

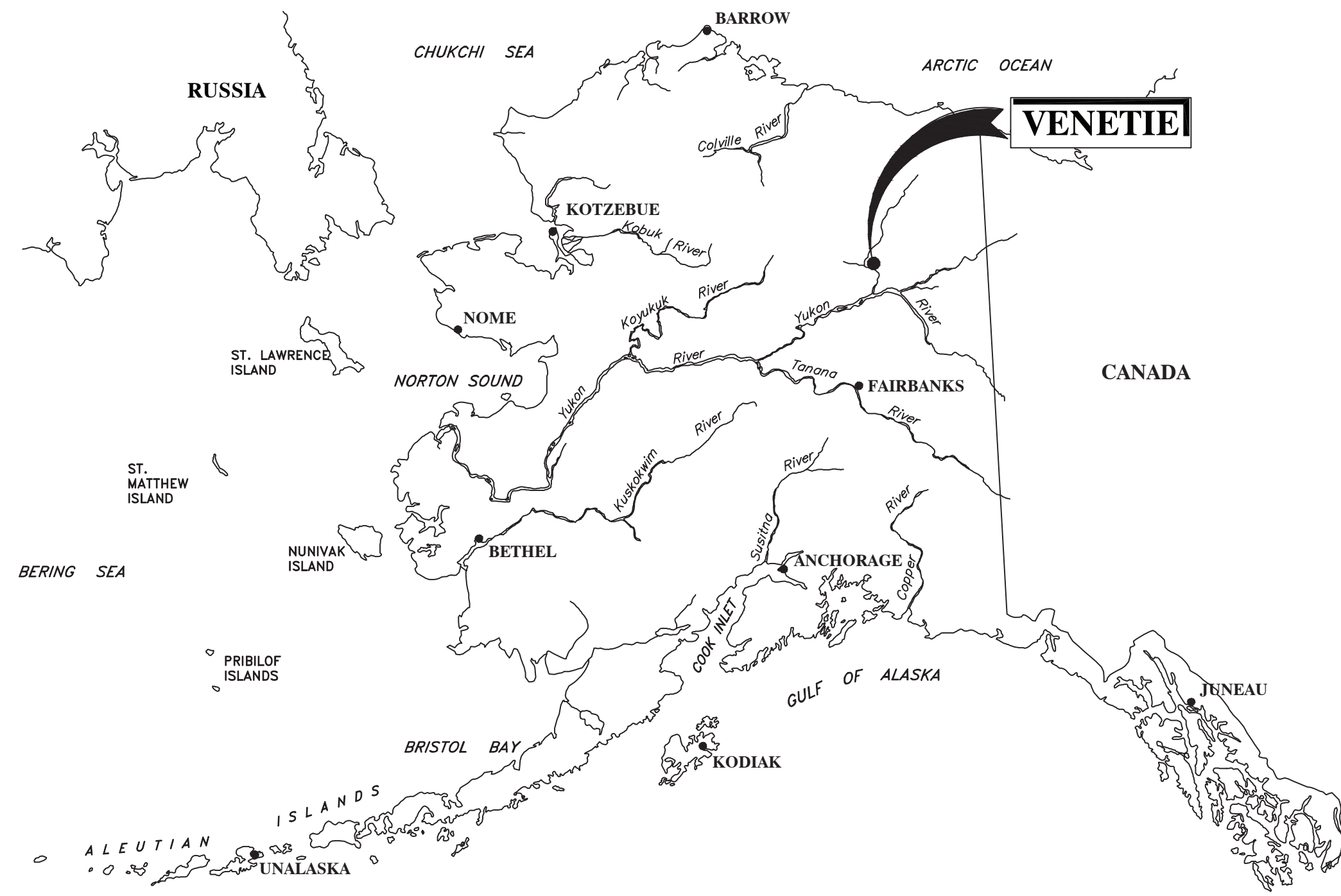
ALASKA ENERGY AUTHORITY

813 West Northern Lights Blvd.
Anchorage, Alaska 99503

VENETIE, ALASKA

POWER SYSTEM UPGRADE

ISSUED FOR CONSTRUCTION NOVEMBER 2021



Project Number (Consultant)	<u>30416.00(AEA)</u>
AEA Project Manager	<u>WILLIAM PRICE, PE</u>
Construction Manager	_____
Final Design (Date)	_____
Fire Marshal Approval (Date)	_____
Construction Period (From) (To)	_____
As-Builts (Date)	_____



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PROJECT NO.	30416.00
CITY GRID	-
WATER GRID	-
SEWER GRID	-

PROJECT NO. -

VENETIE, ALASKA

POWER SYSTEM UPGRADE

SCHEDULE OF DRAWINGS

STATUS: ISSUED FOR CONSTRUCTION

DATE: NOV 2021

REV	DATE	DESCRIPTION	BY
0	11/1/21	ISSUED FOR CONSTRUCTION	KRH

SCALE: -

HOR. VER. -

DESIGNED BY: -

DRAWN BY: -

CHECKED BY: -

APPROVED BY: -

SHEET NO. **G2**

File: \\10-share01\Users\BFLU\BPSJ\Project\001_CADD_2019\01_Working_Sat\02_Survey\03_Survey_Control\30416.00_SURVEY_CONTROL_PLATE_HOLDER.dwg PLOT DATE: 11/2/2021 3:30 PM



- LEGEND**
- CONTROL POINT #
 - TEMPORARY BENCH MARK
 - BRASS CAP MONUMENT
 - 5/8" Rebar
 - AL Cap

Source: Esri,
DigitalGlobe, GeoEye, Earthstar

3 SURVEY CONTROL

SCALE: GRAPHIC

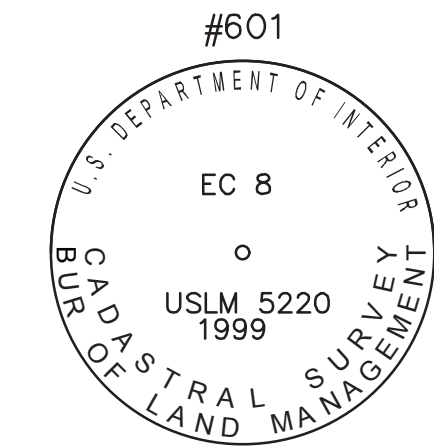
HORIZONTAL & VERTICAL CONTROL STATEMENT

CRW ESTABLISHED THE BASIS OF COORDINATES BY STATIC GPS AND PROCESSED ON NGS – ONLINE POSITION USER SERVICE (OPUS), FOR POINT #601, A 3 1/4" BRASS CAP ON A 2 1/2" STAINLESS STEEL PIPE, FLUSH WITH GROUND. PROCESSED OPUS VALUES OF LATITUDE 67° 00' 55.17644" N LONGITUDE 146° 25' 20.20364" W (NAD 83 (2011), NAVD88 GEOID 12B ELEVATION IS 594.69'.

PID	DESIGNATION	LATITUDE	LONGITUDE
DL7644	AB45 SAGRIVRDOT AK2007 CORS ARP	68° 45' 37.784" N	148° 52' 16.024" W
DR5991	TLK2 TFS_WELLHEAD GPS CORS ARP	68° 37' 40.935" N	149° 35' 43.401" W
DR4396	GCGO GILMORE CREEK GEO CORS ARP	64° 58' 41.015" N	147° 29' 57.841" W

CRW POINT #601 IS THE BASIS OF COORDINATES WITH STATE PLANE ZONE 3 COORDINATES OF NORTHING 4757420.01, EASTING 1580029.00, ELEVATION 594.69'.

COORDINATE SYSTEM:
 NAME: AK83-ZONE 3
 LINEAR UNIT: US SURVEY FEET
 GEODETIC DATUM: NAD83(2011)
 ELLIPSOID: GRS80
 PROJECTION: TRANSVERSE MERCATOR



BASIS OF VERTICAL DATUM: THE BASIS OF ELEVATION IS GEOID 12B (NAVD88) OPUS SOLUTION FOR POINT #601 DETERMINED TO BE 594.69 ELEVATION. CRW USED LEICA GS14 DUAL FREQUENCY GPS RECIEVERS TO DETERMINE ELEVATIONS ON CONTROL POINTS.

NOTES

- ALL COORDINATES AND DIMENSIONS SHOWN ARE IN U.S. SURVEY FEET.
- A FIELD SURVEY WAS CONDUCTED IN JUNE 2021.
- THE DEVELOPMENT OF THIS SURVEY CONTROL SHEET IS FOR THE NEW PROPOSED VENETIE ENERGY SYSTEM UPGRADE.
- THE SITE CONTROL SHOWN WAS ESTABLISHED DURING A JUNE SURVEY WITH METHODOLOGY DESCRIBED IN THE HORIZONTAL AND VERTICAL STATEMENT.
- CONTROL POINTS ARE SUBJECT TO SEASONAL DISTURBANCE, VERIFY HORIZONTAL COORDINATES AND VERTICAL ELEVATIONS BEFORE USE IN CONSTRUCTION TO BASIS OF COORDINATES.
- WHETHER LISTED OF NOT, ALL MONUMENTS OR PROPERTY MARKERS, CORNERS, OR ACCESSORIES, WHICH WILL BE DISTURBED OR BURIED, SHALL BE REFERENCED OR RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.0401).
- THE BACKGROUND INFORMATION SHOWN IS FOR ORIENTATION PURPOSES ONLY AND DOES NOT REPRESENT RIGHT-OF-WAY/BOUNDARY. SEE RECORDED PLATS, DEEDS & EASEMENTS FOR DETAILED PROPERTY INFORMATION.
- AERIAL IMAGE AND MAPPING SHOWN WHERE COLLECTED IN 2010, CONDITIONS AND IMPROVEMENTS MAY HAVE CHANGED.

Horizontal Control						
Point No	Northing	Easting	Description	LATITUDE	LONGITUDE	ELEVATION
601	4757420.01	1580029.00	3 1/4" BRASS CAP	N067° 00' 55.1764"	W146° 25' 20.2036"	594.69
602	4758932.25	1582826.61	2 1/2" ALCAP	N067° 01' 10.2391"	W146° 24' 10.0252"	603.13
603	4757145.58	1581166.55	5/8" REBAR	N067° 00' 52.5513"	W146° 24' 51.5218"	601.20

CRW ENGINEERING GROUP, LLC
 3940 ARCTIC BLVD., SUITE 300
 VENETIE, ALASKA 99858
 PHONE: (907) 582-3232
 #AEC182-AK

PROJECT NO. **30416.00**

CITY GRID

WATER GRID

SEWER GRID

VENETIE, ALASKA

POWER SYSTEM UPGRADE

SURVEY CONTROL

PROJECT NO. -

STATUS: ISSUED FOR CONSTRUCTION

DATE: NOV 2021

REV	DATE	DESCRIPTION	BY
0	11/1/2021	ISSUED FOR CONSTRUCTION	KRH

SCALE: -

DESIGNED BY: -

DRAWN BY: -

CHECKED BY: -

APPROVED BY: -

SHEET NO. **G3**



1 ————— VICINITY MAP



SCALE	REVISION	REV	DATE	DESCRIPTION	BY
HOR. —		0	9/29/21	95% DESIGN DRAWINGS	KRH
VER. —					
DESIGNED BY					
DRAWN BY					
CHECKED BY					
APPROVED BY					

PROJECT NO. —	PROJECT NO. 30416.00
CITY GRID	—
WATER GRID	—
SEWER GRID	—
VENETIE, ALASKA	
POWER SYSTEM UPGRADE	
VICINITY MAP	
STATUS: ISSUED FOR CONSTRUCTION	DATE: NOV 2021

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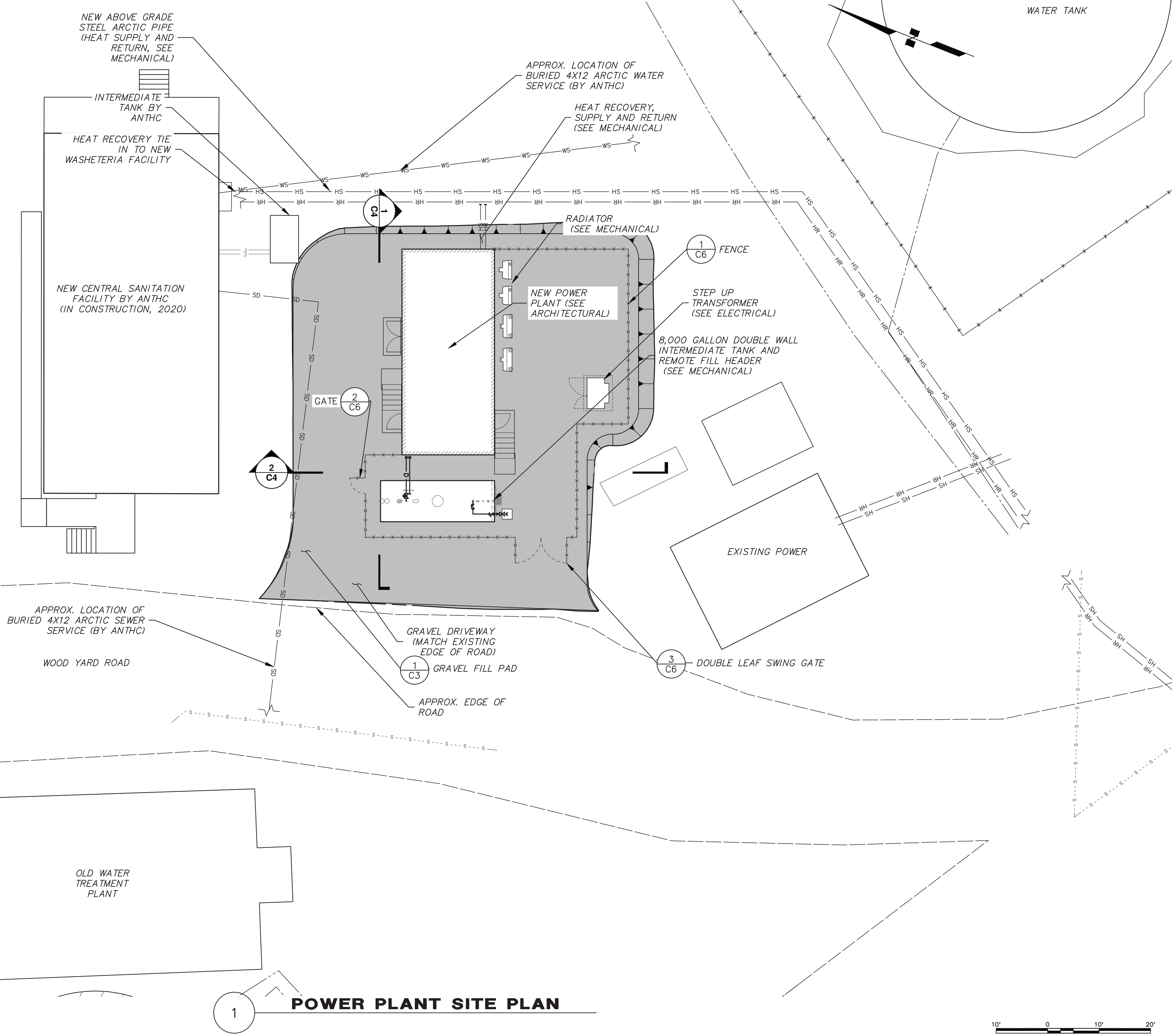
GENERAL NOTES:

1. SEE STRUCTURAL FOR FOUNDATION DETAILS.
2. SEE ARCHITECTURAL AND STRUCTURAL FOR POWER PLANT BUILDING CONSTRUCTION.

CODE NOTES:

THE INTERNATIONAL FIRE CODE AND STATE OF ALASKA REGULATIONS REQUIREMENT AND ADHERENCE:

1. 30' OF CLEARANCE FROM 751-12,000 GALLON BULK STORAGE TANKS TO THE NEAREST PROPERTY LINE WHICH IS OR CAN BE BUILT UPON. THE VILLAGE OWNS ALL OF THE LAND IN THE COMMUNITY AND THERE ARE NO ESTABLISHED PROPERTY BOUNDARIES IN THE VICINITY.
2. 10' MINIMUM CLEARANCE FROM THE NEW POWER PLANT TO THE NEAREST PROPERTY LINE WHICH IS OR CAN BE BUILT UPON. THE VILLAGE OWNS ALL OF THE LAND IN THE COMMUNITY AND THERE ARE NO ESTABLISHED PROPERTY BOUNDARIES IN THE VICINITY..
3. PROVIDE ACCESS TO WITHIN 150' OF EVERY PORTION OF THE FACILITY. THE EXISTING GRAVEL ROADS PROVIDE ACCESS TO WITHIN 50' OF ALL PORTIONS OF THE NEW POWER PLANT.



1 POWER PLANT SITE PLAN



PROJECT NO.	30416.00
CITY GRID	-
WATER GRID	-
SEWER GRID	-

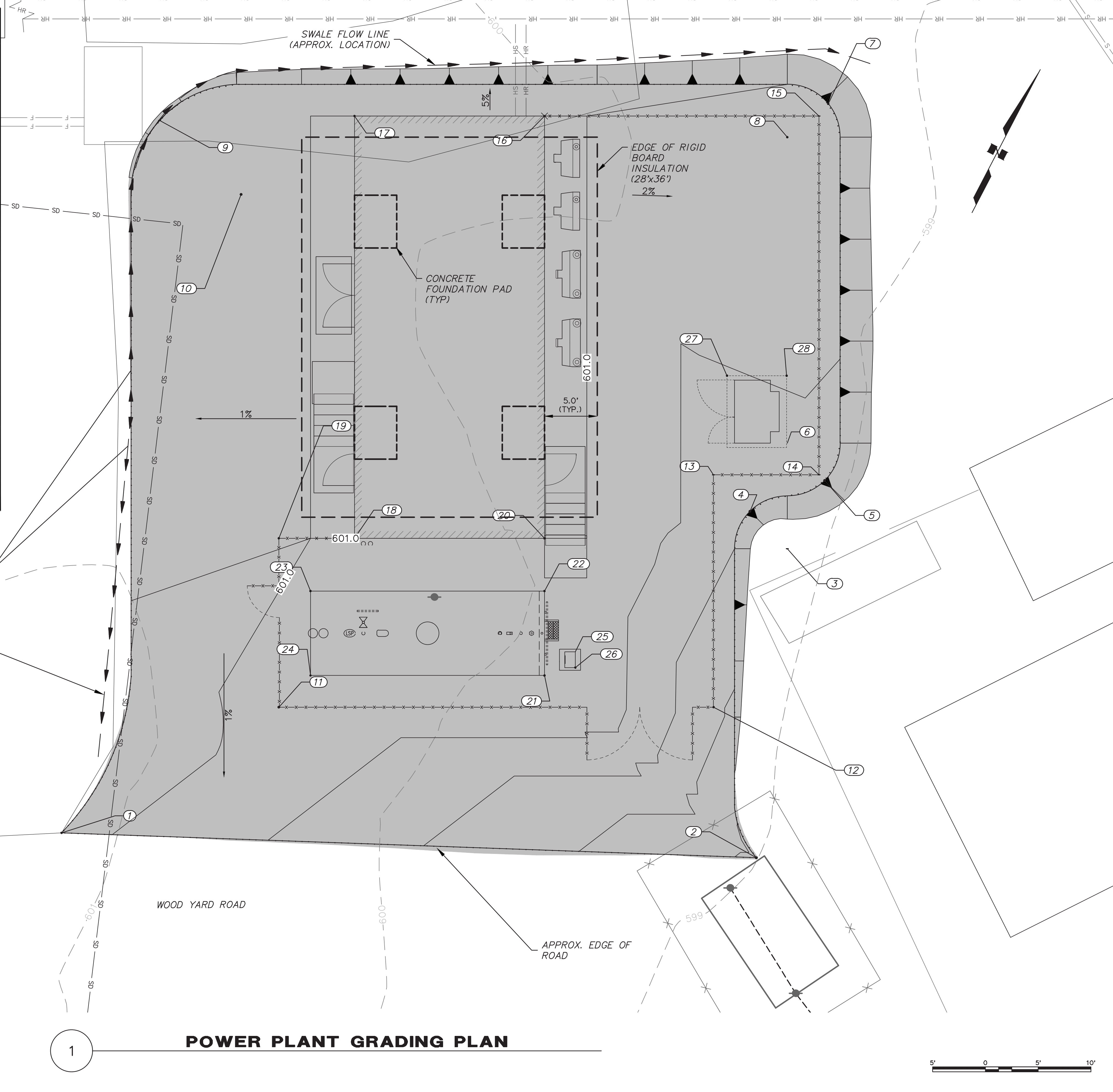
VENETIE, ALASKA
POWER SYSTEM UPGRADE
 POWER PLANT SITE PLAN
 PROJECT NO. -
 STATUS: ISSUED FOR CONSTRUCTION
 DATE: NOV 2021

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0	11/1/21	ISSUED FOR CONSTRUCTION	KRH

SCALE	-
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APPROVED BY	-

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GRADING POINT TABLE				
Point Number	EASTING	NORTHING	ELEVATION	POINT DESCRIPTION
1	1580747.7855'	4757190.7231'	601.163'	DRIVEWAY EDGE
2	1580772.4005'	4757129.6294'	598.930'	DRIVEWAY EDGE
3	1580800.3364'	4757138.8617'	0.000'	PAD CORNER,R = 5'
4	1580802.1288'	4757143.5293'	600.132'	PAD CORNER
5	1580807.6799'	4757138.2602'	600.335'	PAD CORNER
6	1580809.4723'	4757142.9278'	600.293'	PAD CORNER,R = 5'
7	1580840.4187'	4757152.4472'	600.828'	PAD CORNER
8	1580835.9558'	4757154.7148'	600.812'	PAD CORNER,R = 10'
9	1580813.2293'	4757209.6912'	600.491'	PAD CORNER
10	1580809.9547'	4757199.7787'	600.864'	PAD CORNER,R = 10'
11	1580767.0360'	4757176.7625'	600.867'	FENCE CORNER
12	1580783.7845'	4757139.1316'	599.514'	FENCE CORNER
13	1580803.8852'	4757148.1032'	600.307'	FENCE CORNER
14	1580807.9514'	4757138.9672'	600.341'	FENCE CORNER
15	1580839.0028'	4757152.7873'	600.826'	FENCE CORNER
16	1580828.4308'	4757176.5408'	601.000'	POWER PLANT CORNER
17	1580821.1117'	4757192.9856'	601.000'	POWER PLANT CORNER
18	1580784.5677'	4757176.7209'	600.929'	POWER PLANT CORNER
19	1580781.6536'	4757183.2684'	600.909'	FENCE CORNER
20	1580791.8868'	4757160.2762'	600.932'	POWER PLANT CORNER
21	1580780.0121'	4757154.9911'	600.900'	TANK CORNER
22	1580787.3190'	4757158.2432'	600.917'	TANK CORNER
23	1580778.3054'	4757178.4952'	600.914'	TANK CORNER
24	1580770.9985'	4757175.2431'	600.900'	TANK CORNER
25	1580783.2558'	4757153.2317'	600.905'	FILL HEADER
26	1580779.1442'	4757151.4017'	600.902'	FILL HEADER
27	1580812.9912'	4757150.7390'	600.438'	PAD CORNER
28	1580815.2861'	4757145.5827'	600.434'	PAD CORNER



1

POWER PLANT GRADING PLAN



PROJECT NO.	30416.00
CITY GRID	-
WATER GRID	-
SEWER GRID	-

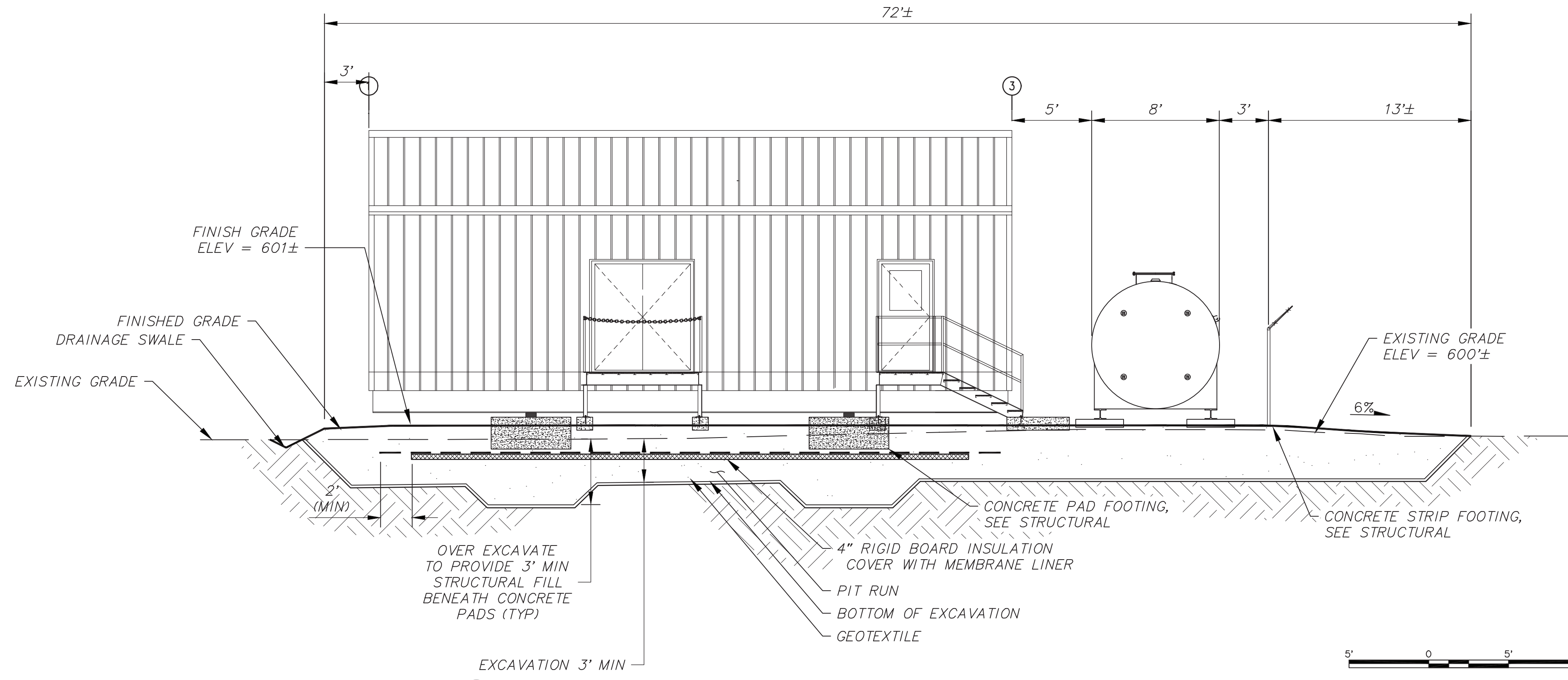
VENETIE, ALASKA
POWER SYSTEM UPGRADE
GRADING PLAN
PROJECT NO. -
STATUS: ISSUED FOR CONSTRUCTION
DATE: NOV 2021

REV	DATE	DESCRIPTION	BY
0	11/1/21	ISSUED FOR CONSTRUCTION	KRH

SCALE	-
HOR. VER.	-
DESIGNED BY	-
DRAWN BY	-
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APPROVED BY	-

SHEET NO. **03**

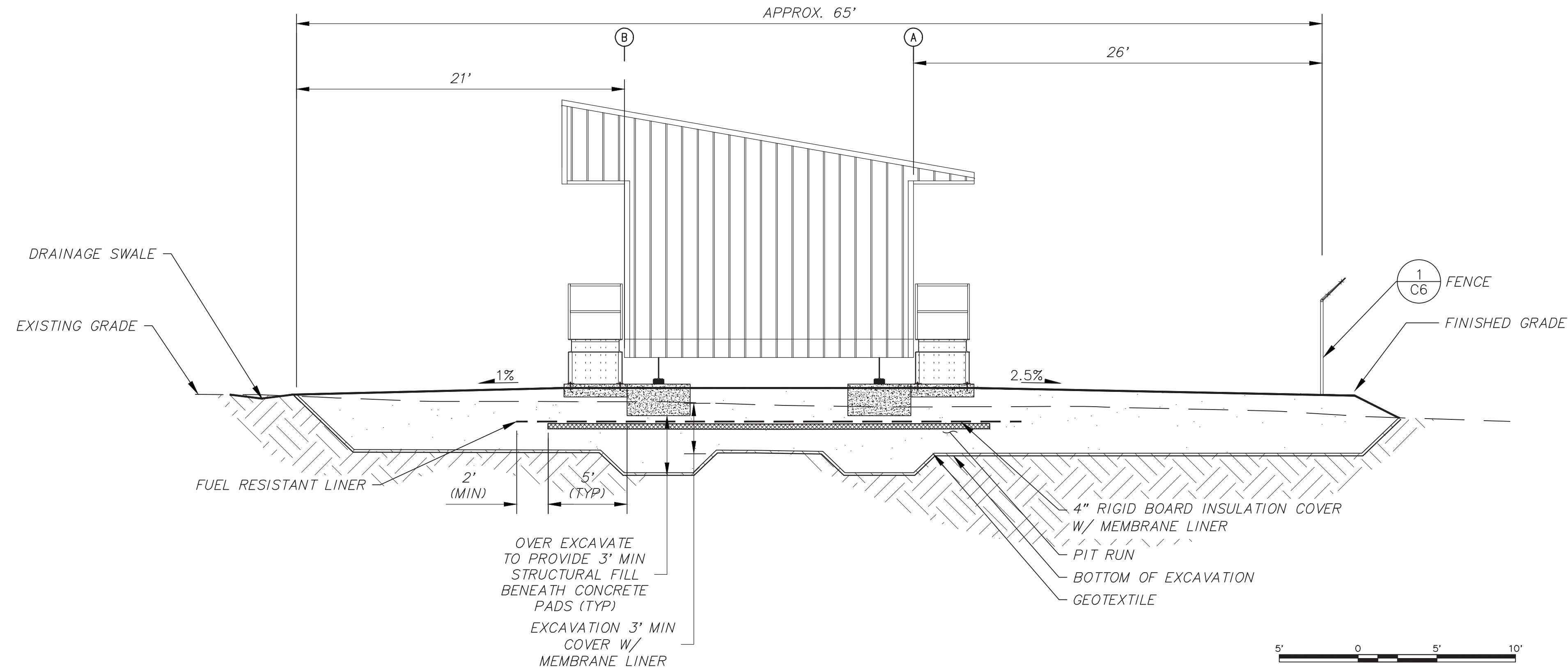
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1 **POWER PLANT PAD SECTION**

SEQUENCE OF CONSTRUCTION:

1. CLEAR AND GRUB EXISTING GROUND BENEATH PROPOSED FOUNDATION PAD FOOTPRINT. EXCAVATE A MINIMUM 3 FT TO EXPOSE IN-SITU UNDERNEATH SILTS (BOTTOM OF EXCAVATION ELEV = 597±) PERFORM ADDITIONAL EXCAVATION BENEATH CONCRETE PAD FOOTING AS SHOWN.
2. SCARIFY EXPOSED SILTS 8" DEEP THEN PROOF COMPACT TO 95% MAX DRY DENSITY.
3. INSTALL GEOTEXTILE FABRIC.
4. PLACE AND COMPACT CLASSIFIED FILL MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS.
5. INSTALL RIGID BOARD INSULATION AND FUEL RESISTANT LINER. COVER LINER WITH GEOTEXTILE. TOP OF LINER ELEV = 598.5'.
6. EXCAVATE CLASSIFIED FILL AND INSTALL CONCRETE FOOTERS AS SHOWN.



2 **POWER PLANT PAD SECTION**



PROJECT NO.	30416.00
CITY GRID	-
WATER GRID	-
SEWER GRID	-

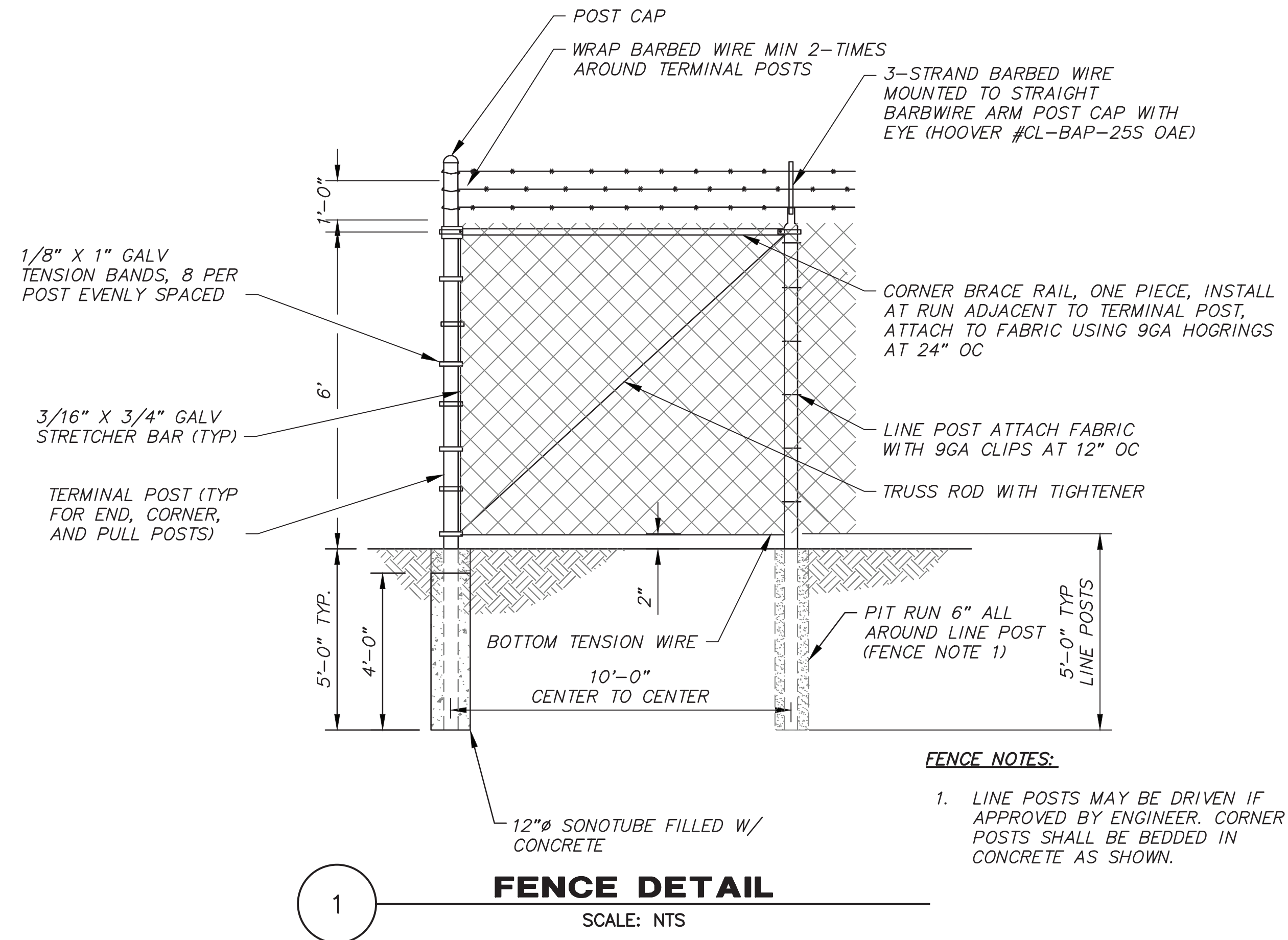
VENETIE, ALASKA
POWER SYSTEM UPGRADE
POWER PLANT SECTIONS

PROJECT NO. -
STATUS: ISSUED FOR CONSTRUCTION
DATE: NOV 2021

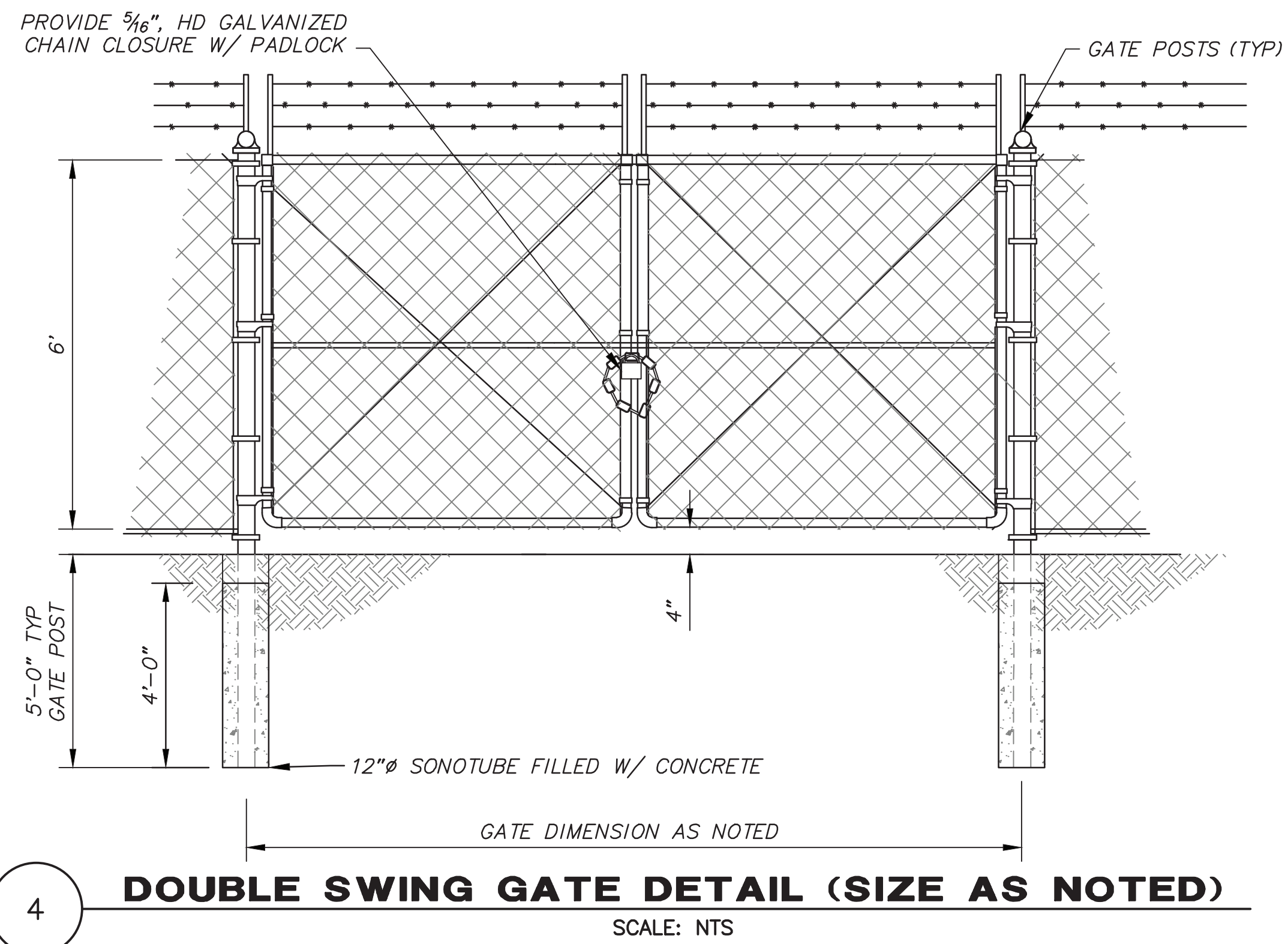
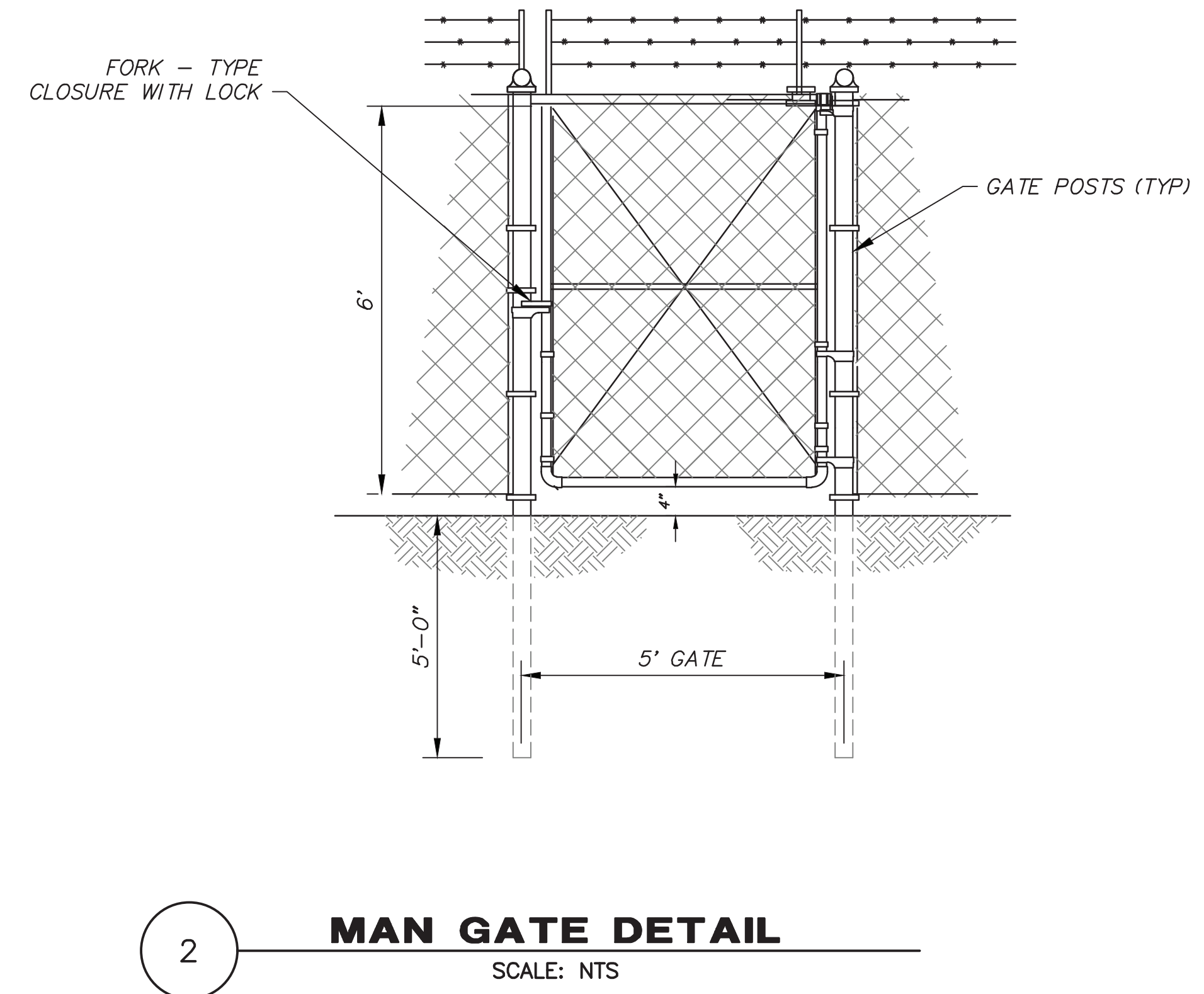
REV	DATE	DESCRIPTION
0	11/1/21	ISSUED FOR CONSTRUCTION

SCALE	1" = 10'
DESIGNED BY	KRH
DRAWN BY	
CHECKED BY	
APPROVED BY	

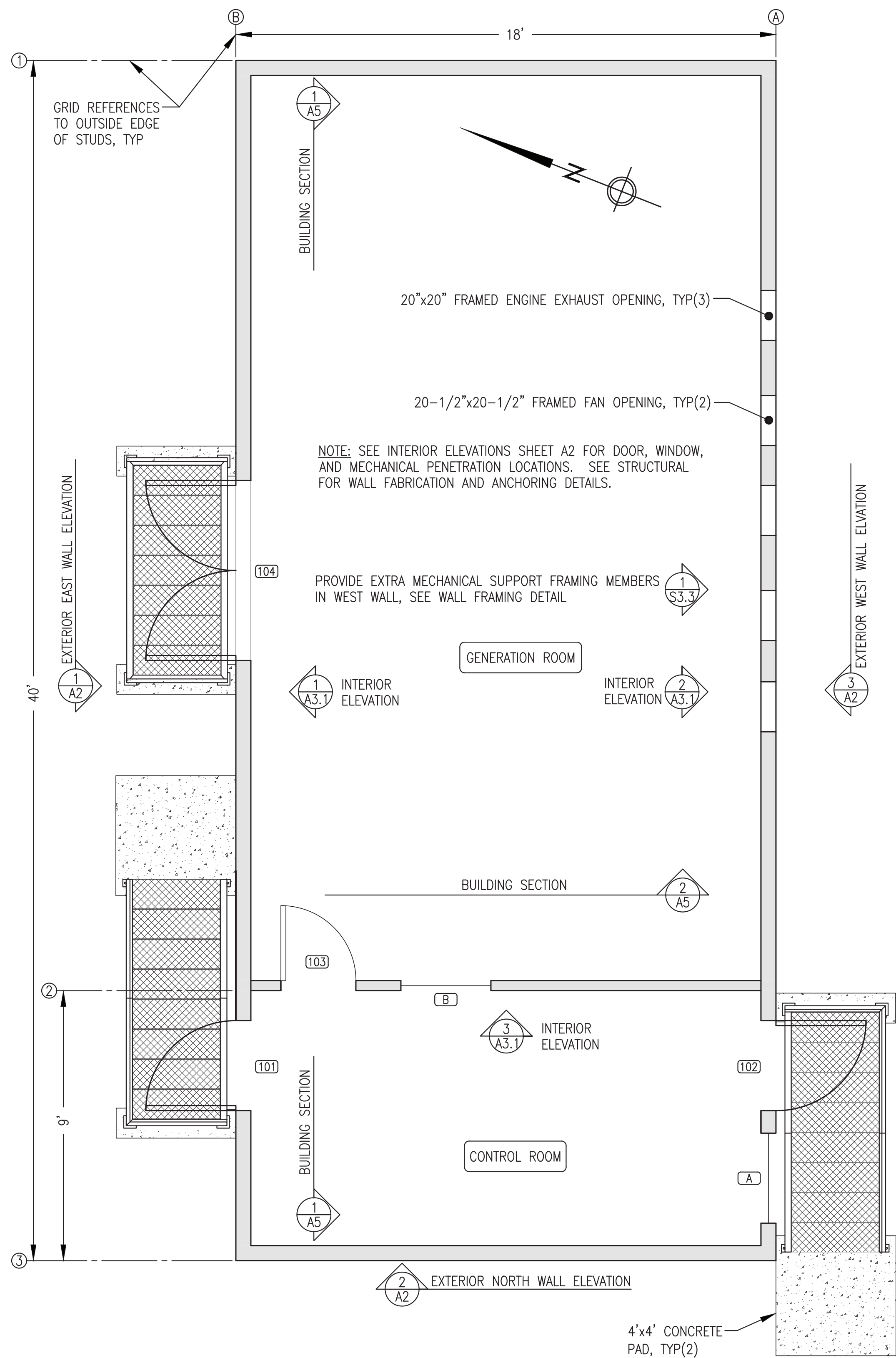
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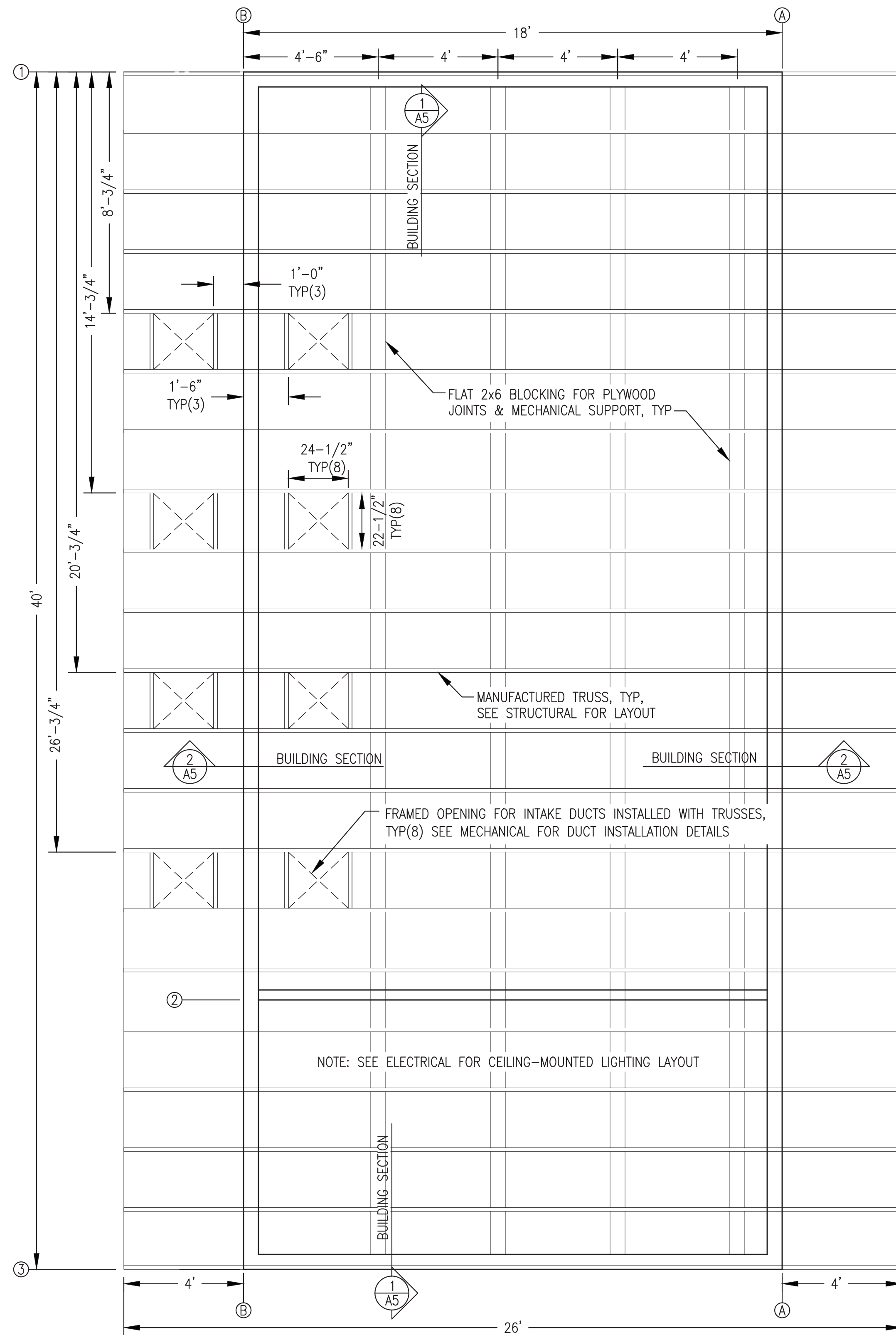
- FENCE NOTES:**
1. LINE POSTS MAY BE DRIVEN IF APPROVED BY ENGINEER. CORNER POSTS SHALL BE BEDDED IN CONCRETE AS SHOWN.



PROJECT NO.	30416.00
CITY GRID	-
WATER GRID	-
SEWER GRID	-
VENETIE, ALASKA	DATE: NOV 2021
POWER SYSTEM UPGRADE	
FENCE DETAILS	
PROJECT NO. -	STATUS: ISSUED FOR CONSTRUCTION
BY: KRH	REVISION
DATE: 9/29/21	DESCRIPTION
REV: 0	95% DESIGN DRAWINGS
SCALE: -	
HOR. VER. -	
DESIGNED BY: -	
DRAWN BY: -	
CHECKED BY: -	
APPROVED BY: -	
SHEET NO.	
C5	



1 BUILDING PLAN
3/8"=1'-0"





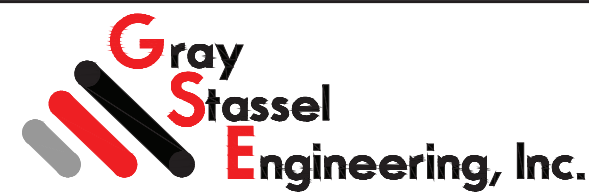
2 ROOF PLAN
3/8"=1'-0"

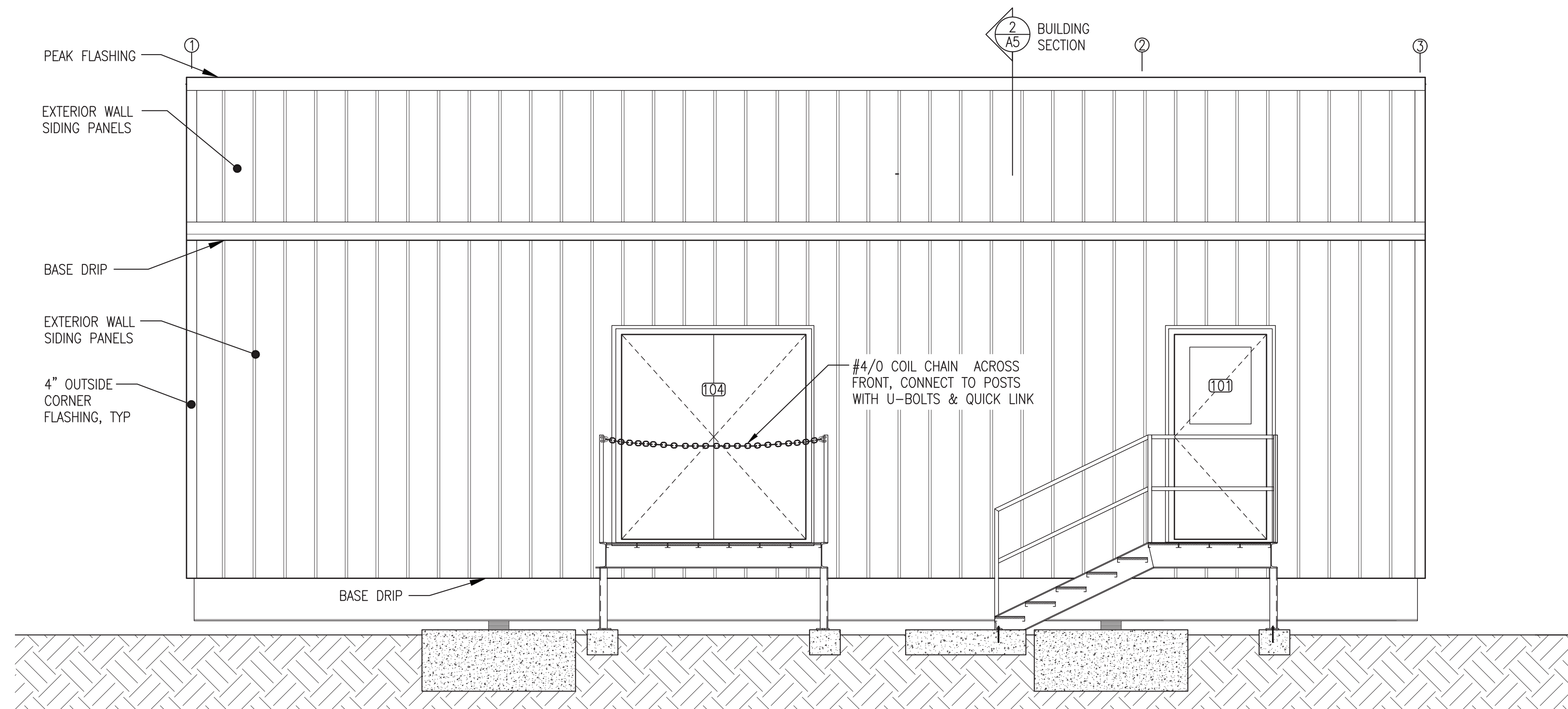
CODE ANALYSIS – 2012 EDITION INTERNATIONAL BUILDING CODE	
OCCUPANCY CLASSIFICATION	REF: IBC-2012, SEC. 306.2
GROUP F-1: FACTORY INDUSTRIAL MODERATE HAZARD – ELECTRIC GENERATION PLANT	
TYPE OF CONSTRUCTION	REF: IBC-2012, TABLE 601
TYPE V-B (NON-RATED)	REF: IBC-2012, SEC. 602.5
BUILDING HEIGHTS AND AREAS	REF: IBC-2012, TABLE 503
ALLOWED 40'-0" 1 STORY 8,500 S.F. PROVIDED: 16'-0" 1 STORY 720 S.F.	
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS	REF: IBC-2012, TABLE 601
STRUCTURAL FRAME: 0 HR BEARING WALLS: 0 HR INTERIOR PARTITIONS: 0 HR FLOOR: 0 HR ROOF: 0 HR	
FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS	REF: IBC-2012, TABLE 602
EXTERIOR WALLS 10' < X < 30' 0 HR	
FIRE PROTECTION SYSTEM	REF: IBC-2012, SEC. 903.2.4
FIRE PROTECTION NOT REQUIRED. WATER MIST FIRE SUPPRESSION SYSTEM PROVIDED (SEE MECHANICAL).	
OCCUPANT LOAD	REF: IBC-2012, TABLE 1004.1.2
MECHANICAL/STORAGE = 300 S.F./PERSON 720 S.F./300 S.F. PER OCCUPANT = 2 OCCUPANTS	
MEANS OF EGRESS – TRAVEL DISTANCE	REF: IBC-2012, TABLE 1016.2
REQUIRED = 200' PROVIDED = 45'	
COMBUSTIBLE LIQUIDS STORAGE	REF: IBC-2012, TABLE 307.1(1)(i) & IFC 2009 603.3.2
660 GAL CLASS II LIQUIDS 200 GAL CLASS II (DIESEL FUEL DAY TANK) 13200 GAL CLASS III LIQUIDS 110 GAL CLASS III (GLYCOL & LUBE OIL)	

- ARCHITECTURAL GENERAL NOTES:**
- 1) PROVIDE A COMPLETE AND OPERATIONAL FACILITY. ALL WORK TO BE IN ACCORDANCE WITH CURRENT APPROVED EDITIONS OF THE IBC, IMC, IFC, AND NEC INCLUDING STATE OF ALASKA AMENDMENTS.
 - 2) SEE CIVIL SITE PLAN FOR LOCATION AND LAYOUT. PROVIDE SEPARATION TO PROPERTY BOUNDARIES IN ACCORDANCE WITH CODE ANALYSIS.
 - 3) DIMENSIONS TO FACE OF STUD OR STRUCTURAL MEMBER UNLESS INDICATED OTHERWISE.
 - 4) FRAME EXTERIOR WALLS WITH 6" DIMENSIONAL LUMBER AND INTERIOR WALL WITH 4" DIMENSIONAL LUMBER WITH 5/8" CDX PLYWOOD BOTH SIDES. PROVIDE CONTINUOUS 2x BLOCKING ON PLYWOOD JOINTS AND AS INDICATED.
 - 5) FRAME OPENINGS, INSTALL AIR INTAKE DUCTS AND TRIM OUT AS INDICATED. SEE MECHANICAL FOR FLASHING & INSTALLATION DETAILS.
 - 6) ALL EXPOSED SURFACES TO BE PAINTED OR FACTORY FINISHED. CAULK ALL JOINTS AND PROVIDE FLASHING AS NEEDED TO PROVIDE COMPLETE WEATHER PROOF INSTALLATION.
 - 7) INSTALL LOW PROFILE 1/4" METAL SIDING OVER INTERIOR WALL SURFACES AND 5/8" METAL SIDING OVER INTERIOR CEILING SURFACES. SEE SHEETS A3.1 AND A6.
 - 8) INSTALL METAL SIDING OVER ALL EXTERIOR WALL SURFACES. SEE SHEETS A2 AND A6.
 - 9) INSTALL ICE AND WATER SHIELD OVER ROOF SHEATHING AND INSTALL NEW METAL ROOFING OVER ENTIRE ROOF. INSTALL PERFORATED SOFFIT OVER ROOF OVERHANGS. SEE SHEETS A5 AND A6.
 - 10) INSTALL DOORS AND WINDOWS AS INDICATED. SEE PLANS AND ELEVATIONS FOR LOCATIONS AND SEE SHEET A4 FOR DETAILS AND SPECIFICATIONS.

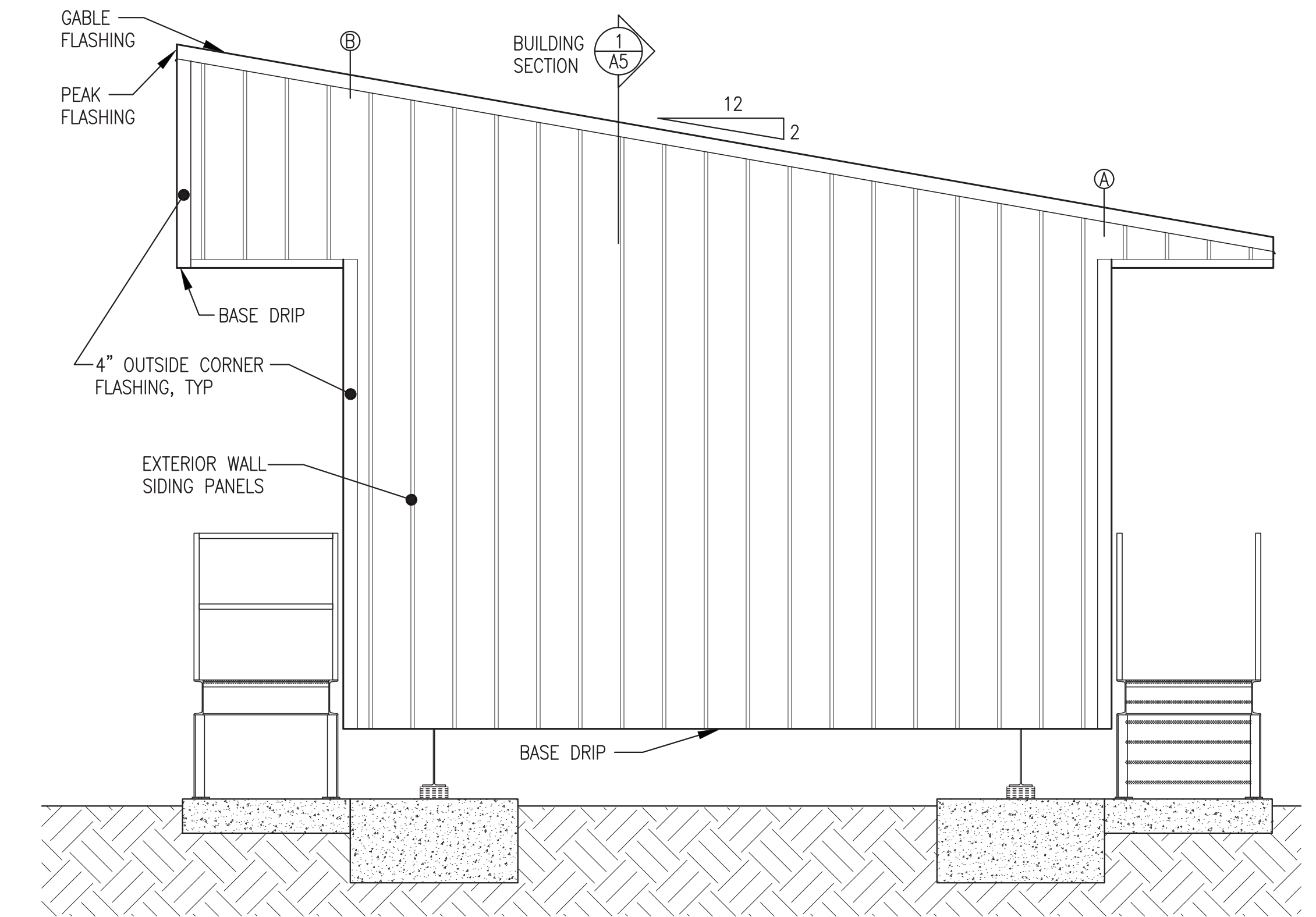
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2021



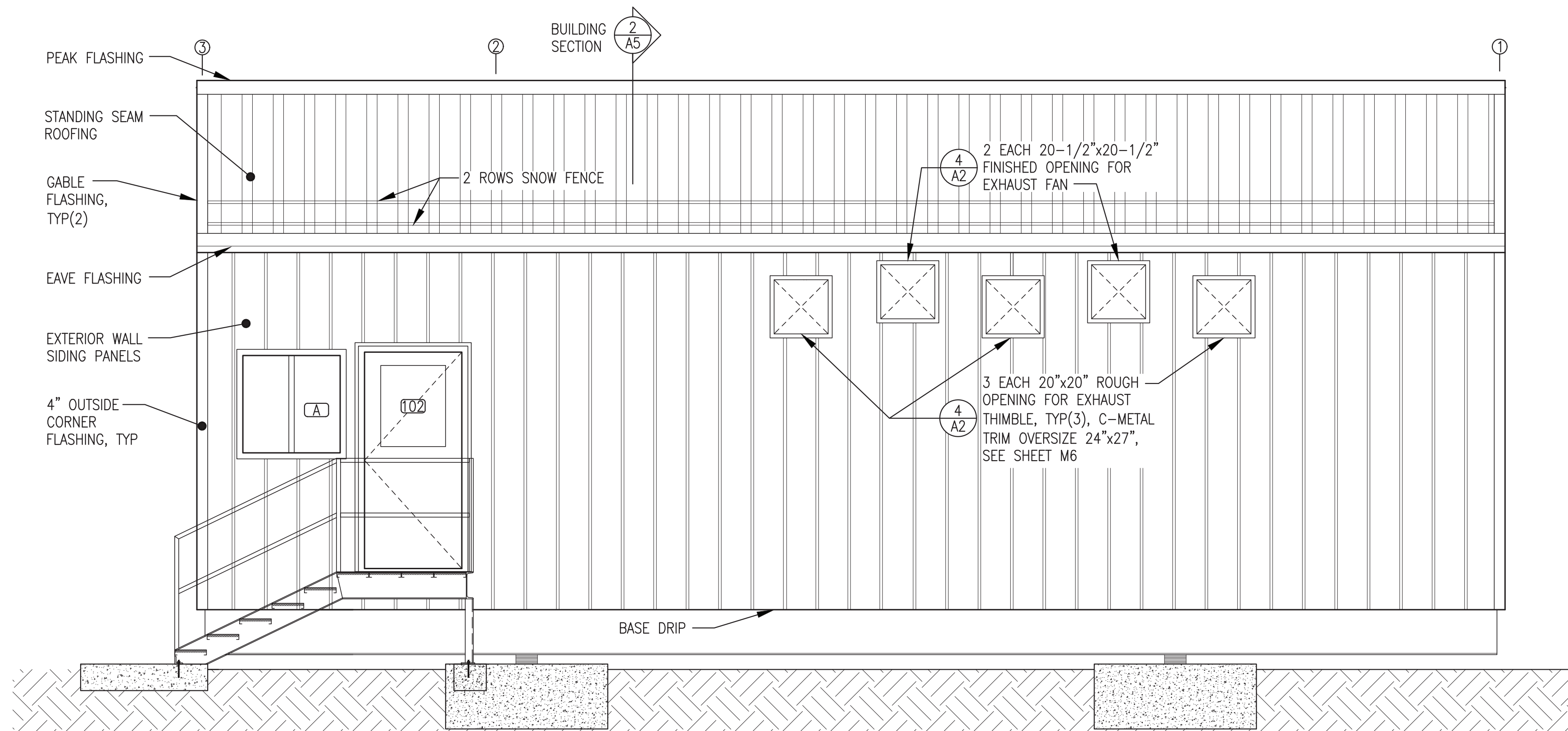
 	
PROJECT: VENETIE POWER SYSTEM UPGRADE	
TITLE: BUILDING PLANS & NOTES	
	DRAWN BY: JTD DESIGNED BY: DGT/BCC FILE NAME: VEN_PP_A&S PROJECT NUMBER:
P.O. 111405, Anchorage, AK 99511 (907)349-0100	SCALE: AS NOTED DATE: 11/1/21 SHEET: A1



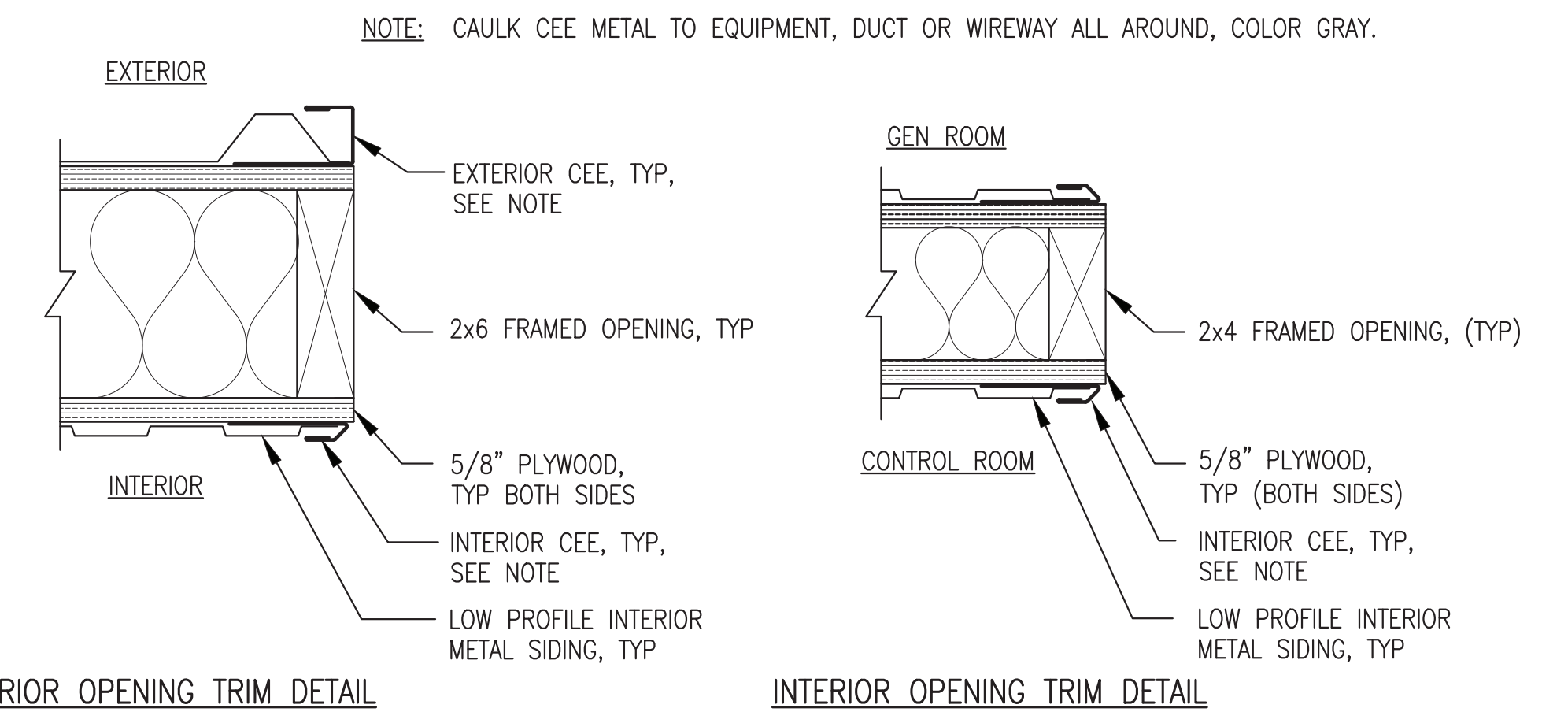
1 EXTERIOR FRONT (GRID B) WALL ELEVATION
A2 3/8"=1'-0"



2 EXTERIOR END WALL ELEVATION
A2 3/8"=1'-0"



3 EXTERIOR BACK (GRID A) WALL ELEVATION
A2 3/8"=1'-0"

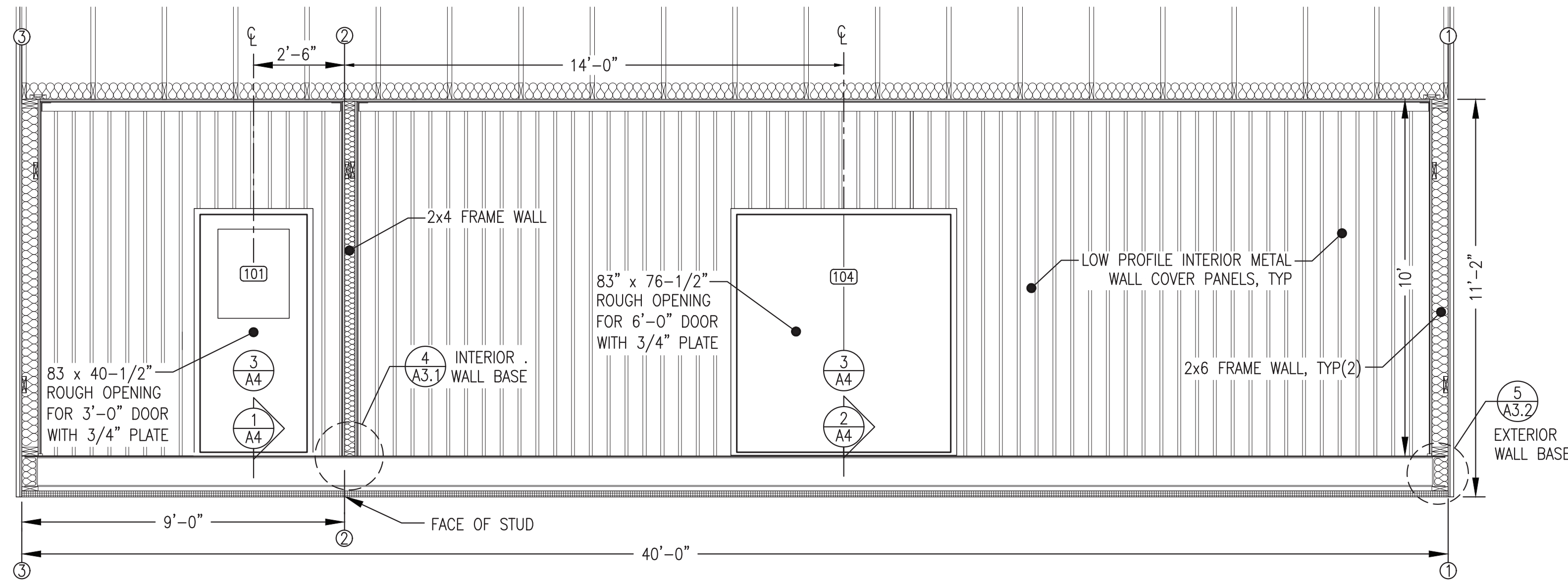


4 TYPICAL MECHANICAL/ELECTRICAL OPENING TRIM DETAIL
A2 NO SCALE

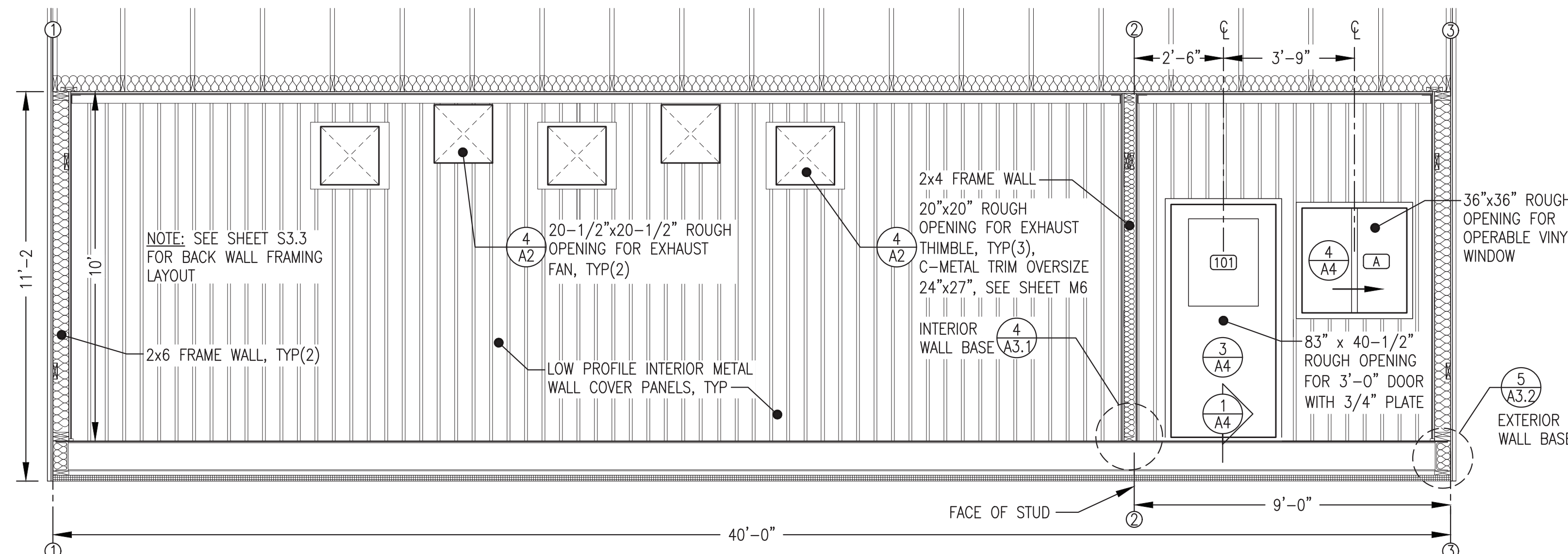
ISSUED FOR CONSTRUCTION
NOVEMBER 2021



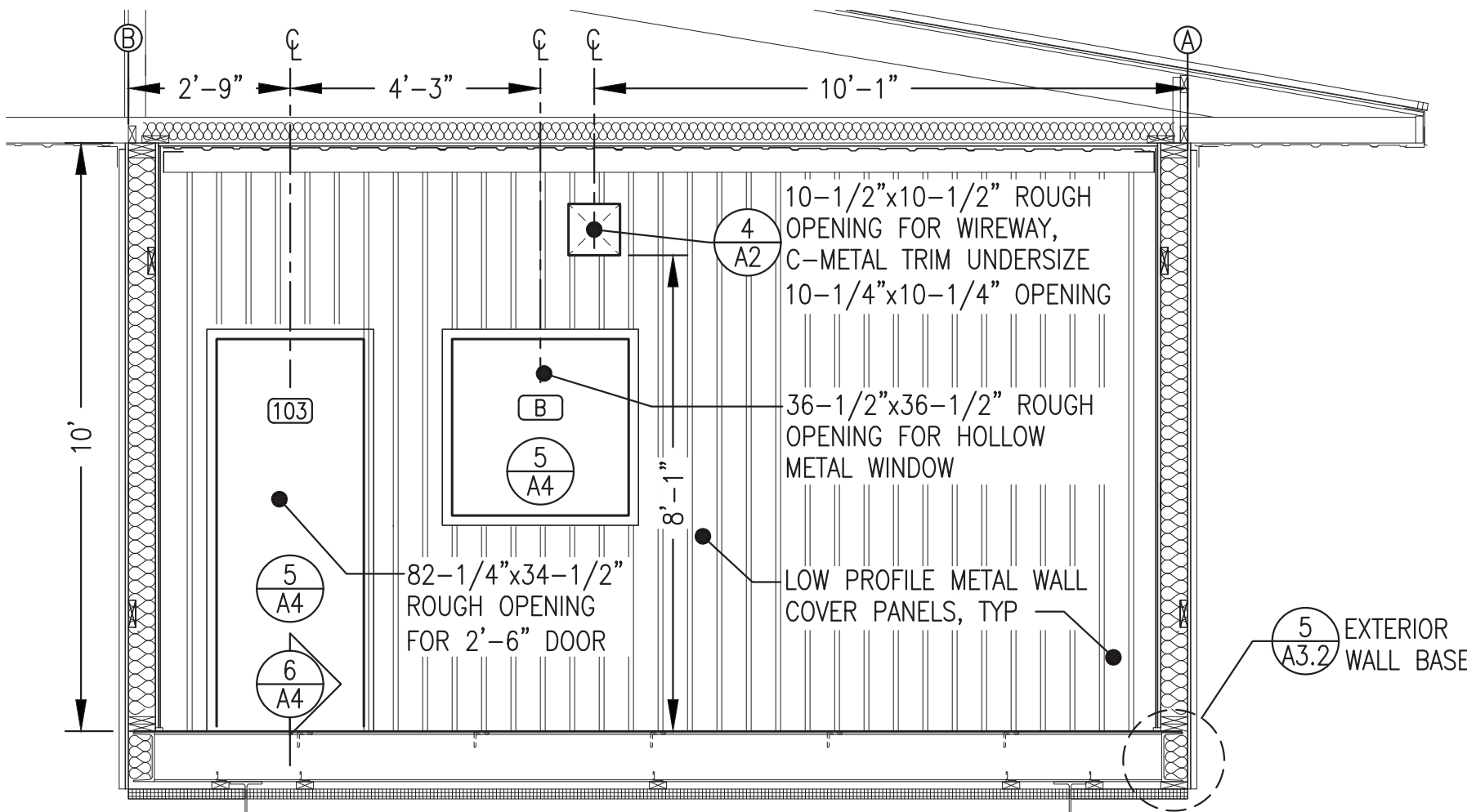
PROJECT:	VENETIE POWER SYSTEM UPGRADE	
TITLE:	EXTERIOR BUILDING ELEVATIONS	
DRAWN BY: JTD	DESIGNED BY: DGT/BCG	SCALE: AS NOTED
FILE NAME: VEN_PP_A&S	PROJECT NUMBER:	DATE: 11/1/21
P.O. 111405, Anchorage, AK 99511 (907)349-0100	Gray Stassel Engineering, Inc.	SHEET: A2



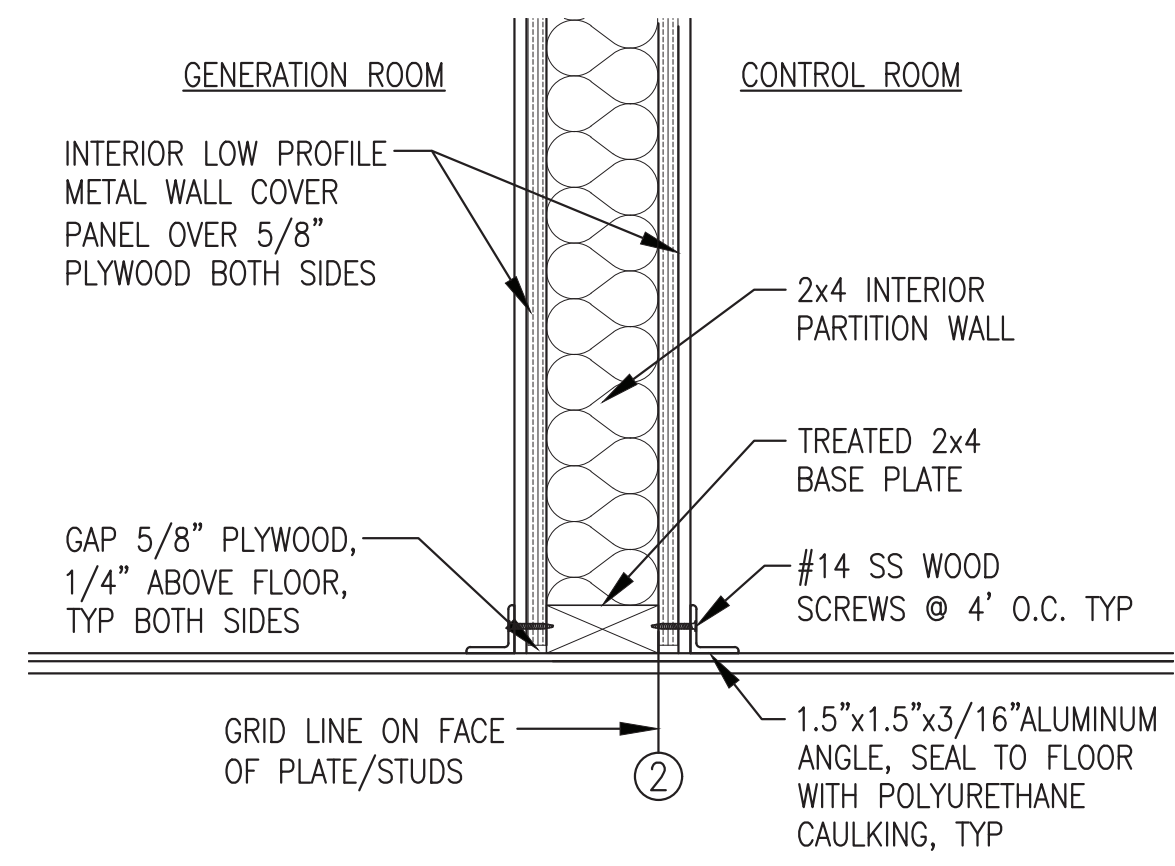
1 FRONT WALL INTERIOR ELEVATION
A3.1 3/8"=1'-0"



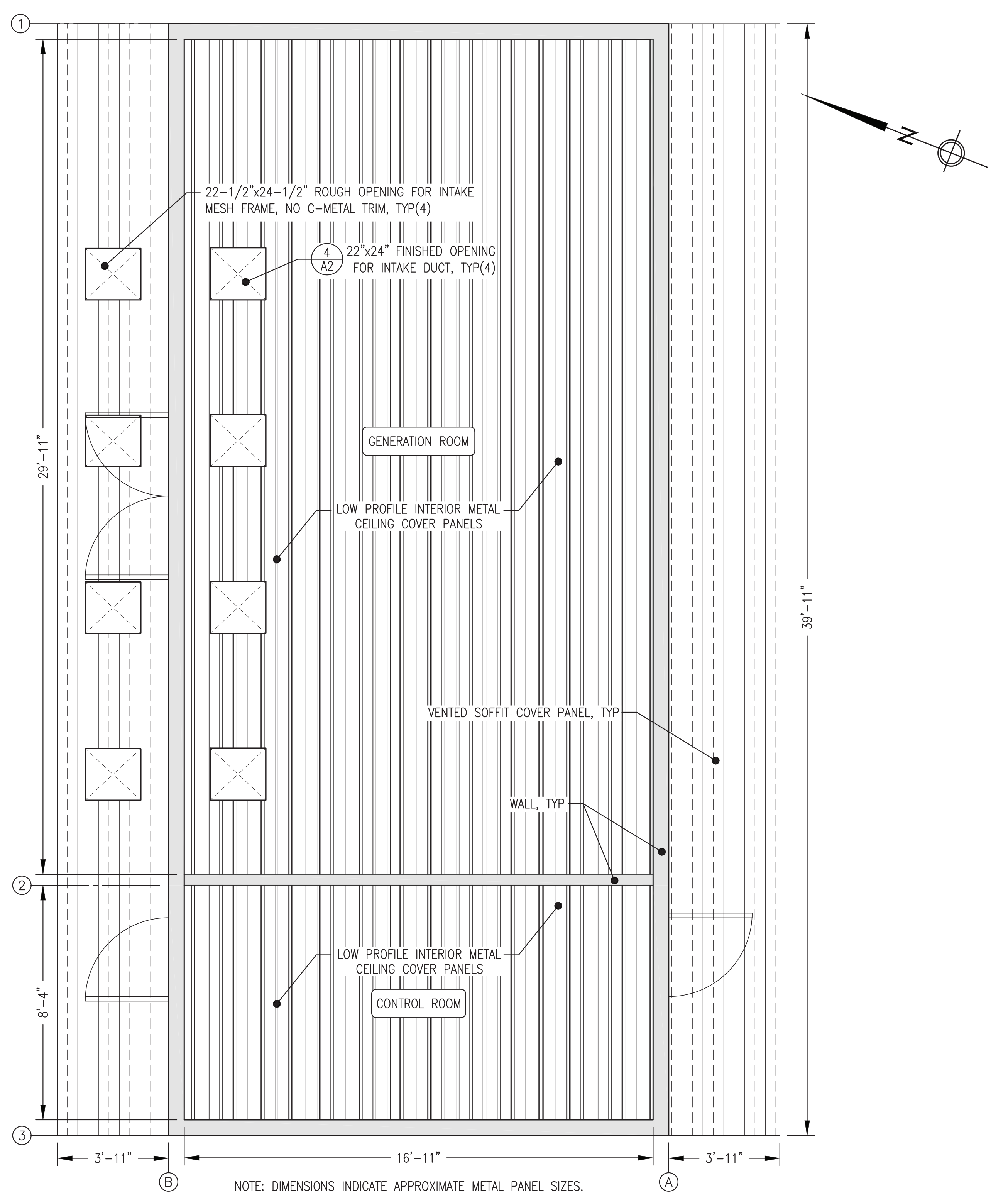
2 BACK WALL INTERIOR ELEVATION
A3.1 3/8"=1'-0"



3 INTERIOR PARTITION ELEVATION
A3.1 3/8"=1'-0"





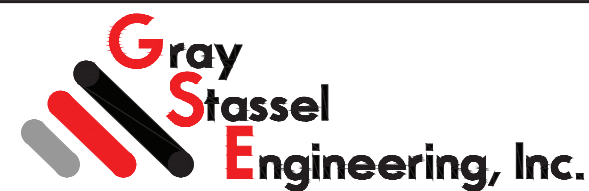
4 INTERIOR PARTITION WALL BASE
A3.1 1"=2'-0"

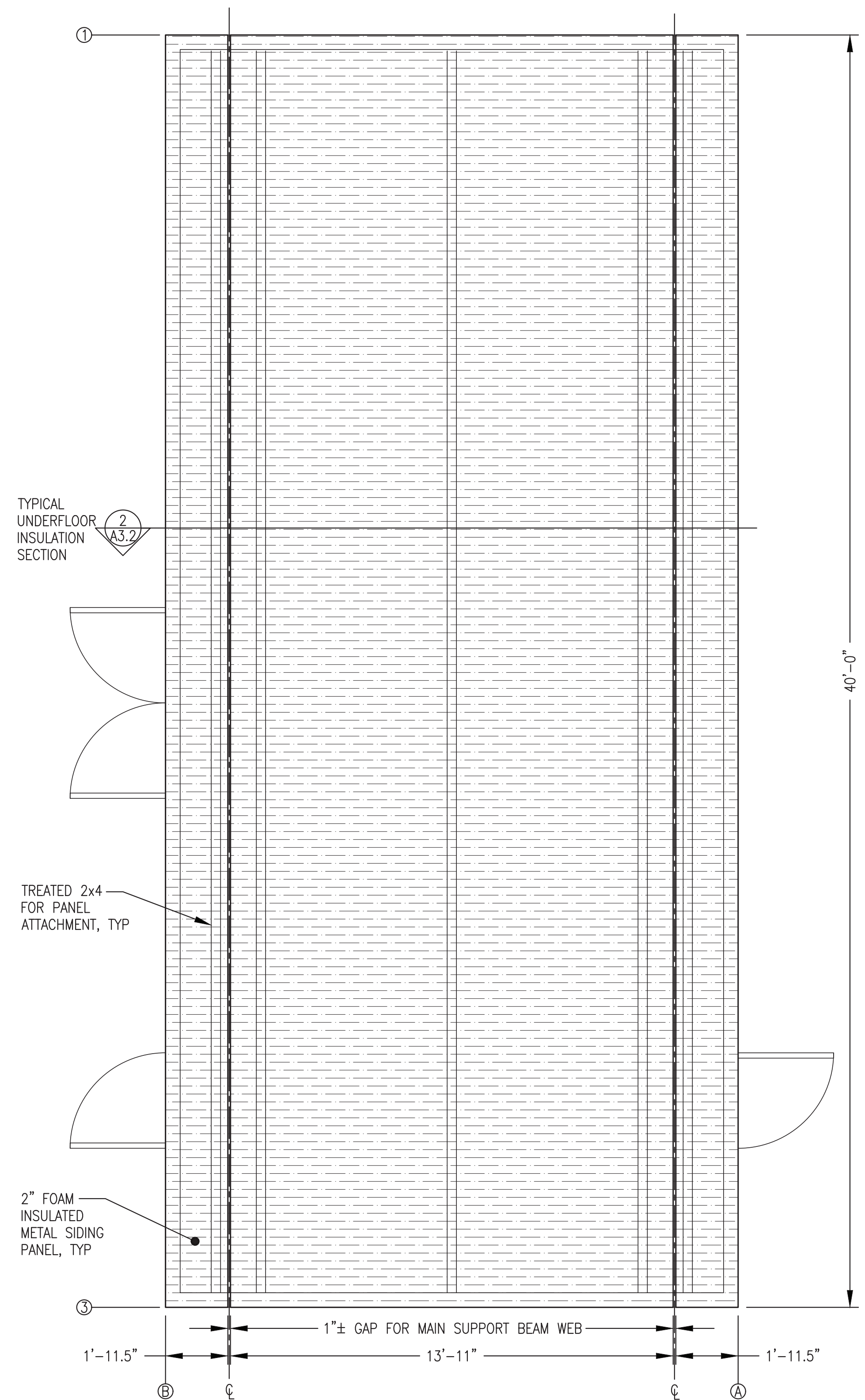
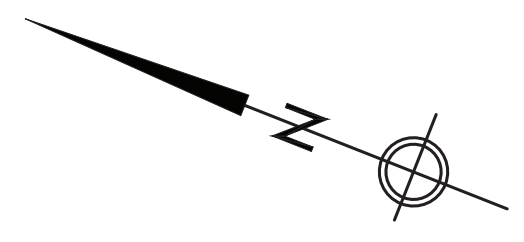


NOTE: DIMENSIONS INDICATE APPROXIMATE METAL PANEL SIZES.

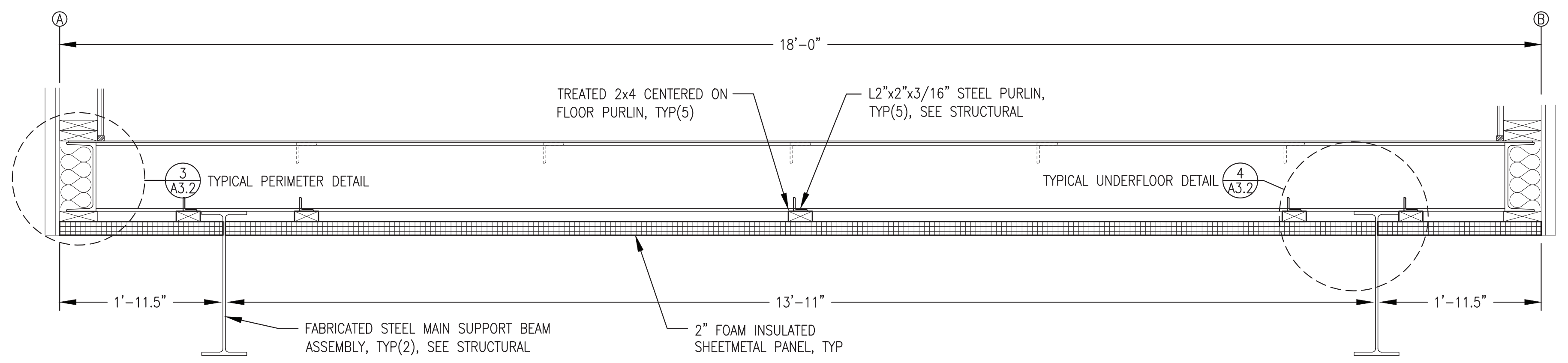
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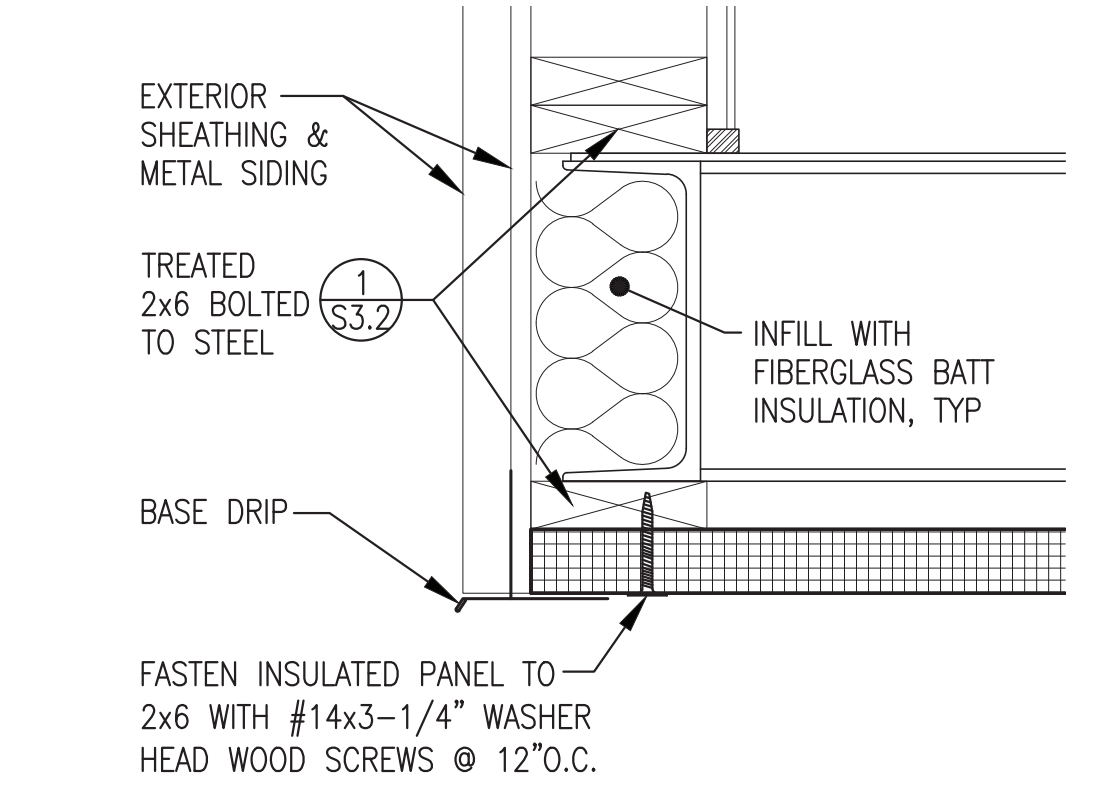
 	
PROJECT: VENETIE POWER SYSTEM UPGRADE	
TITLE: INTERIOR BUILDING ELEVATIONS, DETAILS & REFLECTED CEILING PLAN	
	DRAWN BY: JTD DESIGNED BY: DGT/BGC FILE NAME: VEN PP A&S PROJECT NUMBER:
SCALE: AS NOTED DATE: 11/1/21 SHEET: A3.1	



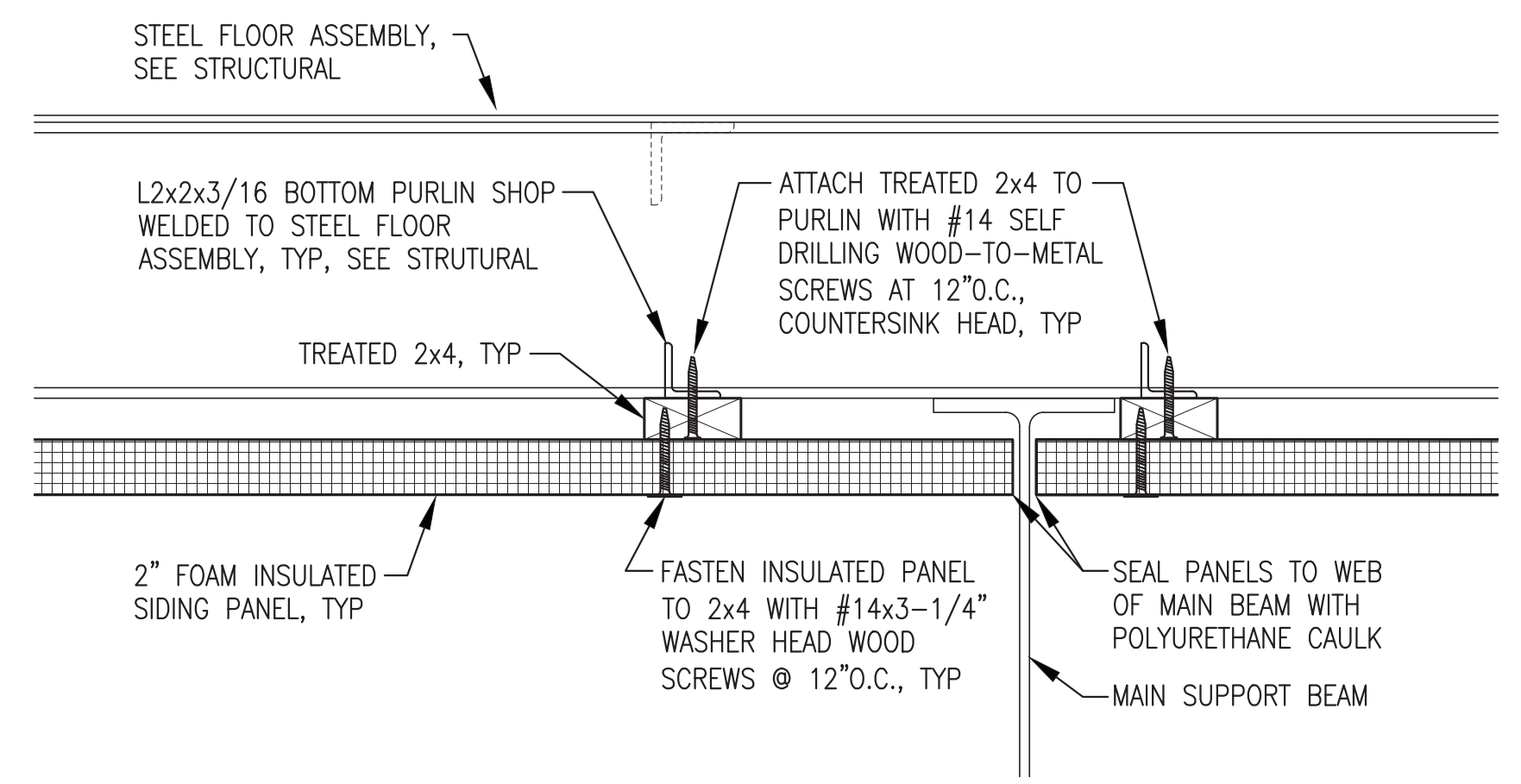
1
A3.2 UNDERFLOOR INSULATION PLAN
3/8"=1'-0"



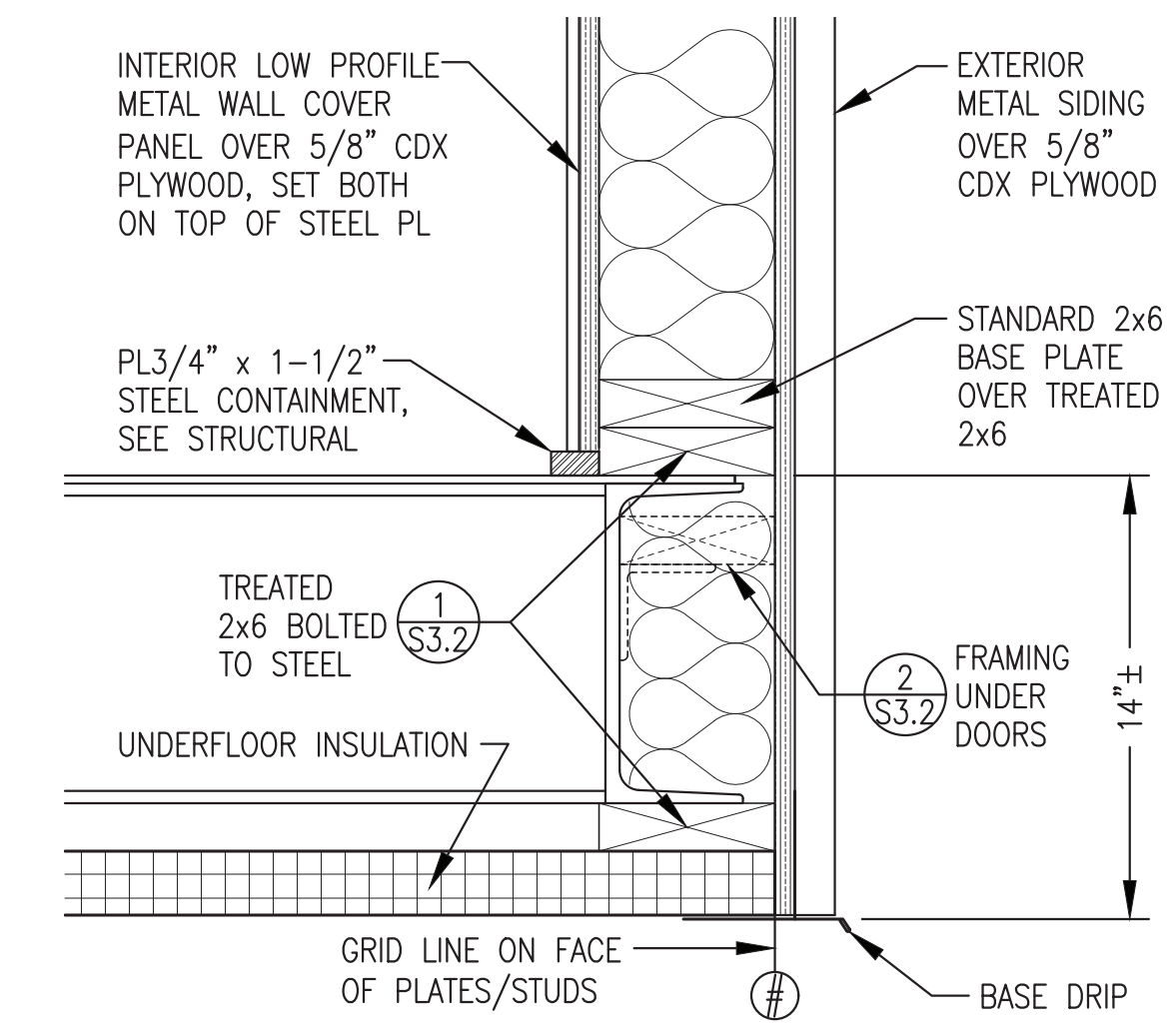
2
A3.2 TYPICAL UNDERFLOOR INSULATION SECTION
1"=1'-0"



3
A3.2 TYPICAL PERIMETER DETAIL
1"=1'-0"






4
A3.2 TYPICAL UNDERFLOOR DETAIL
1"=1'-0"



5
A3.2 EXTERIOR WALL BASE
1"=2'-0"

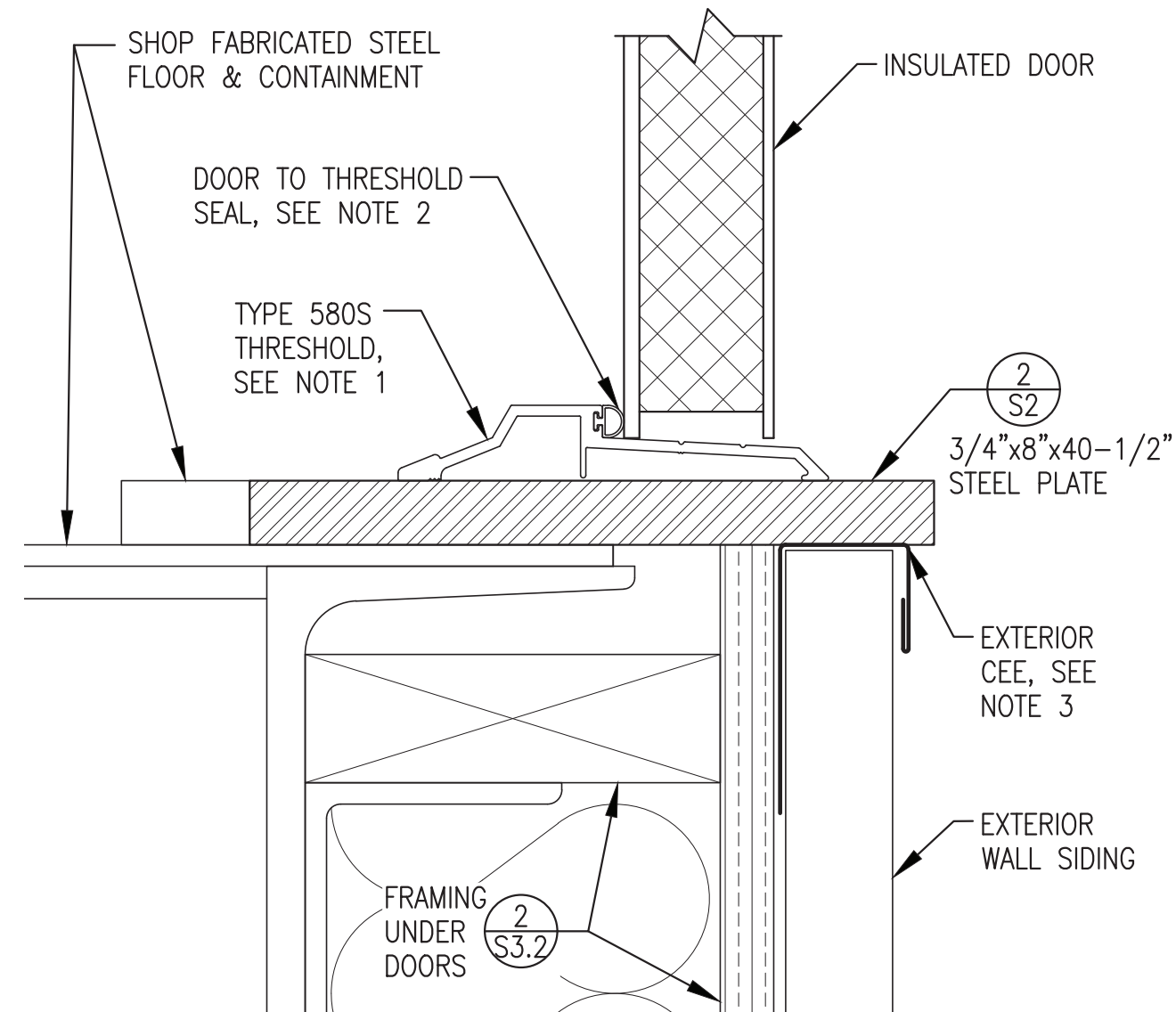
ISSUED FOR
CONSTRUCTION
NOVEMBER
2021



 	
PROJECT: VENETIE POWER SYSTEM UPGRADE	
TITLE: UNDERFLOOR INSULATION INSTALLATION PLAN & DETAILS	
	DRAWN BY: JTD DESIGNED BY: DGT/BCC FILE NAME: VEN_PP_A&S PROJECT NUMBER:
SCALE: AS NOTED	
DATE: 11/1/21	
SHEET: A3.2	
P.O. 111405, Anchorage, AK 99511 (907)349-0100	

NOTES:

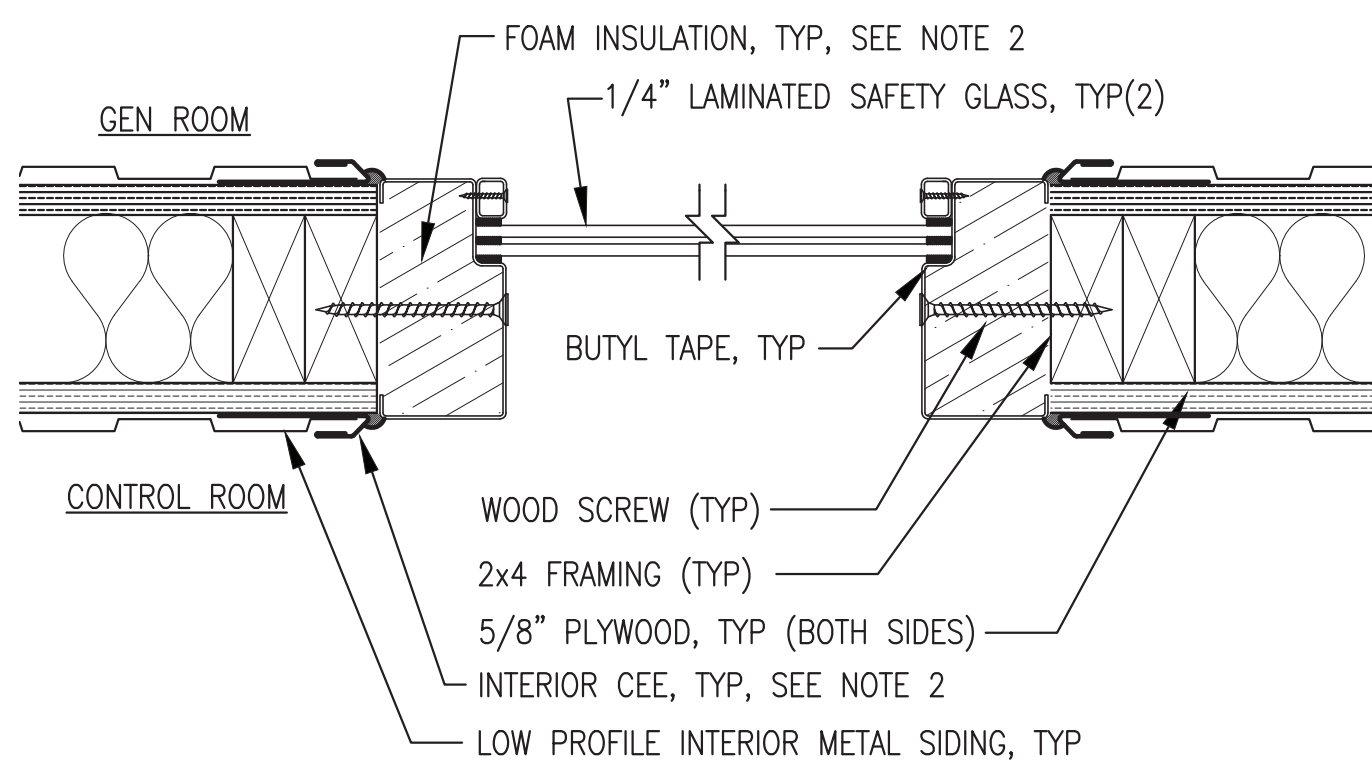
1. SET DOOR FRAME ON TOP OF 3/4" STEEL PLATE AND CAULK FRAME TO PLATE ALL AROUND. SET THRESHOLD ON STEEL PLATE IN CONTINUOUS BED OF POLYURETHANE CAULKING AND CAULK ENDS TO DOOR JAMB.
2. ENSURE DOOR HEIGHT ABOVE STEEL PLATE SET PROPERLY FOR FULL ENGAGEMENT OF DOOR SURFACE WITH THRESHOLD SEAL.
3. CAULK CEE METAL TO STEEL PLATE, COLOR GRAY TO MATCH DOOR FRAME.



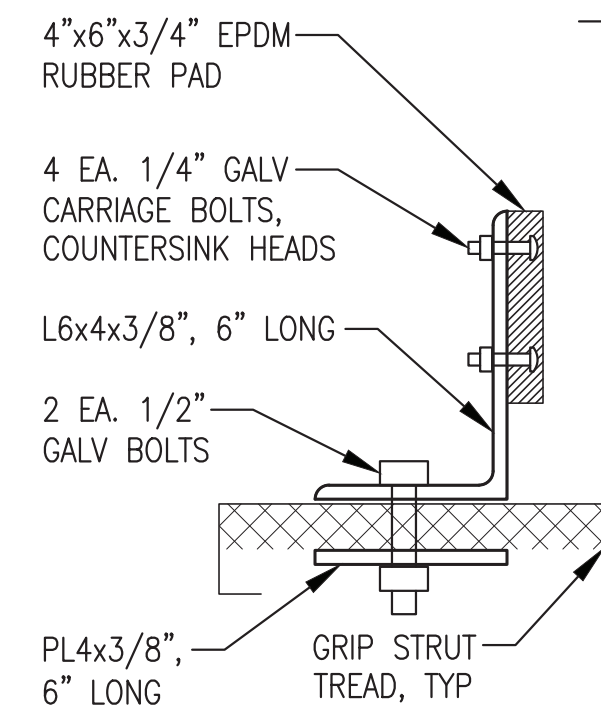
1 EXTERIOR DOOR 101/102 THRESHOLD
A4 NO SCALE

NOTES:

- 1) WINDOW SHOWN, DOOR SIMILAR. JAMB SHOWN, HEAD SIMILAR.
- 2) AFTER ADJUSTING & ANCHORING FRAME, FILL VOID BETWEEN FRAME & STUDS WITH MINIMAL EXPANDING FOAM INSULATION.
- 3) CAULK CEE METAL TO FRAME ALL AROUND, COLOR GRAY TO MATCH DOOR FRAME.



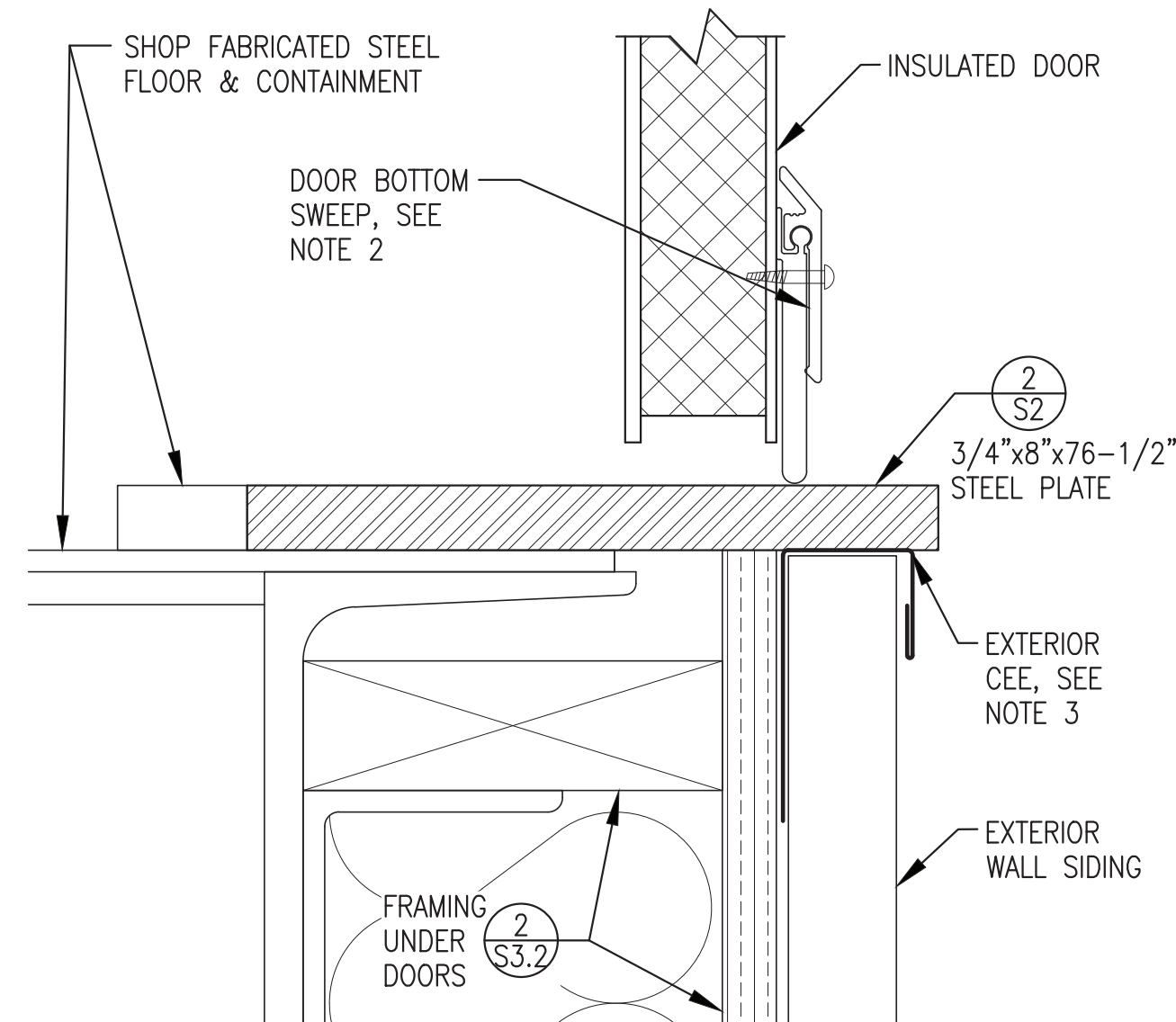
5 INTERIOR DOOR 103/WINDOW B INSTALLATION
A4 NO SCALE



7 TYPICAL EXTERIOR DOOR BOTTOM STOP
A4 NO SCALE

NOTES:

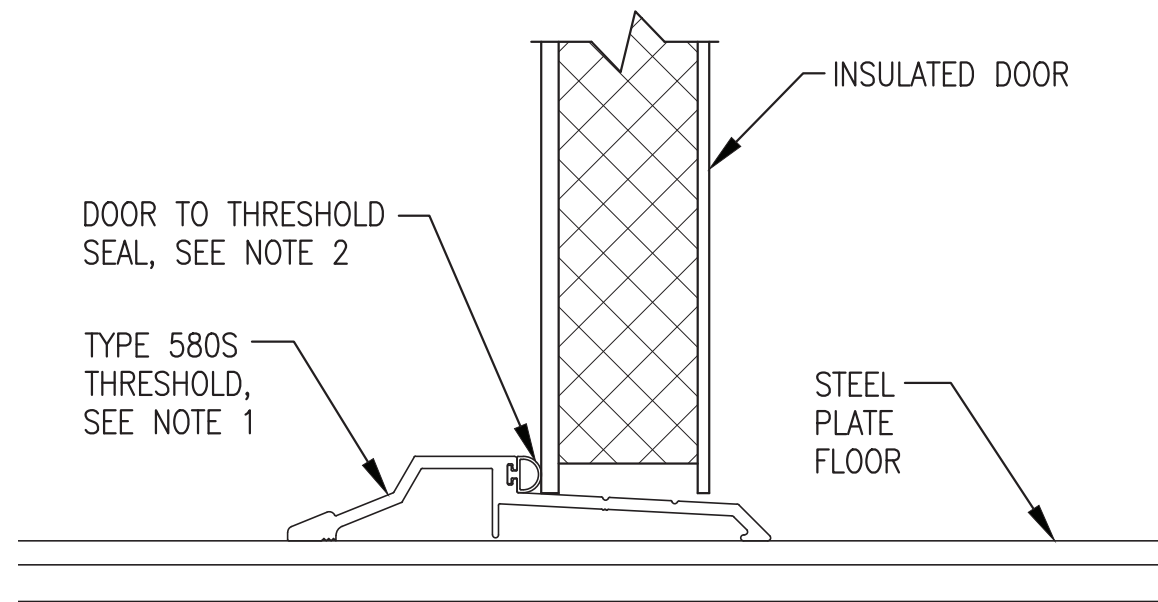
1. SET DOOR FRAME ON TOP OF 3/4" STEEL PLATE AND CAULK FRAME TO PLATE ALL AROUND.
2. ENSURE DOOR HEIGHT ABOVE STEEL PLATE AND SWEEP POSITION SET PROPERLY FOR FULL CONTACT OF SWEEP WITH PLATE.
3. CAULK CEE METAL TO STEEL PLATE, COLOR GRAY TO MATCH DOOR FRAME.



2 EXTERIOR DOOR 104 THRESHOLD
A4 NO SCALE

NOTES:

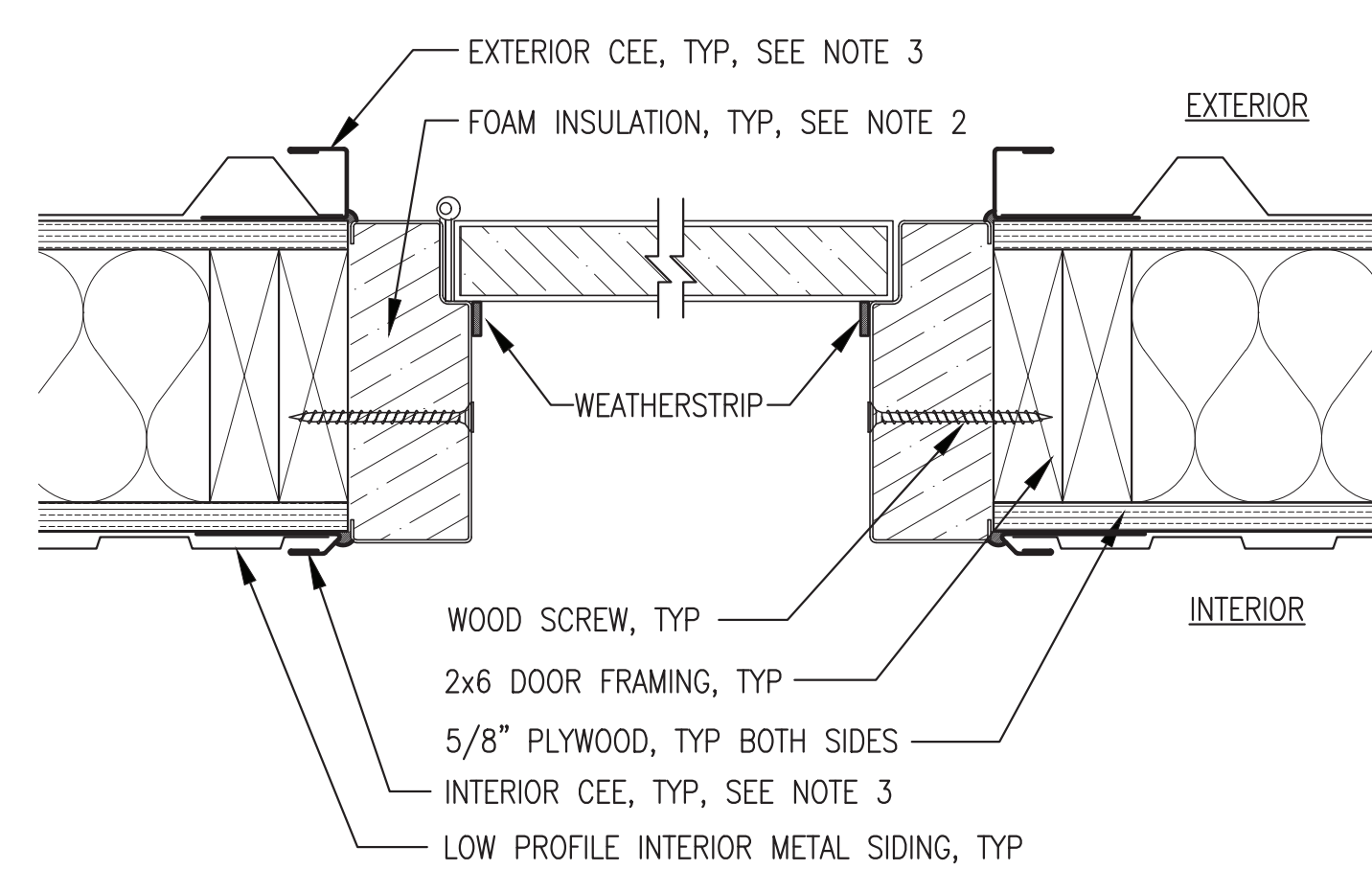
1. SET DOOR FRAME DIRECTLY ON STEEL FLOOR AND CAULK FRAME TO FLOOR ALL AROUND. SET THRESHOLD ON FLOOR IN CONTINUOUS BED OF POLYURETHANE CAULKING AND CAULK ENDS TO DOOR JAMB.
2. ENSURE DOOR HEIGHT ABOVE FLOOR SET PROPERLY FOR FULL ENGAGEMENT OF DOOR SURFACE WITH THRESHOLD SEAL.



6 INTERIOR DOOR 103 THRESHOLD
A4 NO SCALE

NOTES:

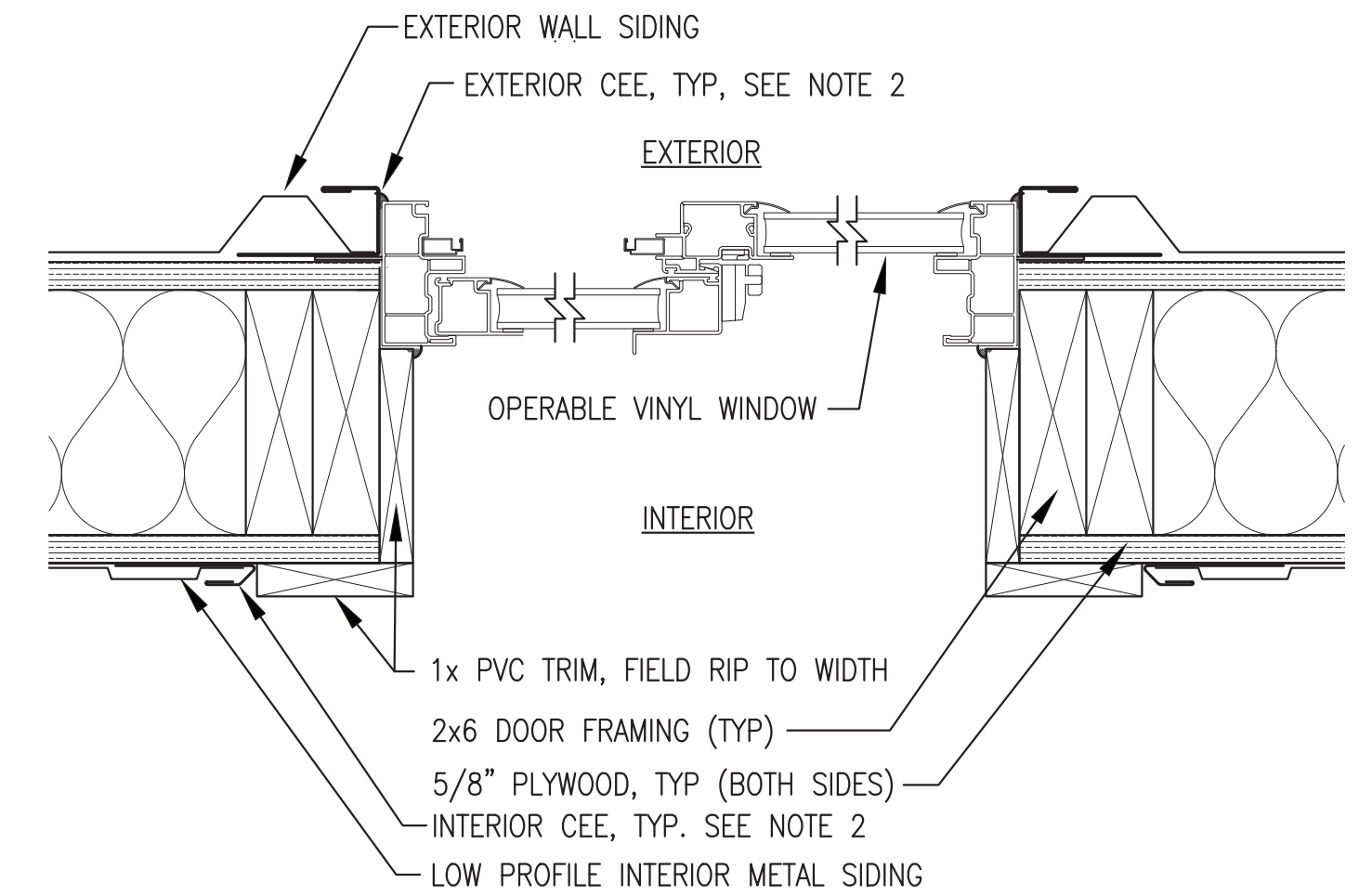
- 1) DOOR JAMB SHOWN, HEAD SIMILAR.
- 2) AFTER ADJUSTING & ANCHORING FRAME, FILL VOID BETWEEN FRAME & STUDS WITH MINIMAL EXPANDING FOAM INSULATION.
- 3) CAULK CEE METAL TO FRAME ALL AROUND, COLOR GRAY TO MATCH DOOR FRAME.



3 TYPICAL EXTERIOR DOOR INSTALLATION
A4 NO SCALE

NOTES:

- 1) WINDOW JAMB SHOWN, HEAD & SILL SIMILAR.
- 2) CAULK CEE METAL TO WINDOW/PVC TRIM ALL AROUND, COLOR WHITE TO MATCH PVC TRIM & WINDOW.

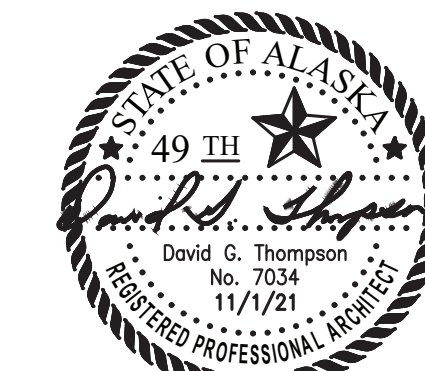




4 EXTERIOR WINDOW A INSTALLATION
A4 NO SCALE

DOOR CONSTRUCTION							FRAME CONSTRUCTION							
DOOR NO.	WIDTH	HEIGHT	THICK NESS	MATERIAL	CORE	REMARKS	HEAD/JAMB DETAIL	SILL DETAIL	FIRE RATING	MATERIAL	TYPE	PROFILE	FRAME DEPTH	HWR
101	3'-0"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {3}	3/A4	1/A4	NONE	16 GA. H.M.	WELDED	SINGLE RABBETED	6.75"	HW-1
102	3'-0"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {3}	3/A4	1/A4	NONE	16 GA. H.M.	WELDED	SINGLE RABBETED	6.75"	HW-1
103	2'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x18" RE-LIGHT {3}	5/A4	6/A4	NONE	16 GA. H.M.	WELDED	SINGLE RABBETED	4.75"	HW-2
104	6'-0"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED		3/A4	2/A4	NONE	16 GA. H.M.	WELDED	SINGLE RABBETED	6.75"	HW-3
HOLLOW METAL WINDOW B							5/A4	5/A4	NONE	16 GA. H.M.	WELDED	SINGLE RABBETED	4.75"	N/A

DOOR HARDWARE:				DOOR/WINDOW B FRAME PROFILE:			
HW-1	3 EA	HINGES	HAGER BB1191 4.5 x 4.5NRP x 630	HW-3	6 EA	HINGES	HAGER BB1191 4.5 x 4.5NRP x 630
	1 EA	EXIT DEVICE	PRECISION 2108 x 4908AX3 x 630		1 EA	EXIT LOCK	SCHLAGE ND25D x RHODES x 626
	1 EA	CORE	BEST BROWN CONSTRUCTION CORE		2 EA	OVERHEAD STOP	ROCKWOOD OH903H x US32D
	1 EA	DOOR CLOSER	LCN 4040 x SCUSH x 689		2 EA	WEATHER STRIP	PEMCO 2891AS x 36 (HEAD)
	1 EA	KICK PLATE	ROCKWOOD K1050 10 x 34 x 630		2 EA	WEATHER STRIP	PEMCO 290AS x 80 (SIDE JAMBS)
	1 EA	WEATHER STRIP	PEMCO 2891AS x 36 (HEAD)		1 EA	ASTRAGAL	PEMCO 355S x 80 (GASKETED "1")
	2 EA	WEATHER STRIP	PEMCO 290AS x 80 (SIDE JAMBS)		2 EA	BOTTOM SWEEP	HAGER 750S x 36
	1 EA	THRESHOLD	HAGER 580S x 36				
HW-2	3 EA	HINGES	HAGER BB1191 4.5 x 4.5 x 630				
	1 EA	EXIT DEVICE	PRECISION 2108 x 4908AX3 x 630				
	1 EA	DOOR CLOSER	LCN 4040 x CUSH x 689				
	1 EA	KICK PLATE	ROCKWOOD K1050 10 x 28 x 630				
	1 EA	MOP PLATE	ROCKWOOD K1050 10 x 29 x 630				
	1 EA	SOUND SEAL	PEMCO 2891AS x 30 (HEAD)				
	2 EA	SOUND SEAL	PEMCO 290AS x 80 (SIDE JAMBS)				
	1 EA	THRESHOLD	HAGER 580S x 30				

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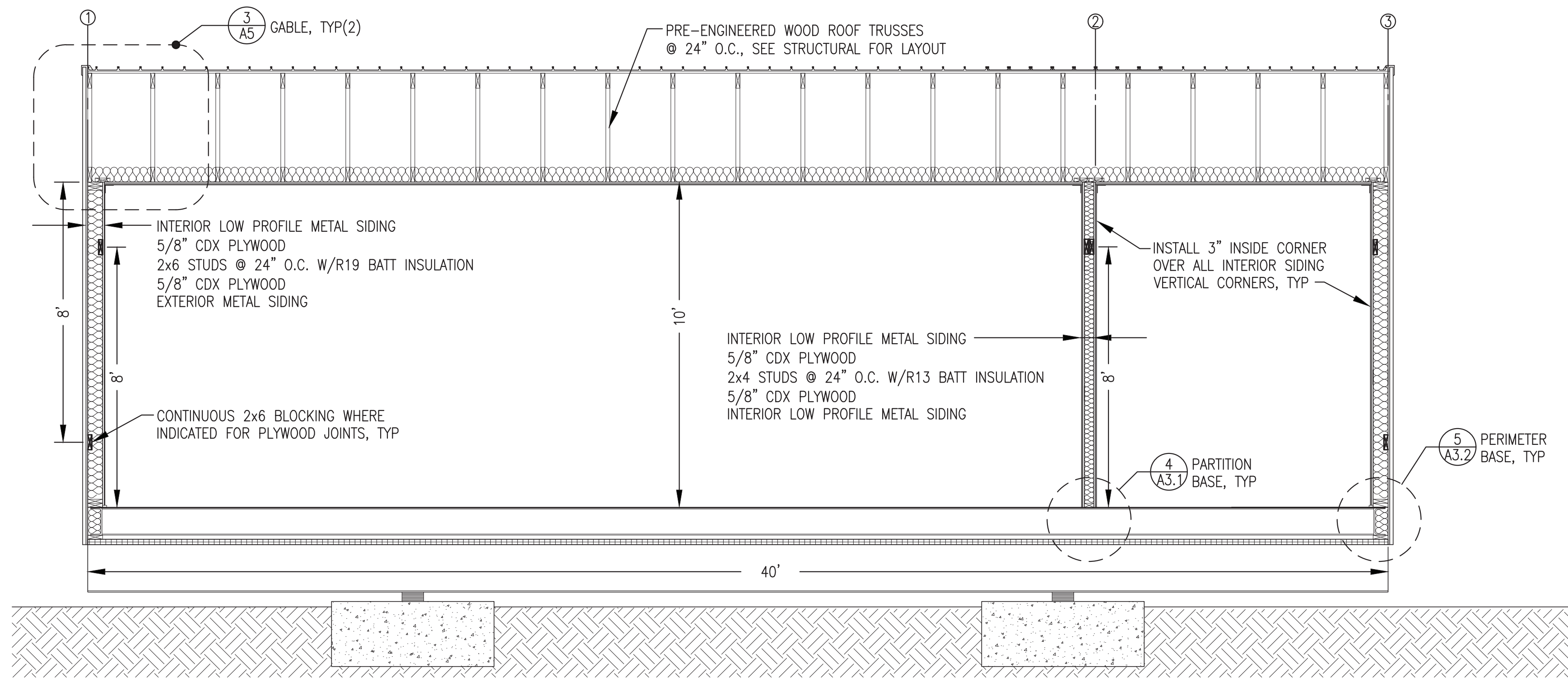



PROJECT: VENETIE POWER SYSTEM UPGRADE

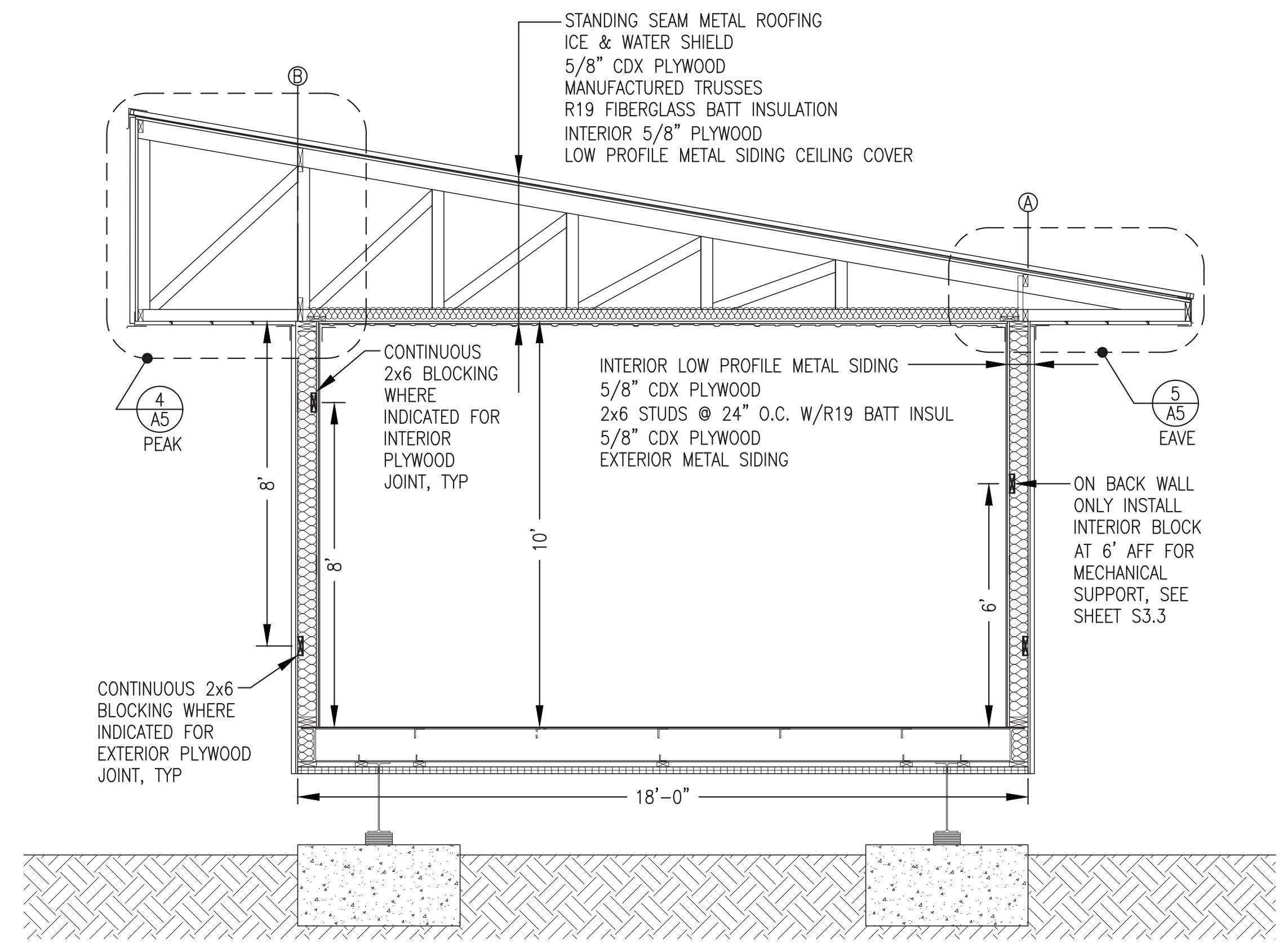
TITLE: DOORS/WINDOWS SCHEDULES & DETAILS

DRAWN BY: JTD	SCALE: AS NOTED
DESIGNED BY: DGT/BCC	DATE: 11/1/21
FILE NAME: VEN PP A&S	SHEET: A4
PROJECT NUMBER:	

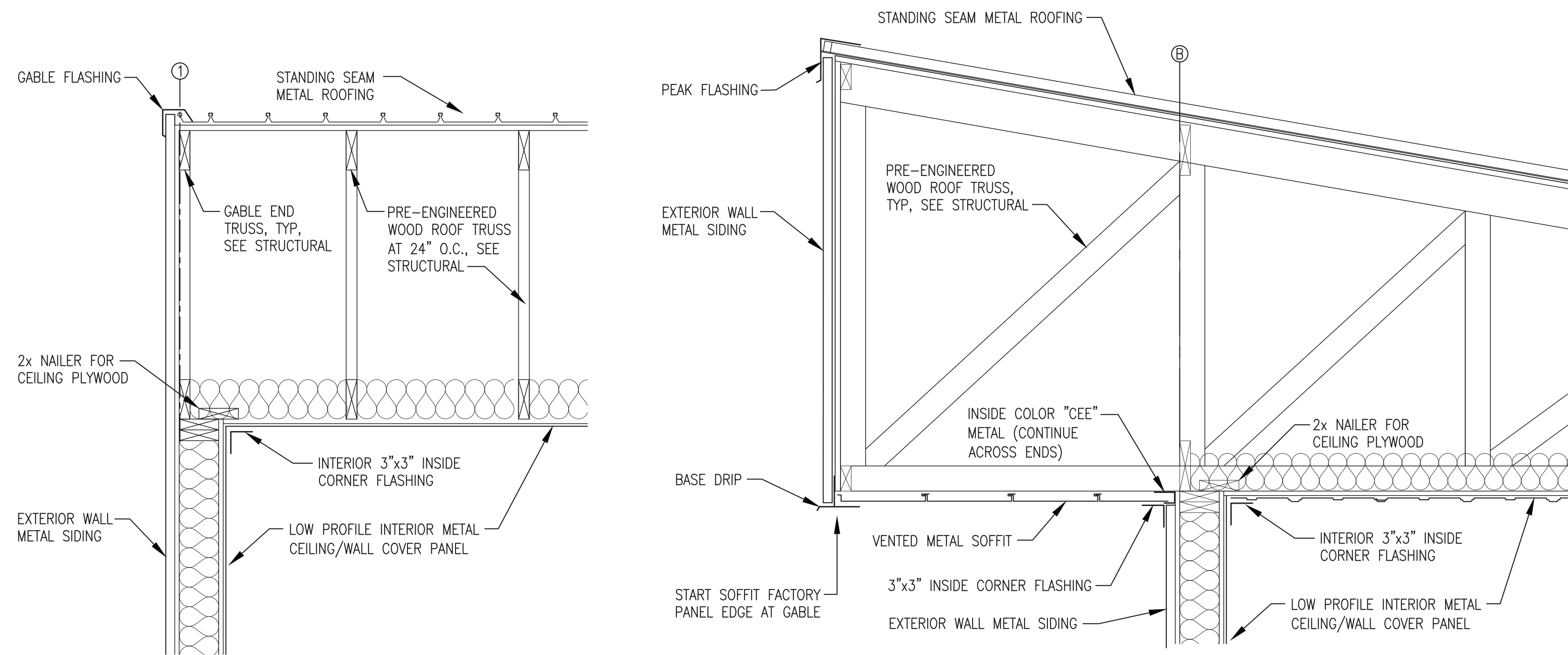
P.O. 111405, Anchorage, AK 99511 (907)349-0100



1 BUILDING SECTION
A5 3/8"=1'-0"

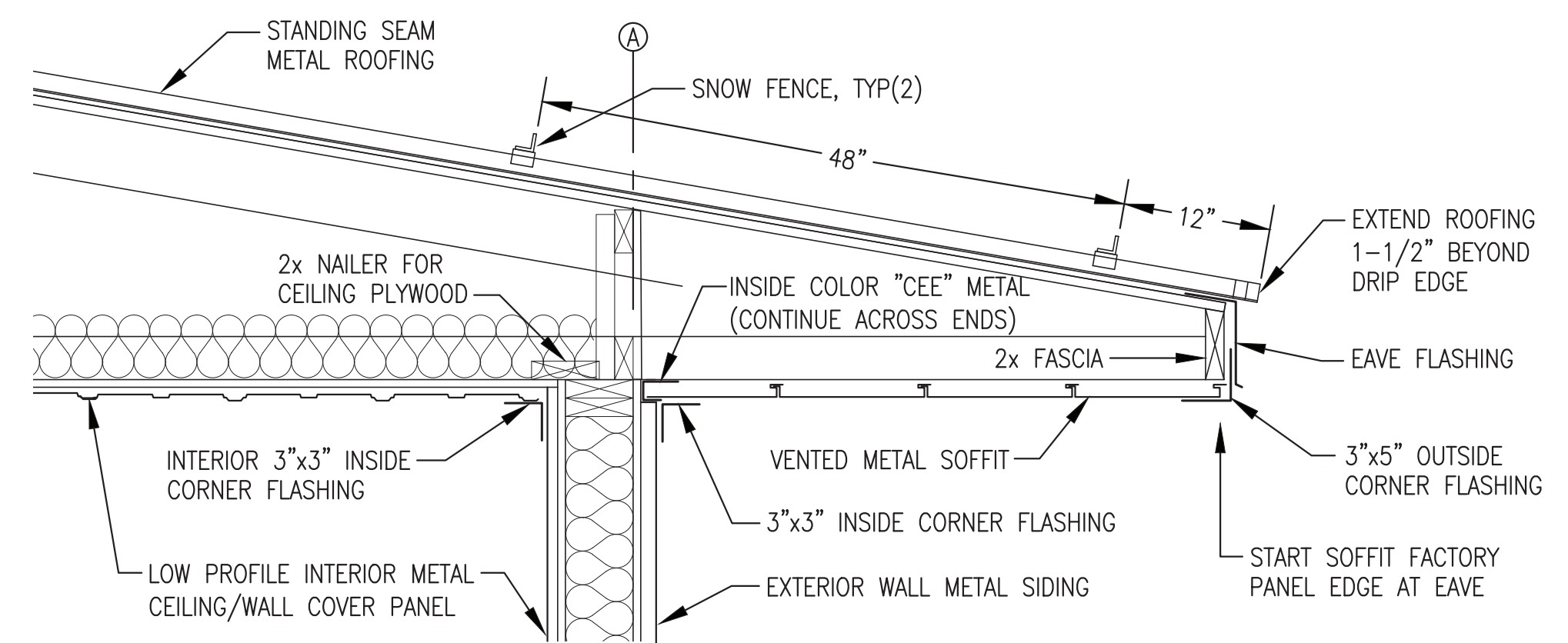


2 BUILDING SECTION
A5 3/8"=1'-0"



3 GABLE DETAIL
A5 1"=1'-0"

4 PEAK DETAIL
A5 1"=1'-0"



5 EAVE DETAIL
A5 1"=1'-0"

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NOVEMBER
2021



PROJECT:	VENETIE POWER SYSTEM UPGRADE	
TITLE:	BUILDING SECTIONS & DETAILS	
DRAWN BY:	JTD	SCALE: AS NOTED
DESIGNED BY:	DGT/BCC	DATE: 11/1/21
FILE NAME:	VEN_PP_A&S	SHEET:
PROJECT NUMBER:		A5

Gray
Stassel
Engineering, Inc.
P.O. 111405, Anchorage, AK 99511 (907)349-0100

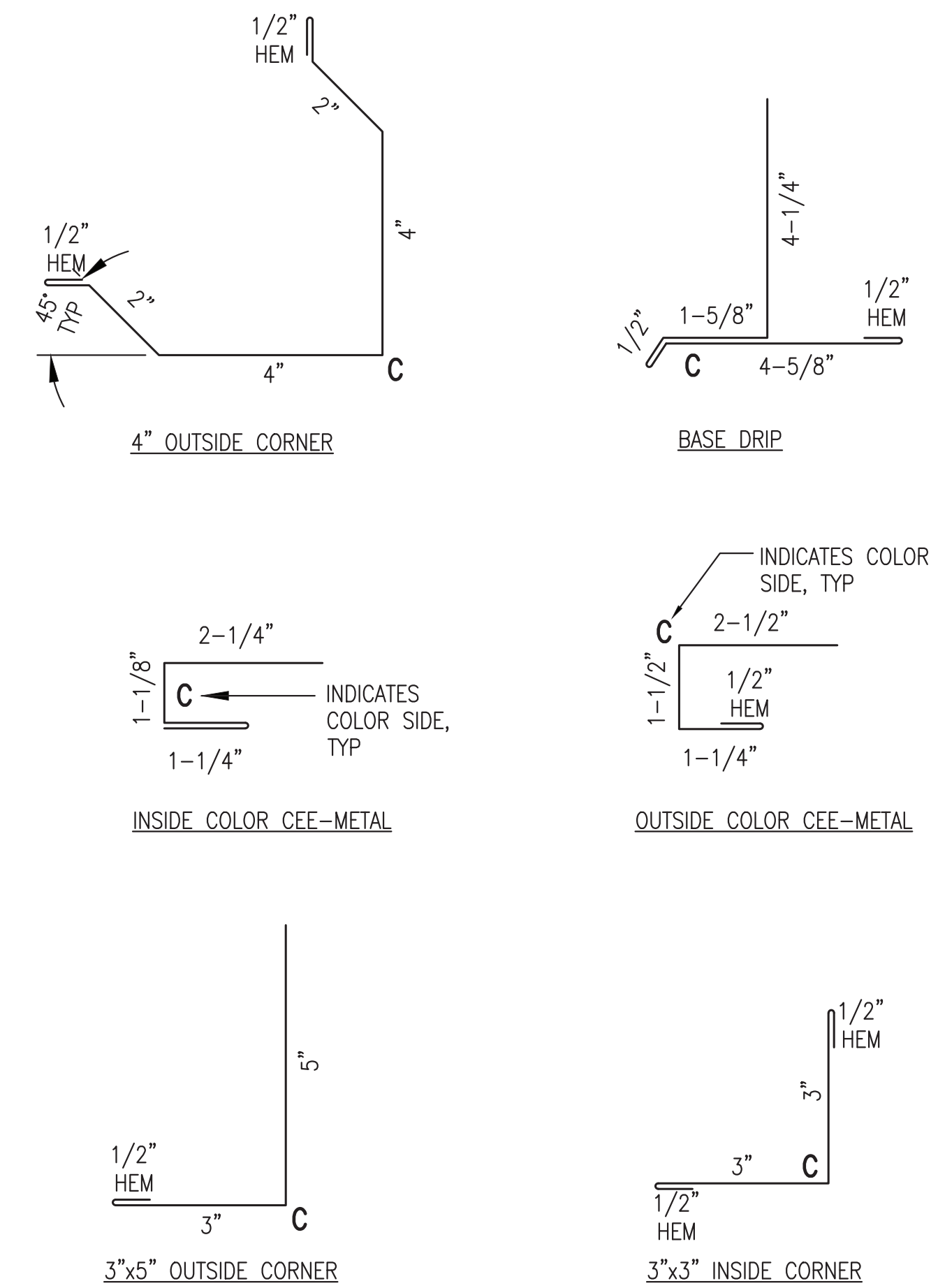
METAL ROOFING/SIDING GENERAL NOTES:

- 1) FURNISH A COMPLETE EXTERIOR METAL ROOFING SYSTEM AND METAL SIDING SYSTEM WITH ALL FLASHINGS AND ACCESSORIES REQUIRED TO FORM A CONTINUOUS WEATHERPROOF SEAL.
- 2) FURNISH CLIPS AND FASTENERS AS REQUIRED TO MEET MEET LOAD CONDITIONS INDICATED ON SHEET S1.2. ALL FASTENERS CORROSION RESISTANT STAINLESS STEEL OR ALUMINUM.
- 3) FURNISH A COMPLETE INTERIOR METAL CEILING AND WALL COVER SYSTEMS WITH ALL FLASHING AND ACCESSORIES AS INDICATED.
- 4) PROVIDE CEE METAL TRIM FOR ALL DOORS, WINDOWS, AND MECHANICAL/ELECTRICAL OPENINGS SHOWN ON PLANS AND SECTIONS. CEE METAL TO MATCH ASSOCIATED METAL SIDING AS INDICATED.
- 5) ROOFING SYSTEM COLOR FORREST GREEN TO INCLUDE ROOF TRIM AS INDICATED. EXTERIOR WALL COLOR SIERRA TAN TO COVER ALL EXTERIOR SURFACES UP TO ROOF TRIM INCLUDING SOFFIT. ALL INTERIOR METAL COLOR WHITE.
- 6) IN ADDITION TO PANELS REQUIRED FOR COMPLETE COVERAGE OF ALL SURFACES FURNISH ONE EACH SPARE OF LONGEST OF EACH TYPE OF PANEL INCLUDING ROOF, SOFFIT, EXTERIOR SIDING, INTERIOR WALL, AND INTERIOR CEILING.
- 7) PROVIDE COMPLETE SHOP DRAWINGS FOR ALL METAL ROOFING AND SIDING INCLUDING LAYOUT, DETAILS, AND BILL OF MATERIALS.

EXTERIOR WALL SIDING SYSTEM SPECIFICATIONS:

- 1) EXTERIOR SIDING SYSTEM PANELS SHALL BE MIN 24 GAUGE GALVANIZED STEEL, 36" NET COVERAGE, 1-1/4" HIGH MAJOR RIBS AT 16" O.C. AND 1/4" HIGH MINOR RIBS AT 12" O.C. AEP SPAN PBR OR EQUAL. KYNAR OR PVDF FINISH, COLOR COOL SIERRA TAN.
- 2) VENTED SOFFIT PANELS SHALL BE 24 GAUGE GALVANIZED STEEL, 12" NET COVERAGE, KYNAR FINISH, 1" STANDOFF FROM SUBSTRATE, CONCEALED FASTENERS, WITH TWO PENCIL RIBS PROVIDING MINIMUM 7.8% NET FREE AREA. AEP SPAN FLUSH-PANEL OR EQUAL. KYNAR OR PVDF FINISH, COLOR COOL SIERRA TAN.
- 3) EXTERIOR SIDING SYSTEM TRIM/FLASHING SHALL BE MIN 24 GAUGE GALVANIZED STEEL, KYNAR OR PVDF FINISH TO MATCH EXTERIOR SIDING PANELS.

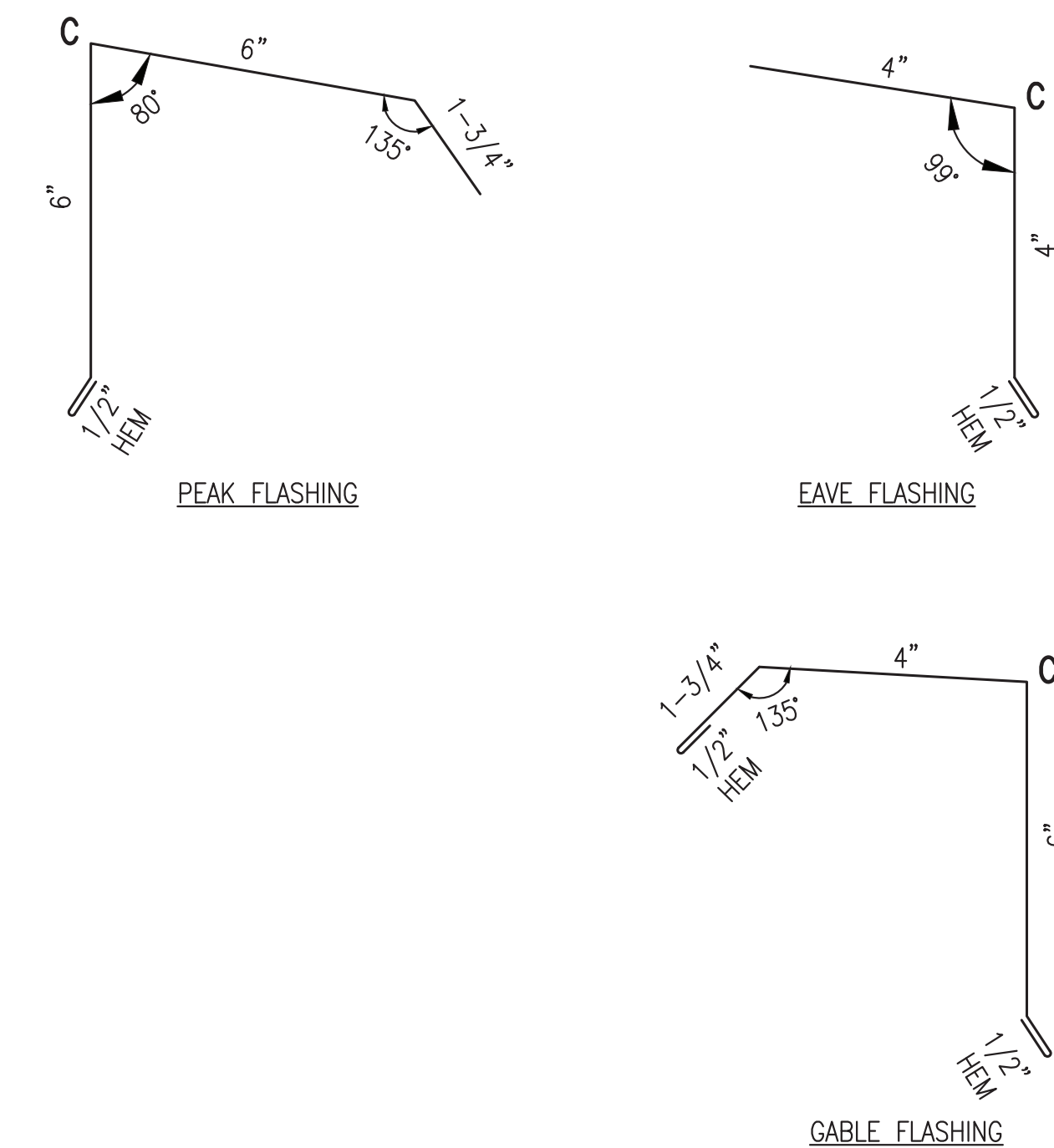
EXTERIOR WALL SIDING SYSTEM TRIM & FLASHING (PVDF FINISH, COLOR COOL SIERRA TAN):



ROOFING SYSTEM SPECIFICATIONS:

- 1) ROOFING SYSTEM STANDING SEAM PANELS SHALL BE MIN 22 GAUGE GALVANIZED STEEL, 16" NET COVERAGE, 1-7/8" HIGH RIBS. AEP SPAN DESIGN SPAN HP OR EQUAL. KYNAR OR PVDF FINISH, COLOR COOL LEAF GREEN.
- 2) ROOFING SYSTEM TRIM/FLASHING SHALL BE MIN 24 GAUGE GALVANIZED STEEL. KYNAR OR PVDF FINISH TO MATCH ROOF PANELS.

ROOFING SYSTEM TRIM & FLASHING (PVDF FINISH, COLOR COOL LEAF GREEN):



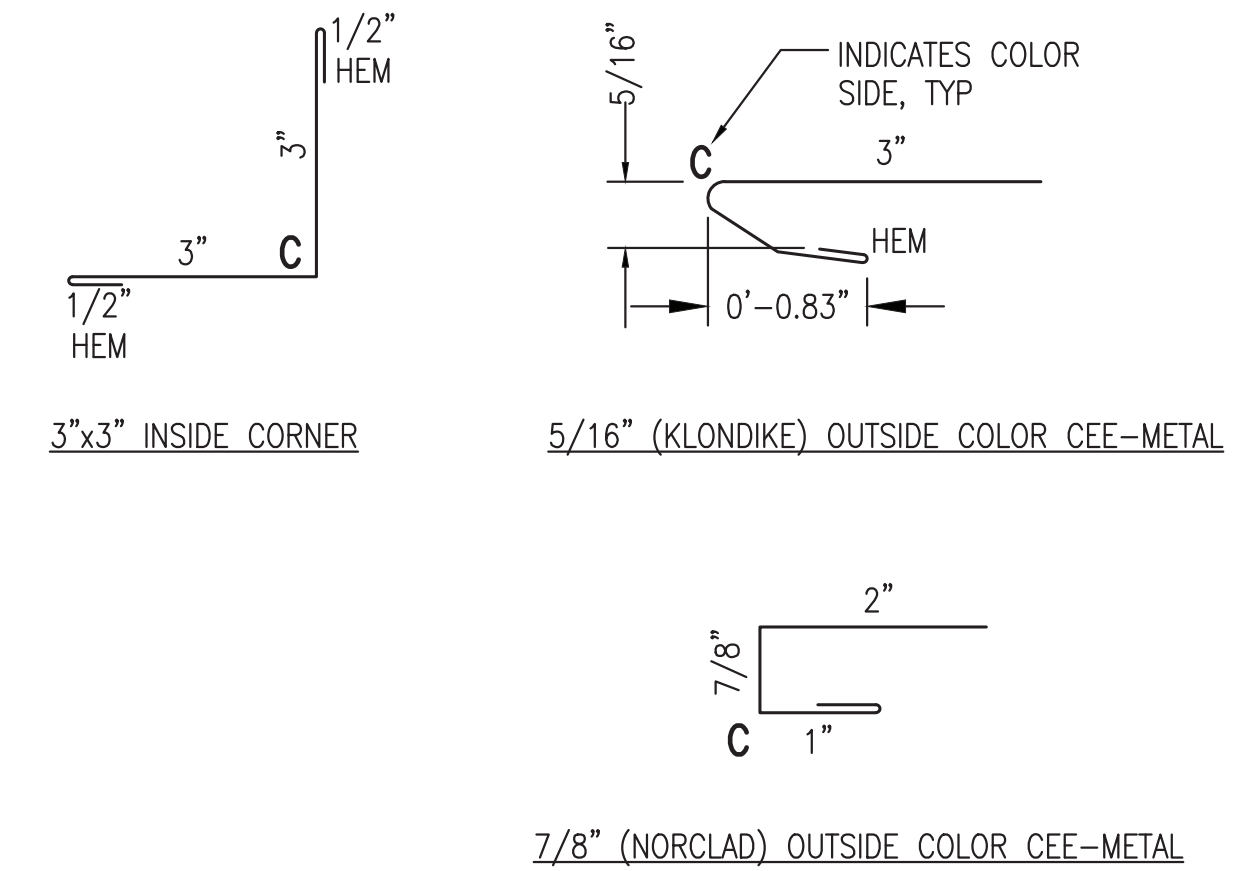
SNOW FENCE SPECIFICATIONS:

- 1) PROVIDE 2 ROWS OF SNOW RETENTION FENCE AS INDICATED.
- 2) SNOW FENCE SHALL BE L.M. CURBS COLOR GUARD OR APPROVED EQUAL. FURNISH COMPLETE SYSTEM INCLUDING UNPUNCHED COLOR GUARD, SPLICES, VERSA CLIPS, SNO CLIPS III, S5 KHD CLAMPS, 6" INSERTS, AND ALL REQUIRED FASTENERS.

INTERIOR CEILING/WALL COVER SPECIFICATIONS:

- 1) INTERIOR METAL CEILING COVER SHALL BE MIN 29 GAUGE GALVANIZED STEEL, 36" NET COVERAGE, 5/8" LOW PROFILE RIBS AT 9" O.C. ASC NOR-CLAD OR EQUAL. STMP, KYNAR, OR PVDF FINISH, COLOR WINTER WHITE.
- 2) INTERIOR METAL WALL COVER SHALL BE MIN 29 GAUGE GALVANIZED STEEL, 36" NET COVERAGE, 1/4" LOW PROFILE RIBS AT 4" O.C. ASC KLONDIKE OR EQUAL. STMP, KYNAR, OR PVDF FINISH, COLOR WINTER WHITE.
- 3) INTERIOR METAL CEILING/WALL COVER TRIM/FLASHING SHALL BE MIN 29 GAUGE GALVANIZED STEEL. STMP, KYNAR, OR PVDF FINISH, COLOR WINTER WHITE.

INTERIOR CEILING/WALL TRIM & FLASHING (COLOR REGAL WHITE):



UNDERFLOOR INSULATED SIDING PANEL SPECIFICATIONS:

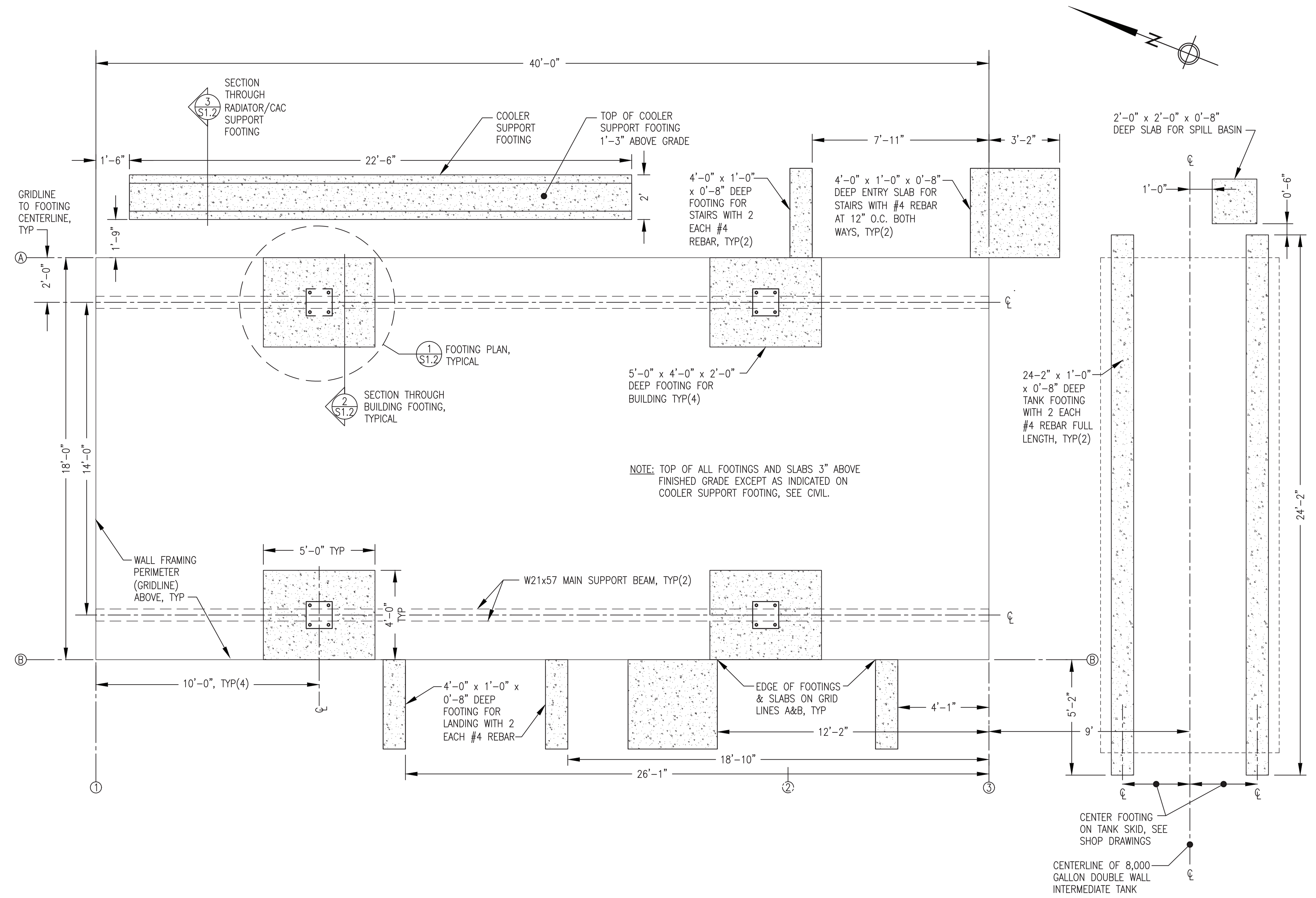
- 1) INSULATED UNDERFLOOR SHALL BE ROLL-FORMED GALVANIZED STEEL SHEET FACES CHEMICALLY BONDED TO INSULATED CORE. CONTINUOUSLY FOAMED-IN-PLACE POLYURETHANE, FACTORY MUTUAL CLASS 1 APPROVAL. METL-SPAN SANTA FE OR APPROVED EQUAL.
- 2) EXTERIOR FACE SHALL BE MINIMUM 24 GAUGE STUCCO EMBOSSED FLAT WALL PANEL. KYNAR OR PVDF FINISH, COLOR COOL ZINC GRAY. INTERIOR FACE SHALL BE MINIMUM 24 GAUGE STUCCO EMBOSSED FLAT WALL PANEL. STMP, KYNAR, OR PVDF FINISH, COLOR WHITE.
- 3) SIDE CONNECTION JOINTS SHALL BE OFFSET DOUBLE TONGUE AND GROOVE WITH AN EXTENDED METAL SHELF.

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PROJECT: VENETIE POWER SYSTEM UPGRADE		
TITLE: ROOFING/SIDING SPECIFICATIONS & DETAILS		
DRAWN BY: JTD	SCALE: AS NOTED	DATE: 11/1/21
DESIGNED BY: DGT/BCG	FILE NAME: VEN_PP_A&S	SHEET: A6
PROJECT NUMBER:		





STRUCTURAL GENERAL NOTES:

1.0 DESIGN LOADS:

A. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE

B. FLOOR LIVE LOADS: (IBC TABLE 1607.1)
 LIGHT STORAGE/MANUFACTURING 125 PSF OR 2000 POUND POINT LOAD
 MAXIMUM GENERATOR UNIT WEIGHT 6,000 POUNDS

C. SNOW LOADS: (ASCE 7-10)
 GROUND SNOW LOAD, P_g = 70 PSF
 COEFFICIENT OF EXPOSURE, C_e = 1.0 PARTIALLY EXPOSED
 SNOW IMPORTANCE FACTOR, I_s = 1.2 CATEGORY IV
 THERMAL COEFFICIENT, C_t = 1.1 COLD, VENTILATED ROOF
 ROOF/FLAT SNOW LOAD, P_f = 65 PSF

D. WIND LOADS:
 BASIC WIND SPEED = 116 MPH, 3 SECOND GUST
 RISK CATEGORY = CATEGORY IV
 EXPOSURE CLASSIFICATION = EXPOSURE C

E. SEISMIC LOADING:
 SEISMIC = $S_s = 0.55$ $S_1 = 0.21$
 SEISMIC IMPORTANCE FACTOR = 1.50, CATEGORY IV

SITE CLASS "D"
 BASIC SEISMIC FORCE RESISTANCE SYSTEM = BUILDING - WOOD BEARING/SHEAR WALLS
 FOUNDATION - SPREAD CONCRETE FOOTINGS
 SEISMIC RESPONSE COEFFICIENT, R = 6-1/2

2.0 FOUNDATIONS:
 A. SEE CIVIL FOR NFS STRUCTURAL GRAVEL PAD.
 B. PROVIDE REINFORCED CONCRETE FOUNDATIONS IN ACCORDANCE WITH SPECIFICATIONS AND AS DETAILED ON SHEET S1.2.



3.0 STRUCTURAL STEEL:
 A. THE DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL COMPLY WITH THE CODE OF STANDARD PRACTICE OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
 B. ALL STEEL PLATE, SHAPES, AND ROLLED SECTIONS SHALL BE ASTM A36. ALL STEEL TUBING SHALL BE ASTM A500, GRADE B.
 C. ALL METAL TO METAL CONNECTIONS SHALL BE EQUAL TO STANDARD CONNECTION, OR AS DETAILED USING A325 BOLTS (BEARING TYPE CONNECTIONS). TIGHTEN HIGH STRENGTH BOLTS WITH PROPERLY CALIBRATED WRENCHES, BY TURN-OF-THE-NUT METHOD, OR BY LOAD WASHERS. ALL CONNECTIONS UNLESS OTHERWISE DETAILED, SHALL HAVE THE MAXIMUM NUMBER OF 3/4" DIAMETER BOLTS USING STANDARD GAUGES AND CLEARANCES.
 D. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE CURRENT CODE OF THE AMERICAN WELDING SOCIETY. USE AWS 5.1 E70XX ELECTRODES. MINIMUM FILLET WELD SHALL BE 3/16" EXCEPT FOR SEAL WELDS TO GAUGE METAL AS INDICATED.
 E. STEEL SURFACES SHALL BE PREPARED AND PAINTED AS INDICATED IN THE ASSOCIATED FABRICATION AND ASSEMBLY NOTES.

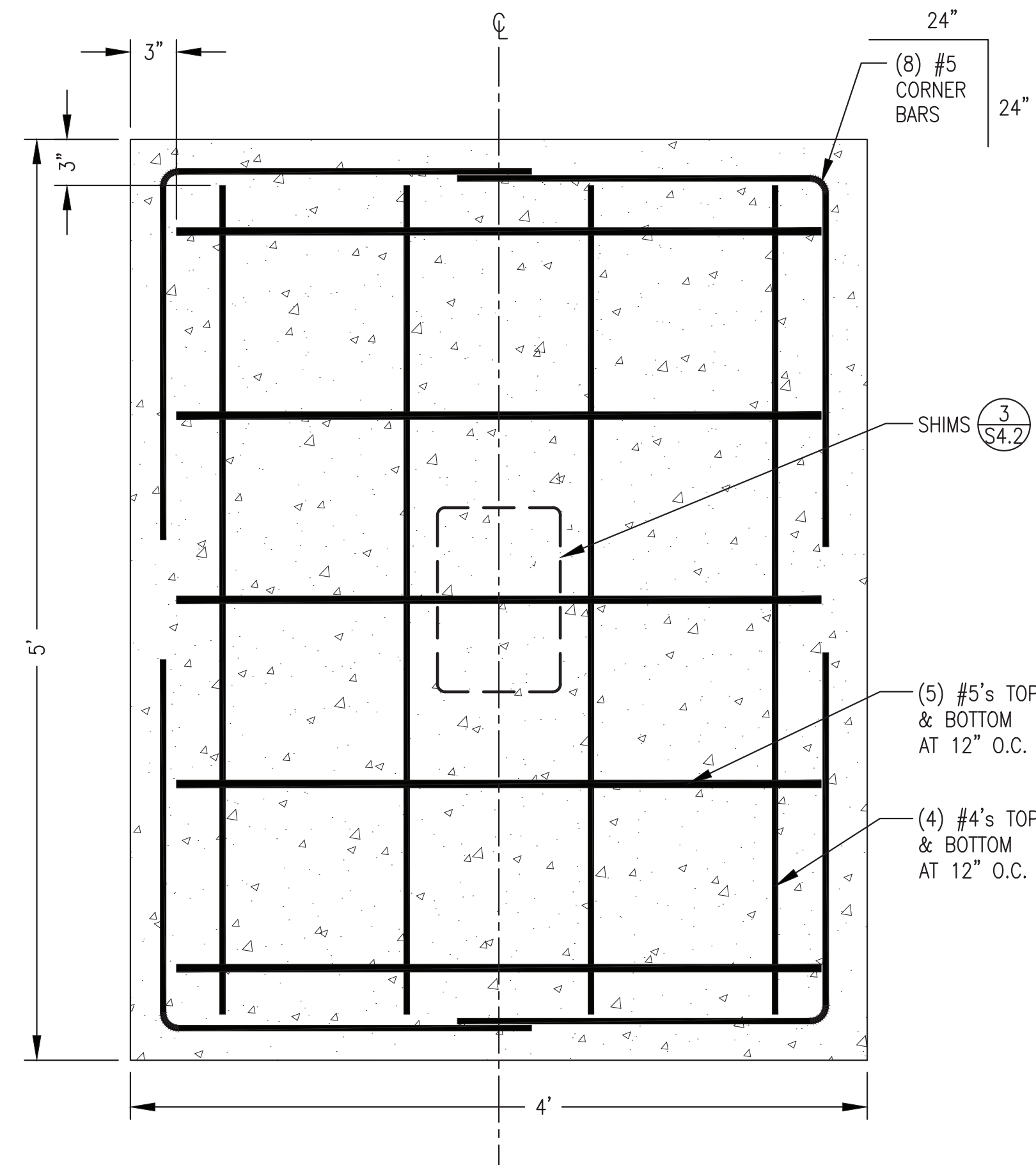
4.0 WOOD:
 A. 5/8" PLYWOOD SHALL HAVE A PANEL SPAN RATING OF 32/16 - MINIMUM NAILING FOR PANELS, UNLESS OTHERWISE NOTED, SHALL EQUAL 10d NAILS AT 4" CENTERS AROUND PLYWOOD PANEL EDGES AND 10d'S @ 12" CENTERS ALONG INTERMEDIATE FRAMING. BLOCK ALL DIAPHRAGM PANEL EDGES WITH 2X4 FLAT BLOCKING. OSB PANELS WILL NOT BE ACCEPTED.
 B. FRAMING MATERIAL: DOUGLAS FIR OR HEM FIR, NO. 2 OR BETTER MINIMUM FOR JOISTS, STUDS, PANEL JOINTS, WOOD PLATES, BLOCKING, AND HEADERS. MAXIMUM MOISTURE CONTENT SHALL BE 19%. FOR FRAMING SPECIFICALLY INDICATED AS TREATED PROVIDE LUMBER TREATED FOR GROUND CONTACT TO 0.4 RETENTION MINIMUM.
 C. ALL METAL TO WOOD OR WOOD TO WOOD CONNECTIONS SHALL BE STANDARD OR AS DETAILED ON THE DRAWINGS. ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL.
 D. ALL METAL FRAMING ANCHORS AND SPLICE PLATES SHALL BE FABRICATED FROM GALVANIZED STEEL AND SHALL SUPPORT THE LOADS INDICATED ON THE DRAWINGS. ANCHORS INDICATED ON THE DRAWINGS ARE "SIMPSON COMPANY" OR EQUAL.
 E. MINIMUM NAILING SHALL EQUAL THAT INDICATED IN 2012 IBC TABLE 2304.9.1 UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS. MINIMUM NAILING FOR EXTERIOR PLYWOOD PANELS SHALL EQUAL 10d NAILS AT 4" CENTERS AROUND PLYWOOD PANEL EDGES AND 10d'S @ 12" CENTERS ALONG INTERMEDIATE FRAMING. BLOCK ALL DIAPHRAGM PANEL EDGES WITH 2x4 OR 2x6 BLOCKING.
 F. ERECT WOOD FRAMING MEMBERS TRUE TO LINES AND LEVELS. DO NOT DEVIATE FROM TRUE ALIGNMENT MORE THAN 1/4 INCH.
 G. PREMANUFACTURED ROOF TRUSSES: ALL PRE-MANUFACTURED WOOD TRUSSES SHALL BE "GANG NAIL" OR EQUAL AND SHALL BE FABRICATED WITH GALVANIZED PLATES AND FASTENERS AS INDICATED ABOVE. TRUSSES SHALL BE DESIGNED FOR THE GRAVITY LOADS, WIND & SEISMIC LATERAL & UPLIFT LOADS, AND SUPPORT CONDITIONS AS INDICATED ON THE DRAWINGS. NO DURATION OF LOAD INCREASE IN STRESSES WILL BE ALLOWED FOR SNOW LOADING. UNBALANCED SNOW AND DRIFT LOADING IS REQUIRED. SUBMIT TRUSS DESIGNS STAMPED BY AN ENGINEER LICENSED TO PRACTICE IN THE STATE OF ALASKA. TRUSS DRAWINGS SHALL INDICATE ALL MATERIALS OF CONSTRUCTION.

1 FOUNDATION PLAN
 S1.1 3/8"=1'-0"

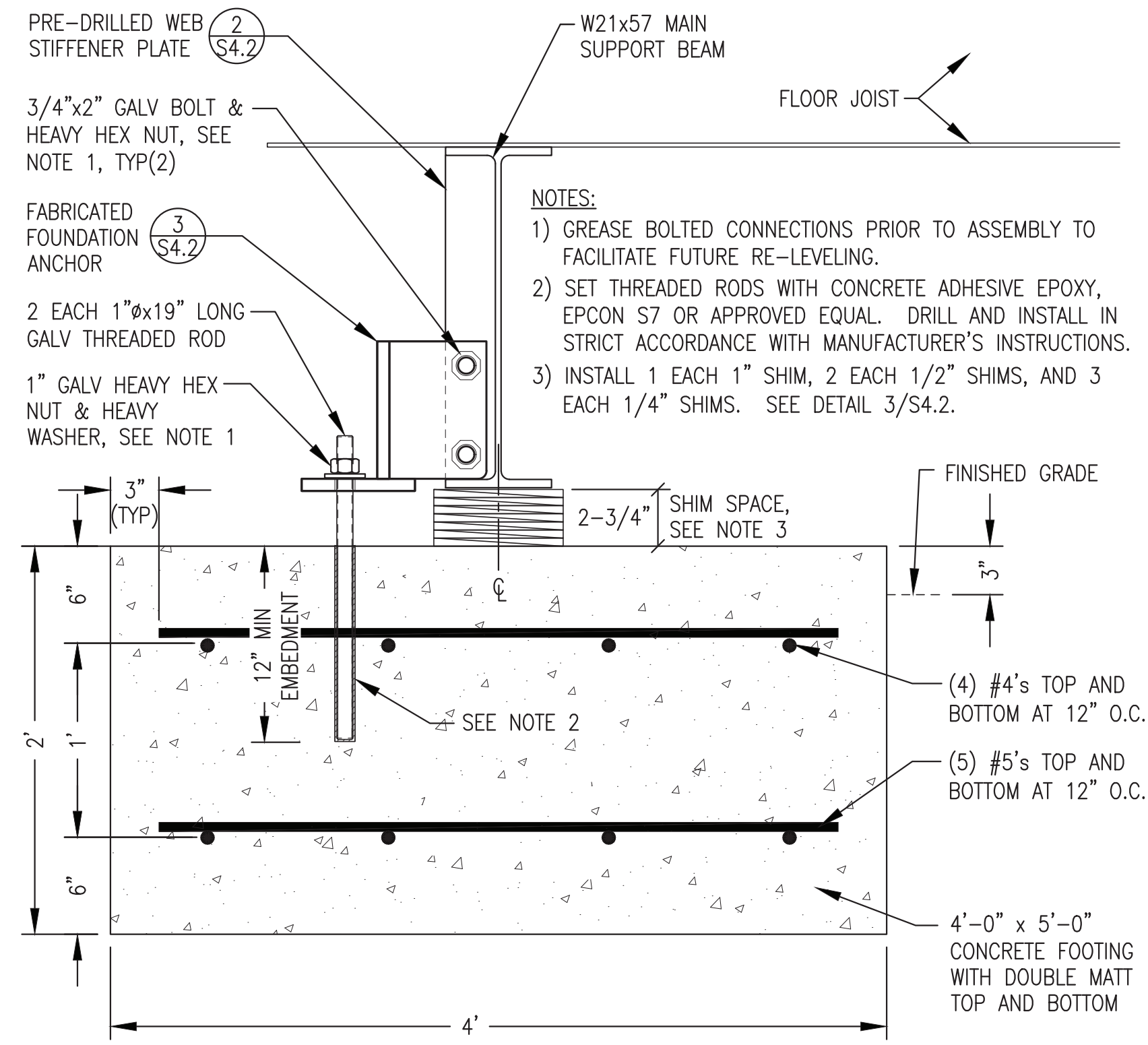
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 NOVEMBER 2021



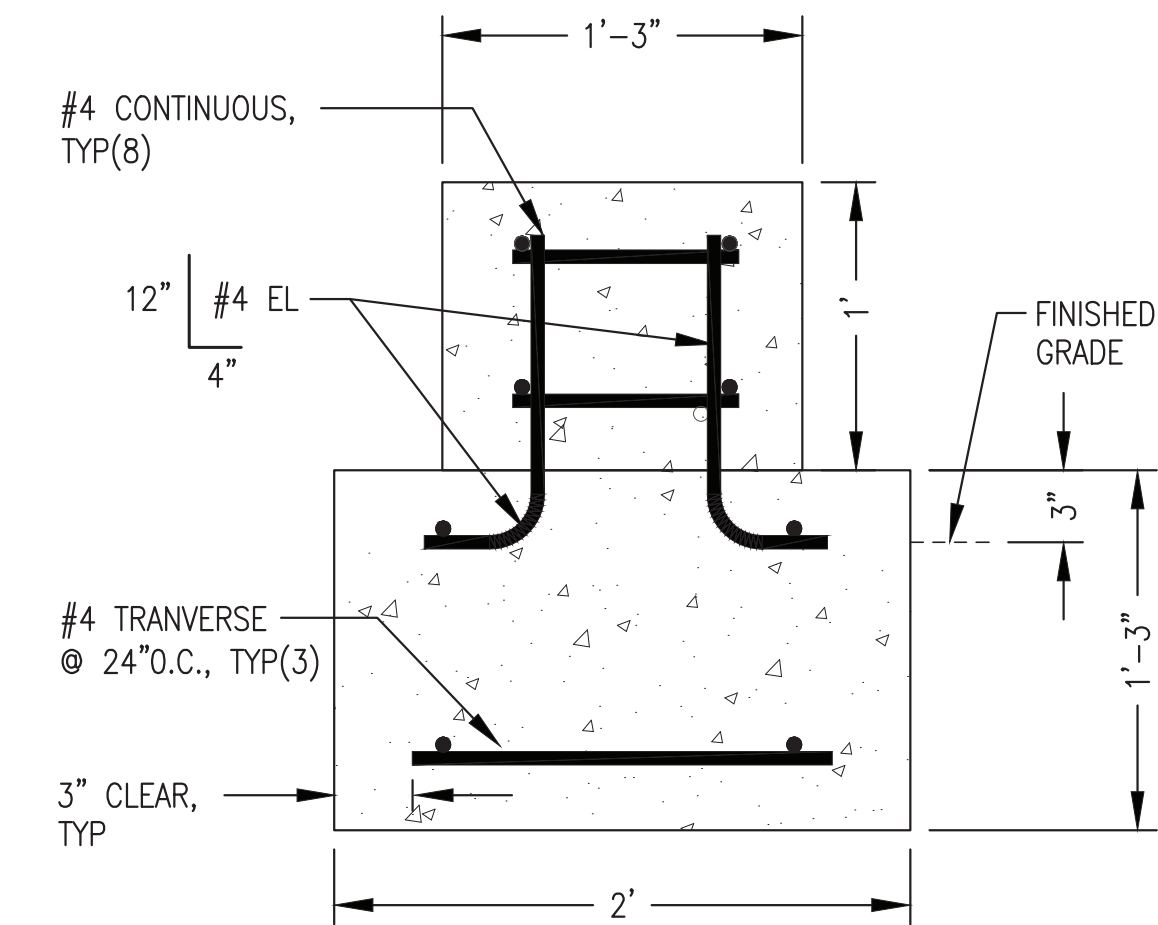
 	
PROJECT: VENETIE POWER SYSTEM UPGRADE	
TITLE: FOUNDATION PLAN, CODE ANALYSIS, & STRUCTURAL NOTES	
DRAWN BY: JTD DESIGNED BY: DGT/BCG FILE NAME: VEN PP A&S PROJECT NUMBER:	SCALE: AS NOTED DATE: 11/1/21 SHEET: S1.1



1 BUILDING FOOTING PLAN
S1.2 1 1/2"=1'-0"



2 SECTION THROUGH BUILDING FOOTING
S1.2 1 1/2"=1'-0"



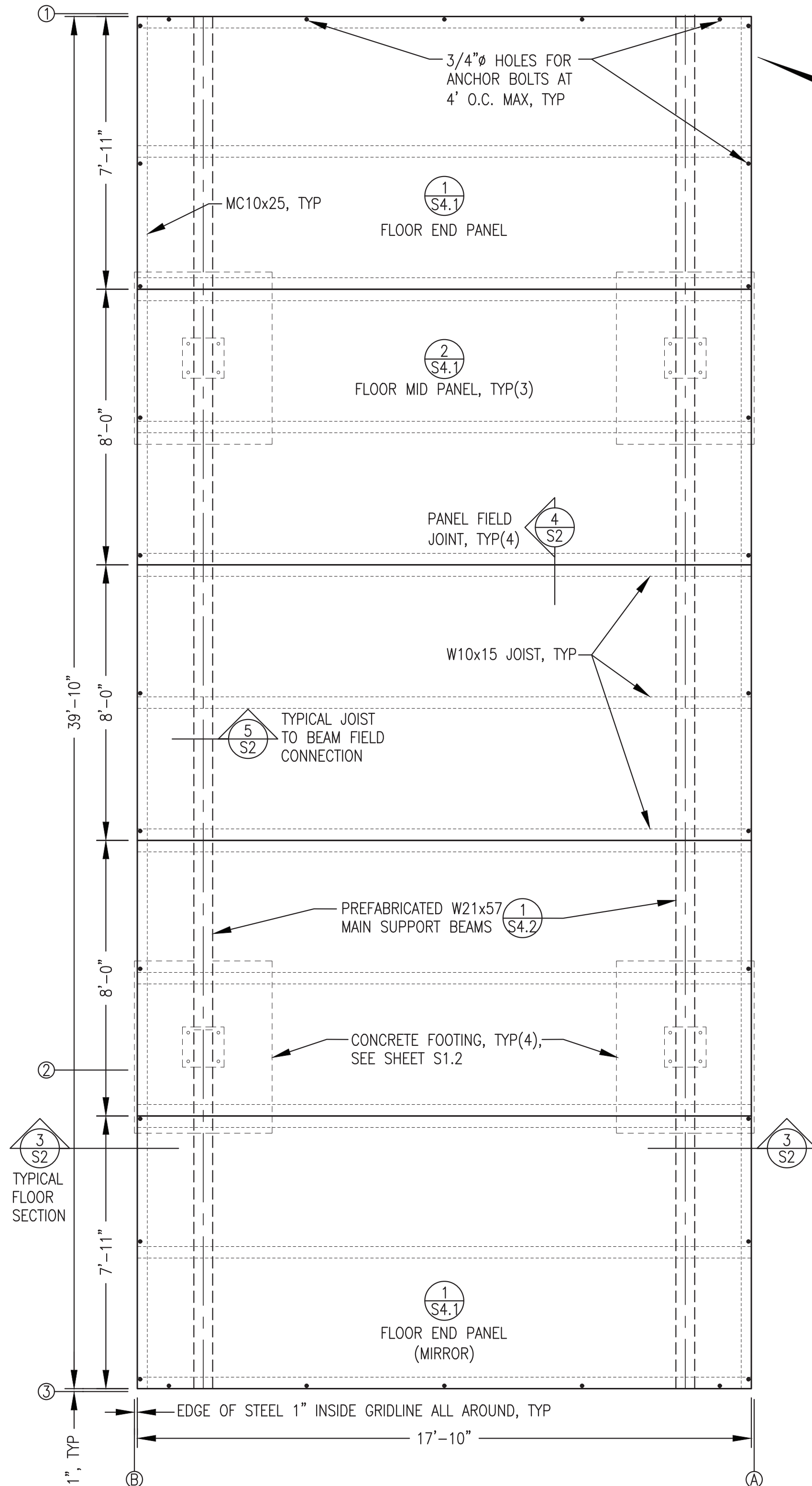
3 SECTION THROUGH RADIATOR SUPPORT FOOTING
S1.2 1 1/2"=1'-0"

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2021

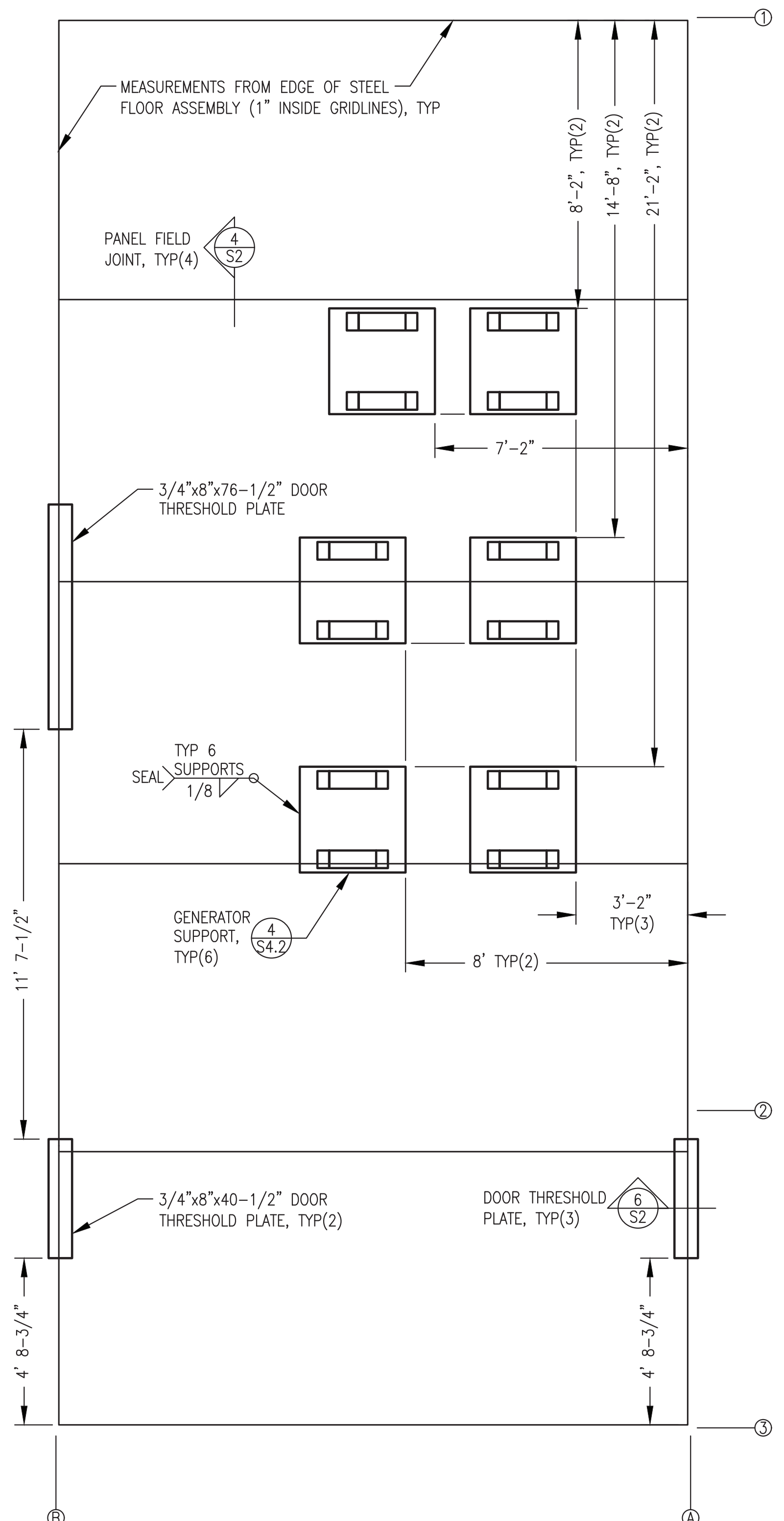


PROJECT: VENETIE POWER SYSTEM UPGRADE		
TITLE: FOUNDATION DETAILS		
DRAWN BY: JTD	DESIGNED BY: DGT/BCC	SCALE: AS NOTED
FILE NAME: VEN_PP_A&S	PROJECT NUMBER:	DATE: 11/1/21
S1.2		SHEET:

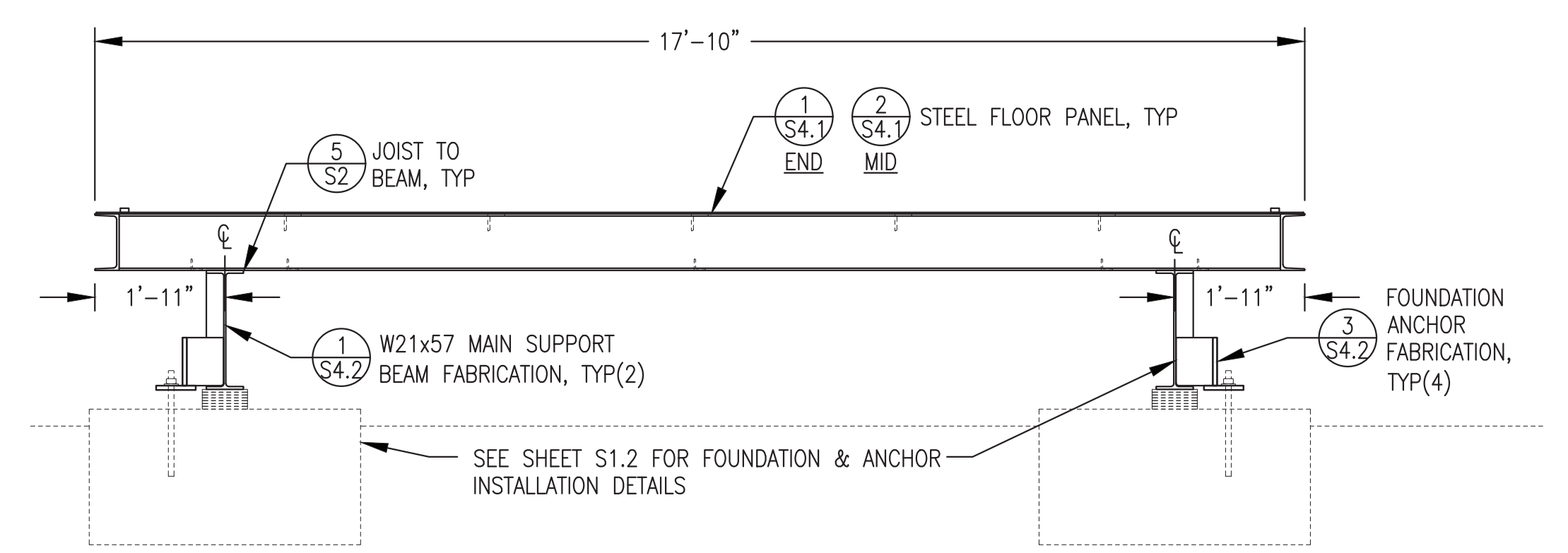
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Stassel
Engineering, Inc.
P.O. 111405, Anchorage, AK 99511 (907)349-0100



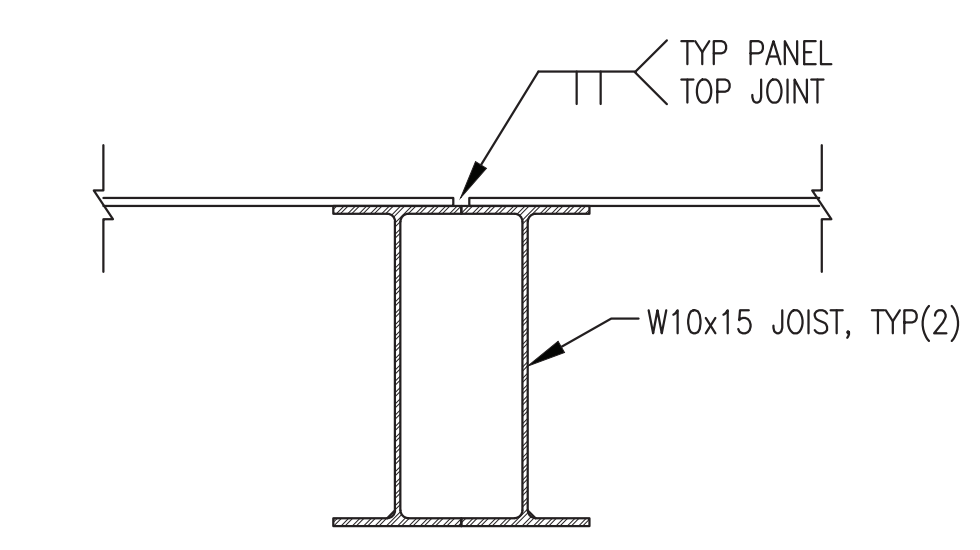
1 STEEL FLOOR PANEL ASSEMBLY PLAN
3/8"=1'-0"



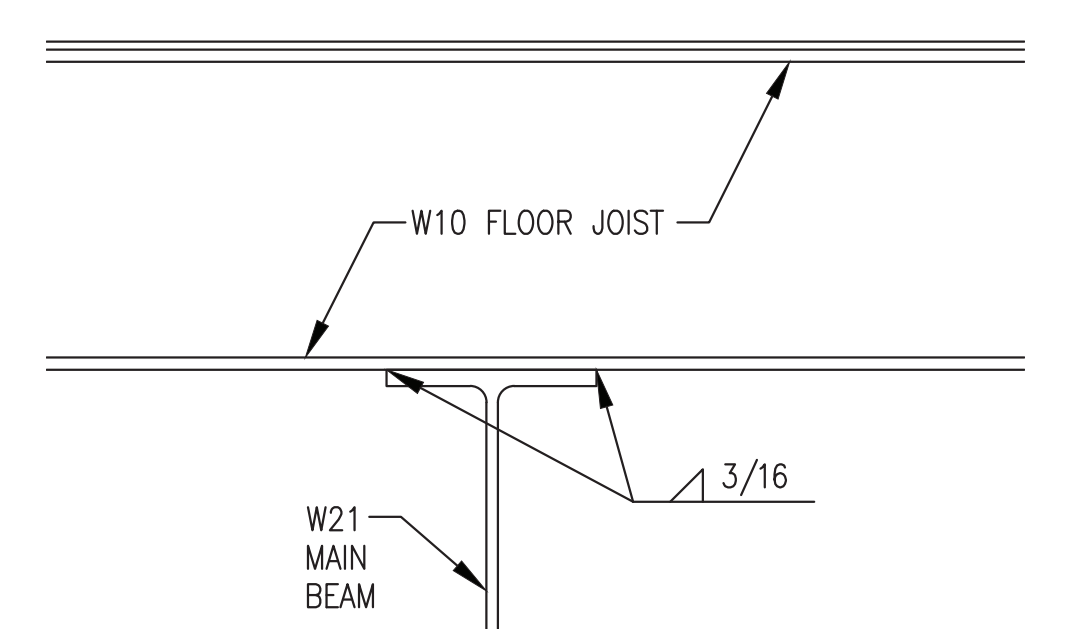
2 GENERATOR SUPPORT & THRESHOLD PLATES PLAN
3/8"=1'-0"



3 TYPICAL FLOOR SECTION
1/2"=1'-0"



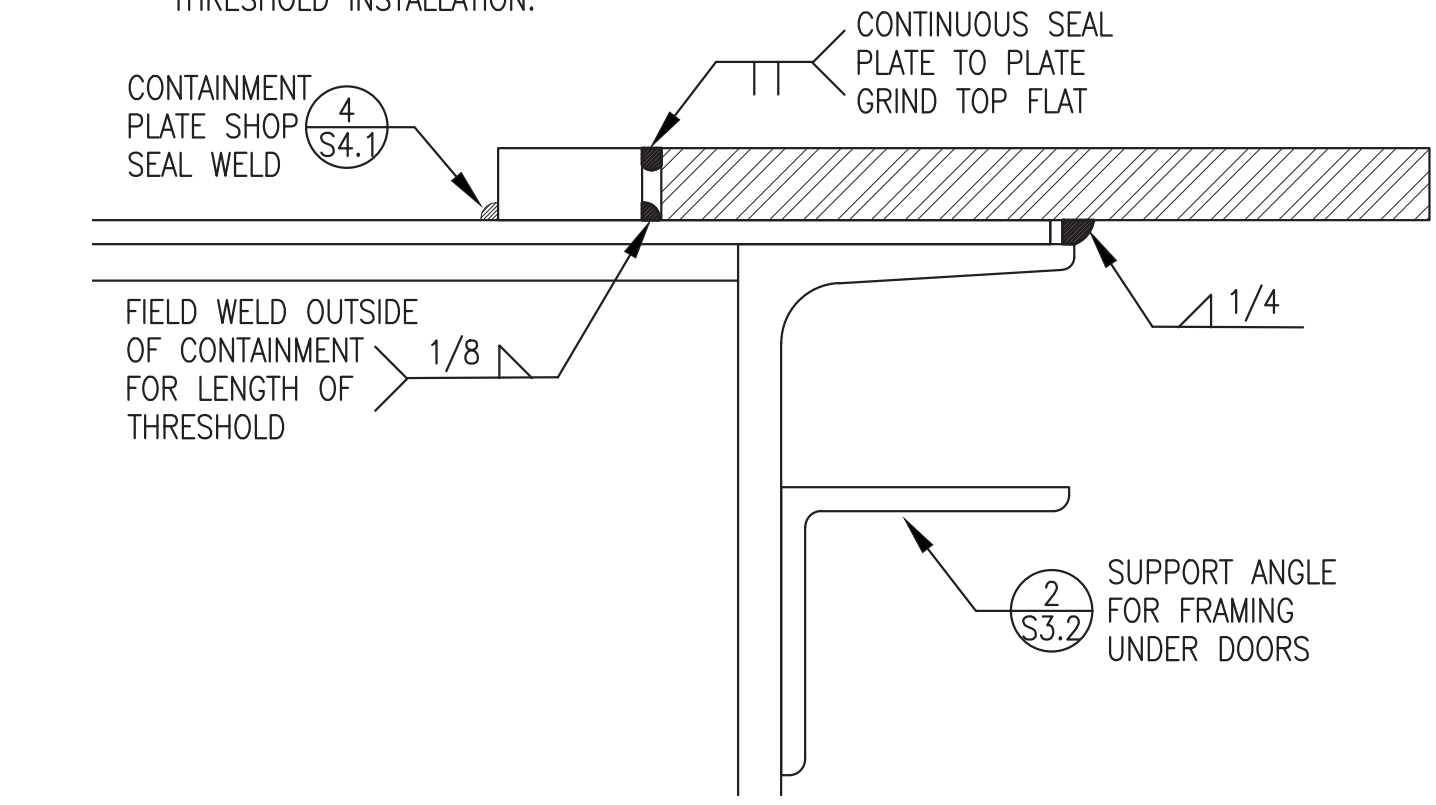
4 TYPICAL FLOOR PANEL JOINT
NO SCALE



5 TYPICAL JOIST TO BEAM CONNECTION
NO SCALE

NOTES:

- 1) AFTER GRINDING AND PREPARING THRESHOLD AREAS, WELD OUTSIDE EDGE OF CONTAINMENT PLATE TO FLOOR PLATE AS SHOWN.
- 2) REPOSITION DOOR THRESHOLD PLATES AND WELD TO FLOOR PLATE AND CONTAINMENT PLATE AS SHOWN.
- 3) GRIND TOP OF GROOVE WELD FLAT TO CREATE SMOOTH BASE FOR DOOR THRESHOLD INSTALLATION.



6 DOOR THRESHOLD PLATE INSTALLATION DETAIL
3/8"=1'-0"

- STEEL FLOOR ASSEMBLY AND PAINTING NOTES:**
- 1) SHOP FABRICATED FLOOR PANELS TO BE PROVIDED WITH EPOXY PRIME COAT ON ENTIRE FLOOR SURFACE AREA EXCEPT EDGE JOINT WELD AREAS. REMOVE ALL MASKING AND CLEAN ANY ADHESIVE FROM WELD AREA PRIOR TO WELDING & RE-PRIMING.
 - 2) MAKE ALL FLOOR PANEL JOINTS AND CONNECTIONS WITH GROOVE OR FILLET WELDS FOR CONTINUOUS SEAL.
 - 3) UPON COMPLETION OF FLOOR PANEL ASSEMBLY LAYOUT PERIMETER OF ALL GENERATOR SUPPORTS AND DOOR THRESHOLD PLATES. MARK EDGES FOR WELDING. GRIND OFF MINIMUM 2" WIDE STRIP OF PAINT ALONG ALL WELD

- 4) AFTER COMPLETING INSTALLATION OF ALL SUPPORTS AND PLATES GRIND ALL REMAINING FLOOR JOINT AND GENERATOR SUPPORT WELDS SMOOTH. GRIND/WIRE BRUSH AREAS ADJACENT TO WELDS TO REMOVE ANY RESIDUAL SLAG OR HEAT DAMAGED PRIMER. WIRE BRUSH BARE METAL AND ADJOINING PAINT AREAS AS REQUIRED TO ABRASE SURFACE FOR PRIMING. PRIME ALL PREPARED SURFACES WITH ONE COAT OF EPOXY, PPG AMERLOC 2 VOC OR APPROVED EQUAL, COLOR ANSI 61 GRAY, MINIMUM 4 MILS DRY FILM THICKNESS.

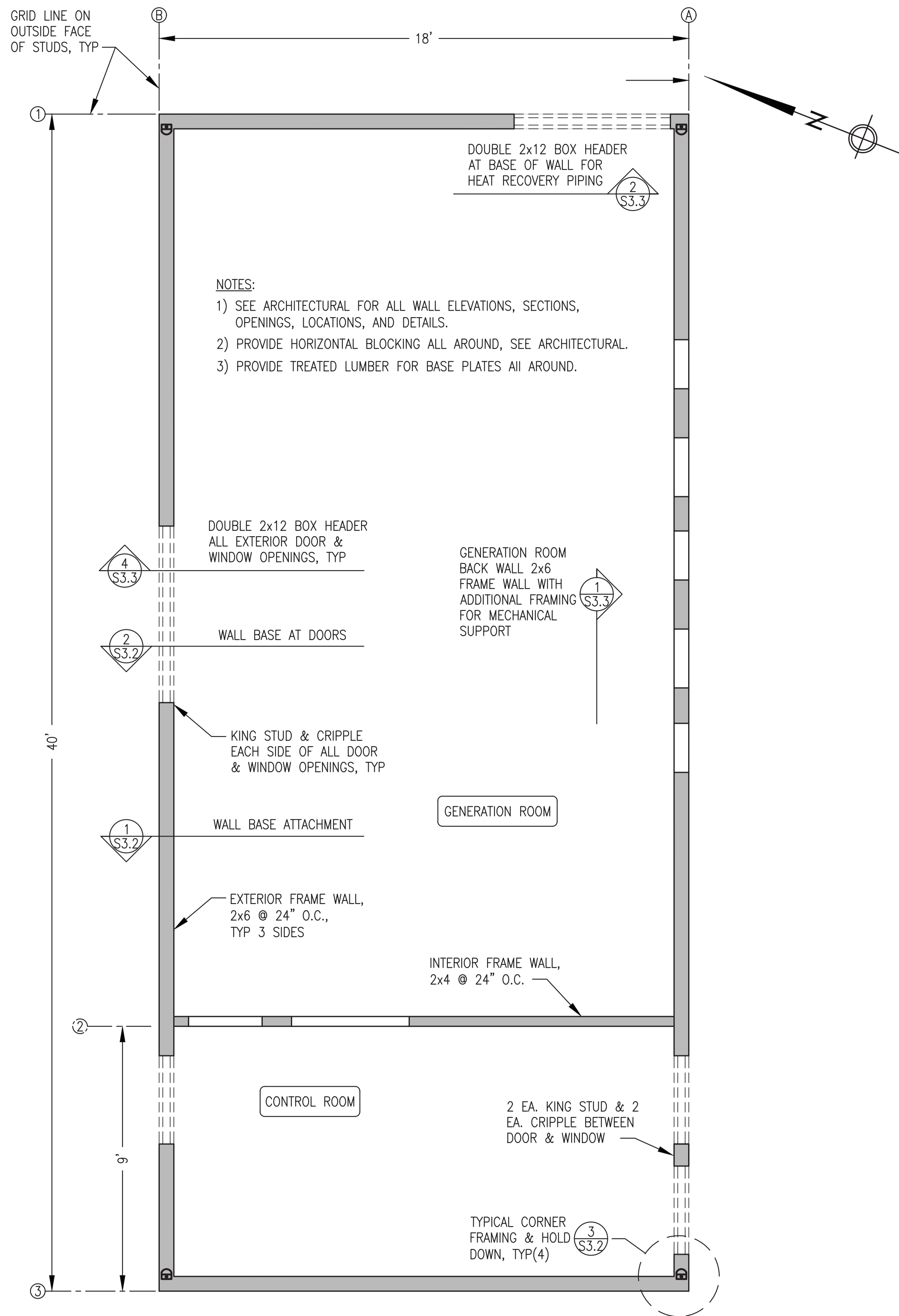
- 5) SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL EQUIPMENT, TANKS, SUPPORT RACKS, ETC.. TO BE WELDED TO STEEL FLOOR. FOLLOW PROCEDURES LISTED ABOVE FOR SURFACE PREPARATION AND RE-PRIMING OF ALL ADDITIONAL MISCELLANEOUS FLOOR WELD AREAS.
- 6) UPON PROJECT COMPLETION OF POWER PLANT CONSTRUCTION, CLEAN AND DEGREASE ENTIRE FLOOR. LIGHTLY SAND ENTIRE FLOOR TO ABRASE SURFACE FOR TOP COAT. FINISH WITH ONE OR MORE COATS OF EPOXY, PPG AMERLOC 2 VOC OR APPROVED EQUAL, COLOR ANSI 61 GRAY, MINIMUM 4 MILS DRY FILM THICKNESS.

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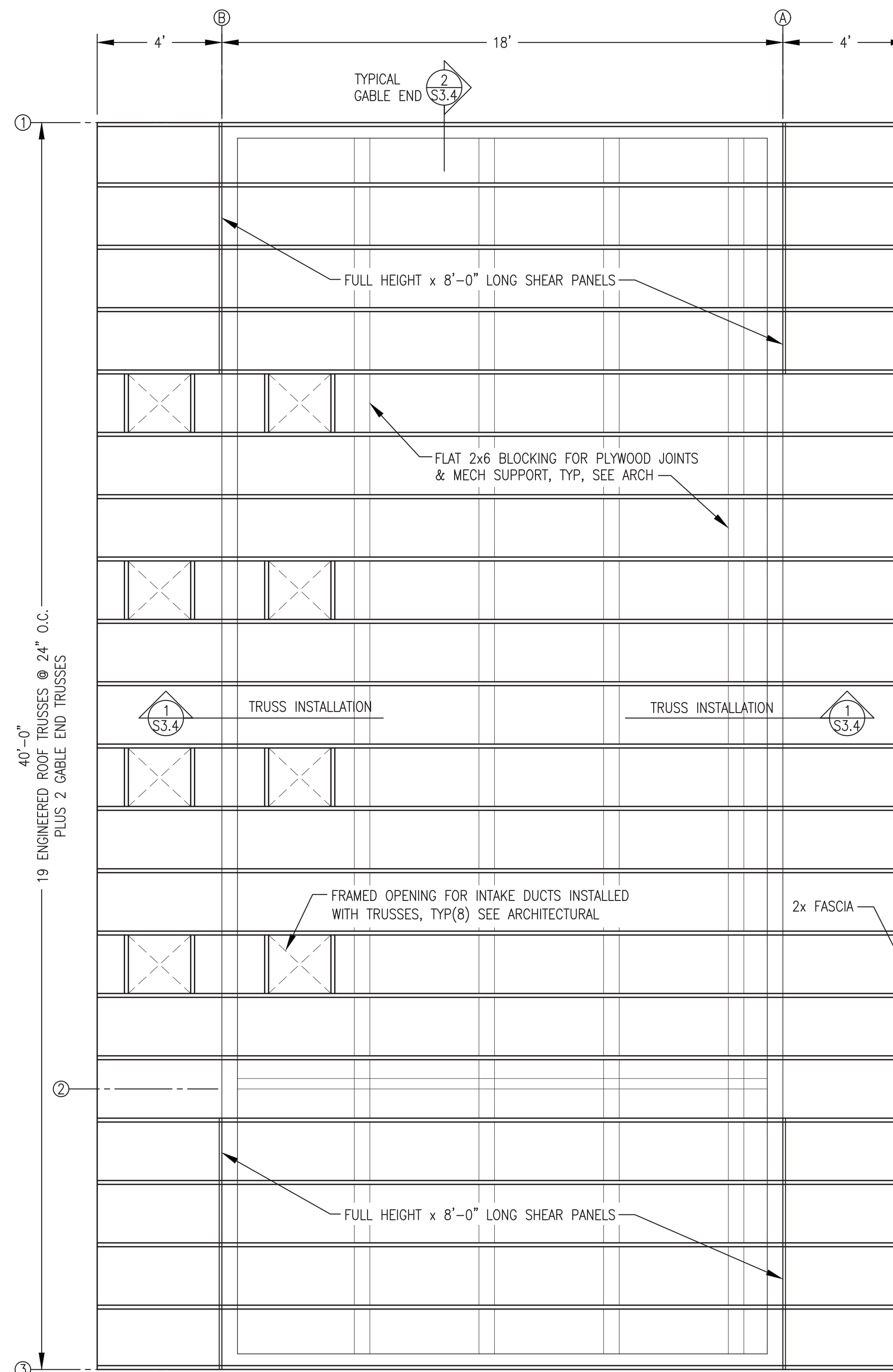


PROJECT: VENETIE POWER SYSTEM UPGRADE		SCALE: AS NOTED
TITLE: STEEL FLOOR FIELD INSTALLATION PLANS & DETAILS		DATE: 11/1/21
DRAWN BY: JTD	DESIGNED BY: DGT/BCC	FILE NAME: NIKORPSU A&S
PROJECT NUMBER: S2		

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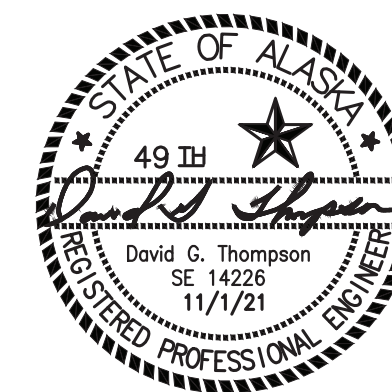




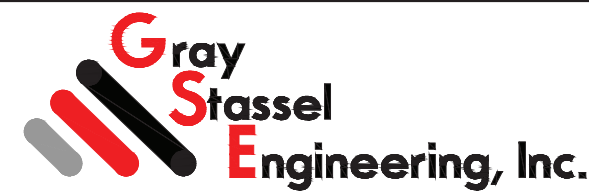
1 WALL FRAMING PLAN
 S3.1 3/8"=1'-0"

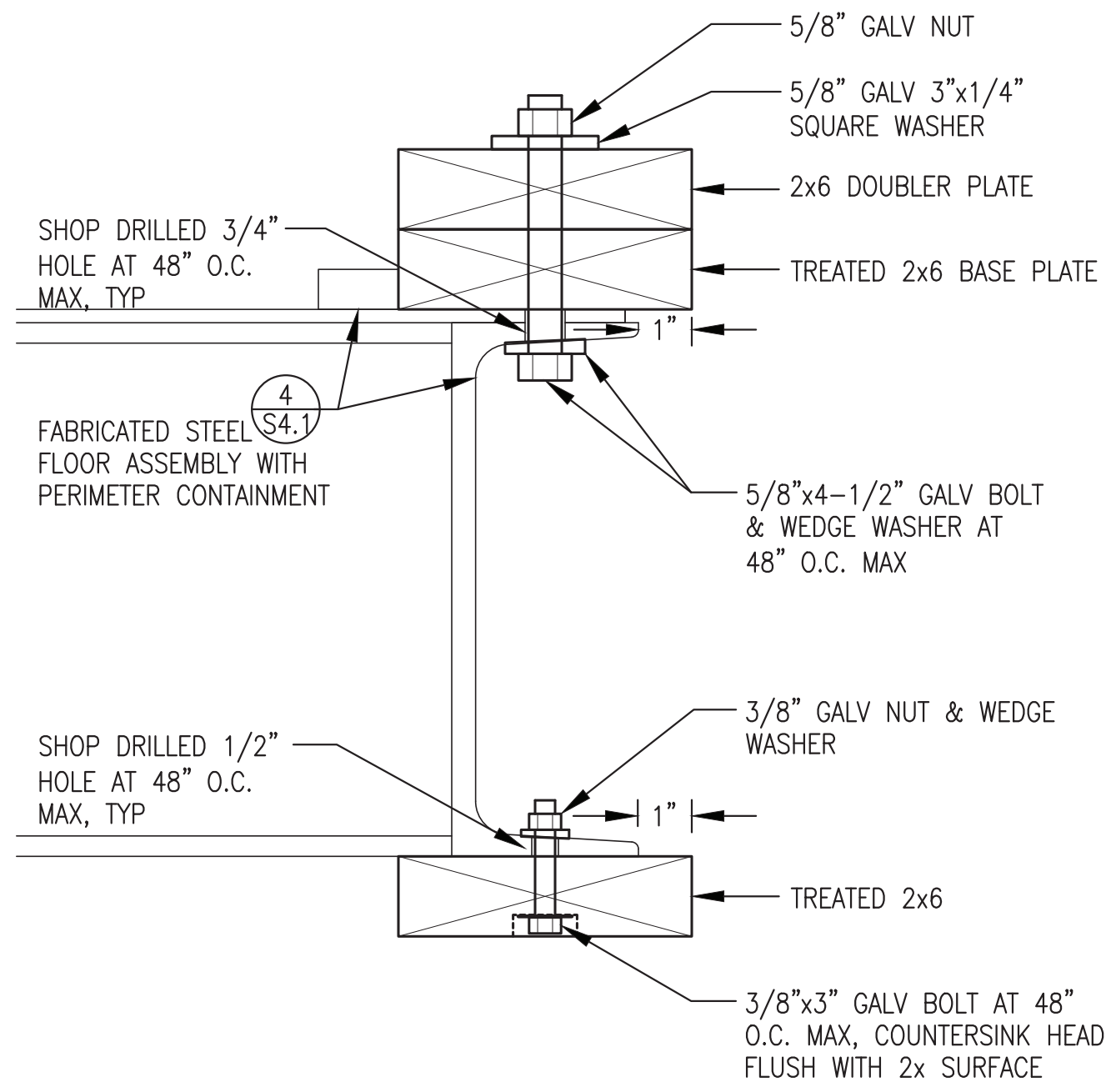


2 ROOF FRAMING PLAN
 S3.1 3/8"=1'-0"

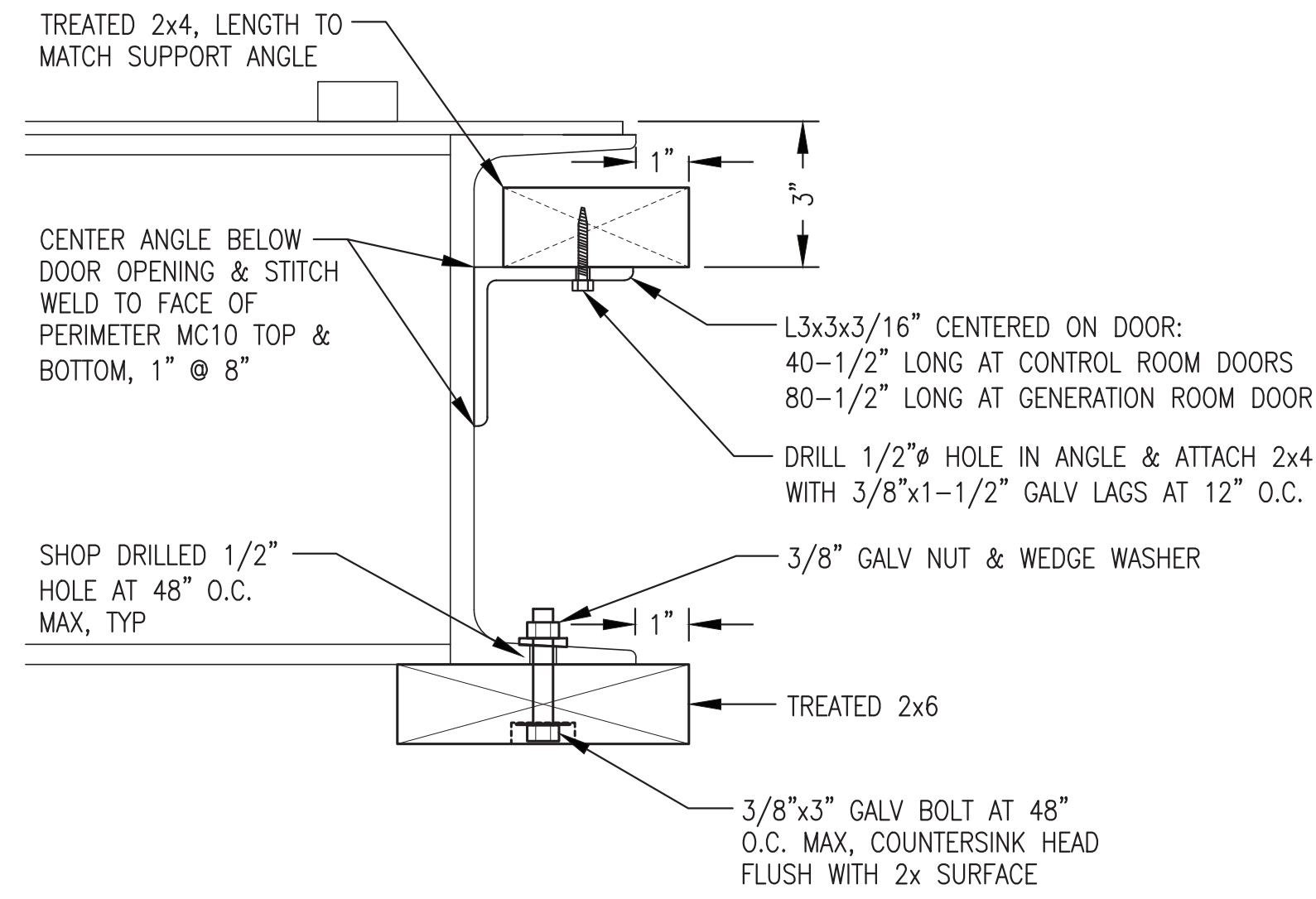
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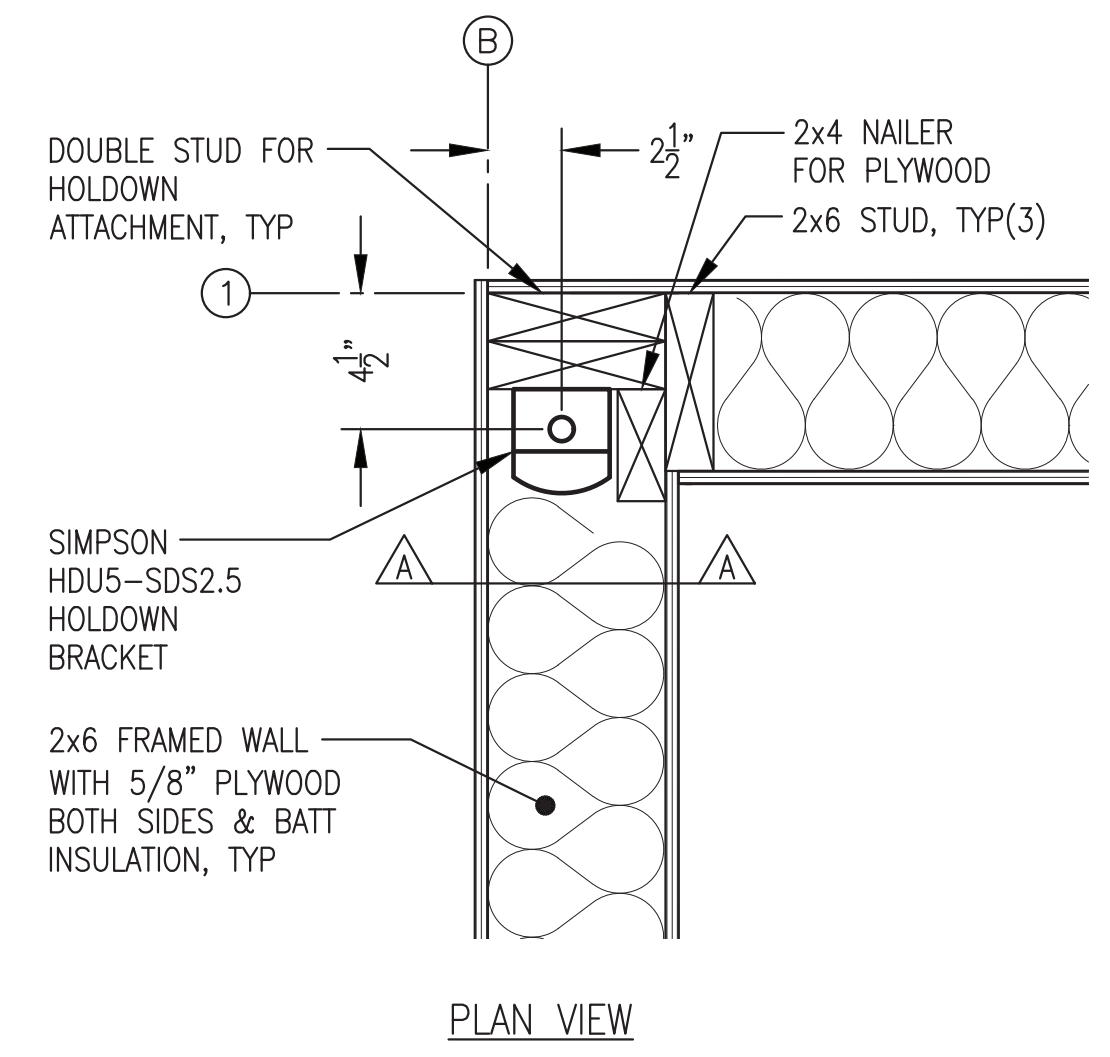
 	
PROJECT: VENETIE POWER SYSTEM UPGRADE	
TITLE: WALL & ROOF FRAMING PLANS	
	DRAWN BY: JTD DESIGNED BY: DGT/BCG FILE NAME: VEN_PP_A&S PROJECT NUMBER:
SCALE: AS NOTED	
DATE: 11/1/21	
SHEET: S3.1	
P.O. 111405, Anchorage, AK 99511 (907)349-0100	



1 WALL BASE ATTACHMENT
S3.2 NO SCALE

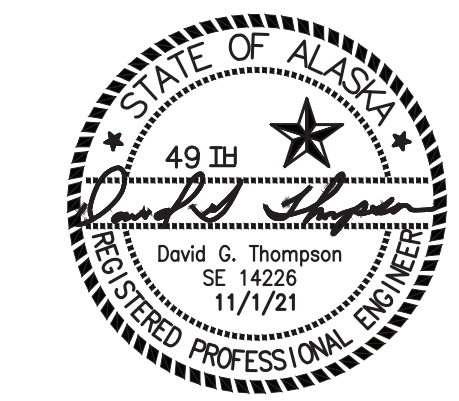


2 WALL BASE AT DOORS
S3.2 NO SCALE

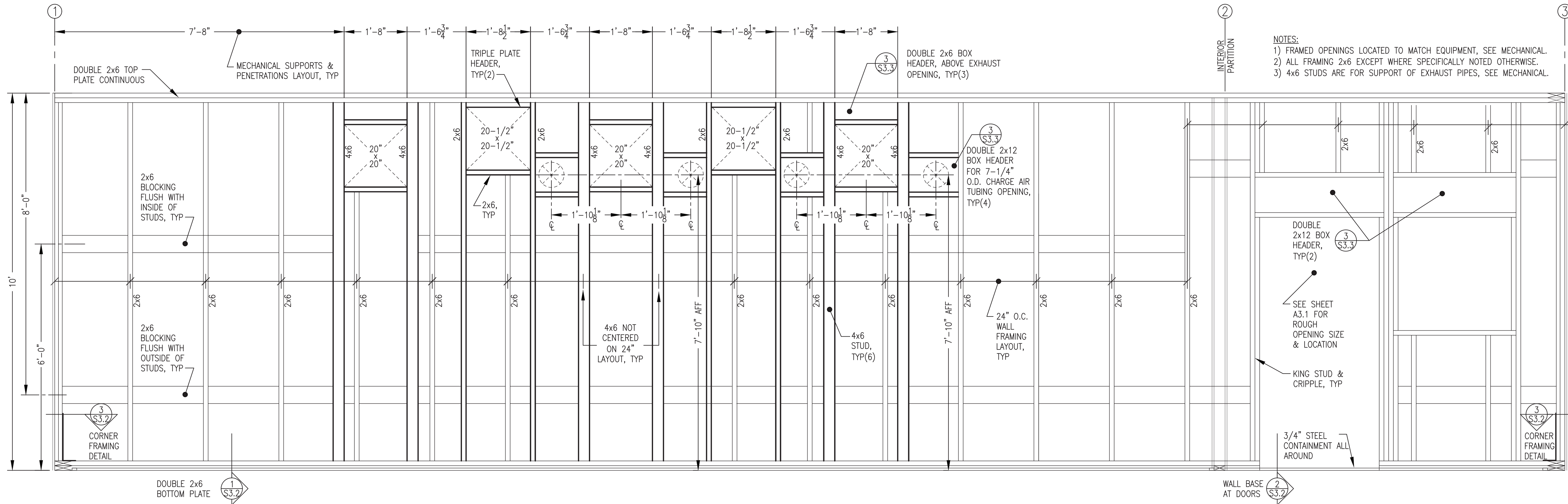


3 WALL CORNER HOLD DOWN BRACKET DETAIL
S3.2 NO SCALE

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2021

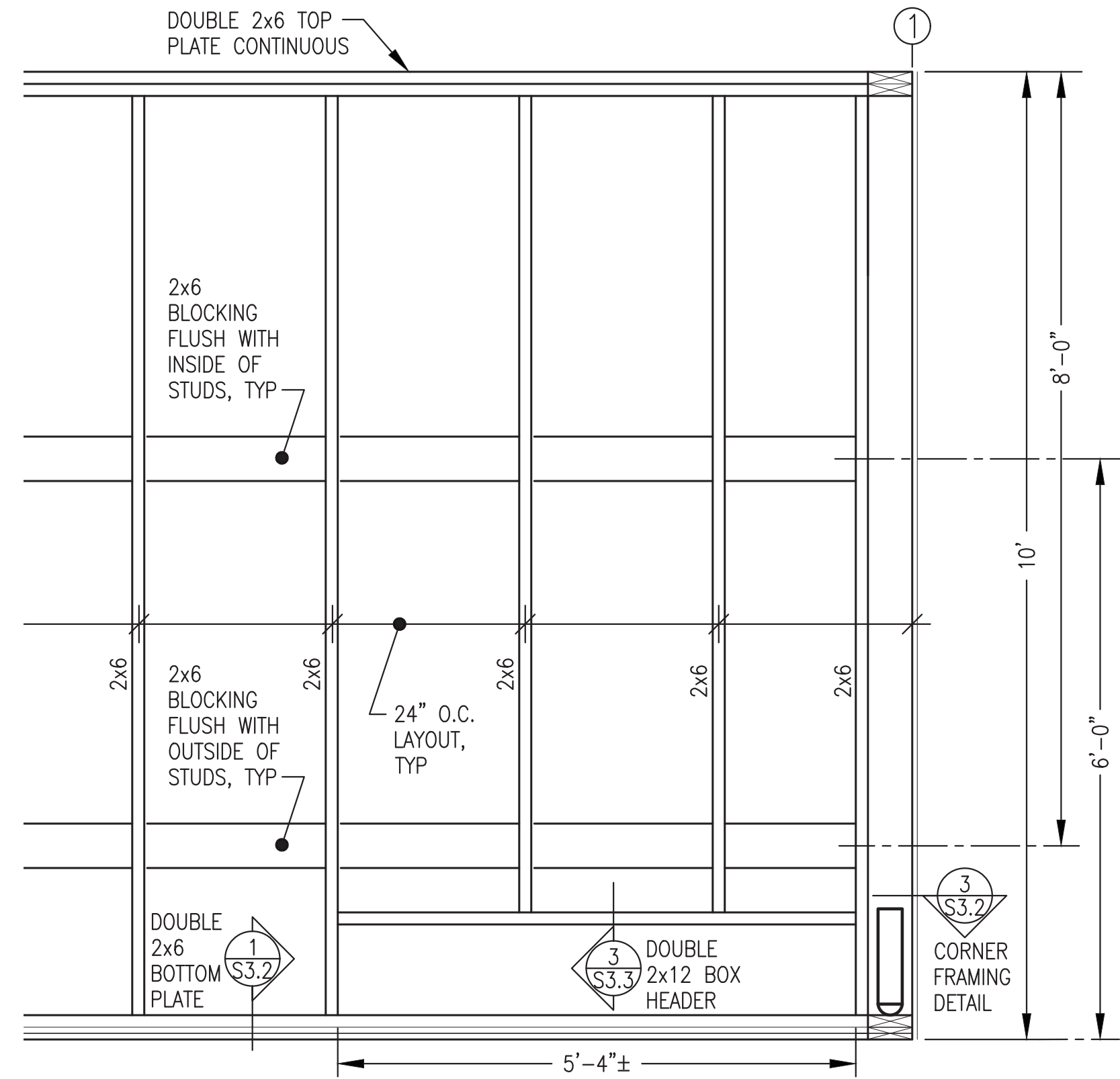


PROJECT: VENETIE POWER SYSTEM UPGRADE		
TITLE: WALL BASE & HOLD DOWN DETAILS		
 P.O. 111405, Anchorage, AK 99511 (907)349-0100	DRAWN BY: JTD	SCALE: AS NOTED
	DESIGNED BY: DGT/BCG	DATE: 11/1/21
	FILE NAME: VEN_PP_A&S	SHEET: S3.2
PROJECT NUMBER:		

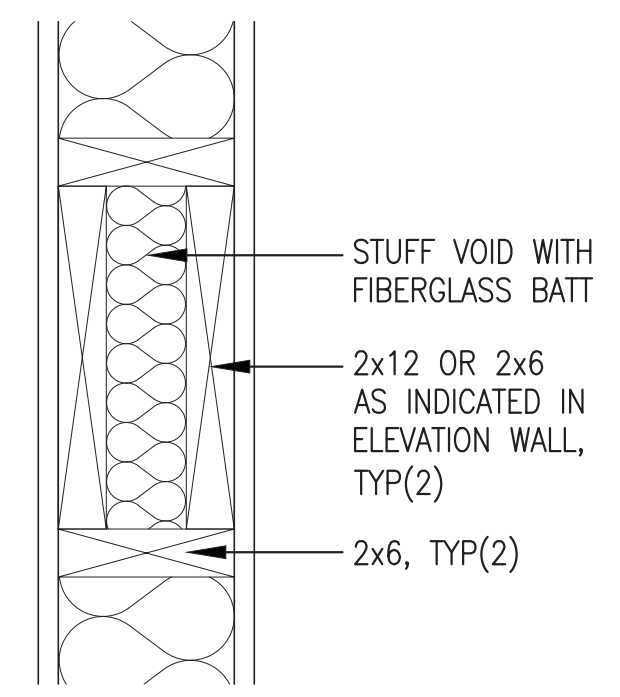


- NOTES:
- 1) FRAMED OPENINGS LOCATED TO MATCH EQUIPMENT, SEE MECHANICAL.
 - 2) ALL FRAMING 2x6 EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
 - 3) 4x6 STUDS ARE FOR SUPPORT OF EXHAUST PIPES, SEE MECHANICAL.

1 GENERATION ROOM BACK WALL MECHANICAL SUPPORT FRAMING ELEVATION
 S3.3 3/4"=1'-0"



2 GENERATION ROOM END WALL PARTIAL FRAMING ELEVATION
 S3.3 3/4"=1'-0"



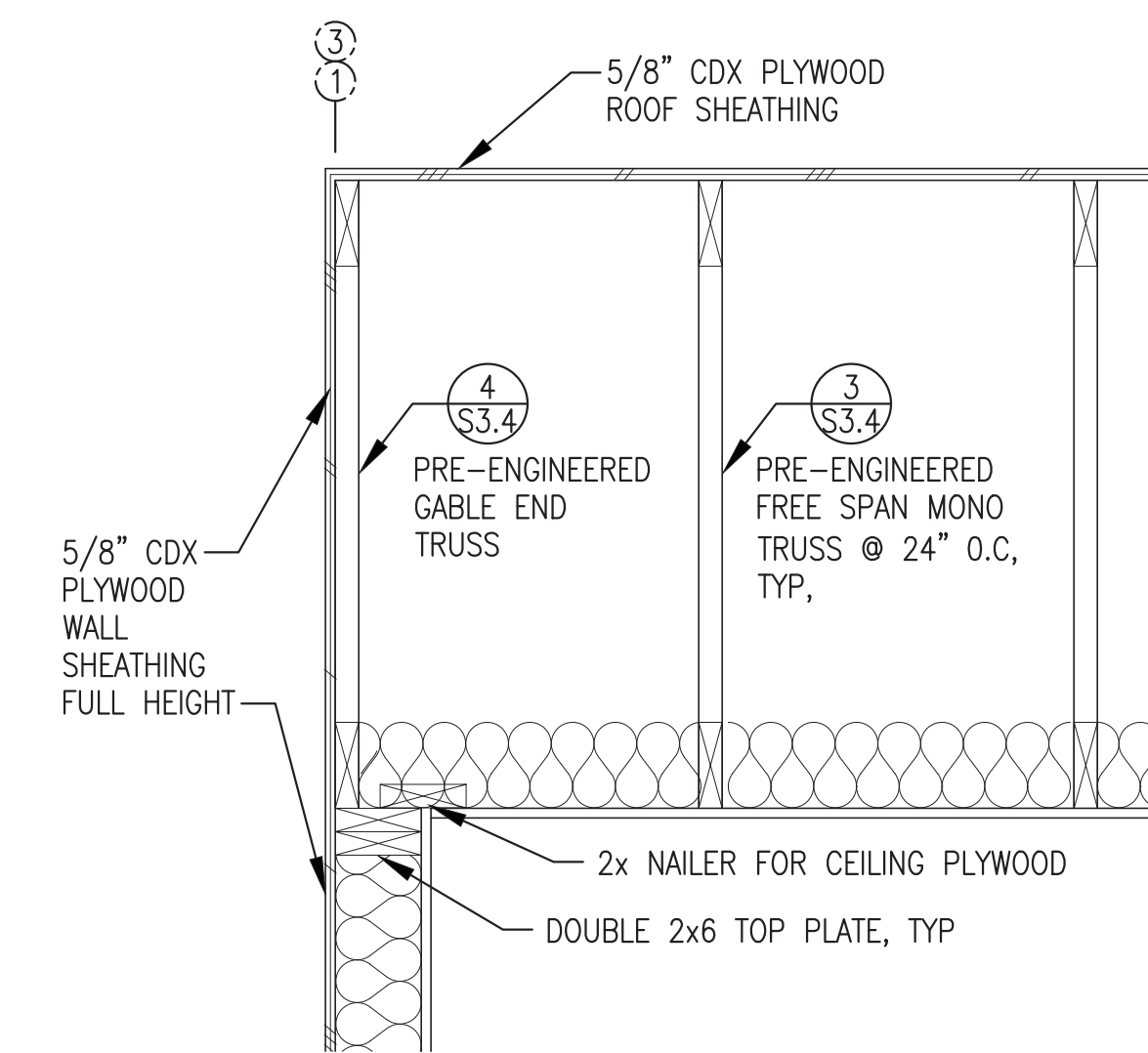
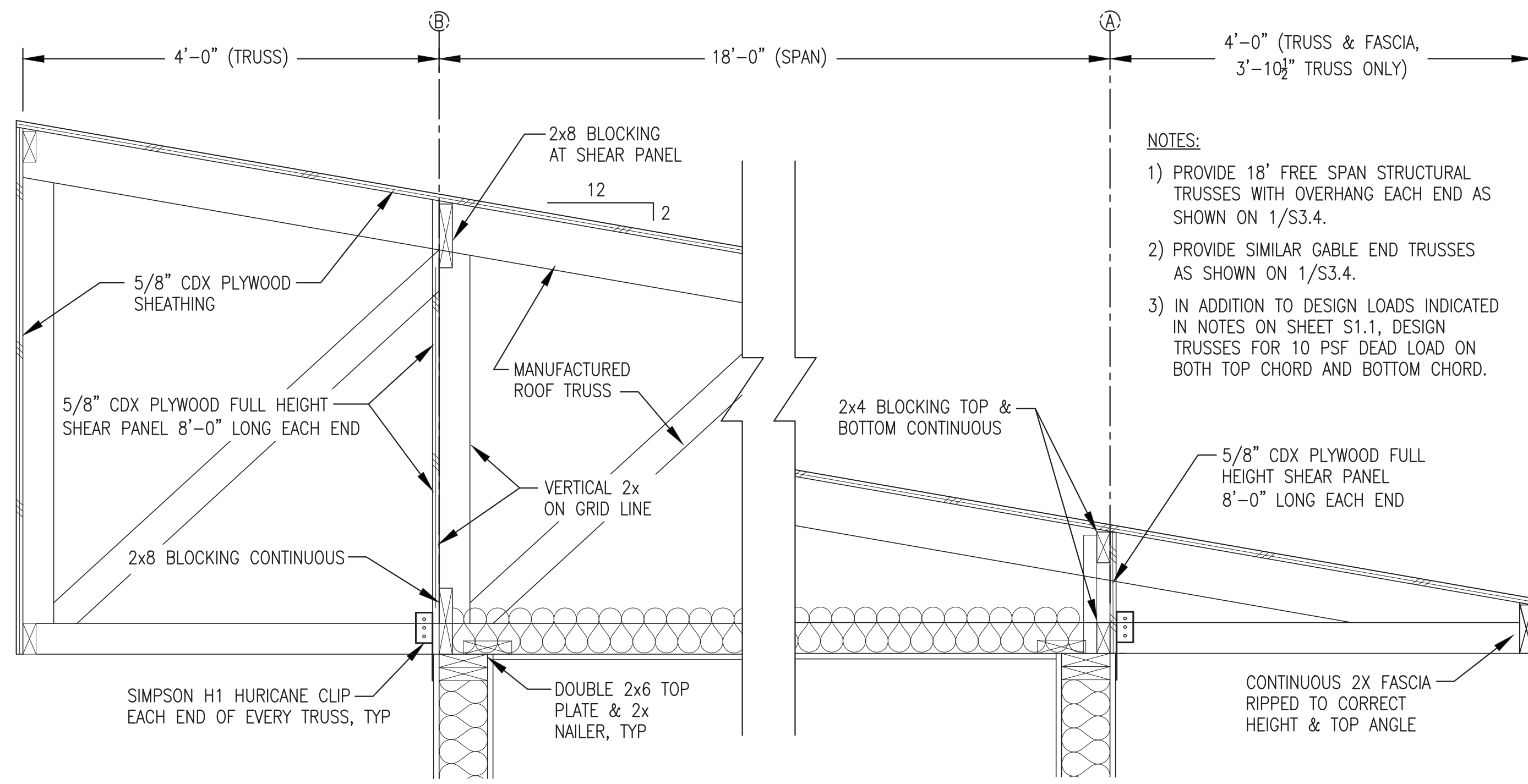
3 BOX HEADER
 S3.3 NO SCALE

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 2021



PROJECT:		VENETIE POWER SYSTEM UPGRADE	
TITLE:		WALL FRAMING DETAILS	
DRAWN BY: JTD	SCALE: AS NOTED	DESIGNED BY: DGT/BCG	DATE: 11/1/21
FILE NAME: VEN_PP_A&S	SHEET:	S3.3	
PROJECT NUMBER:			

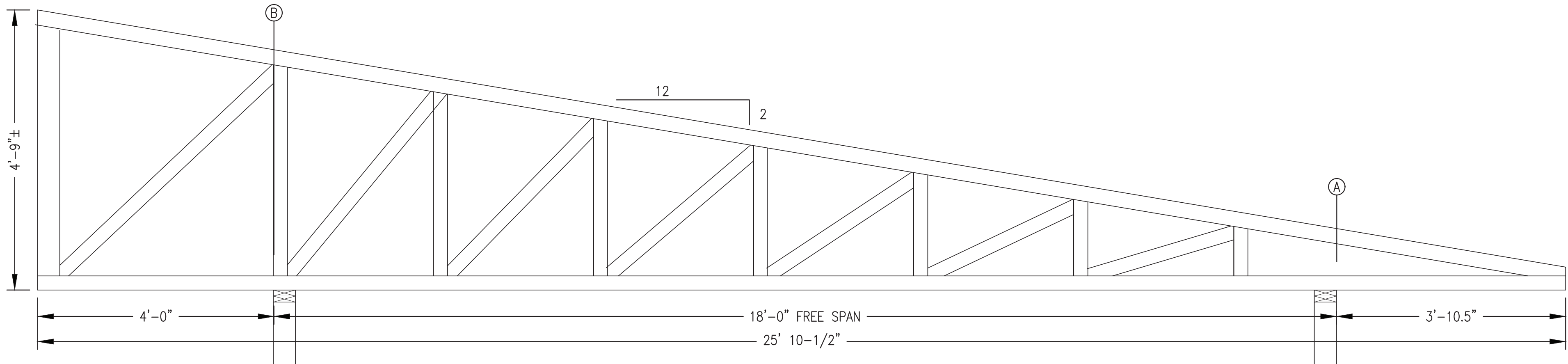




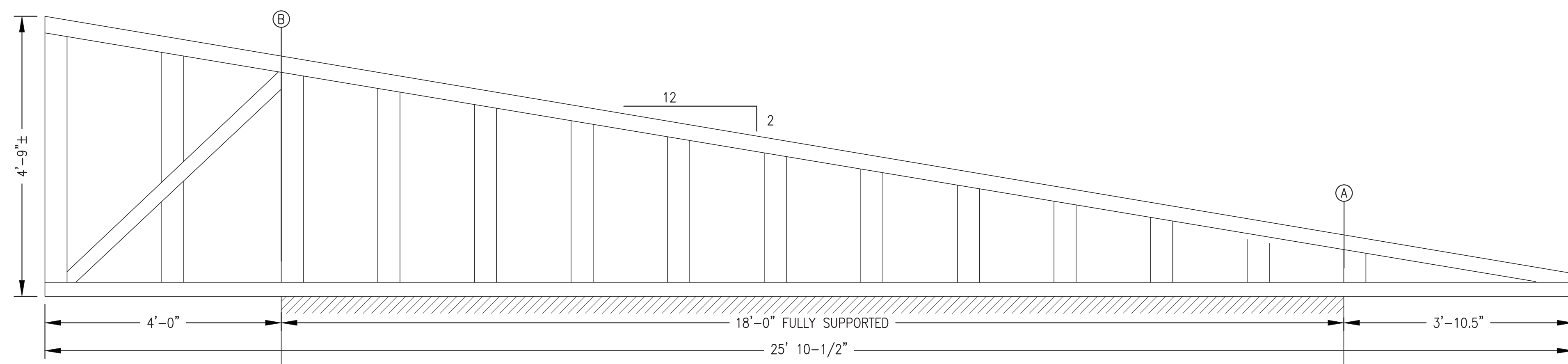
- NOTES:**
- 1) PROVIDE 19 EACH 18' FREE SPAN STRUCTURAL TRUSSES WITH OVERHANG EACH END AS SHOWN IN DETAIL 1/S3.4.
 - 2) PROVIDE 2 EACH SIMILAR GABLE END TRUSSES WITH VERTICAL MEMBERS AT 24" O.C. MIN AS SHOWN IN DETAIL 2/S3.4.
 - 3) IN ADDITION TO DESIGN LOADS INDICATED IN NOTES ON SHEET S1, DESIGN TRUSSES FOR 10 PSF DEAD LOAD ON BOTH TOP CHORD AND BOTTOM CHORD.

1 TYPICAL TRUSS INSTALLATION
S3.4 NO SCALE

2 GABLE DETAIL
S3.4 NO SCALE

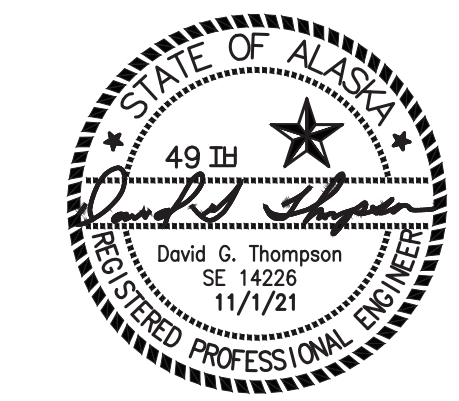




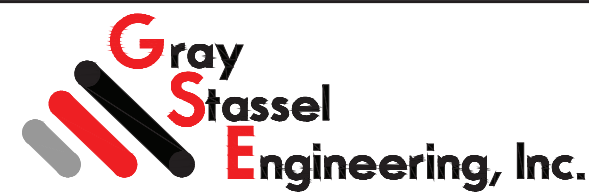
3 TYPICAL ENGINEERED FREE SPAN MONO TRUSS LAYOUT
S3.4 NO SCALE

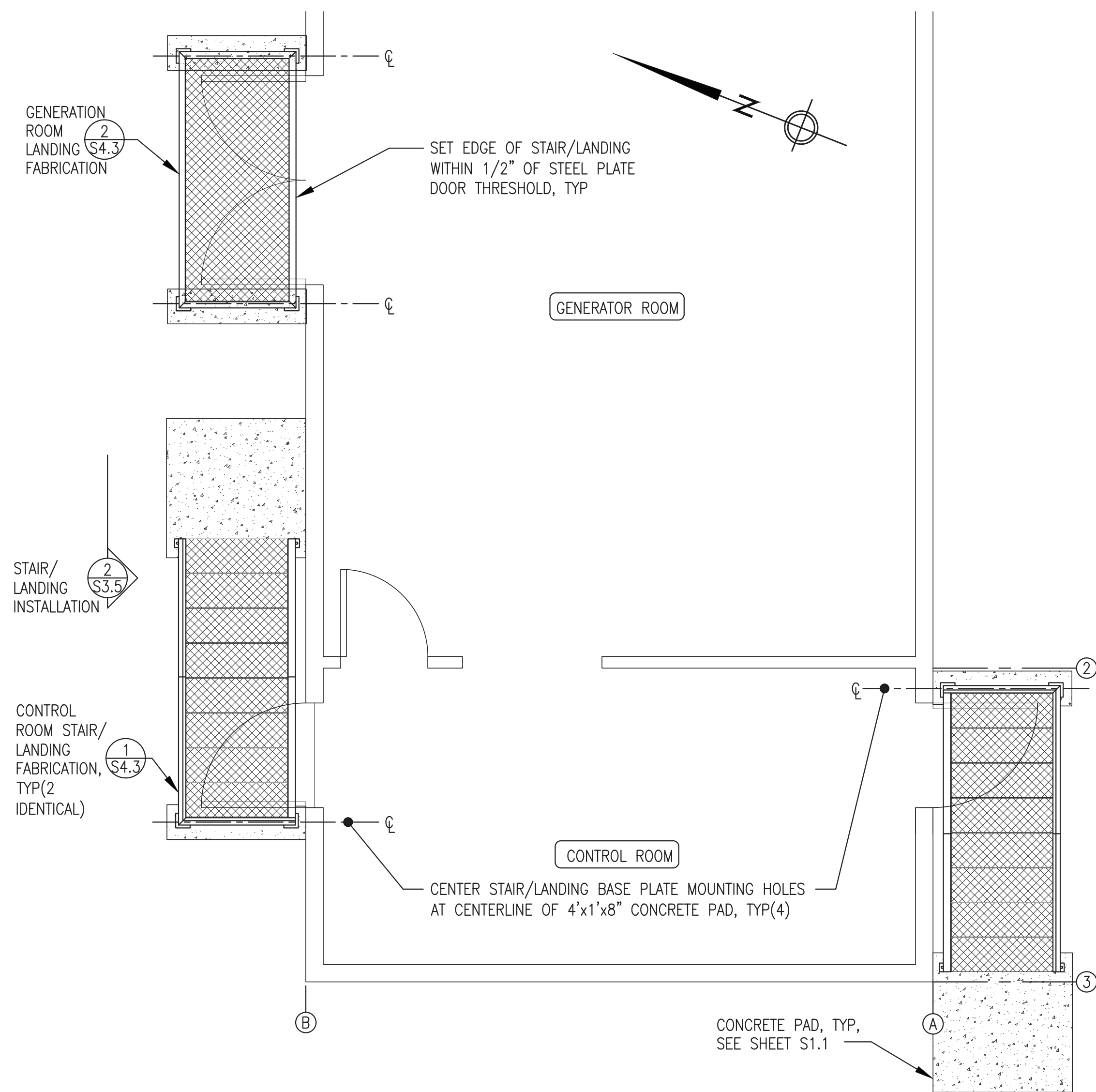


4 TYPICAL FULLY SUPPORTED GABLE END TRUSS LAYOUT
S3.4 NO SCALE

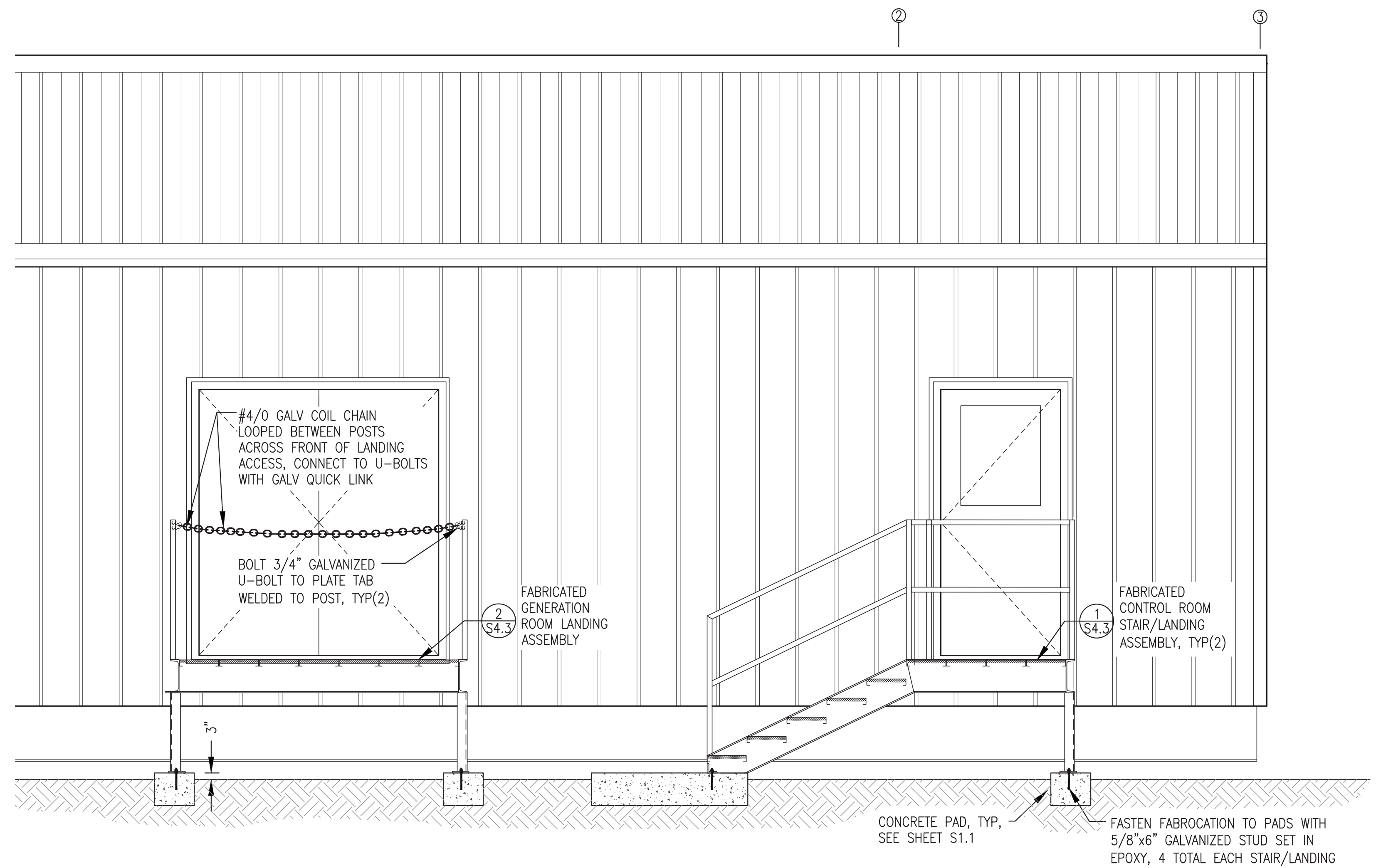
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NOVEMBER
2021



 	
PROJECT: VENETIE POWER SYSTEM UPGRADE	
TITLE: ROOF FRAMING DETAILS	
	DRAWN BY: JTD DESIGNED BY: DGT/BCG FILE NAME: VEN_PP_A&S PROJECT NUMBER:
P.O. 111405, Anchorage, AK 99511 (907)349-0100	SCALE: AS NOTED DATE: 11/1/21 SHEET: S3.4

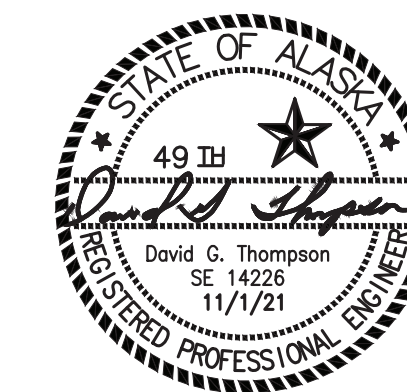


1 STAIR/LANDING INSTALLATION PLAN
3/8"=1'-0"



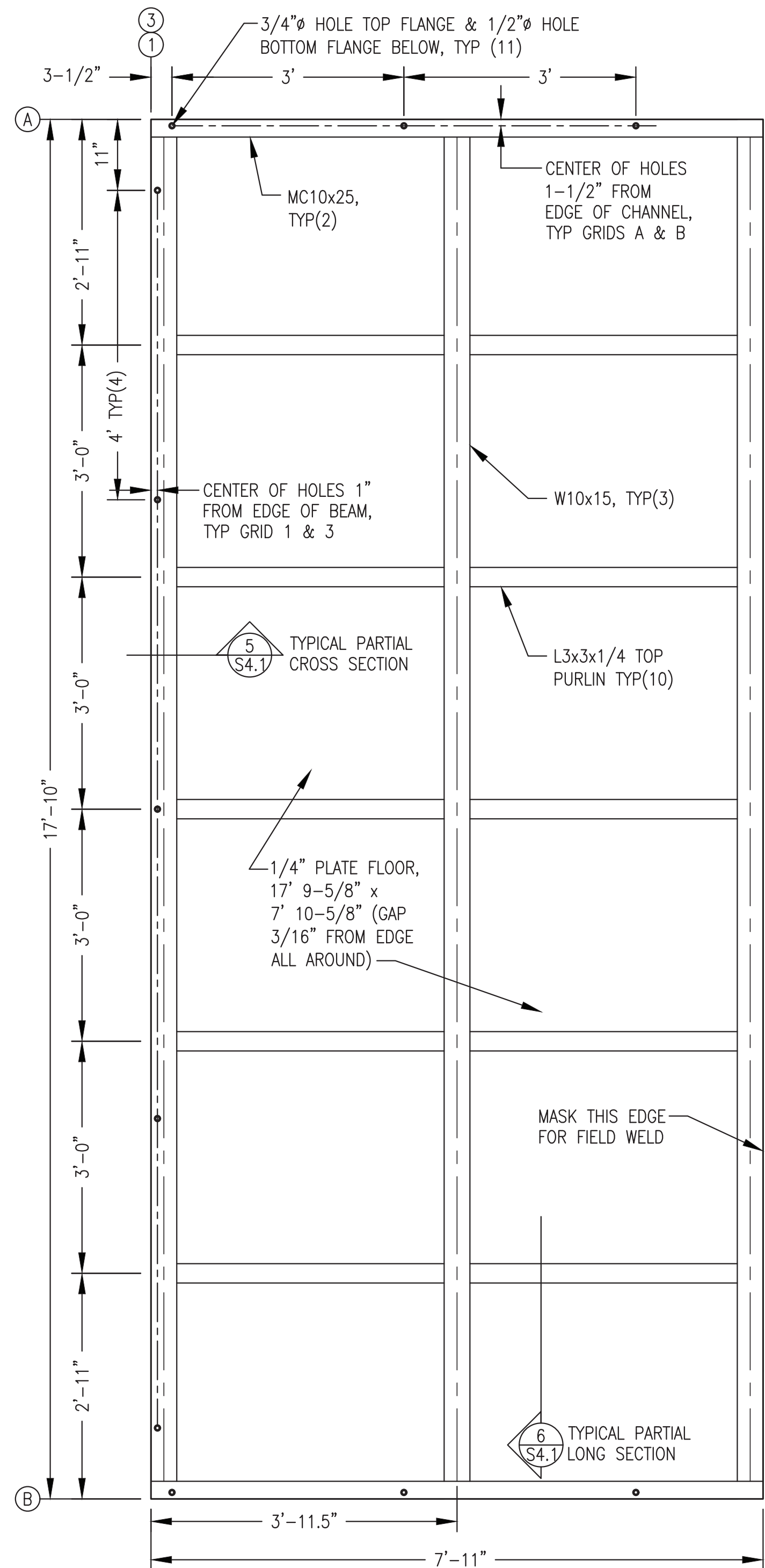
2 STAIR/LANDING INSTALLATION ELEVATION
1/2"=1'-0"

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2021

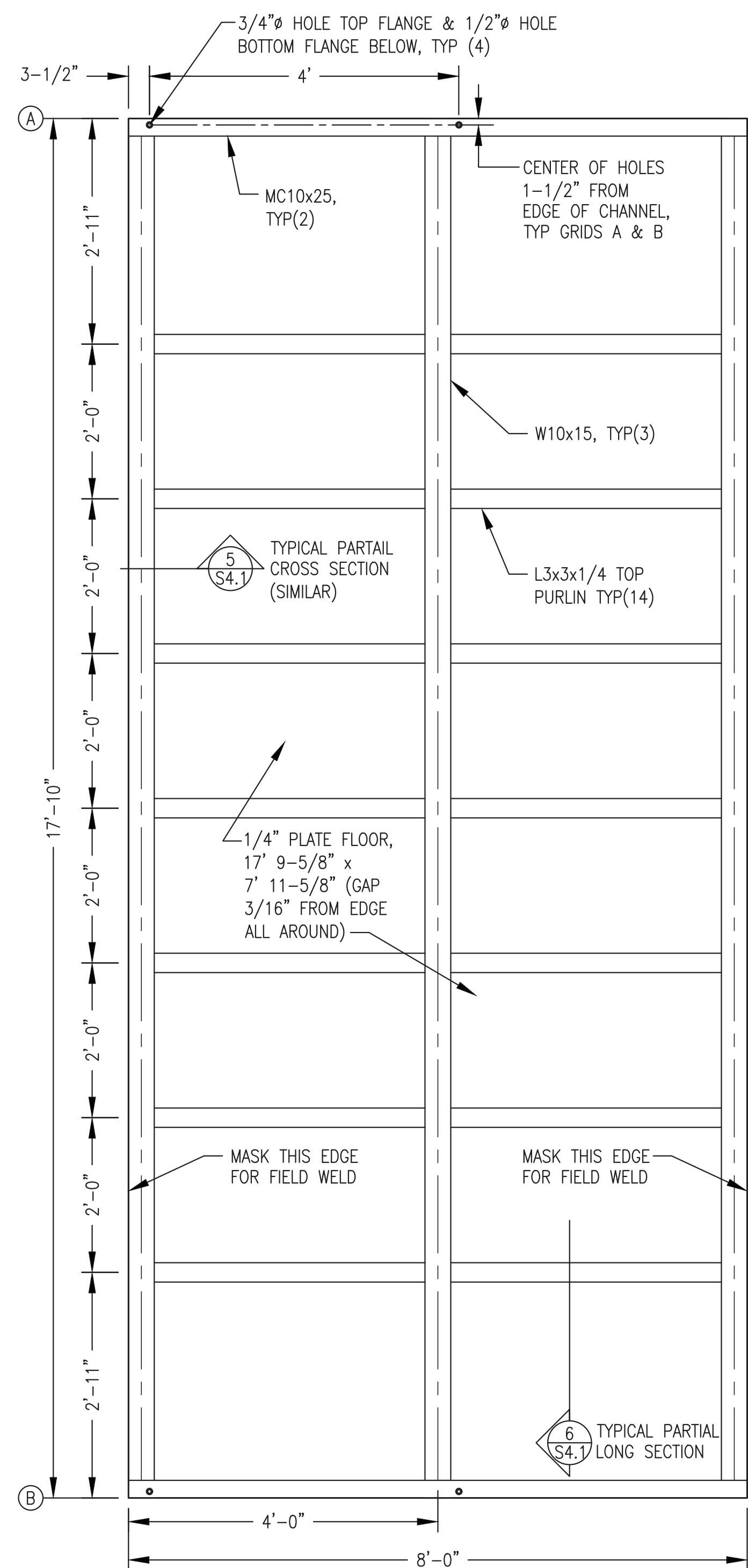


PROJECT: VENETIE POWER SYSTEM UPGRADE		
TITLE: STAIR/LANDING INSTALLATION PLAN & ELEVATION		
DRAWN BY: JTD	SCALE: AS NOTED	DATE: 11/1/21
DESIGNED BY: DGT/BCG	FILE NAME: VEN_PP_A&S	SHEET: S3.5
PROJECT NUMBER:		

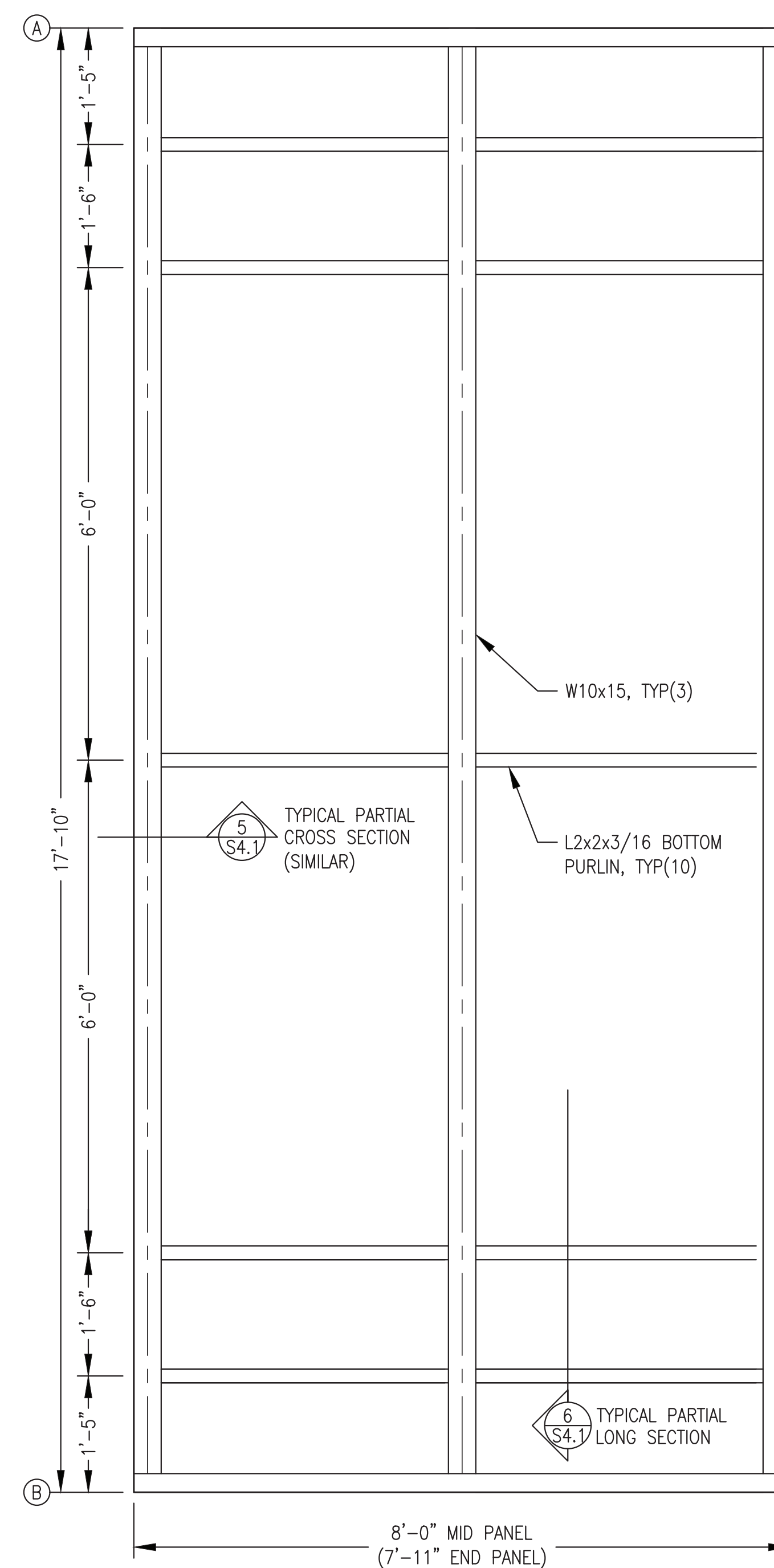
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1 END PANEL WITH TOP PURLIN LAYOUT (TWO MIRROR IMAGE)
S4.1 3/4"=1'-0"



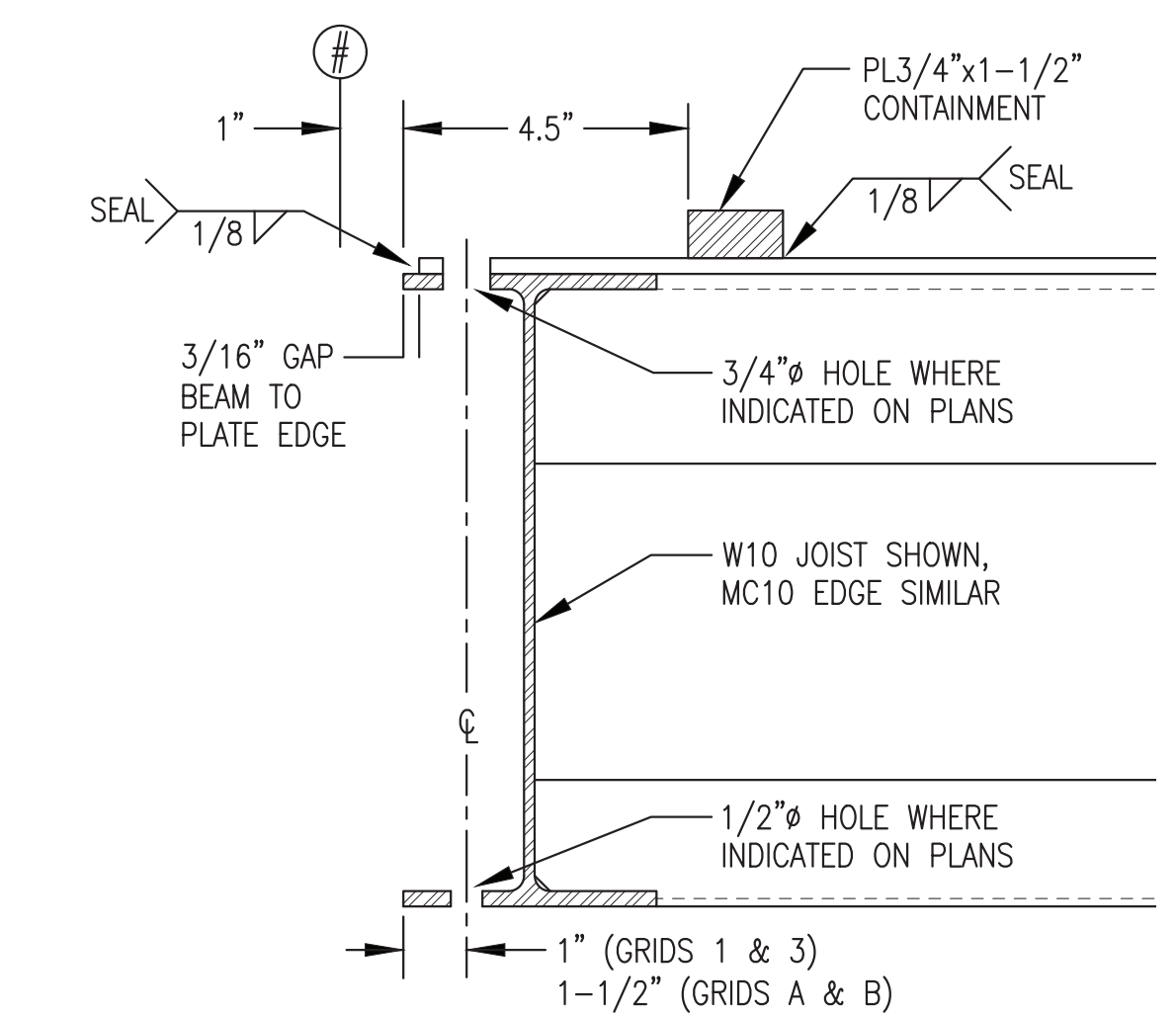
2 MID PANEL WITH TOP PURLIN LAYOUT (THREE IDENTICAL)
S4.1 3/4"=1'-0"



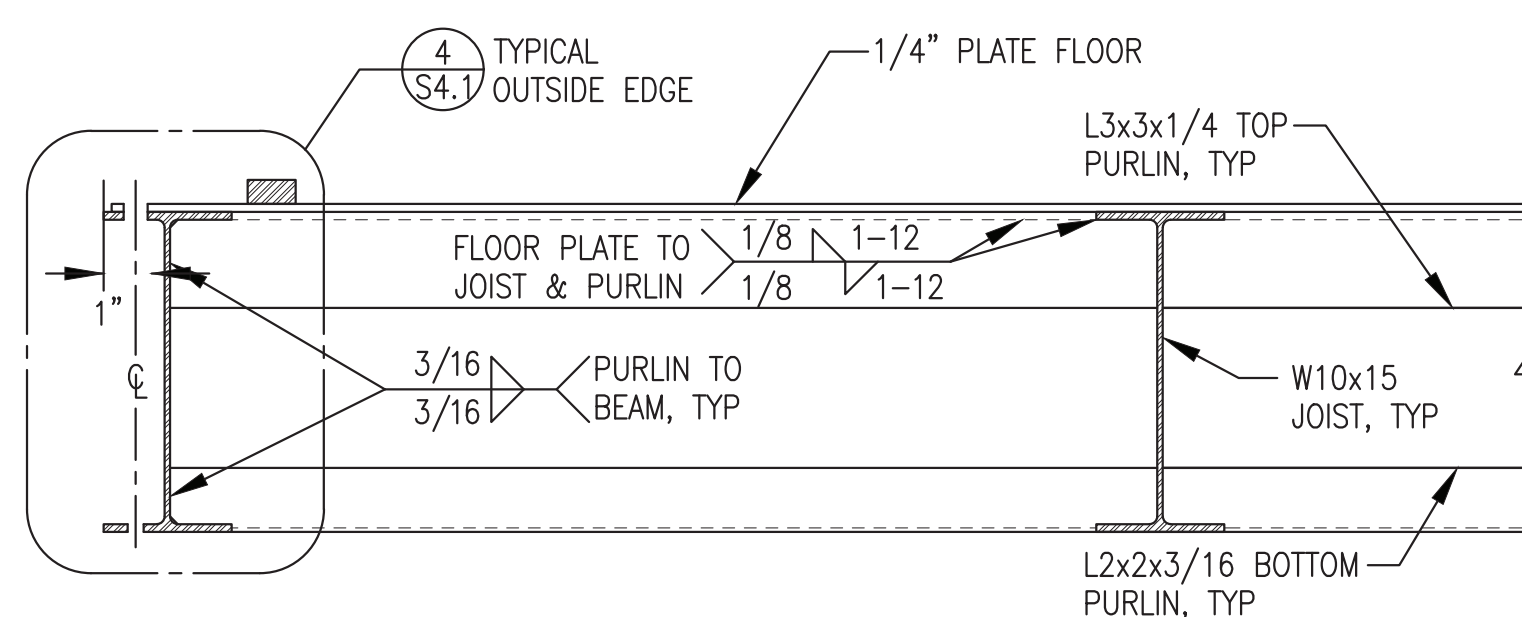
3 TYPICAL PANEL BOTTOM PURLIN LAYOUT (FIVE TOTAL)
S4.1 3/4"=1'-0"

STEEL FLOOR FABRICATION NOTES:

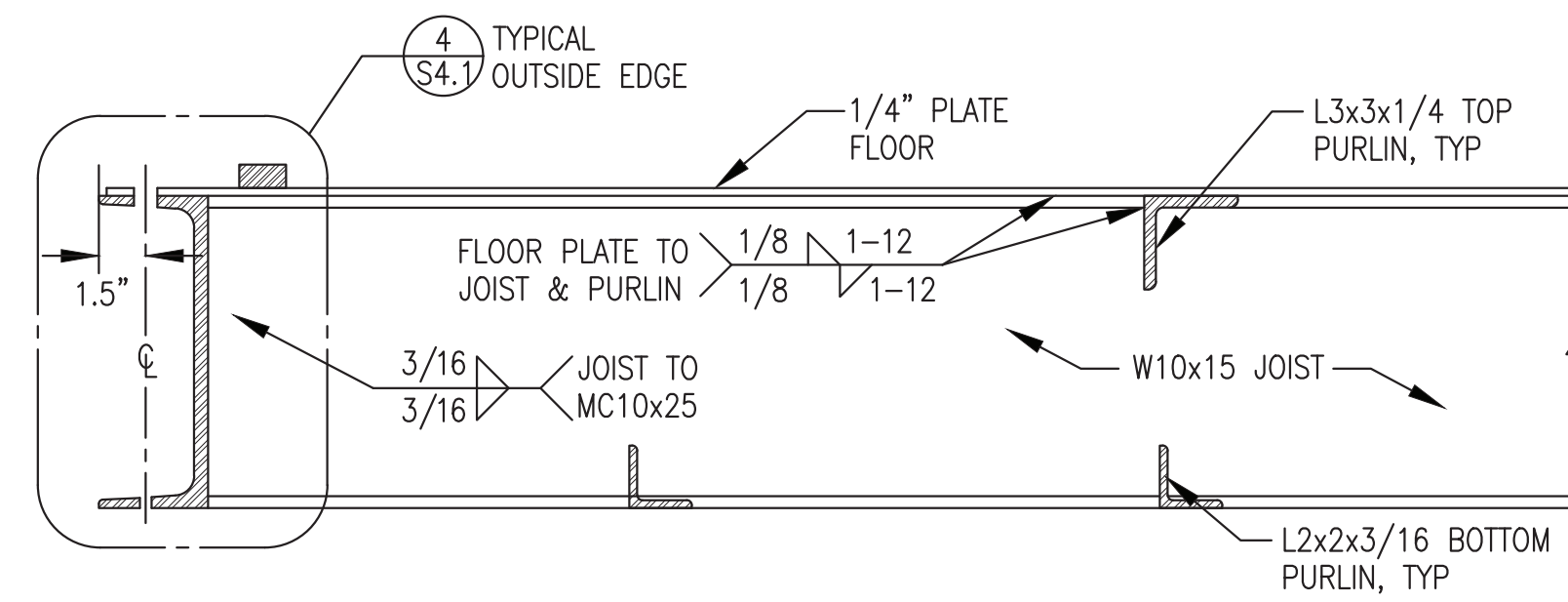
- 1) FABRICATE FIVE FLOOR PANELS AS INDICATED - TWO MIRROR IMAGE END PANELS AND THREE IDENTICAL MID PANELS.
- 2) FABRICATE FROM ASTM A-36 STEEL SHAPES AND PLATE.
- 3) MAKE ALL JOINTS AND CONNECTIONS WITH CONTINUOUS OR STITCHED GROOVE OR FILLET WELDS AS INDICATED.
- 4) UPON COMPLETION OF FABRICATION ROUND ALL OUTSIDE CORNERS AND GRIND ALL EDGES SMOOTH.
- 5) ALL SURFACES TO REMAIN UNPAINTED EXCEPT TOP SURFACE OF FLOOR PLATE AND PERIMETER CONTAINMENT PLATE. SAND BLAST TOP SURFACE OF FLOOR PLATE TO SSPC-SP-6. MASK 1" WIDE STRIP ON ALL FIELD ASSEMBLY EDGES AFTER SAND BLASTING. PRIME FLOOR PLATE SURFACES WITH ONE COAT OF EPOXY, PPG AMERLOC 2 VOC OR APPROVED EQUAL, COLOR ANSI 61 GRAY, MINIMUM 4 MILS DRY FILM THICKNESS.



4 TYPICAL PANEL OUTSIDE EDGE
S4.1 NO SCALE

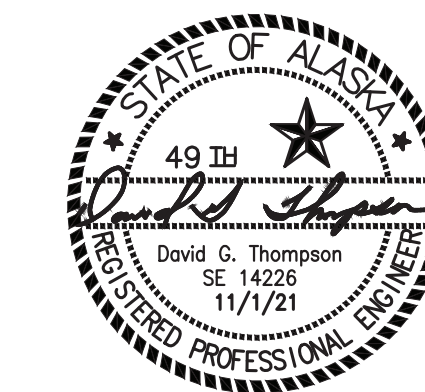


5 TYPICAL PARTIAL CROSS SECTION
S4.1 NO SCALE



6 TYPICAL PARTIAL LONG SECTION
S4.1 NO SCALE

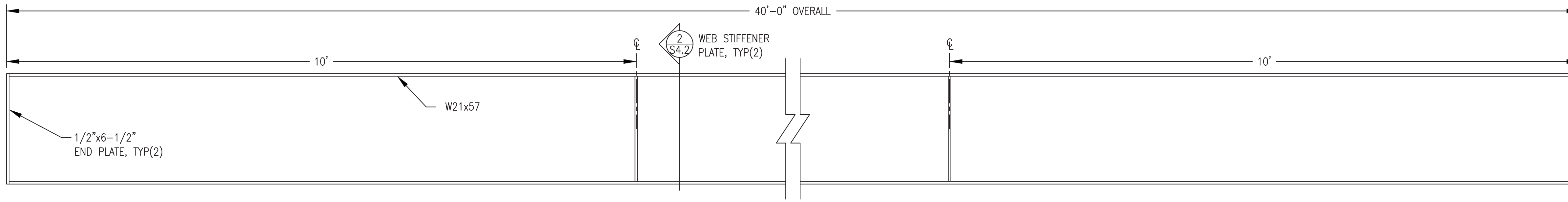
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2021



PROJECT:	VENETIE POWER SYSTEM UPGRADE	
TITLE:	STEEL FLOOR SHOP FABRICATION	
DRAWN BY:	JTD	SCALE: AS NOTED
DESIGNED BY:	DGT/BCC	DATE: 11/1/21
FILE NAME:	VEN_PP_A&S	SHEET:
PROJECT NUMBER:		S4.1



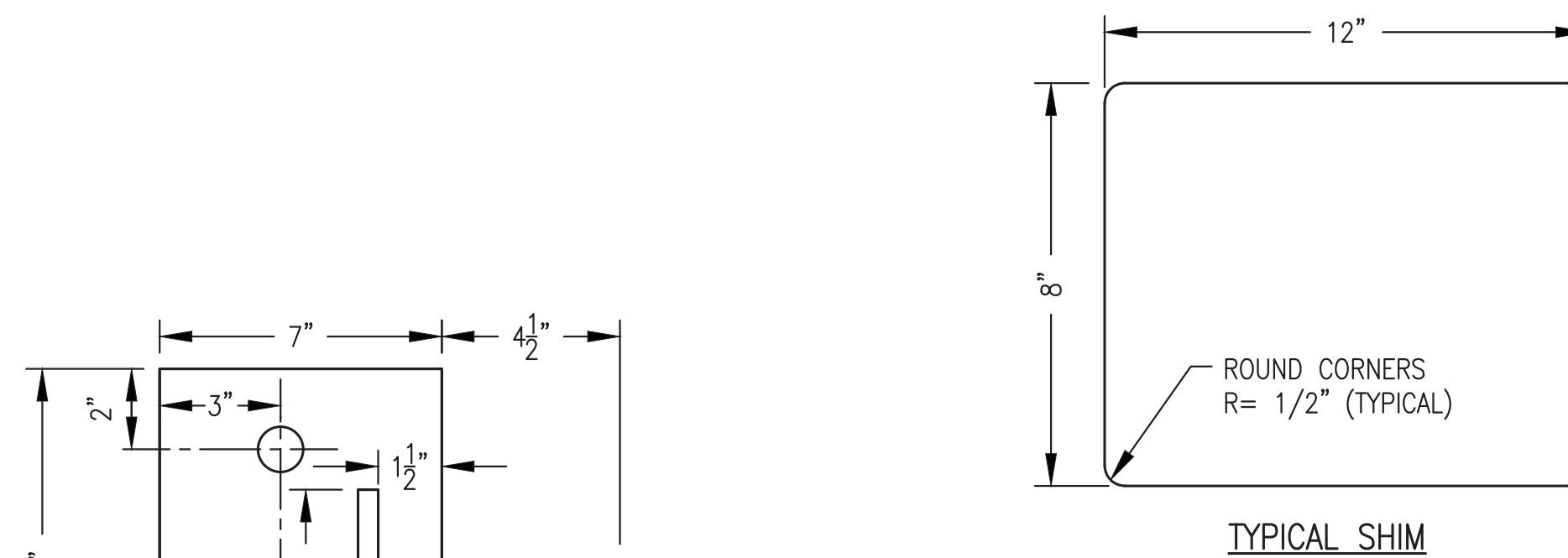
P.O. 111405, Anchorage, AK 99511 (907)349-0100



MAIN SUPPORT BEAM FABRICATION & PAINTING NOTES:

- 1) FABRICATE TWO IDENTICAL MAIN SUPPORT BEAM ASSEMBLIES.
- 2) FABRICATE FROM ASTM A-36 STEEL SHAPES AND PLATE.
- 3) MAKE ALL JOINTS AND CONNECTIONS WITH CONTINUOUS GROOVE OR FILLET WELDS.
- 4) UPON COMPLETION OF FABRICATION ROUND ALL OUTSIDE CORNERS AND GRIND ALL EDGES SMOOTH.
- 5) DO NOT SAND BLAST OR PAINT TOP FLANGE OF BEAM. SAND BLAST ALL OTHER SURFACES TO SSPC-SP-6. COAT SANDBLASTED SURFACES WITH 2 COATS OF COLD GALVANIZING COMPOUND, ZRC OR APPROVED EQUAL TO 8 MILS MINIMUM DRY FILM THICKNESS.

1 MAIN SUPPORT BEAM FABRICATION, TYP(2 MIRROR IMAGE)
S4.2 3/4"=1'-0"

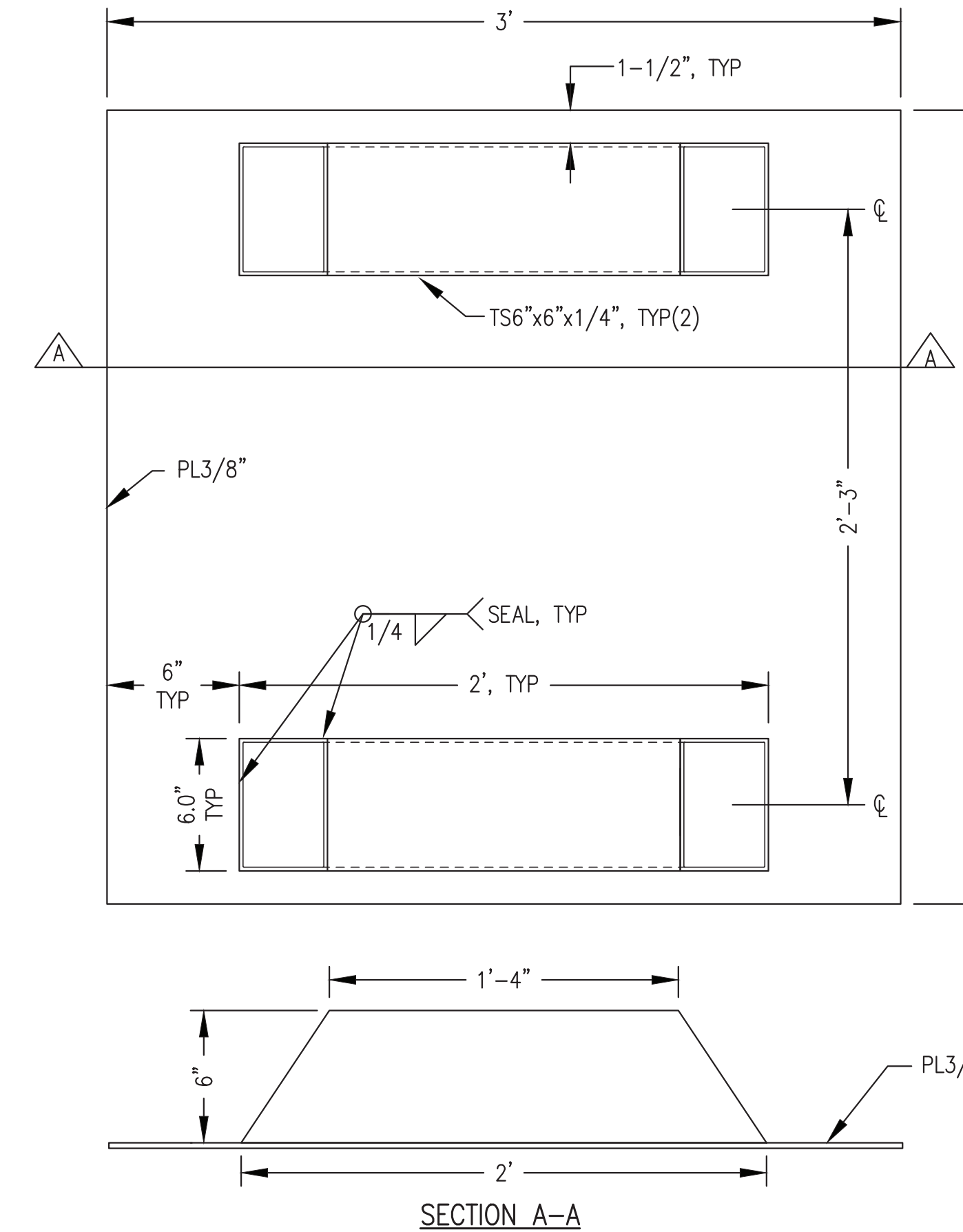


SHIM FABRICATION TABLE

THICKNESS	QUANTITY	MATERIAL
1/4"	12	GALV STEEL
1/2"	8	GALV STEEL
1"	4	GALV STEEL

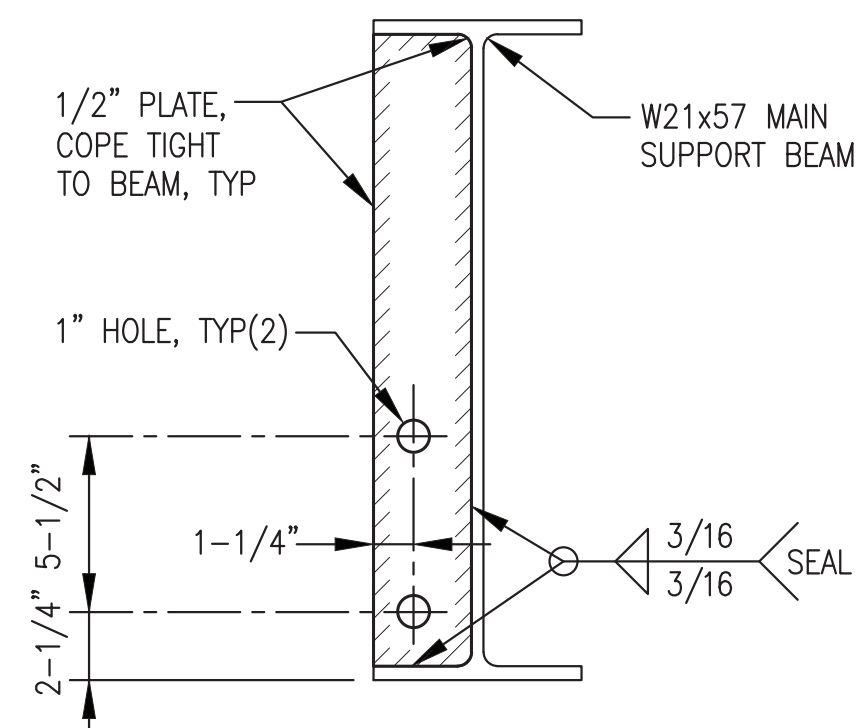
ANCHOR & SHIM FABRICATION NOTES:

- 1) FABRICATE FOUR IDENTICAL ANCHOR ASSEMBLIES. DO NOT SHEAR ANCHOR PLATES. CUT WITH WATER JET, TORCH, OR SAW.
- 2) FABRICATE FROM ASTM A-36 STEEL SHAPES AND PLATE.
- 3) MAKE ALL JOINTS AND CONNECTIONS WITH CONTINUOUS GROOVE OR FILLET WELDS.
- 4) FABRICATE SHIMS OF QUANTITY AND THICKNESS AS DESCRIBED IN SHIM FABRICATION TABLE.
- 5) UPON COMPLETION OF FABRICATION ROUND ALL OUTSIDE CORNERS AND GRIND ALL EDGES SMOOTH.
- 6) SAND BLAST ALL PIECES TO SSPC-SP-6. COAT WITH 2 COATS OF COLD GALVANIZING COMPOUND, ZRC OR APPROVED EQUAL TO 8 MILS MINIMUM DRY FILM THICKNESS.



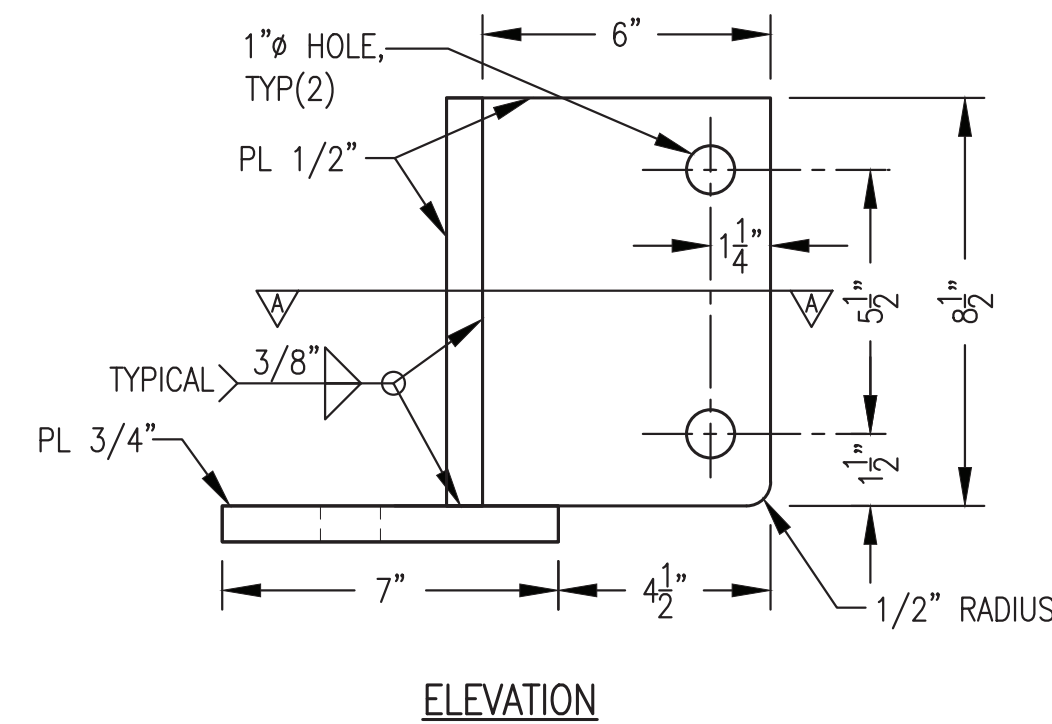
GENERATOR SUPPORTS FABRICATION NOTES:

- 1) FABRICATE SIX IDENTICAL GENERATOR SUPPORT PEDESTAL ASSEMBLIES.
- 2) FABRICATE FROM ASTM A-36 STEEL SHAPES AND PLATE AS INDICATED.
- 3) MAKE ALL JOINTS AND CONNECTIONS WITH CONTINUOUS GROOVE OR FILLET WELDS.
- 4) UPON COMPLETION OF FABRICATION ROUND ALL OUTSIDE CORNERS AND GRIND ALL EDGES SMOOTH.
- 5) SAND BLAST SUPPORTS TO SSPC-SP-6. MASK 1" WIDE STRIP ALL AROUND TOP/EDGE OF PLATE AFTER SAND BLASTING. FINISH WITH TWO COATS OF EPOXY, PPG AMERLOC 2 VOC OR APPROVED EQUAL, COLOR ANSI 61 GRAY, MINIMUM 8 MILS DRY FILM THICKNESS.



STIFFENER PLATE FABRICATION NOTES:

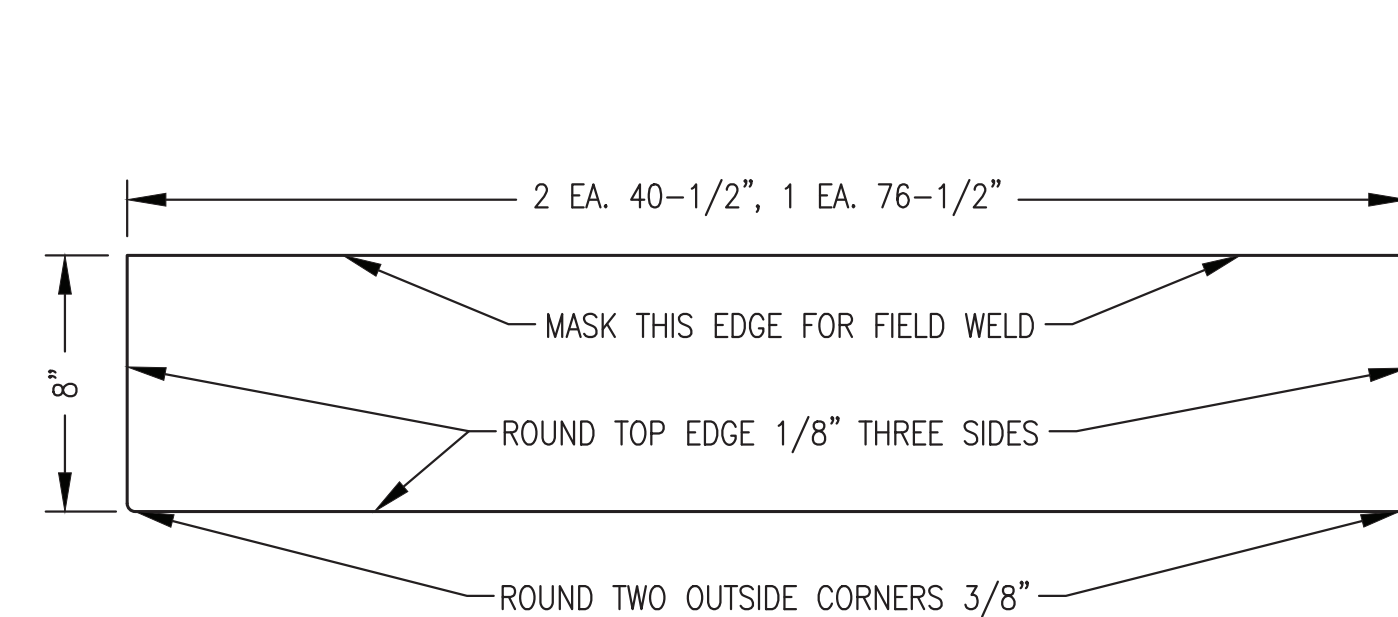
- 1) INSTALL TWO WEB STIFFENER PLATES ON EACH MAIN SUPPORT BEAM.
- 2) DO NOT SHEAR STIFFENER PLATE. CUT WITH WATER JET, TORCH, OR SAW.



3 TYPICAL FOUNDATION ANCHOR & SHIM FABRICATION
S4.2 3"=1'-0"

4 GENERATOR SUPPORT PEDESTAL FABRICATION
S4.2 2"=1'-0"

2 MAIN SUPPORT BEAM WEB STIFFENER PLATE
S4.2 2"=1'-0"

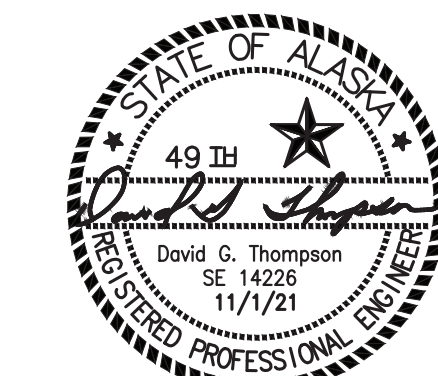




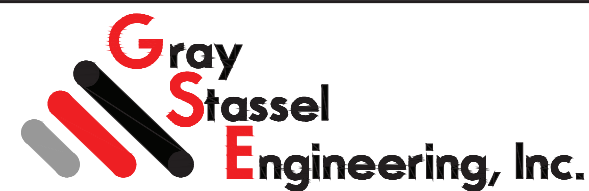
GENERATOR SUPPORTS FABRICATION NOTES:

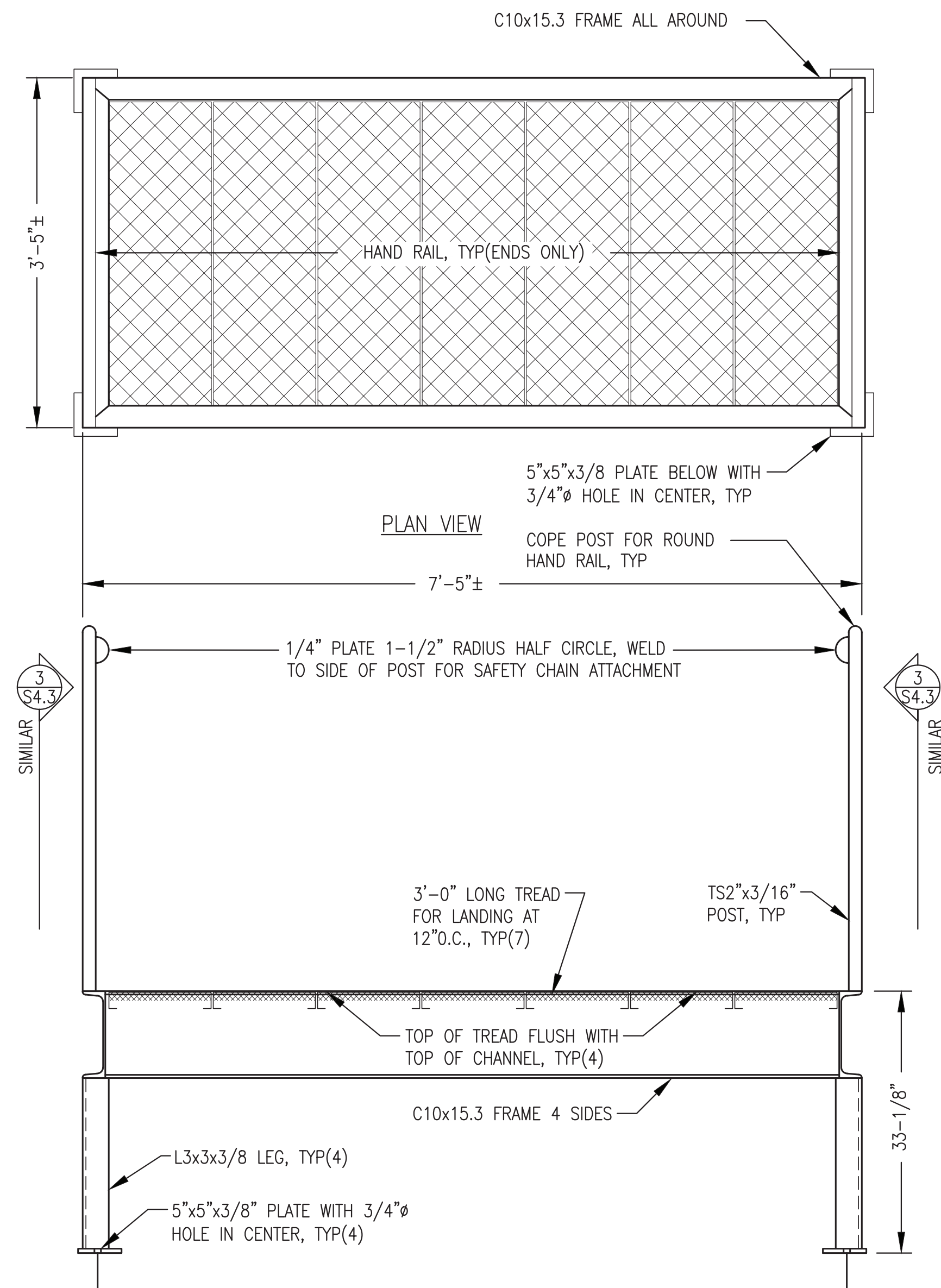
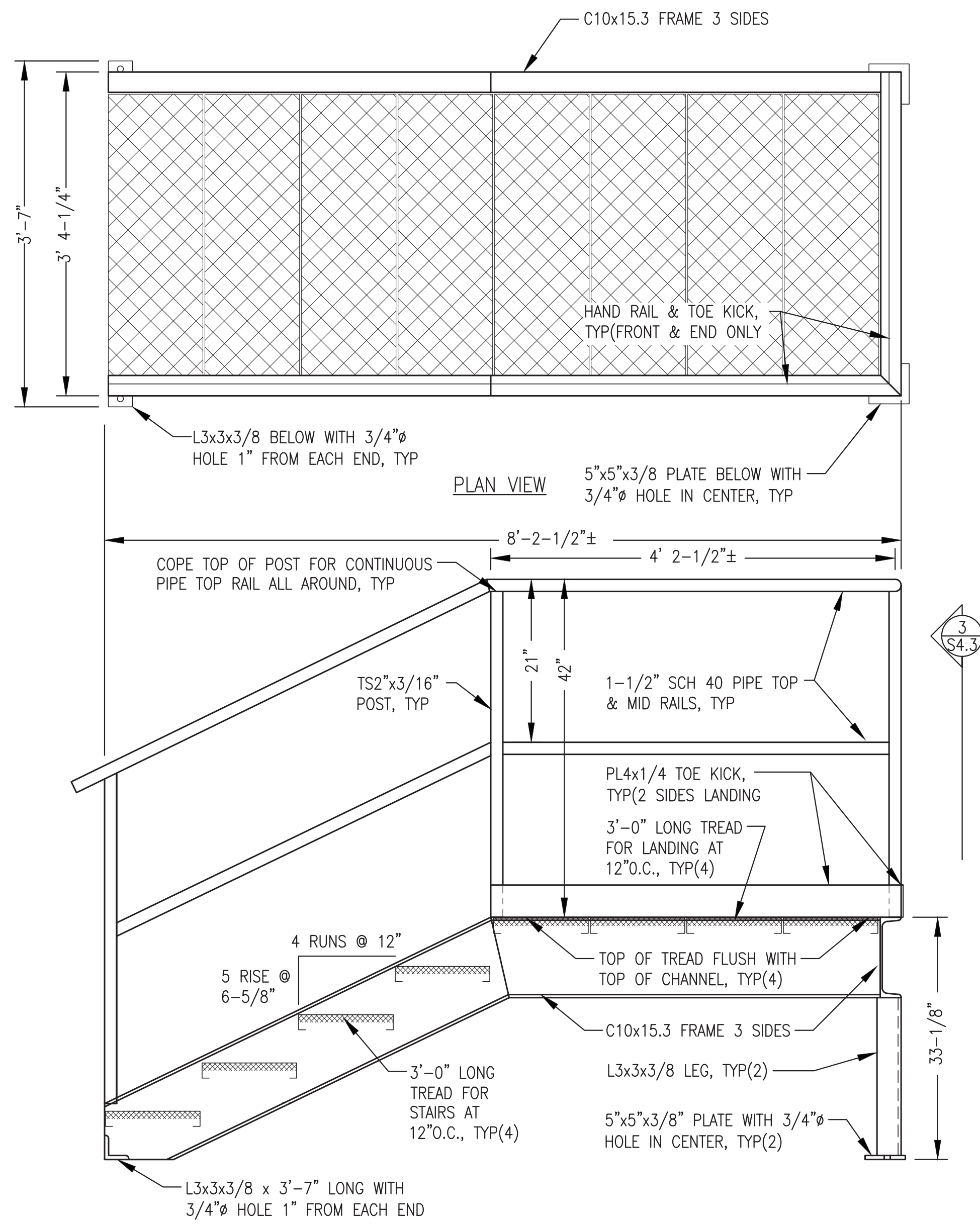
- 1) FABRICATE THREE DOOR THRESHOLD PLATES OF DIMENSIONS INDICATED FROM 3/4" THICK ASTM A-36 STEEL PLATE.
- 2) UPON COMPLETION OF FABRICATION ROUND OUTSIDE CORNERS AS INDICATED AND GRIND ALL EDGES SMOOTH.
- 3) SAND BLAST TOP AND OUTSIDE EDGE TO SSPC-SP-6. MASK 1" WIDE STRIP ONE SIDE AS INDICATED AFTER SAND BLASTING. FINISH SANDBLASTED SURFACES WITH TWO COATS OF HIGH SOLIDS EPOXY COATING, PPG AMERLOC 2 VOC OR APPROVED EQUAL, COLOR ANSI 61 GRAY, MINIMUM 8 MILS DRY FILM THICKNESS.

5 DOOR THRESHOLD PLATE FABRICATION
S4.2 NO SCALE

ISSUED FOR CONSTRUCTION
NOVEMBER 2021

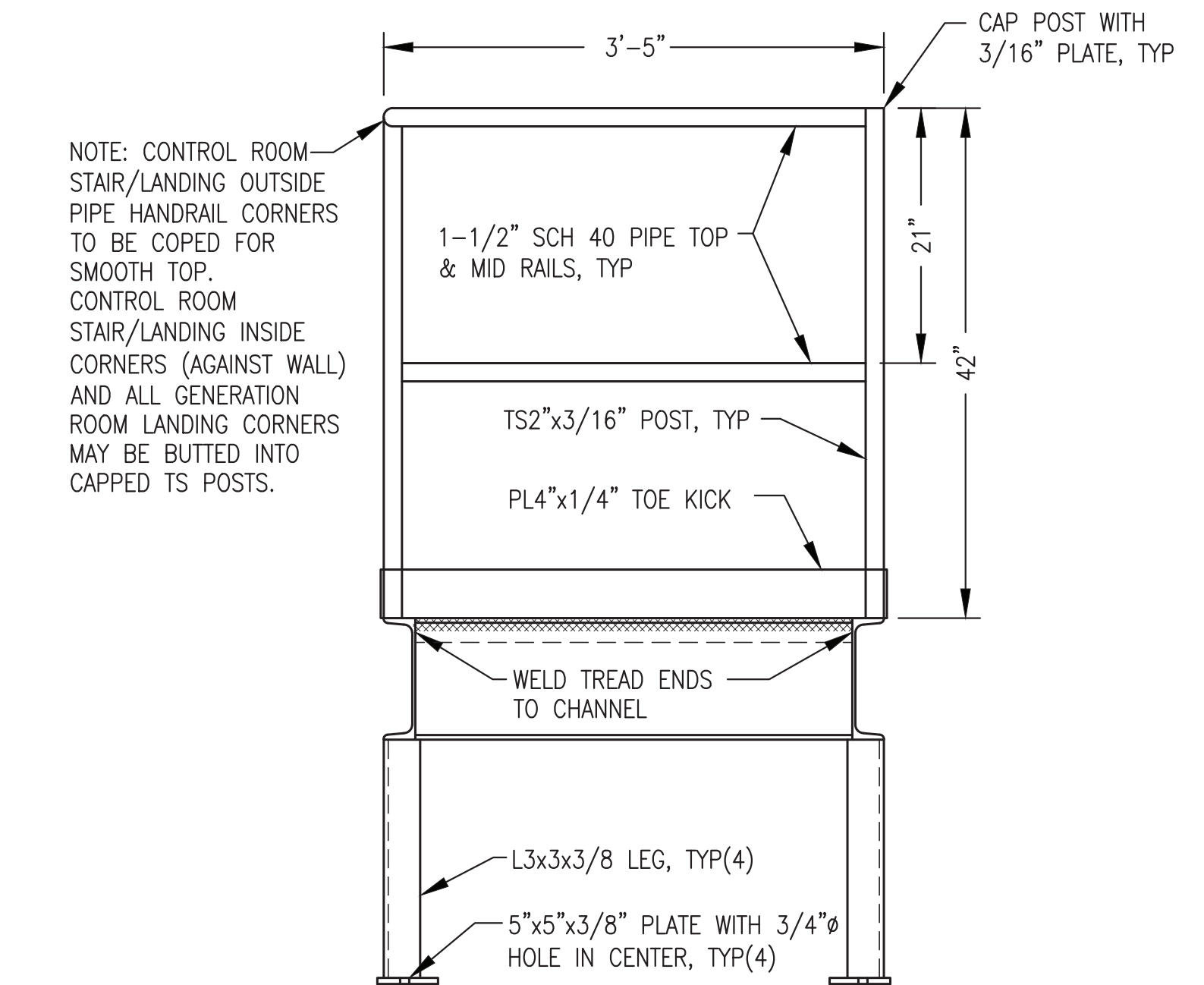


 	
PROJECT: VENETIE POWER SYSTEM UPGRADE	
TITLE: MISCELLANEOUS STEEL SHOP FABRICATION DETAILS	
	DRAWN BY: JTD DESIGNED BY: DGT/BCC FILE NAME: VEN PP A&S PROJECT NUMBER:
SCALE: AS NOTED	SHEET: S4.2



STAIR & LANDING FABRICATION NOTES:

- 1) FABRICATE TWO IDENTICAL CONTROL ROOM STAIR/LANDING ASSEMBLIES AND ONE GENERATOR ROOM LANDING ASSEMBLY.
- 2) FABRICATE FROM ASTM A-36 STEEL SHAPES AND PLATE. STAIR AND PLATFORM TREADS TO BE PRE-GALVANIZED 2"x11-3/4"x12 GA. GRIP STRUT.
- 3) MAKE ALL JOINTS AND CONNECTIONS WITH CONTINUOUS GROOVE OR FILLET WELDS.
- 4) UPON COMPLETION OF FABRICATION ROUND ALL OUTSIDE CORNERS AND GRIND ALL EDGES SMOOTH.
- 5) DO NOT SANDBLAST OR COAT PRE-GALVANIZED GRIP STRUT EXCEPT FOR WELD AREAS AS REQUIRED. SAND BLAST ALL OTHER STAIR/LANDING SURFACES TO SSPC-SP-6. COAT SANDBLASTED SURFACES WITH 2 COATS OF COLD GALVANIZING COMPOUND, ZRC OR APPROVED EQUAL TO 8 MILS MINIMUM DRY FILM THICKNESS.

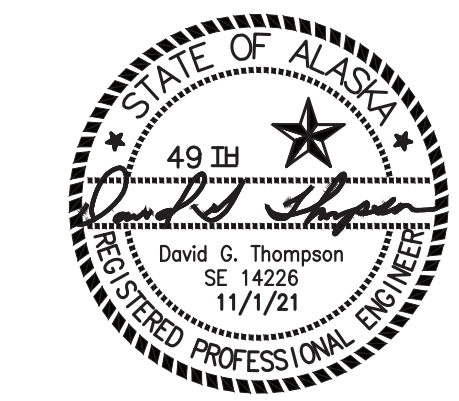


1 CONTROL ROOM STAIR/LANDING FABRICATION FRONT ELEVATION, TYP(2)
S4.3 1"=1'-0"

2 GENERATOR ROOM LANDING FABRICATION FRONT ELEVATION
S4.3 1"=1'-0"

3 TYPICAL STAIR & LANDING INSTALLATION END ELEVATION
S4.3 3/4"=1'-0"

ISSUED FOR
CONSTRUCTION
NOVEMBER
2021



PROJECT: VENETIE POWER SYSTEM UPGRADE		
TITLE: STAIR & LANDING SHOP FABRICATION DETAILS		
DESIGNED BY: DGT/BCG	DATE: 11/1/21	SCALE: AS NOTED
FILE NAME: VEN_PP_A&S	SHEET: S4.3	
P.O. 111405, Anchorage, AK 99511 (907)349-0100		