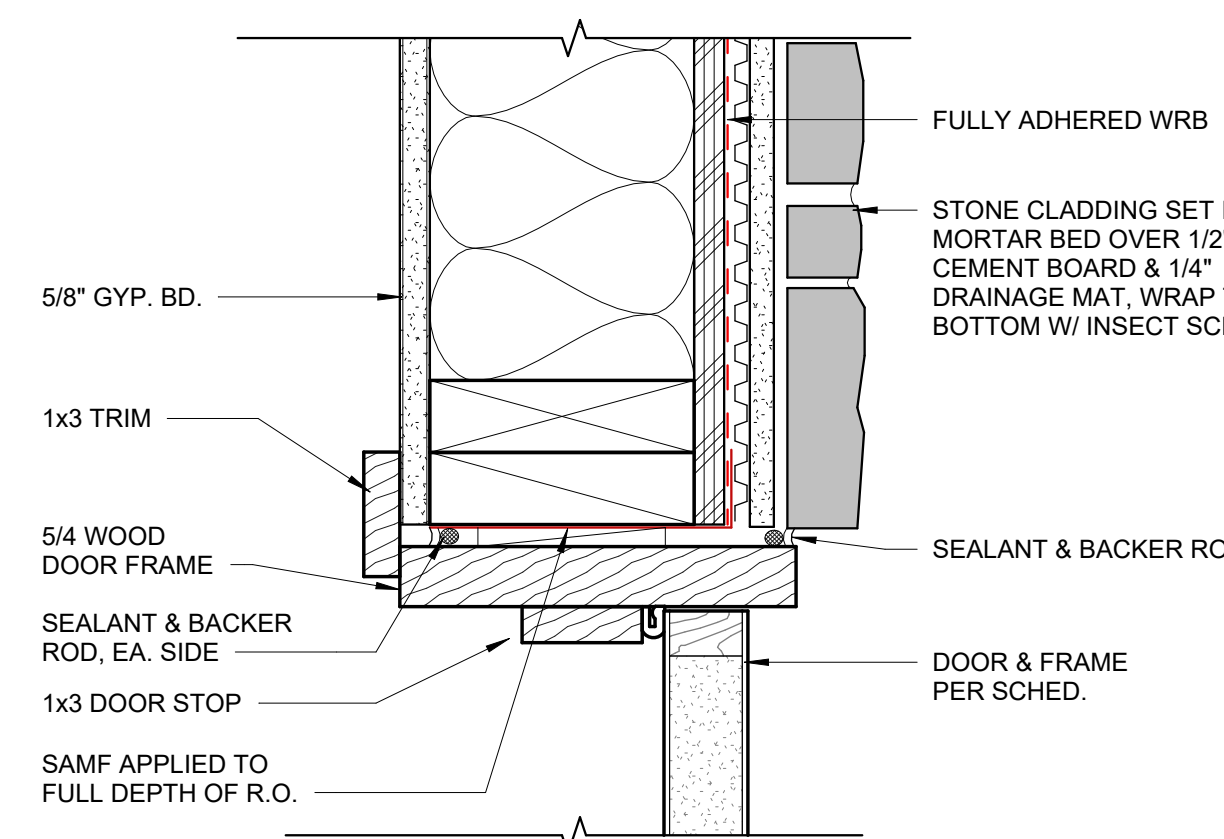
7 LOUVER SILL @ SHINGLE SIDING  
3" = 1'-0"



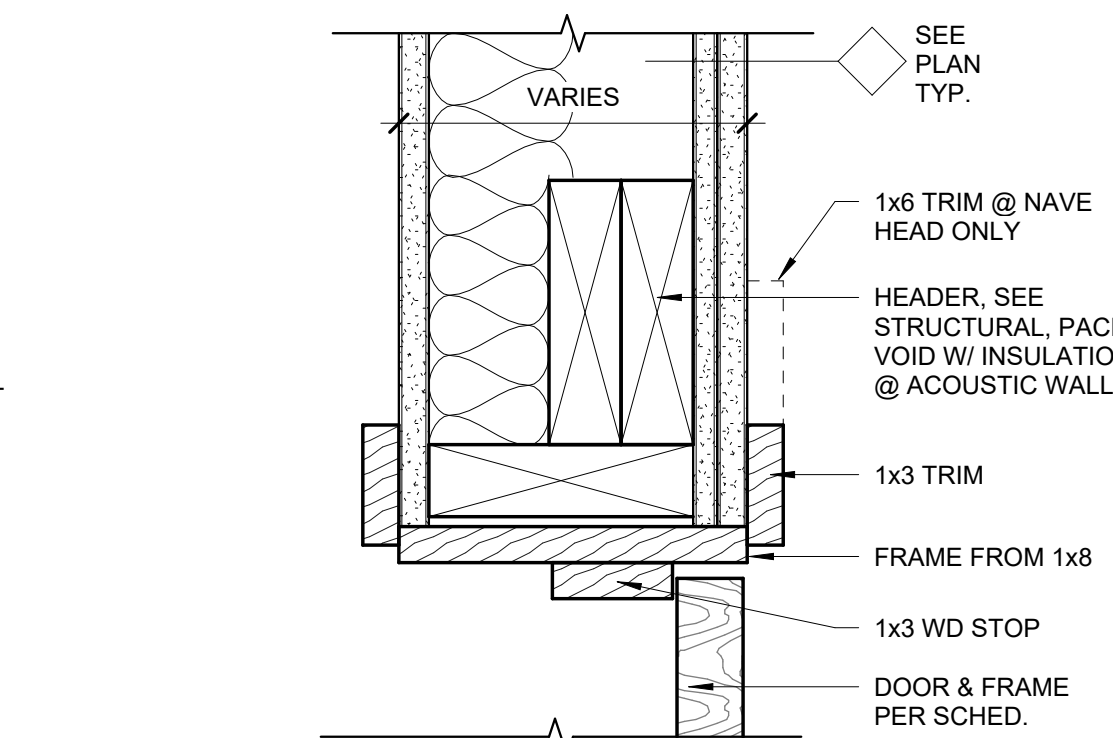
11 DOOR HEAD @ CHAPEL (JAMB SIM.)  
3" = 1'-0"



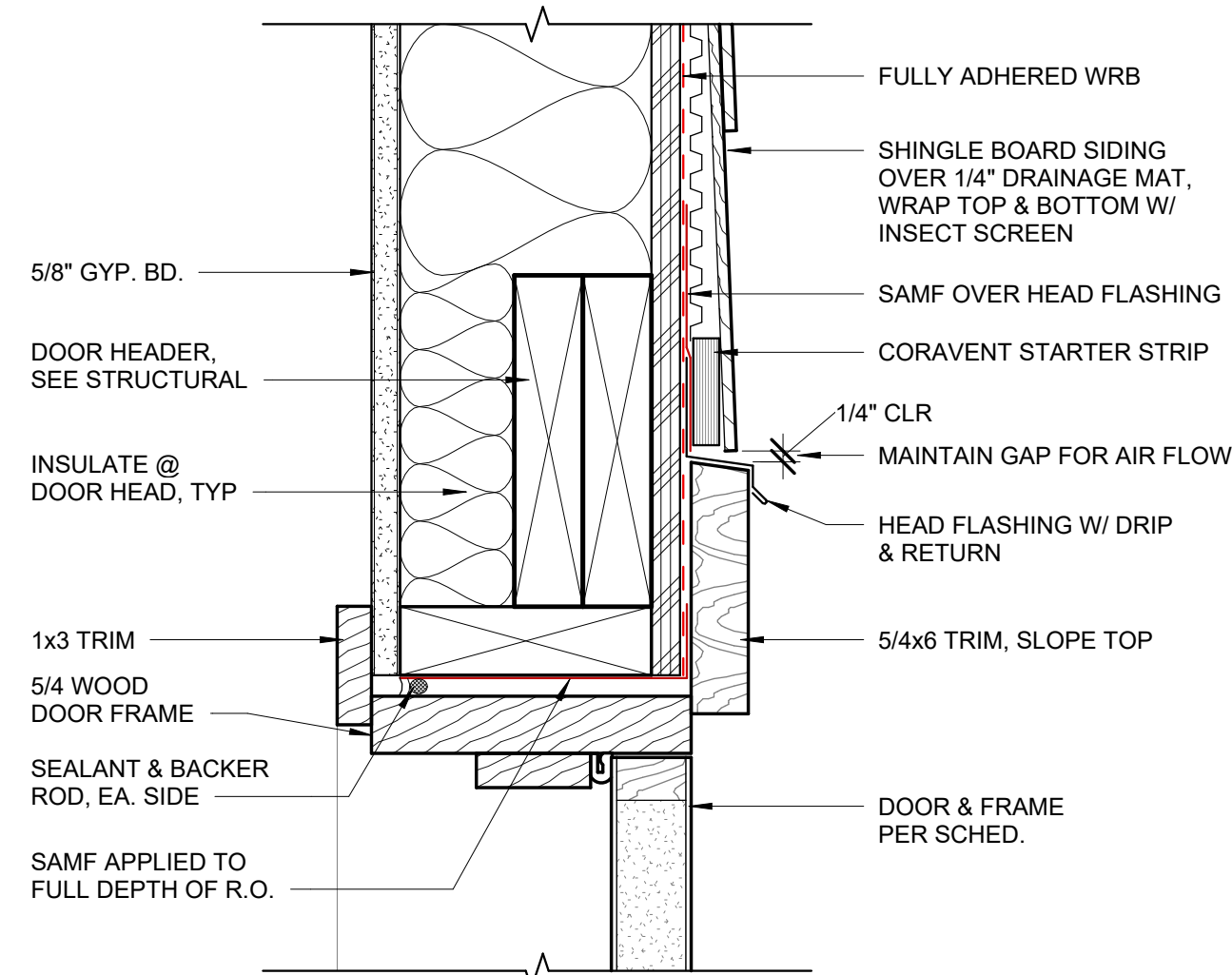
10 DOOR HEAD @ ENTRY  
3" = 1'-0"



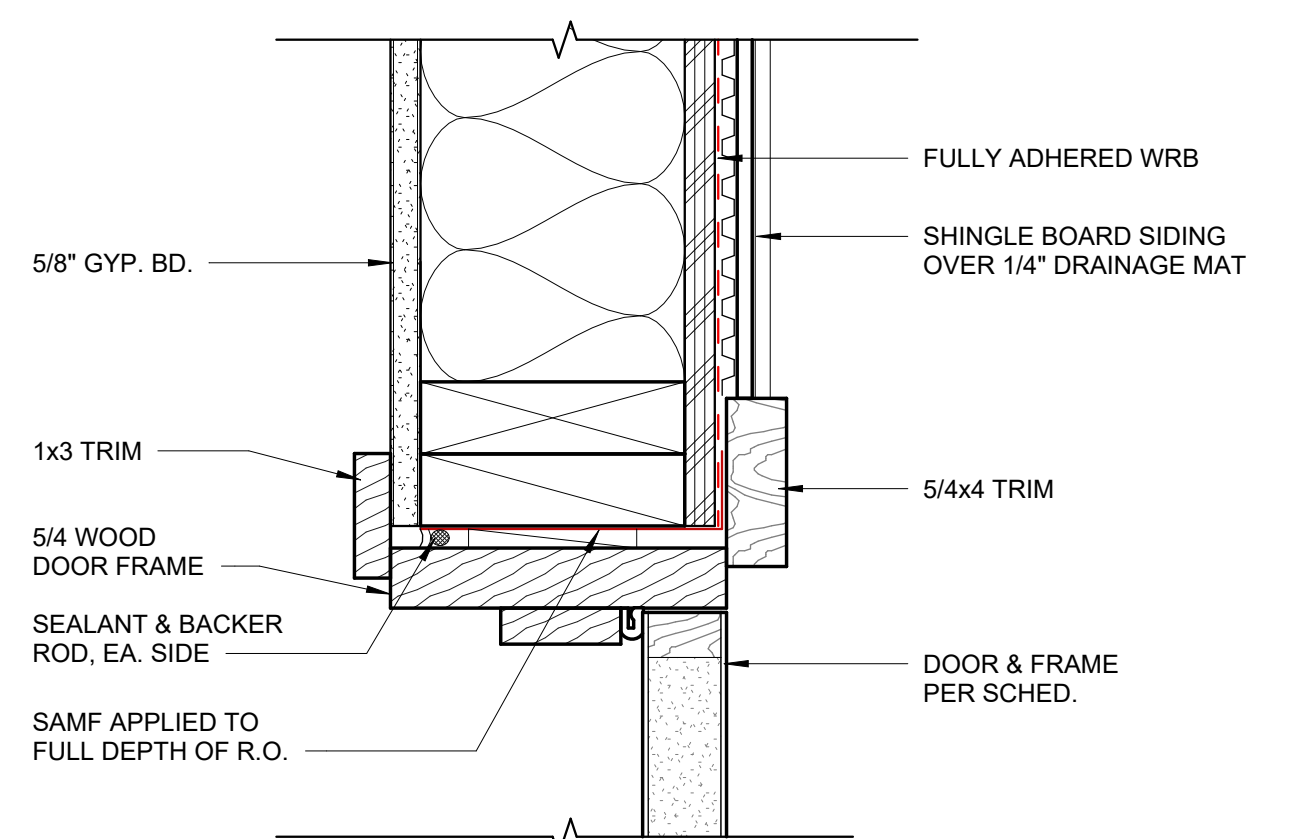
9 EXT. DOOR JAMB @ ENTRY  
3" = 1'-0"



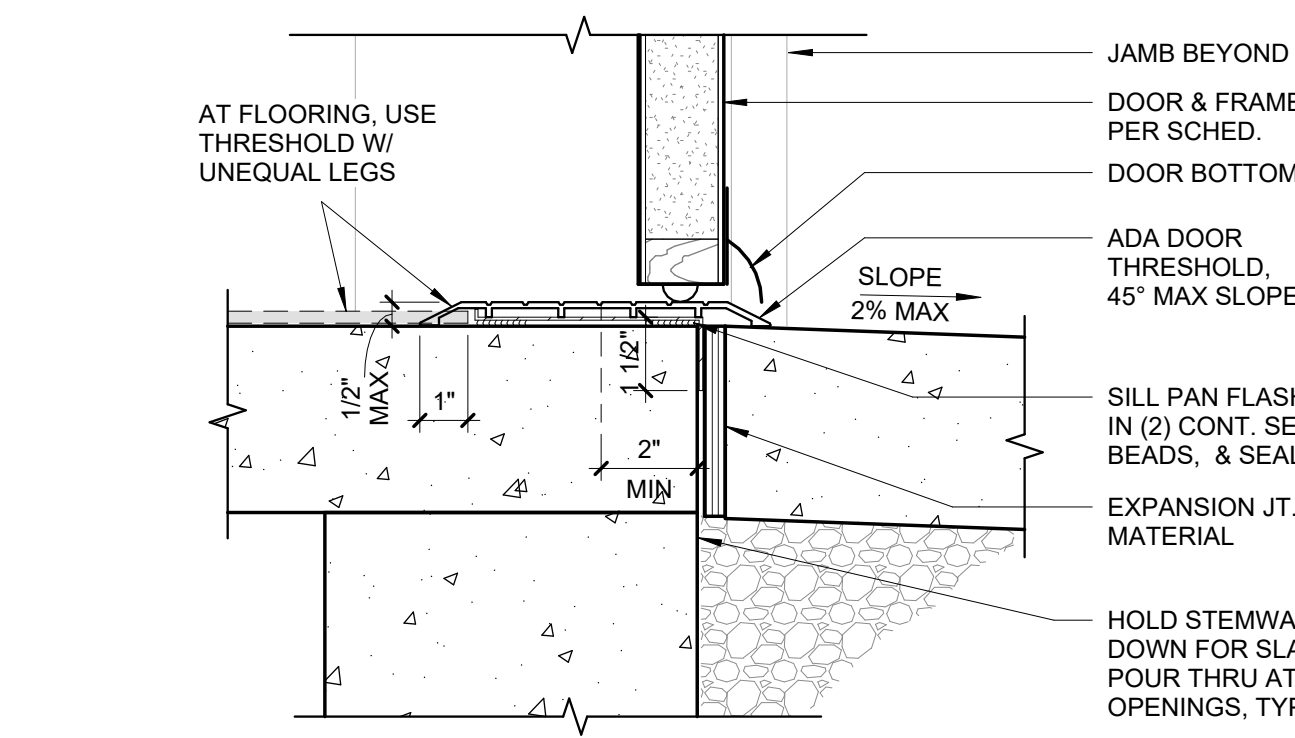
8 INT. DOOR HEAD (JAMB SIM.)  
3" = 1'-0"



12 EXT. DOOR HEAD @ SHINGLE SIDING  
3" = 1'-0"



13 EXT. DOOR JAMB @ SHINGLE SIDING  
3" = 1'-0"



14 EXT. DOOR THRESHOLD  
3" = 1'-0"



**CONSTRUCTION**

REVISIONS:

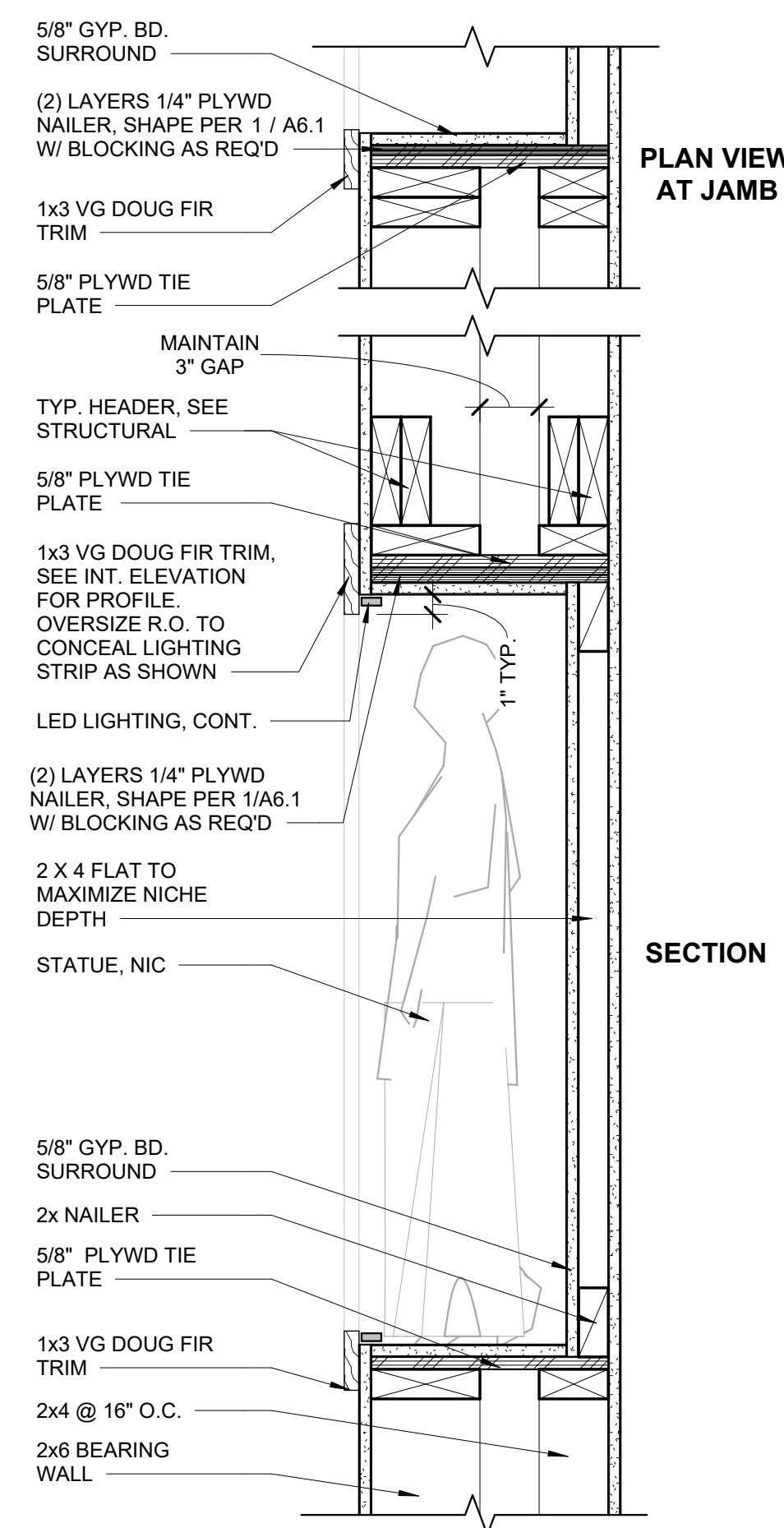
#	DATE	DESCRIPTION

DATE: JULY 2024

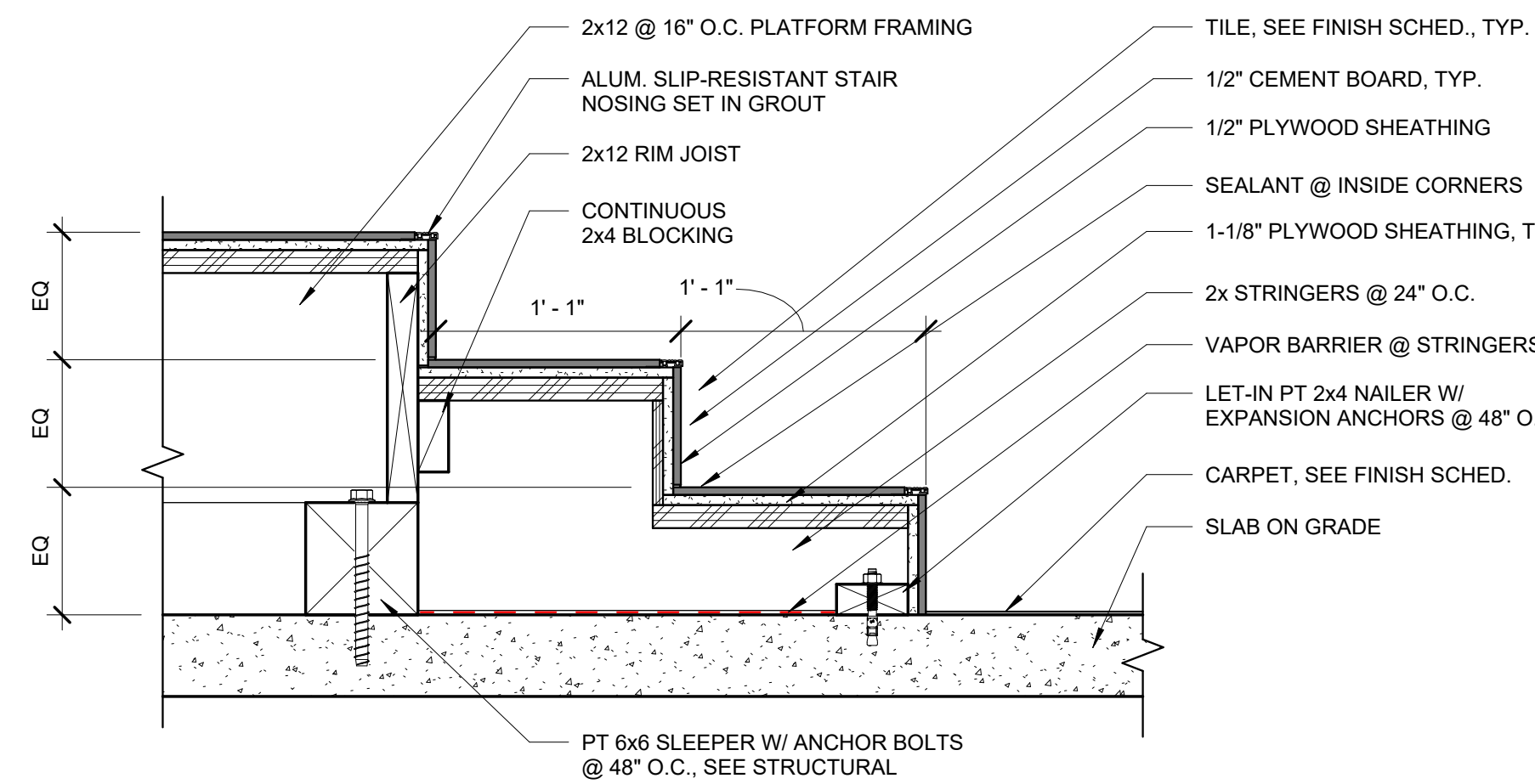
SHEET TITLE:  
**INTERIOR DETAILS**

**A5.5**

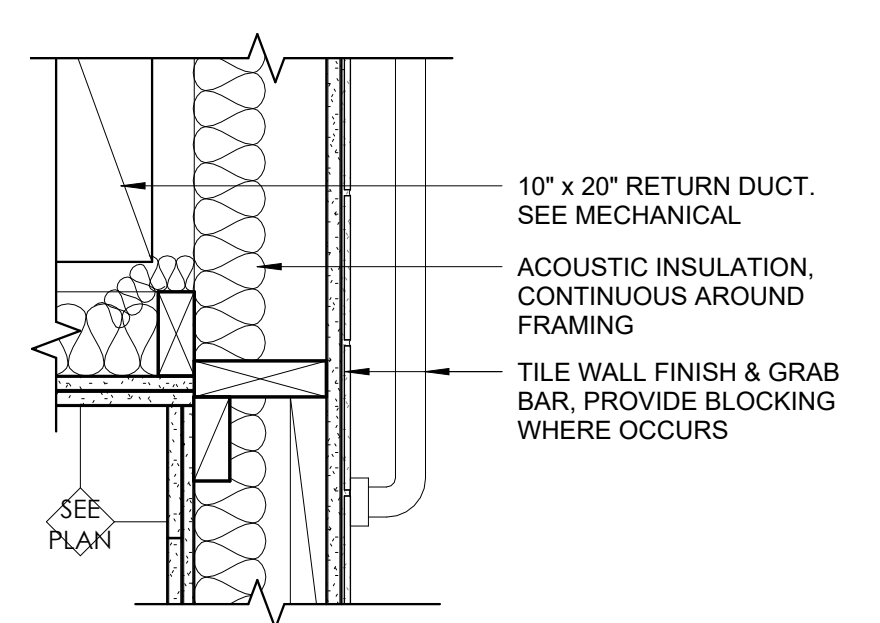
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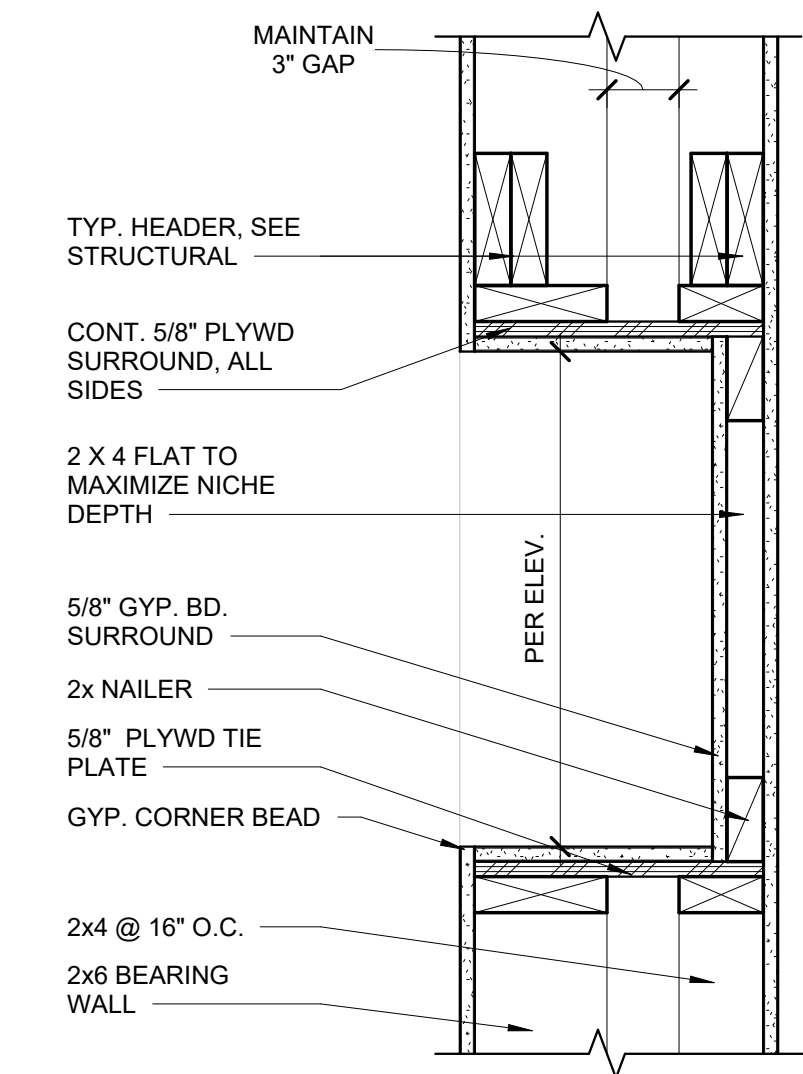
**15 STATUE NICHE**  
1 1/2" = 1'-0"



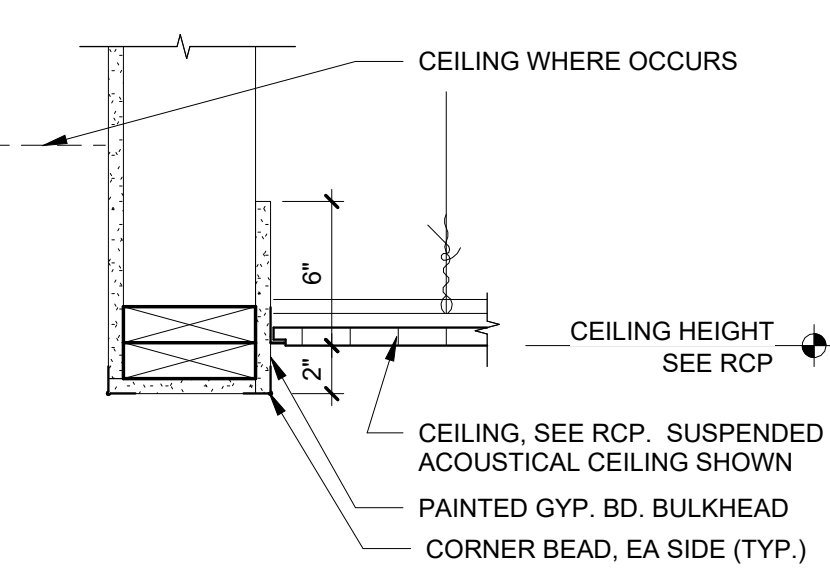
**12 SANCTUARY STEPS**  
1 1/2" = 1'-0"



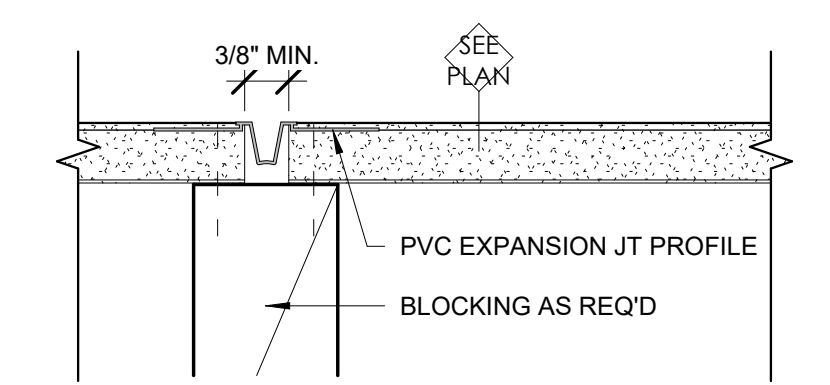
**14 MECH CHASE @ SOUND WALL**  
1 1/2" = 1'-0"



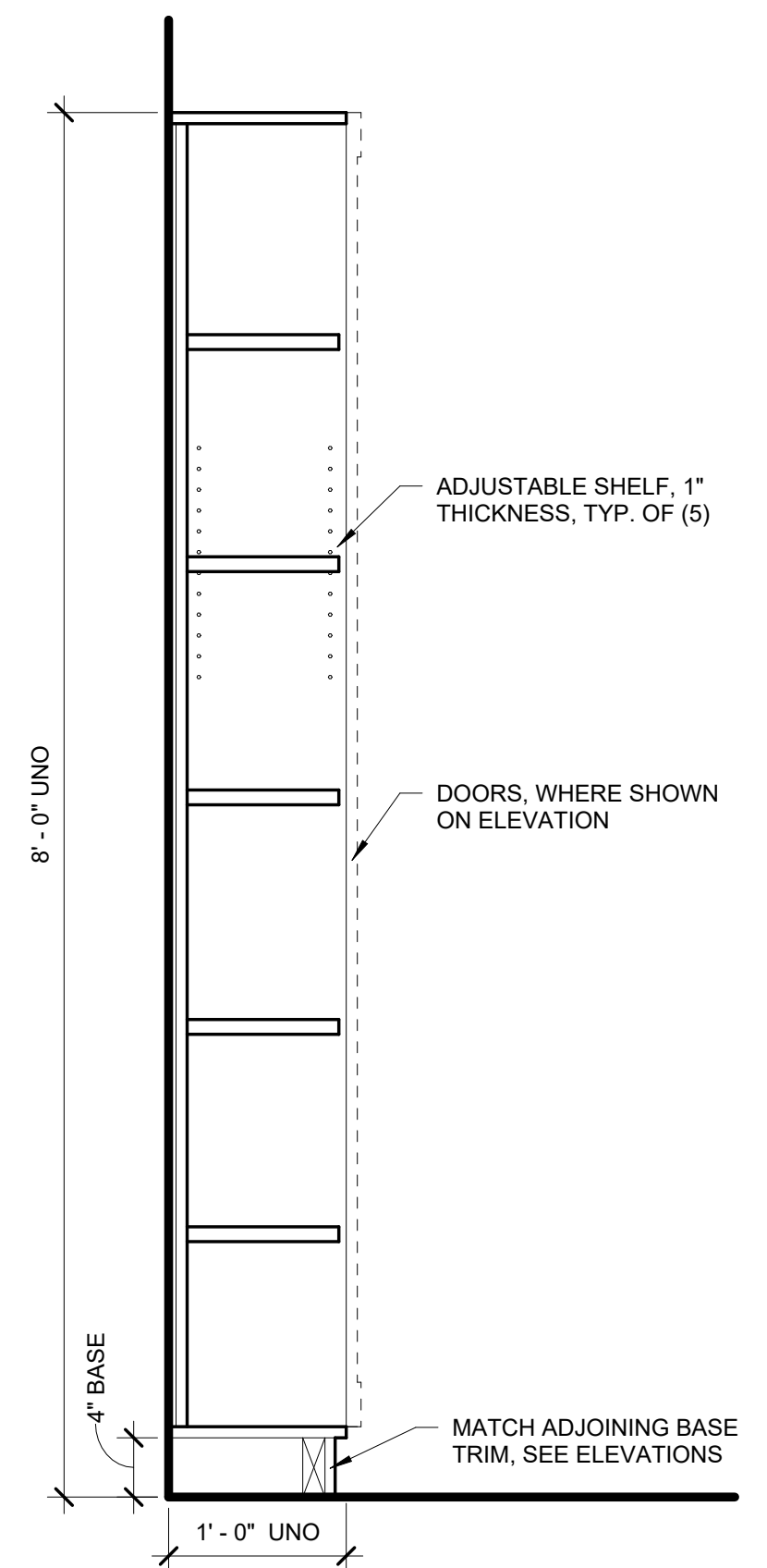
**13 SUBWOOFER NICHE**  
1 1/2" = 1'-0"



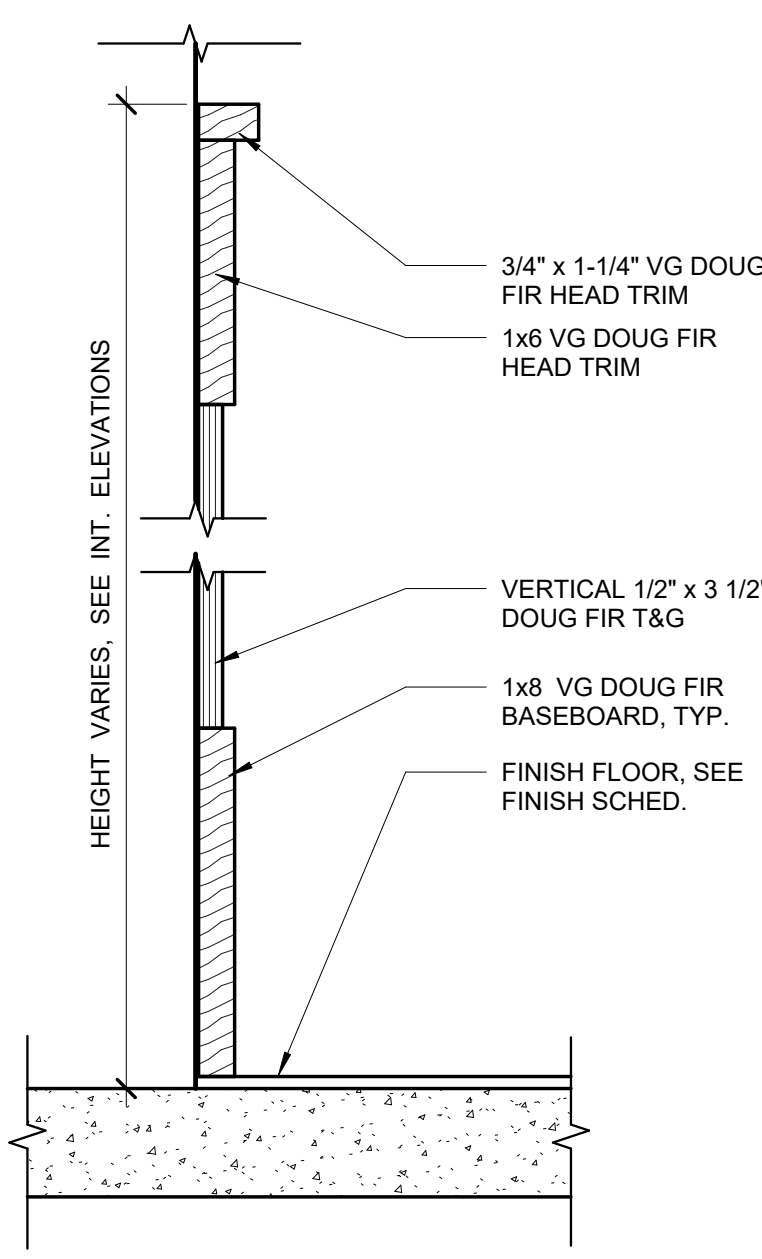
**8 CEILING BULKHEAD**  
1 1/2" = 1'-0"



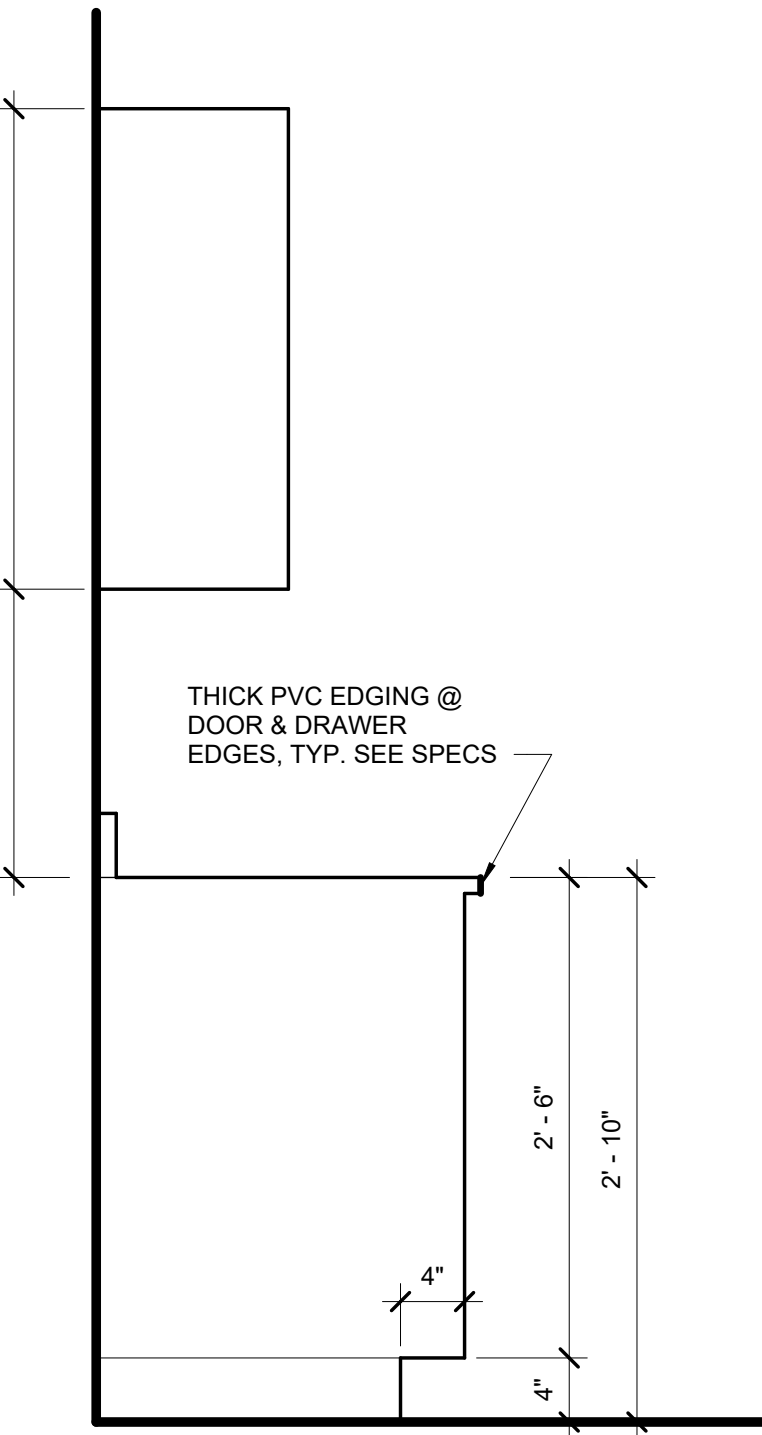
**9 GYP. BD. EXPANSION JT**  
6" = 1'-0"



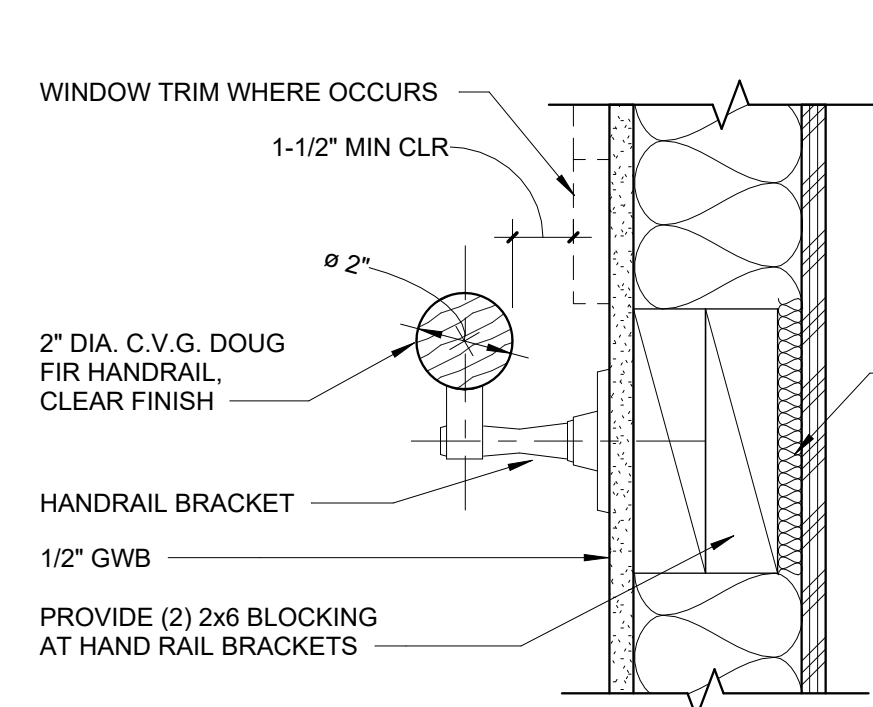
**10 TYP. BOOK SHELF**  
1" = 1'-0"



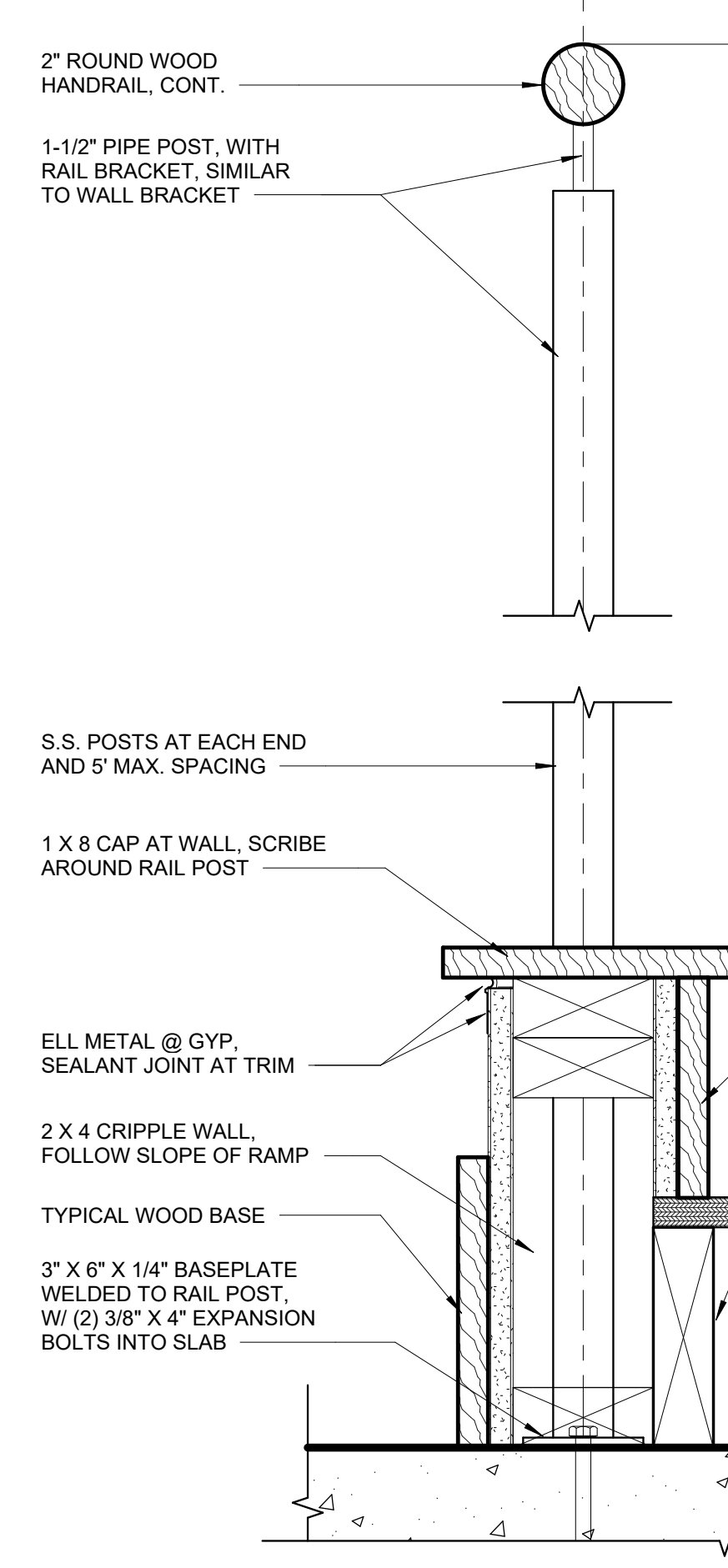
**7 TYP. WOOD PANELING**  
3" = 1'-0"



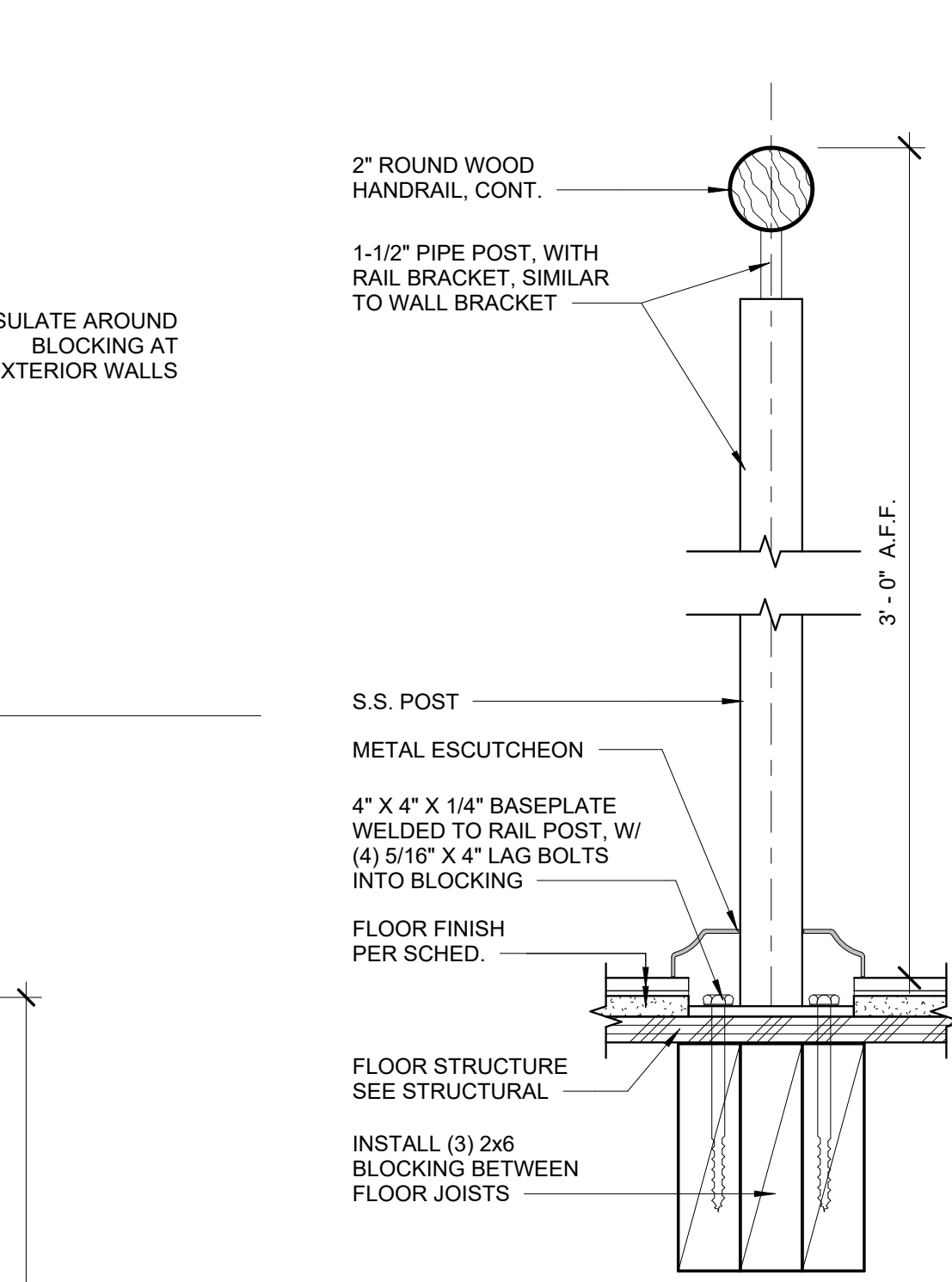
**6 TYP. CABINET HEIGHTS**  
1" = 1'-0"



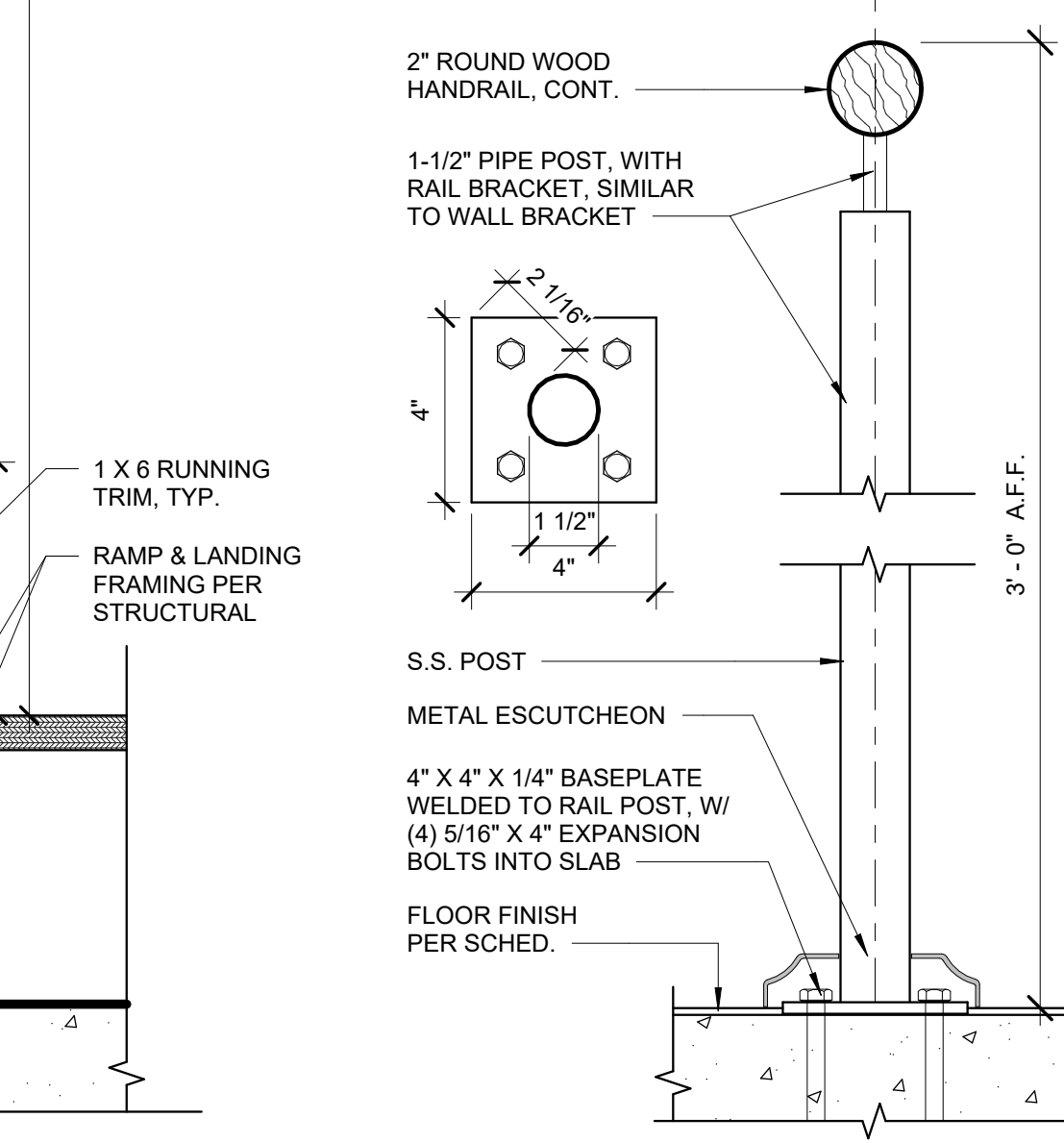
**4 HANDRAIL @ WALL**  
3" = 1'-0"



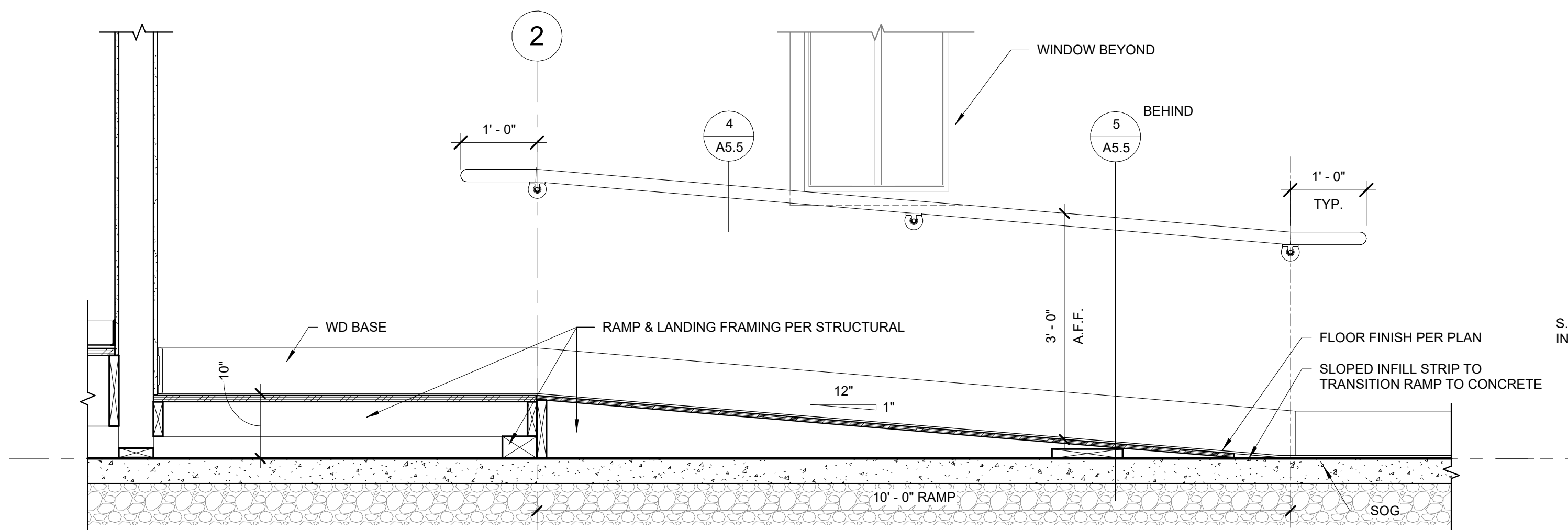
**5 RAMP HANDRAIL**  
3" = 1'-0"



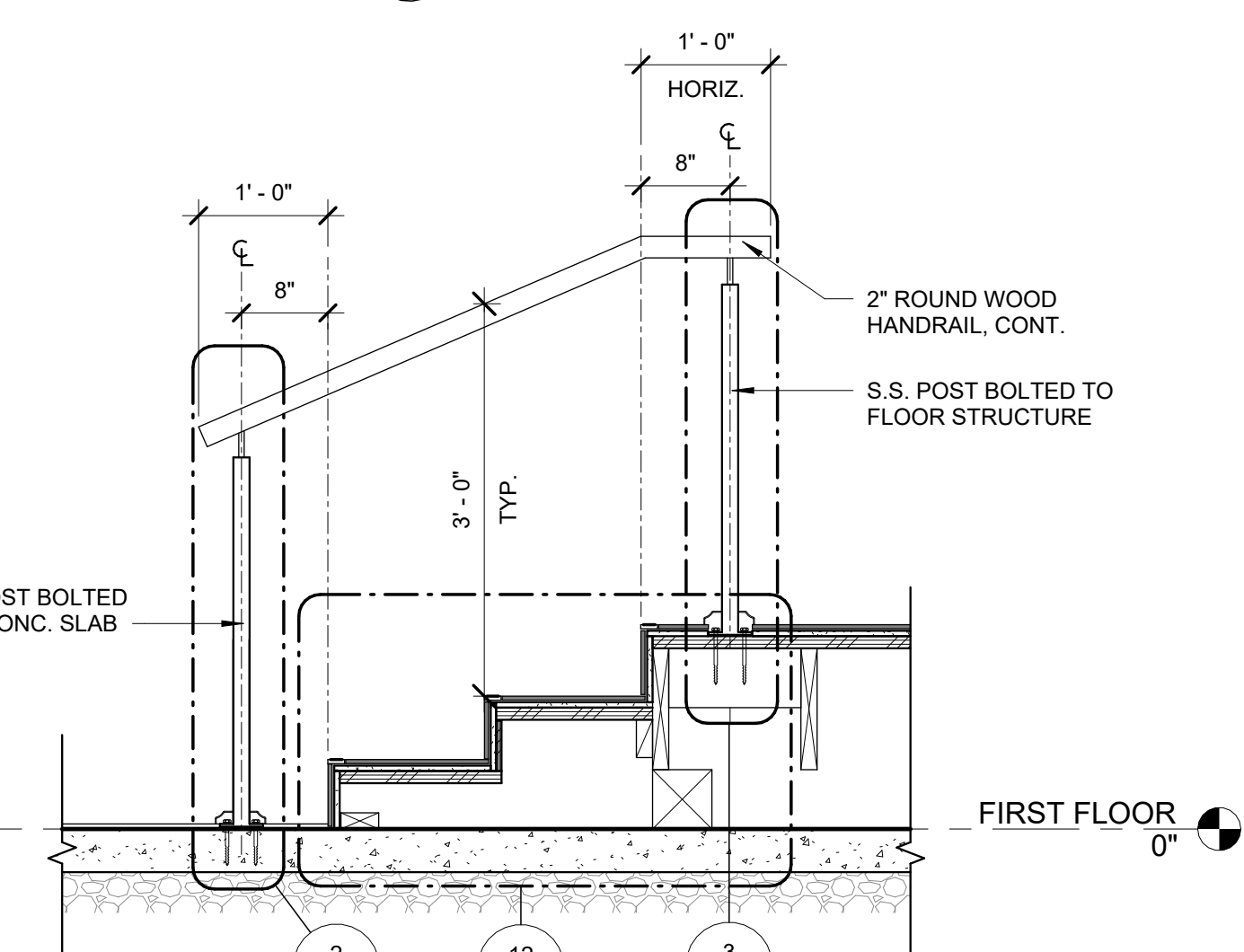
**3 UPPER SANCTUARY HANDRAIL**  
3" = 1'-0"



**2 LOWER SANCTUARY HANDRAIL**  
3" = 1'-0"



**11 LOWER RAMP**  
3/4" = 1'-0"



**1 SANCTUARY HANDRAIL**  
3/4" = 1'-0"



CONSTRUCTION

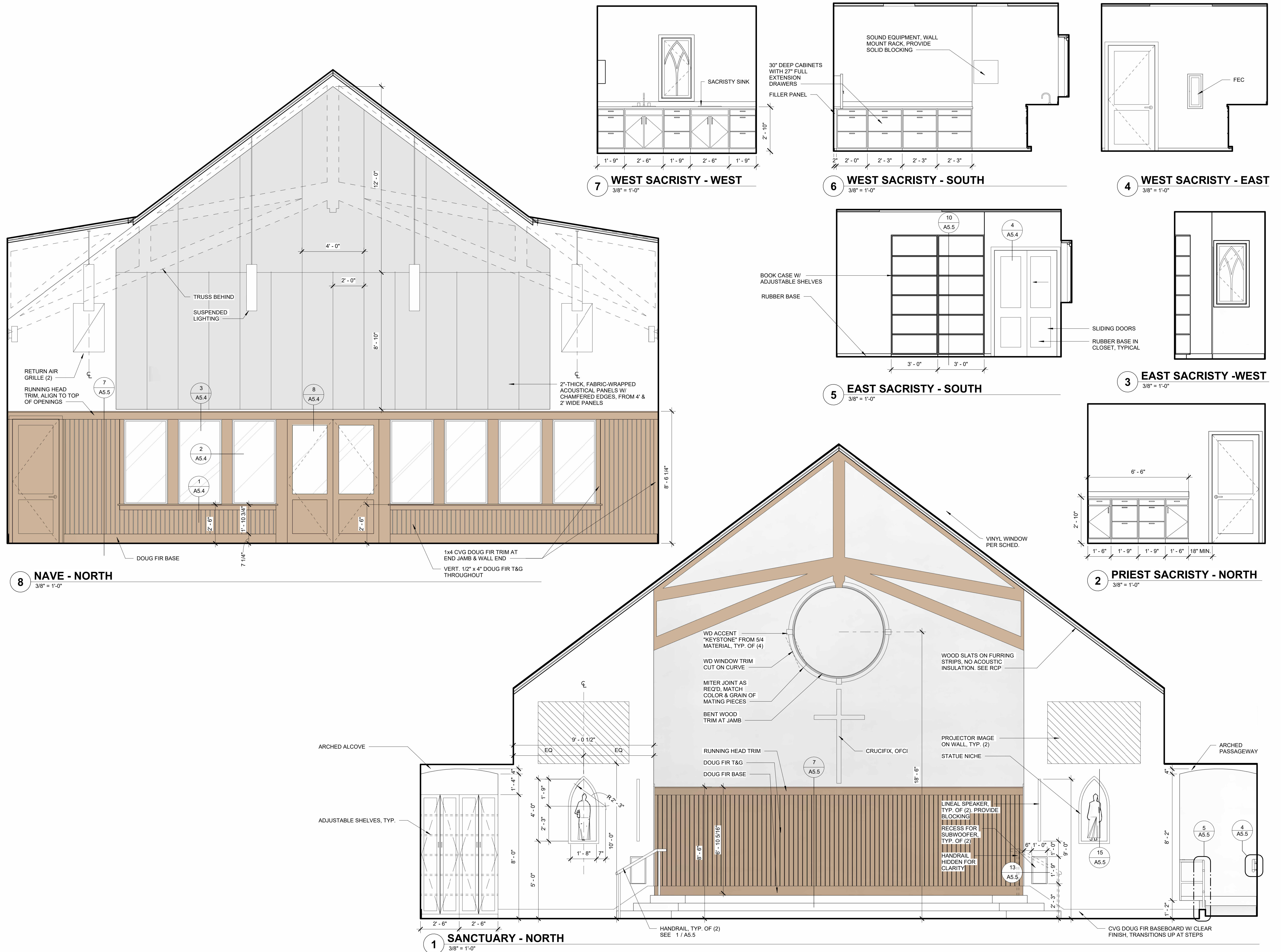
REVISIONS:  
# DATE DESCRIPTION

DATE: JULY 2024

SHEET TITLE:  
INTERIOR ELEVATIONS

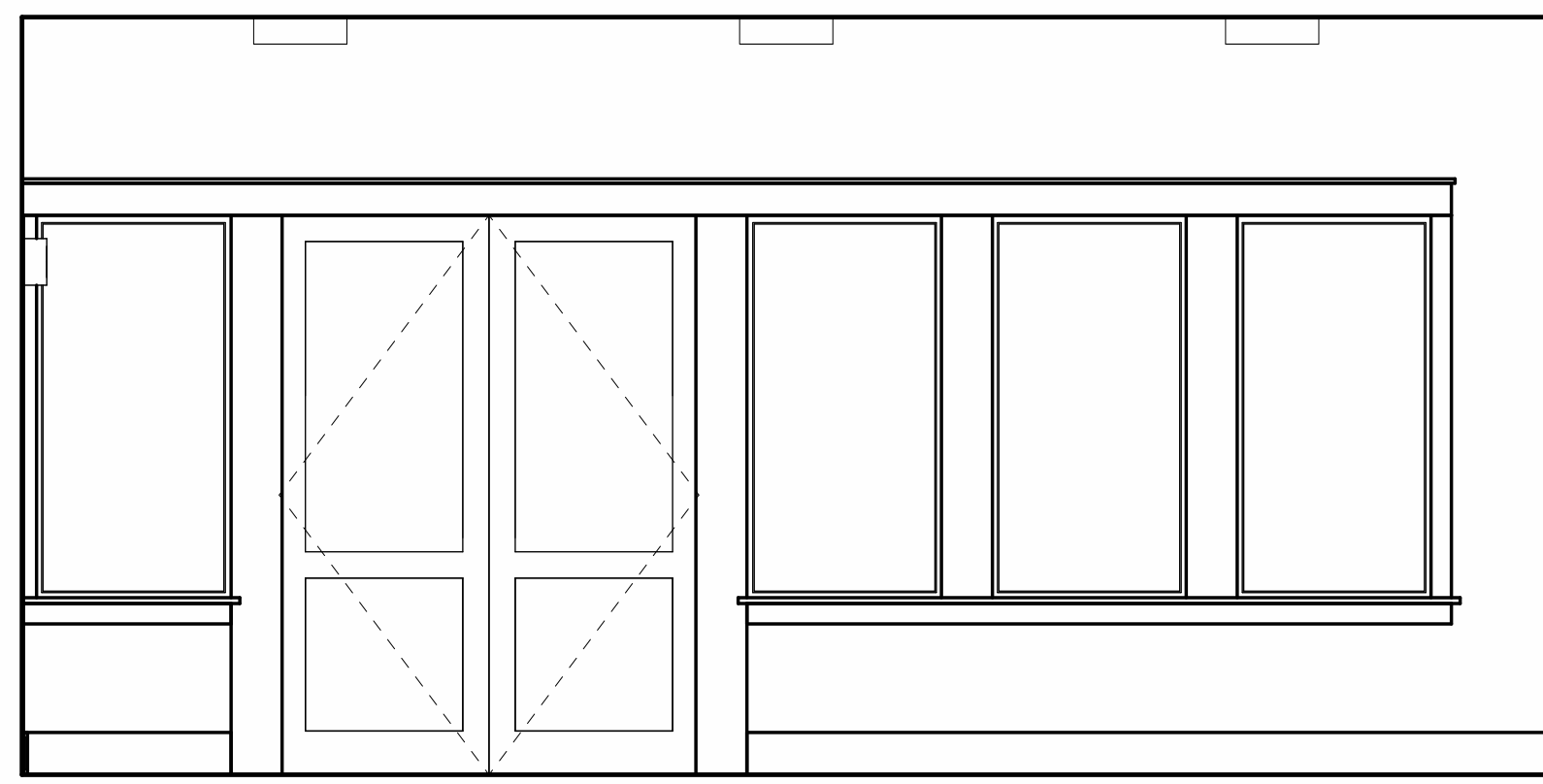
A6.1

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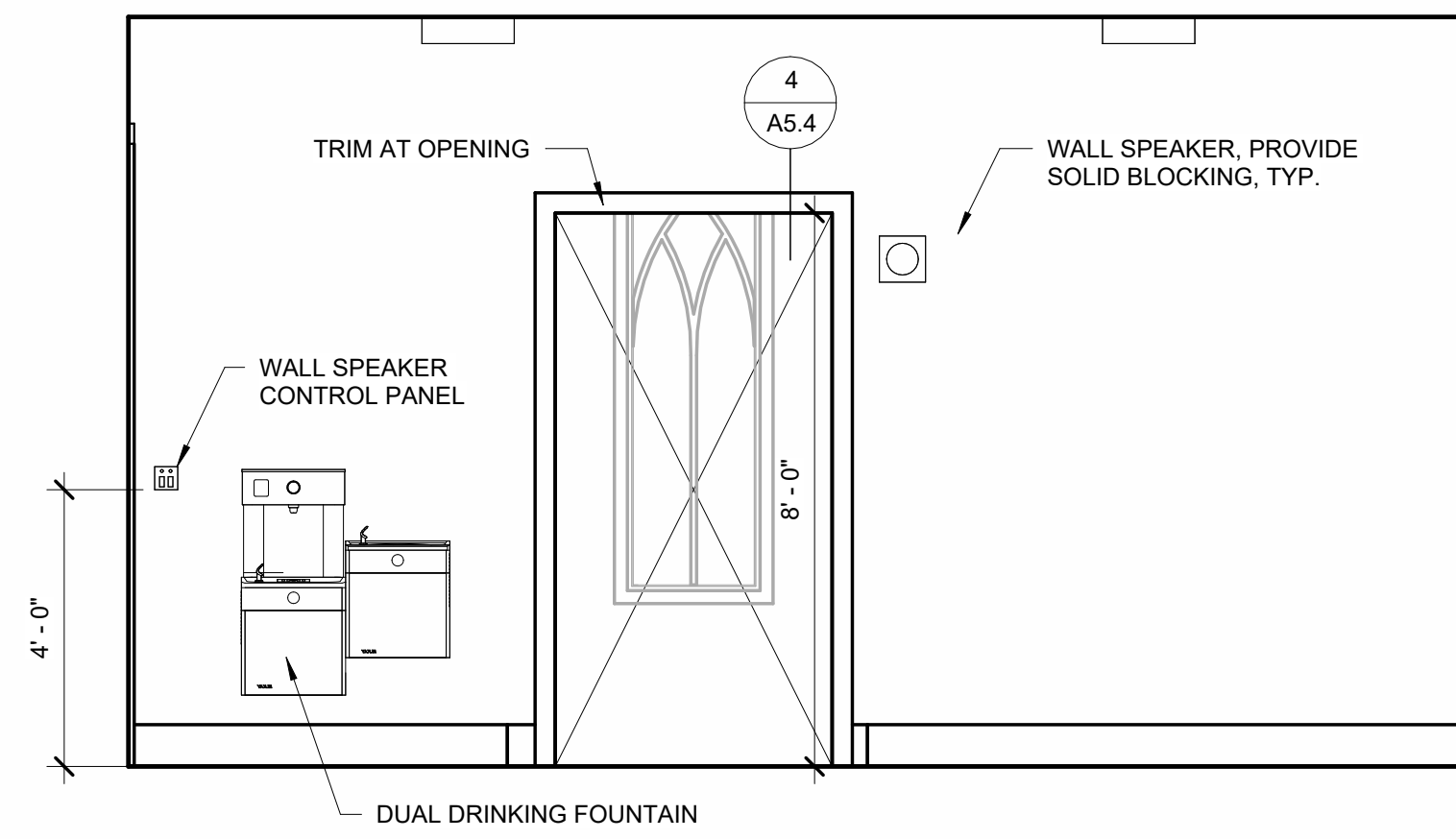


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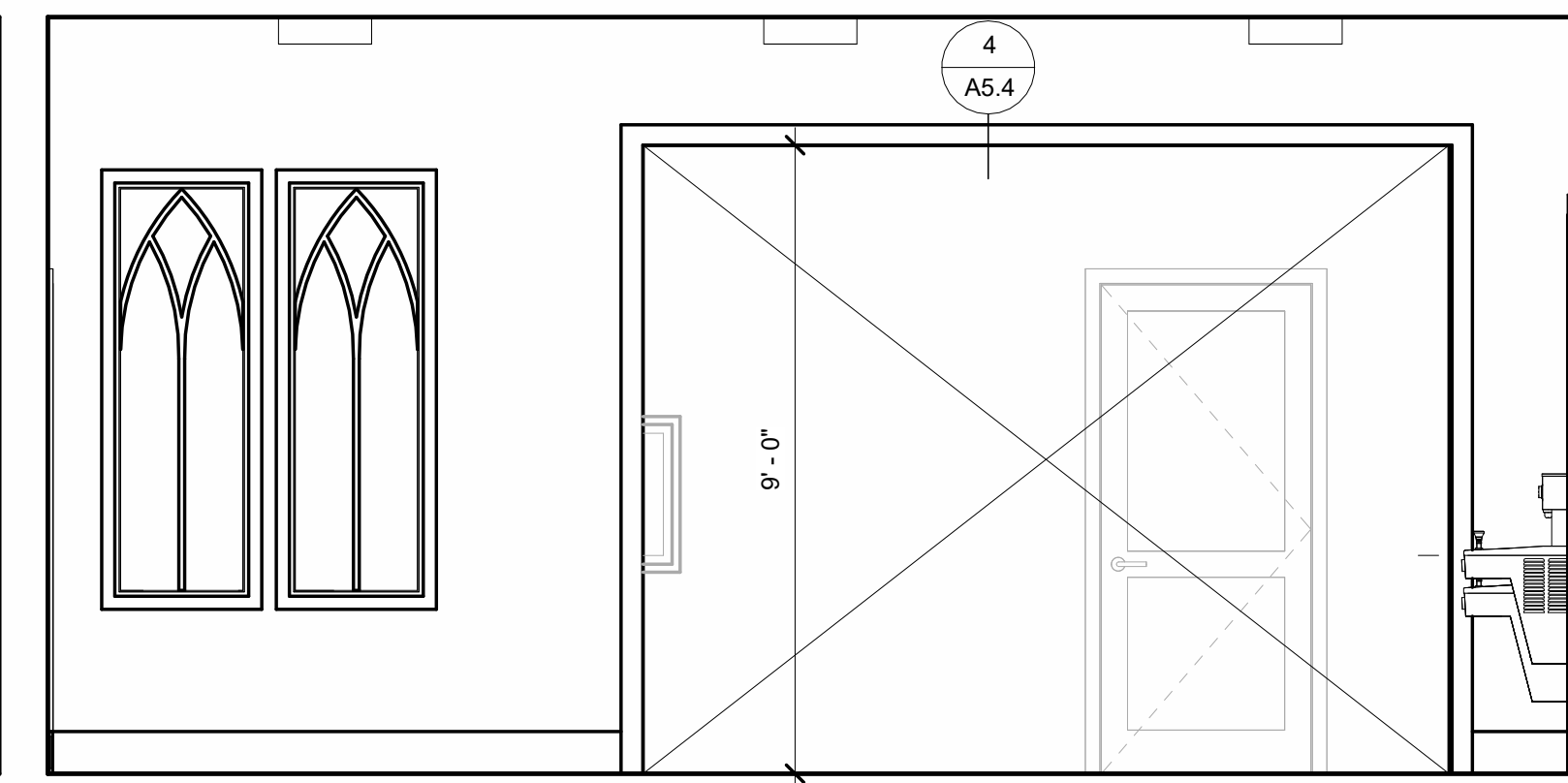




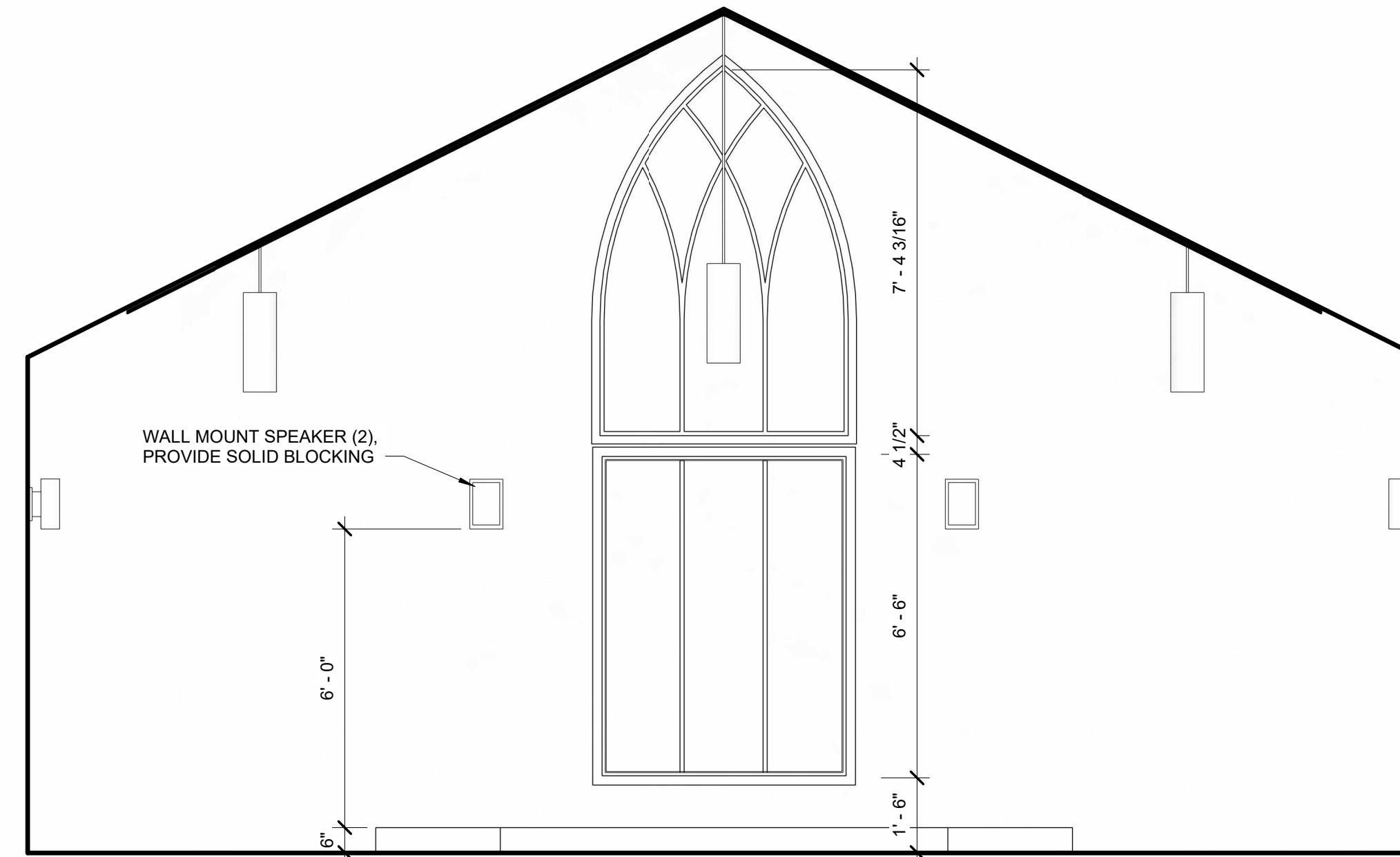
**3 NARTHEX - NORTH**  
3/8" = 1'-0"



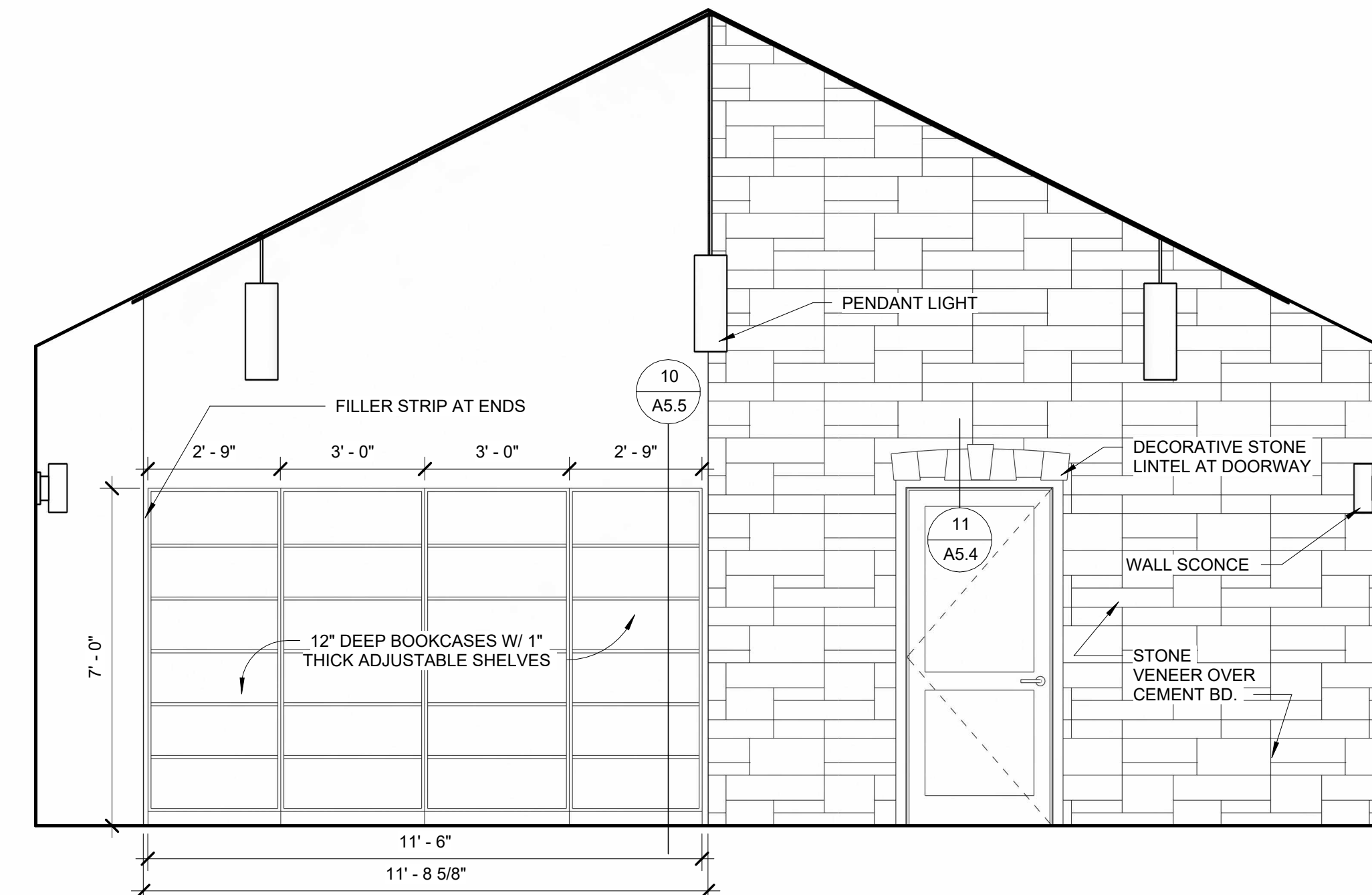
**4 NARTHEX - WEST**  
3/8" = 1'-0"



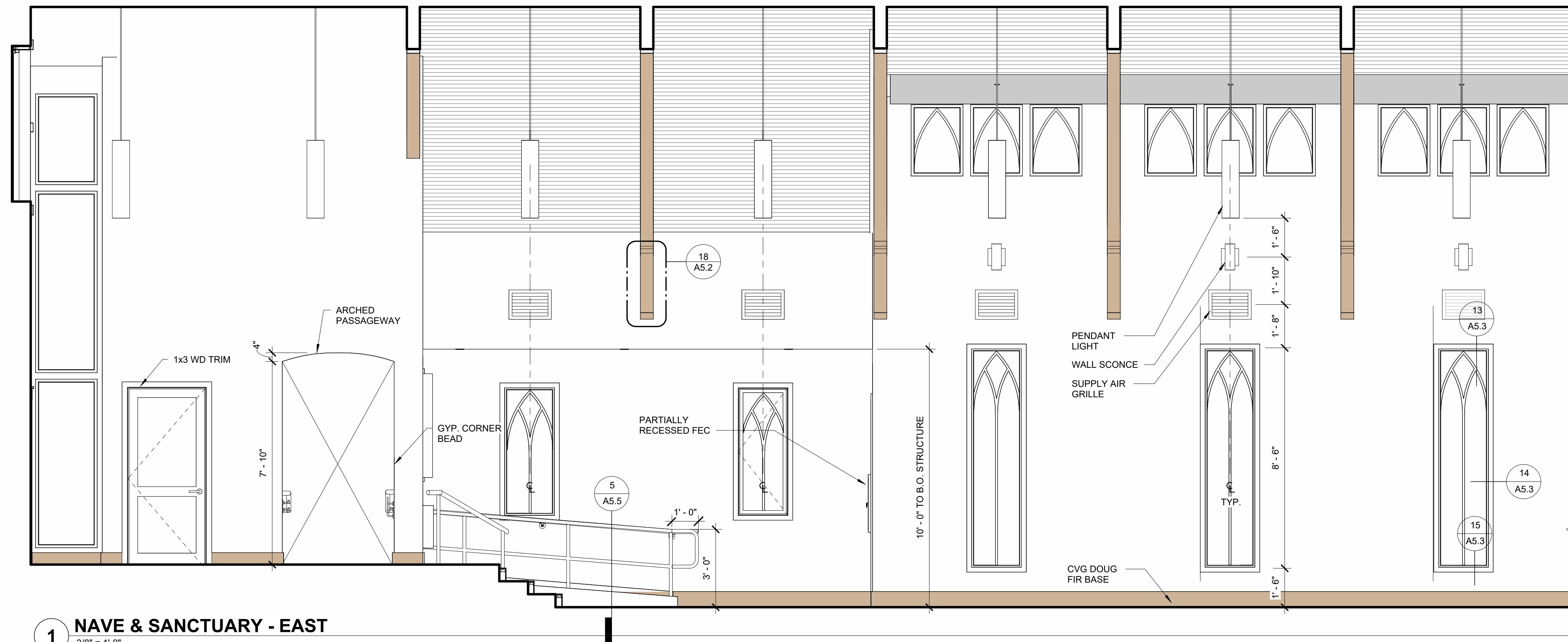
**5 NARTHEX - SOUTH**  
3/8" = 1'-0"



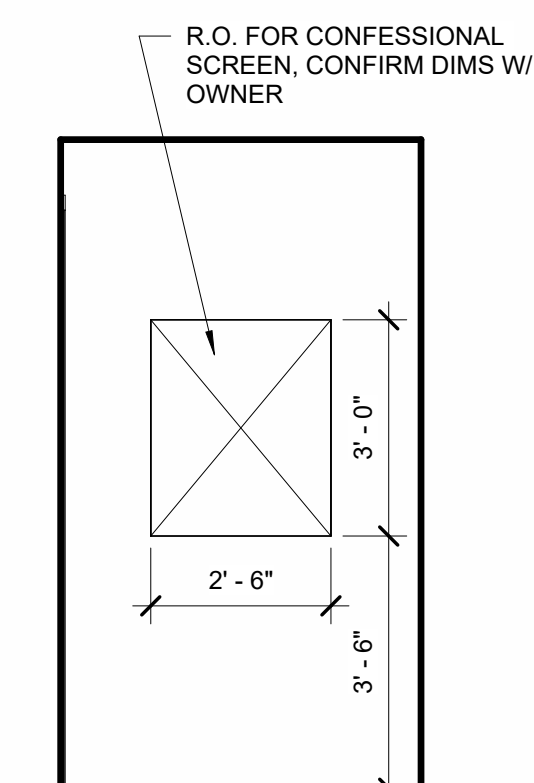
**6 CHAPEL - SOUTH**  
3/8" = 1'-0"



**2 CHAPEL - NORTH**  
3/8" = 1'-0"



**1 NAVE & SANCTUARY - EAST**  
3/8" = 1'-0"



**7 CONFESSIONAL**  
3/8" = 1'-0"

**CONSTRUCTION**

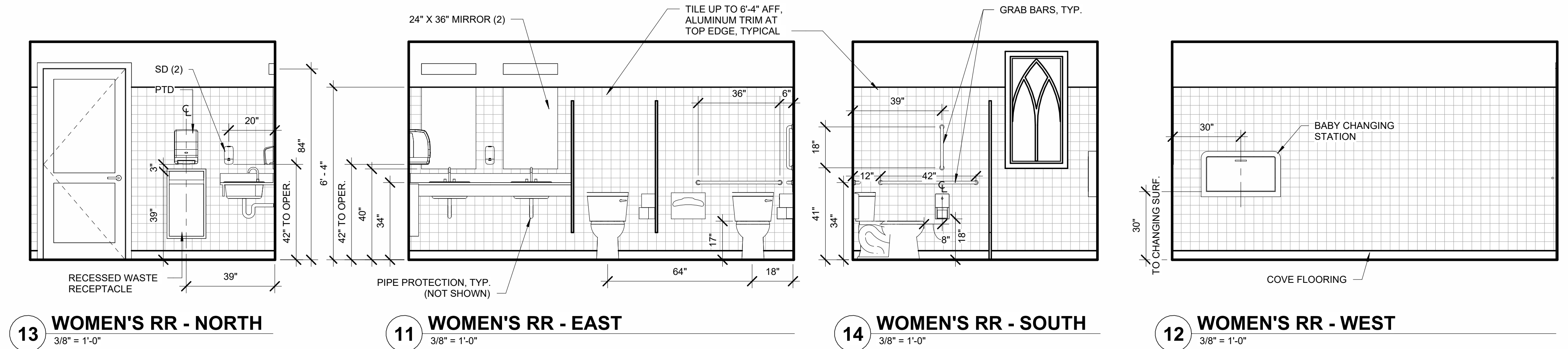
REVISIONS:  
# DATE DESCRIPTION

DATE: JULY 2024

SHEET TITLE:  
**INTERIOR ELEVATIONS**

**A6.2**



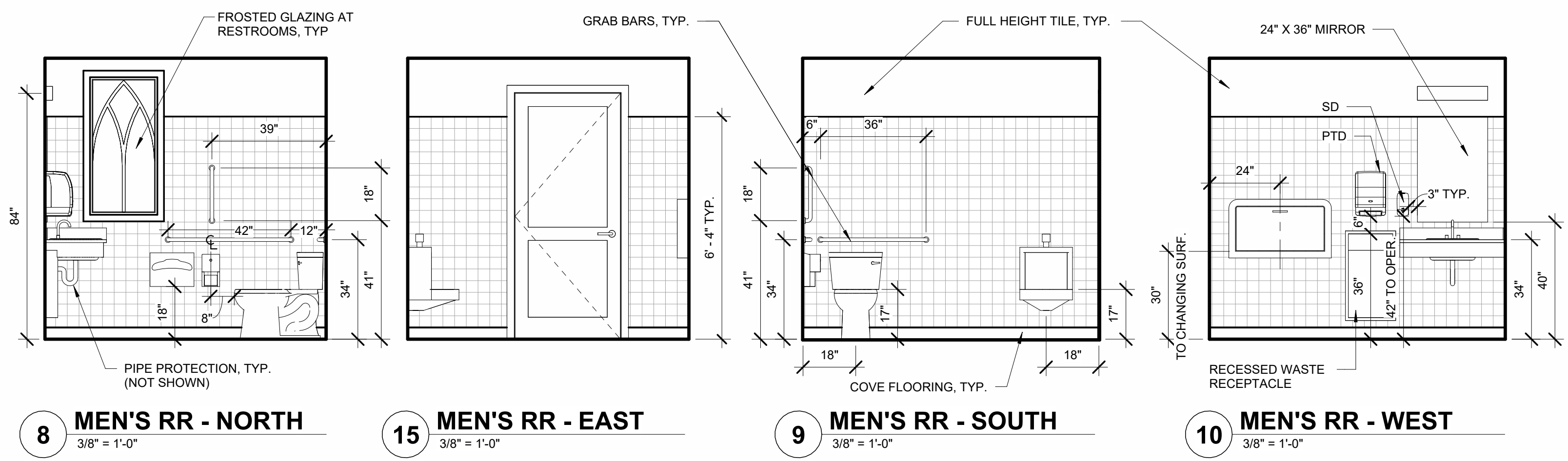


**13 WOMEN'S RR - NORTH**  
3/8" = 1'-0"

**11 WOMEN'S RR - EAST**  
3/8" = 1'-0"

**14 WOMEN'S RR - SOUTH**  
3/8" = 1'-0"

**12 WOMEN'S RR - WEST**  
3/8" = 1'-0"

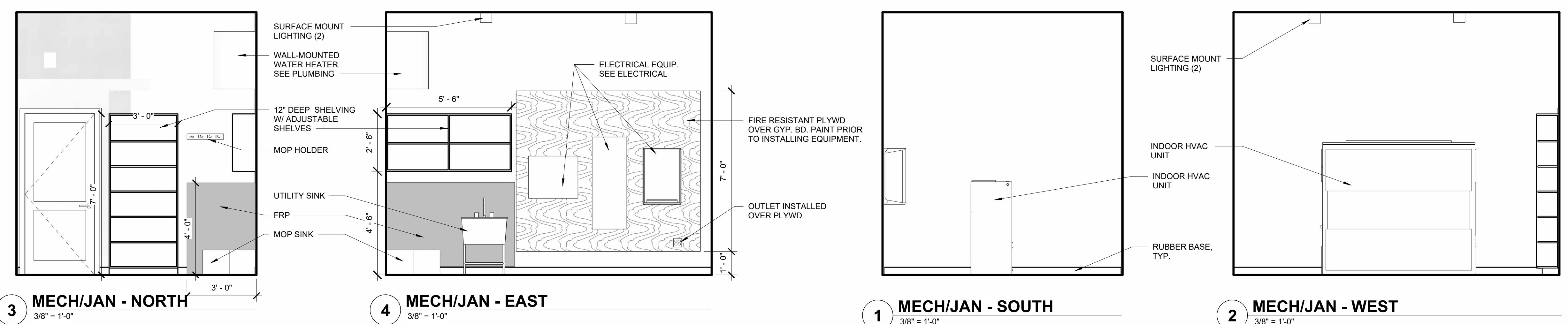


**8 MEN'S RR - NORTH**  
3/8" = 1'-0"

**15 MEN'S RR - EAST**  
3/8" = 1'-0"

**9 MEN'S RR - SOUTH**  
3/8" = 1'-0"

**10 MEN'S RR - WEST**  
3/8" = 1'-0"



**3 MECH/JAN - NORTH**  
3/8" = 1'-0"

**4 MECH/JAN - EAST**  
3/8" = 1'-0"

**1 MECH/JAN - SOUTH**  
3/8" = 1'-0"

**2 MECH/JAN - WEST**  
3/8" = 1'-0"

PROJECT NO.: 23.75

**HOLY TRINITY CATHOLIC CHURCH**

335 OREGON AVE. SE  
BANDON, OREGON 97411

**CONSTRUCTION**

REVISIONS:

#	DATE	DESCRIPTION

DATE: JULY 2024

SHEET TITLE:  
**INTERIOR ELEVATIONS**

**A6.3**



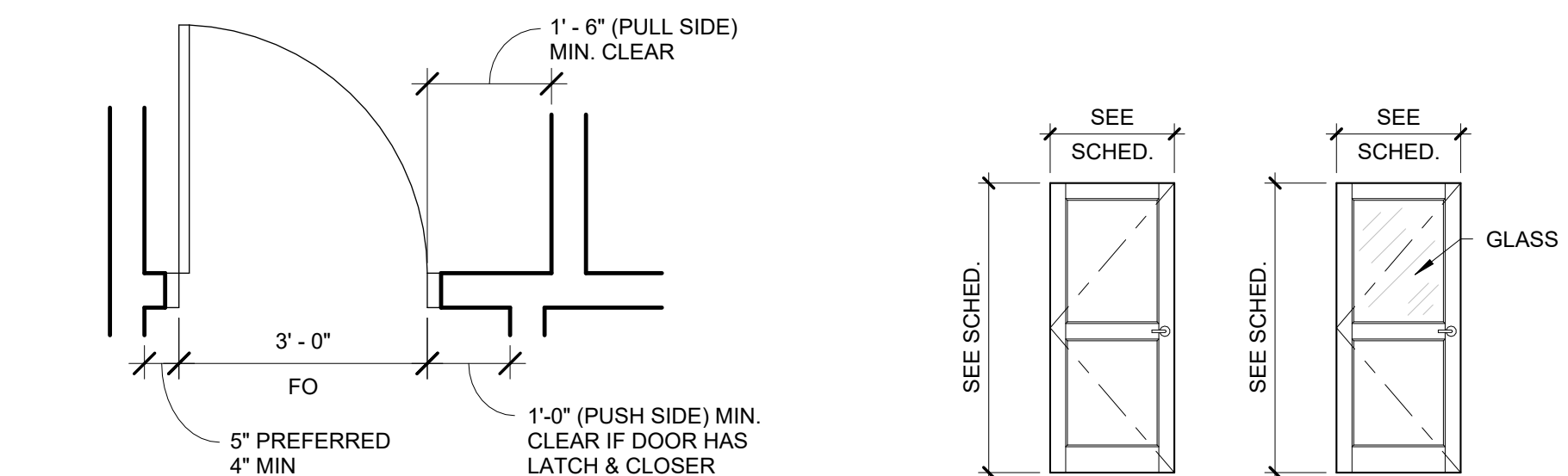
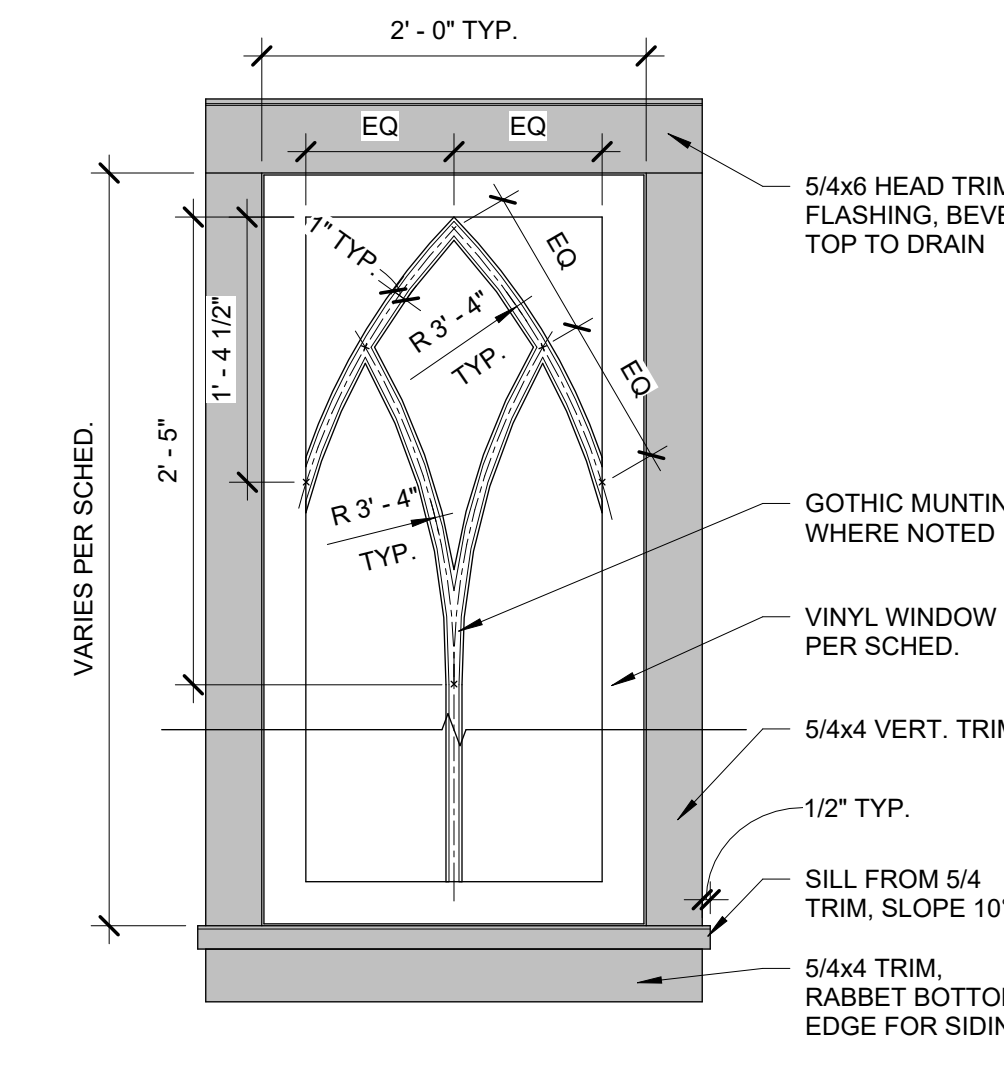
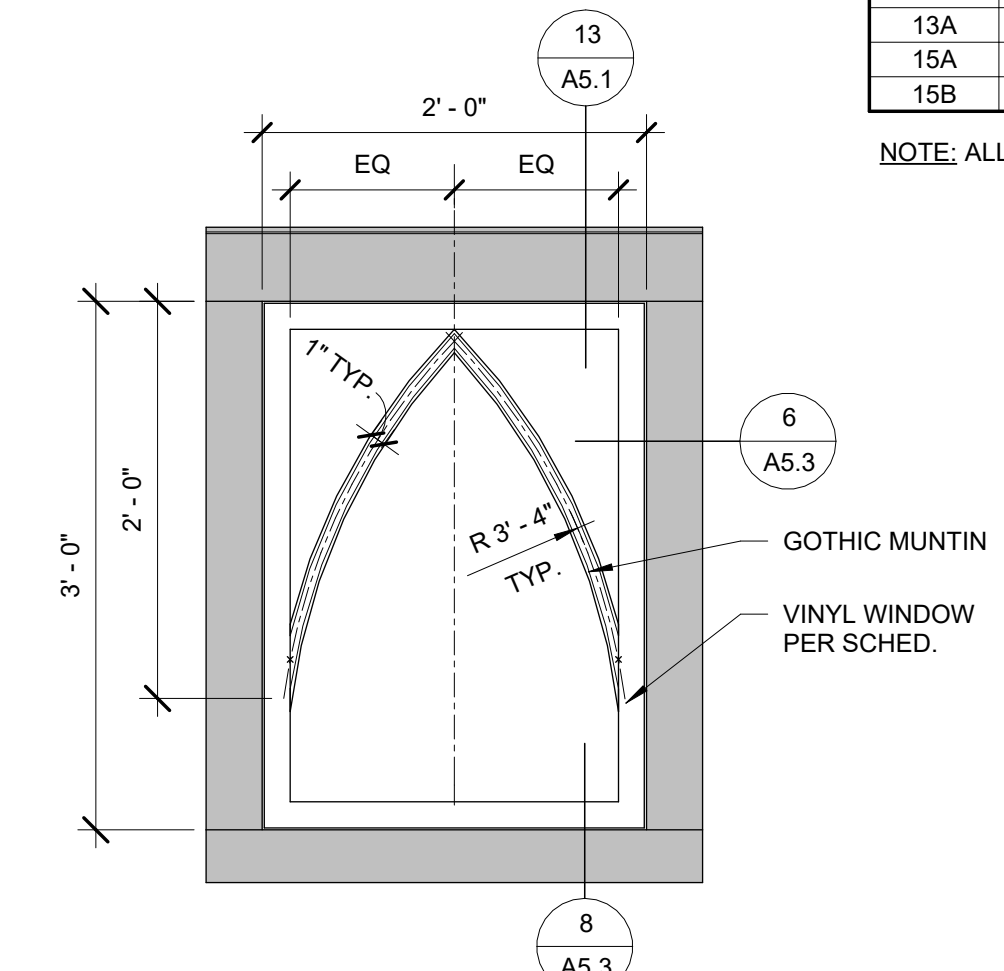
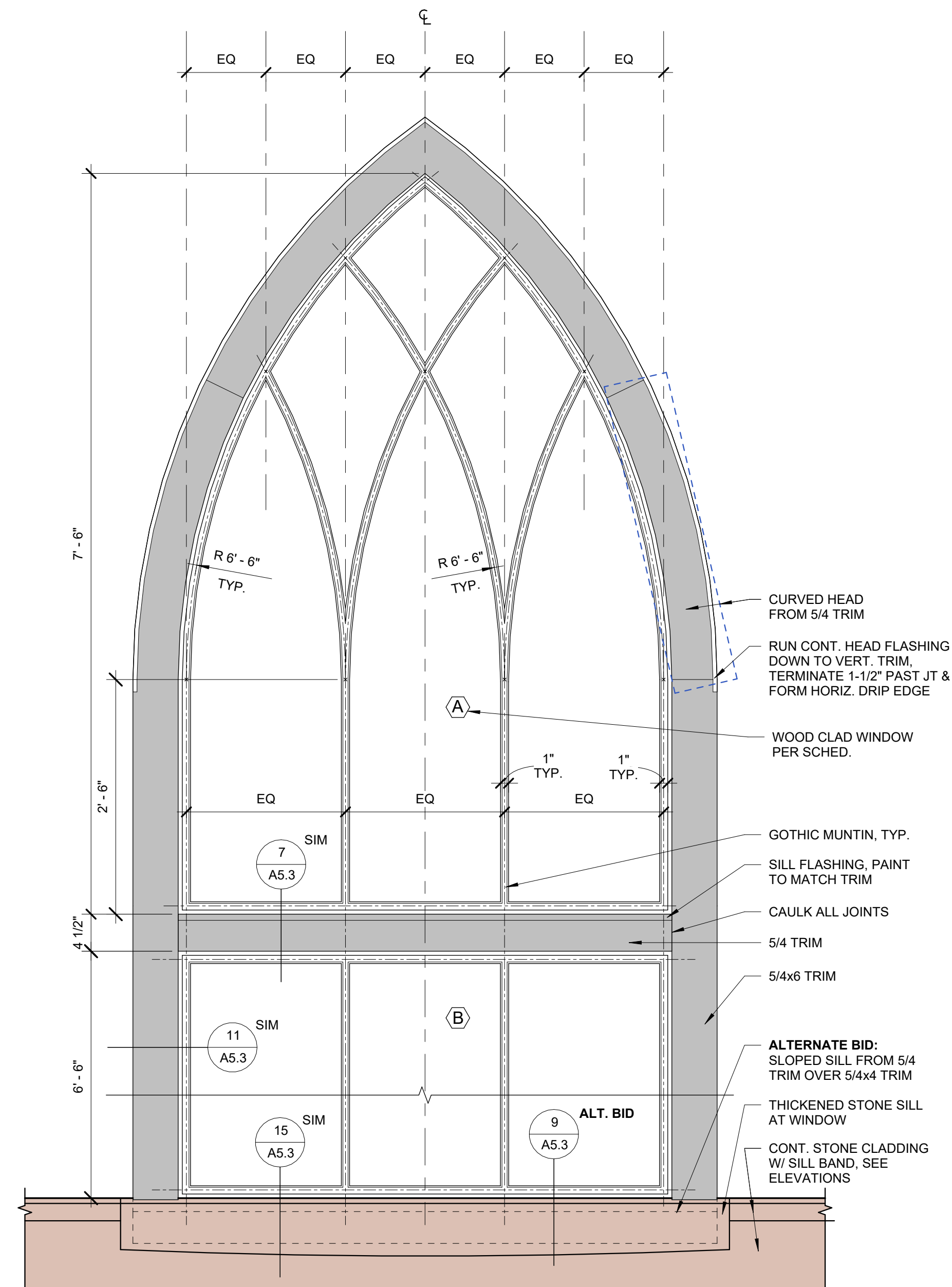
ROOM FINISH SCHEDULE										
ROOM NAME	ROOM NO.	FLOOR FINISH	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	CEILING HGT	NOTES
CHAPEL	01	CPT	WD	LEP	LEP	LEP	LEP	LEP/AC PANELS	VARIABLES	
ENTRY	02	WOT	WD	LEP	LEP	LEP	LEP	LEP	41'	BELL TOWER
NARTHEX	03	CPT	WD	LEP	LEP	LEP	LEP	GYP. BD. / ACT	VARIABLES	
SERVICE HALL	4	LVT	WD	LEP	--	LEP	LEP	SUS. AC.	9'-0"	
MECH. / JAN.	05	RES	RBR	LEP	LEP/PLY	LEP	LEP	LEP / RES. CHANNEL / INSUL.	11'-6"	
WOMEN	06	RES	COVE	TILE	TILE	TILE	TILE	LEP	8'-0"	
MEN	07	RES	COVE	TILE	TILE	TILE	TILE	LEP	8'-0"	
CRY ROOM	08	CPT	WD	LEP	LEP	LEP	LEP	SUS. AC.	9'-0"	
PRIEST SACRISTY	09	CPT	WD	LEP	LEP	LEP	LEP	SUS. AC.	9'-0"	
CONFESS.	10	CPT	WD	LEP	LEP	LEP	LEP	LEP	8'-0"	
CONFESS.	11	CPT	WD	LEP	LEP	LEP	LEP	LEP	8'-0"	
NAVE	12	CPT	WD	LEP	LEP	LEP	LEP	AC. WD PANEL / LEP	VARIABLES	CPT ON RAMPS/LANDING
CHOIR	12A	CPT	WD	LEP	--	LEP	LEP	LEP	10'-0"	
EAST EXIT	12B									
WEST SACRISTY	13	LVT	RBR	LEP	LEP	LEP	LEP	SUS. AC.	8'-0"	
SANCTUARY	14	TILE	WD	LEP/WD PANEL	LEP	LEP	LEP	LEP	VARIABLES	
EAST SACRISTY	15	LVT	RBR	LEP	LEP	LEP	LEP	SUS. AC.	8'-0"	

FINISH ABBREVIATIONS

LEP	LATEX ENAMEL PAINT
TILE	PORCELAIN/CERAMIC/QUARRY TILE
CPT	CARPET
WOT	WALK-OFF CARPET TILE
RES	RESILIENT SHEET FLOORING
LVT	RESILIENT TILE (LUXURY VINYL TILE)
RBR	RESILIENT BASE, RUBBER
WD	WOOD
COVE	COVE BASE
SUS. AC.	SUSPENDED ACOUSTICAL CEILING
PLY	PRE-PAINTED, FIRE TREATED PLYWOOD
T&G	CVG DOUGLAS FIR TONGUE & GROOVE

DOOR SCHEDULE										
DOOR NO.	ROOM NAME	SIZE (WxH)	TYPE	DOOR MATERIAL	FRAME MATERIAL	HARDWARE GROUP	DETAILS (SHEET A5.4)			NOTES
							HEAD	JAMB	THRESHOLD	
01	CHAPEL	3'-0" X 7'-0"	B	WD / GLASS	WD	HW-20	11	11	-	
2A	ENTRY	7'-0" X 8'-6"	A	WD	WD	HW-17	10	9	14	PAIR, EXTERIOR DOORS
3A	NAVE	6'-0" X 8'-0"	B	WD / GLASS	WD	HW-11A	8	8	-	PAIR, SOUND DOORS, INSULATED GLASS
5	MECH. / JAN.	3'-0" X 7'-0"	A	WD	WD	HW-20A	8	8	-	SOUND DOOR
6	WOMEN	3'-0" X 7'-0"	A	WD	WD	HW-1D	8	8	-	
7	MEN	3'-0" X 7'-0"	A	WD	WD	HW-5	8	8	-	
8	CRY ROOM	3'-0" X 7'-0"	B	WD / GLASS	WD	HW-9	8	8	-	SOUND DOOR, INSULATED GLASS
9A	PRIEST SACRISTY	3'-0" X 7'-0"	A	WD	WD	HW-10	8	8	-	
9B	CONFESS.	3'-0" X 7'-0"	A	WD	WD	HW-2	8	8	-	
9C	PRIEST SACRISTY	5'-0" X 6'-8"	A	WD	WD	-	4	4	-	1-3/8"-THICK BI-PARTING SLIDING CLOSET DOOR, PROVIDE TRACK & PULL HARDWARE
9D	PRIEST SACRISTY	5'-0" X 6'-8"	A	WD	WD	-	4	4	-	1-3/8"-THICK BI-PARTING SLIDING CLOSET DOOR, PROVIDE TRACK & PULL HARDWARE
11	CONFESS.	3'-0" X 8'-0"	A	WD	WD	HW-9	8	8	-	SOUND DOOR
12B	EAST EXIT	3'-0" X 8'-0"	A	WD	WD	HW-15	12	13	14	EXTERIOR DOOR
13A	WEST SACRISTY	3'-0" X 7'-0"	A	WD	WD	HW-20	8	8	-	
15A	EAST SACRISTY	3'-0" X 7'-0"	A	WD	WD	HW-20	8	8	-	
15B	EAST SACRISTY	4'-0" X 7'-0"	A	WD	WD	-	4	4	-	1-3/8"-THICK BI-PARTING SLIDING CLOSET DOOR, PROVIDE TRACK & PULL HARDWARE

NOTE: ALL DOORS TO BE RAIL & STILE TYPE.



WINDOW SCHEDULE						
MARK	SIZE (WxH)	COUNT	TYPE	NOTES		
A	5'-4" x 2'-6"	1	FIXED, WOOD CLAD	GOTHIC ARCHED WINDOW, W/ GOthic CONFIGURED GRIDS, SEE ELEVATION		
B	5'-0" x 7'-6"	1	FIXED, WOOD CLAD	GRIDS AS SHOWN		
C	2'-0" x 8'-6"	6	FIXED, VINYL	GOTHIC CONFIGURED GRIDS, SEE ELEVATION		
D	2'-0" x 5'-0"	13	FIXED, VINYL	GOTHIC CONFIGURED GRIDS, SEE ELEVATION. NO MUNTIN @ TOWER, TEMPERED AT RAMP		
E	2'-0" x 6'-0"	3	FIXED, VINYL			
G	2'-4 1/2" x 6'-6"	2	FIXED, VINYL			
H	2'-4 1/2" x 7'-0"	2				
I	2'-4 1/2" x 3'-6"	2	FIXED, VINYL			
J	6'-0" x 6'-0"	1	FIXED, VINYL	ROSE WINDOW		
K	2'-0" x 4'-0"	2	FIXED, VINYL	GOTHIC CONFIGURED GRIDS, SEE ELEVATION		
L	2'-0" x 2'-9"	18	FIXED, VINYL	CLERESTORY WINDOWS. GOthic CONFIGURED GRIDS, SEE ELEVATION		
M	2'-10" x 5'-6"	7	FIXED, VINYL	INTERIOR SOUND WINDOWS		
N	2'-0" x 5'-0"	2	CASEMENT, VINYL	GOTHIC CONFIGURED GRIDS, SEE ELEVATION		
O	2'-0" x 4'-0"	1	CASEMENT, VINYL	GOTHIC CONFIGURED GRIDS, SEE ELEVATION		
P	2'-0" x 6'-0"	1	CASEMENT, VINYL			
Q	2'-0" x 5'-0"	2	CASEMENT, VINYL	GOTHIC CONFIGURED GRIDS, SEE ELEVATION		
R	2'-0" x 4'-0"	1	CASEMENT, VINYL	GOTHIC CONFIGURED GRIDS, SEE ELEVATION		
S	2'-0" x 6'-0"	1	CASEMENT, VINYL	GOTHIC CONFIGURED GRIDS, SEE ELEVATION		



# STRUCTURAL - GENERAL NOTES

## GENERAL REQUIREMENTS

**GOVERNING CODE:** The design and construction of this project is governed by the "Oregon Structural Specialty Code (OSSC)", 2022 Edition, hereafter referred to as the OSSC, as adopted and modified by the City of **Bandon, OR** understood to be the Authority Having Jurisdiction (AHJ).

**REFERENCE STANDARDS:** Refer to Chapter 35 of 2022 OSSC. Where other Standards are noted in the drawings, use the latest edition of the standard unless a specific date is indicated. Reference to a specific section in a code does not relieve the contractor from compliance with the entire standard.

**DEFINITIONS:** The following definitions cover the meanings of certain terms used in these notes:

- "**Architect/Engineer**" – The Architect of Record and the Structural Engineer of Record.
- "**Structural Engineer of Record (SER)**" – The structural engineer who is licensed to stamp & sign the structural documents for the project. The SER is responsible for the design of the Primary Structural System.
- "**Submit for review**" - Submit to the Architect/SER for review prior to fabrication or construction.
- "**Per Plan**" – Indicates references to the structural plans, elevations and structural general notes.
- "**Seismic Force Resisting System (SFRS)**" – A recognized structural system of components (beams, braces, drags, struts, collectors, diaphragms, columns, walls, etc.) of the primary structure that are specially designed and proportioned to resist earthquake-induced ground motions and maintain stability of the structure. Fabrication and installation of components designated as part of the SFRS require the general contractor, subcontractor, or supplier who is responsible for any portion of SFRS fabrication or installation to comply with special requirements (including, but not limited to, material control, compliance certifications, personnel qualifications, documentation, reporting requirements, etc.) and to provide the required Quality Control including the required coordination of Special Inspections (Quality Assurance – QA). Special provisions apply to any member designated as part of the SFRS. Refer to plans, elevations, details, Design Criteria and Symbols and Legends for applicable members and connections.
- "**Specialty Structural Engineer (SSE)**" – A professional engineer (PE or SE), licensed in the State where the project is located, (typically not the SER), who performs specialty structural engineering services for selected specialty-engineered elements identified in the Contract Documents, and who has experience and training in the Specialty. Documents stamped and signed by the SSE shall be completed by or under the direct supervision of the SSE.
- "**Bidder-designed**" – Components of the structure that require the general contractor, subcontractor, or supplier who is responsible for the design, fabrication and installation of specialty-engineered elements identified in the Contract Documents to retain the services of an SSE. Submittals of "Bidder-designed" elements shall be stamped and signed by the SSE.

**SPECIFICATIONS:** Refer to the project specifications issued as part of the contract documents for information supplemental to these drawings.

**OTHER DRAWINGS:** Refer to the architectural, mechanical, electrical, civil and plumbing drawings for additional information including but not limited to dimensions, elevations, slopes, door and window openings, non-bearing walls, stairs, finishes, drains, waterproofing, railings, mechanical unit locations, and other nonstructural items.

**STRUCTURAL DETAILS:** The structural drawings are intended to show the general character and extent of the project and are not intended to show all details of the work. Use entire detail sheets and specific details referenced in the plans as "typical" wherever they apply. Similarly, use details on entire sheets with "typical" in the name wherever they apply.

**STRUCTURAL RESPONSIBILITIES:** The structural engineer (SER) is responsible for the strength and stability of the primary structure in its completed form.

**COORDINATION:** The Contractor is responsible for coordinating details and accuracy of the work; for confirming and correlating all quantities and dimensions; for selecting fabrication processes; for techniques of assembly; and for performing work in a safe and secure manner.

**MEANS, METHODS and SAFETY REQUIREMENTS:** The contractor is responsible for the means and methods of construction and all job-related safety standards such as OSHA and DOSH (Department of Occupational Safety and Health). The contractor is responsible for means and methods of construction related to the intermediate structural conditions (i.e., movement of the structure due to moisture and thermal effects; construction sequence; temporary bracing, etc.).

**BRACING/SHORING DESIGN ENGINEER:** The contractor shall at their discretion employ an SSE, a registered professional engineer for the design of any temporary bracing and shoring.

**TEMPORARY SHORING, BRACING:** The contractor is responsible for the strength and stability of the structure during construction and shall provide temporary shoring, bracing and other elements required to maintain stability until the structure is complete. It is the contractor's responsibility to be familiar with the work required in the construction documents and the requirements for executing it properly.

**CONSTRUCTION LOADS:** Loads on the structure during construction shall not exceed the design loads as noted in DESIGN CRITERIA & LOADS below or the capacity of partially completed construction as determined by the Contractor's SSE for Bracing/Shoring.

**CHANGES IN LOADING:** The contractor has the responsibility to notify the SER of any architectural, mechanical, electrical, or plumbing load imposed onto the structure that differs from, or that is not documented on the original Contract Documents (architectural / structural / mechanical / electrical or plumbing drawings). Provide documentation of location, load, size and anchorage of all undocumented loads in excess of 400 pounds. Provide marked-up structural plan indicating locations of any new equipment or loads. Submit plans to the Architect/Engineer for review prior to installation.

**NOTE PRIORITIES:** Plan and detail notes and specific loading data provided on individual plans and detail drawings supplements information in the Structural General Notes.

**DISCREPANCIES:** In case of discrepancies between the General Notes, Specifications, Plans/Details or Reference Standards, the Architect/Engineer shall determine which shall govern. Discrepancies shall be brought to the attention of the Architect/Engineer before proceeding with the work. Should any discrepancy be found in the Contract Documents, the Contractor will be deemed to have included in the price the most expensive way of completing the work, unless prior to the submission of the price, the Contractor asks for a decision from the Architect as to which shall govern. Accordingly, any conflict in or between the Contract Documents shall not be a basis for adjustment in the Contract Price.

**SITE VERIFICATION:** The contractor shall verify all dimensions and conditions at the site. Conflicts between the drawings and actual site conditions shall be brought to the attention of the Architect/Engineer before proceeding with the work.

**ADJACENT UTILITIES:** The contractor shall determine the location of all adjacent underground utilities prior to earthwork, foundations, shoring, and excavation. Any utility information shown on the drawings and details is approximate and not necessarily complete.

**ALTERNATES:** Alternate products of similar strength, nature and form for specified items may be submitted with adequate technical documentation (proper test report, etc.) to the Architect/Engineer for review. Alternate materials that are submitted without adequate technical documentation or that significantly deviate from the design intent of materials specified may be returned without review. Alternates that require substantial effort to review will not be reviewed unless authorized by the Owner.

## DESIGN CRITERIA AND LOADS

<b>OCCUPANCY:</b>	Risk Category of Building per 2022 OSSC Table 1604.5 =	II
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<b>WIND DESIGN:</b>	<b>MAIN WIND FORCE RESISTING SYSTEM</b>	
Ultimate Design Wind Speed, $V_{ult}$ (MPH)	120	
Exposure Category	B	
Internal Pressure Coefficient $C_{pi}$ =	+/- 0.18	
Topographic Factor $K_{zt}$ =	1.0	
Wind Analysis procedure used:	Directional Envelope	

<b>SEISMIC DESIGN:</b>	<b>Seismic Design Category: SDC =</b>	D
	Basic Structural System	Bearing Wall
	Seismic Force Resisting System	Shear Walls
	Response Modification Factor: $R =$	6.5
	System Over Strength Factor $\Omega =$	3
	Deflection Amplification Factor $C_d =$	4
	Site Classification per OSSC 1613.3.2 & ASCE 7-16, Ch. 20	D
	Site Class =	D
	Seismic Importance Factor per ASCE 7-16 Table 1.5-2 $I_e =$	1.0
	Spectral Response Acceleration (Short Period) $S_s =$	2.028 g
	Spectral Response Acceleration (1-Second Period) $S_1 =$	0.965 g
	Spectral Design Response Coefficient (Short Period) $S_{DS} =$	1.622 g
	Spectral Design Response Coefficient (1-Second Period) $S_{D1} =$	1.0
	Seismic response coefficient(s) $C_s =$	0.249
	Redundancy Factor (North/South Direction) $N/S \rho =$	1.0
	Redundancy Factor (East / West Direction) $EW \rho =$	1.0
	Design Base Shear (North/South Direction) (KIPS)	21.6 (ASD)
	Design Base Shear (East / West Direction) (KIPS)	44.8 (ASD)
	Base shear governed by:	Wind
	Seismic Analysis procedure used:	Equivalent Lateral Force (ELF)

<b>SNOW LOAD:</b> (1)	Flat Roof Snow Load, (PSF) $p_s =$	25 (2)
	Snow Drift Loading required by Authority Having Jurisdiction?	Yes
	Snow Load Importance Factor $I_s =$	1.0 (3)
	Ground Snow Load, (PSF) $p_g =$	20
	Snow Exposure Factor $C_e =$	B
	Thermal Factor $C_t =$	1.0
	See Roof Plan for Drift Loading	

- Snow Load is un-reducible and includes 5 psf rain-on-snow surcharge where ground snow load is greater than zero and 20 psf or less per ASCE 7-16 Section 7.10.
- Snow Load based on ASCE Fig 7.1.
- Snow Load Importance Factor per ASCE 7-16 Table 1.5-2.

<b>DESIGN LIVE LOADS</b>	<b>AREA</b>	<b>LIVE LOADS (PSF) UNQ</b>	<b>REMARKS &amp; FOOTNOTES (2)</b>
	Handrails & Pedestrian Guardrails	50 PLF or 200 LB	(1)
	Lobbies	100	2000 lbs
	Offices	50	2000 lbs
	Fixed-seat Church	60	
	Platforms (Assembly)	100	
	Roofs	20 PSF or 300 LB	Area load is reducible. Point load per note (2), see above for Snow Load
	Live load in unoccupied landscaped roofs	20	Per OSSC 1607.12.3.1

- Top rail shall be designed to resist 50 PLF line load or 200 lb point load applied in any direction at any point. Intermediate rails (all those except the handrail), balusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 LB on an area not to exceed 1 ft square. These three loads are to be considered separately with worst case used for design.
- Unless otherwise noted, point loads to be distributed over a 2.5ft x 2.5ft area and located to produce maximum load effects on structural members.

<b>DESIGN DEAD LOADS</b>	<b>BIDDER DESIGN</b>	<b>DEAD LOADS (PSF) UNQ</b>	<b>REMARKS &amp; FOOTNOTES</b>
	Roof Dead Load, Total	20 PSF	For Prefabricated Wood Truss design.
	Top Chord	10 PSF	
	Bottom Chord	10 PSF	

## SUBMITTALS

**SUBMIT FOR REVIEW:** SUBMITTALS of shop drawings, and product data are required for items noted in the individual materials sections and for *bidder designed* elements.

**SUBMITTAL REVIEW PERIOD:** Submittals shall be made in time to provide a minimum of TWO WEEKS or 10 WORKING DAYS for review by the Architect/Engineer prior to the onset of fabrication.

**GENERAL CONTRACTOR'S PRIOR REVIEW:** Prior to submission to the Architect/Engineer, the Contractor shall review the submittal for completeness. Dimensions and quantities are not reviewed by the SER, and therefore, must be verified by the General Contractor. Contractor shall provide any necessary dimensional details requested by the Detailer and provide the Contractor's review stamp and signature before forwarding to the Architect/Engineer.

**SHOP DRAWING REVIEW:** Once the contractor has completed their review, the SER will review the submittal for general conformance with the design concept and the contract documents of the building and will stamp the submittal accordingly. Markings or comments shall not be construed as relieving the contractor from compliance with the project plans and specifications, nor departures there from. The SER will return submittals in the form they are submitted in (either hard copy or electronic). For hard copy submittals, the contractor is responsible for submitting the required number of copies to the SER for review.

**SHOP DRAWING DEVIATIONS:** When shop drawings (component design drawings) differ from or add to the requirements of the structural drawings they shall be designed and stamped by the responsible SSE.

## DEFERRED SUBMITTALS

**BIDDER-DESIGNED ELEMENTS**  
 Submit "Bidder-Designed" deferred submittals to the Architect and SER for review. The deferred submittals shall also be submitted to the city for approval, if required by the city.  
 Design of prefabricated, "bidder designed", manufactured, pre-engineered, or other fabricated products shall comply with the following requirements:

- Design considers tributary dead, live, wind and earthquake loads in combinations required by OSSC.
- Design within the Deflection Limits noted herein and as specified or referenced in the OSSC.
- Design shall conform to the specifications and reference standards of the governing code.
- Submittal shall include:
  - Calculations prepared, stamped and signed by the SSE demonstrating code conformance.
  - Engineered component design drawings are prepared, stamped and signed by the SSE.
  - Product data, technical information and manufacturer's written requirements and Agency approvals as applicable.
  - SSE may submit to the Architect/Engineer, a request to utilize relevant alternate design criteria of similar nature and generally equivalency which is recognized by the Code and acceptable to the Authority Having Jurisdiction. Submit adequate documentation of design.

<b>DEFLECTION LIMITS FOR SSE / BIDDER DESIGNED</b>	<b>VERTICAL</b>	<b>LIMIT</b>
	Roof Members, Dead + Live or Snow or Wind, Total Load (TL) Deflection	L / 240, where (L is span length, inches)
	Roof, Live or Snow or Wind Load (RLL)	L / 360

- Wind Load is reducible to 0.42 times the Component and Cladding Loads per Table 1604.3 footnote f.

**GENERAL CONTRACTOR'S PRIOR REVIEW:** Once the contractor has completed their review of the SSE component drawings, the SER will review the submittal for general conformance with the design of the building and will stamp the submittal accordingly. Review of the Specialty Structural Engineer's (SSE) shop drawings (component design drawings) is for compliance with design criteria and compatibility with the design of the primary structure and does not relieve the SSE of responsibility for that design. All necessary bracing, ties, anchorage, proprietary products shall be furnished and installed per manufacturer's instructions or the SSE's design drawings and calculations. These elements include but are not limited to:

- Prefabricated Wood Roof Trusses
- Mechanical, Electrical, Plumbing & Sprinkler Hanger Plans
- Anchorage and Attachment of Mechanical Equipment

## INSPECTIONS, QUALITY ASSURANCE VERIFICATIONS AND TEST REQUIREMENTS

**INSPECTIONS:** Foundations, footings, under slab systems and framing are subject to inspection by the Building Official in accordance with OSSC 110.3. Contractor shall coordinate all required inspections with the Building Official.

**SPECIAL INSPECTIONS, VERIFICATIONS AND TESTS:** Special Inspections, Verifications and Testing shall be done in accordance with OSSC Chapter 17, the STATEMENT AND SCHEDULES OF SPECIAL INSPECTIONS listed in these drawings.

**STRUCTURAL OBSERVATION:** per OSSC Section 1704.6

Structural Observation is the visual observation of the structural system by a registered design professional for general conformance to the approved construction documents. It is not always required on a project, does not include or waive the responsibility for the special inspections and tests required by a Special Inspector per OSSC Chapter 17, is not continuous, and does not certify conformance with the approved construction documents.

Structural Observation for this project is not required per OSSC Section 1704.6.

**CONTRACTOR RESPONSIBILITY:** Prior to issuance of the building permit, the Contractor is required to provide the Authority Having Jurisdiction a signed, written acknowledgment of the Contractor's responsibilities associated with the above Statement of Special Inspections addressing the requirements listed in OSSC Section 1704.4. Contractor is referred to OSSC Sections 1705.12.5 and 1705.12.6 for architectural and MEP building systems that may be subject to additional inspections (based on the building's designated Seismic Design Category listed in the CRITERIA), including anchorage of HVAC ductwork containing hazardous materials, piping systems and mechanical units containing flammable, combustible or highly toxic materials, electrical equipment used for emergency or standby power, exterior wall panels and suspended ceiling systems.

## SOILS AND FOUNDATION

**REFERENCE STANDARDS:** Conform to OSSC Chapter 18 "Soils and Foundations."

**GEOTECHNICAL REPORT:** Recommendations contained in Geotechnical Evaluation of Proposed Church Site by Terra Firma Geologic Services dated February 17, 2012 were used for design.

**CONTRACTOR'S RESPONSIBILITIES:** Contractor shall be responsible to review the Geotechnical Report and shall follow the recommendations specified therein including, but not limited to, subgrade preparations, pile installation procedures, ground water management and steep slope Best Management Practices."

**GEOTECHNICAL SUBGRADE INSPECTION:** The Geotechnical Engineer shall inspect all sub-grades and prepared soil bearing surfaces, prior to placement of foundation reinforcing steel and concrete. Geotechnical Engineers shall provide a letter to the owner stating that soils are adequate to support the "Allowable Foundation Bearing Pressure(s)" shown below.

**DESIGN SOIL VALUES:**  
 Safety Factor per Soils Report..... 1.5  
 Allowable Foundation Bearing Pressure..... 1500 PSF

**FOUNDATIONS and FOOTINGS:** Foundations shall bear on either on competent native soil or compacted structural fill as per the geotechnical report. Exterior perimeter footings shall bear not less than 18 inches below finish grade, unless otherwise specified by the geotechnical engineer and/or the building official.

**FOOTING DEPTH:** Tops of footings shall be as shown on plans and vertical changes as indicated with steps in the footings; locations of steps shown as approximate and shall be coordinated with the civil grading plans.

**SLABS-ON-GRADE:** All slabs-on-grade shall bear on compacted structural fill or competent native soil per the geotechnical report. All moisture sensitive slabs-on-grade or those subject to receive moisture sensitive coatings/covering shall be provided with an appropriate capillary break and vapor barrier/retardant over the subgrade prepared and installed as noted in the geotechnical report, barrier manufacturer's written recommendations and coordinated with the finishes specified by the Architect.

## CAST-IN-PLACE CONCRETE

**REFERENCE STANDARDS:** Conform to:  
 (1) ACI 301-20 "Specifications for Structural Concrete"  
 (2) OSSC Chapter 19 "Concrete"  
 (3) ACI 318-19 "Building Code Requirements for Structural Concrete"  
 (4) ACI 117-10 "Specifications for Tolerances for Concrete Construction and Materials"

**FIELD REFERENCE:** The contractor shall keep a copy of ACI Field Reference manual, SP-15, "Standard Specifications for Structural Concrete (ACI 301) with Selected ACI and ASTM References."

**CONCRETE MIXTURES:** Conform to ACI 301 Section 4 "Concrete Mixtures" and OSSC Section 1904.1.

**MATERIALS:** Conform to ACI 301 Section 4.2.1 "Materials" for requirements for cementitious materials, aggregates, mixing water and admixtures.

**SUBMITTALS:**  
 (1) Provide all submittals required by ACI 301 Section 4.1.2. Submit mix designs for each mix in the table below. Substantiating strength results from past tests shall not be older than 24 months per ACI 318 Section 26.4.3.1 (b).

## TABLE OF MIX DESIGN REQUIREMENTS

Member Type/Location	Strength f'c (psi)	Test Age (days)	Nominal Maximum Aggregate	Exposure Class	Max W/C Ratio	Air Content	Notes (1 to 10 Typical UNO)
Footings	4000	28	1"	-	-	-	-
Interior Slabs on Grade	3000	28	1"	-	-	-	-

## DRAWING LEGEND

MARK	DESCRIPTION	MARK	DESCRIPTION
F2.0	FOOTING SYMBOL (REFER TO SPREAD FOOTING SCHEDULE)	I	INDICATES WIDE FLANGE COLUMN
(F1)	PILE CAP SYMBOL (REFER TO PILE CAP SCHEDULE)	□	INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR TUBE STEEL (TS) COLUMN
①	TILT-UP/PRECAST CONCRETE WALL CONNECTION SYMBOL (REFER TO CONNECTION DETAIL)	○	INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR STEEL PIPE COLUMN
2W4	SHEAR WALL SYMBOL (REFER TO SHEAR WALL SCHEDULE)	⊠	INDICATES WOOD POST
△ RFT 00	REVISION TRIANGLE	■	INDICATES BUNDLED STUDS
1	TILT-UP/PRECAST CONCRETE WALL PANEL NUMBER (REFER TO TILT-UP/PRECAST CONCRETE ELEVATIONS)	■	INDICATES CONCRETE COLUMN
◇	CMU WALL REINFORCING SYMBOL (REFER TO CMU WALL REINFORCING SCHEDULE)	■	INDICATES PRECAST CONCRETE COLUMN
6"	CONTINUITY PLATE LENGTH (REFER TO TYPICAL DETAIL)	⊢	INDICATES MOMENT FRAME CONNECTION
DS	INDICATES DOUBLE SHEAR CONNECTION (REFER TO THE DOUBLE SHEAR PLATE CONNECTIONS DETAIL)	⊢	INDICATES PARTIALLY RESTRAINED MOMENT FRAME CONNECTION
00TB	INDICATES REINFORCING TYPE (REFER TO THE REINFORCING SCHEDULE)	⊢	INDICATES CANTILEVER CONNECTION
SR	INDICATES NUMBER OF STUD RAIL REQUIRED AT COLUMN (REFER TO STUD RAIL DETAILS)	⊢	INDICATES DRAG CONNECTION
◇	ROOF/FLOOR DIAPHRAGM NAILING SYMBOL (REFER TO DIAPHRAGM NAILING SCHEDULE)	⊢	INDICATES A LEDGER
C1	STEEL/CONCRETE COLUMN SYMBOL (REFER TO STEEL COLUMN SCHEDULE)	⊢	INDICATES WOOD OR STEEL STUD BEARING WALL LINE PER KEY ON SHEET
COLUMN SIZE	ELEVATION SYMBOL (T/ REFERS TO COMPONENT THAT THE ELEVATION REFERENCES)	OR	INDICATES WOOD OR STEEL STUD SHEAR WALL LINE AND HOLD-DOWNS PER KEY ON SHEET
T/FTG = X'X'	STUD BUBBLE (INDICATES NUMBER OF STUDS REQUIRED IF EXCEEDS NUMBER SPECIFIED IN PLAN NOTE)	⊢	INDICATES MASONRY/CMU WALL
③	INDICATES STEP IN FOOTING (REFER TO TYPICAL STEP IN FOOTING DETAIL)	⊢	INDICATES CONCRETE/TILT-UP CONCRETE WALL
X SX.X	DETAILS OR SECTION CUT (DETAIL NUMBER/SHEET NUMBER)	⊢	INDICATES BEARING WALL BELOW
00 SO.0	DETAILS OR SECTION CUT IN PLAN VIEW (DETAIL NUMBER/SHEET NUMBER)	⊢	INDICATES EXISTING WALL
XXSXX.XX	INDICATES LOCATION OF CONCRETE WALLS, SHEAR WALLS OR BRACED FRAME ELEVATIONS	⊢	POST-TENSION DEAD END (PLAN)
→	STRUCTURAL EXTENT SYMBOL (SINGLE ARROW - END OF EXTENT DOUBLE ARROW - CONTINUOUS EXTENT ALONG THE ELEMENT LINE UNTIL THE ELEMENT IS INTERRUPTED)	⊢	POST-TENSION STRESSING END (PLAN) (IN INCHES)
↔	INDICATES DIRECTION OF DECK SPAN	⊢	INTERMEDIATE STRESSING (PLAN)

## ABBREVIATIONS

L	Angle	EXCAV	Excavation	PJP	Partial Joint Penetration
AB	Anchor Bolt	FB	Factory-Built	PREFAB	Prefabricated
ADDL	Additional	FD	Floor Drain	PSF	Pounds per Square Foot
ADH	Adhesive	FDN	Foundation	PSI	Pounds Per Square Inch
ALT	Alternate	FIN	Finish	PSL	Parallel Strand Lumber
ARCH	Architectural	FLR	Floor	PT	Post-Tensioned
B or BOT	Bottom	FRP	Fiberglass Reinforced Plastic	P/T	Pressure Treated
B/	Bottom Of	FRT	Fire Retardant Treated	R	Radius
BLDG	Building	FTG	Footing	RD	Roof Drain
BLKG	Blocking	F	Face of	REF	Refer/Reference
BMU	Block Masonry Unit	G	Gage	REINF	Reinforcing
BP	Baseplate	GAL	Galvanized	REQD	Required
BRBF	Buckling Restrained	GEOTECH	Geotechnical	RET	Retaining
	Braced Frame	GL	Glue Laminated Timber	SB	Site-Built
BRG	Bearing	GWB	Gypsum Wall Board	SCBF	Special Concentric
BTWN	Between	HDR	Header	SCFD	Braced Frame
C	Cam	HF	Ham-Fit	SCHED	Schedule
CB	Castellated Beam	HGR	Hanger	SER	Structural Engineer of Record
C'BORE	Counterbore	HD	Hold-down	SFRS	Seismic Force-Resisting System
CL or C	Centerline	HORIZ	Horizontal	SFTG	Sheathing
CLT	Cross-Laminated Timber	HP	High Point	SM	Square
CIP	Cast in Place	HSS = TS	(Hollow Structural Section)	SLTB	Short Leg Back-to-Back
CFS	Cold Formed Steel	IBC	International Building Code	SMF	Special Moment Frame
CJ	Construction or	ID	Inside Diameter	SOG	Slab on Grade
	Control Joint	IE	Invert Elevation	SP	Southern Pine
CJP	Complete Joint	IF	Inside Face	SPEC	Specification
	Penetration	INT	Interior	SQ	Square
CLR	Clear	K	Kips	SR	Studrail
CLG	Calling	KSF	Kips Per Square Foot	SF	Square Foot
CMU	Concrete Masonry Unit	LF	Lineal Foot	SST	Stainless Steel
COL	Column	LL	Live Load	STAGG	Stagger/Staggered
CONC	Concrete	LLB	Long Leg Back-to-Back	STD	Standard
CONN	Connection	LLH	Long Leg Horizontal	STDF	Stiffener
CONST	Construction	LLV	Long Leg Vertical	STL	Steel
CONT	Continuous	LP	Low Point	STRUCT	Structural
C'SINK	Counter-sink	LONGIT	Longitudinal	SWWJ	Solid Web Wood Joist
CTRD	Centered	LVL	Laminated Strand Lumber	SYM	Symmetrical
DIA	Diameter	LVL	Laminated Veneer Lumber	T</	







## SPECIAL INSPECTIONS

The following Statement and Schedules of Inspections are those Special Inspections and Tests that shall be performed for this project. Special Inspectors shall reference these plans and OSSC Chapter 17 for all special inspection requirements. The owner shall retain an "approved agency" per OSSC 1703 to provide special inspections for this project. Special Inspectors shall be qualified persons per OSSC 1704.2.1. Special inspection reports shall be provided on a weekly basis. Submit copies of all inspection reports to the Architect/Engineer and the Authority Having Jurisdiction for review. In addition to special inspection reports and tests, submit reports and certificates noted in OSSC 1704.5 to the Authority Having Jurisdiction. Final special inspection reports will be required by each special inspection firm per OSSC 1704.2.4.

### STATEMENT OF SPECIAL INSPECTIONS:

This statement of Special Inspections has been written with the understanding that the Building Official will:

- Review and approve the qualifications of the Special Inspectors
- Monitor the special inspection activity on the project site to assure that Special Inspectors are qualified and performing their duty as state within this statement.
- Review all Special Inspection Reports submitted to them by the Special Inspector
- Perform inspections as required by OSSC Section 110.3.

The following Special Inspections are applicable to this project:

- Special Inspections for Standard Buildings (per OSSC 1705.1) **REQUIRED**
- Special Inspections for Seismic Resistance (per OSSC 1705.13) **REQUIRED**
- Testing for Seismic Resistance (per OSSC 1705.14) **REQUIRED**
- Special Inspections for Wind Resistance (per OSSC 1705.12) **NOT REQUIRED**

### SPECIAL INSPECTION OF SHOP FABRICATED GRAVITY LOAD-BEARING MEMBERS AND ASSEMBLIES:

Special Inspection of shop fabricated Gravity Load Bearing Members & Assemblies shall be verified by the Special Inspector as stated in Section 1704.2.5 which includes the following:

- **Prior to the start of fabrication:** Special Inspector(s), representing the Owner, shall visit the Fabricator's shop(s) where the work is to be performed, and verifies that the Fabricator maintains detailed Fabrication and Quality Control procedures that provide a basis for inspection, control of workmanship, material control, and fabricator's ability to conform to approved Construction Documents and referenced Standards.
- Fabricator shall have available for Inspector's review, detailed procedures for material control that demonstrates the fabricator's ability to maintain suitable records and procedures such that, at any time during the fabrication process, the material specification, grade and applicable test reports for primary load-carrying members, are capable of being determined.

**POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY:** shall comply with OSSC Section 1703. Inspections shall be in accordance with the requirements set forth in the approved ICC Evaluation Report and as indicated by the design requirements specified on the drawings. Refer to the POST INSTALLED ANCHORS section of these notes for anchors that are the basis of the design. Special inspector shall verify anchors are as specified in the POST INSTALLED ANCHORS section of these notes or as otherwise specified on the drawings. Substitutions require approval by the SER and require substantiating calculations and current 2021 OSSC recognized ICC Evaluation Services (ES) Report. Special Inspector shall document in their Special Inspection Report compliance with each of the elements required within the applicable ICC Evaluation Services (ES) Report.

**PREFABRICATED CONSTRUCTION:** All prefabricated construction shall conform to OSSC Section 1703.

### SCHEDULES OF SPECIAL INSPECTIONS:

TABLE 1705.6 - REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

SERIAL NUMBER	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	Verify materials below shallow foundations are adequate to achieve the design bearing capacity	-	X
2.	Verify excavations are extended to proper depth and have reach proper material	-	X
3.	Perform classification and testing of compacted fill materials	-	X
4.	During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill.	X	-
5.	Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly	-	X

TABLE 1705.3 - REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

SERIAL NUMBER	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	OSSC REFERENCE
1.	Inspection, reinforcement, and verify placement.	-	X	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	-
3.	Inspect anchors cast in concrete	-	X	ACI 318: 17.8.2	-
4.	Inspect anchors post-installed in hardened concrete members: <ul style="list-style-type: none"> <li>a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads</li> <li>b. Mechanical anchors and adhesive anchors not defined in 4.a</li> </ul>	X	-	ACI 318: 17.8.2.4	-
5.	Verify use of required design mix	-	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2
6.	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X	-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	-
7.	Inspect concrete placement for proper application techniques	X	-	ACI 318: 26.5	-
8.	Verify maintenance of specified curing temperature and techniques	-	X	ACI 318 :26.5.3 – 26.5.5	-
14.	Inspect formwork for shape, location and dimensions of the concrete member being formed	-	X	ACI 318: 26.11.1.2 (b)	-

REQUIRED SPECIAL INSPECTIONS OF WOOD CONSTRUCTION

SERIAL NUMBER	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
3.	Shear Walls (where fastener spacing of the sheathing is 4 inches or less on center) <ul style="list-style-type: none"> <li>a. Anchor Bolts including proper bottom plate sizes (2x and 3x) and plate washers</li> <li>b. Hold-downs (HD) and Continuous Rod Tie-Down Systems (TDS) including squash blocks and anchors to concrete</li> <li>c. A35 and LPT shear connectors</li> <li>d. Strap Connectors</li> <li>e. Boundary Edge Nailing</li> <li>f. Plate Nailing and Panel Edge Nailing for size and spacing</li> <li>g. Blocking</li> </ul>	-	X	OSSC Section 1705.13.2
5.	Moisture Content of wood studs, plates, beams, decking, and joists	-	-	As directed by the Contractor to meet moisture content requirements
6.	Roof truss 'hurricane clips'	-	X	

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PROJECT NO.: 23031-0219

HOLY TRINITY CATHOLIC CHURCH

335 OREGON AVE - SE  
BANDON, OREGON 97411

PERMIT

REVISIONS:  
# DATE DESCRIPTION

DATE: JULY 2024

SHEET TITLE:  
**STRUCTURAL SPECIAL INSPECTIONS**

**S1.3**

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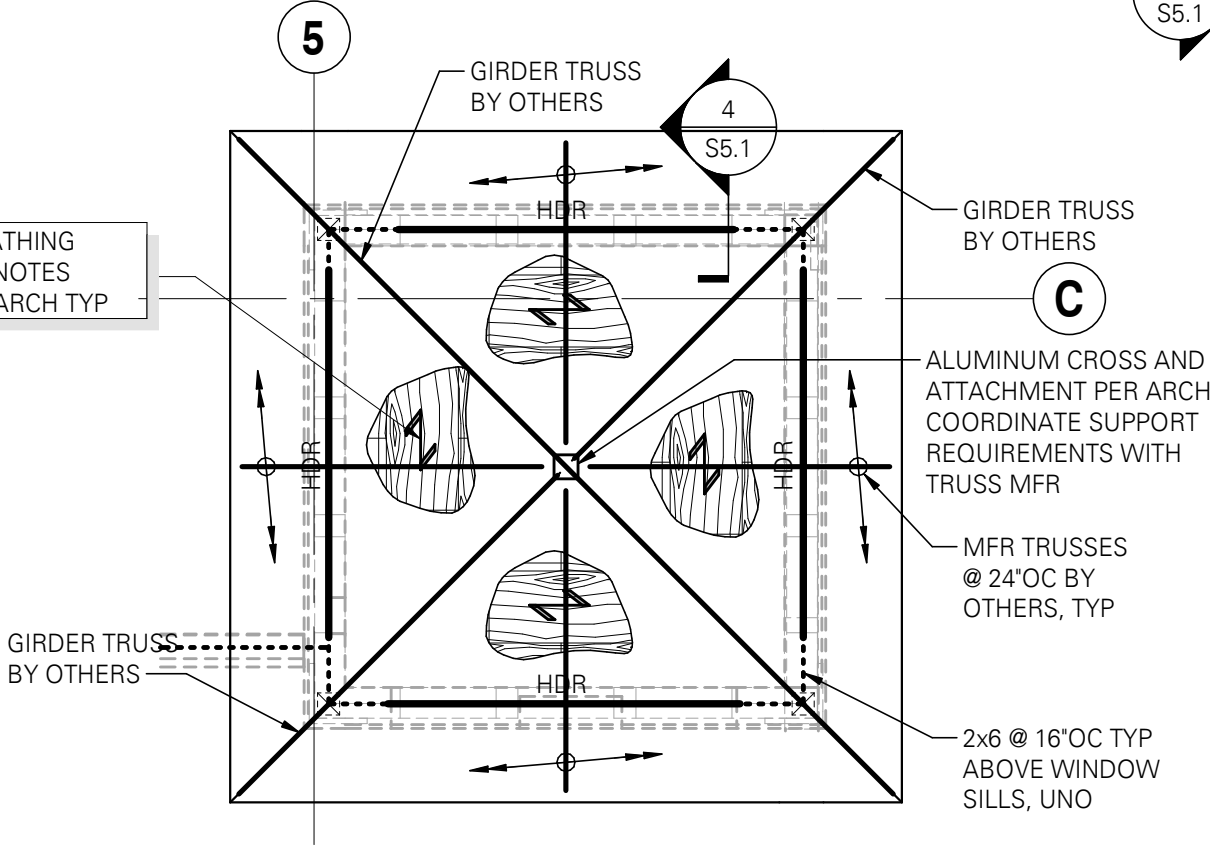
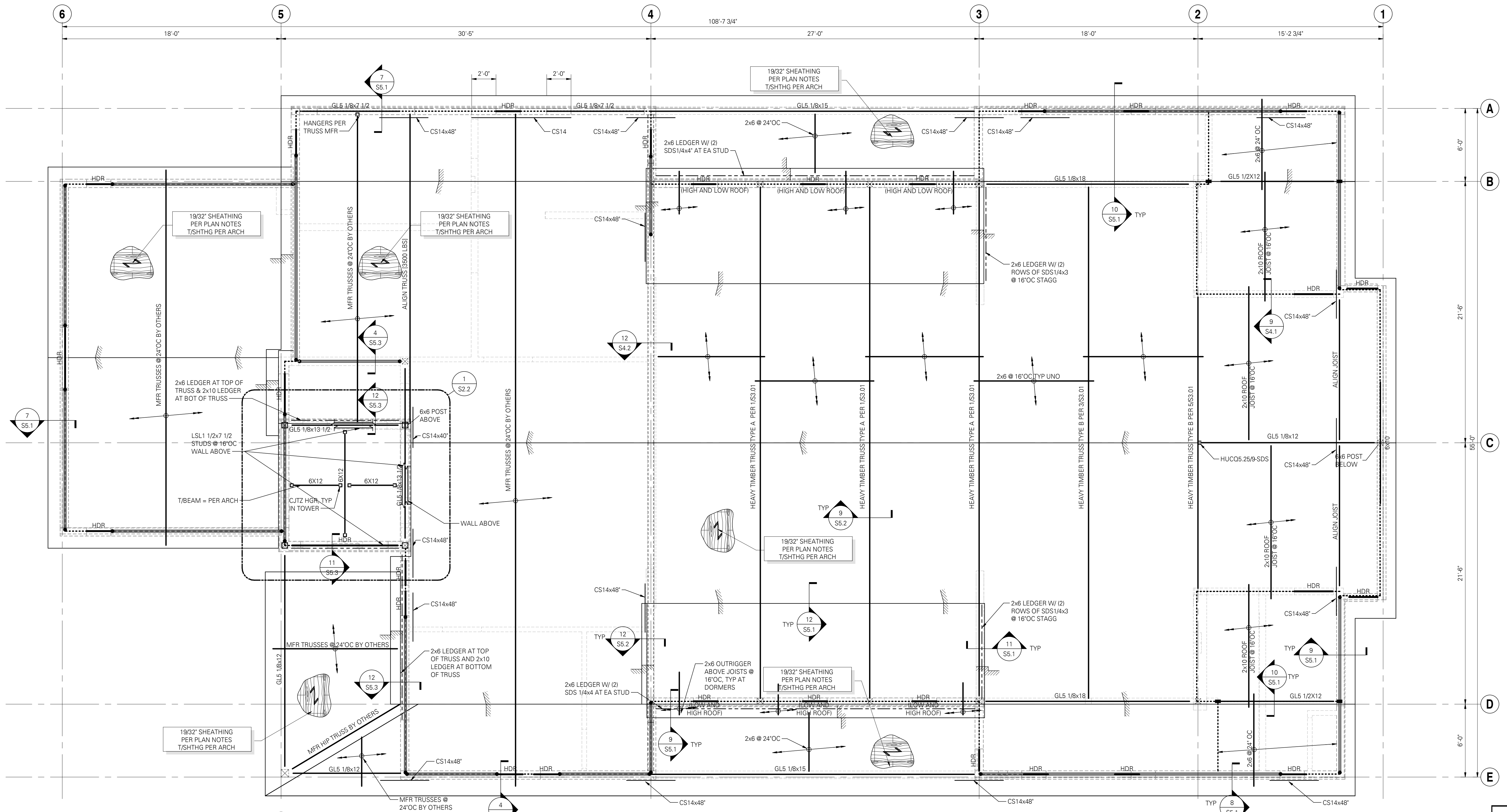
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#	DATE	DESCRIPTION



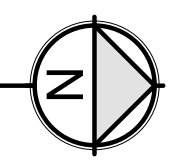
**1 PARTIAL PLAN - TOWER ROOF FRAMING**  
SCALE: 1/4" = 1'-0"

**ROOF FRAMING PLAN NOTES:**

- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER [S1.1, S1.2 AND S1.3].
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
- ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS, STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS.
- ROOF SHEATHING PER PLAN AND STRUCTURAL GENERAL NOTES. SHEATHING TO BE NAILED TO ROOF FRAMING WITH 0.131" DIA x 2 1/2" NAILS @ 6" OC AT SUPPORTED PANEL EDGES AND @ 12" OC FIELD, UNO. LAY SHEATHING WITH FACE GRAIN (LONG DIRECTION) PERPENDICULAR TO SUPPORTS AND STAGGER PANEL END JOINTS. ALLOW 1/8" SPACE BETWEEN PANEL ENDS AND EDGES.
- ALL 2x HANGERS TO BE FACE MOUNT TYPE LUS, UNO.
- HEADERS SHOWN BUT NOT SPECIFIED ARE TO BE (2) 2x8 MINIMUM. HEADER SUPPORTS PER STUD AND SHEAR WALL PLAN ON FLOOR BELOW.
- BEAMS ARE FLUSH FRAMED WITH JOISTS UNLESS NOTED OTHERWISE ON DETAILS, OR ON PLANS AS 'DB' INDICATING THAT DROPPED BEAM FRAMING IS REQUIRED. BEAM SUPPORTS PER STUD AND SHEAR WALL PLAN ON LEVEL BELOW. PROVIDE A35 CLIP EACH SIDE OF FLUSH BEAMS THAT BEAR ON DOUBLE TOP PLATES.
- PROVIDE SIMPSON H2A.5A TIES AT ALL ROOF JOISTS, TYPICAL.
- PROVIDE SOLID BLOCKING OVER ALL SHEAR WALLS AND BEARING WALLS. AT SHEAR WALLS PARALLEL TO FRAMING, ALIGN JOIST OR TRUSS OVER SHEAR WALL (ADDITIONAL JOISTS OR TRUSSES MAY BE REQUIRED).
- ALL RIM JOISTS AND BLOCKING TO BE 1 1/2" LSL MINIMUM UNO.
- ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING CRITERIA:
  - ROOF SYSTEM TO BE BIDDER DESIGNED. ROOF PLAN SHOWN IS A SUGGESTED LAYOUT. CHANGES MUST BE SUBMITTED TO THE ENGINEER-OF-RECORD THRU THE ARCHITECT WITH BEARING POINTS AND REACTIONS TO STRUCTURE.
  - TRUSS LAYOUT SHOWN IS APPROXIMATE. TRUSS SUPPLIER IS RESPONSIBLE FOR FINAL TRUSS LAYOUT AND CONFIGURATION. NOTIFY ENGINEER OF REVISIONS TO PLAN.
  - STANDARD DEAD AND LIVE LOADS AND SUBMITTAL INFORMATION PER STRUCTURAL GENERAL NOTES.
  - [2000]BSJ INDICATES SHEAR TRANSFER LOAD IN ROOF TRUSS TO BE LOCATED ABOVE SHEAR WALLS TRUSS. MANUFACTURER SHALL DESIGN THESE TRUSSES FOR THE BRACKETED LATERAL LOAD SPECIFIED ON PLAN, IN ADDITION TO THE DESIGN DEAD AND LIVE LOADS.
- ALL GIRDER TRUSSES SHALL BE SUPPORTED BY A MINIMUM OF TWO STUDS. TRUSS MANUFACTURER TO SUBMIT TO ENGINEER GIRDER TRUSSES REACTIONS.
- ALL MULTIPLE STUDS SUPPORTING HIP MASTER AND GIRDER TRUSSES TO CONTINUE TO FOUNDATION.
- ROOF TRUSSES SHALL BE DESIGNED FOR ADDITIONAL LOADS FROM (MECHANICAL UNITS, ROOF PATIO AREAS, LANDSCAPING AND PIPING). CONTRACTOR TO PROVIDE THE TRUSS SUPPLIER WITH LOCATIONS AND SUPPORT CONDITIONS OF ALL MECHANICAL, ELECTRICAL, PLUMBING, AND SPRINKLER LOADS. SPECIAL TRUSS SHAPES AND OPENING REQUIREMENTS ARE AS DESIGNATED ON PLANS.
- TRUSS HANGERS AND HURRICANE TIES SHALL BE SUPPLIED AND DESIGNED BY THE TRUSS SUPPLIER.
- TRUSS MANUFACTURER TO DESIGN BEARING AT TOP PLATES FOR COMPRESSION PERPENDICULAR TO GRAIN  $f_c = 405$  PSI.
- BEARING STUD, SHEAR WALL, HOLD-DOWN, POST SIZE, AND POST CAP AND BASE REQUIREMENTS BELOW PER STUD AND SHEAR WALL PLAN.
- HORIZONTAL STRAP TIES INDICATED ON THE FRAMING PLAN ARE TO BE CENTERED OVER WALL TOP PLATE AND/OR HEADER, BLOCKING OR BEAM. NAIL PER 9/S4.1. SPLICE REQUIREMENTS PER STRAP MANUFACTURER SPECIFICATIONS.

**ROOF FRAMING PLAN**

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









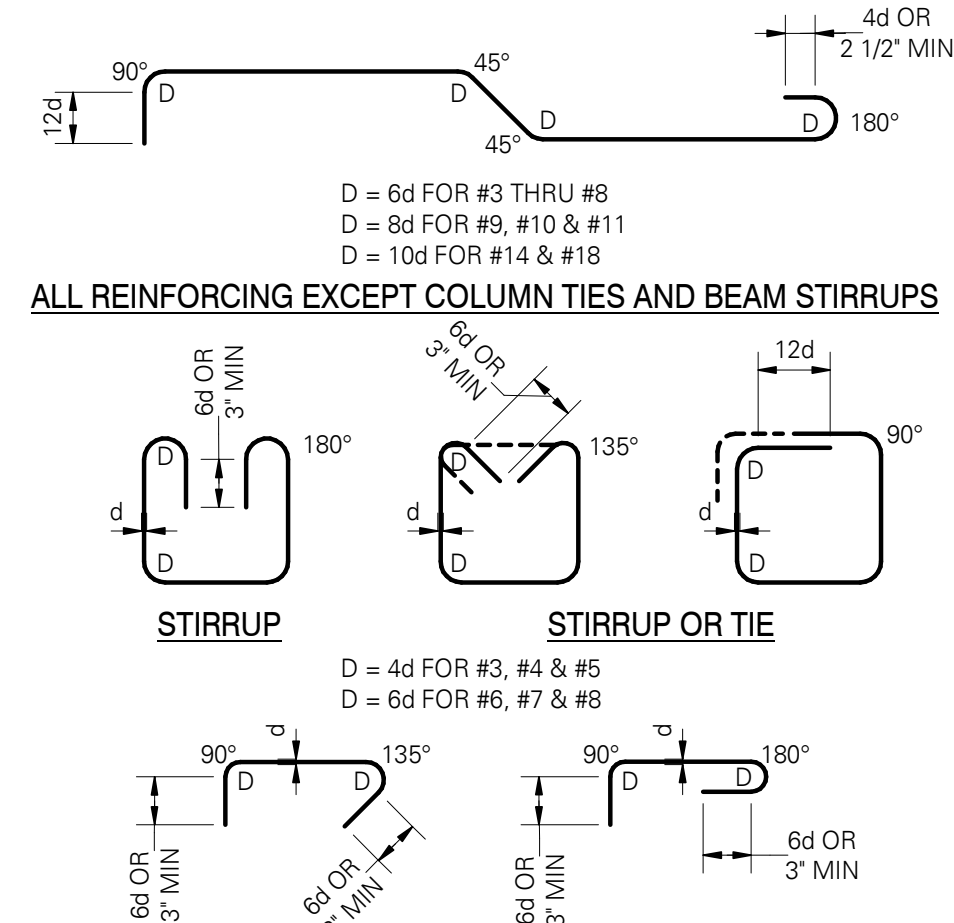
D1400 BAR SIZE	GRADE 60 REINFORCING				
	MISCELLANEOUS BARS		TOP BARS (see note #5)		HOOKED BARS
	Ld	Splice	Ld	Splice	Ldh
$f'_c = 3000\text{psi}$					
#4	22	29	29	38	12
#5	28	36	36	47	16
$f'_c = 4000\text{psi}$					
#3	15	19	19	25	6
#4	19	25	25	33	6
#5	24	31	31	41	8
#6	29	37	37	49	10
#7	42	54	54	71	13
#8	48	62	62	81	15
#9	54	70	70	91	18
#10	61	79	79	102	22
#11	67	87	87	114	26
#14	81	N/A	105	N/A	33
#18	108	N/A	140	N/A	51

**NOTES:**

- ALL TABULATED VALUES ARE IN INCHES.
- VALUES FOR UNCOATED REINFORCING AND NORMAL WEIGHT CONCRETE CALCULATED PER ACI 318-19 SECTION 25.4.2.4. CALCULATIONS ASSUME THAT  $(C_b + K_{tr})/d_b = 1.5$ , WITH CLEAR SPACING  $> d_b$ , CLEAR COVER  $> d_b$  AND MINIMUM STIRRUPS OR TIES THROUGHOUT Ld OR CLEAR SPACING  $> 2d_b$  AND CLEAR COVER  $> d_b$ .
- DEVELOP ALL REINFORCING IN STRUCTURAL SLABS WITH MINIMUM DEVELOPMENT LENGTH Ld.
- Ldh = DEVELOPMENT LENGTH OF BAR WITH STANDARD HOOK.
- TOP BAR = HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE BELOW OR AS NOTED ON DOCUMENTS AS "TOP BAR".
- LAP SPLICE OF DIFFERENT SIZED BARS TO BE THE LARGER OF Ld OF THE LARGER BAR OR SPLICE LENGTH OF THE SMALLER BAR.

**1 TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE**

SCALE: 3/4" = 1'-0" (01400 & 1403B)

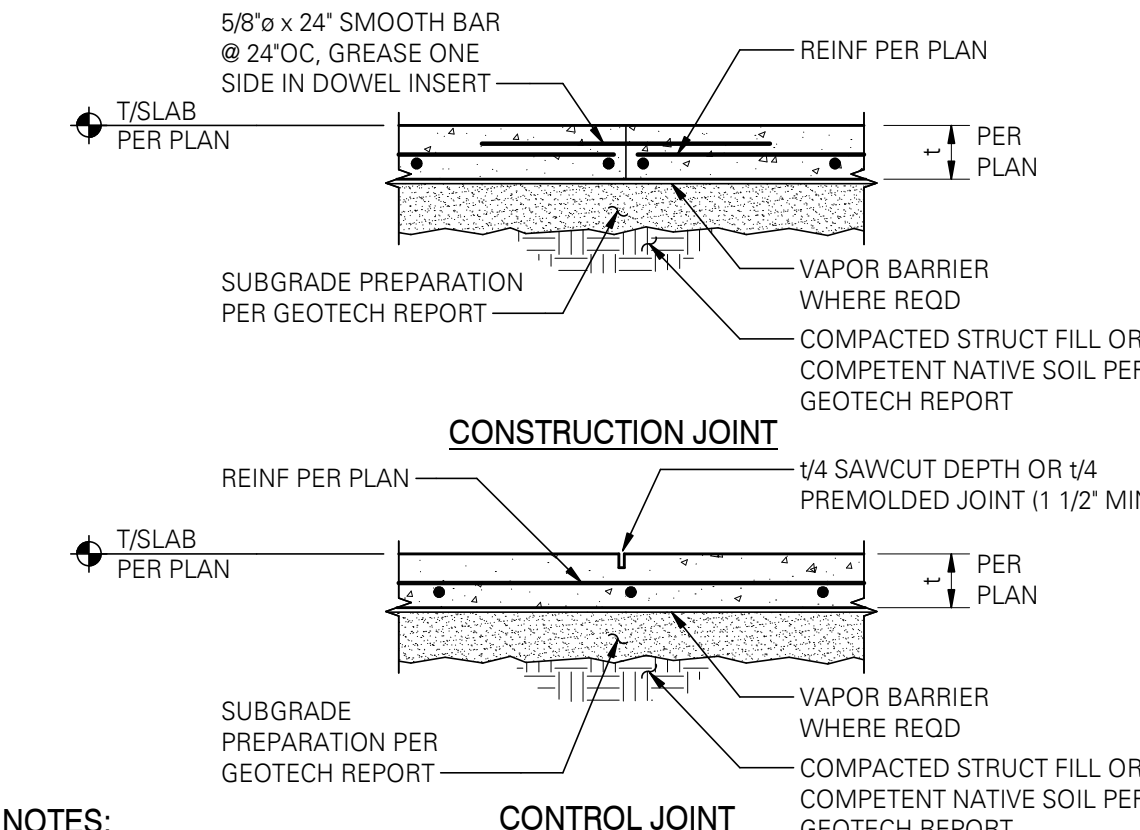


**2 STANDARD HOOKS AND BENDS**

**NOTE:**

TIES AND CROSSTIES FOR SHEAR WALL BOUNDARY ELEMENTS SHALL BE DETAILED AS COLUMN TIES/CROSSTIES. d = BAR DIAMETER, D = BEND DIAMETER

SCALE: 3/4" = 1'-0" (03400)

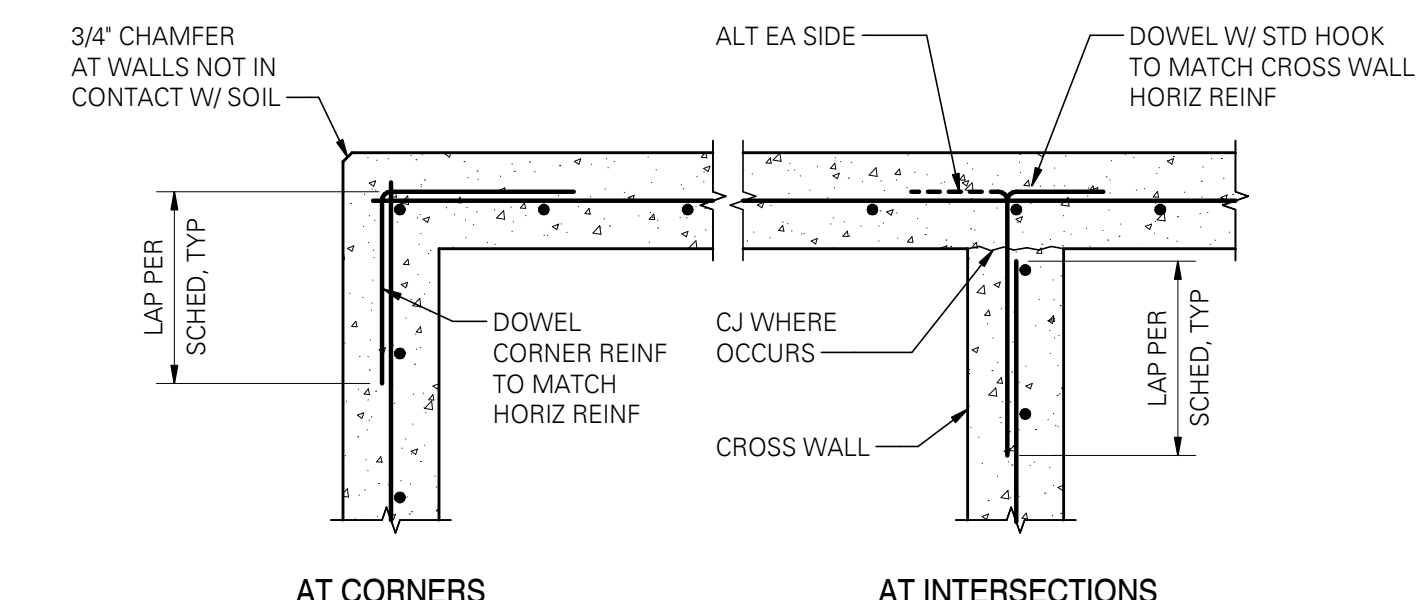


**NOTES:**

- CONSTRUCTION JOINT IS A JOINT BETWEEN DIFFERENT POURS. CONTROL JOINT IS A CRACK CONTROL JOINT WITHIN THE SAME POUR.
- USE "EARLY ENTRY DRY-CUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST.
- ALIGN A CONSTRUCTION OR CONTROL JOINT WITH RE-ENTRANT SLAB CORNERS, EACH WAY, TYPICAL.
- CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQUARE AREAS 225 SQUARE FEET MAXIMUM, WITH MAXIMUM PANEL ASPECT RATIO OF 1.3 TO 1.0.
- CONTRACTOR TO SUBMIT CONSTRUCTION/CONTROL JOINT PLAN TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW/APPROVAL.

**3 TYPICAL SLAB ON GRADE JOINT DETAILS WITH REINFORCING**

SCALE: 3/4" = 1'-0" (03201)

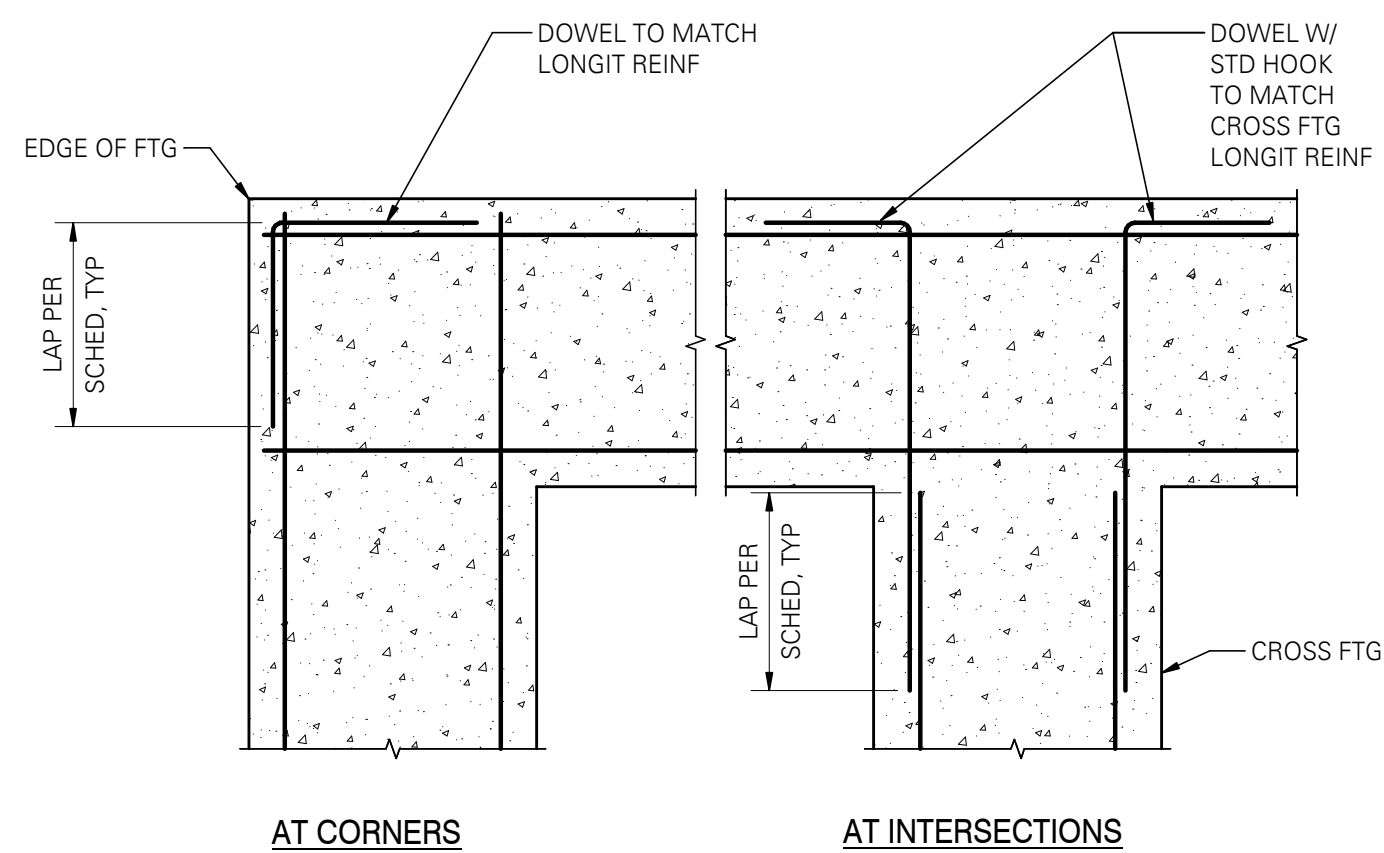


**NOTES:**

- SPLICE LENGTHS PER LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE.
- WALL REINFORCING PER PLAN OR ELEVATIONS, SECTIONS AND DETAILS.
- AT FOOTINGS AND STEM WALLS, CORNER REINFORCING TO MATCH FOOTING AND STEM WALL HORIZONTAL REINFORCING.

**4 PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS**

SCALE: 3/4" = 1'-0" (03402)

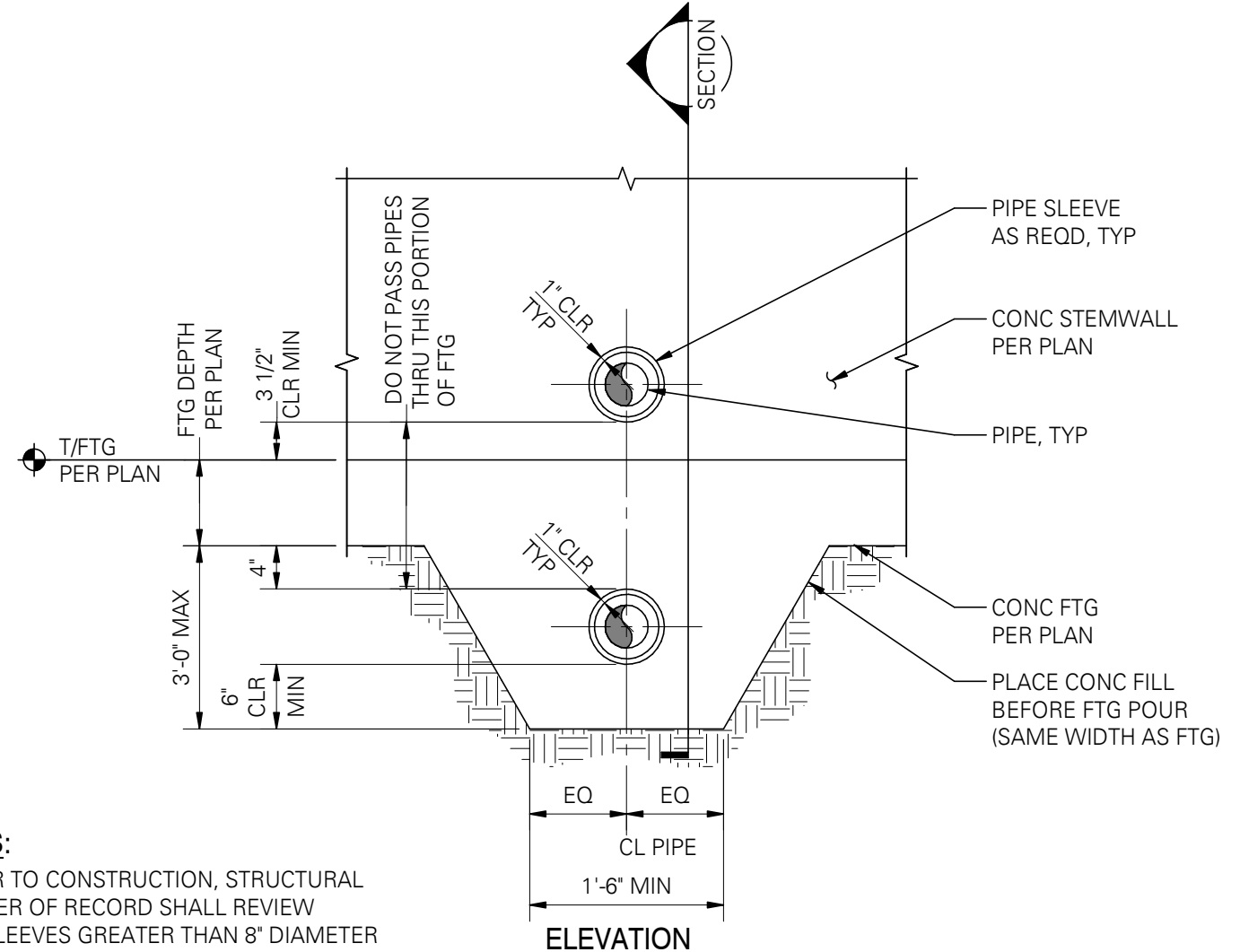


**NOTE:**

- SPLICE LENGTHS PER LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE.
- FOOTING REINFORCING PER PLAN OR ELEVATIONS, SECTIONS AND DETAILS.

**5 PLAN - TYPICAL CORNER REINFORCING AT CONCRETE FOOTINGS**

SCALE: 3/4" = 1'-0" (03132)

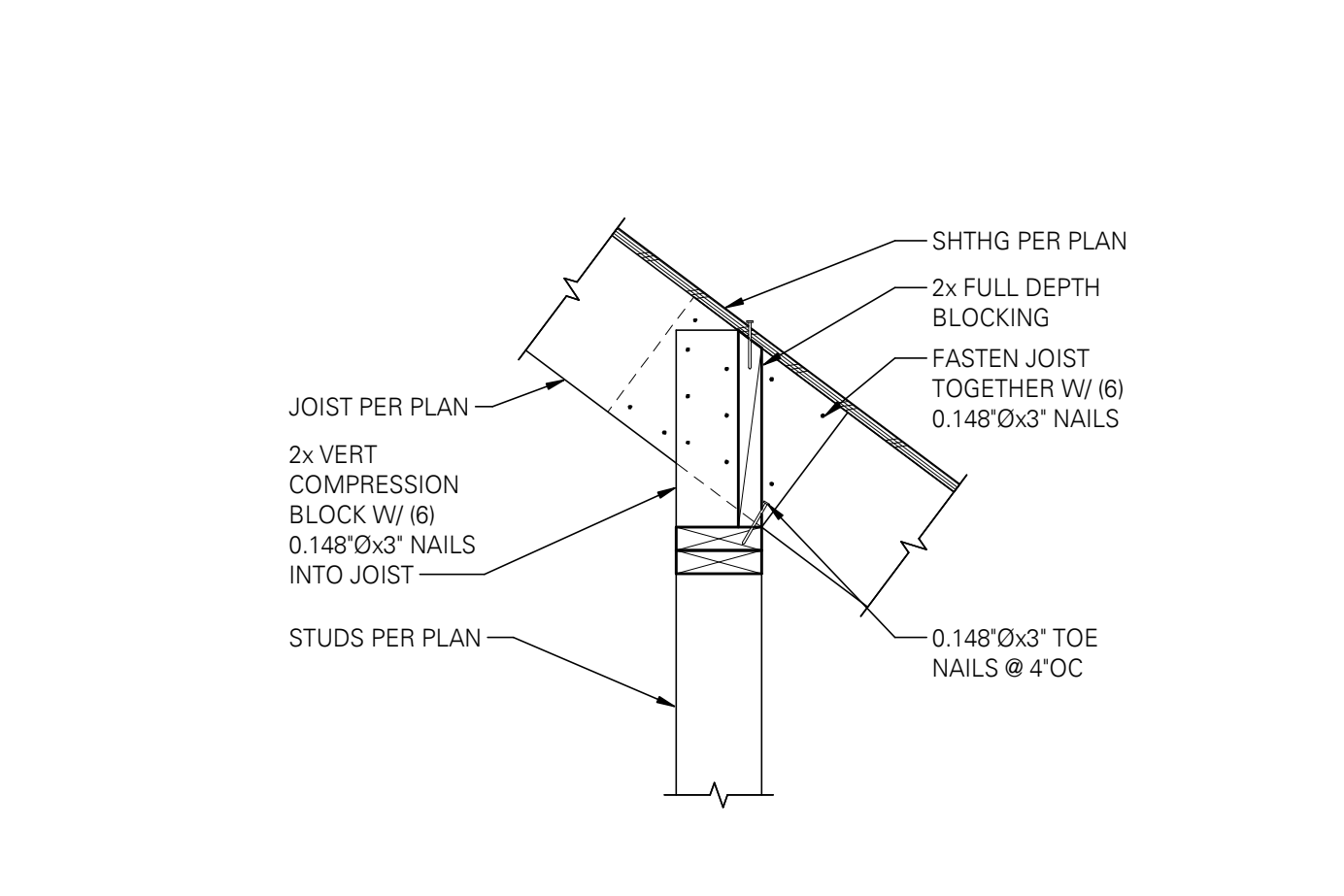


**NOTES:**

- PRIOR TO CONSTRUCTION, STRUCTURAL ENGINEER OF RECORD SHALL REVIEW PIPES/SLEEVES GREATER THAN 8" DIAMETER AND SPACED CLOSER THAN 3' APART.
- ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN CONCRETE.

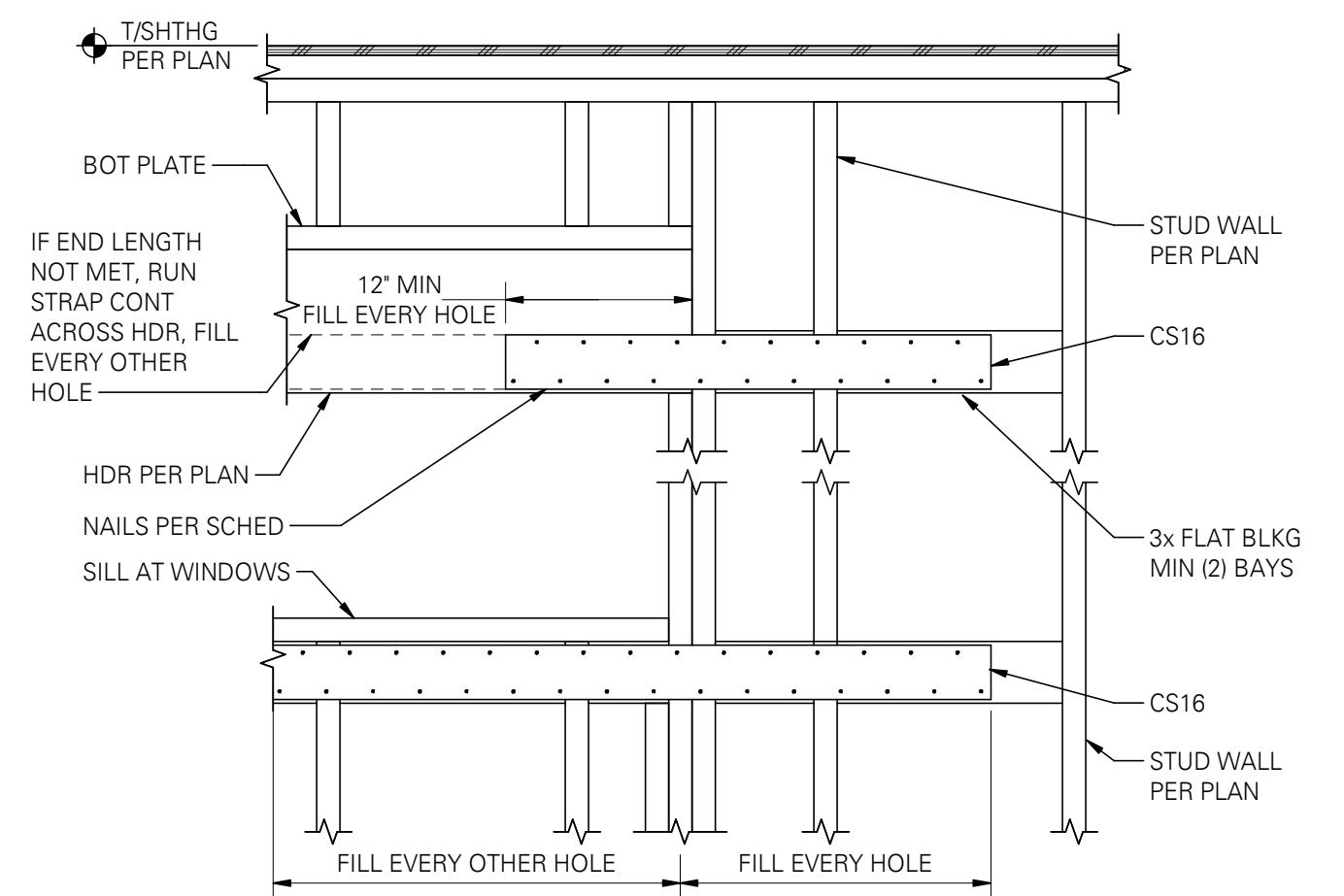
**7 TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING**

SCALE: 3/4" = 1'-0" (03190)



**9 INTERIOR BEARING WALL AT ROOF**

SCALE: 1" = 1'-0"



**10 SHEAR WALL FTAO STRAP**

SCALE: 1" = 1'-0" (06210M)

HORIZONTAL STRAP FASTENER SCHEDULE STRAP NAILED TO TOP OF JOISTS/BEAMS			
STRAP	FASTENERS [1]		CAPACITY
	STRAP ENDS [2]	BALANCE	
CS16	(2) 0.131"Øx2 1/2" NAILS IN (2) ROWS @ 4 1/8"OC	(2) ROWS OF 0.131"Øx2 1/2" NAILS @ 8 1/4"OC	1.7k

**NOTES:**

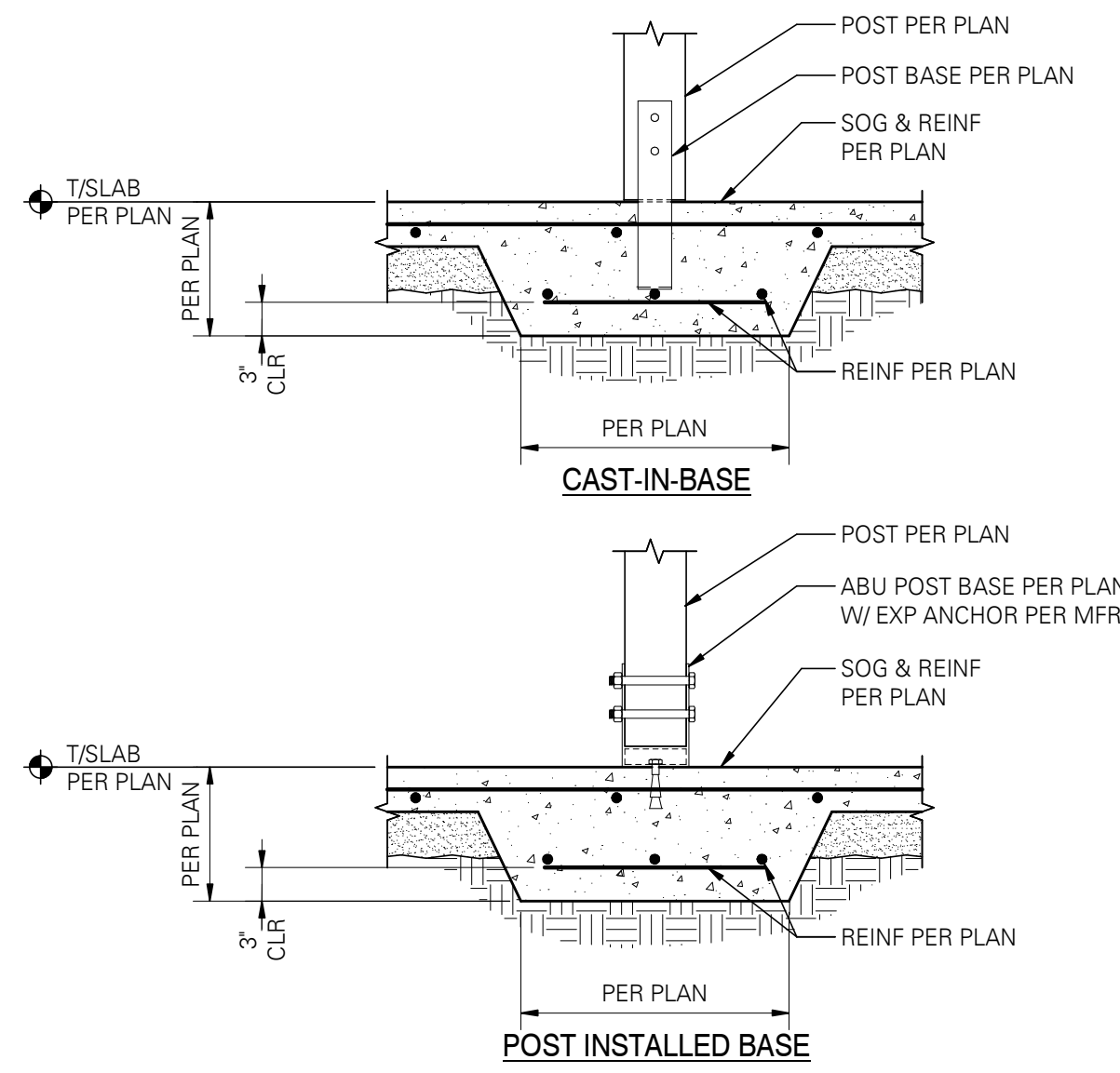
- ROWS SHALL BE 1/2" MINIMUM APART, STAGGERED NAILS.
- PLACE HALF OF THE REQUIRED NAILS AT EACH END OF STRAP.

PERMIT		
REVISIONS:		
#	DATE	DESCRIPTION

DATE: JULY 2024  
SHEET TITLE:  
**STRUCTURAL FOUNDATION DETAILS**

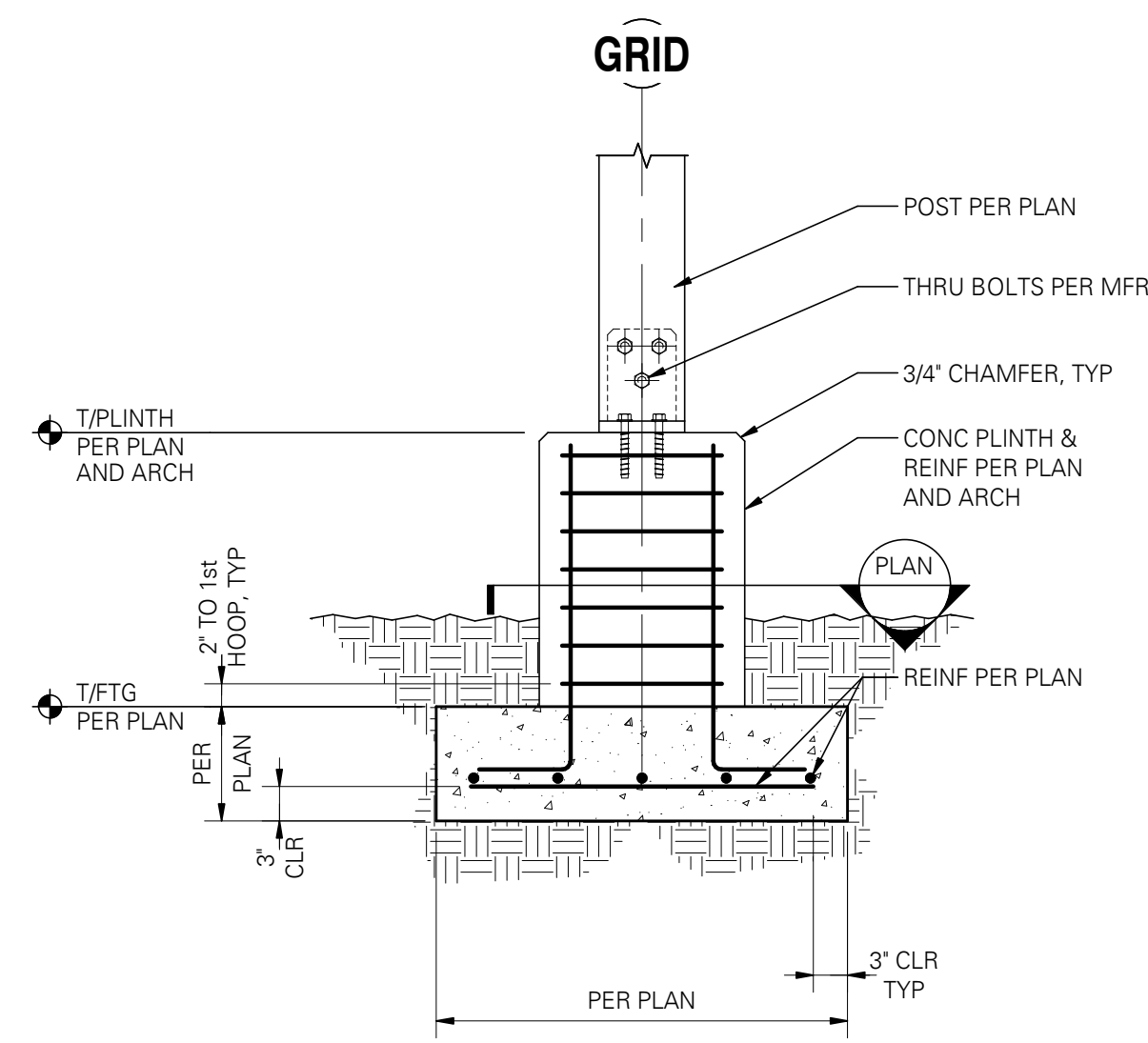
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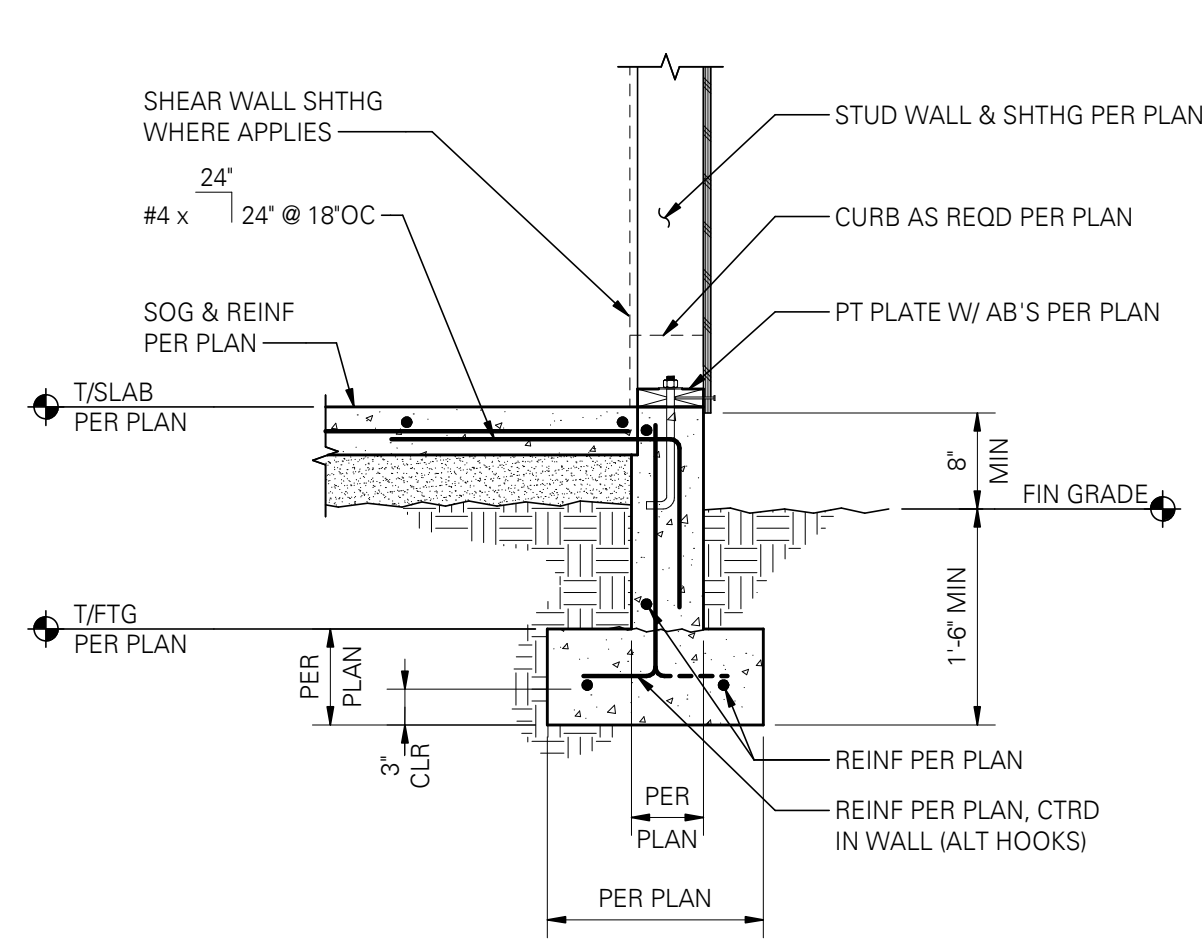
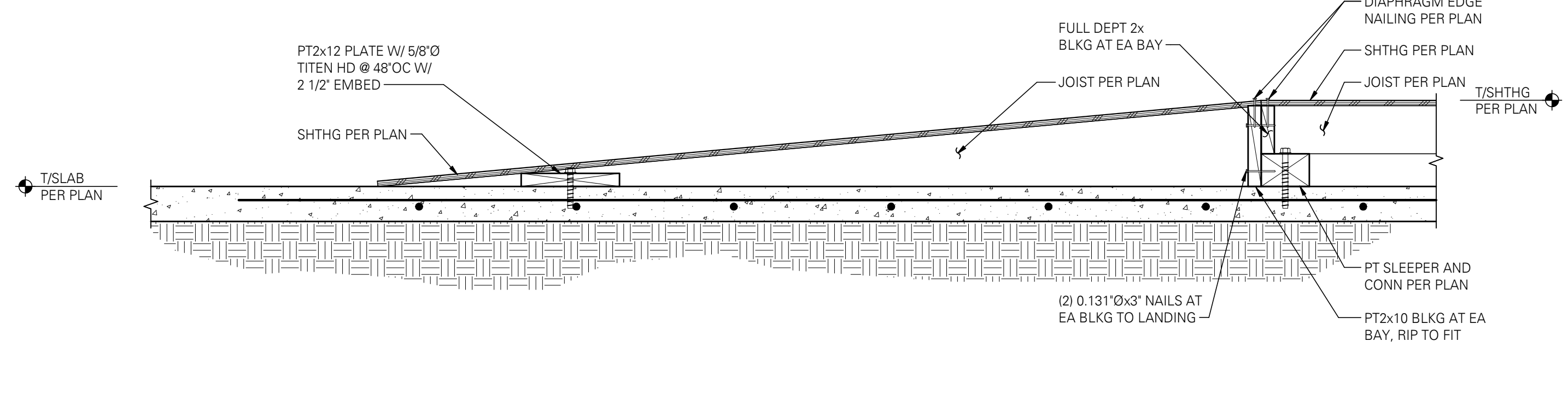


**NOTE:**  
COLD JOINT BETWEEN FOOTING AND SLAB NOT PERMITTED.  
**INTERIOR THICKENED SLAB  
FOOTING AT WOOD POST**

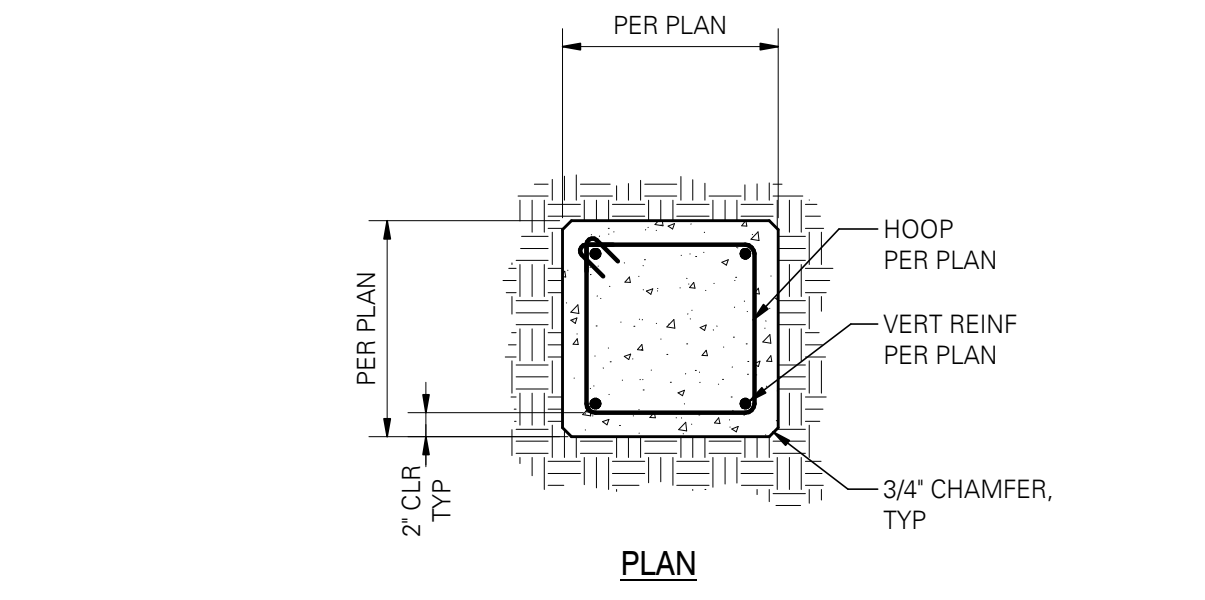
**1** SCALE: 3/4" = 1'-0" (03010)



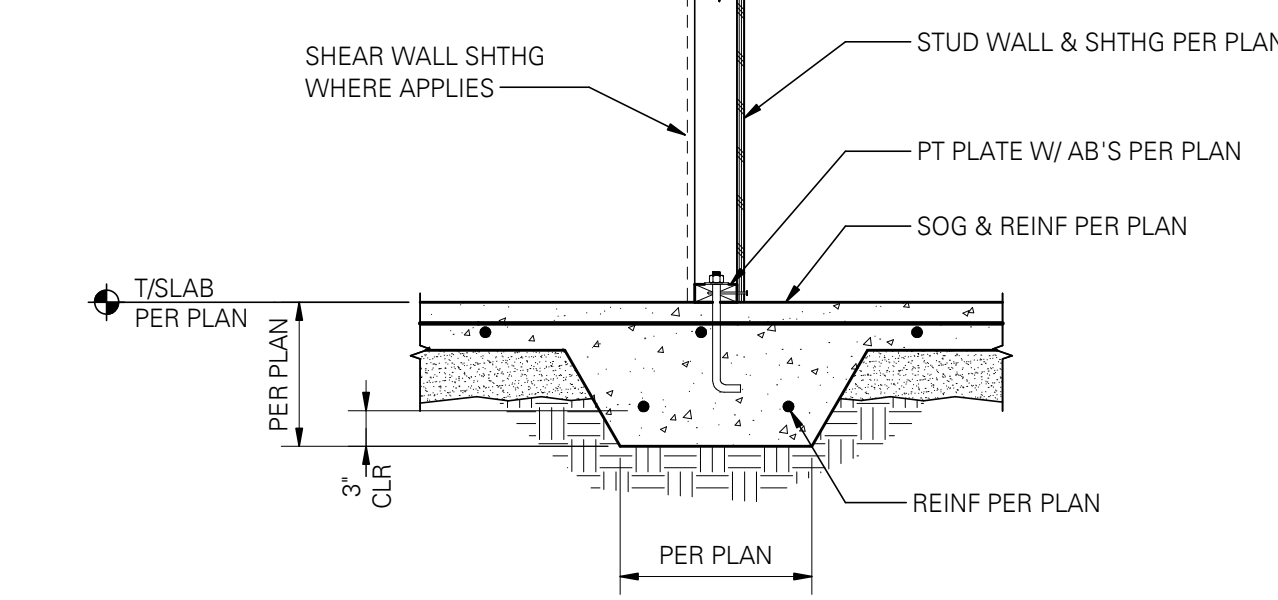
**3** SCALE: 1" = 1'-0" (03207M)



**5** SCALE: 3/4" = 1'-0" (03031)

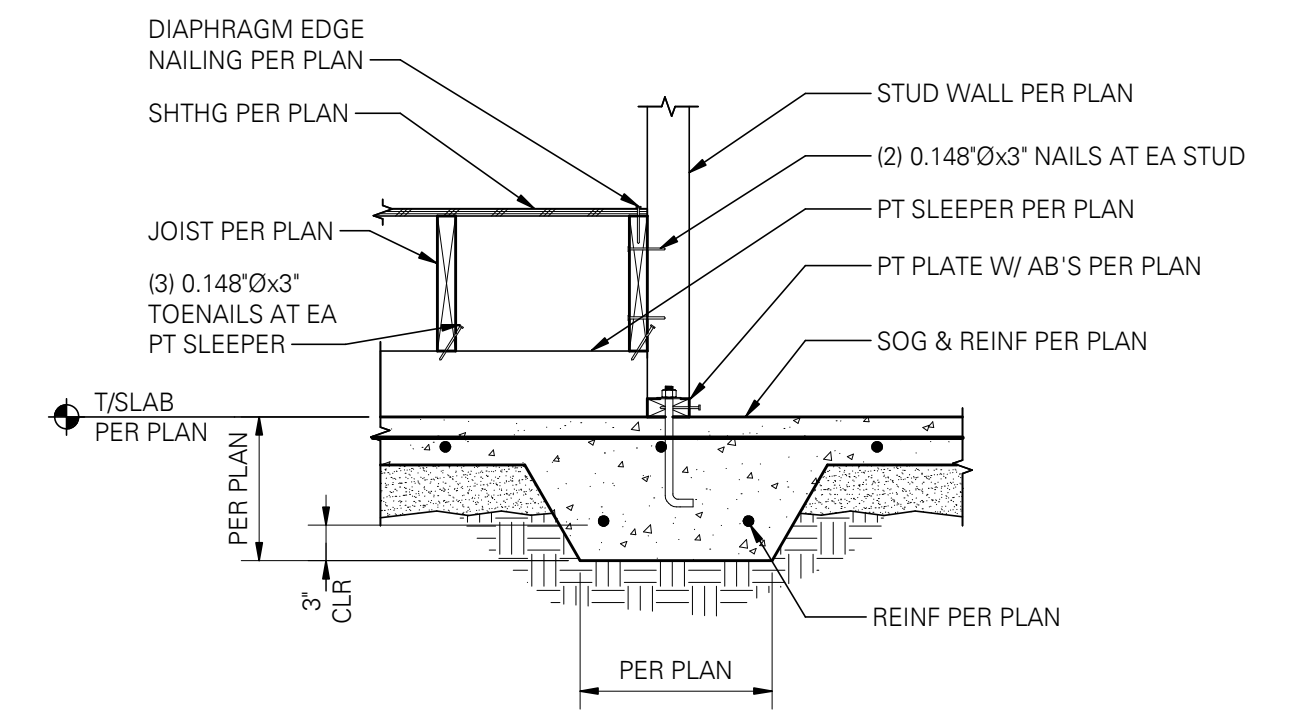


**6** SCALE: 3/4" = 1'-0" (03014)

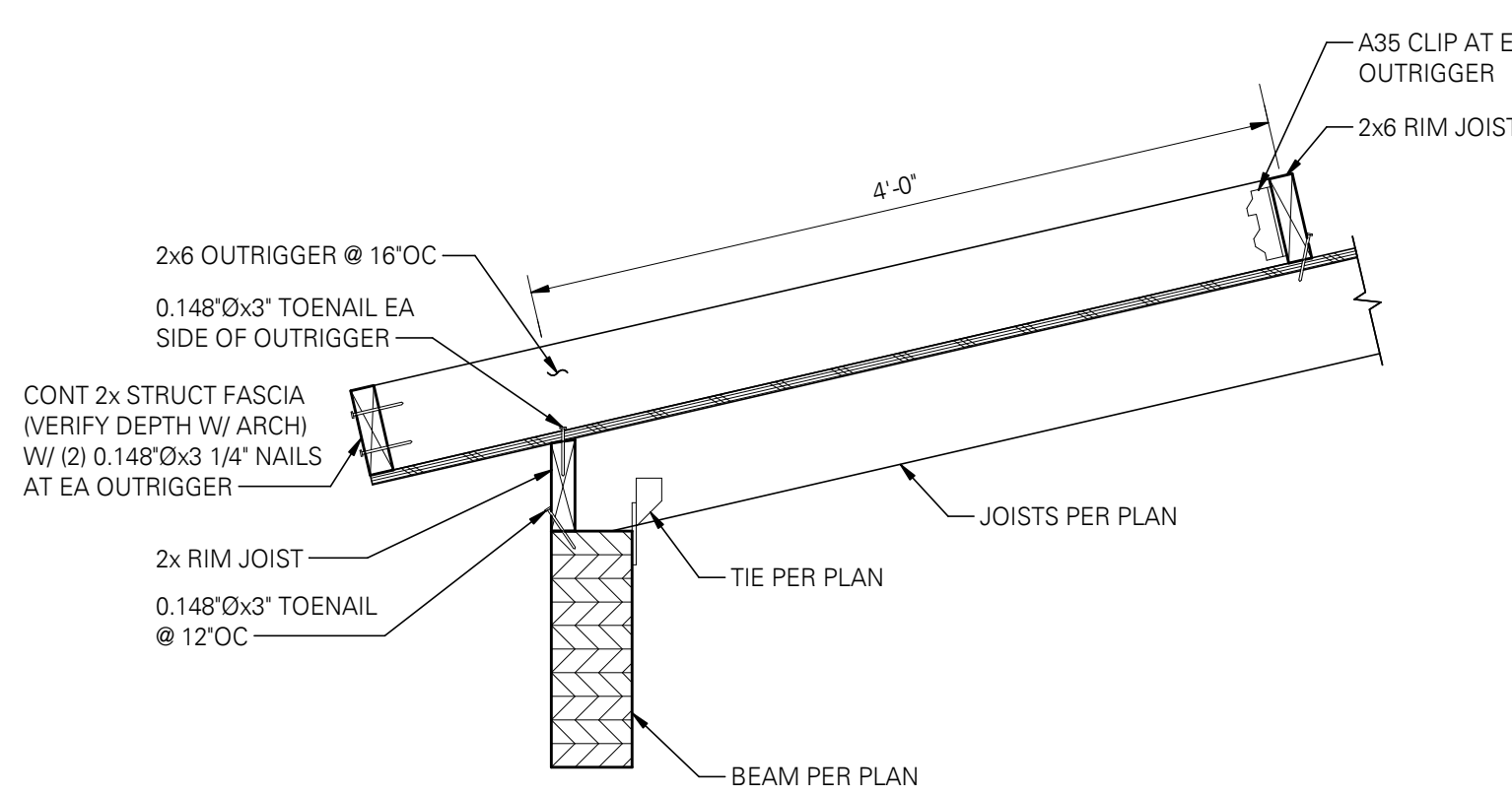


**NOTE:**  
HORIZONTAL COLD JOINT BETWEEN FOOTING AND SLAB NOT PERMITTED.  
**INTERIOR THICKENED SLAB  
FOOTING AT STUD WALL**

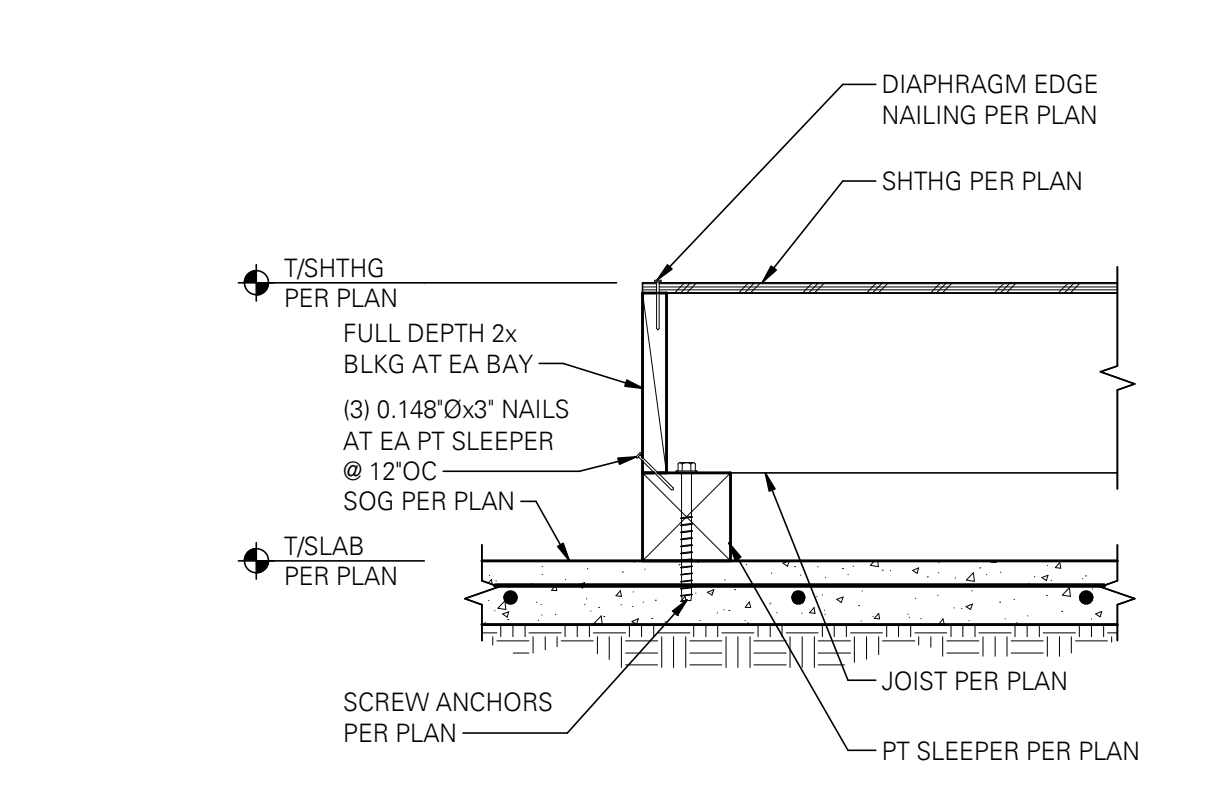
**7** SCALE: 3/4" = 1'-0" (03020)



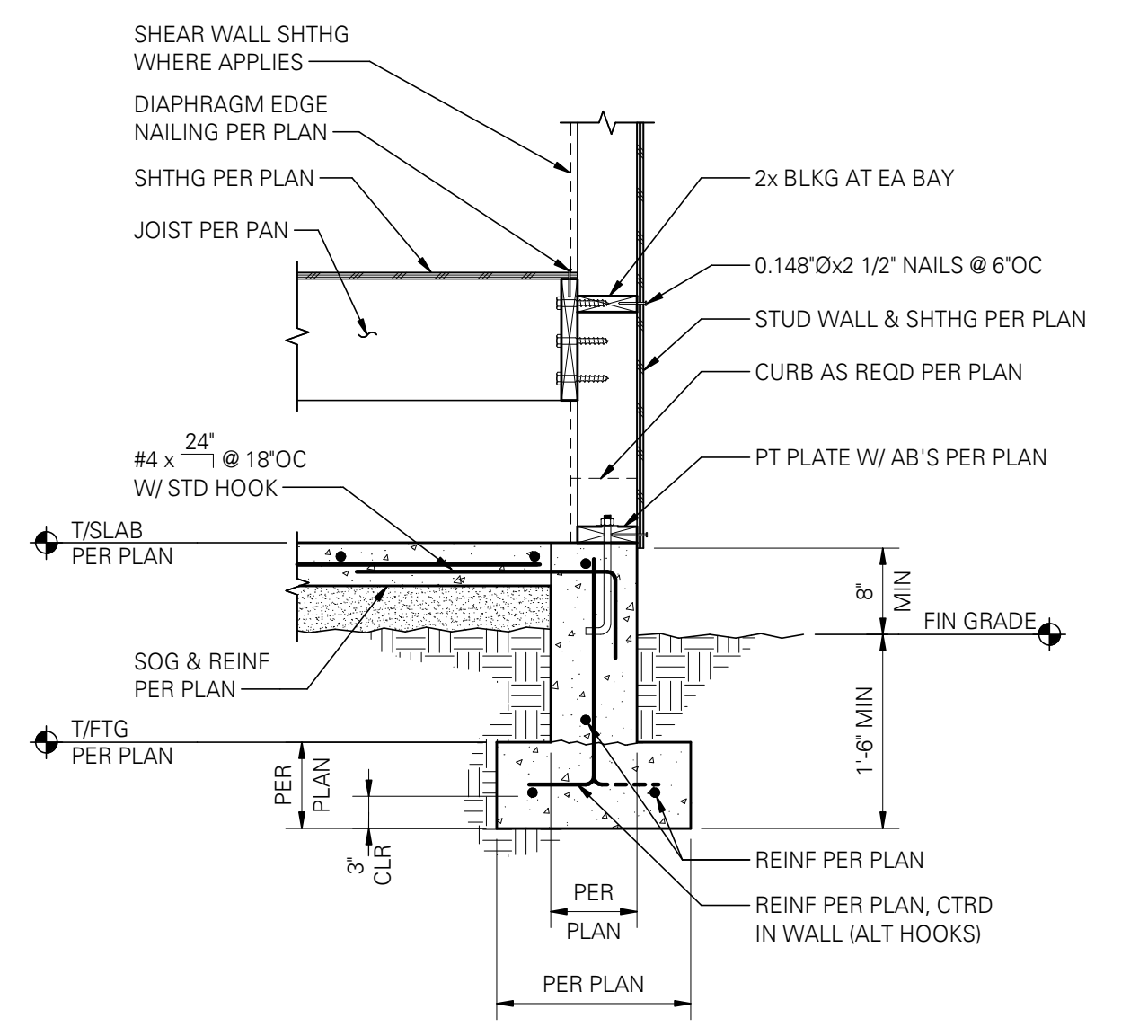
**8** SCALE: 3/4" = 1'-0" (03020)



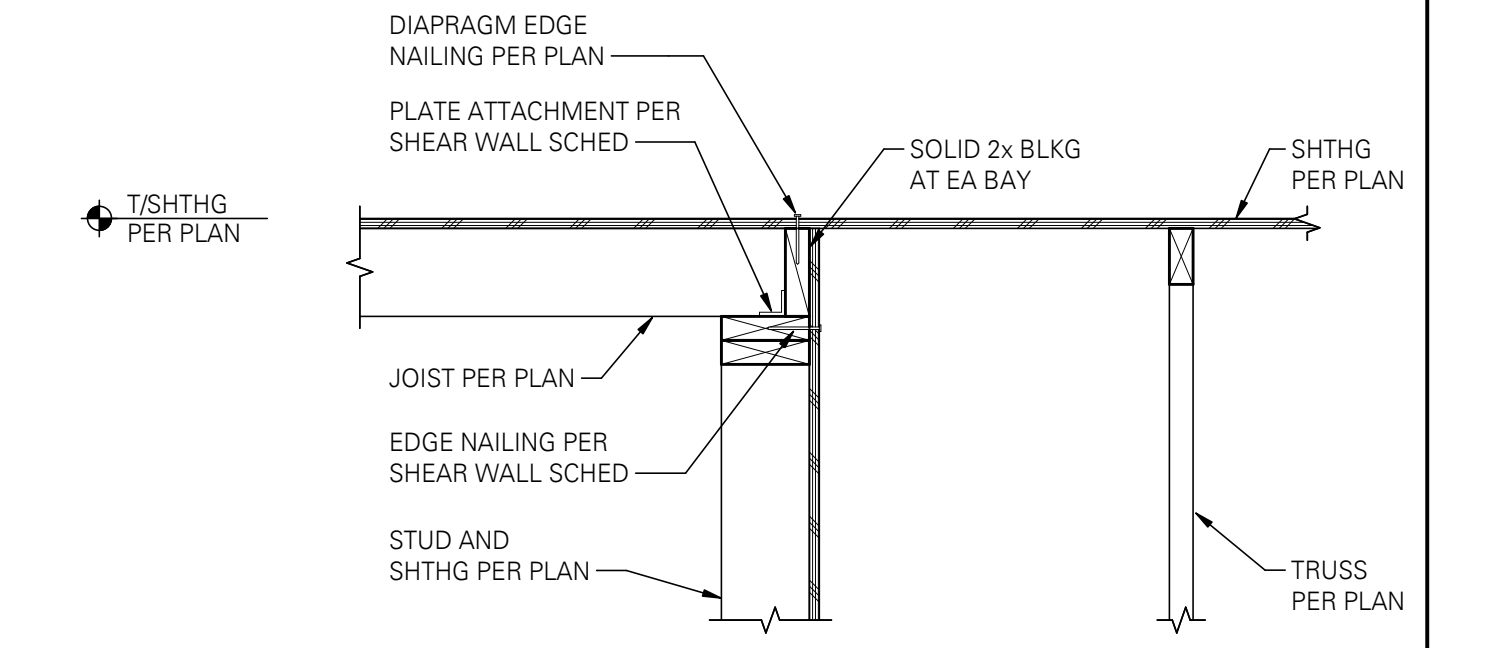
**9** SCALE: 1" = 1'-0"



**10** SCALE: 1" = 1'-0" (03207)



**11** SCALE: 3/4" = 1'-0" (03031)



**12** SCALE: 1" = 1'-0"

PERMIT		
REVISIONS:	#	DATE DESCRIPTION

DATE: JULY 2024  
SHEET TITLE:  
**STRUCTURAL  
FOUNDATION  
DETAILS**

**S4.2**

**FOR PERMIT**  
Sealings for construction until Contractor receives written approval for use in construction by the authority having jurisdiction and DDI Engineers.



FOR PERMIT  
Drawings for construction until Contractor receives written approval for use in construction by the authority having jurisdiction and DCI Engineers.

PERMIT

REVISIONS:

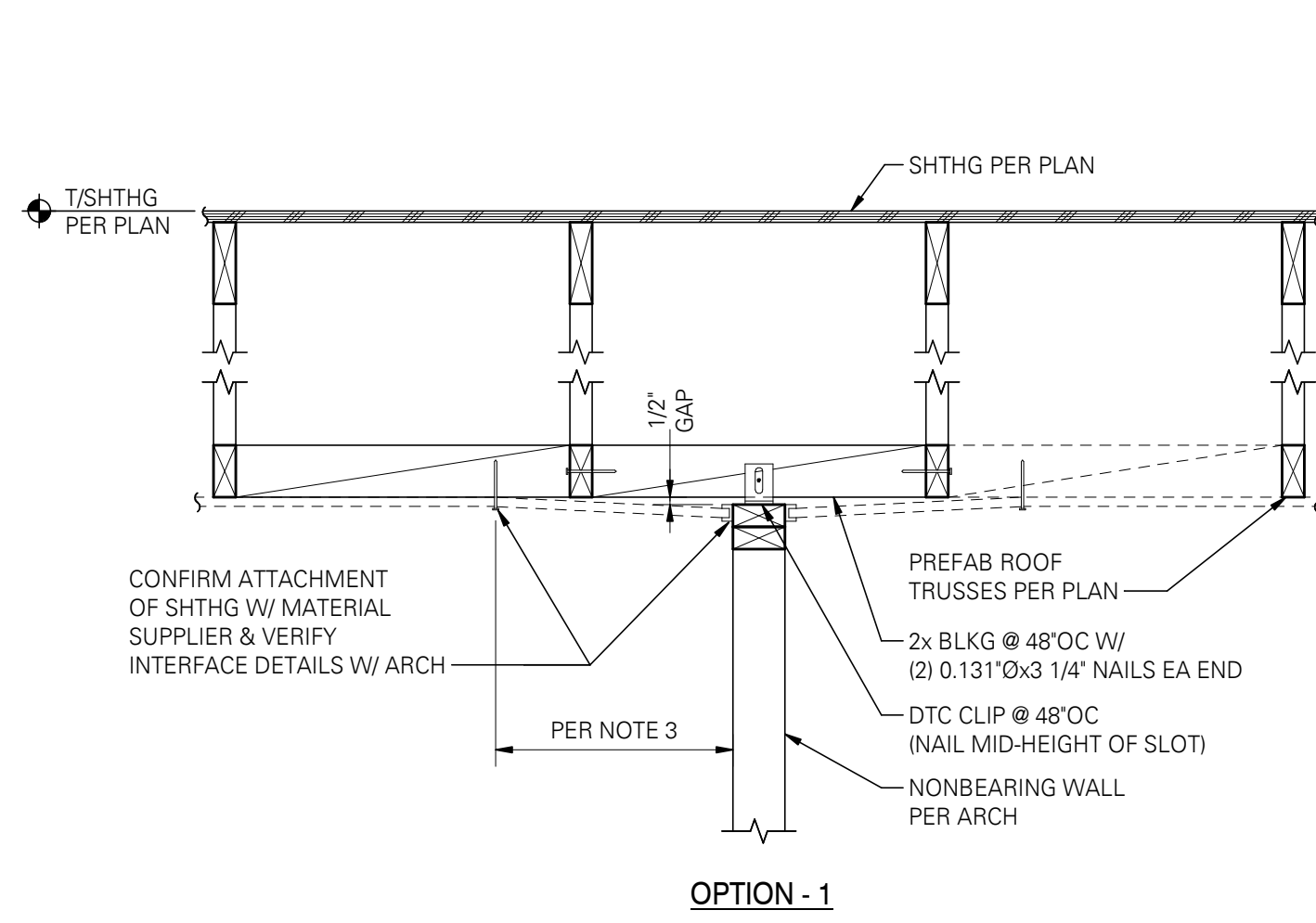
#	DATE	DESCRIPTION

DATE: JULY 2024

SHEET TITLE:  
STRUCTURAL  
FRAMING DETAILS

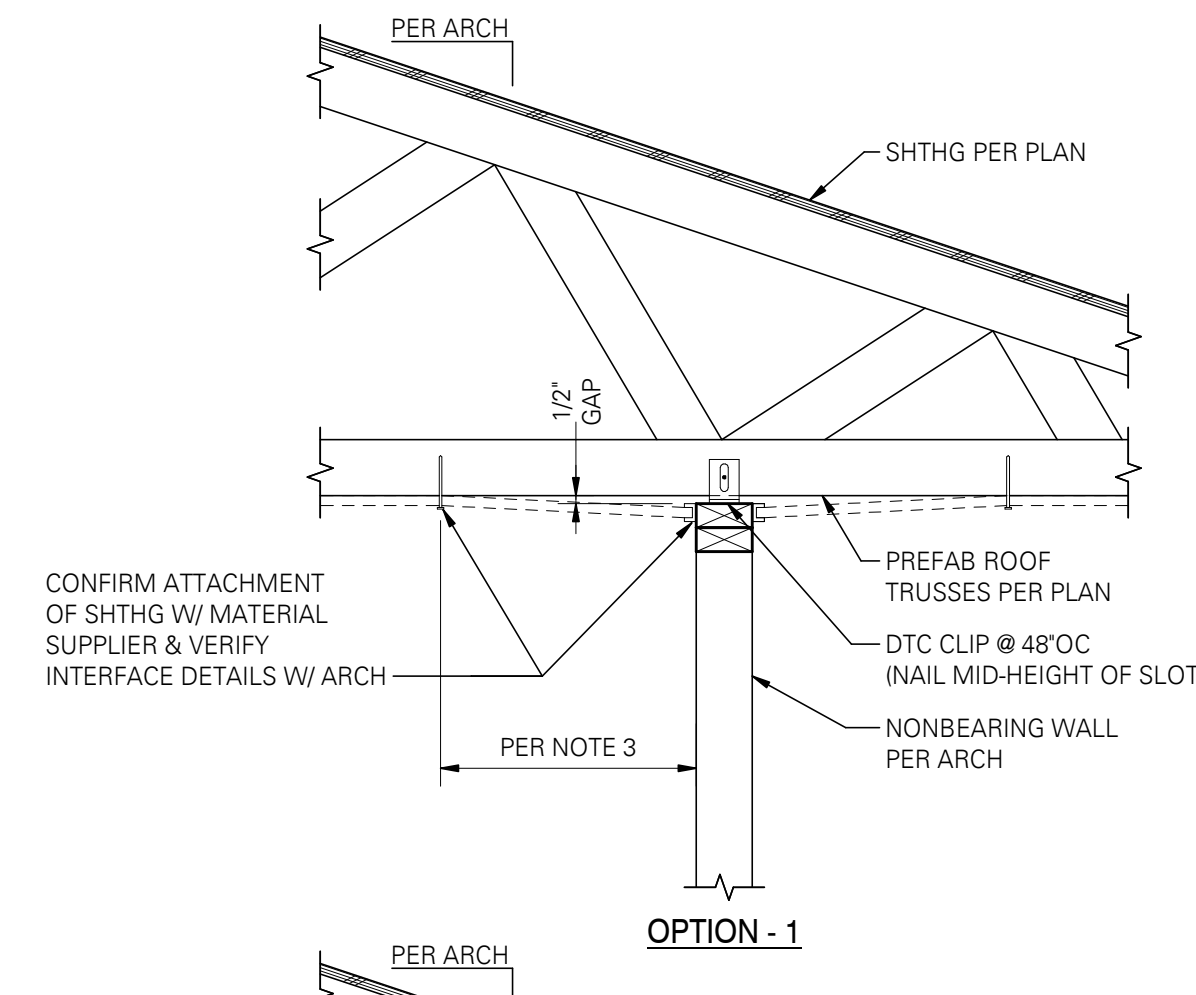
S5.1

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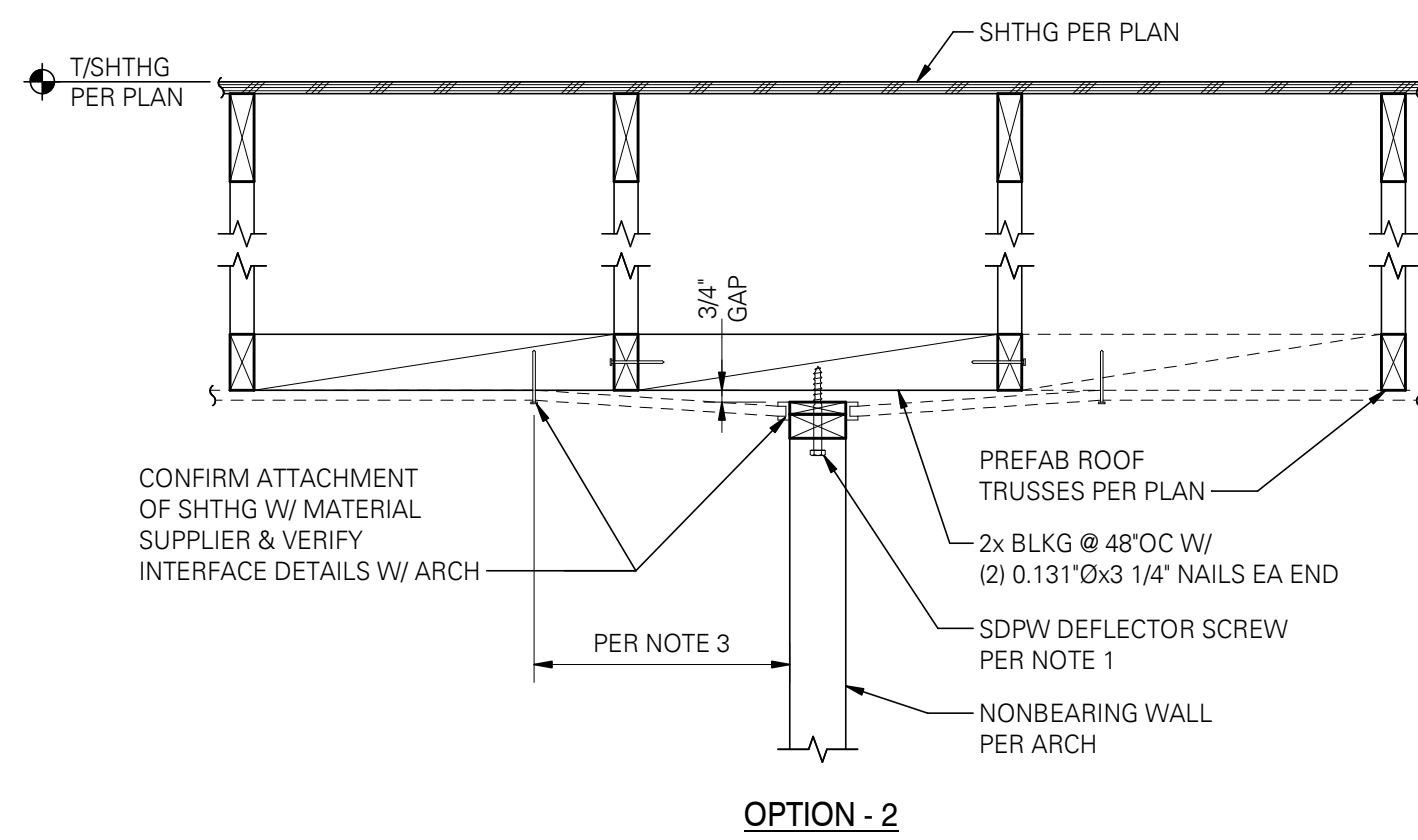
5 NON-STRUCTURAL PARTITION WALL PARALLEL TO ROOF FRAMING

SCALE: 1" = 1'-0" (06905B)



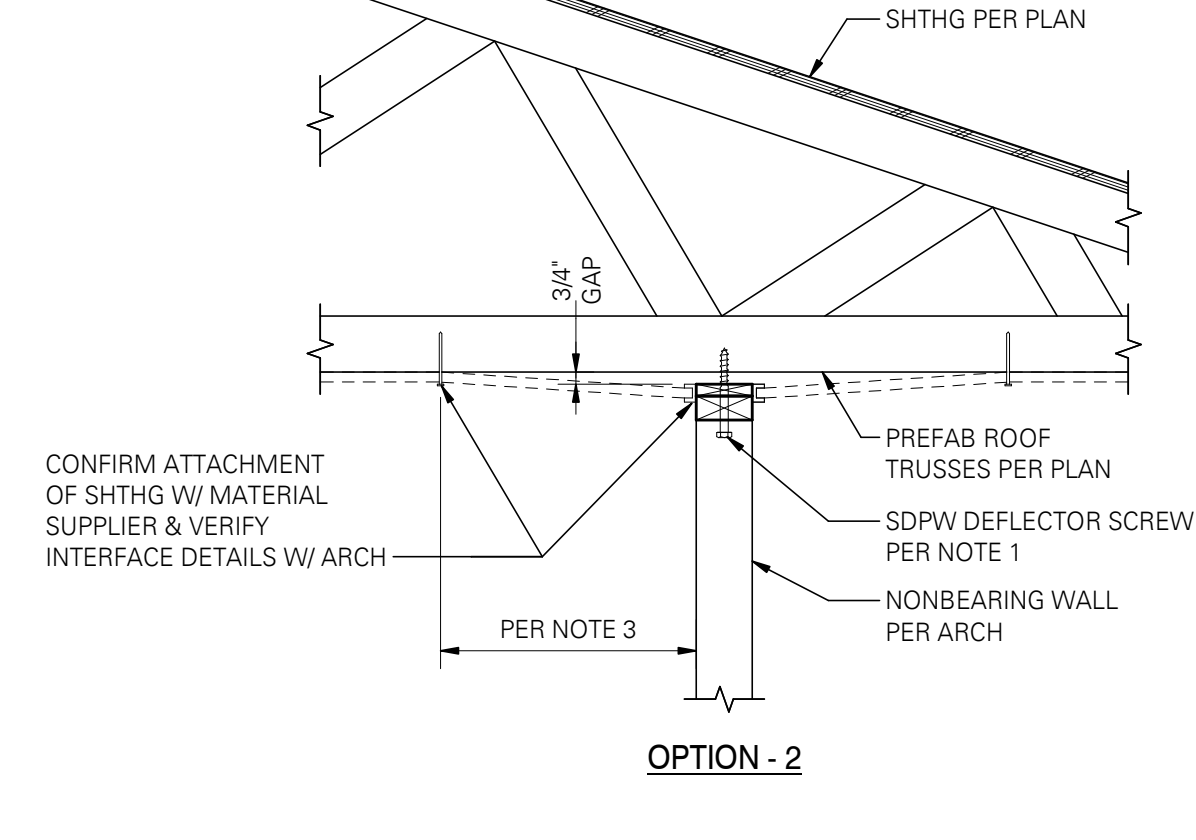
6 NON-STRUCTURAL PARTITION WALL PERPENDICULAR TO ROOF FRAMING

SCALE: 1" = 1'-0" (06905C)



7 EXTERIOR WALL PERPENDICULAR TO ROOF TRUSSES

SCALE: 1" = 1'-0" (06065E)

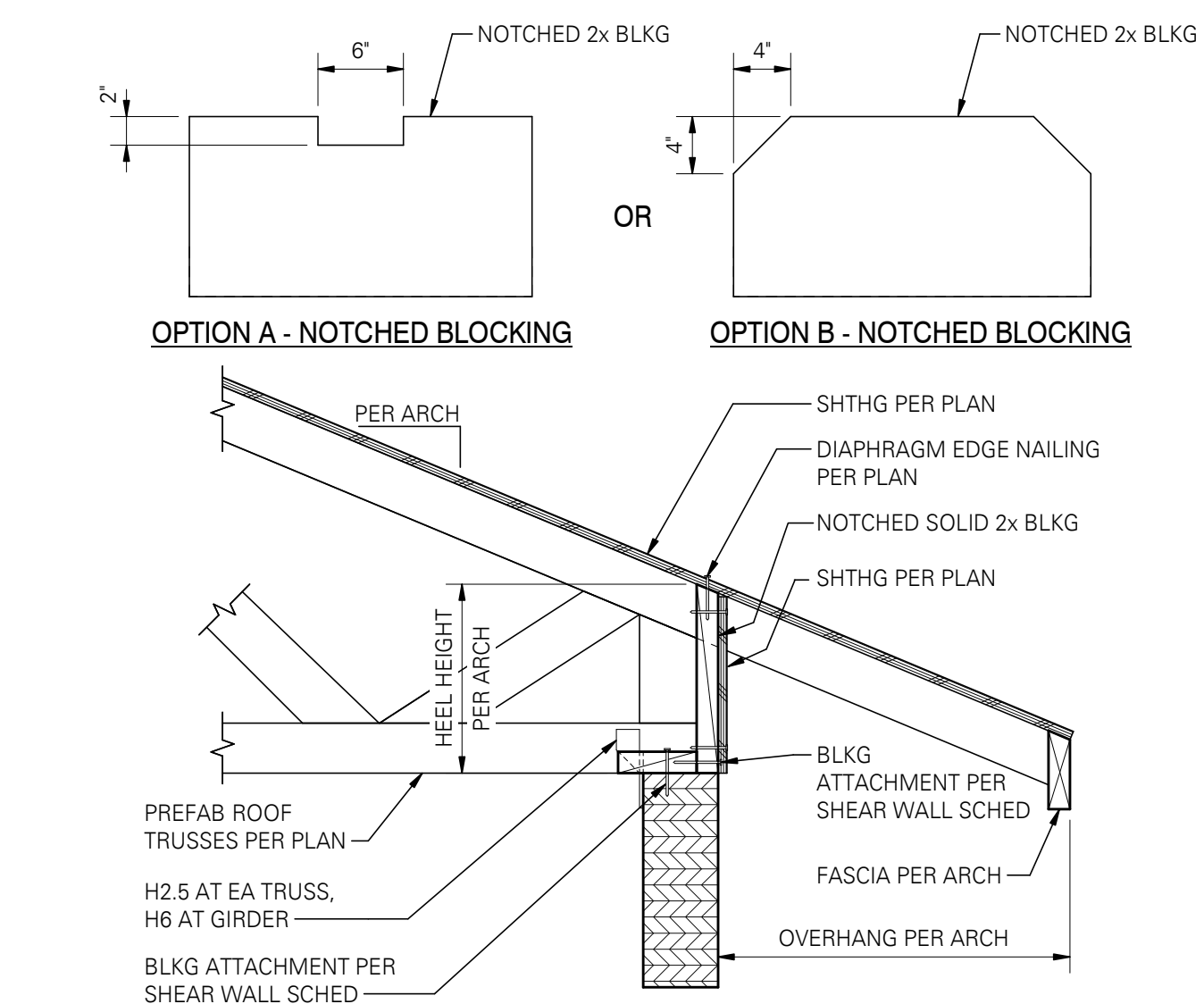


8 EXTERIOR WALL PERPENDICULAR TO RAFTER WITH OUTRIGGER

SCALE: 1" = 1'-0" (06068)

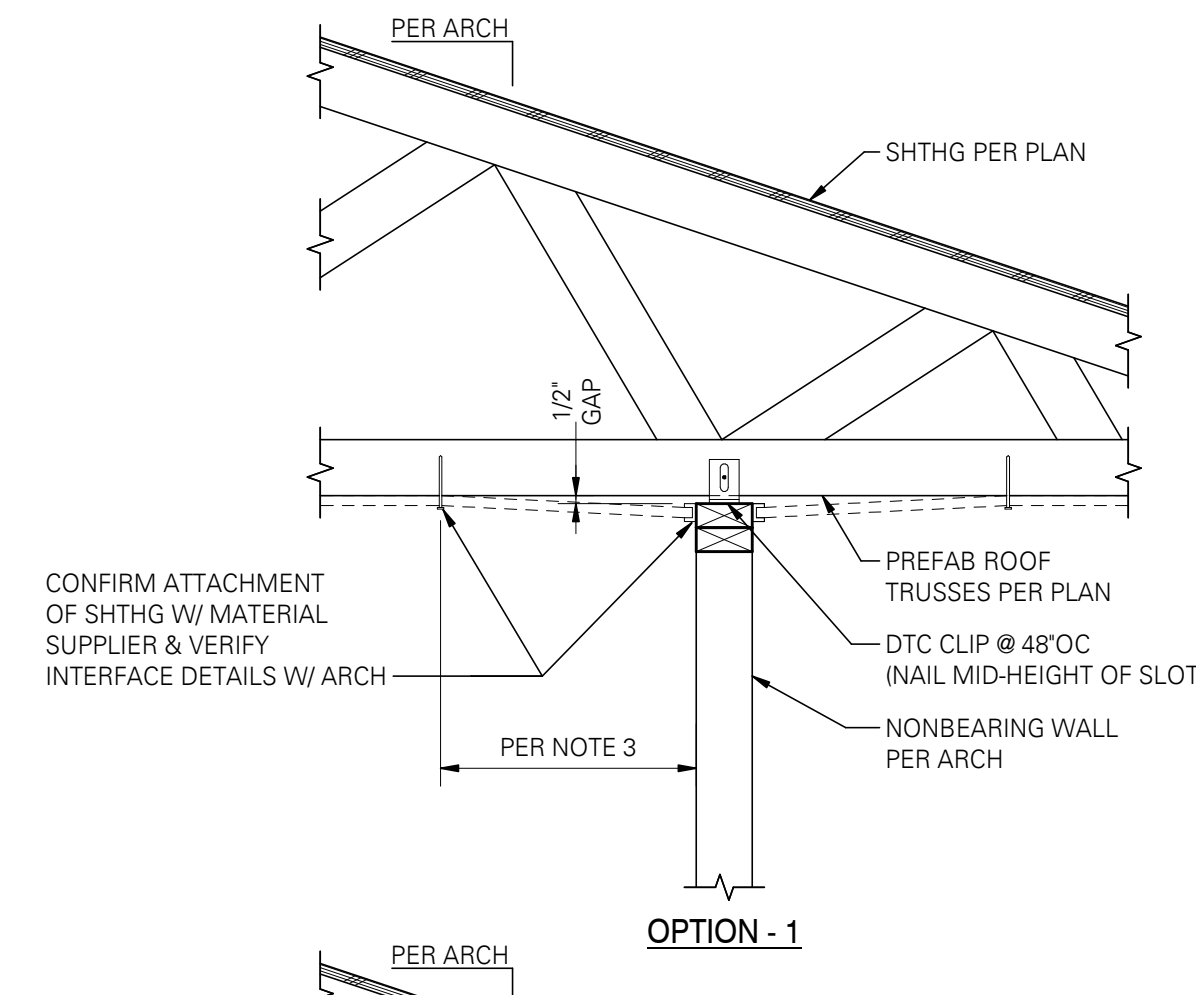
- NOTES:
- CONTRACTOR TO REFERENCE SDPW DEFLECTOR SCREW SPECIFICATIONS IN REGARDS TO PRODUCT TYPE AT 1x AND 2x TOP PLATES OR (2) 2x TOP PLATES. FOR 1x AND 2x TOP PLATES A MAXIMUM SPACING EQUALS 42" OC AND FOR (2) 2x TOP PLATES A MAXIMUM SPACING EQUALS 48" OC. SDPW DEFLECTOR SCREWS MUST BE PLACED AT MINIMUM 6" FROM EACH END OF WALL. INSTALL WITH 3/4" OFFSET BELOW BOTTOM OF PLATE AND HEAD OF SDPW DEFLECTOR SCREW.
  - DCI ENGINEERS IS ONLY RESPONSIBLE FOR THE POSITIVE CONNECTION (DTC CLIP AND SDPW DEFLECTOR SCREW) FROM THE NONBEARING WALL TO THE PRIMARY STRUCTURE. THE CONTRACTOR IS TO CONFIRM THE ATTACHMENT OF THE CEILING SHEATHING TO THE NONBEARING WALL WITH THE SUB-CONTRACTOR PERFORMING THE FRAMING, THE ARCHITECT, THE MATERIAL SUPPLIER, AND THE ACOUSTICAL CONSULTANT AS THERE ARE VARIOUS CONSIDERATIONS INCLUDING MATERIAL ATTACHMENT SPECIFICATIONS, PREFERENTIAL FRAMING TECHNIQUES BY THE SUB-CONTRACTOR, FIRE RATING AND ACOUSTICAL CAULKING REQUIREMENTS, AND NONBEARING WALL FINISH INTERFACE REQUIREMENTS. ALL OF WHICH ARE OUTSIDE OF DCI ENGINEERS EXPERTISE.
  - 16" MINIMUM, 24" MAXIMUM. CONFIRM SPACING OF CONNECTION WITH MATERIAL SUPPLIER, MATERIAL SUPPLIER TO ACCOUNT FOR MOVEMENT OF STRUCTURE.
  - 1x TOP PLATE CAN BE REMOVED GIVEN THE GAP IS 1/2" MAXIMUM.

- NOTES:
- CONTRACTOR TO REFERENCE SDPW DEFLECTOR SCREW SPECIFICATIONS IN REGARDS TO PRODUCT TYPE AT 1x AND 2x TOP PLATES OR (2) 2x TOP PLATES. FOR 1x AND 2x TOP PLATES A MAXIMUM SPACING EQUALS 42" OC AND FOR (2) 2x TOP PLATES A MAXIMUM SPACING EQUALS 48" OC. SDPW DEFLECTOR SCREWS MUST BE PLACED AT MINIMUM 6" FROM EACH END OF WALL. INSTALL WITH 3/4" OFFSET BELOW BOTTOM OF PLATE AND HEAD OF SDPW DEFLECTOR SCREW.
  - DCI ENGINEERS IS ONLY RESPONSIBLE FOR THE POSITIVE CONNECTION (DTC CLIP AND SDPW DEFLECTOR SCREW) FROM THE NONBEARING WALL TO THE PRIMARY STRUCTURE. THE CONTRACTOR IS TO CONFIRM THE ATTACHMENT OF THE CEILING SHEATHING TO THE NONBEARING WALL WITH THE SUB-CONTRACTOR PERFORMING THE FRAMING, THE ARCHITECT, THE MATERIAL SUPPLIER, AND THE ACOUSTICAL CONSULTANT AS THERE ARE VARIOUS CONSIDERATIONS INCLUDING MATERIAL ATTACHMENT SPECIFICATIONS, PREFERENTIAL FRAMING TECHNIQUES BY THE SUB-CONTRACTOR, FIRE RATING AND ACOUSTICAL CAULKING REQUIREMENTS, AND NONBEARING WALL FINISH INTERFACE REQUIREMENTS. ALL OF WHICH ARE OUTSIDE OF DCI ENGINEERS EXPERTISE.
  - 16" MINIMUM, 24" MAXIMUM. CONFIRM SPACING OF CONNECTION WITH MATERIAL SUPPLIER, MATERIAL SUPPLIER TO ACCOUNT FOR MOVEMENT OF STRUCTURE.
  - 1x TOP PLATE CAN BE REMOVED GIVEN THE GAP IS 1/2" MAXIMUM.



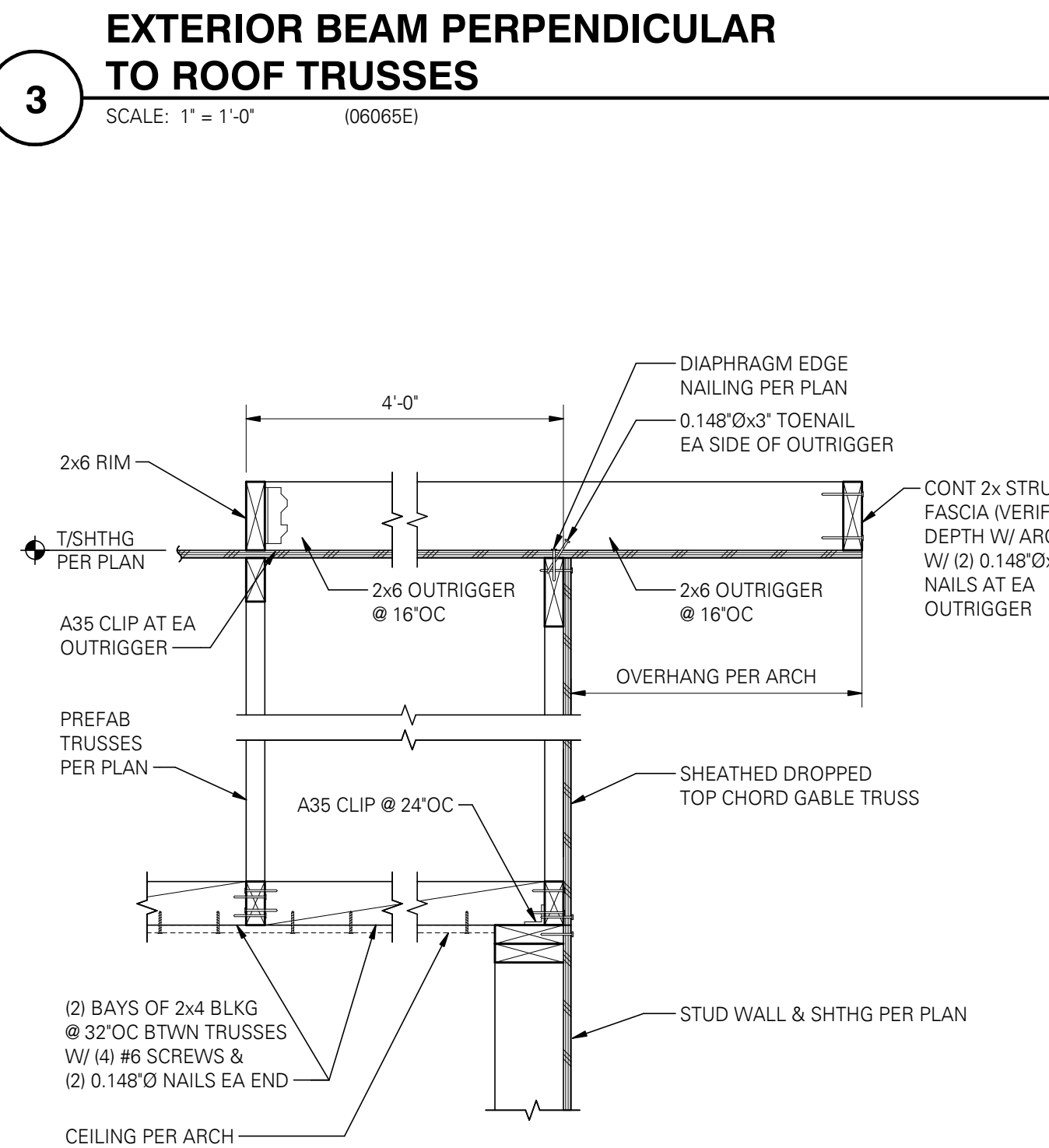
9 TYPICAL EXTERIOR WALL PARALLEL TO ROOF JOISTS WITH OVERHANG

SCALE: 1" = 1'-0" (06060AM)



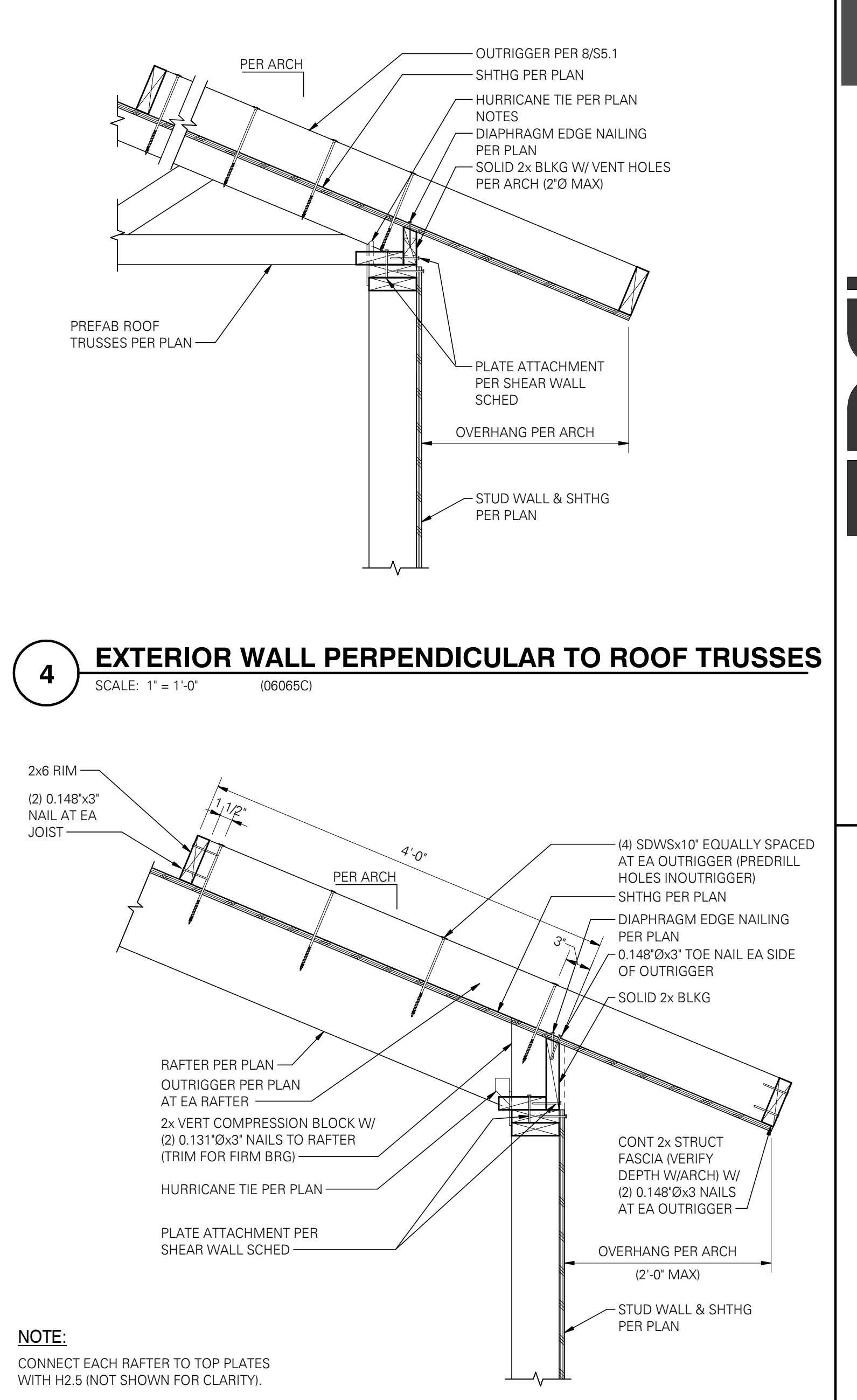
10 JOIST TO GLULAM CONNECTION AT ROOF

SCALE: 1" = 1'-0" (06064A)



11 EXTERIOR DORMER WALLS AT HEAVY TIMBER TRUSSES

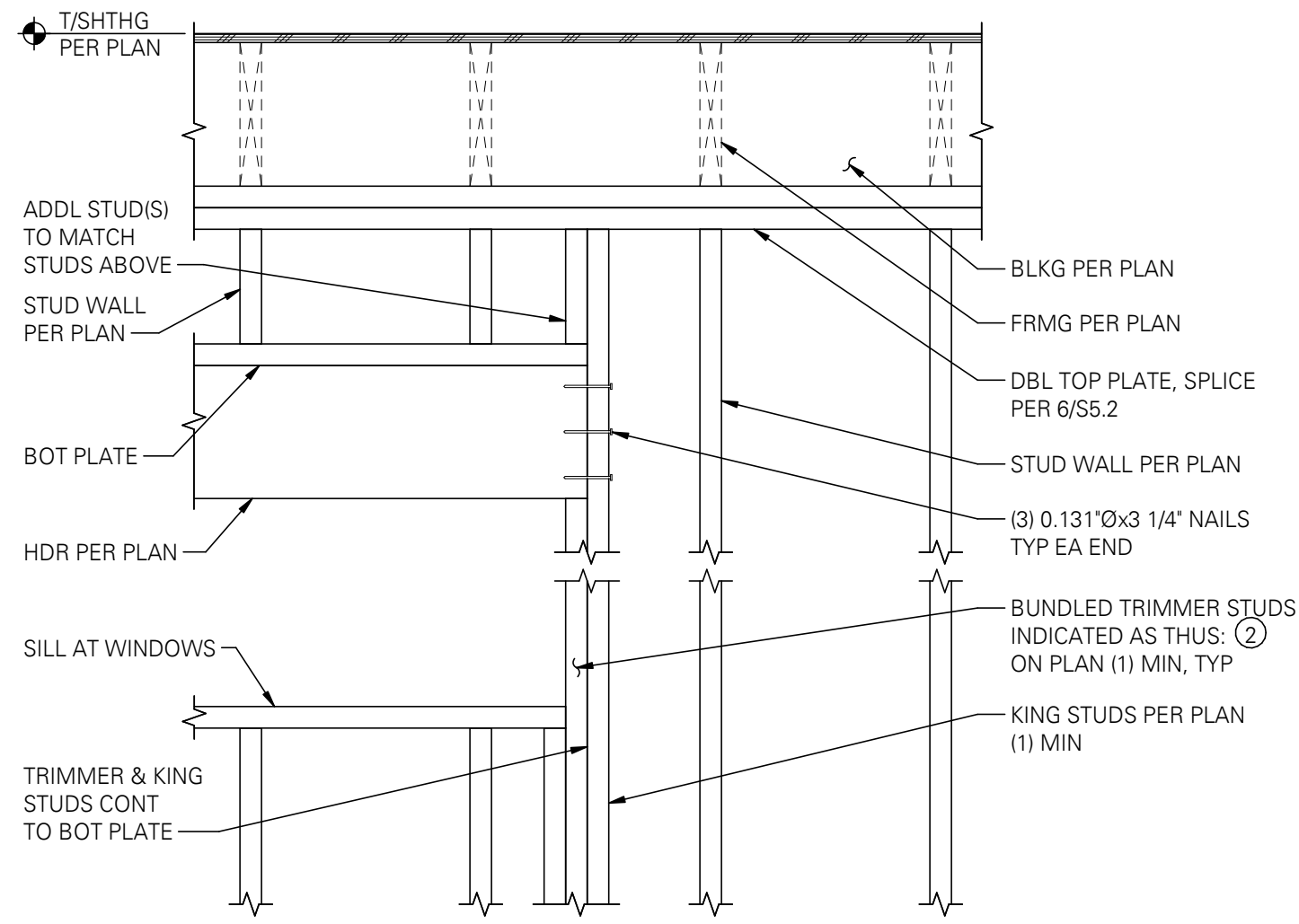
SCALE: 1" = 1'-0" (06064A)



12 HEAVY TIMBER TRUSS ROOF CONNECTION AT DORMER

SCALE: 3/4" = 1'-0" (06068)





**1 TYPICAL HEADER**

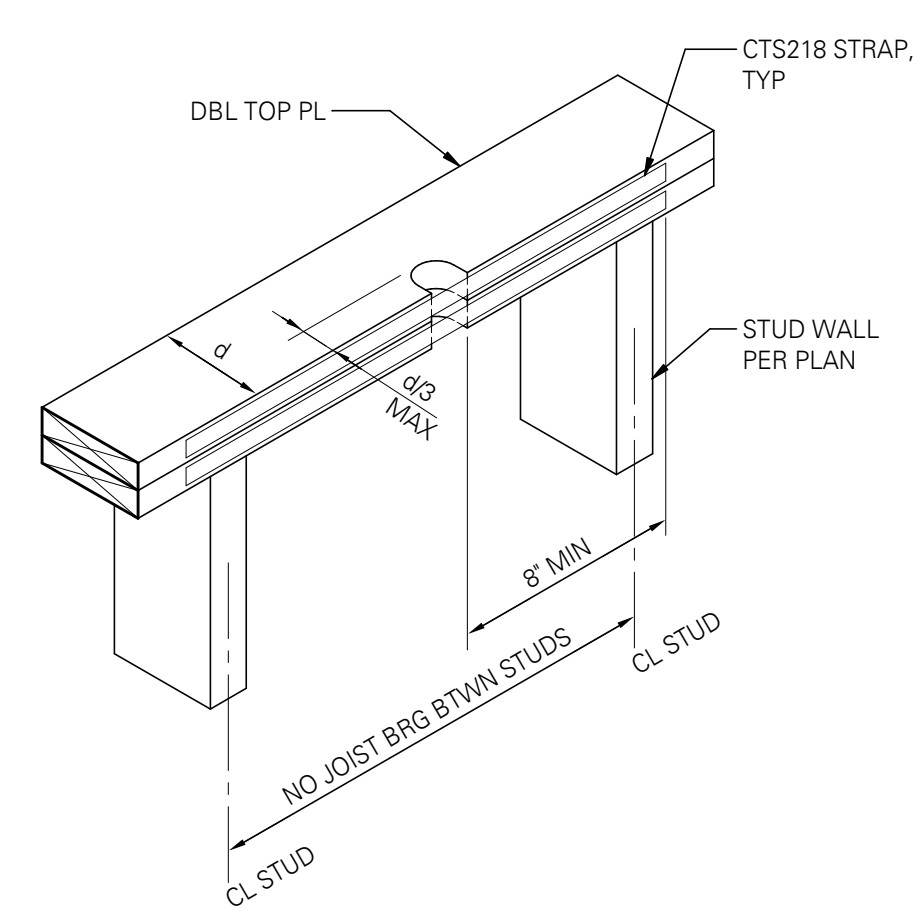
SCALE: 1" = 1'-0" (06210M)

INSTALLATION TYPE	CAST-IN-PLACE (PRE-AUTHORIZED) (2)				DRILL-IN OPTIONS (SUBMITTAL REQUIRED) (3)		
	BOLT TYPE	STANDARD J-BOLT	HEADED ANCHOR	THREADED ROD ANCHOR	SIMPSON 'SSTB' ANCHOR BOLT	ADHESIVE ANCHOR	EXPANSION ANCHOR
EMBEDMENT REQUIREMENTS	7 1/2"	12x DIA	1/4" MIN	PER MFR	NOTE (4)	NOTE (4)	NOTE (4)
LIMITS	5/8"Ø MAX	5/8"Ø THRU 2 1/2"Ø	5/8"Ø THRU 2 1/2"Ø	FOR WOOD FRAME ONLY	NOT ALLOWED AT P-T SLAB	5/8"Ø THRU 1"Ø	5/8"Ø THRU 1"Ø

- NOTES:**
- (1) CONTRACTOR SHALL DETERMINE THE REQUIRED THREAD PROJECTION SUITABLE FOR THE THICKNESS OF MATERIAL BEING FASTENED PLUS GROUT ALLOWANCE, IF ANY, AND CONSTRUCTION TOLERANCES, UNO.
  - (2) CONTRACTOR MAY SELECT APPROPRIATE CAST-IN-PLACE ANCHOR BOLT OPTION WITHOUT SUBMITTAL.
  - (3) DRILL-IN OPTIONS ARE NOT APPROPRIATE AT ALL CONDITIONS. IF DRILL-IN METHOD IS PREFERRED, SUBMIT MANUFACTURER'S INFORMATION, ALLOWABLE LOAD VS EMBEDMENT DATA AND LOCATIONS OF WHERE SUBSTITUTIONS ARE REQUESTED. ENGINEER WILL DETERMINE IF SUBSTITUTION IS APPROPRIATE FOR LOCATION AND LOADING.
  - (4) EMBEDMENT OF DRILL-IN ANCHORS SHALL BE PER ENGINEER'S SUBMITTAL REVIEW COMMENTS. EMBEDMENT SHALL BE (9) NINE TIMES FOR NOMINAL ANCHOR DIAMETER, UNO.
  - (5) AT PRESSURE TREATED SILLS, PROVIDE HOT-DIPPED GALVANIZED OR STAINLESS STEEL ANCHORS.

**2 TYPICAL ANCHOR BOLT SCHEDULE**

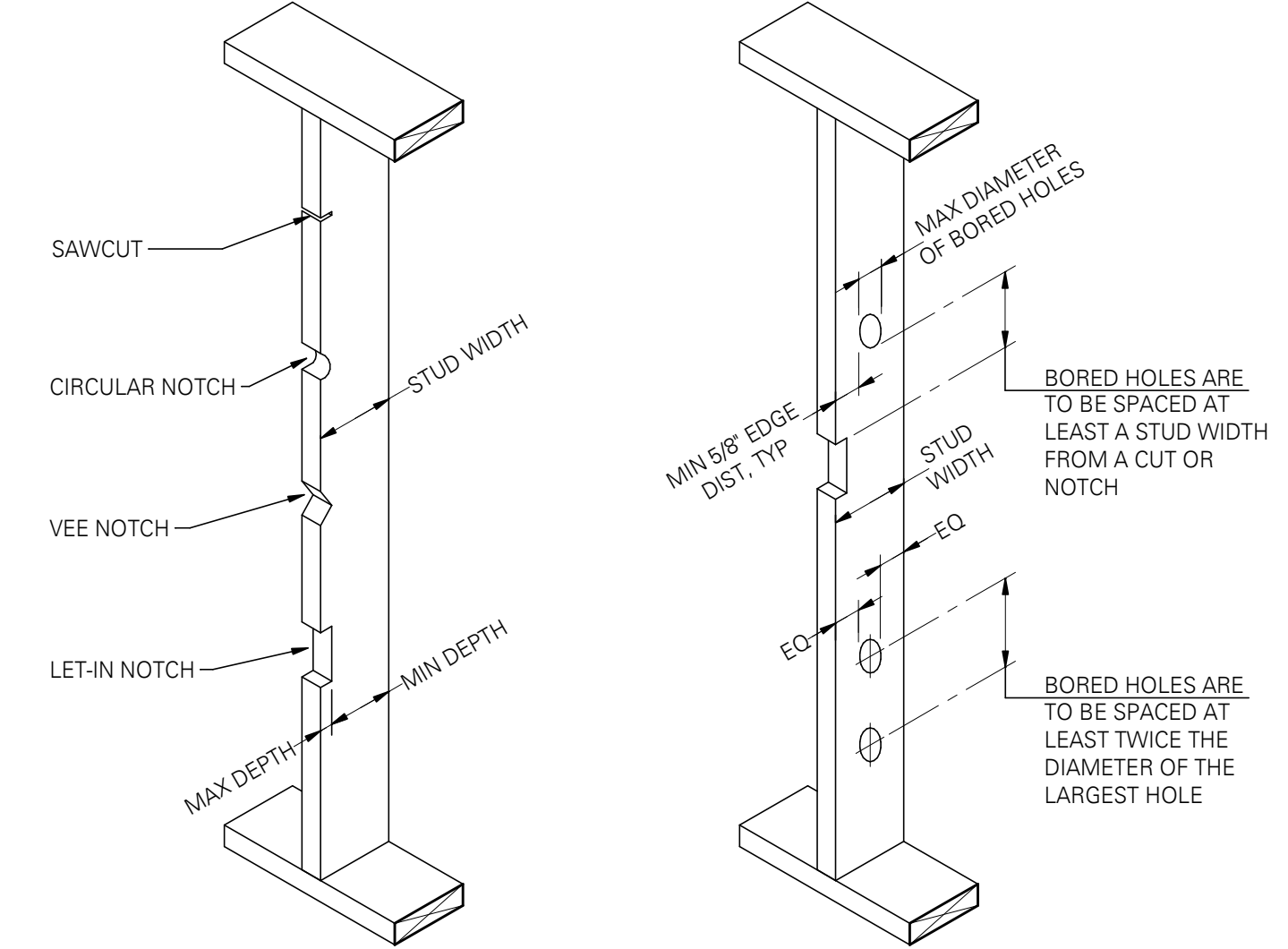
SCALE: 1" = 1'-0" (01901)



**3 TYPICAL NOTCHES AT TOP PLATES**

SCALE: 1" = 1'-0" (06908A)

**NOTE:**  
TYPICAL HOLES AND NOTCHES IN WOOD STUDS PER 8/S5.2.



BEARING WALL STUDS			BEARING WALL STUDS		
STUD SIZE	MAX DEPTH OF EDGE CUT OR NOTCH	MIN DEPTH REMAINING AFTER CUT OR NOTCH	STUD SIZE	MAX DIAMETER OF BORED HOLE	MIN DEPTH REMAINING AFTER BORED HOLE
2x4	7/8"	2 5/8"	2x4	1 3/8"	5/8" EA SIDE OF HOLE
2x6	1 3/8"	4 1/8"	2x6	2 3/16"	5/8" EA SIDE OF HOLE

**NOTE:**  
STUDS MAY NOT BE BORED IN EXCESS OF 40% OF THE STUD. IF STUDS ARE DOUBLED, BORINGS MAY BE INCREASED TO 60% OF STUD WIDTH PROVIDED NOT MORE THAN (2) SUCCESSIVE STUDS ARE BORED. BORINGS SHALL NOT BE MADE AT THE SAME SECTION WHERE CUT OR NOTCH HAS BEEN MADE.

NON-BEARING WALL STUDS			NON-BEARING WALL STUDS		
STUD SIZE	MAX DEPTH OF EDGE CUT OR NOTCH	MIN DEPTH REMAINING AFTER CUT OR NOTCH	STUD SIZE	MAX DIAMETER OF BORED HOLE	MIN DEPTH REMAINING AFTER BORED HOLE
2x4	1 3/8"	2 1/8"	2x4	2 1/16"	5/8" EA SIDE OF HOLE
2x6	2 3/16"	3 3/8"	2x6	3 1/4"	5/8" EA SIDE OF HOLE

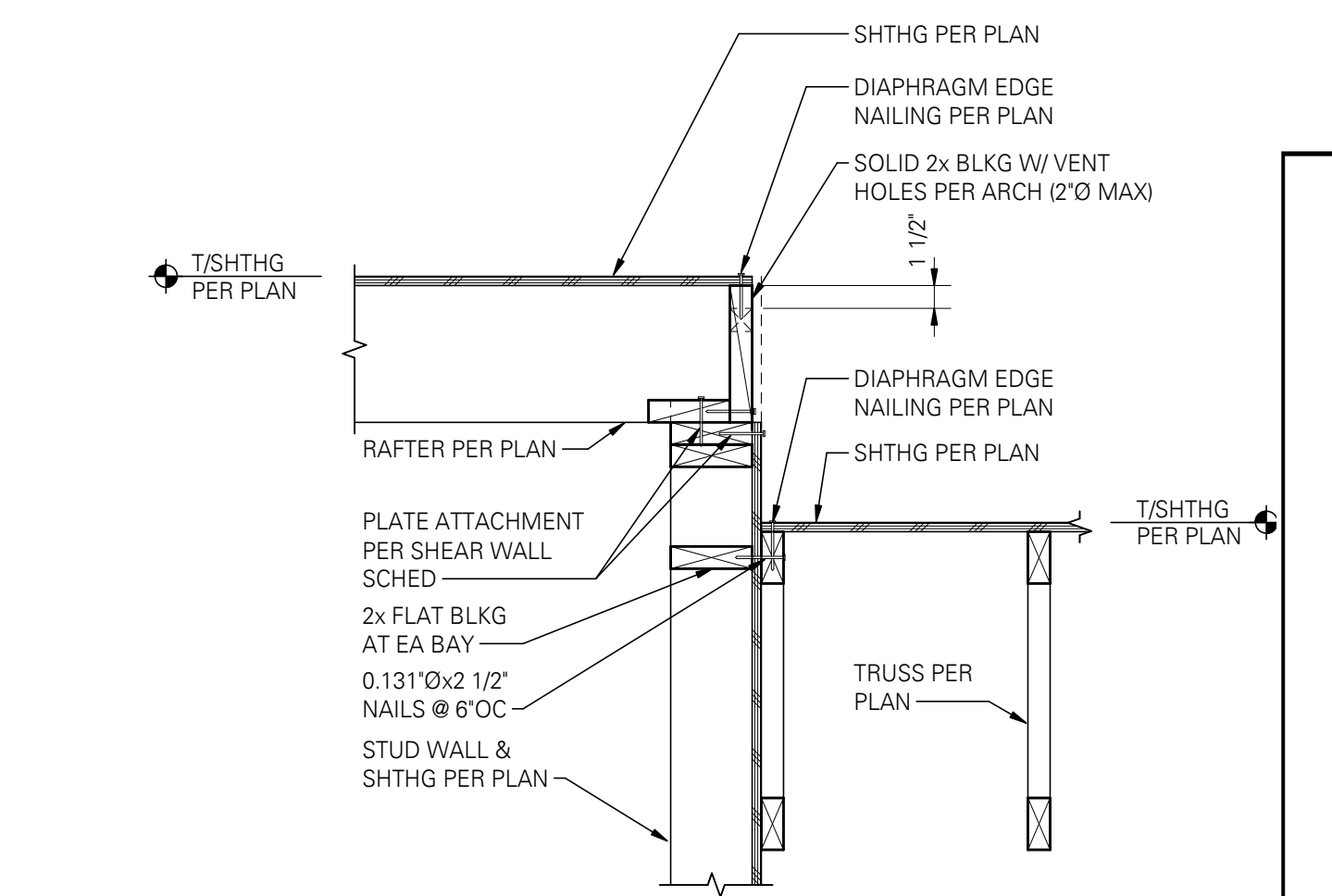
**NOTE:**  
STUDS MAY NOT BE BORED IN EXCESS OF 60% OF THE STUD. BORINGS SHALL NOT BE MADE AT THE SAME SECTION WHERE CUT OR NOTCH HAS BEEN MADE.

**CUTTING AND NOTCHING WOOD STUDS**  
**NOTE:** DO NOT NOTCH MORE THAN THREE ADJACENT STUDS WITHOUT REVIEW BY ENGINEER.

**BORED HOLES IN WOOD STUDS**  
**NOTE:** BORED HOLE NOT PERMITTED IN MORE THAN THREE ADJACENT STUDS WITHOUT REVIEW BY ENGINEER.

**8 TYPICAL HOLES & NOTCHES IN WOOD STUDS**

SCALE: 1" = 1'-0" (06908)



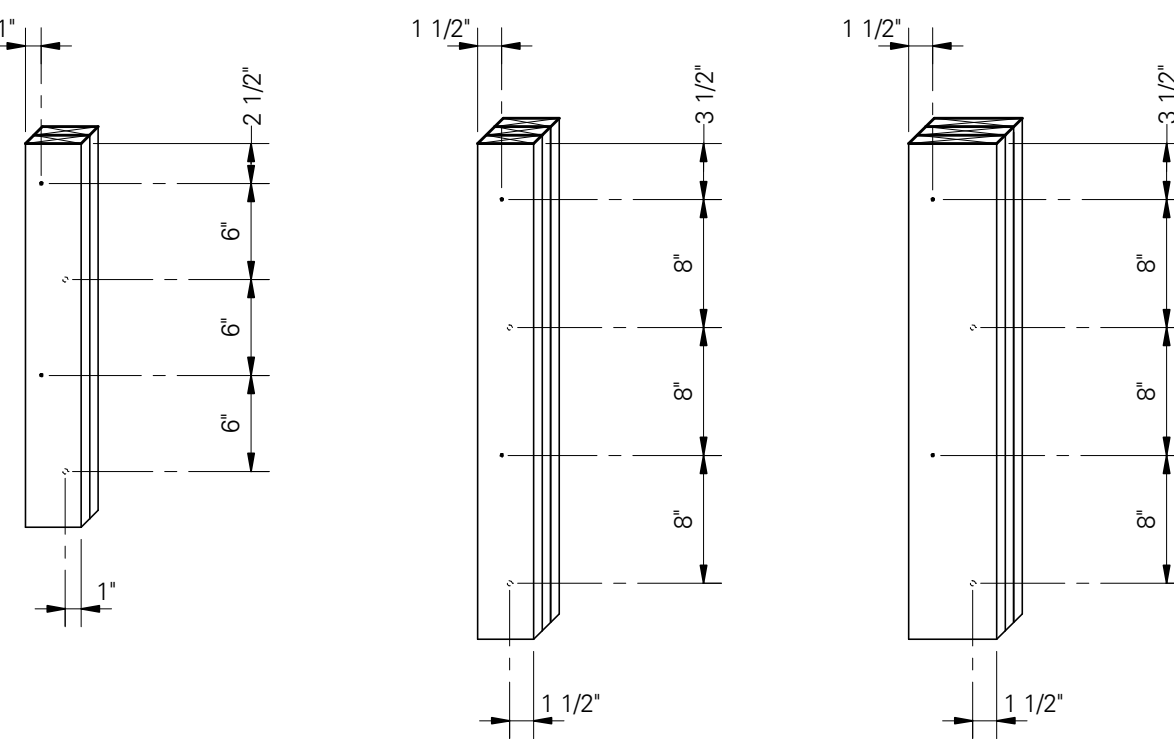
**11 TYPICAL BUILT-UP 2x HEADER OR BEAM**

SCALE: 1" = 1'-0" (06212)

**12 EXTERIOR DORMER WALLS AT SHEAR WALL CONNECTION**

SCALE: 1" = 1'-0" (06068)

**NOTE:**  
CONNECT EACH RAFTER TO TOP PLATES WITH H2.5 (NOT SHOWN FOR CLARITY).



- (2) 2x4 LAMINATIONS W/ (1) ROW OF 0.148"Øx3 1/2" NAILS, STAGGERED
- (3) 2x4 LAMINATIONS W/ (1) ROW OF 0.148"Øx3 1/2" NAILS, EA LAYER, STAGGERED BTWN LAYERS EA SIDE
- (3) 2x6 LAMINATIONS W/ (2) ROWS OF 0.148"Øx3 1/2" NAILS, EA LAYER, STAGGERED BTWN LAYERS EA SIDE

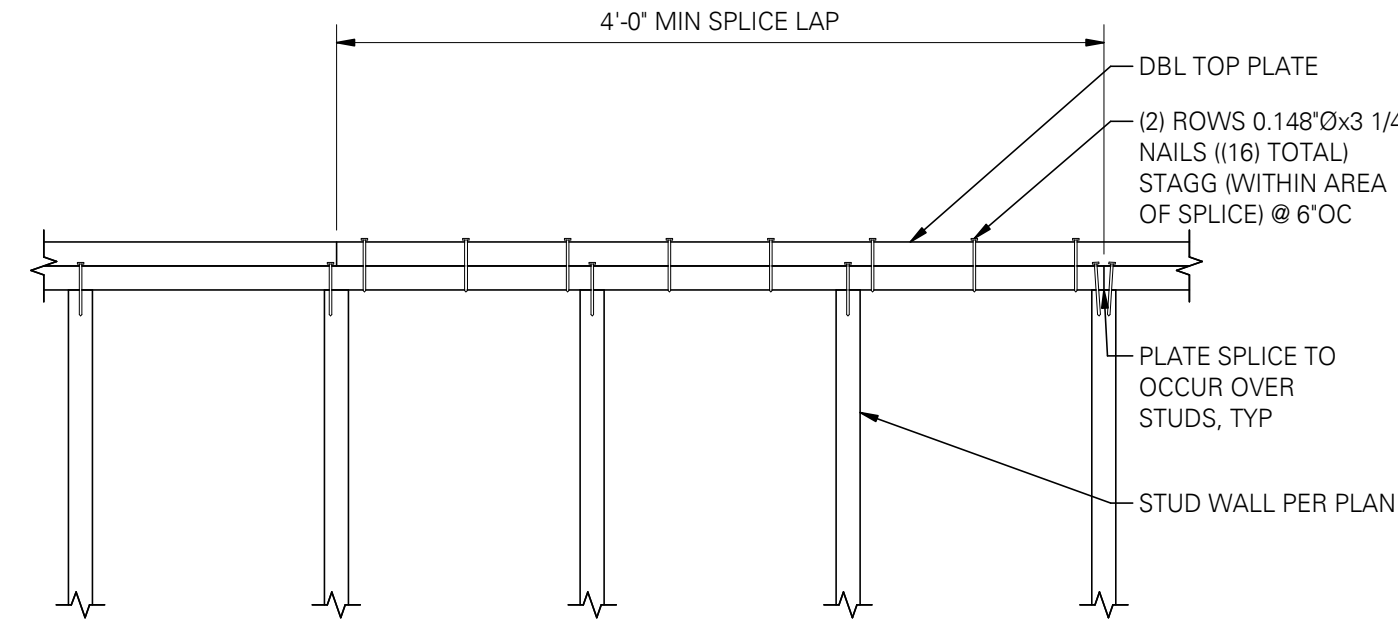
**NOTE:**  
EACH ADDITIONAL LAMINATION OVER (3) LAMINATIONS SHALL BE NAILED TO THE ASSEMBLY W/ 0.148"Øx3 1/4" NAILS, STAGGERED EACH SIDE OF BUNDLED STUDS.

**5 TYPICAL NAILING FOR BUNDLED STUDS**

SCALE: 1" = 1'-0" (06914)

**6 TYPICAL PLATE SPLICE DETAIL**

SCALE: 1" = 1'-0" (06904)



**NOTE:**  
FLOOR/ROOF JOISTS NOT SHOWN FOR CLARITY.

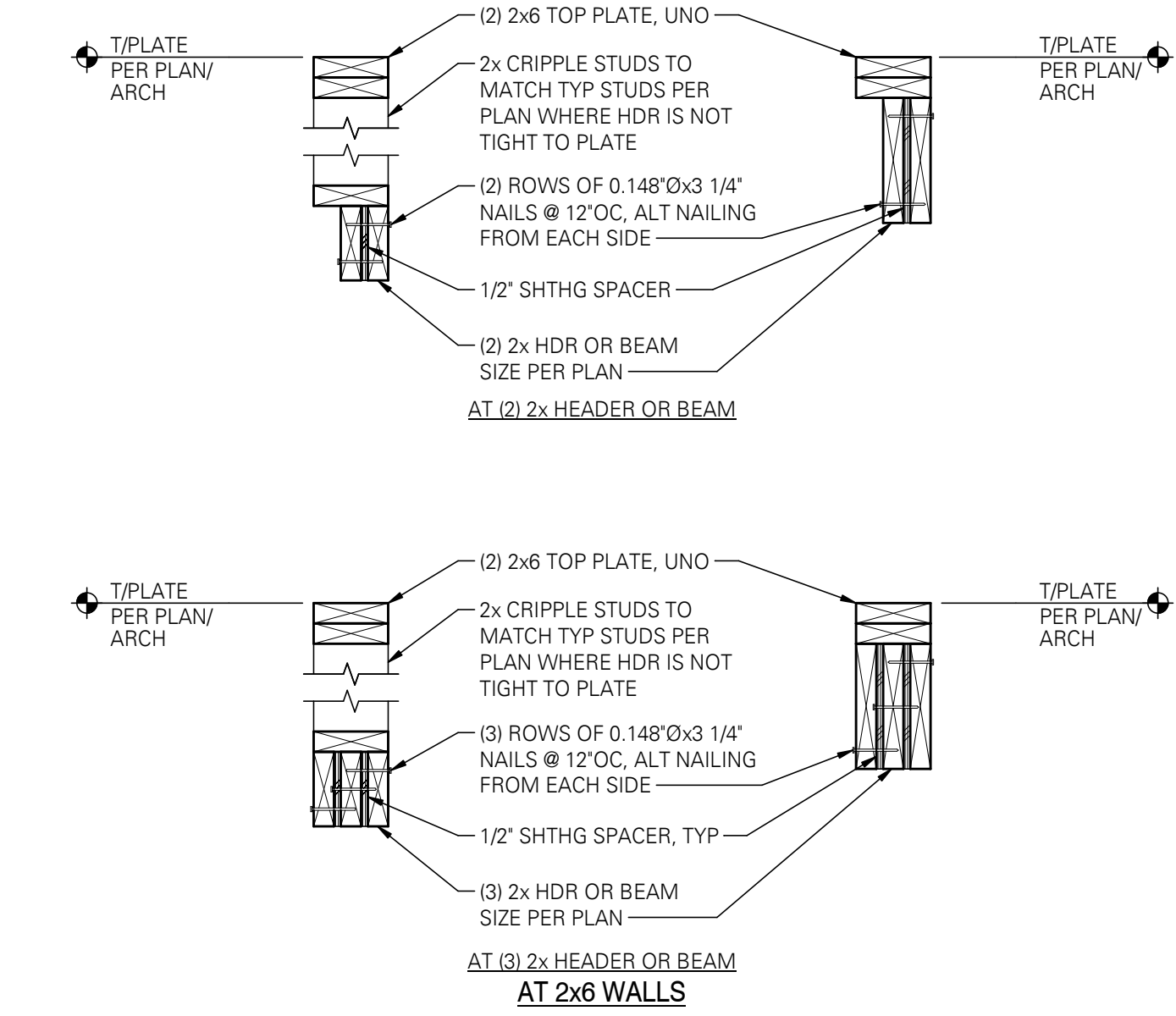
**PLAN - TYPICAL FLOOR AND ROOF SHEATHING ATTACHMENT**

SCALE: 1" = 1'-0" (06230)

- NOTES:**
- MINIMUM EDGE DISTANCE FOR NAILS SHALL BE 3/8".
  - MINIMUM SHEATHING SHEET SIZE SHALL BE 24"x48".
  - NAILS SHALL NOT BE OVERDRIVEN.
  - NAILS SHALL BE COMMON WIRE TYPE OR APPROVED EQUAL.
  - ADDITIONAL INFORMATION PER STRUCTURAL GENERAL NOTES.

**7 ROOF TRUSSES WITH HANGER AT HEADER**

SCALE: 1" = 1'-0" (06065C)

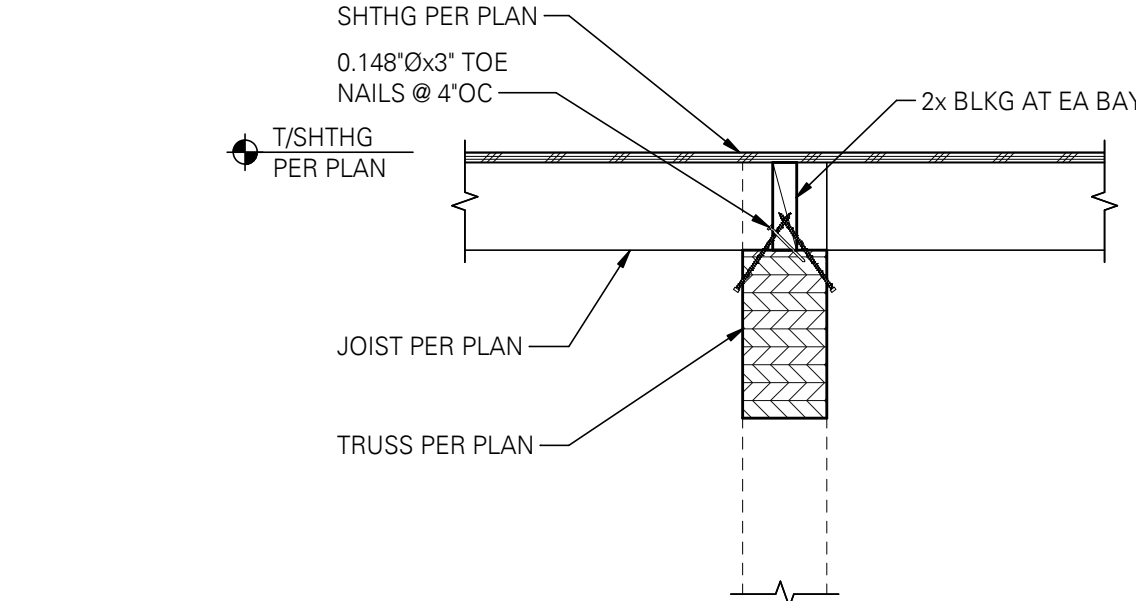


**11 TYPICAL BUILT-UP 2x HEADER OR BEAM**

SCALE: 1" = 1'-0" (06212)

**9 TYPICAL CONNECTION AT HEAVY TIMBER TRUSS**

SCALE: 1" = 1'-0"

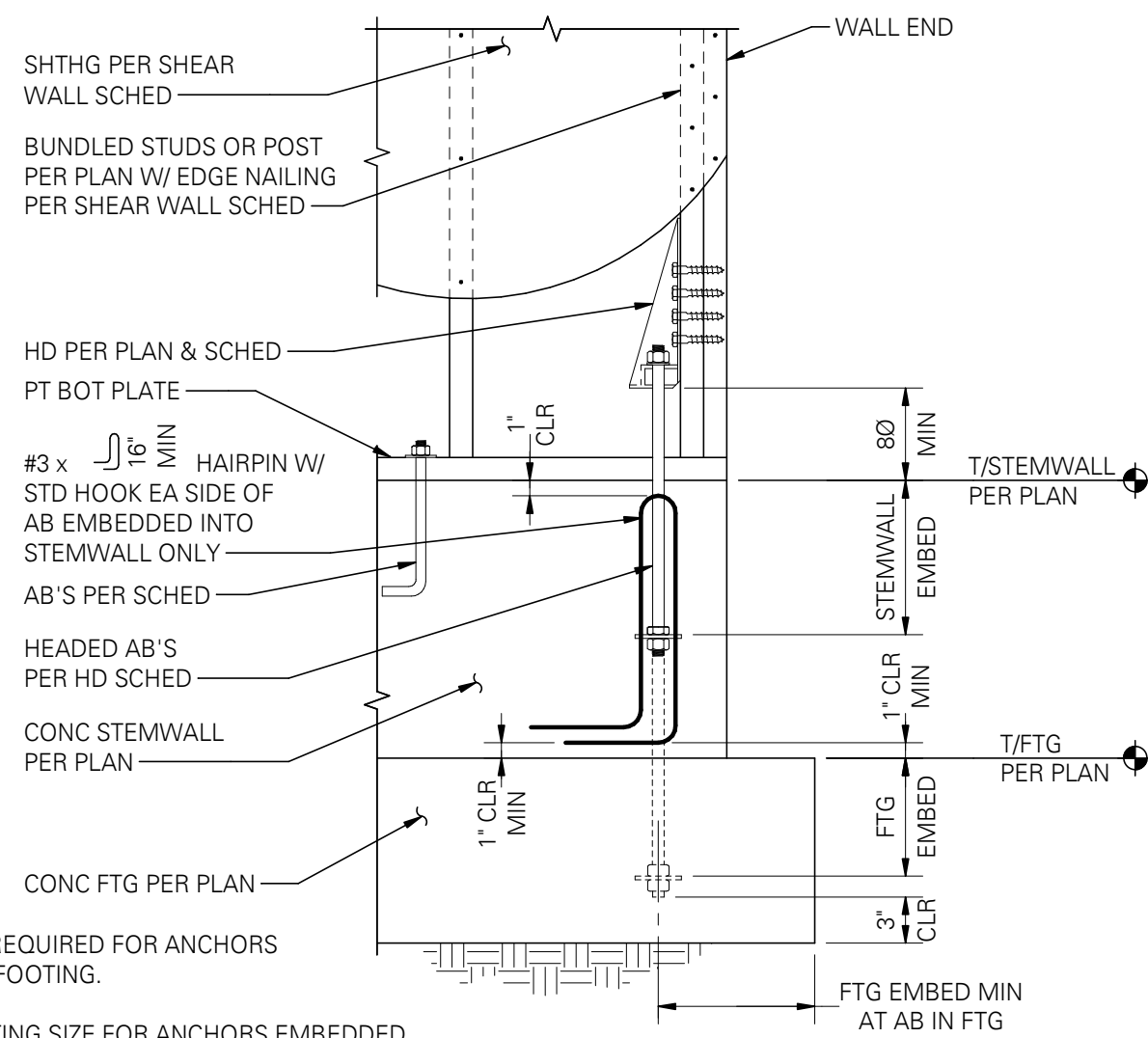


**9 TYPICAL CONNECTION AT HEAVY TIMBER TRUSS**

SCALE: 1" = 1'-0"

FOR PERMIT  
Sealings for construction until Contractor receives written approval for use in construction by the authority having jurisdiction and DDCI Engineers.





**NOTES:**

- HAIRPINS NOT REQUIRED FOR ANCHORS EMBEDDED INTO FOOTING.
- MINIMUM FOOTING SIZE FOR ANCHORS EMBEDDED INTO FOOTING IS 2x EMBED SQUARE WITH DEPTH AS INDICATED.

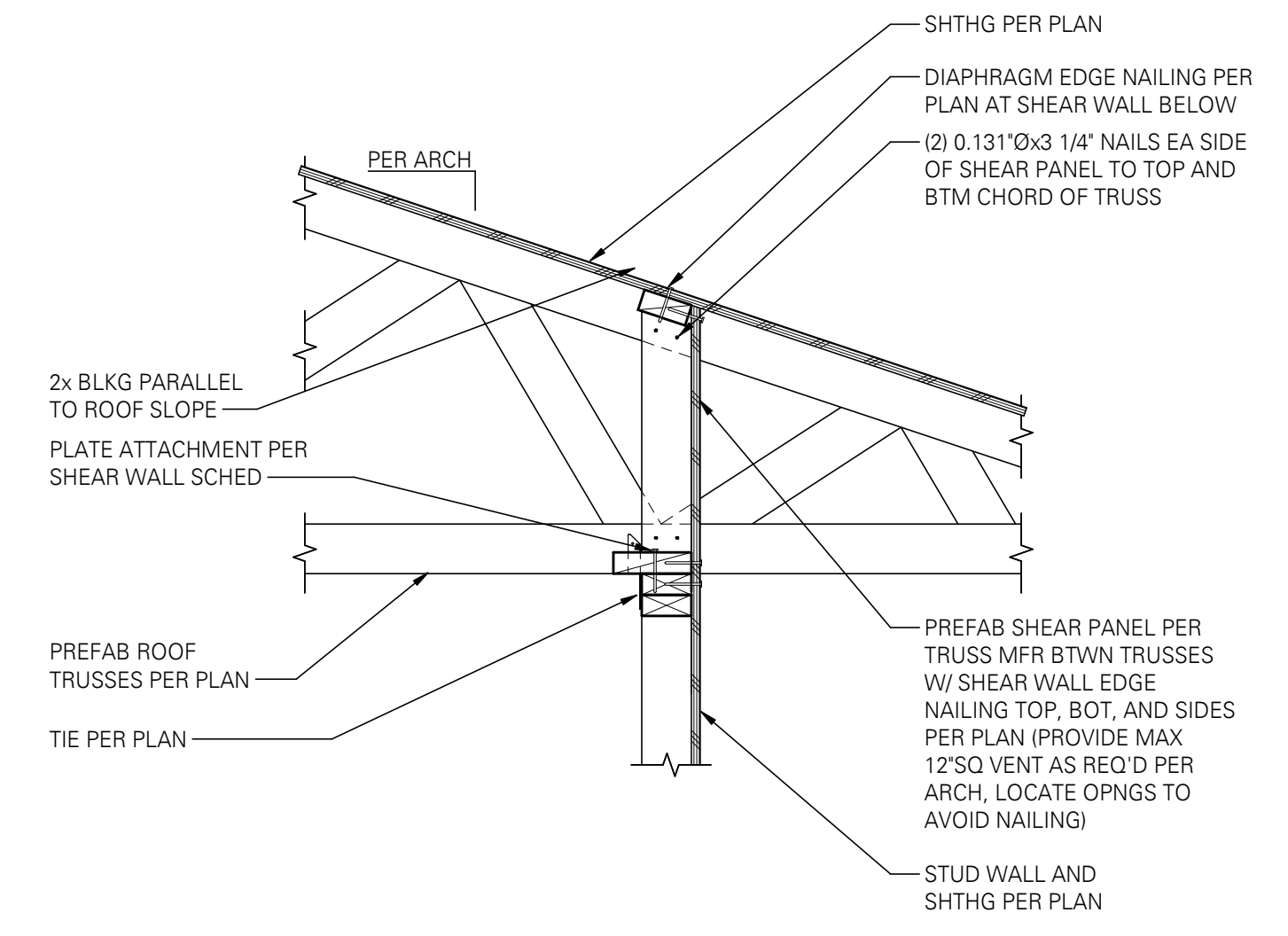
**1 TYPICAL HOLD-DOWN AT FOUNDATION - CONCRETE STEMWALL**

SCALE: 1" = 1'-0" (06091)

01430A SHEAR WALL SCHEDULE W6 FOR 0.148"Øx 2 1/2" NAILS IN DOUG-FIR LARCH (2018 IBC) [16]									
SOME SHEAR WALL TYPES NOTED MAY NOT BE USED ON THIS PROJECT.									
WALL TYPE	WALL SHEATHING APA-RATED [1, 2, 12]	NAIL SIZE & SPACING AT ALL PANEL EDGES [4, 5]	BLOCKING & STUD SIZE AT ADJOINING PANEL EDGES [3, 6, 13]	RIM JOIST OR BLOCKING CONN TO TOP PLATE BELOW [7, 8]	2x PLATE ATTACHMENT		SILL PLATE ATTACHMENT		SHEAR CAPACITY LBS/FT
					NAILING TO WOOD RIM JOIST OR BLOCKING BELOW	ANCHOR BOLT TO CONCRETE BELOW [10]	SILL PLATE AT FOUNDATION [11]		
W6	15/32"	0.148"Øx2 1/2" @ 6"OC	2x	CLIP @ 16"OC	0.148"Øx3 1/4" @ 6"OC	5/8"Ø @ 48"OC	2x		310
W4	15/32"	0.148"Øx2 1/2" @ 4"OC STAGGERED	3x	CLIP @ 12"OC	0.148"Øx3 1/4" @ 4"OC	5/8"Ø @ 32"OC	3x [15]		460
W3	15/32"	0.148"Øx2 1/2" @ 3"OC STAGGERED	3x	CLIP @ 16"OC EACH SIDE	0.148"Øx3 1/4" @ 6"OC (2) ROWS [9]	5/8"Ø @ 24"OC	2x		600
W2	15/32"	0.148"Øx2 1/2" @ 2"OC STAGGERED	3x	CLIP @ 16"OC EACH SIDE	0.148"Øx3 1/4" @ 4"OC (2) ROWS [9]	5/8"Ø @ 16"OC	2x		770

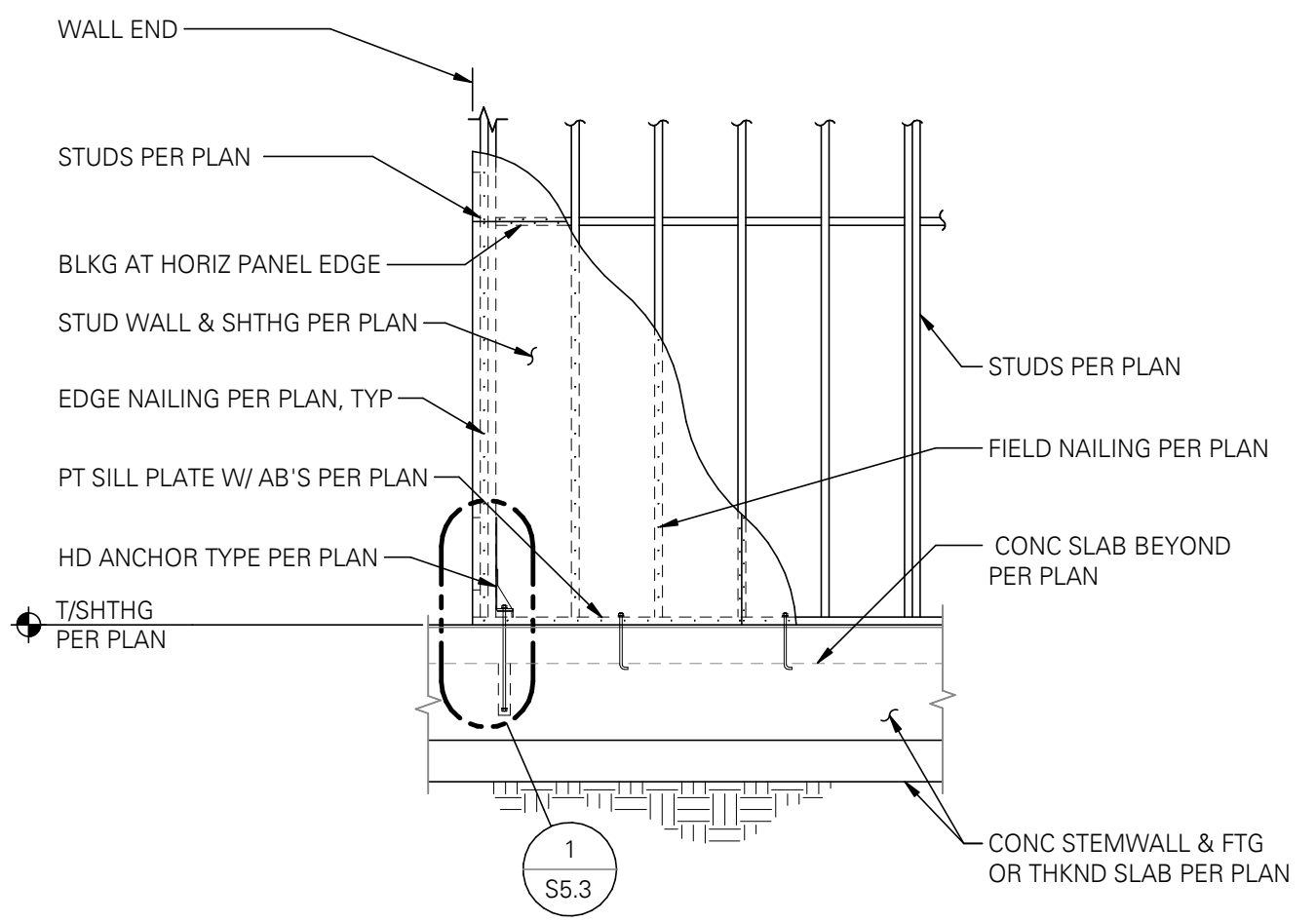
**NOTES:**

- INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY.
- WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS ON 2x FRAMING SHALL BE STAGGERED SO THAT JOINTS ON THE OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUD.
- BLOCKING IS REQUIRED AT ALL PANEL EDGES.
- PROVIDE SHEAR WALL SHEATHING AND NAILING FOR THE ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY WINDOWS OR DOORWAYS OR AS DESIGNATED ON PLANS. HOLD-DOWN REQUIREMENTS PER PLANS. ALTERNATE NOTE: WALLS SHOWN WITH HORIZONTAL STRAPS BELOW AND/OR ABOVE OPENINGS REQUIRE SHEATHING, SHEAR WALL NAILING, ETC ABOVE AND BELOW ALL OPENINGS.
- SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLD-DOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLD-DOWN POSTS. ADDITIONAL INFORMATION PER HOLD-DOWN DETAILS.
- INTERMEDIATE FRAMING TO BE 2x MINIMUM MEMBERS. ATTACH SHEATHING TO INTERMEDIATE FRAMING WITH 0.148"Øx2 1/2" NAILS AT 12"OC WHERE STUDS ARE SPACED AT 16"OC AND 0.148"Øx2 1/2" NAILS AT 6"OC WHERE STUDS ARE SPACED AT 24"OC.
- BASED ON 0.131"Øx1 1/2" NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 0.131"Øx2 1/2" NAILS WHERE INSTALLED OVER SHEATHING.
- FRAMING CLIPS: A35 OR LTP5 OR APPROVED EQUIVALENT.
- WHERE BOTTOM PLATE ATTACHMENT SPECIFIES (2) ROWS OF NAILS OR SCREWS, PROVIDE DOUBLE JOIST, RIM JOIST OR EQUAL BELOW. STAGGER NAILS/SCREWS IN ROWS 1 1/2" APART MINIMUM.
- ANCHOR BOLTS SHALL BE PROVIDED WITH HOT-DIPPED GALVANIZED STEEL PLATE WASHERS 0.229"x3"x3" MINIMUM. THE HOLE IN THE PLATE WASHER MAY BE DIAGONALLY SLOTTED 13/16"x1 3/4" PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT. PLATE WASHER TO EXTEND TO WITHIN 1/2" OF THE EDGE OF THE SILL PLATE ON THE SIDE(S) WITH SHEATHING. AT 2x6 WALLS WITH SHEATHING ON BOTH SIDES USE PLATE WASHER 0.229"x4 1/2"x4 1/2" MINIMUM. EMBED ANCHOR BOLTS 7" MINIMUM INTO THE CONCRETE.
- PRESSURE TREATED MATERIAL CAN CAUSE EXCESSIVE CORROSION IN THE FASTENERS. PROVIDE HOT-DIPPED GALVANIZED (ELECTRO-PLATING IS NOT ACCEPTABLE) NAILS AND CONNECTOR PLATES (FRAMING ANGLES, ETC) FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS. ADDITIONAL INFORMATION PER STRUCTURAL GENERAL NOTES.
- WHERE WOOD SHEATHING (W) IS APPLIED OVER GYPSUM SHEATHING (G), CONTACT THE ENGINEER OF RECORD FOR ALTERNATE NAILING REQUIREMENTS.
- AT ADJOINING PANEL EDGES, (2) 2x STUDS NAILED TOGETHER MAY BE USED IN PLACE OF SINGLE 3x STUD. DOUBLE 2x STUDS SHALL BE CONNECTED TOGETHER BY NAILING THE STUDS TOGETHER WITH 3" LONG NAILS OF THE SAME SPACING AND DIAMETER AS THE PLATE NAILING, PER SECTION.
- CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ADHESIVE OR EXPANSION BOLT ALTERNATIVES TO CAST-IN-PLACE ANCHOR BOLTS. SPECIAL INSPECTION MAY BE REQUIRED.
- NAIL STUDS TO 3x SILL PLATES WITH EITHER (2) 0.148"Øx4" END NAILS OR (4) 0.131"Øx2 1/2" TOENAILS.
- WX WHERE "W" INDICATES WOOD SHEATHING AND "X" INDICATES EDGE NAIL SPACING.
- EDGE NAILS SHALL BE LOCATED 3/8" FROM PANEL EDGES.



**4 SHEAR WALL PERPENDICULAR TO TRUSS**

SCALE: 1" = 1'-0"

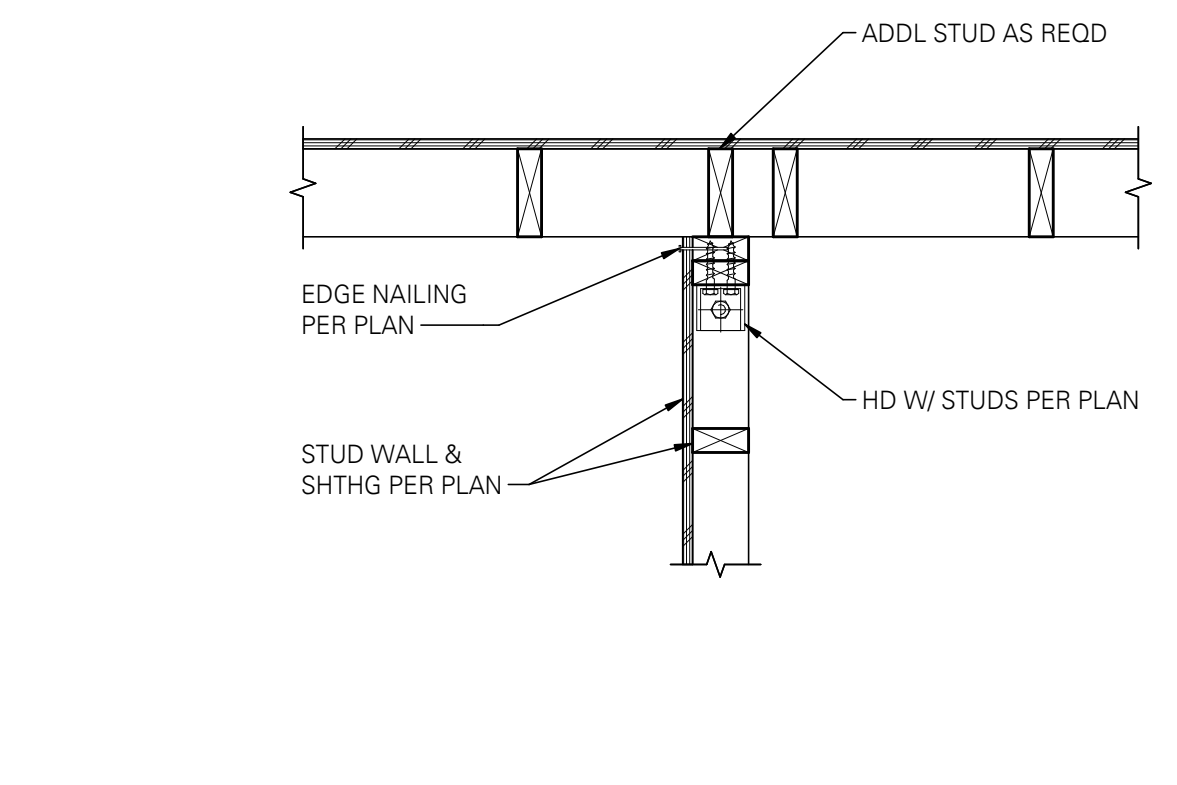


**5 TYPICAL SHEAR WALL ELEVATION**

SCALE: 1" = 1'-0" (06090M)

**6 SHEAR WALL SCHEDULE - DOUG-FIR LARCH**

SCALE: 1" = 1'-0" (01430A)



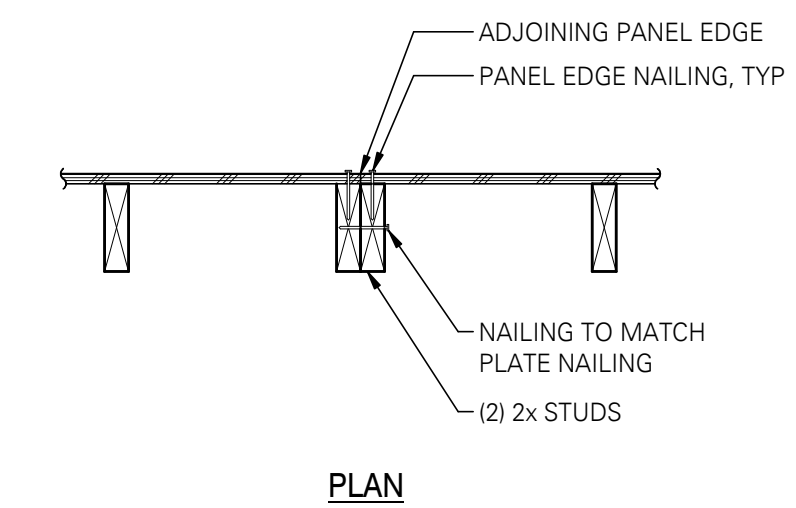
**8 PLAN - INTERSECTING SHEAR WALLS**

SCALE: 1" = 1'-0" (06111)

01420 HOLD-DOWN/STRAP SCHEDULE - DOUG-FIR STUDS									
(1, 2, 7, 11) INDICATES FOOTNOTES									
TYPE	NUMBER OF STUDS/POST [3, 12]	NAILS, SCREWS OR BOLTS	DIAMETER [10]	ANCHOR [4]				NOTES	
				CONCRETE EMBEDMENT/CAPACITY		FOOTING			
				EMBED CIP [6, 14]	CAPACITY	EMBED CIP [6]	CAPACITY		
CONC TO WOOD	HDU4	(2) 2x	(10) SDS1/4x2 1/2	5/8"Ø	10"	4.6k	8"	4.6k	----
	HDU8	(3) 2x	(20) SDS1/4x2 1/2	7/8"Ø	10"	6.9k	10"	7.9k	----
	HDU11	(1) 4x8 [7] OR (1) 6x6	(30) SDS1/4x2 1/2	1"Ø					----

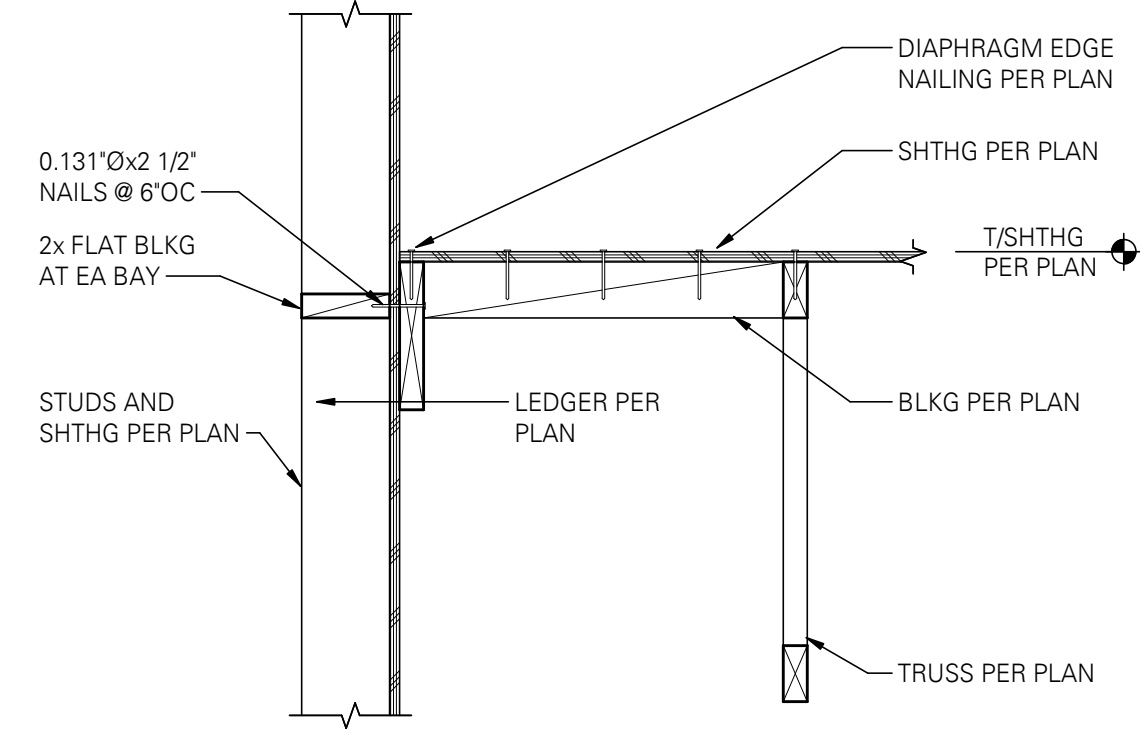
**NOTES:**

- SOME HOLD-DOWN TYPES MAY NOT BE USED ON THIS PROJECT.
- TYPICAL HOLD-DOWN DETAILS PER 1/S5.3. ANCHOR REINFORCEMENT REQUIRED AT STEMWALLS.
- PROVIDE PANEL EDGE NAILING PER SHEAR WALL SCHEDULE AT HOLD-DOWN STUDS/POSTS.
- BASED ON MINIMUM  $f_c = 3000$  PSI CONCRETE.
- STEMWALLS SHALL BE 6" WIDE x 18" TALL MINIMUM.
- CAST-IN-PLACE (CIP) TYPE THREADED RODS AT HOLD-DOWNS SHALL HAVE TWO HEX HEAD NUTS WITH OVERSIZED WASHERS.
- INCLUDES 1.6 LOAD DURATION INCREASE FOR WOOD.
- TOTAL NAILS SPECIFIED, USE HALF THE NAILS AT THE STUDS ABOVE AND BELOW LEVEL BEING CONNECTED.
- AT PRESSURE TREATED SILLS, USE HOT DIPPED GALVANIZED BOLTS.
- POST INSTALLED HOLD-DOWN OPTIONS MAY BE AVAILABLE AT SOME CONDITIONS. CONTACT ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- NAIL LAMINATE MULTIPLE 2x STUDS WITH PLATE NAILING PER SHEAR WALL SCHEDULE.
- MIDWALL/CORNER WALL END
- STUD WALLS SHALL BE 2x6, CENTER HOLD-DOWN IN STUD WALL.



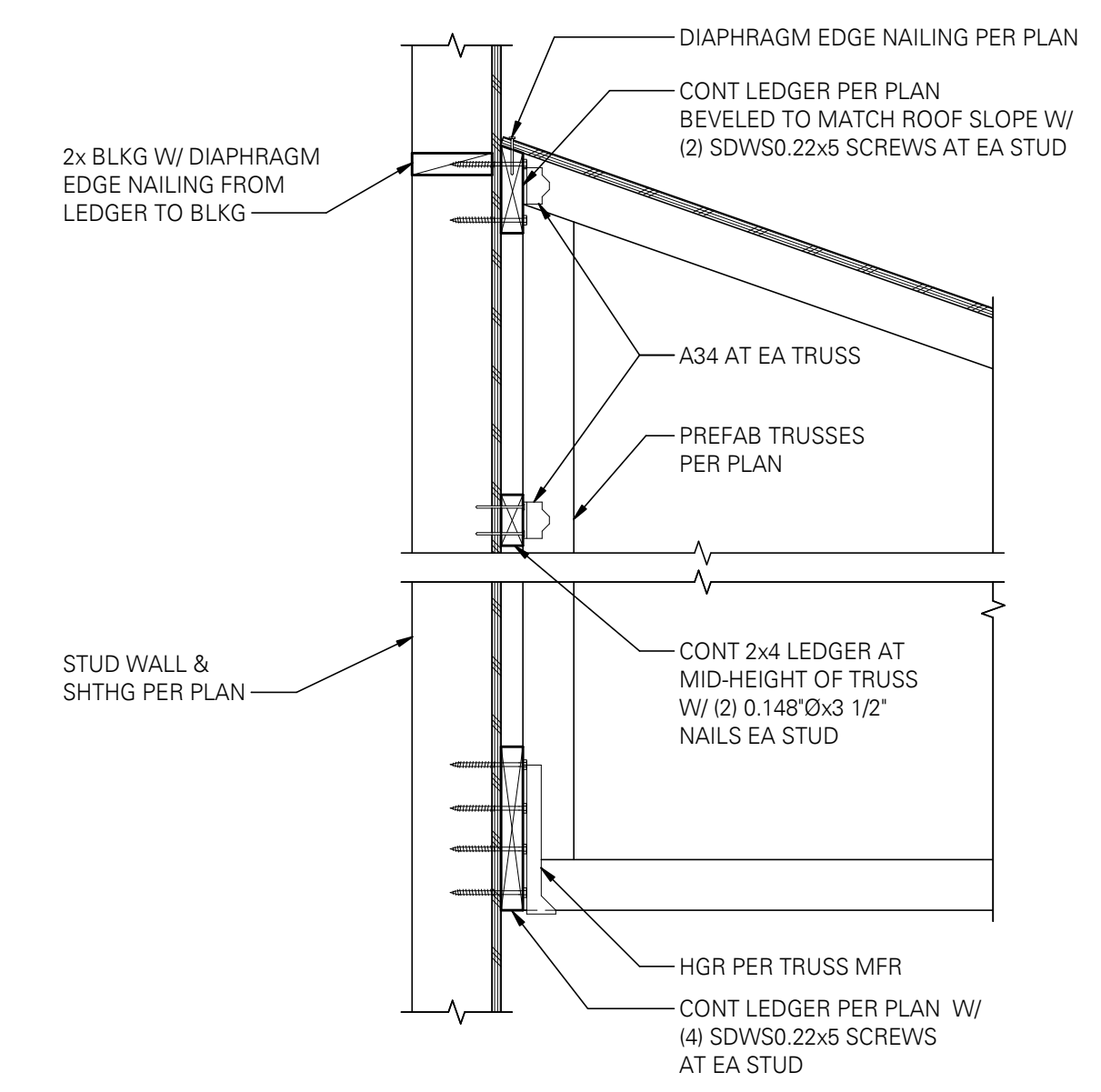
**11 ROOF JOIST AT MID SPAN**

SCALE: 1" = 1'-0"



**12 TRUSS LEDGER AT STUD WALL**

SCALE: 1" = 1'-0" (06222)



PERMIT	
REVISIONS:	DESCRIPTION
#	DATE

DATE: JULY 2024  
SHEET TITLE:  
**STRUCTURAL FRAMING DETAILS**

**S5.3**  
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# PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

## Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
&	AND
A	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE
@	AT
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING
CV	CHECK VALVE
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER SECOND
(X)	DEMOLISH
DW	DISHWASHER, DOMESTIC WATER
DET	DOMESTIC EXPANSION TANK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DVV	DRAINAGE, WASTE AND VENT
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWV	ELECTRIC WATER HEATER
(E)	EXISTING
FT	FEET
FFE	FINISHED FLOOR ELEVATION
F	FIRE, FAHRENHEIT
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FV	FLUSH VALVE
FOOT, FEET	FOOT, FEET
(F)	FUTURE
GPM	GALLONS PER MINUTE
GWV	GAS WATER HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
HB	HOSE BIBB
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
IN, "	INCHES
IW	INDIRECT WASTE
INV	INVERT ELEVATION
L	LAVATORY
MIN	MINIMUM
MX	MIXING VALVE
MS	MOP SINK
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PLBG	PLUMBING
P	PLUMBING, PUMP
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RWL	RAINWATER LEADER
RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
(R)	RELOCATE / RELOCATED LOCATION
RD	ROOF DRAIN
SAN	SANITARY
SB	SERVICE BOX
SHT	SHEET
SA	SHOCK ARRESTOR
SOV	SHUT OFF VALVE
S, SK	SINK
SF	SQUARE FEET
SD	STORM DRAIN
SP	SUMP PUMP, STATIC PRESSURE
TEMP	TEMPERATURE
TP	TRAP PRIMER, TOTAL PRESSURE
TYP	TYPICAL
U, UR	URINAL
V	VACUUM, VENT, VOLT
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
W	WASTE
WC	WATER COLUMN, WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER, WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

## General

	KEYED NOTE
	DEMOLISH
	EXISTING WORK
	NEW WORK
	PIPE OR CONDUIT BELOW GRADE
	CONTINUATION
	EXTENT OF DEMOLITION
	POINT OF CONNECTION
	FIXTURE TAG (LEVEL BELOW FIXTURE)
	HVAC EQUIPMENT IDENTIFICATION (REF. ONLY)
	PLUMBING EQUIPMENT IDENTIFICATION

## Piping Fittings

	ACCESS PANEL
	AQUASTAT
	BLIND FLANGE
	CAP
	CLEANOUT TO GRADE
	CONCENTRIC REDUCER
	DOWNSPOUT NOZZLE
	ECCENTRIC REDUCER
	FLOOR CLEANOUT
	FLOOR DRAIN
	FLOOR SINK
	FLOW DIRECTION
	HOSE BIBB / WALL HYDRANT
	OVERFLOW ROOF DRAIN
	PIPE DROP
	PIPE RISE
	PUMP
	ROOF DRAIN
	SHOCK ABSORBER / WATER HAMMER ARRESTOR
	STRAINER
	T&P RELIEF VALVE WITH PIPE TO DRAIN
	TEE DOWN ON PIPE
	TEE UP ON PIPE
	VENT THROUGH ROOF
	WALL CLEANOUT

## Piping Systems

	COLD WATER PIPING
	CONDENSATE / INDIRECT DRAIN PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	NATURAL GAS PIPING, 2 LB
	NATURAL GAS PIPING, 7" WC PRESSURE
	OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
	SANITARY VENT PIPING
	SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR

	SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
	STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
	STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
	TRAP PRIMER PIPING

## Valves

	BACKFLOW PREVENTER
	CHECK VALVE
	SHUTOFF VALVE, GENERAL

## GENERAL PLUMBING NOTES

- A. ALL WORK UNDER THIS CONTRACT SHALL CONFORM TO:
  1. 2023 OREGON PLUMBING SPECIALTY CODE
  2. OAR - OREGON ADMINISTRATIVE RULES (CHAPTER 333, DIVISION 535)
  3. 2023 - OREGON ELECTRICAL SPECIALTY CODE
  4. 2019 - OREGON FIRE CODE
  5. 2022 - OREGON MECHANICAL SPECIALTY CODE
  6. 2022 OREGON STRUCTURAL SPECIALTY CODE
  7. 2021 - OREGON ENERGY EFFICIENCY SPECIALTY CODE
- B. CONDITIONS SHOW ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE AND SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE GROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.
- C. COORDINATE INSTALLATION OF PIPING, FIXTURES, EQUIPMENT AND THE LIKE BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATION.
- D. COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTION LOCATIONS AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- E. LOCATE VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING.
- F. ALL WASTE PIPING 4" AND LARGER SHALL BE ROUTED AT A 1% SLOPE. ALL WASTE PIPING 3" AND SMALLER SHALL BE ROUTED AT A 2% SLOPE. ALL STORM DRAINAGE PIPING SHALL BE ROUTED AT A 1% SLOPE.
- G. ALL FLOOR DRAINS, FLOOR SINKS, AND OTHER INDIRECT WASTE RECEPTORS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM SHALL BE PROVIDED WITH AN AUTOMATIC TRAP PRIMER.
- H. PERMANENT VACUUM BREAKERS SHALL BE INCLUDED ON ALL WALL HYDRANTS.
- I. SEWER VENTS SHALL TERMINATE AT LEAST 10 FEET HORIZONTALLY FROM AND AT LEAST 3 FEET ABOVE OPERABLE WINDOW, DOOR OPENING, AIR INTAKE OR VENT SHAFT. VENT MUST BE AT LEAST 3 FEET FROM PROPERTY LINE.
- J. PRIOR TO BEING CONCEALED, PIPING PENETRATIONS AT THE FIRE RESISTIVE ASSEMBLIES SHALL BE INSPECTED TO VERIFY COMPLIANCE WITH THE FIRE RESISTANCE RATING.
- K. INDIRECT WASTE SHALL DISCHARGE TO THE BUILDING DRAINAGE THROUGH AN APPROVED AIR GAP OR AIR BREAK WITH A MINIMUM 1" DISTANCE FROM THE LOWEST POINT OF INDIRECT PIPE TO THE FLOOD LEVEL RIM OF THE RECEPTOR.
- L. ISOLATE/SEPARATE VERTICAL PIPING WITH PADDING AND SECURE THE BRACING OVER THE PADDING TO AVOID VIBRATION AND SOUND TRANSMISSION.

## SHEET INDEX

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P0.3	SCHEDULES - PLUMBING
PU2.0	UNDERGROUND FLOOR PLAN - PLUMBING
P2.0	FIRST FLOOR PLAN - PLUMBING
P5.1	DETAILS - PLUMBING

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EXPIRES: 12/31/25

PROJECT NO.: 23-75  
**HOLY TRINITY CATHOLIC CHURCH**  
355 OREGON AVE., SE  
BANDON, OREGON 97411

100% CD

REVISIONS:  
# DATE DESCRIPTION

DATE: JUNE 2024

SHEET TITLE:  
**SYMBOL LIST AND  
GENERAL NOTES -  
PLUMBING**

**P0.1**

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PLUMBING FIXTURE SCHEDULE											
SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN		ACCESSORIES	CONNECTION				ELECTRICAL	COMMENTS
			MFR	MODEL		W	V	CW	HW		
DF-1	DRINKING FOUNTAIN	DRINKING FOUNTAIN - DUAL STATION, SURFACE MOUNTED, FILTERED, BOTTLE FILLING STATION, ADA COMPLIANT, STAINLESS STEEL FINISH, VANDAL RESISTANT, FRONT PUSHBUTTON	ELKAY	LZSTLDDWSV RSK	IN-WALL CARRIER SYSTEM - ELKAY MODEL MLP200	1-1/2"	1-1/2"	1/2"	--	120V	SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT AND RIGHT HAND OR LEFT HAND LOW BOWL CONFIGURATION.
FD-1	FLOOR DRAIN	CAST IRON BODY, FLASHING COLLAR, 8-1/2-INCH ROUND ADJUSTABLE TOP, BAR GRATE, SEDIMENT BUCKET, TRAP PRIMER CONNECTION	JR SMITH	2350Y-P050		SEE DWGS	SEE DWGS	PRIMER CONN.	--		
FS-1	FLOOR SINK	12-1/2" TOP, CAST IRON FLANGED RECEPTOR, SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, LESS GRATE, ALUMINUM DOME BOTTOM STRAINER, 6-INCH DEEP, NO-HUB OUTLET	JR SMITH	3140Y		3"	1-1/2"	PRIMER CONN.	--		
L-1	LAVATORY	WALL MOUNTED, VITREOUS CHINA, 3-HOLE PUNCH, 4-INCH CENTERS, FRONT OVERFLOW	AMERICAN STANDARD	355.012	FAUCET (GOOSENECK WRISTBLADE); CHICAGO 895-317E2805-5ABCP; PROVIDE THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT, INTEGRAL CHECK VALVES, LEAD FREE; WATTS LFMMV.	1-1/2"	1-1/2"	1/2"	1/2"	--	MOUNT LAVATORY AT ADA COMPLIANT HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER, TRAP COVERS, SUPPLY STOPS AND ADDITIONAL ACCESSORIES
L-2	LAVATORY	COUNTERTOP, SELF-RIMMING, ADA COMPLIANT, ROUND, 19-1/8" DIA, VITREOUS CHINA, SINGLE-HOLE PUNCH, FRONT OVERFLOW	AMERICAN STANDARD	0490.156	DECK MOUNTED, METERING FAUCET, SINGLE HOLE, SINGLE-SUPPLY, 0.20 MAX. GALLON/CYCLE, VANDAL RESISTANT; CHICAGO FAUCETS MODEL 3500-E2805-5ABCP; ASSE 1070 COMPLIANT MIXING VALVE, INTEGRAL CHECK VALVES, WATTS MODEL LFMMV (SET DISCHARGE TEMPERATURE AT 110 DEG. F.)	1-1/2"	1-1/2"	1/2"	1/2"	--	SEE SPECIFICATION SECTION 224000 FOR TRAP COVERS, SUPPLY STOPS AND ADDITIONAL ACCESSORIES
LS-1	LAUNDRY SINK	FLOOR MOUNTED, FAUCET MOUNTING DECK (4-INCH CENTERS), ONE PIECE MOLDED STRUCTURAL THERMOPLASTIC RESIN, STEEL LEGS, 20-INCHES X 24-INCHES X 13 INCHES DEEP TUB	MUSTEE	19F	DECK MOUNTED, MANUAL FAUCET, 4-INCH CENTERS, 8" RIGID/SWING SPOUT, ATMOSPHERIC VACUUM BREAKER, WRISTBLADE HANDLES, 2.2 GPM; CHICAGO FAUCETS MODEL 895-317-GNBBVESMAB; 3/8" OFFSET INLET SUPPLY ARM WITH INTEGRAL CHECK; CHICAGO FAUCETS MODEL GCJKABCP	2"	1-1/2"	1/2"	1/2"	--	SEE SPECIFICATION SECTION 224000 FOR SUPPLY STOPS AND ADDITIONAL ACCESSORIES.
MS-1	MOP SINK	FLOOR MOUNTED, TERRAZZO, 24-INCHES X 24-INCHES X 10-INCHES, WITH OPTIONAL (A-20) ALUMINUM BUMPER GUARDS AND (BP) SPLASH PANELS	STERN WILLIAMS	MTB-2424	WALL HUNG, MOP SINK FAUCET, 8-INCH CENTERS, LEVER HANDLES, PAIL HOOK, CHROME PLATED, ATMOSPHERIC VACUUM BREAKER, 3/4" THREADED HOSE OUTLET AND WALL FLANGE; CHICAGO FAUCETS MODEL 540-LD897SWXFABCP; 3/8" OFFSET INLET SUPPLY ARM WITH INTEGRAL CHECK; CHICAGO FAUCETS MODEL GCJKABCP	3"	2"	1/2"	1/2"	--	
S-1	SINK	DROP-IN, SINGLE BOWL, 18 GAUGE STAINLESS STEEL, 15-INCHES X 17-1/2-INCHES X 7-5/8-INCHES DEEP, 18-INCH MINIMUM CABINET SIZE, 3-HOLE PUNCH	ELKAY	LR1517	DECK MOUNTED FAUCET, 5-1/4-INCH RIGID/SWING GOOSENECK, 4" WRISTBLADE HANDLES, 8-INCH FIXED CENTERS, 2.2 GPM AERATED FLOW RATE; CHICAGO FAUCETS MODEL 201-AGN2AE3-317AB	2"	1-1/2"	1/2"	1/2"	--	SEE SPECIFICATION SECTION 224000 FOR SUPPLY STOPS AND ADDITIONAL ACCESSORIES.
S-2	SACRARIUM SINK	DROP-IN, SINGLE BOWL, 18 GAUGE STAINLESS STEEL, 13-INCHES X 15-1/4-INCHES X 6-INCHES DEEP	RELIGIOUS SUPPLY CENTER	31SCM62-A		2"	1-1/2"	--	--	--	SEE SPECIFICATION SECTION 224000 FOR SUPPLY STOPS AND ADDITIONAL ACCESSORIES.
UR-1	URINAL	VITREOUS CHINA HYBRID URINAL	SLOAN	HYB-1000	2" NPT OUTLET FLANGE & UNI-COUPLER KIT; TOUGH-FREE, HYGIENIC OPERATION.	2"	1-1/2"	1/2"	--	120V to 24V	MOUNT URINAL AT ADA COMPLIANT HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER AND ADDITIONAL ACCESSORIES. COORDINATE ELECTRICAL POWER AND LOW VOLTAGE REQUIREMENTS WITH DIVISION 26.
WC-1	WATER CLOSET	FLOOR MOUNTED, FLOOR OUTLET, GRAVITY TANK TYPE, VITREOUS CHINA, STANDARD HEIGHT, ELONGATED, 1.28 GPF, 12" ROUGH-IN	SLOAN	WETS-4009.40 10	SEAT - ELONGATED, PLASTIC, SELF-SUSTAINING CHECK HINGES WITH NON-CORRODING STAINLESS STEEL POSTS; BEMIS MODEL 1955SSCT	3"	2"	1/2"	--	--	SEE ARCHITECTURAL PLANS FOR LOCATION. SEE SPECIFICATION SECTION 224000 FOR ADDITIONAL ACCESSORIES.
WC-2	WATER CLOSET	FLOOR MOUNTED, FLOOR OUTLET, GRAVITY TANK TYPE, VITREOUS CHINA, ADA HEIGHT, ELONGATED, 1.28 GPF, 12" ROUGH-IN	SLOAN	WETS-4029.40 10	SEAT - ELONGATED, PLASTIC, SELF-SUSTAINING CHECK HINGES WITH NON-CORRODING STAINLESS STEEL POSTS; BEMIS MODEL 1955SSCT	3"	2"	1/2"	--	--	SEE ARCHITECTURAL PLANS FOR LOCATION. SEE SPECIFICATION SECTION 224000 FOR ADDITIONAL ACCESSORIES.
WH-1	WALL HYDRANT	ENCASED (RECTANGULAR BOX), NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, CHROME PLATED BOX/DOOR ASSEMBLY, DOUBLE CHECK BACKFLOW PREVENTER, LOOSE TEE KEY OPERATION	WOODFORD	B67		--	--	1/2"	--		

ELECTRIC WATER HEATER SCHEDULE - TANK TYPE												
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	BASIS OF DESIGN		TANK CAPACITY (GALLONS)	RECOVERY RATE @ 100F RISE (GPH)	ELECTRICAL				MAX WT (LBS)	COMMENTS
			MFR	MODEL			VOLTS	PH	KW	ELEMENTS		
EW-1	ELECTRIC WATER HEATER	MECH/ JAN, RM 5 / HOT WATER SYSTEM	BRADFORD WHITE	LE240LN3-3	37	98	208	1	5	2 (2,500 KW EACH)		
EW-2	ELECTRIC TANKLESS WATER HEATER	WEST SACRISTY/ RM 13 / REMOTE SINK	EEMAX	EMT2.5	2.5	21	120	1	1.44	1		

NOTES:

PLUMBING DEVICES SCHEDULE											
MARK	DESCRIPTION	SYSTEM	CAPACITIES	BASIS OF DESIGN		CONNECTION (")				WEIGHT (LBS)	COMMENTS
				MANUFACTURER	MODEL	W	CW	HW	TW		
DET-1	DOMESTIC WATER EXPANSION TANK - IAPMO	DOMESTIC HOT WATER	3.5 GALLON CAPACITY, WELDED STEEL CONSTRUCTION, DIAPHRAGM TYPE, SEPARATE WATER RESERVOIR, PRE-PRESSURIZED IAPMO CERTIFIED.	WATTS	DETA-5	--	--	3/4"	--	28	ACCEPTANCE VOLUME = 3.3 GALLONS
RPBP-1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	DOMESTIC HOT WATER	BRONZE BODY, SILICONE RUBBER DISC	WATTS	009	--	1-1/2"	--	--	--	ROUTE AIR GAP DRAIN PIPING TO NEAREST FLOOR SINK. LEAD FREE.

PUMP SCHEDULE												
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	BASIS OF DESIGN		FLOW RATE (GPM)	HEAD (FT H2O)	RPM	ELECTRICAL				COMMENTS
			MFR	MODEL				VOLTS	PH	AMPS	WATTS	
CP-1	DOMESTIC HOT WATER CIRCULATING PUMP	MECH/ JAN, RM 5 / HOT WATER SYSTEM	BELL & GOSSETT	XL N 20-35	3 GPM	15	--	115	1	--	1/12	STAINLESS STEEL BODY, IN-LINE PUMP. PROVIDE AQUASTAT.

NOTES:



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PROJECT NO.: 23.75  
 HOLY TRINITY CATHOLIC CHURCH  
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100% CD

REVISIONS:  
# DATE DESCRIPTION

DATE: JUNE 2024

SHEET TITLE:  
SCHEDULES - PLUMBING

P0.2

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### SANITARY DRAINAGE CALCULATIONS

FIXTURE QUANTITY			DESCRIPTION	TABLE 7-3			TOTAL FIXTURE UNITS
PRIVATE INDIVIDUAL DWELLING	PUBLIC GENERAL USE	PUBLIC HEAVY USE ASSEMBLY		PRIVATE INDIVIDUAL DWELLING	PUBLIC GENERAL USE	PUBLIC HEAVY-USE ASSEMBLY	
0	0	0	BAR SINK	1.00	0.00	0.00	0.00
0	0	0	BAR SINK--2" MIN. DRAIN BEYOND TRAP ARM	0.00	2.00	0.00	0.00
0	0	0	BATHTUB OR COMB. BATH/SHOWER	2.00	2.00	0.00	0.00
0	0	0	BIDET	1.00	0.00	0.00	0.00
0	0	0	CLINIC SINK	0.00	6.00	6.00	0.00
0	0	0	CLOTHESWASHER, DOMESTIC	3.00	3.00	3.00	0.00
0	0	0	DENTAL UNIT OR CUSPIDOR	0.00	1.00	1.00	0.00
0	0	0	DISHWASHER, COMMERCIAL, INDEPENDENT DRAIN	9.00	9.00	9.00	0.00
0	1	0	DRINKING FOUNTAIN OR WATER COOLER	0.50	0.50	1.00	0.50
0	1	0	FLOOR SINKS		2.00		2.00
0	0	0	WATER SOFTENERS/SAND FILTER	0.00	140.00	3.00	0.00
0	1	0	FLOOR DRAIN, EMERGENCY	0.00	0.00	0.00	0.00
0	0	0	BREAK ROOM SINK, DOMESTIC W/ONE 1 1/2" TRAP	2.00	2.00	0.00	0.00
0	0	0	KITCHEN SINK, DOMESTIC	2.00	2.00	0.00	0.00
0	0	0	KITCHEN SINK, DOMESTIC, W/DISHWASHER	2.00	2.00	0.00	0.00
0	0	0	KITCHEN SINK, DOM. W/GRINDER & DISHWASHER	2.00	2.00	0.00	0.00
0	1	0	LAUNDRY SINK, ONE OR TWO COMPARTMENTS	2.00	2.00	2.00	2.00
0	0	0	LAUNDRY SINK, W/DISCH. FROM CLOTHES WASH	2.00	2.00	2.00	0.00
0	3	0	LAVATORY, SINGLE	1.00	1.00	1.00	3.00
0	0	0	LAVATORY, SETS OF 2 OR 3	2.00	2.00	2.00	0.00
0	0	0	MOBILE HOME, TRAP	12.00	0.00	0.00	0.00
0	0	0	RECEPTOR, IND. WASTE, 1 1/2" TRAP SEE	0.00	1.00	1.00	0.00
0	0	0	RECEPTOR, IND. WASTE, 2" TRAP TABLE	0.00	2.00	2.00	0.00
0	0	0	RECEPTOR, INC. WASTE, 3" TRAP 7-4	0.00	4.00	4.00	0.00
0	0	0	SERVICE SINK OR MOP BASIN, 2" TRAP	0.00	3.00	0.00	0.00
0	1	0	SERVICE SINK OR MOP BASIN, 3" TRAP	0.00	3.00	0.00	3.00
0	0	0	SHOWER, STALL, 2" TRAP	2.00	2.00	2.00	0.00
0	0	0	SHOWER, GROUP, PER HEAD, CONTINUOUS	0.00	5.00	0.00	0.00
0	0	0	SINK, COMMERCIAL, 1 1/2" TRAP, W/GRINDER	0.00	3.00	3.00	0.00
0	0	0	SINK, SERVICE, FLUSHING RIM	0.00	6.00	0.00	0.00
0	1	0	SINK, GENERAL, 1 1/2" TRAP	2.00	3.00	3.00	3.00
0	0	0	SINK, GENERAL, 2" TRAP	3.00	4.00	4.00	0.00
0	0	0	SINK, TRIPLE COMPARTMENT	0.00	6.00	6.00	0.00
0	0	0	URINAL, 1.0 GPF	2.00	2.00	5.00	0.00
0	0	0	URINAL, GREATER THAN 1.0 GPF	2.00	2.00	6.00	0.00
0	0	0	URINAL, 1 1/2" TRAP	2.00	2.00	5.00	0.00
0	0	0	WASHFOUNTAIN, 1 1/2" TRAP	0.00	2.00	2.00	0.00
0	0	0	WASHFOUNTAIN, 2" TRAP	0.00	3.00	3.00	0.00
0	0	0	WASHUP SINK, EACH SET OF FAUCETS	0.00	2.00	2.00	0.00
0	3	0	WATER CLOSET, 1.6 GPF, GRAVITY TANK	3.00	4.00	6.00	12.00
0	0	0	WATER CLOSET, 1.6 GPF, FLUSHOMETER TANK	3.00	4.00	6.00	0.00
0	0	0	WATER CLOSET, 1.6 GPF, FLUSHOMETER VALVE	3.00	4.00	6.00	0.00
0	0	0	WATER CLOSET, 3.5 GPF, GRAVITY TANK	4.00	6.00	8.00	0.00
0	0	0	WATER CLOSET, 3.5 GPF, FLUSHOMETER VALVE	4.00	6.00	8.00	0.00
0	0	0	WHIRLPOOL BATH OR COMB. BATH/SHOWER	2.00	2.00	0.00	0.00
TOTAL							25.50
PIPE SIZE							4"

### (BASED ON APPENDIX 'A')

FIXTURE QUANTITY			DESCRIPTION	APPENDIX 'A' - TABLE A-2			TOTAL FIXTURE UNITS	
PRIVATE INDIVIDUAL DWELLING	PUBLIC GENERAL USE	PUBLIC HEAVY USE ASSEMBLY		PRIVATE INDIVIDUAL DWELLING	PUBLIC GENERAL USE	PUBLIC HEAVY-USE ASSEMBLY	COLD WATER	(75) HOT WATER
0	0	0	BAR SINK	1.00	2.00	0.00	0.00	0.00
0	0	0	BATHTUB OR COMB. BATH/SHOWER	4.00	4.00	0.00	0.00	0.00
0	0	0	BATHTUB OR COMB. BATH/SHOWER - 3/4" FILL	10.00	10.00	0.00	0.00	0.00
0	0	0	BIDET	1.00	0.00	0.00	0.00	0.00
0	0	0	CLINIC SINK	0.00	8.00	0.00	0.00	0.00
0	0	0	CLOTHESWASHER, DOMESTIC	4.00	4.00	0.00	0.00	0.00
0	0	0	DENTAL UNIT OR CUSPIDOR	0.00	1.00	0.00	0.00	0.00
0	0	0	DISHWASHER, DOMESTIC	1.50	1.50	0.00	0.00	0.00
0	1	0	DRINKING FOUNTAIN OR WATER COOLER	0.00	0.50	0.75	0.50	---
0	1	0	HOSE BIBB	2.50	2.50	0.00	2.50	---
0	2	0	HOSE BIBB, EACH ADDITIONAL	1.00	1.00	0.00	2.00	---
0	2	0	KITCHEN SINK, DOMESTIC	1.50	1.50	0.00	3.00	2.25
0	1	0	LAUNDRY SINK	1.50	1.50	0.00	1.50	1.13
0	3	0	LAVATORY	1.00	1.00	1.00	3.00	2.25
0	0	0	LAWN SPRINKLER, EACH HEAD	1.00	1.00	0.00	0.00	---
0	0	0	MOBILE HOME, EACH	12.00	0.00	0.00	0.00	0.00
0	1	0	SERVICE SINK OR MOP BASIN	1.50	3.00	0.00	3.00	2.25
0	0	0	SHOWER, EACH HEAD	2.00	2.00	0.00	0.00	0.00
0	0	0	SHOWER, CONTINUOUS USE	0.00	5.00	0.00	0.00	0.00
0	1	0	URINAL, 1.0 GPF	3.00	4.00	5.00	4.00	---
0	0	0	URINAL, GREATER THAN 1.0 GPF	4.00	5.00	6.00	0.00	---
0	0	0	URINAL, FLUSH TANK	2.00	2.00	3.00	0.00	---
0	0	0	WASHFOUNTAIN, CIRCULAR SPRAY	0.00	4.00	0.00	0.00	0.00
0	0	0	WASHUP SINK, EACH SET OF FAUCETS	0.00	2.00	0.00	0.00	0.00
0	0	0	WATER CLOSET, 1.6 GPF, GRAVITY TANK	2.50	2.50	3.50	0.00	---
0	0	0	WATER CLOSET, 1.6 GPF, FLUSHOMETER TANK	2.50	2.50	3.50	0.00	---
0	0	0	WATER CLOSET, 1.6 GPF, FLUSHOMETER VALVE	5.00	5.00	8.00	0.00	---
0	3	0	WATER CLOSET, 3.5 GPF, GRAVITY TANK	3.00	5.50	7.00	16.50	---
0	0	0	WATER CLOSET, 3.5 GPF, FLUSHOMETER VALVE	7.00	8.00	10.00	0.00	---
0	0	0	WHIRLPOOL BATH OR COMB. BATH/SHOWER	4.00	0.00	0.00	0.00	0.00
TOTAL							36.00	7.88
FLOW IN GPM							26	7
IRRIGATION FLOW IN GPM							0	
TOTAL GPM REQUIRED							26	
SERVICE SIZE FROM METER TO BUILDING							1-1/2"	



HOLY TRINITY CATHOLIC CHURCH

PROJECT NO.: 23-75  
355 OREGON AVE., SE  
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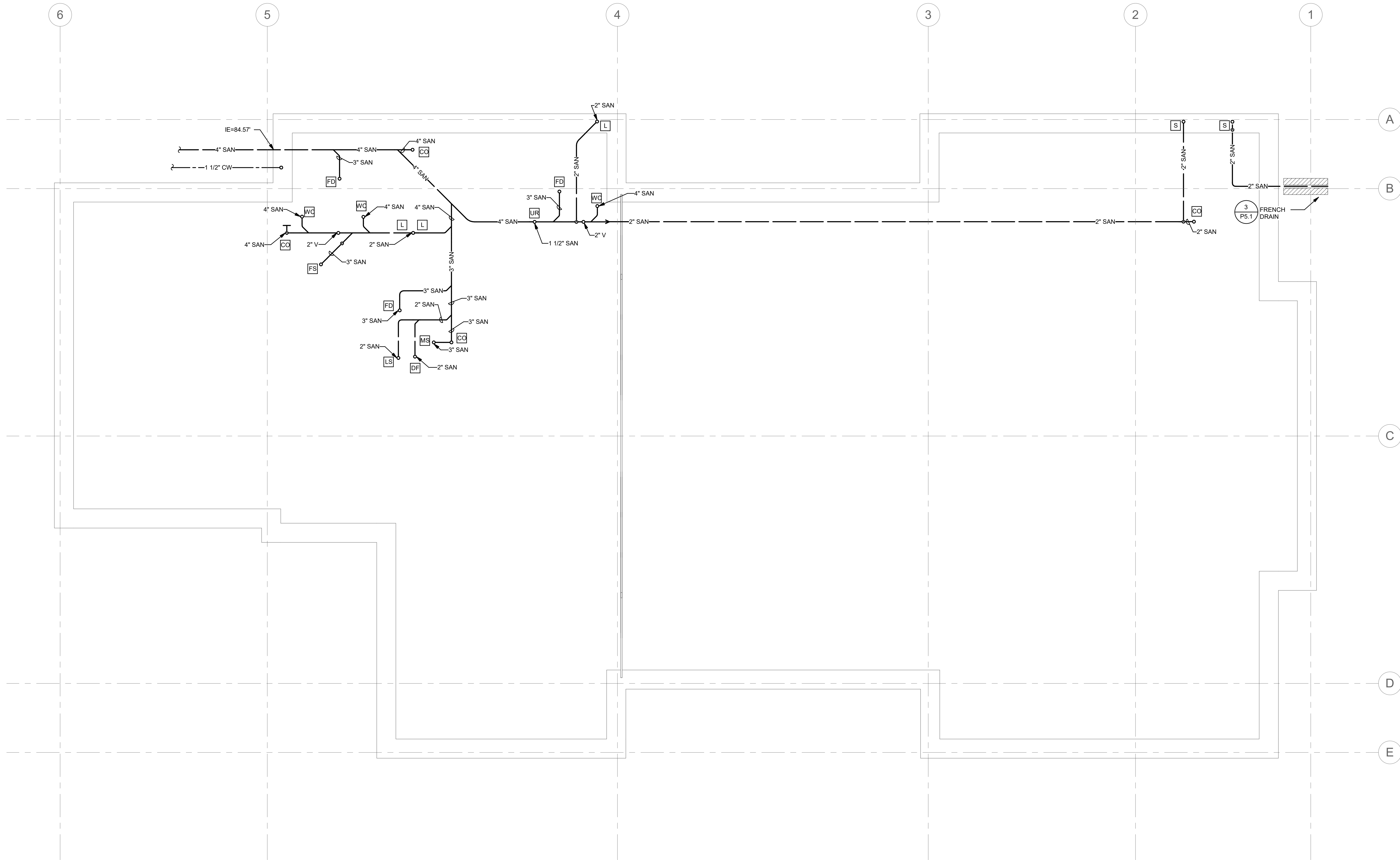
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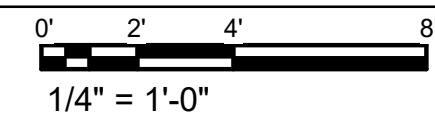
DATE: JUNE 2024

SHEET TITLE:  
UNDERGROUND  
FLOOR PLAN -  
PLUMBING

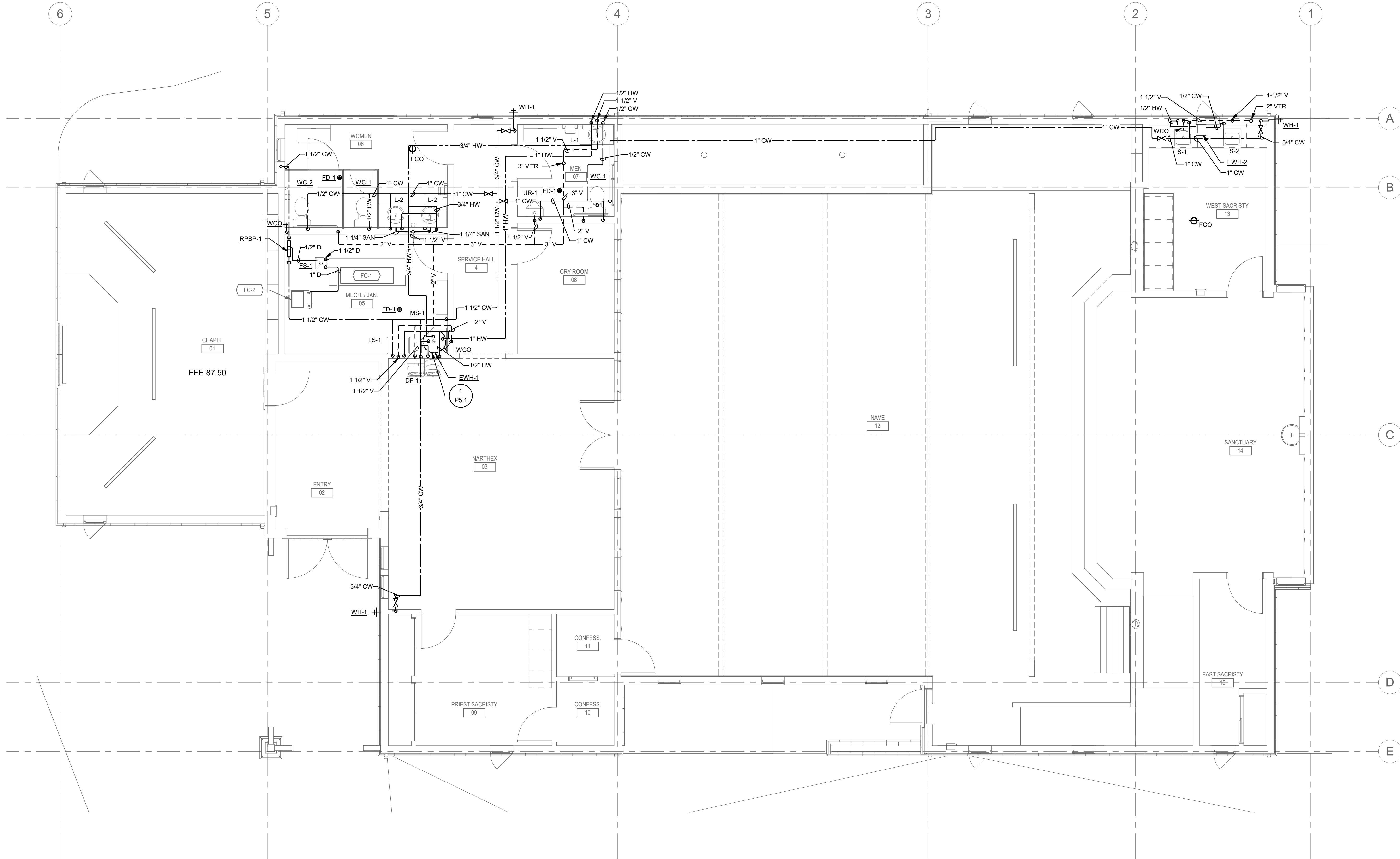
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1 UNDERGROUND FLOOR PLAN - PLUMBING







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**HOLY TRINITY CATHOLIC CHURCH**  
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REVISIONS:	#	DATE	DESCRIPTION

DATE: JUNE 2024

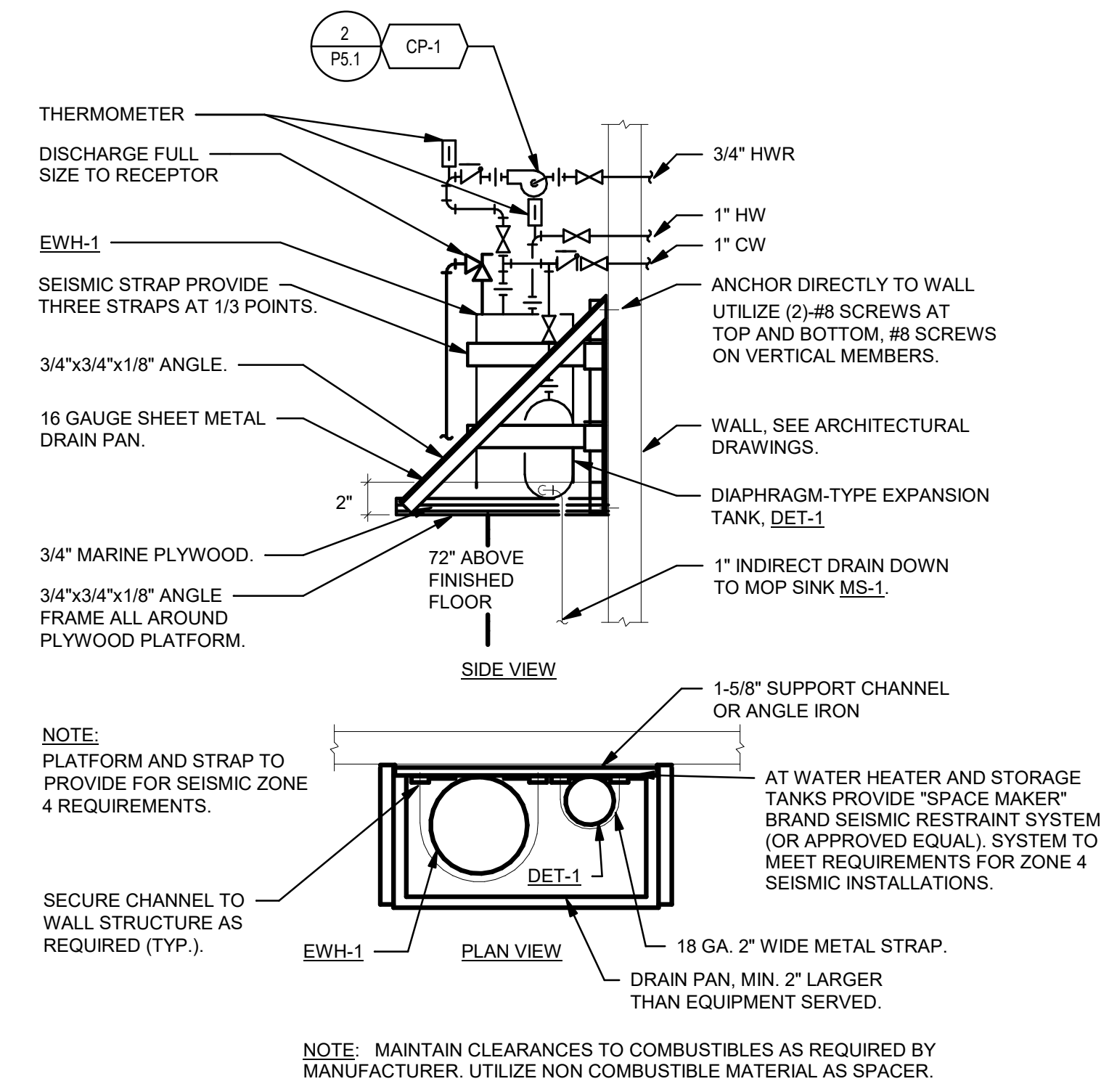
SHEET TITLE:  
**FIRST FLOOR PLAN - PLUMBING**

**P2.0**

6/28/2024 11:16:40 AM C:\Users\jeferson\Documents\Holy Trinity Chrch\_MEP\_Central\_v2024\_jeferson\@interface.com.rvt

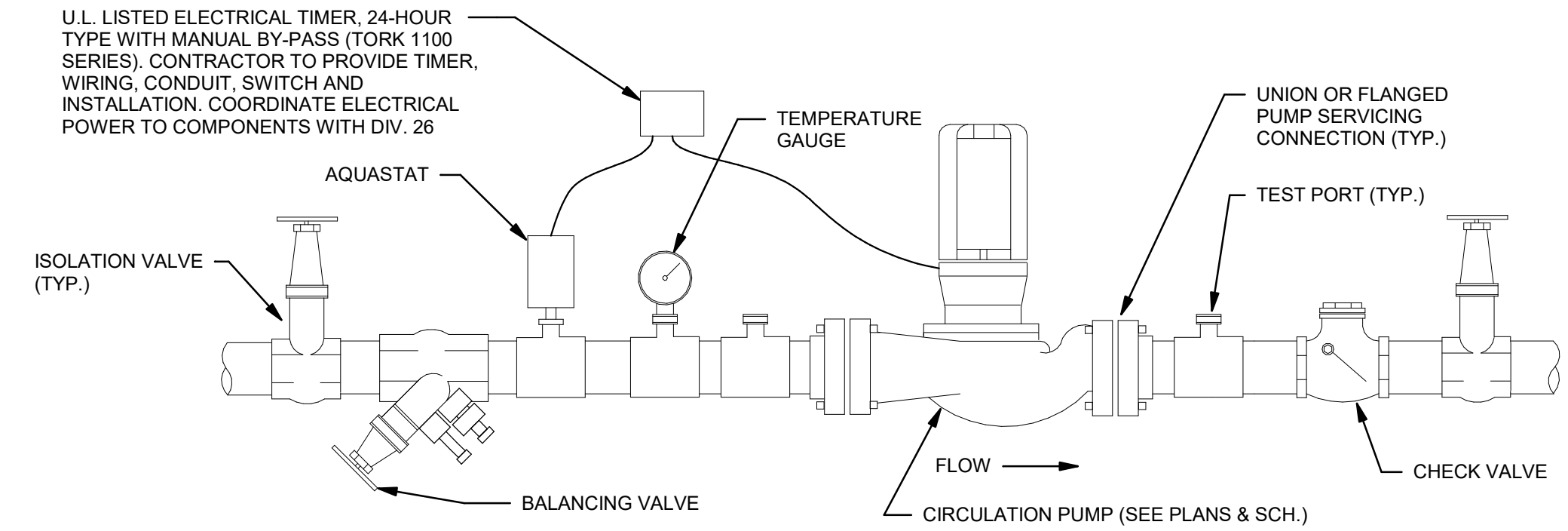
**1 FIRST FLOOR PLAN - PLUMBING**  
0' 4' 8' 16'  
1/4" = 1'-0"





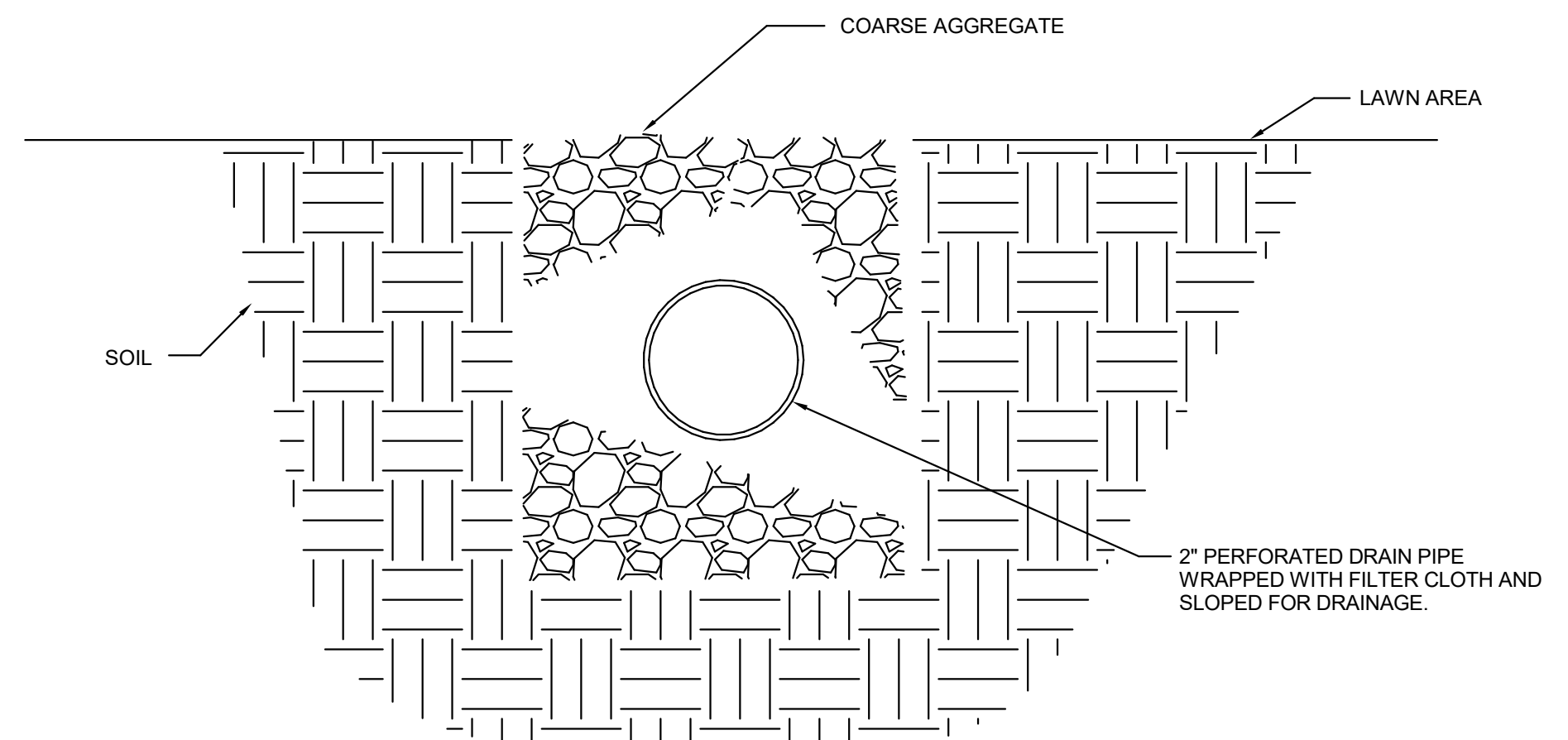
### 1 WALL MOUNTED WATER HEATER

12" = 1'-0"



### 2 CIRCULATION PUMP

NOT TO SCALE



### 3 FRENCH DRAIN

NO SCALE

PROJECT NO.: 23-75  
HOLY TRINITY CATHOLIC CHURCH  
355 OREGON AVE., SE  
BANDON, OREGON 97411

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REVISIONS:  
# DATE DESCRIPTION

DATE: JUNE 2024

SHEET TITLE:  
DETAILS - PLUMBING

P5.1



# MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

## Abbreviations

AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
A/C	AIR CONDITION(ED)
AHU	AIR HANDLING UNIT
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
B	BOILER
BHP	BRAKE HORSEPOWER
CD	CEILING DIFFUSER
CL	CENTERLINE
CV	CHECK VALVE
CH	CHILLER
COP	COEFFICIENT OF PERFORMANCE
CW	COLD WATER
CD	CONDENSATE DRAIN
CU	CONDENSING UNIT
CONT.	CONTINUATION
CT	COOLING TOWER
DB	DECIBEL
DP	DEW POINT, DIFFERENTIAL PRESSURE
DIA	DIAMETER
DX	DIRECT EXPANSION
DG	DOOR GRILLE
D	DROP
DB	DRY BULB
EFF	EFFICIENT
ELECT	ELECTRICAL
EL	ELEVATION
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EF	EXHAUST FAN
(E)	EXISTING
FA	FACE AREA
F	FAHRENHEIT
FC	FAN COIL
FT	FEET
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPI	FINS PER INCH
FD	FIRE DAMPER
FC	FLEXIBLE CONNECTOR
FLA	FULL LOAD AMPS
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HEAT PUMP
HTR	HEATER
HTG	HEATING
HP	HORSEPOWER
HWC	HOT WATER COIL
IN	INCHES
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
LH	LATENT HEAT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MW	MAKE-UP WATER
MAX	MAXIMUM
MIN	MINIMUM
MA	MIXED AIR
MS	MOTOR STARTER
MD	MOTORIZED DAMPER
MH	MOUNTING HEIGHT
(N)	NEW
NC	NOISE CRITERIA
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
OC	ON CENTER
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PH	PHASE
LBS.	POUNDS
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
P	PUMP
QTY	QUANTITY
REF	REFRIGERANT
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RH	RELATIVE HUMIDITY
RLD	RELIEF DAMPER
(R)	RELOCATE/RELOCATED LOCATION
RET	RETURN
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
R	RISE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SH	SENSIBLE HEAT
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SP	STATIC PRESSURE
SA	SUPPLY AIR
T, TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
MBH	THOUSAND BTU'S PER HOUR
TH	TOTAL HEAT
TP	TOTAL PRESSURE
UD	UNDERCUT DOOR
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
V	VOLT
VD	VOLUME DAMPER (HAND OPERATOR)
WC	WATER COLUMN
W	WATT
WB	WET BULB
W/	WITH

## Dampers

	FIRE DAMPER
	FIRE/SMOKE DAMPER
	MOTORIZED DAMPER
	SMOKE DAMPER
	VOLUME DAMPER

## Diffusers and Grilles

	DIFFUSER OR GRILLE IDENTIFICATION
	EXHAUST AIR
	RETURN AIR
	SUPPLY AIR

## Ductwork Fittings

	ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
	BELLMOUTH
	CONCENTRIC SQUARE TO ROUND
	CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
	ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
	FLEXIBLE CONNECTION
	NON-SYMMETRICAL WYE
	RECTANGULAR DUCT DROP
	RECTANGULAR DUCT RISER
	RECTANGULAR MAIN WITH RECTANGULAR BRANCH
	RECTANGULAR MAIN WITH ROUND BRANCH
	RECTANGULAR OFFSET LESS THAN 15% $\Delta$
	RECTANGULAR OFFSET MORE THAN 15% $\Delta$
	ROUND DUCT DROP
	ROUND DUCT RISER
	ROUND DUCT WITH ROUND BRANCH
	ROUND WYE
	SYMMETRICAL WYE
	MITERED ELBOW WITH TURNING VANES
	RADIUSED ELBOW

## General

	DETAIL NUMBER AND SHEET LOCATION
	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	SECTION NUMBER AND SHEET LOCATION
	RECTANGULAR DUCT SIZING

ROUND DUCT SIZING

## Piping Fittings, Appurtenances and Equipment

	AIR SEPARATOR
	AUTOMATIC AIR VENT
	BACKFLOW PREVENTER
	CAP
	CONTINUATION
	EXPANSION JOINT
	EXPANSION LOOP
	EXPANSION TANK
	FLOW SWITCH
	HEAT EXCHANGER
	HOSE BIBB
	MANUAL AIR VENT
	PIPE BELOW GRADE
	PIPE DROP
	PIPE REMOVED IN DEMOLITION
	PIPE RISE
	PIPE TO DRAIN
	PRESSURE GAUGE WITH COCK
	PRESSURE RELIEF VALVE
	PRESSURE SENSOR
	PUMP
	SHOCK ABSORBER
	T&P RELIEF VALVE WITH PIPE TO DRAIN
	TEE DOWN ON PIPE
	TEE UP ON PIPE
	TEMPERATURE SENSOR
	TEST PORT (PETE'S PLUG OR EQUAL)
	THERMOMETER
	VENT TO ATMOSPHERE
	WATER METER

## Piping Systems

	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY

	HEATING WATER RETURN
	HEATING WATER SUPPLY
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION

## Piping Valves

	BALANCING VALVE
	CHECK VALVE
	CONTROL VALVE
	GATE VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	QUARTER TURN VALVE
	VALVE, GENERAL

# GENERAL MECHANICAL NOTES

- THE INTENT OF THESE DRAWINGS IS TO PROVIDE A COMPLETE AND WORKABLE FACILITY WITH COMPLETE SYSTEMS AS SHOWN, SPECIFIED AND REQUIRED BY APPLICABLE CODES. INCLUDE ALL WORK SPECIFIED AND SHOWN ON THE ACCOMPANYING DRAWINGS, INCLUDING APPURTENANCES, CONNECTIONS, ETC., IN THE FINISHED JOB.
- ALL WORK AND MATERIALS SHALL CONFORM TO THE LOCAL AND STATE CODES, AND ALL FEDERAL, STATE AND OTHER APPLICABLE LAWS AND REGULATIONS.
- CONTRACTOR RESPONSIBLE FOR OBTAINING AND PAYMENT FOR ALL PERMITS, LICENSES, AND INSPECTION CERTIFICATES REQUIRED IN ACCORDANCE WITH PROVISIONS OF CONTRACT DOCUMENTS.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTORS SHALL INCLUDE APPROPRIATE ALLOWANCES FOR OFFSETS AS REQUIRED TO ACCOMMODATE VERTICAL AND HORIZONTAL VARIATIONS IN THE LOCATIONS AND ELEVATIONS OF DUCTWORK, PIPING AND OTHER EQUIPMENT.
- MATERIALS AND EQUIPMENT SHALL BE NEW. WORK SHALL BE OF GOOD QUALITY, FREE OF FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
- COORDINATE DEMOLITION, CUTTING, PATCHING, ETC. WITH EXISTING FIELD CONDITIONS. ALL NEW OR EXISTING WORK CUT OR DAMAGED SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
- CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF DUCTWORK AND UTILITIES TO BE CROSSED OR CONNECTED.
- PROVIDE CEILING ACCESS PANELS FOR COMPONENTS LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS. MAINTAIN FIRE RATINGS WHERE REQUIRED.
- SEAL ALL EXISTING AND NEW FIRE RATED PIPE AND DUCTWORK PENETRATIONS WITH UL LISTED AND FIRE MARSHAL APPROVED FIRE RETARDANT MATERIALS AND METHODS.
- CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL AND COMPONENTS REQUIRED TO SUPPORT DUCT, PIPE, MECHANICAL EQUIPMENT, AND ELECTRICAL CONTROL PANELS RELATED TO MECHANICAL EQUIPMENT. PROVIDE FLOOR SUPPORT COMPONENTS, HANGERS AND SEISMIC RESTRAINTS AS REQUIRED.

**HGE**  
ARCHITECTS, INC.

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**INTERFACE**  
ENGINEERING

PROJECT: 2023-1150  
CONTACT: Rick Silenoff  
100 SW Main Street, Suite 1600  
Portland, OR 97204  
TEL: 503.382.2266  
www.interfaceengineering.com



EXPIRES: 12/31/25

PROJECT NO.: 23-75

HOLY TRINITY CATHOLIC CHURCH

355 OREGON AVE., SE  
BANDON, OREGON 97411

## 100% CD

REVISIONS:  
# DATE DESCRIPTION

DATE: JUNE 28, 2024

SHEET TITLE:  
**SYMBOL LIST AND  
GENERAL NOTES -  
MECHANICAL**

**M0.1**

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## SHEET INDEX

M0.1	SYMBOL LIST AND GENERAL NOTES - MECHANICAL
M0.2	SCHEDULES - MECHANICAL
M2.1	FIRST FLOOR PLAN - MECHANICAL
M4.1	ENLARGED PLANS AND SECTIONS - MECHANICAL
M6.1	DETAILS - MECHANICAL





EXPIRES: 12/31/25

PROJECT NO.: 23-75  
**HOLY TRINITY CATHOLIC CHURCH**  
355 OREGON AVE. SE  
BANDON, OREGON 97411

100% CD

REVISIONS:  
# DATE DESCRIPTION

DATE: JUNE 28, 2024

SHEET TITLE:  
**SCHEDULES -  
MECHANICAL**

**M0.2**

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FAN SCHEDULE																
SYMBOL	LOCATION	AREA SERVED	BASIS OF DESIGN		TYPE	DRIVE	AIR FLOW (CFM)	ESP (IN H2O)	MAX RPM	SOUNDS SONES	ELECTRICAL				MAX WT (LBS)	COMMENTS
			MFR	MODEL							VOLTS	PH	BHP	MHP		
EF-1	MECH ROOM	MECH ROOM	GREENHECK	SP-A200	EXHAUST FAN	DIRECT	200	0.3	900	3.1	120	1	.03	0.07	24	1
EF-2	WOMENS	WOMENS	GREENHECK	SP-A200	EXHAUST FAN	DIRECT	160	0.4	900	3.7	120	1	.03	0.07	24	1
EF-3	MENS	MENS	GREENHECK	SP-A125	EXHAUST FAN	DIRECT	90	0.3	1100	1.3	120	1	.01	0.03	17	1
EF-4	SERVICE HALL	CHURCH	GREENHECK	SQ-15-M2	INLINE FAN	DIRECT	4000	0.4	1750	19.5	120	1	0.83	1	92	2

NOTES:  
1. PROVIDE WITH SPEED CONTROL AND BACKDRAFT DAMPER AT FAN.  
2. PROVIDE WITH VFD LOCATED IN MECHANICAL ROOM FOR BALANCING AND VOLUME CONTROL.

HEAT PUMP SCHEDULE																	
SYMBOL	LOCATION	AREA SERVED	BASIS OF DESIGN		RELATED FAN	NOM TONS	AIR SOURCE CONDENSER				ELECTRICAL				APPROX DIMS (LxWxH)	MAX WT (LBS)	COMMENTS
			MFR	MODEL			QTY OF COMPRESSORS	CAP (MBH)	AMB TEMP (°F)	MIN EFF	VOLTS	PH	MCA	MOCP			
CU-1	OUTSIDE	CHURCH	TRANE	TWA-1804	FC-1	12.5	2	160.0	80	11.9	208	3	65.0	80	94x45x45	750	1
CU-2	OUTSIDE	CHAPEL	TRANE	4TWR-5030	FC-2	2.5	1	30.0	80	15	208	1	15.0	20	32x30x28	170	1

NOTES:  
1. PROVIDE COIL COATING FOR COASTAL APPLICATION.

FAN COIL SCHEDULE																
SYMBOL	LOCATION	SERVING	BASIS OF DESIGN		SUPPLY FAN				ELECTRICAL				ECM MOTOR	MAX WT (LBS)	COMMENTS	
			MFR	MODEL	TOTAL (CFM)	MIN OSA (CFM)	FAN ESP (IN H2O)	FAN MOTOR HP	AUX HTG (KW)	VOLTS	PH	MCA				MOCP
FC-1	MECH ROOM	CHURCH	TRANE	TWE185041B	5500	2500	0.85	5	30	240	1	161.0	175	Y	690	1,2
FC-2	MECH ROOM	CHAPEL	TRANE	TAM9A0B30	1000	250	0.4	1.5	7.7	240	1	45.0	45	Y	140	1

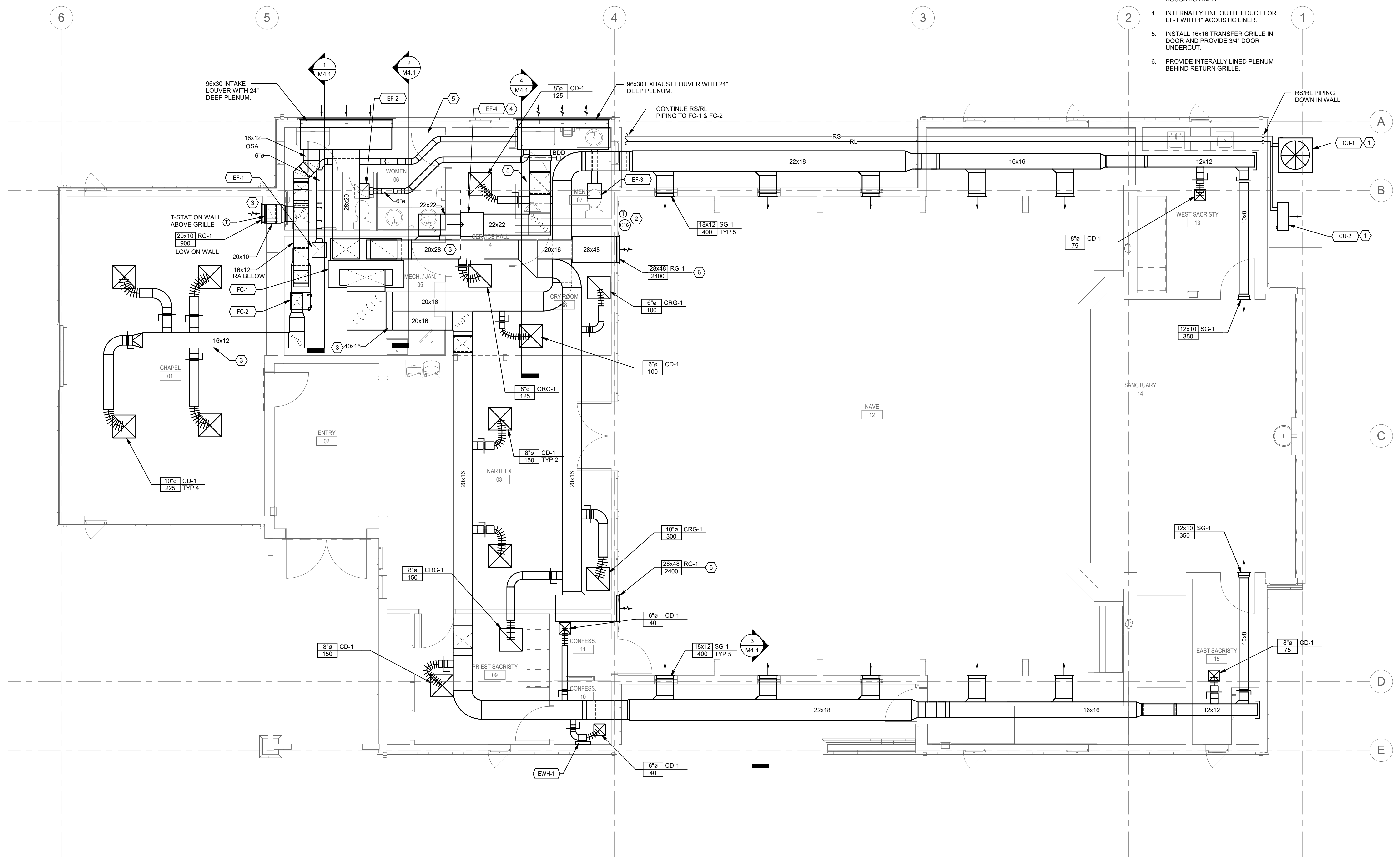
NOTES:  
1. MOUNT ON 1 INCH ISOLATION PADS. SEE SPECIFICATIONS.  
2. PROVIDE COIL COATING FOR COASTAL APPLICATION.

DIFFUSER, REGISTER AND GRILLE SCHEDULE								
SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	BASIS OF DESIGN		COMMENTS
						MFR.	MODEL	
CD-1	CEILING SUPPLY DIFFUSER	LOUVERED	LAY-IN	NONE	WHITE	TITUS	TMS	
CRG-1	CEILING RETURN GRILLE	PERFORATED	LAY-IN	NONE	WHITE	TITUS	PAR	
RG-1	RETURN WALL GRILLE	LOUVERED	SURFACE	NONE	WHITE	TITUS	350RL	
SG-1	SUPPLY WALL GRILLE	LOUVERED	SURFACE	OBD	WHITE	TITUS	300R	



**SHEET KEYNOTES**

- ROUTE REFRIGERANT PIPING ALONG SIDE DUCTWORK BACK TO MECHANICAL ROOM.
- PROVIDE PROGRAMMABLE THERMOSTAT WITH CO2 SENSOR CAPABLE OF FULL PROGRAMMING AS DESCRIBED IN THE PROJECT SPECIFICATIONS.
- INTERNALLY LINE THE FIRST 25' OF ALL SUPPLY AND RETURN DUCTS WITH 1" ACOUSTIC LINER.
- INTERNALLY LINE OUTLET DUCT FOR EF-1 WITH 1" ACOUSTIC LINER.
- INSTALL 16x16 TRANSFER GRILLE IN DOOR AND PROVIDE 3/4" DOOR UNDERCUT.
- PROVIDE INTERIALLY LINED PLENUM BEHIND RETURN GRILLE.



PROJECT NO.: 23-75  
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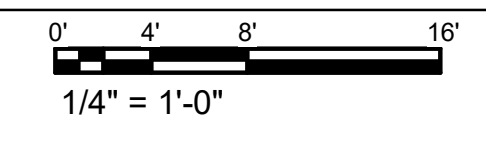
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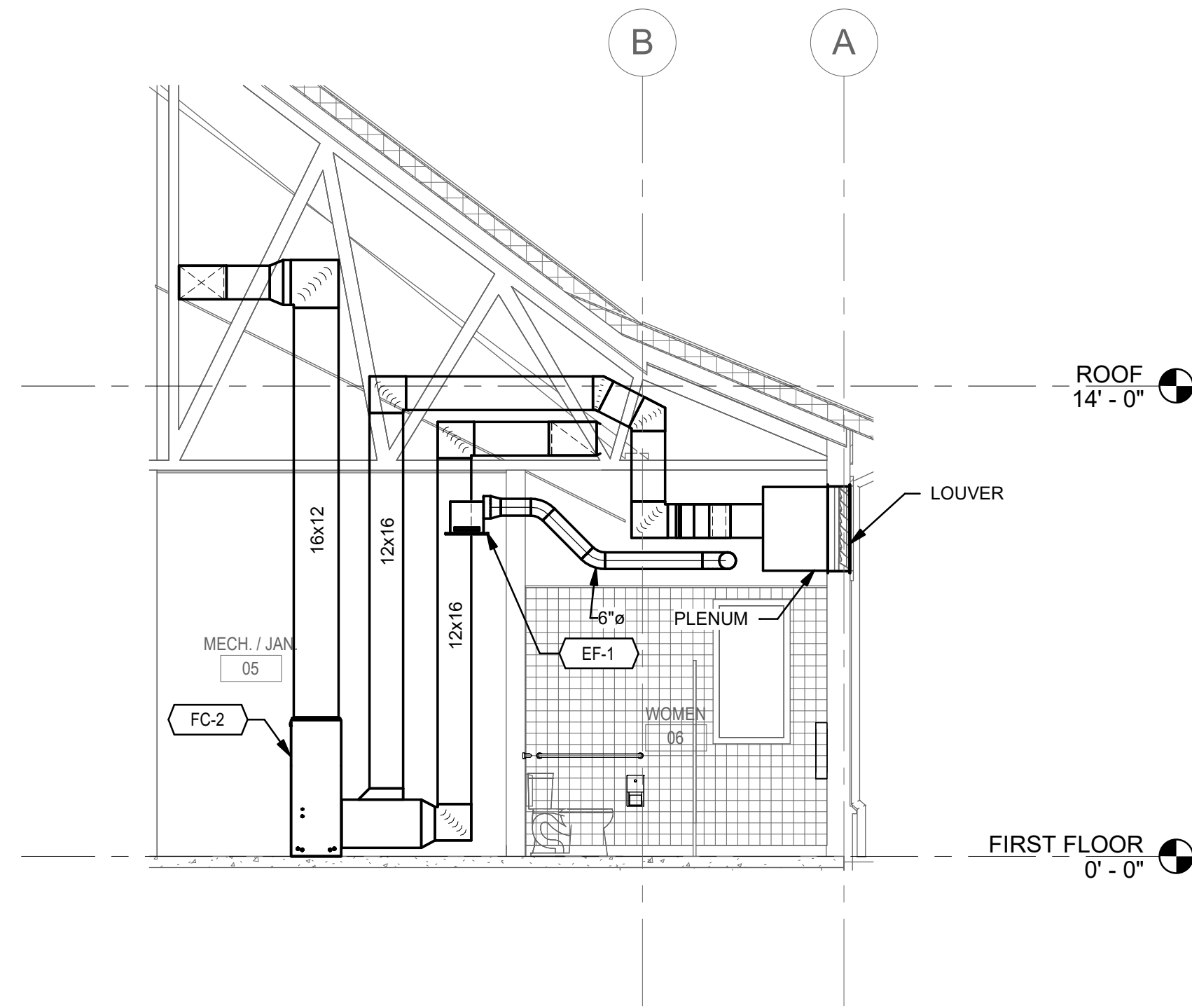
DATE: JUNE 28, 2024  
SHEET TITLE:  
**FIRST FLOOR PLAN - MECHANICAL**

**M2.1**  
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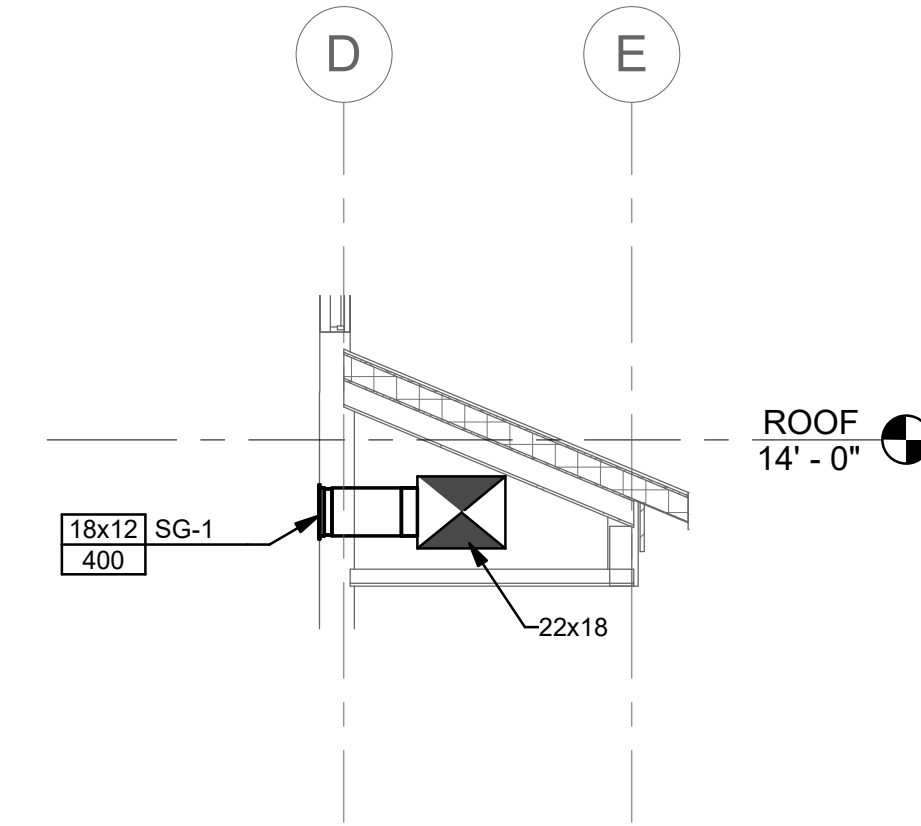
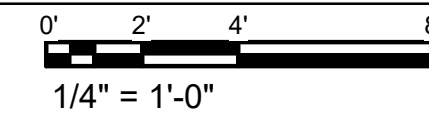
**1 FIRST FLOOR MECHANICAL PLAN - OVERALL**



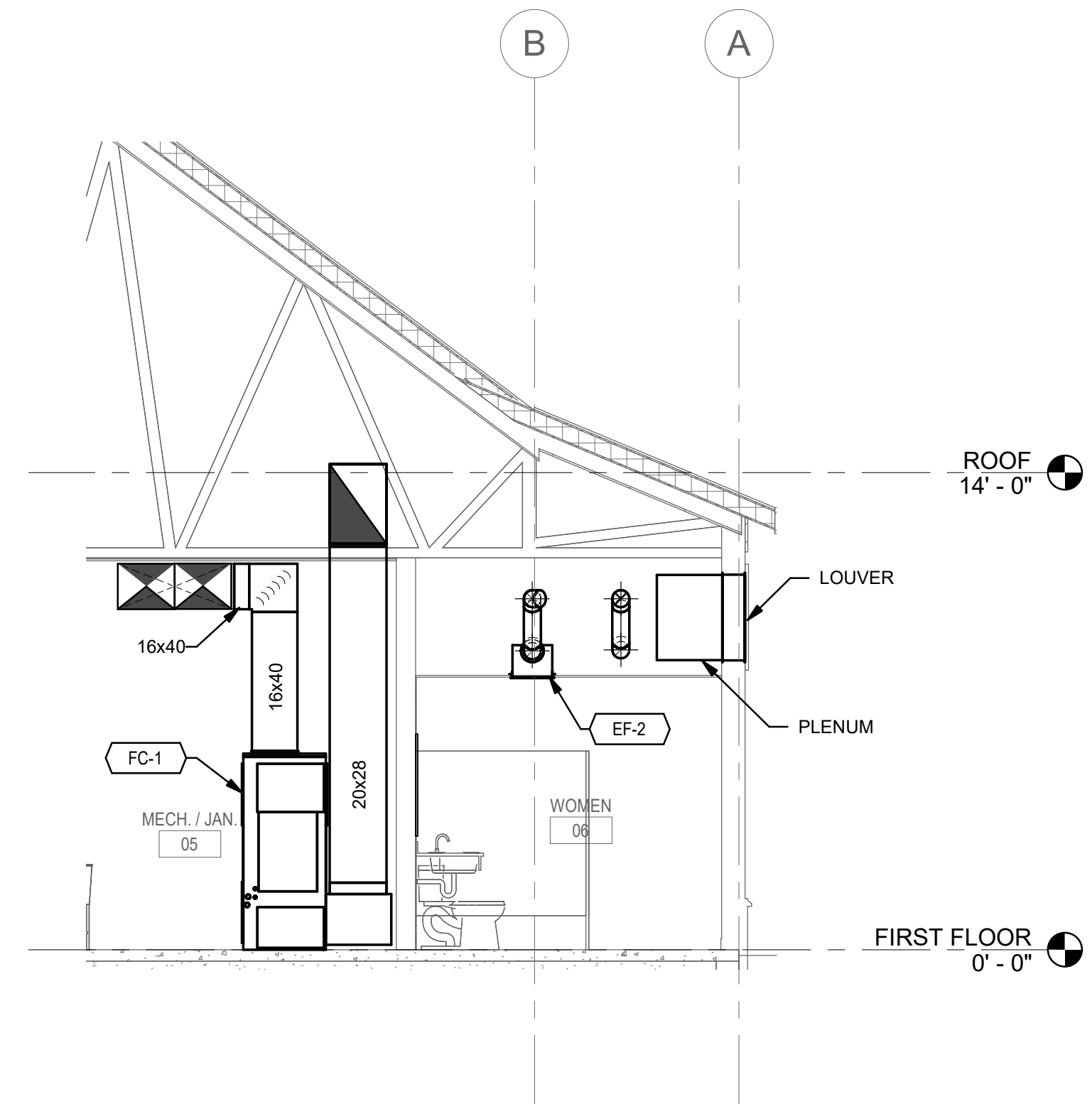
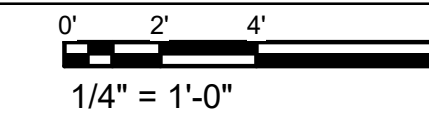




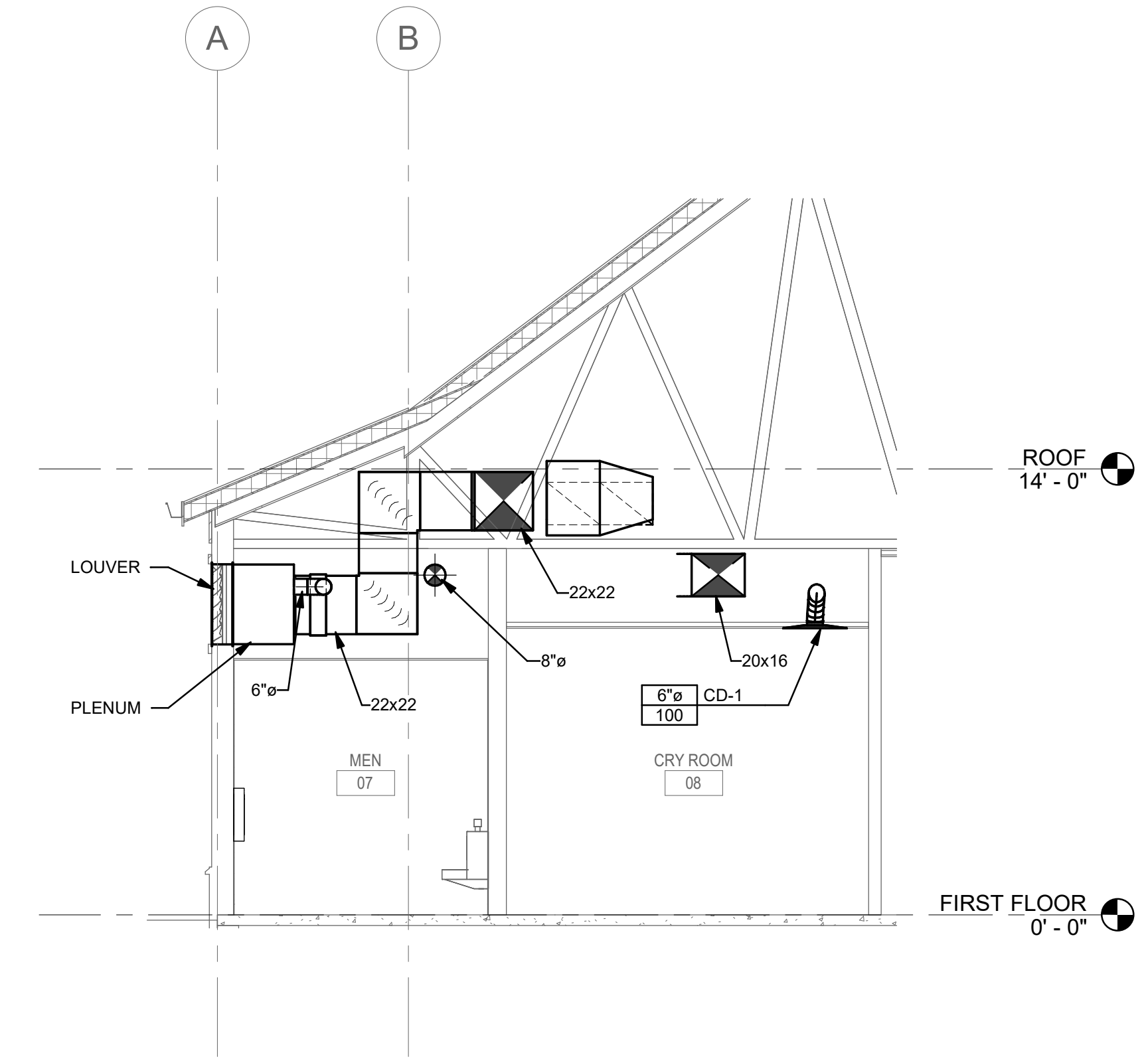
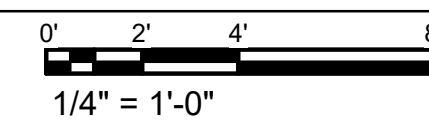
**1 SECTION A**



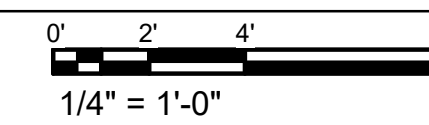
**3 SECTION C**



**2 SECTION B**



**4 SECTION D**



PROJECT NO.: 23.75  
**HOLY TRINITY CATHOLIC CHURCH**  
355 OREGON AVE., SE  
BANDON, OREGON 97411

PROJECT NO.: 23.75

100% CD

REVISIONS:

#	DATE	DESCRIPTION

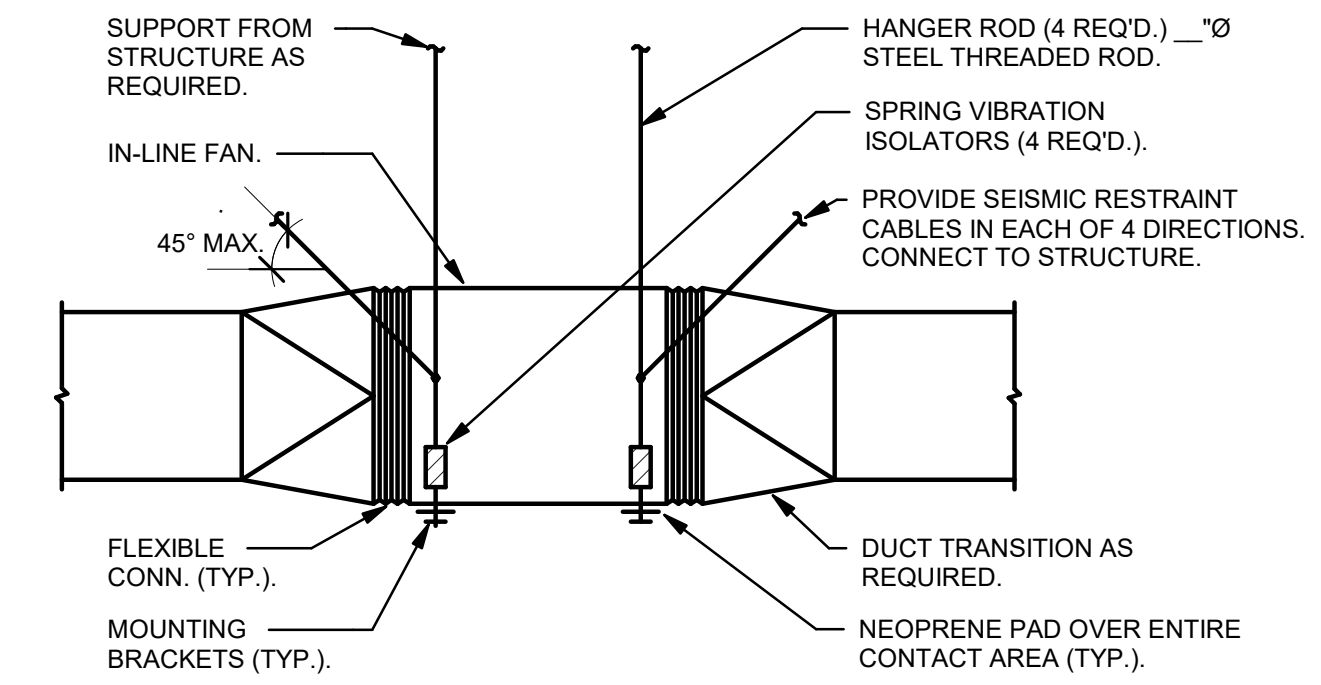
DATE: JUNE 28, 2024

SHEET TITLE:  
**ENLARGED PLANS  
AND SECTIONS -  
MECHANICAL**

**M4.1**

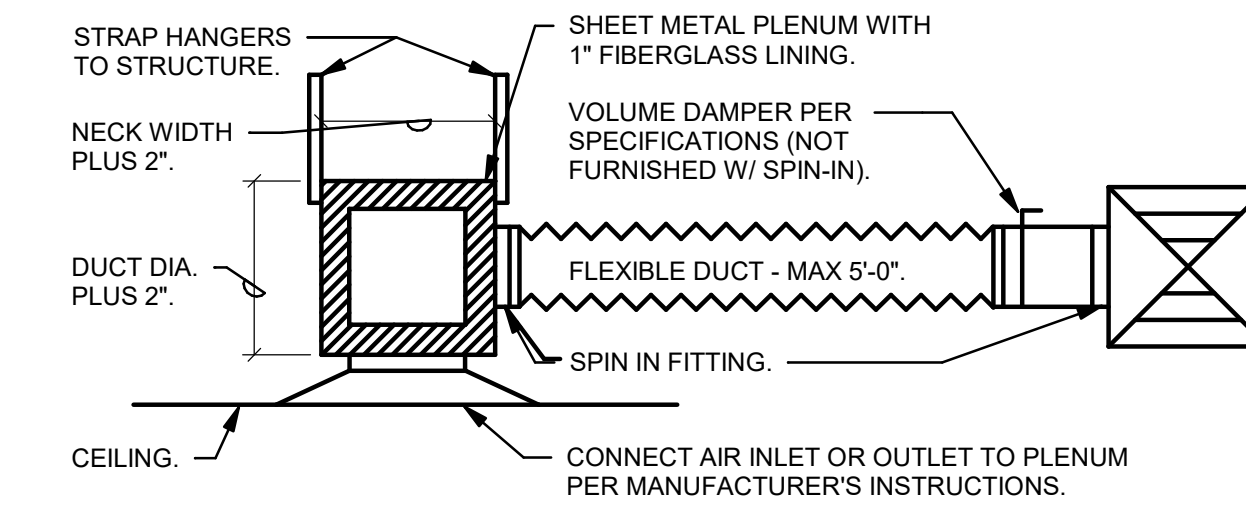
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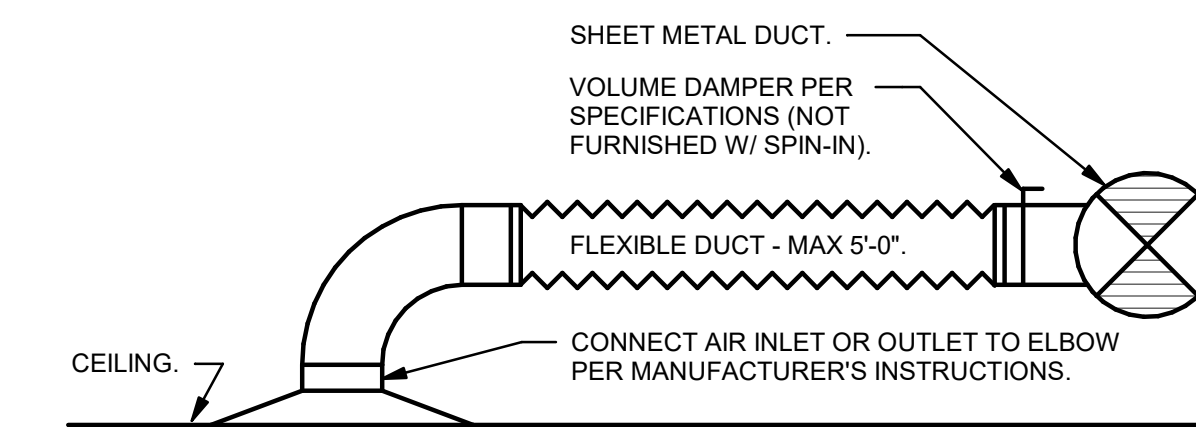
**1 IN-LINE FAN**

NO SCALE



**2 AIR INLET OR OUTLET SQUARE NECK**

NO SCALE



**3 AIR INLET OR OUTLET ROUND NECK**

NO SCALE

PROJECT NO.: 23-75  
HOLY TRINITY CATHOLIC CHURCH

355 OREGON AVE., SE  
BANDON, OREGON 97411

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#	DATE	DESCRIPTION

DATE: JUNE 28, 2024

SHEET TITLE:  
**DETAILS - MECHANICAL**

**M6.1**



# ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations	
AFC	ABOVE FINISHED CEILING
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AC	ALTERNATING CURRENT, AIR CONDITIONER
AWG	AMERICAN WIRE GAUGE
A	AMPERES
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
CAT	CATEGORY
C	CONDUIT, CLOSE, CONTROL
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CU	COPPER
CT	CURRENT TRANSFORMER
dB	DECIBEL
(X)	DEMOLISH
EMT	ELECTRICAL METALLIC TUBING
EM	EMERGENCY LIGHT
(E)	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FMC	FLEXIBLE METAL CONDUIT
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MA	MANUAL-AUTO
MOCP	MAXIMUM OVERCURRENT PROTECTION
MCA	MINIMUM CIRCUIT AMPS
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
OS	OCCUPANCY SENSOR
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
RFI	REQUEST FOR INFORMATION
RMC	RIGID METAL CONDUIT
RM	ROOM
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
XFMR	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
VFD	VARIABLE FREQUENCY DRIVE
V	VOLTS, VOLTAGE
WH	WATER HEATER
WP	WEATHERPROOF
W	WIRE, WHITE

Connections / Equipment	
	HEAVY DUTY FUSED DISCONNECT SWITCH
	MOTOR CONNECTION
	NON-FUSED DISCONNECT SWITCH
	RELAY (UL 924)
	REMOTE DRIVER FOR LED LUMINAIRES
	UTILITY METER BASE
	CEILING MOUNTED JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	WALL-MOUNTED JUNCTION BOX
General	
	DETAIL NUMBER AND SHEET LOCATION
	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	DEMOLISH
	NEW WORK
Lighting	
	EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	LUMINAIRE RECESSED IN WALL
	RECESSED 2' X 4' LUMINAIRE
	RECESSED LUMINAIRE
	RECESSED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT
	SURFACE MOUNTED ADJUSTABLE LUMINAIRE
	SURFACE OR PENDANT MOUNTED LUMINAIRE
	SURFACE OR PENDANT MOUNTED STRIPLIGHT
	TRACKLIGHT WITH LUMINAIRE(S)
	WALL MOUNTED 6" WIDE LUMINAIRE
	WALL MOUNTED LUMINAIRE
	AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE. NUMBER OF HEADS AND CONFIGURATION INDICATED ON PLANS.
	AREA LUMINAIRE POLE TOP MOUNTED WITH POLE AND CONCRETE BASE.
Miscellaneous	
	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	CURRENT TRANSFORMER
	EQUIPMENT CONNECTION ITEM. REFER TO SCHEDULE
	METER WITH CONNECTION
	POWER UTILITY POLE
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	TELEPHONE UTILITY POLE

Raceways	
	EXISTING OVERHEAD PRIMARY SERVICE
	UNDERGROUND SECONDARY SERVICE
	CONDUIT CONCEALED IN WALL OR CEILING SPACE
	CONDUIT ROUTED BELOW FLOOR / GRADE
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	CONDUIT/WIRING CONTINUATION
	FLEXIBLE CONDUIT
Switches and Receptacles	
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER C = FLUSH CEILING MOUNTED G = GROUND FAULT CIRCUIT INTERRUPTER T = TAMPER RESISTANT SHUTTERED RECEPTACLE U = USB PORT(S) W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
	DUPLEX RECEPTACLE, FLUSH FLOOR
	DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
	EQUIPMENT ELECTRICAL CONNECTION
	SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
	CEILING MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY U = ULTRASONIC, 360 DEG RANGE H = ULTRASONIC, HALLWAY PATTERN v (LOWERCASE) = VACANCY CONTROL DESIGNATION
	WALL MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY v (LOWERCASE) = VACANCY CONTROL DESIGNATION
	WALL MOUNTED OCCUPANCY SENSOR/SWITCH S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF. v (LOWERCASE) = VACANCY CONTROL DESIGNATION

# TECHNOLOGY SYMBOL LIST

Audio/Video	
	FLUSH MOUNTED WALL SPEAKER WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE AND CABLING PER SPECIFICATIONS. HEIGHT AS INDICATED
	MICROPHONE DEVICE WITH 1" CONDUIT TO ACCESSIBLE CEILING AND CABLING PER SPECIFICATIONS
	VOLUME CONTROL. PROVIDE 5S BOX WITH SINGLE GANG ADAPTER RING AND 1.25" CONDUIT WITH PROTECTIVE BUSHING, STUBBED TO NEAREST ACCESSIBLE CEILING SPACE
Equipment	
	MAJOR EQUIPMENT, CABINETS OR PANELS
Telecommunications	
	CEILING MOUNTED TELECOM OUTLET MOUNTED ON CEILING WITH ONE CATEGORY 6A CABLE. PROVIDE 5S BOX WITH SINGLE GANG ADAPTER RING AND 1-1/4" CONDUIT WITH PROTECTIVE BUSHING STUBBED TO NEAREST ACCESSIBLE CEILING SPACE. MOUNTED AT +18" UON.
	TELECOM OUTLET WITH ONE CATEGORY 6 CABLE. PROVIDE 5S BOX WITH SINGLE GANG ADAPTER RING AND 1-1/4" CONDUIT WITH PROTECTIVE BUSHING STUBBED TO NEAREST ACCESSIBLE CEILING SPACE. MOUNTED AT +18" UON.
	TELECOM OUTLET WITH TWO CATEGORY 6 CABLES. PROVIDE 5S BOX WITH SINGLE GANG ADAPTER RING AND 1-1/4" CONDUIT WITH PROTECTIVE BUSHING STUBBED TO NEAREST ACCESSIBLE CEILING SPACE. MOUNTED AT +18" UON.
	WALL PHONE OUTLET WITH ONE CATEGORY 6 CABLE. PROVIDE 5S BOX WITH SINGLE GANG ADAPTER RING AND 1-1/4" CONDUIT WITH PROTECTIVE BUSHING STUBBED TO NEAREST ACCESSIBLE CEILING SPACE. MOUNTED AT +42" AFF



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EXPIRES: 06/30/24

PROJECT NO.: 23-75  
**HOLY TRINITY CATHOLIC CHURCH**  
 355 OREGON AVE. SE  
 BANDON, OREGON 97411

## SHEET INDEX

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E1.1			SITE PLAN - ELECTRICAL
E2.1			FIRST FLOOR PLAN - LIGHTING
E3.1			FIRST FLOOR PLAN - POWER & SIGNAL
E4.1			ENLARGED PLANS AND SECTIONS - ELECTRICAL
E5.1			SINGLE LINE DIAGRAM - ELECTRICAL
E6.1			SCHEDULES - ELECTRICAL

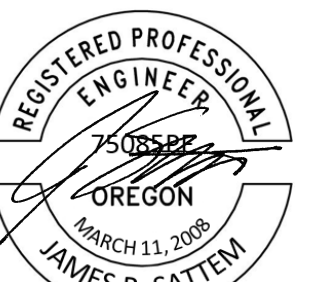
DATE: JUNE 28, 2024

SHEET TITLE:  
**SYMBOL LIST AND GENERAL NOTES - ELECTRICAL**

# E0.1

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EXPIRES: 06/30/24

PROJECT NO.: 23-75

HOLY TRINITY CATHOLIC CHURCH

355 OREGON AVE., SE  
BANDON, OREGON 97411

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REVISIONS:  
# DATE DESCRIPTION

DATE: JUNE 28, 2024

SHEET TITLE:  
SCHEDULES -  
LIGHTING

E0.2

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	DRIVER/POWER SUPPLY	LIGHT SOURCE	INPUT WATTS	MFG/CATALOG #	NOTES
'A1'	DECORATIVE LED CYLINDER PENDANT	31-INCH TALL BY 11.5-INCH DIAMETER SPUN ALUMINUM	EXTRUDED WHITE ACRYLIC DIFFUSER	PENDANT	BRUSHED ALUMINUM		INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 3796 LUMENS, 3500K CCT, 80 CRI LED	40.0	MANNING LIGHTING COLUMN RAIL PENDANT OR APPROVED.	
'A2'	DECORATIVE LED CYLINDER PENDANT	22.5-INCH TALL BY 9.25-INCH DIAMETER SPUN ALUMINUM	EXTRUDED WHITE ACRYLIC DIFFUSER	PENDANT	BRUSHED ALUMINUM		INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 2730 LUMENS, 3500K CCT, 80 CRI LED	27.0	MANNING LIGHTING COLUMN RAIL PENDANT OR APPROVED.	
'B1'	DECORATIVE LED WALL SCONCE	16-INCH TALL BY 10-INCH WIDE BY 6-INCH DEEP METAL PAN WITH CROSS ACCENT	WHITE ACRYLIC DIFFUSER	WALL	ALUMINUM		INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 1350 LUMENS, 3500K CCT, 80 CRI	15.0	CAMMAN LIGHTING W600 OR APPROVED.	
'B2'	WALL MOUNT DIRECT/INDIRECT LED CYLINDER	8-INCH TALL BY 4-INCH DIAMETER EXTRUDED ALUMINUM	SOFT DIFFUSED LENS, WIDE FLOOR FOR BOTH DIRECT AND INDIRECT BEAM	WALL	MATTE WHITE		INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 1538 LUMENS DIRECT, 2146 LUMENS INDIRECT, 3500K CCT, 80 CRI	34.0	LUMENWERX AERA 4" CYLINDER OR APPROVED.	
'B3'	DECORATIVE LED WALL SCONCE	12-INCH TALL BY 10-INCH TALL BY 4-INCH DEEP WITH METAL ACCENTS	WHITE ACRYLIC DIFFUSER	WALL	ALUMINUM		INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 1150 LUMENS, 3500K CCT, 80 CRI LED	15.0	CAMMAN LIGHTING W210 LYCOMING OR APPROVED.	
'C1'	2-FOOT BY 4-FOOT RECESSED VOLUMETRIC TROFFER	24-INCH WIDE BY 48-INCH LONG BY 4-INCH TALL	CURVED ACRYLIC LENS	RECESSED	WHITE		INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 3000 LUMENS, 3500K CCT, 80 CRI LED	23.0	LITHONIA ENVEX OR APPROVED.	
'D1'	RECESSED 4-INCH DIAMETER DOWNLIGHT	8.5-INCH WIDE BY 13-INCH LONG BY 6-INCH TALL STEEL		RECESSED	MATTE WHITE BAFFLE		INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 2146 LUMENS, 3500K CCT, 80 CRI LED	20.0	LUMENWERX AERA 4, GOTHAM, PORTFOLIO	PROVIDE WITH WIDE FLOOD BEAM OPTIC
'D2'	RECESSED 2-INCH DIAMETER DOWNLIGHT	6-INCH WIDE BY 13-INCH LONG BY 4-INCH TALL STEEL		RECESSED	MATTE WHITE BAFFLE		INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 961 LUMENS, 3500K CCT, 80 CRI LED	10.0	LUMENWERX AERA 4, GOTHAM, PORTFOLIO	
'F1'	4-INCH DIAMETER CYLINDER TRACK HEAD	4.75-INCH WIDE BY 7-INCH LONG DIE-CAST ALUMINUM	PROVIDE FLOOD BEAM SPREAD LENS	TRACK MOUNTED	BLACK TEXTURE		CONSTANT CURRENT LED DRIVER	NOMINAL 2014 LUMENS, 3500K CCT, 80 CRI LED	21.0	AMERLUX SPEQ-M WITH GES204 TRACK OR APPROVED.	PROVIDE WITH GLOBAL SINGLE CIRCUIT TRACK, BLACK FINISH, 44-INCH LONG, MOUNTED TO VERTICAL FACE OF TRUSS
'F2'	4-INCH DIAMETER CYLINDER MONOPOINT	4.75-INCH WIDE BY 7-INCH LONG DIE-CAST ALUMINUM	PROVIDE NARROW FLOOD SPREAD LENS	SUSPENDED MONOPOINT	BLACK TEXTURE		CONSTANT CURRENT LED DRIVER	NOMINAL 2014 LUMENS, 3500K CCT, 80 CRI LED	21.0	AMERLUX SPEQ-M OR APPROVED.	
'G1'	DECORATIVE ROUND SURFACE LED LUMINAIRE	18-INCH WIDE BY 6-INCH TALL	WHITE ACRYLIC DIFFUSER	SURFACE	ALUMINUM		INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 1350 LUMENS, 3500K CCT, 80 CRI LED	25.0	CAMMAN LIGHTING C5305 MORGAN OR APPROVED.	
'R1'	LED VANITY	27-INCH WIDE BY 4.75-INCH TALL BY 3.4-INCH DEEP WITH STEEL MOUNTING	MATTE WHITE ACRYLIC DIFFUSER	WALL	SATIN NICKEL		INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 1872 LUMENS, 3500K CCT, 80 CRI	29.0	OXYGEN MAGENTA OR APPROVED.	
'T1'	SURFACE MOUNTED LED TAPE LIGHT W/ CORNER BENDING FOR HORIZONTAL BENDS	N/A	N/A	SURFACE MOUNTED WITHIN STATUE NICHE	NA		REMOTE DRIVER, REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS; 0-10V DIMMING	NOMINAL 163 LUMENS PER FOOT, 3500K CCT, 90 CRI	39.2	KELVIX JAGGER SERIES OR APPROVED.	2.2 WATTS/FT
'X'	THIN PROFILE UNIVERSAL MOUNT EXIT SIGN	NOMINAL 12"W x 8.5"H x 0.5"D. DIE CAST ALUMINUM HOUSING; CONTRACTOR TO VERIFY BACKBOX REQUIREMENTS DURING ROUGH-IN	NA	REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING CONDITIONS		UL DAMP	INTEGRAL DRIVER		2.0	EVENLITE RAZOR SERIES; ISOLITE, PATHWAY, SURE-LITES TPX, BARRON LIGHTING, OR APPROVED	
'Z1'	LED STRIP LIGHT	48-INCH LONG BY 3-INCH TALL BY 3-INCH WIDE STEEL	FROSTED CURVED LENS	SURFACE	WHITE		INTEGRAL ELECTRONIC DRIVER	NOMINAL 3600 LUMENS, 3500K CCT, 80 CRI	27.0	COLUMBIA MPS, LITHONIA, METALUX	
'SA'	POLE MOUNTED AREA LUMINAIRE	14-INCH WIDE BY 26" LONG BY 7.5-INCH TALL DIE-CAST ALUMINUM HOUSING	SILICONE LENSES	POLE MOUNTED (PROVIDE ROUND POLE MOUNTING ADAPTER)	BLACK	WET	INTEGRAL ELECTRONIC DRIVER		171.0	LITHONIA DSXO SERIES OR APPROVED.	PROVIDE WITH FULL BACKLIGHT CONTROL OPTION AND POLE ADAPTER FOR INSTALLATION ON EXISTING POLE.
'SB'	EXTERIOR WALL SCONCE	9-INCH WIDE BY 8-INCH TALL BY 5.5-INCH DEEP DIE-CAST ALUMINUM HOUSING	GASKETED LENS ITH VIAL COMFORT WIDE OPTICS	WALL	DARK BRONZE	WET	INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 2000 LUMENS, 3000K CCT, 80 CRI LED	15.0	LITHONIA WDGE1 OR APPROVED.	PROVIDE WITH CORROSIVE RESISTANT FINISH.
'SC'	RECESSED 4-INCH DIAMETER DOWNLIGHT	8.5-INCH WIDE BY 13-INCH LONG BY 4-INCH TALL STEEL	GASKETED TRIM WITH WIDE FLOOD OPTICS	RECESSED	MATTE WHITE BAFFLE	WET	INTEGRAL 0-10V DIMMING DRIVER	NOMINAL 1501 LUMENS, 3000K CCT, 80 CRI LED	14.0	LUMENWERX VOILA SEAL, GOTHAM, PORTFOLIO.	PROVIDE WITH CORROSIVE RESISTANT FINISH.

NOTES

- THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
- DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
- PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.
- COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
- SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
- PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DIMMABLE LED DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD
- REMOTE DRIVERS: UL LISTED FOR THEIR APPLICATION. DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.

LIGHTING CONTROL MATRIX OF OPERATIONS: HOLY TRINITY CHURCH

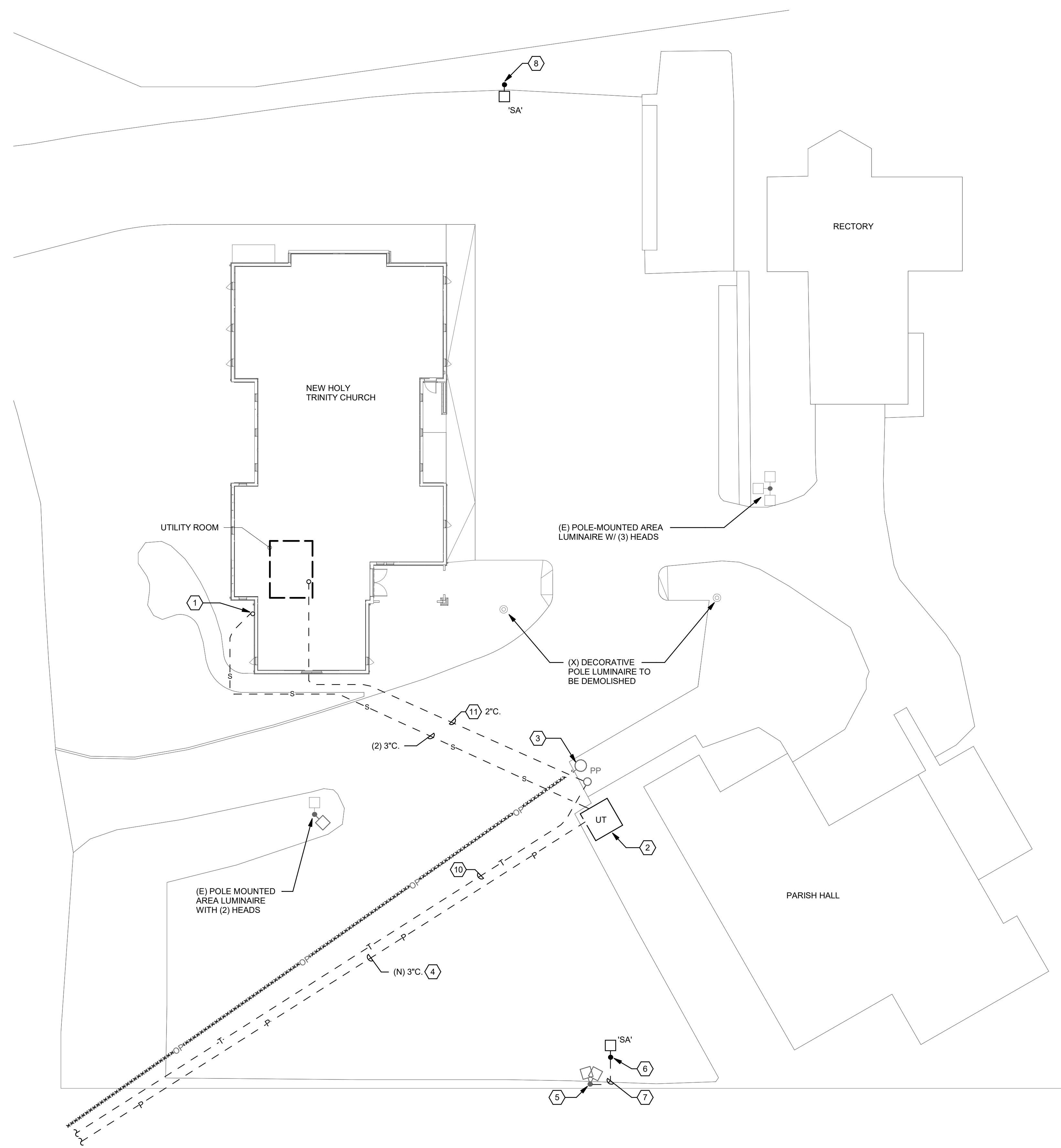
SPACE TYPE	OCCUPANCY SENSOR TYPE	ALL LUMINAIRES CONFIGURED FOR CONTINUOUS DIMMING	CONTROL FUNCTIONS	OVERRIDES	REMARKS
ENTRY, CHAPEL, SERVICE HALL, NARTHEX	ULTRASONIC	YES	MANUAL ON WITH WALL SWITCH, AUTO OFF AFTER 20 MINUTES OF UNOCCUPANCY.	POWER LOSS FOR EMERGENCY LUMINAIRES, SWITCH OFF	
RESTROOMS	DUAL TECH, SENSOR SWITCH	NO	AUTO ON WITH SENSOR, AUTO OFF AFTER 20 MINUTES OF UNOCCUPANCY.	POWER LOSS FOR EMERGENCY LUMINAIRES	
MECH / JAN	NONE	NO	MANUAL ON/OFF WITH WALL SWITCH.	POWER LOSS FOR EMERGENCY LUMINAIRES	
CRY ROOM, PRIEST SACRISTY, EAST SACRISTY, WEST SACRISTY	DUAL TECH	YES	MANUAL ON WITH WALL SWITCH, AUTO OFF AFTER 20 MINUTES OF UNOCCUPANCY.		
CONFessionALS	SENSOR SWITCH	YES	MANUAL ON WITH SENSOR SWITCH, AUTO OFF AFTER 20 MINUTES OF UNOCCUPANCY.		
NAVE, SANCTUARY	NONE	YES	MANUAL ON/OFF WITH WALL SWITCH.	POWER LOSS FOR EMERGENCY LUMINAIRES	
EXTERIOR	NONE	YES	AUTO ON/OFF WITH ASTRONOMICAL TIMECLOCK.		PROVIDE STANDALONE ROOM CONTROLLER TIMECLOCK

GENERAL NOTES:

- EMERGENCY LIGHTING DIMS / ON-OFF WITH NORMAL LIGHTING UNLESS NORMAL POWER IS LOST THEN EMERGENCY LUMINAIRES ARE TO TURN ON AND GO TO FULL BRIGHTNESS.
- EXIT SIGNS TO BE UN-SWITCHED AND ON AT ALL TIMES.
- COORDINATE CONTROL FUNCTION, TIMING, AND LIGHT LEVELS WITH OWNER PRIOR TO COMMISSIONING.
- LIGHT LEVELS AND TIMINGS ARE TO COMPLY WITH LOCAL JURISDICTION ENERGY CODES.
- PROVIDE ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM AS LISTED ABOVE.
- PROVIDE LOW VOLTAGE LIGHTING CONTROL, UNLESS OTHERWISE NOTED.
- LIGHTING SYSTEM TESTING: SCOPE OF WORK INCLUDES BOTH INITIAL PROGRAMMING OF DEVICES BASED ON THIS SCHEDULE AND/OR SPECIFICATIONS, TESTING OF CONTROLS, AND ADJUSTING OF PROGRAMMED SETPOINTS BASED ON OWNER FEEDBACK AT SUBSTANTIAL COMPLETION. FINAL CALIBRATION OF ALL SENSOR AND DIMMING SETTINGS TO OCCUR AFTER FURNITURE AND FINAL FINISHES HAVE BEEN INSTALLED.
- LIGHTING CONTROLS TO COMPLY WITH OESCS 2021 - ASHRAE 2019.



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**1 SITE PLAN - ELECTRICAL**  
 0' 4' 8' 16'  
 1/16" = 1'-0"

**SHEET KEYNOTES**

1. LOCATION OF NEW BUILDING MOUNTED UTILITY METER BASE AND INCOMING SERVICE DISCONNECT. SEE SHEET E3.1 AND SINGLE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. CITY OF BANDON ELECTRICAL DEPARTMENT TO SET NEW PADMOUNTED UTILITY TRANSFORMER AT LOCATION OF EXISTING PULLBOX.
3. EXISTING UTILITY POLE AND ASSOCIATED TRANSFORMER (ALONG WITH EXISTING OVERHEAD PRIMARY FEEDER) TO BE REMOVED BY CITY OF BANDON ELECTRICAL DEPARTMENT.
4. PROVIDE NEW 3"C. FROM EXISTING CITY OF BANDON ELECTRICAL DEPARTMENT PULLBOX NEAR INTERSECTION OF OREGON AVENUE AND 4TH STREET. PROVIDE TRENCHING AND SAWCUTTING OF PARKING LOT AS REQUIRED.
5. EXISTING SITE LIGHTING POLE TO BE RELOCATED TO THE NORTHEAST. (2) EXISTING AREA LUMINAIRES AND BULLHORN SUPPORT TO BE REMOVED FROM TOP OF POLE FOR REPLACEMENT WITH SINGLE, NEW AREA LUMINAIRE.
6. NEW LOCATION OF EXISTING SITE LIGHTING POLE. PROVIDE NEW CAST-IN-PLACE REINFORCED CONCRETE BASE. CONTRACTOR TO PROVIDE POLE BASE DESIGN, STAMPED AND SIGNED BY STRUCTURAL PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL.
7. INTERCEPT AND EXTEND EXISTING SITE LIGHTING CIRCUIT TO NEW POLE LOCATION AND NEW ASSOCIATED AREA LUMINAIRE.
8. EXISTING SITE LIGHTING POLE TO REMAIN. (3) EXISTING AREA LUMINAIRES AND BULLHORN SUPPORT TO BE REMOVED FROM TOP OF POLE FOR REPLACEMENT WITH SINGLE, NEW AREA LUMINAIRE.
9. NEW UNDERGROUND PRIMARY ELECTRICAL SERVICE TO BE EXTENDED FROM EXISTING POWER PULLBOX W00496.
10. PROVIDE NEW 2" BELOW GRADE TELECOM SERVICE CONDUIT (IN SHARED TRENCH, WITH MINIMUM 12" SPACING FROM POWER UTILITY CONDUIT) FROM EXISTING PROVIDER FACILITY TO EXISTING PEDESTAL ON SITE.
11. PROVIDE NEW 2"C. BELOW GRADE FROM TELECOM UTILITY PEDESTAL TO NEW WALL-MOUNTED RACK LOCATION IN BUILDING.



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PROJECT 2023-1150  
 CONTACT Jeffrey Gianville  
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EXPIRES: 06/30/24

PROJECT NO.: 23-75  
**HOLY TRINITY CATHOLIC CHURCH**  
 355 OREGON AVE., SE  
 BANDON, OREGON 97411

100% CD

REVISIONS:		
#	DATE	DESCRIPTION

DATE: JUNE 28, 2024

SHEET TITLE:  
**SITE PLAN - ELECTRICAL**

**E1.1**

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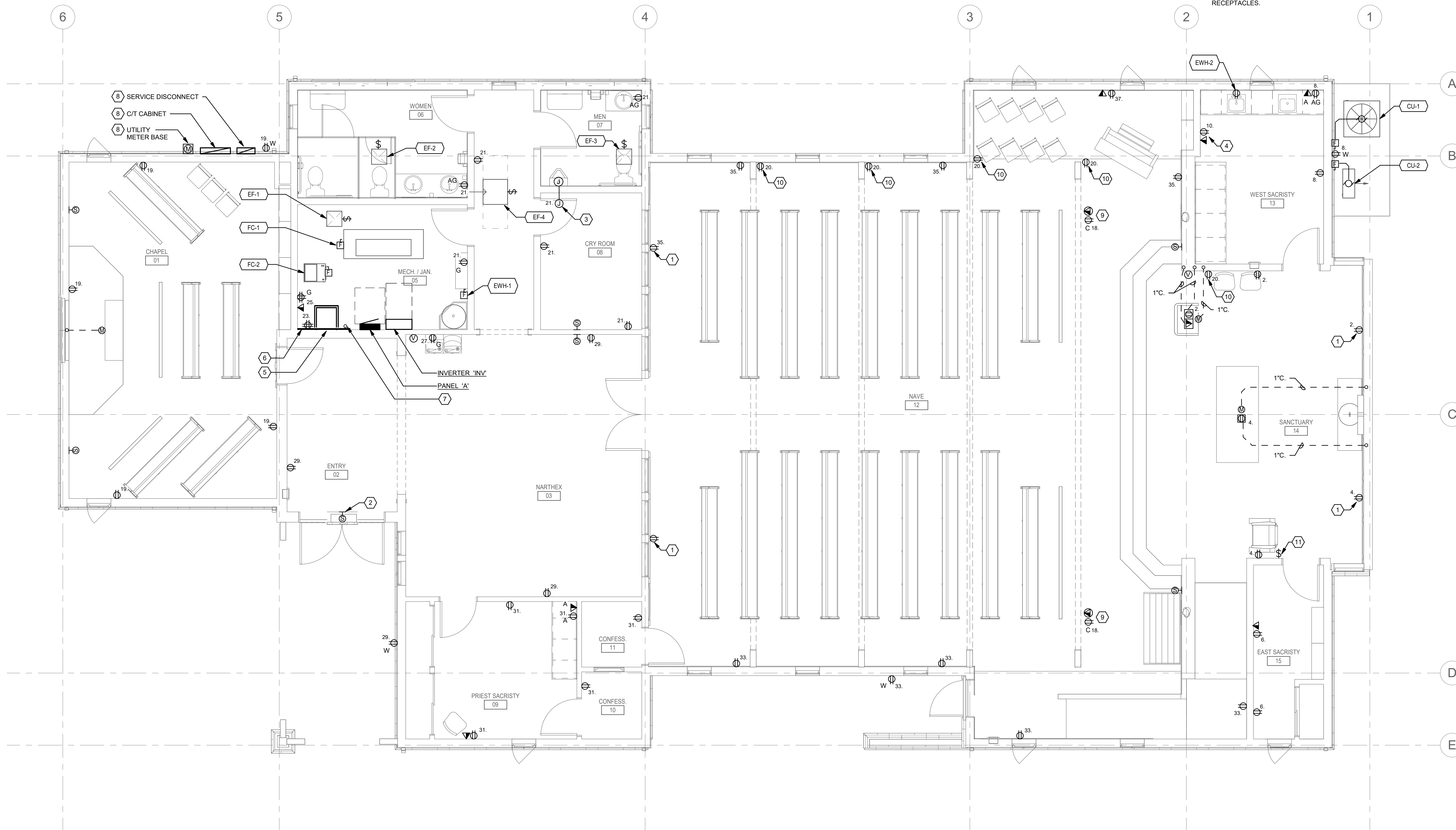


## GENERAL SHEET NOTES

- A. ALL EXTERIOR EQUIPMENT TO BE STAINLESS STEEL, NEMA 4X RATED.
- B. AV SYSTEM DESIGN TO BE PERFORMED BY SMEED COMMUNICATION SERVICES. LOCATIONS OF DEVICES SHOWN FOR COORDINATION AND RACEWAY ONLY. CONFIRM FINAL LOCATIONS WITH VENDOR PRIOR TO ROUGH-IN.
- C. PROVIDE PLASTIC BUSHINGS ON ALL LOW VOLTAGE CONDUITS.

## SHEET KEYNOTES

1. RECEPTACLE INSTALLED IN WOOD PANELING TO HAVE BROWN FINISH WITH BRONZE FACEPLATE.
2. BELL SPEAKER TO BE MOUNTED IN STEEPLE AT 28'-0" AFF. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. PROVIDE 120V CONNECTION TO LOW VOLTAGE TRANSFORMER FOR URINAL FLUSHOMETER. TO BE LOCATED ABOVE ACCESSIBLE CEILING. COORDINATE LOCATION WITH DIVISION 22 AND PROVIDE ALL NECESSARY LOW VOLTAGE WIRING TO FLUSHOMETER.
4. PROVIDE POWER AND DATA DEVICES AS SHOWN FOR WALL MOUNTED SOUND SYSTEM RACK.
5. PROVIDE WALL-MOUNTED TELECOM CABINET. BASIS OF DESIGN: CHATSWORTH CUBE-IT. 36" TALL BY 24" WIDE BY 24" DEEP WITH 19U USABLE INTERIOR SPACE.
6. PROVIDE 3/4" THICK, 48" WIDE BY 96" HIGH, A/C GRADE OR BETTER VOID-FREE, FIRE-TREATED HIGHBOARD WITH 'A' SIDE EXPOSED AND FIRE RATING STAMP VISIBLE. MOUNT 8" AFF. PRAINT WHITE, WITH TWO COATS OF FIRE RETARDANT PAINT.
7. 2"C. FOR INCOMING SERVICE PROVIDER. SEE SITE PLAN FOR ADDITIONAL INFORMATION.
8. COORDINATE MOUNTING OF EQUIPMENT AND RACEWAY AT EXTERIOR WALL WITH ARCHITECT TO ACCOUNT FOR LOW STONE VENEER.
9. MOUNT DATA AND POWER RECEPTACLES FLUSH WITH CEILING FOR PROJECTOR. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
10. MOUNT RECEPTACLE AT 14'-6" AFF AT TRUSS FOR HOLIDAY LIGHTS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. RECEPTACLES TO BE CONTROLLED VIA SWITCH AT SANCTUARY.
11. PROVIDE SWITCH CONTROL FOR TRUSS HOLIDAY LIGHTING RECEPTACLES.



### 1 FIRST FLOOR PLAN - POWER & SIGNAL

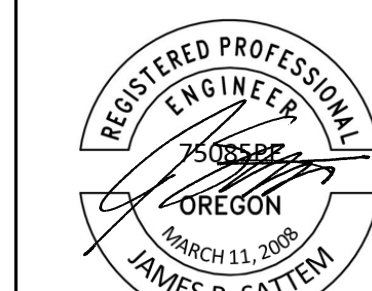
0' 4' 8' 16'  
1/4" = 1'-0"

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EXPIRES: 06/30/24

PROJECT NO.: 23.75  
HOLY TRINITY CATHOLIC CHURCH  
355 OREGON AVE., SE  
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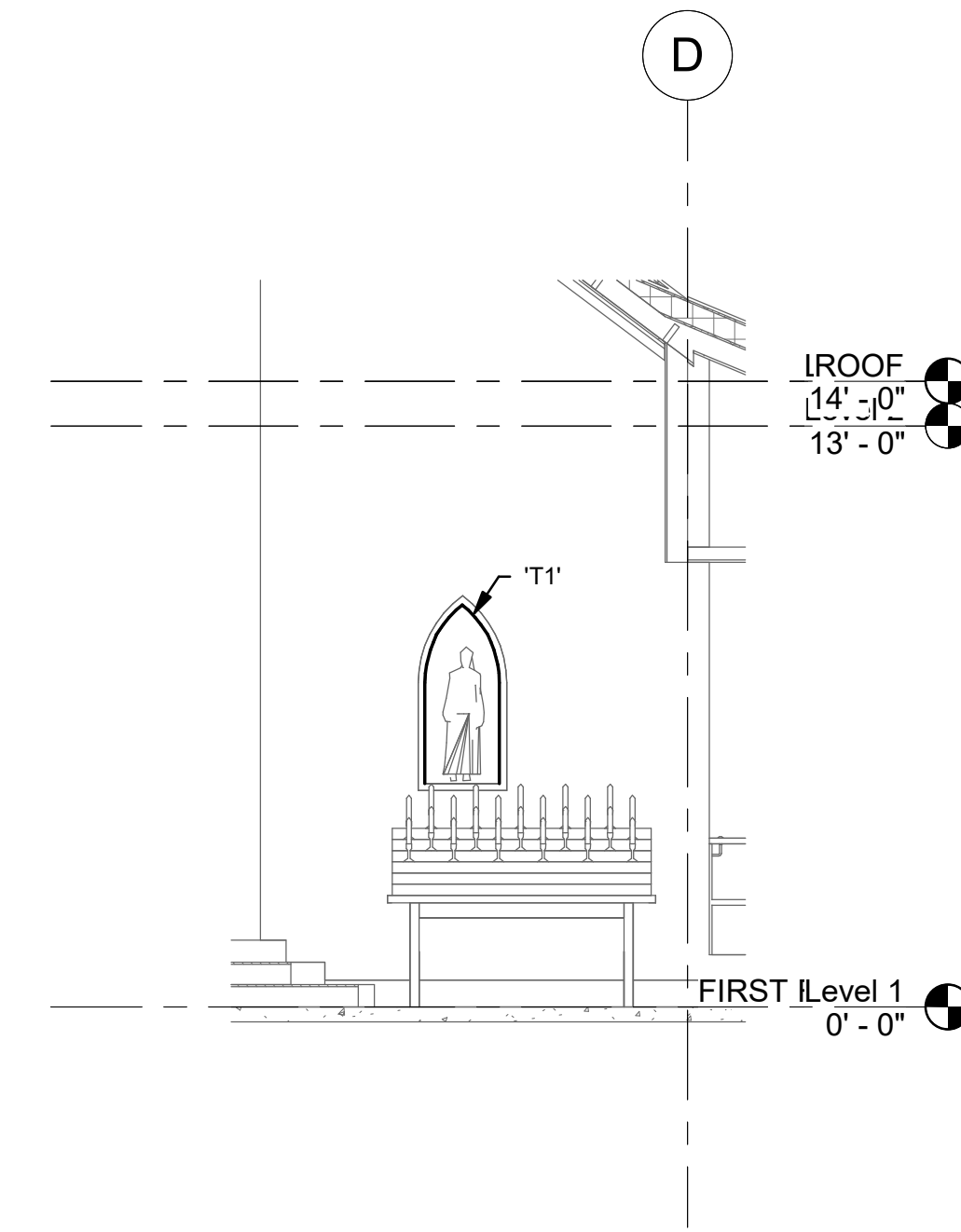
DATE: JUNE 28, 2024

SHEET TITLE:  
FIRST FLOOR PLAN -  
POWER & SIGNAL

E3.1

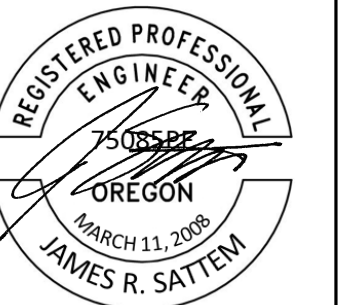
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**1 TYPICAL NICHE TAPE LIGHTING**

0' 4' 8' 16'  
1/4" = 1'-0"



EXPIRES: 06/30/24

PROJECT NO.: 23-75

**HOLY TRINITY CATHOLIC CHURCH**

355 OREGON AVE. SE  
BANDON, OREGON 97411

**100% CD**

REVISIONS:  
# DATE DESCRIPTION

DATE: JUNE 28, 2024

SHEET TITLE:  
**ENLARGED PLANS  
AND SECTIONS -  
ELECTRICAL**

**E4.1**



# SHEET KEYNOTES

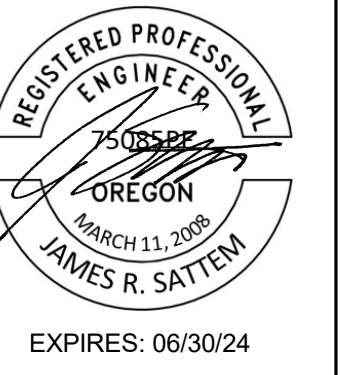
- CURRENT TRANSFORMER/TERMINAL CABINET PER POWER COMPANY REQUIREMENTS
- PROVIDE 750VA EMERGENCY LIGHTING INVERTER, 120V INPUT / 120V OUTPUT, WITH (4) DISTRIBUTION BREAKERS, BASIS OF DESIGN: MYERS ILLUMINATOR EM.

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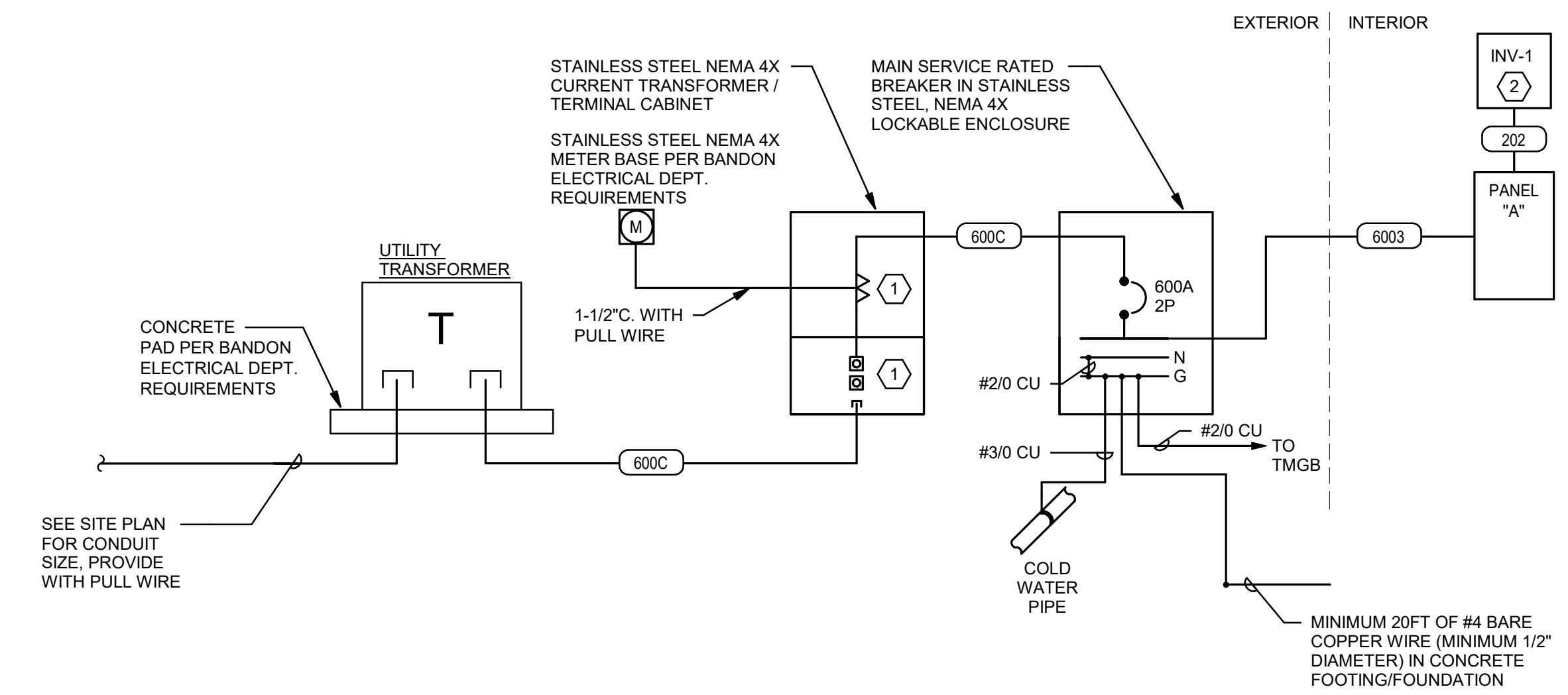
**INTERFACE**  
ENGINEERING

PROJECT: 2023-1150  
CONTACT: Jeffrey Gianville  
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## FEEDER SCHEDULE

A,C,S,X	A=Aluminum C=Conduit only S=Service secondary X=Separately derived system
600C	TWO 3" DIAMETER EMPTY CONDUIT WITH PULL CORD
6003	2 SETS OF (3 -350 kcmil CU, 1 #1 CU GND., IN 2 1/2" C.)



## 1 SINGLE-LINE DIAGRAM - ELECTRICAL

NO SCALE

PROJECT NO.: 23.75  
**HOLY TRINITY CATHOLIC CHURCH**

355 OREGON AVE., SE  
BANDON, OREGON 97411

100% CD

REVISIONS:  
# DATE DESCRIPTION

DATE: JUNE 28, 2024

SHEET TITLE:  
**SINGLE LINE  
DIAGRAM -  
ELECTRICAL**

**E5.1**

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## Incoming Electrical Service Division of Responsibility

	Contractor	Utility	Contacts:
Primary Conduit	X		<b>Power Utility:</b> Jim Wickstrom City of Bandon P.O. Box 67 Bandon, OR 97411 Phone: (541) 347-2437 x 233 Email: electric@cityofbandon.org
Primary Conductors		X	
Trenching and Backfill	X		
Transformer		X	
Transformer Pad / Vault	X		
Bollards	X		
Transformer Connections		X	
Secondary Conduit	X		
Secondary Conductors		X	
C/T Enclosure	X		
C/T's		X	
Meter Base	X		
Meter		X	
Electric Room Door Lock Box (obtain from power company)	X		
Reported Fault Current at Transformer		X	
<b>Notes:</b>			
1. Contact and coordinate all requirements and responsibilities with serving utility companies prior to submitting bid.			
2. All service installation work shall be in strict compliance with the requirements of the serving utilities.			
Disclaimer: Interface Engineering, Inc. has contacted the utilities but has not received in writing the final requirements from the power utility. These drawings indicate our best estimation of their requirements. Prior to bid, contact the utility and obtain in writing their requirements.			

## MECHANICAL EQUIPMENT CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	VOLTS	PH	LOAD (VA)	HP	MCA	MOCP	CIRCUIT NUMBER	WIRE / CONDUIT	NOTES
CU-1	CONDENSING UNIT	EXTERIOR	240	1	23520.0			175	A-39.41	1502	
CU-2	CONDENSING UNIT	EXTERIOR	240	1	3600.0			20	A-11.13	202	
EF-1	EXHAUST FAN	MECH ROOM	120	1	96.0	1/12		15	A-7	202	
EF-2	EXHAUST FAN	WOMEN'S RESTROOM	120	1	96.0	1/12		15	A-7	202	
EF-3	EXHAUST FAN	MEN'S RESTROOM	120	1	96.0	1/12		15	A-7	202	
EF-4	EXHAUST FAN	SERVICE HALL	120	1	1800.0	1		30	A-9	202	
EW-1	ELECTRIC WATER HEATER	MECH ROOM	240	1	5040.0			30	A-1.3	302	
EW-2	ELECTRIC WATER HEATER	WEST SACRISTY	120	1	1440.0			20	A-5	502	
FC-1	FAN COIL	MECH ROOM	240	1	38640.0			200	A-40.42	1502	
FC-2	FAN COIL	MECH ROOM	240	1	8400.0			45	A-15.17	402	
<b>GENERAL MECHANICAL EQUIPMENT CONNECTION NOTE:</b>											
A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.											
B. MOCP = MAXIMUM OVER CURRENT PROTECTION. MCA = MINIMUM CIRCUIT AMPACITY											
C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.											
<b>MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES</b>											
1 XX											
2 XX											
<b>WIRE/CONDUIT SCHEDULE</b>											
202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.											
302 2 #10 CU, 1 #10 CU GND., IN 3/4" C.											
402 2 #8 CU, 1 #10 CU GND., IN 3/4" C.											
502 2 #6 CU, 1 #10 CU GND., IN 3/4" C.											
1502 2 #10 CU, 1 #6 CU GND., IN 1-1/2" C.											

### Battery Inverter: INV

Location: MECH / JAN 05 Supply From: A	Service: 120 V, 1 PH, 2 WIRE	A.I.C. Rating: 0 A Rating: 1000 KVA			
<b>CKT</b>	<b>Circuit Description</b>	<b>Type</b>	<b>C.B. A/Pole</b>	<b>Note</b>	<b>Load</b>
1	L - EGRESS	L	20 A/1		575.0
2	SPARE BREAKER	--	20 A/1		0.0
3	SPARE BREAKER	--	20 A/1		0.0
4	SPARE BREAKER	--	20 A/1		0.0
<b>Panel Connected Load:</b>					575.0
<b>Amps</b>					5 A
<b>Total Demand Load:</b>					718.8
<b>Notes:</b>					

### PANELBOARD: A

MAIN LUG ONLY BUS AMPACITY: 600 A EQUIPMENT RATING: 120/240 V, 1PH, 3 WIRE FOR AIC RATING SEE ONE-LINE DIAGRAM										MOUNTING: SURFACE ENCLOSURE: TYPE 1 LOCATION: SUPPLIED FROM:										Accessories:									
Load (VA)																													
CKT	Description/Location	Type	C.B.	Pole	Note	A	B	A	B	Note	Pole	C.B.	Type	Description/Location	CKT														
1	EW-1	H	30 A	2		2,520		540			1	20 A	R	R - SANCTUARY, PULPIT	2														
3							2,520		540		1	20 A	R	R - SANCTUARY, ALTAR	4														
5	EW-2	H	20 A	1		1,440		360			1	20 A	R	R - EAST SACRISTY	6														
7	EF-1, EF-2, EF-3	Motor	15 A	1		288			540		1	20 A	R	R - WEST SACRISTY	8														
9	EF-4	Motor	30 A	1		1,800		180			1	20 A	R	R - SPEAKER HEAD END	10														
11	CU-2	Motor	20 A	2		1,800			575		1	20 A	Spare...	BATTERY INVERTER 'INV'	12														
13						1,800			797		1	20 A	L	L - SOUTH	14														
15	FC-2	H	45 A	2		4,200			1,245		1	20 A	L	L - NORTH	16														
17						4,200		360			1	20 A	R	R - CEILING PROJECTORS	18														
19	R - CHAPEL	R	20 A	1			900		900		1	20 A	R	R - TRUSS LIGHTING	20														
21	R - RESTROOMS, MECH, CRY	R...	20 A	1		1,080		0			1	20 A	--	SPARE BREAKER	22														
23	R - IT RACK	R	20 A	1			360		0		1	20 A	--	SPARE BREAKER	24														
25	R - MECH RM	R	20 A	1			360		0		1	20 A	--	SPARE BREAKER	26														
27	R - DRINKING FOUNTAIN	R	20 A	1			180		0		1	20 A	--	SPARE BREAKER	28														
29	R - ENTRY, NARTHEX	R	20 A	1			720		0		1	20 A	--	SPARE BREAKER	30														
31	R - SACRISTY, CONFESS	R	20 A	1			900		--		1	--	--	BUSSED SPACE	32														
33	R - NAVE EAST	R	20 A	1			1,080		--		1	--	--	BUSSED SPACE	34														
35	R - NAVE WEST	R	20 A	1			720		--		1	--	--	BUSSED SPACE	36														
37	R - CHOIR	R	20 A	1			180		--		1	--	--	BUSSED SPACE	38														
39	CU-1	Motor	175 A	2		11,760			19,320		2	175 A	H	FC-1	40														
41						11,760			19,320		--	--	--	--	42														
Total Connected load Ph. A						404 A	Panel...						95.2 kVA	396.9 A															
Total Connected load Ph. B						390 A	Total Demand...						101.8 kVA	424.1 A															
Total Connected load Ph. C						0 A																							
<b>Notes:</b>																													
<b>Load Type Definitions:</b>																													
Motor (125% largest Motor + 100% remaining motors)										K = Kitchen (Demand as per NEC Table...)										C = Continuous Load (125%) X = X-Rays (Demand per NEC 660.6)									
R = Receptacles (to 10kVA/100%, over 10 kVA 50%)										G = General Load (Non-continuous) (100%)										L = Lighting (125%) H = Heating (100%)									
E = Existing Load 30-day metered (125%)										EL = Elevator (Demand as per NEC Table...)										W = Water Heater (125%) EV = Electric Vehicle Charger									
Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals																									
H	53520.0	100.00%	53520.0																										
L	2617.4	125.00%	3271.7																										
Motor	29208.0	120.13%	35088.0																										
R	9900.0	100.00%	9900.0																										
Power	0.0	0.00%	0.0																										
				<b>Total Connected Load:</b> 95245.4 VA																									
				<b>Total NEC Demand:</b> 101779.7 VA																									
				<b>Total Connected Current:</b> 396.9 A																									
				<b>Total NEC Demand Current:</b> 424.1 A																									