

CHIPPEWA DOWNS GRANDSTAND

BELCOURT, NORTH DAKOTA



LIST OF DRAWINGS

SWENSON, HAGEN, & CO.
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jpetryszyn@swensonhagen.com

CIVIL

- C1.0 EXISTING SITE CONDITIONS
- C2.0 REMOVALS AND EROSION CONTROL
- C3.0 DIMENSION AND UTILITY PLAN
- C4.0 GRADING AND PAVING PLAN

JIRAN ARCHITECTS AND PLANNERS, P.C.
1431 INTERSTATE LOOP
BISMARCK, ND 58503
(701) 258-7771
jeff@jiranpc.com

ARCHITECTURAL

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- A2-0 FLOOR PLAN, SCHEDULES
- A2-1 GRANDSTAND PLAN, BATHROOM PLANS
- A2-2 ENLARGED KITCHEN EQUIPMENT PLAN
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- GRANDSTAND TITLE SHEET
- GRANDSTAND SIDE VIEW
- GRANDSTAND SECTION VIEW
- GRANDSTAND SIGHT LINES
- GRANDSTAND PLAN AND FOOTING LAYOUT

CW STRUCTURAL ENGINEERS
1000 EAST CALGARY AVE.
BISMARCK, ND 58503
(701) 221-3286
chriswentz@cwstructural.net

STRUCTURAL

- S0.1 GENERAL STRUCTURAL NOTES
- S0.2 GENERAL STRUCTURAL NOTES AND SPECIAL INSPECTION TABLES
- S1.1 FOUNDATION PLAN
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- S4.1 FRAMING DETAILS
- S4.2 FRAMING DETAILS
- S4.3 FRAMING DETAILS

PRAIRIE ENGINEERING
1905 17th St SE
MINOT, ND 58701
(701) 252-6363
cbulow@prairieengineeringpc.com

MECHANICAL

- M001 MECHANICAL SITE PLAN
- M100 UNDERGROUND PLUMBING PLAN
- M101 PLUMBING PLAN
- M103 PLUMBING RISERS
- M104 PLUMBING RISERS
- M200 AIR DISTRIBUTION PLAN
- M201 ENLARGED HVAC PLAN
- M300 DETAILS
- M301 DETAILS
- M400 SCHEDULES

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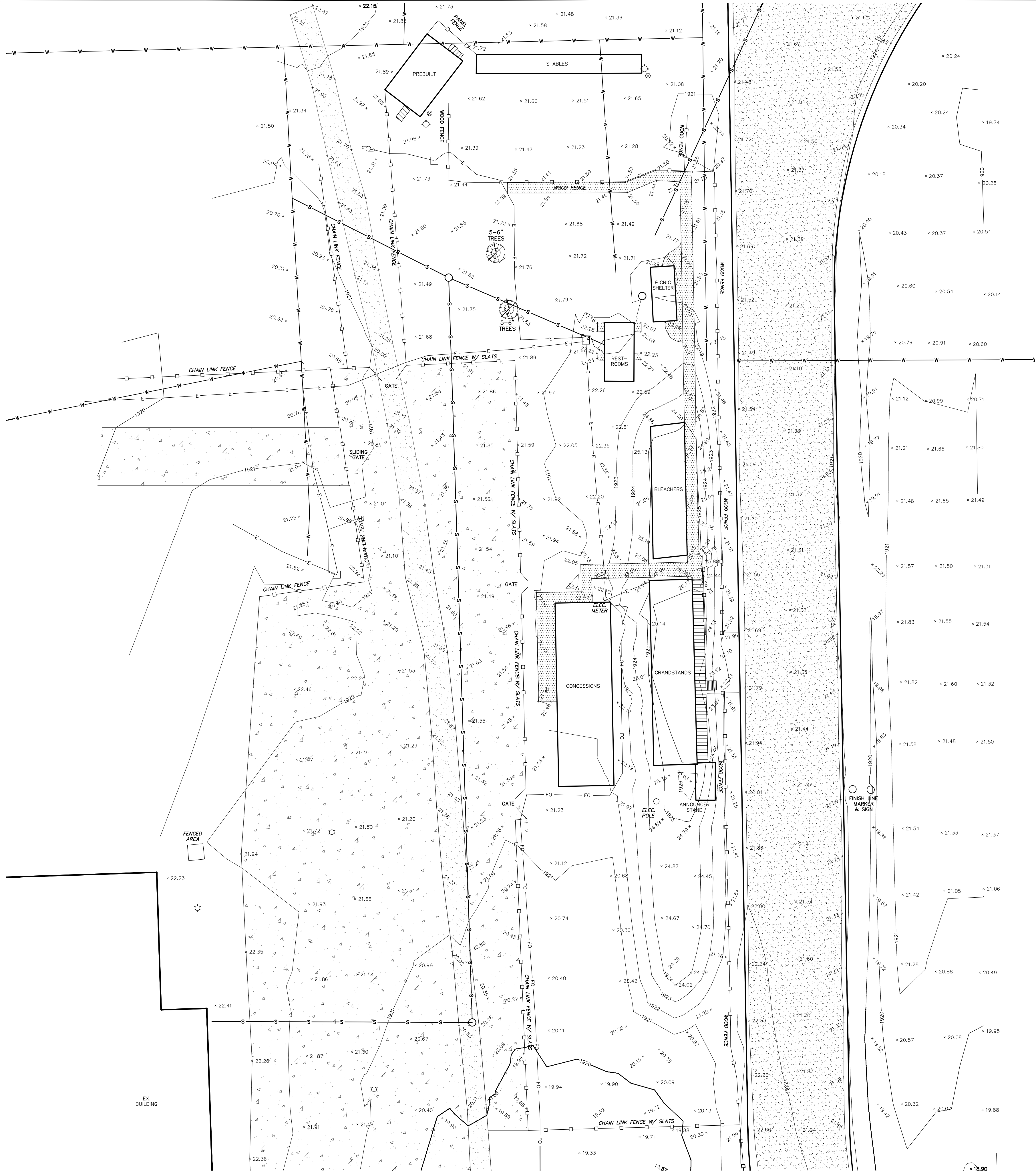
ELECTRICAL

- E1.0 SCHEDULES
- E1.1 SCHEDULES
- E2.0 LIGHTING PLAN
- E3.0 POWER PLAN
- E4.0 SYSTEMS PLAN
- E5.0 GRANDSTAND LIGHTING PLAN

I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH DAKOTA

DATE 8-21-2026 REGISTRATION NO. 1274





DESCRIPTION

TRACT T 999-A
PART OF SE 1/4 SECTION 36, TOWNSHIP 162 N, 71 W
BELCOURT, NORTH DAKOTA 58316

OWNER

TURTLE MOUNTAIN BAND OF CHIPPEWA INDIANS
4189 96 STREET NE
BELCOURT, NORTH DAKOTA 58316
TELE: 701-477-6158

FLOODPLAIN INFORMATION

THE PROPERTY IS LOCATED WITHIN A FLOOD INSURANCE STUDY
AREA ZONE X (AREA OF MINIMAL FLOOD HAZARD) ACCORDING TO
COMMUNITY PANEL 250 OF 253 (38079C0250C), EFFECTIVE JULY
6, 2010, COMPLETED BY FEDERAL EMERGENCY MANAGEMENT
AGENCY.

SURVEY DATUM

HORIZONTAL DATUM:
ND STATE PLANE, NAD 83, NORTH ZONE, INTERNATIONAL FEET
VERTICAL DATUM:
NAVD 88

BENCHMARKS

TO BE SET AT TIME OF CONSTRUCTION

SURVEY NOTES

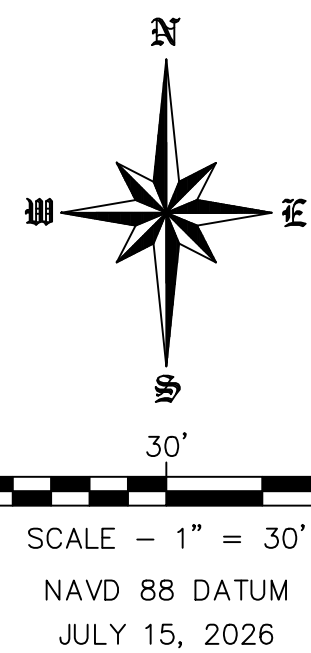
THE SURVEY WAS PERFORMED AT THE REQUEST OF THE
PROPERTY OWNER.

NORTH DAKOTA ONE CALL WAS REQUESTED TO MARK UTILITIES ON
04/13/2026 PER ONE CALL TICKET 26018939. THE MARKED
UTILITIES WERE SURVEYED ON 05/05/2026. RECORDS OF PUBLIC
SEWER AND WATER LINES WERE OBTAINED FROM CITY RECORDS
AND MAY NOT BE AS-BUILT INFORMATION. THE LOCATION OF
UTILITIES ARE BASED ON VISUAL EVIDENCE WITHOUT EXCAVATION
UNLESS NOTED AS SUBSURFACE INVESTIGATION.

A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE WAS NOT
REQUESTED OR PROVIDED BY THE PARTY REQUESTING THE
SURVEY. THIS DOCUMENT MAY NOT INCLUDE COMPLETE
INFORMATION REGARDING EASEMENTS, RESERVATIONS,
RESTRICTIONS, COVENANTS, OR ENCUMBRANCES.

LEGEND

- S—S— EXISTING SANITARY SEWER
- W—W— EXISTING WATERMAIN
- E—E— EXISTING UNDERGROUND ELECTRIC
- FO—FO— EXISTING UNDERGROUND FIBER OPTIC
- □ EXISTING MANHOLE
- △ □ EXISTING UTILITY RISER—VAULT
- ☆ □ EXISTING LIGHT—POWER POLE
- ◇ EXISTING VALVE
- ⊙ EXISTING FIRE HYDRANT
- EXISTING FENCE
- EXISTING HORSE TRACK
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING TRACK RAILS
- EXISTING CONTOUR
- EXISTING GRADE



WARRANTY / DISCLAIMER
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SAFETY NOTICE TO CONTRACTOR
In accordance with generally accepted construction practices the contractor will be solely and completely responsible for the conditions of the job site, including safety of all persons and property during performance of the work. This responsibility will apply continuously and not be limited to normal business hours.

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CALL BEFORE YOU DIG
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UTILITIES UNDERGROUND LOCATION SERVICE
1-800-795-0555

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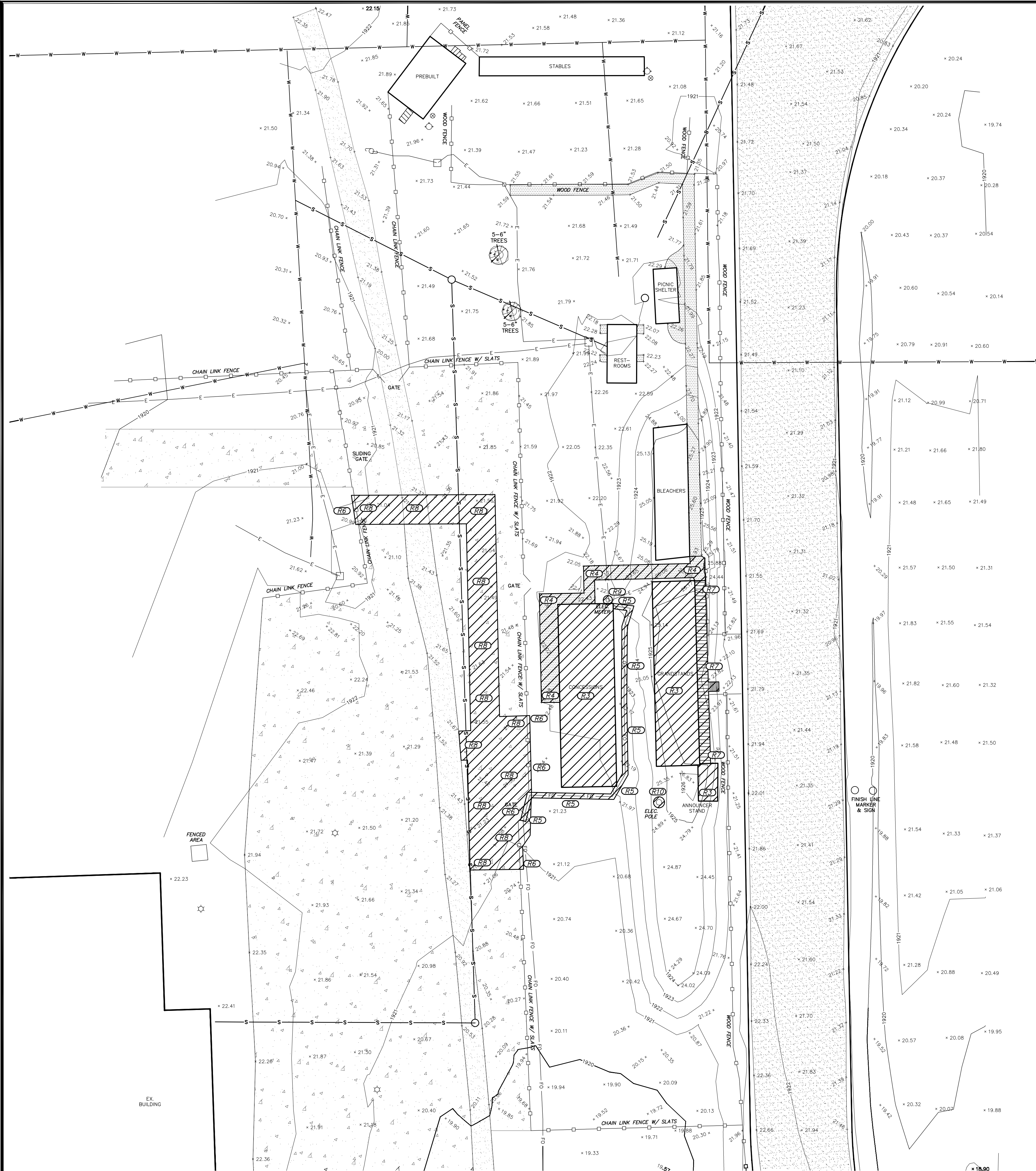
DATE	
REVISIONS	

EXISTING SITE CONDITIONS
BELCOURT, NORTH DAKOTA

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Surveying
Hydrology
Land Planning
Civil Engineering
Landscape & Site Design
Construction Management

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CHECK BY: JP
DATE: 05/19/2026
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GENERAL EROSION CONTROL NOTES

- AN N.O.I. AND SWPPP WILL NEED TO BE PREPARED FOR THIS PROJECT BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL SIGN THE DOCUMENTATION AND SUBMIT TO NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY. CONTRACTOR SHALL NOT START THE PROJECT UNTIL RECEIVING AN APPROVAL LETTER FROM THE DEPARTMENT OF ENVIRONMENTAL QUALITY.
- CONTRACTOR SHALL IMPLEMENT APPROPRIATE EROSION CONTROL BEFORE BEGINNING ANY LAND DISTURBING ACTIVITIES AS DESIGNED. NOTE: EROSION CONTROL ITEMS SHOWN NEED TO BE IMPLEMENTED AT APPROPRIATE STAGES OF CONSTRUCTION.
- CONTRACTOR SHALL CONTROL DUST BLOWING THROUGHOUT PROJECT.
- CONTRACTOR SHALL SEED AND MULCH DISTURBED AREAS AND/OR PROVIDE SOD.
- CONTRACTOR SHALL HAVE A COPY OF THE SWPPP AND EROSION CONTROL PLAN ON-SITE AT ALL TIMES.
- INSPECTIONS SHALL BE PERFORMED AT LEAST ONCE EVERY 7 DAYS OR WITHIN 24-HOURS OF A RAIN EVENT. INSPECTIONS OF THE CONSTRUCTION SITE SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH ALL ASPECTS OF THE SWPPP AND THE IMPLEMENTED CONTROL PRACTICES. INSPECTIONS SHALL INCLUDE THE REVIEW OF ALL DISTURBED AREAS, STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURES, MATERIAL STORAGE AREAS AND VEHICULAR ACCESS POINTS.
- EROSION CONTROL FOR PROJECT DESIGNATES A MINIMUM EFFORT TO CONTROL AND CONTAIN EROSION SEDIMENTS. CONTRACTOR SHALL USE DUE DILIGENCE TO CONTROL EROSION.
- SEDIMENT TRACKING ONTO ADJACENT STREETS WILL BE PROHIBITED. STREETS SHALL BE CLEARED WITHIN 48 HOURS IF SEDIMENT TRACKING OCCURS.
- IN GENERAL, STRAW WATTLES OR SILT FENCE SHALL BE PLACED ON LEVEL GROUND 5' TO 10' AWAY FROM DISTURBED AREAS. WHEN FEASIBLE, SILT FENCE SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.
- ONCE ALL DISTURBED AREAS HAVE BEEN SEEDDED AND MULCHED AND THE SITE DEMONSTRATES A MINIMUM OF 70% VEGETATIVE GROWTH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SILT FENCE AND FIBER ROLL REMOVAL.
- CONCRETE WASHOUT AREAS ARE NOT ALLOWED ON PROJECT SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF EXCESS CONCRETE OFF SITE AT THEIR OWN LOCATION.

EROSION CONTROL DURING CONSTRUCTION PROCESS

- INSTALL STRAW WATTLES OR SILT FENCE AS DESIGNATED, SEE DETAIL.
- CONTRACTOR SHALL INSTALL STABILIZED ACCESS, SEE DETAIL. CONTRACTOR SHALL DIRECT ALL ACCESS TO THE STABILIZED ACCESS.
- DUE TO MULTIPLE CONTRACTORS ONSITE, CONTRACTORS SHALL NOT TRACK EROSION INTO OTHER SITE CONSTRUCTION AREAS.
- EROSION WILL BE PHASED AS INDIVIDUAL BUILDING SITES ARE IMPLEMENTED. STAGE APPROPRIATE EROSION CONTROL AROUND CURRENT PROJECT SITES.
- CONTRACTOR SHALL PROVIDE STRAW WATTLES ALONG PERIMETER OF SITE AS INDICATED ON PLAN.

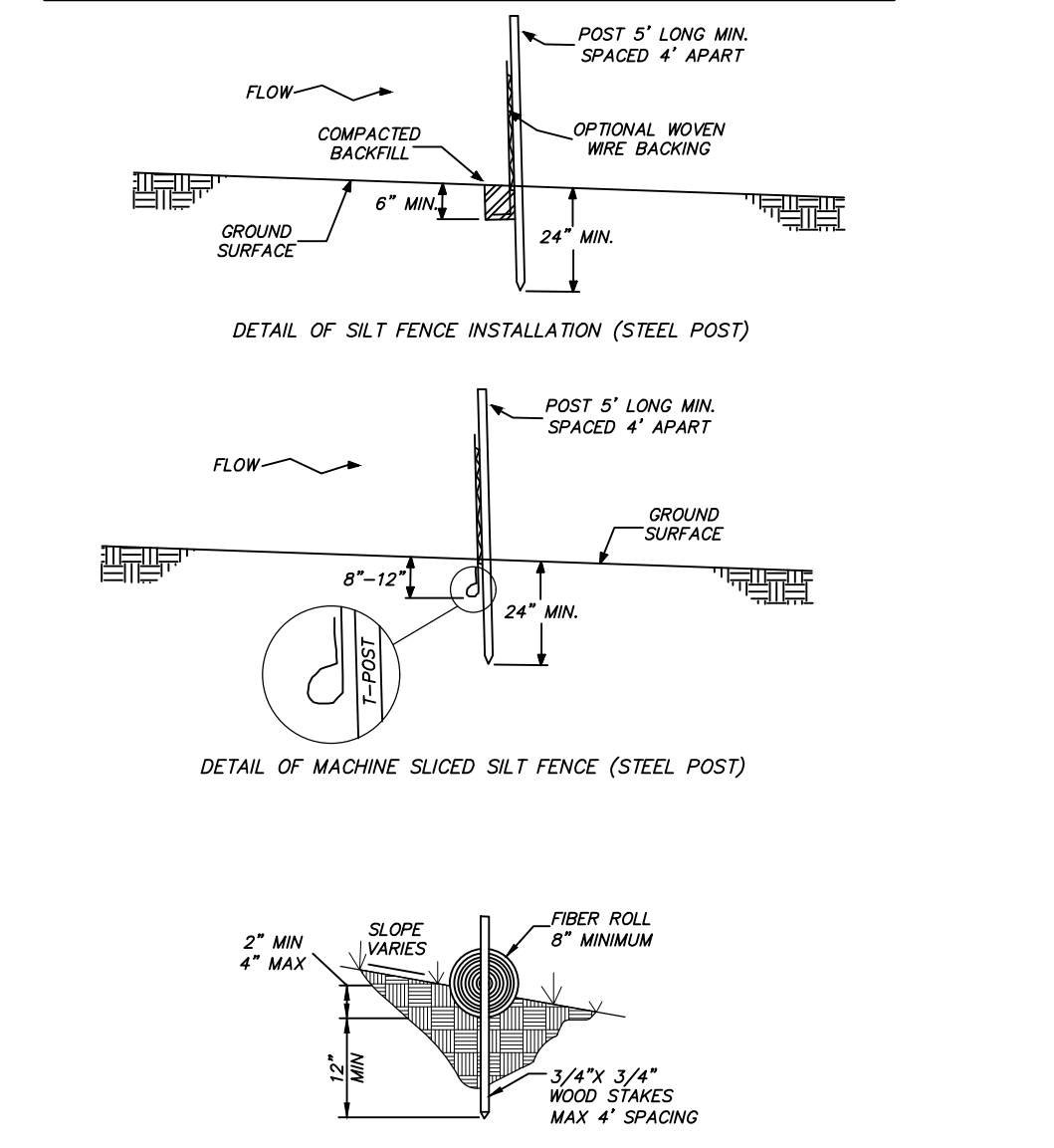
GENERAL CONSTRUCTION NOTES ALL SHEETS

- ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE CITY, STATE AND FEDERAL CODES.
- ALL SITE CONSTRUCTION SHALL CONFORM TO THE CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR MUST BE BONDED BY THE CITY OF BELCOURT FOR ALL CONSTRUCTION IN CITY RIGHT OF WAY OR WHICH CONNECTS TO A CITY UTILITY.
- CONTRACTOR WILL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS.
- IT WILL BE NECESSARY TO HAVE A PRIVATE ENGINEERING AND/OR TESTING FIRM SET GRADES, DO COMPACTION TESTS AND PREPARE RECORD DRAWINGS FOR THE SEWER & WATER LINES. THE CITY ENGINEERING DEPARTMENT WILL REQUIRE TEST REPORTS AND RECORD DRAWINGS PRIOR TO ACCEPTING THE PROJECT AFTER COMPLETION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY SAFEGUARDS SUCH AS WARNING SIGNS, BARRICADES & NIGHT LIGHTS AT THEIR OWN EXPENSE.
- LOCATE AND PROTECT THE IMPROVEMENTS ON SITE AND ON THE ADJOINING PROPERTIES. PROVIDE BARRICADES, COVERINGS OR OTHER TYPE OF PROTECTION AS NECESSARY TO PREVENT DAMAGE AND TO SAFEGUARD AGAINST INJURY TO EXISTING UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH OBTAINING A 3D SURFACE MODEL (.XML), .DXF, AND CONTROL POINTS (.CSV) FOR GRADING PURPOSES. A PROPOSAL FOR THESE COSTS CAN BE PROVIDED AS REQUESTED.
- CONTRACTOR IS RESPONSIBLE FOR PAYMENT TO THE CITY FOR ANY GRADING PERMIT FEES.
- THE LOCATION OF EXISTING BELOW GROUND UTILITIES SHOWN ARE IN AN APPROXIMATE LOCATION AND WERE TAKEN FROM UTILITY PLANS PROVIDED BY OTHERS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

REMOVAL NOTES

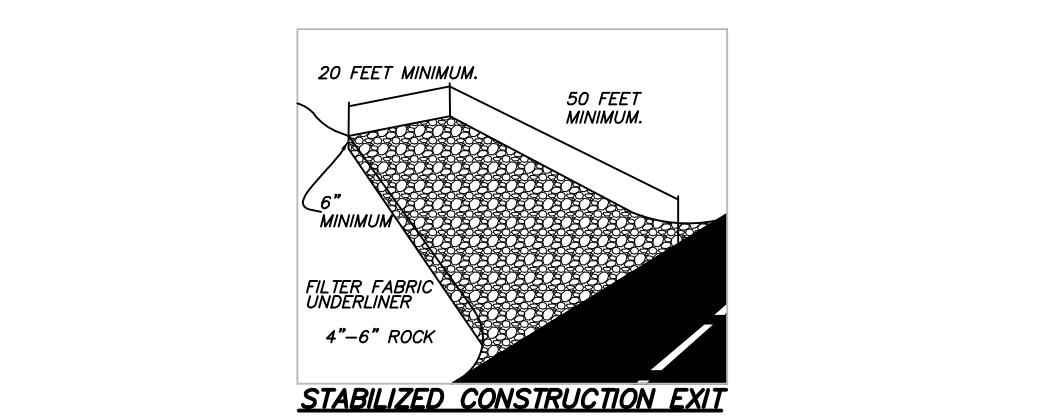
- ALL REMOVALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY OFF THE OWNERS PROPERTY UNLESS NOTED OTHERWISE.
- ALL ASPHALT AND CONCRETE REMOVALS SHALL BE SAW CUT TO PROVIDE VERTICAL FACE TO PAVE AGAINST. SAW CUTTING SHALL BE CONSIDERED INCIDENTAL TO REMOVAL BID ITEMS.
- REMOVE AND DISPOSE OF EXISTING BUILDINGS, ASSOCIATED CONCRETE FOUNDATION, AND CONCRETE SLABS.
- SAW CUT AND REMOVE CONCRETE SIDEWALK.
- REMOVE AND RELOCATE FIBER OPTIC LINE.
- REMOVE AND SALVAGE FENCE AND DISPOSE OF GATE.
- REMOVE AND DISPOSE OF GRANDSTANDS DECK & ASSOCIATED PIER FOOTINGS.
- REMOVE AND SALVAGE OF GRAVEL REMOVE AS NEEDED FOR WATER AND SANITARY SERVICE INSTALLATION.
- REMOVE AND RELOCATE ELECTRICAL METER.
- REMOVE AND RELOCATE ELECTRICAL POLE.

APPROVED TYPES OF SILT FENCE INSTALLATION



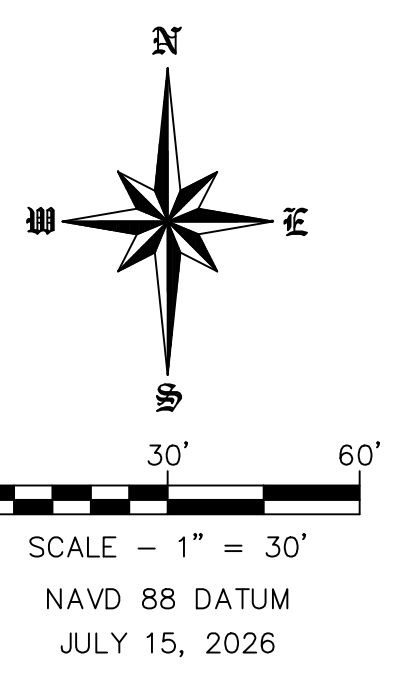
DETAIL OF STRAW WATTLE INSTALLATION

STAKE WATTLES INTO A 2 TO 4 INCH DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE WATTLE.
DRIVE STAKES AT THE END OF EACH WATTLE AND SPACED 4 FEET MAXIMUM ON CENTER.
USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 0.75 BY 0.75 INCH AND MINIMUM LENGTH OF 24 INCHES.
IF MORE THAN ONE STRAW WATTLE IS PLACED IN A ROW, THE WATTLES SHOULD OVERLAP, NOT ABUTTED.



LEGEND

- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING MANHOLE
- EXISTING UTILITY RISER-VAULT
- EXISTING LIGHT-POWER POLE
- EXISTING VALVE
- EXISTING FIRE HYDRANT
- EXISTING FENCE
- EXISTING HORSE TRACK
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING TRACK RAILS
- EXISTING CONTOUR
- EXISTING GRADE
- PROPOSED REMOVALS
- PROPOSED EROSION CONTROL



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DATE

REVISIONS

REMOVALS & EROSION CONTROL PLAN

BELCOURT, NORTH DAKOTA

SWENSON, HAGEN & COMPANY P.C.

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Fax (701) 223-2606

Surveying
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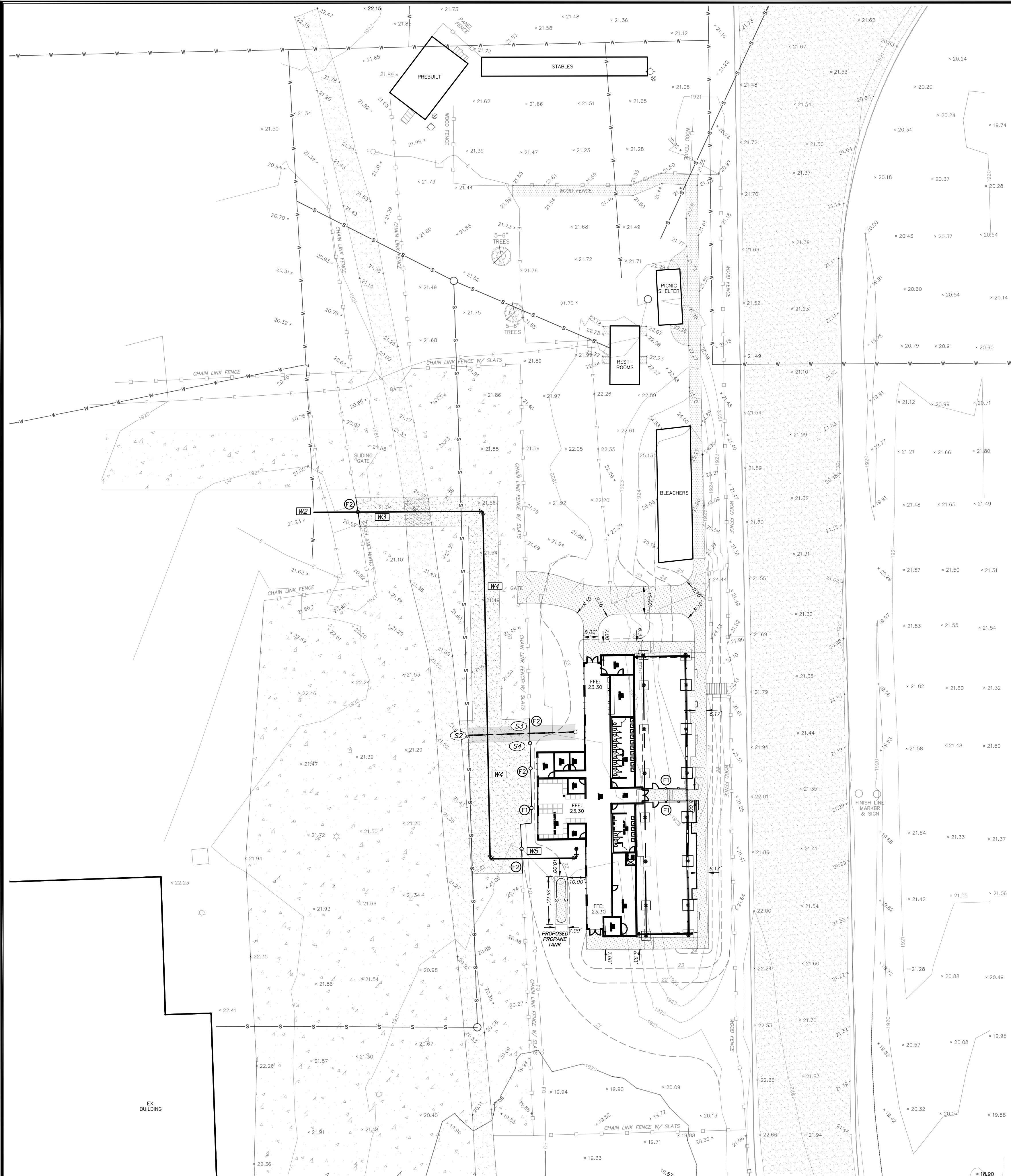
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WATERMAIN

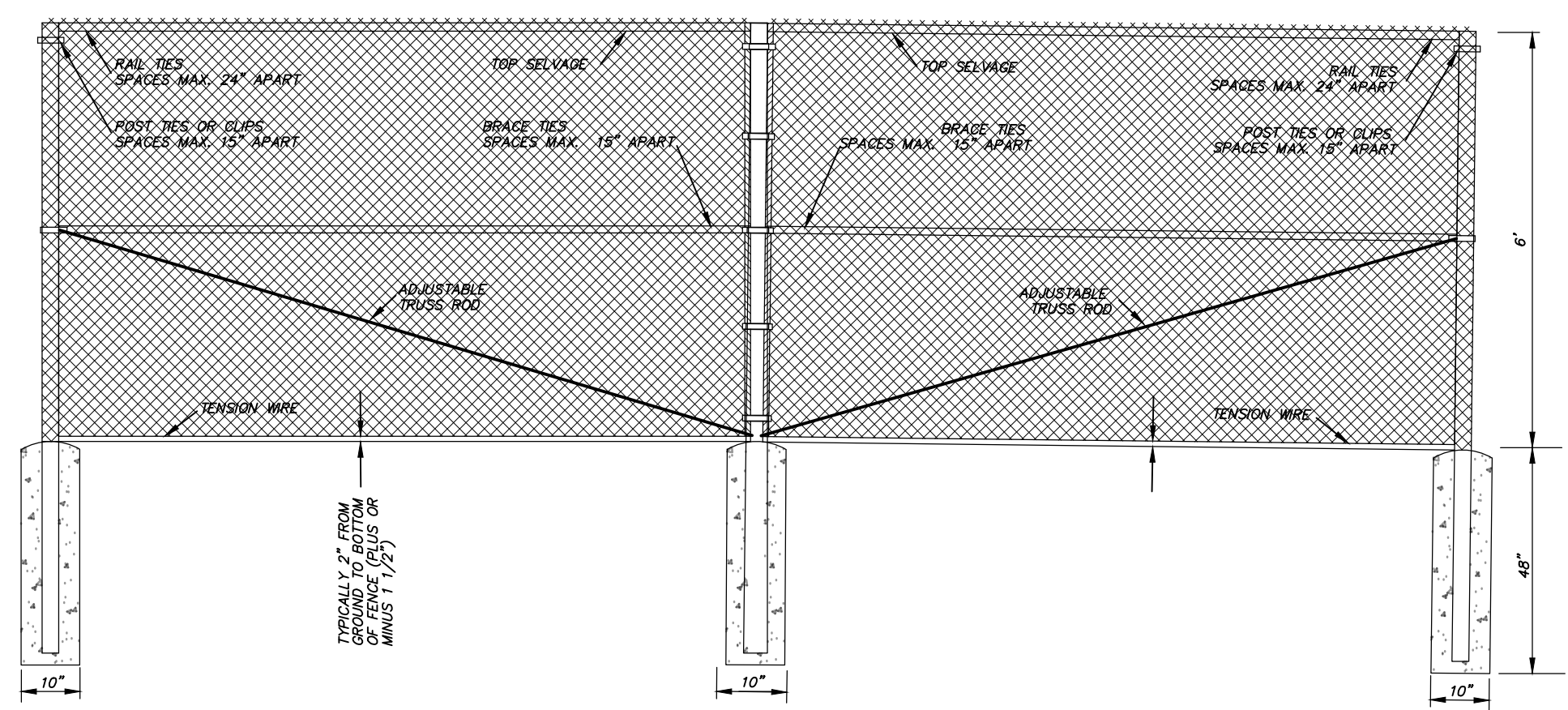
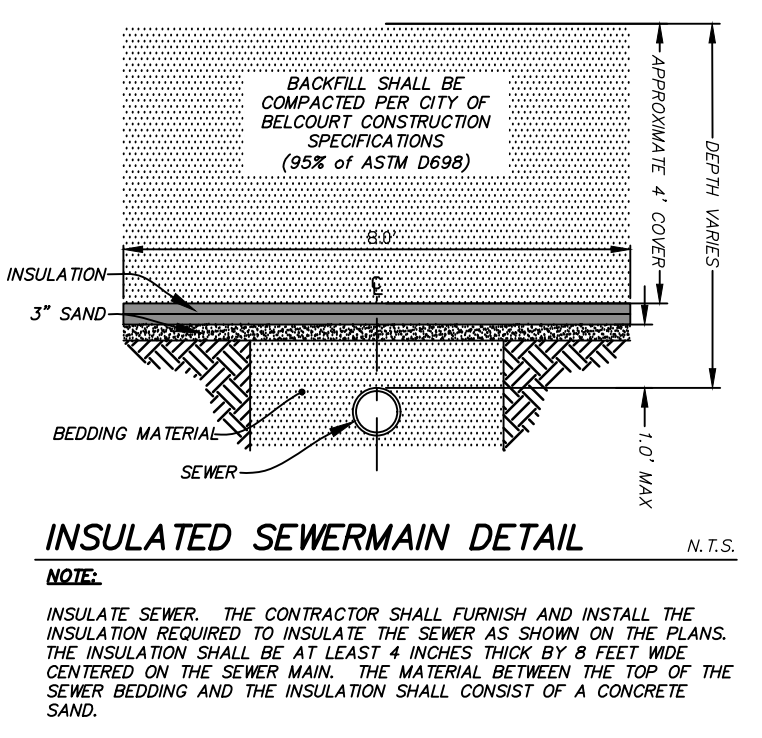
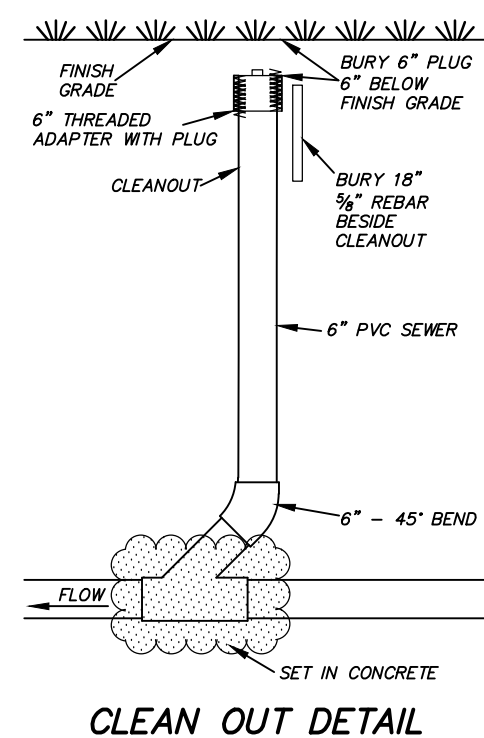
- W1** MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH THE CONSTRUCTION SPECIFICATIONS. ALL BACKFILL SHALL BE CLASS A. ALL WATER MAIN INSTALLED SHALL HAVE MINIMUM 7.50' COVER AND 1.50' OF SEPARATION SHALL BE MAINTAINED BETWEEN WATER AND SEWER SERVICES.
- W2** CONNECT TO EXISTING WATER MAIN WITH A 2" TAPPING SADDLE; INV. 19.13. CONTRACTOR SHALL FIELD VERIFY INVERT AND PIPE SIZE PRIOR TO INSTALLATION.
- W3** INSTALL 92.00 LF 2" WATER SERVICE AND 2" 90° BEND; INV. 13.00.
- W4** INSTALL 189.50 LF 2" WATER SERVICE AND 2" 90° BEND; INV. 13.00.
- W5** INSTALL 47.00 LF, 90° BEND, 5.00 LF 2" WATER SERVICE AND 2" CURB STOP; INV. 15.60. COORDINATE WITH CONTRACTOR FOR CONNECTION INTO BUILDING.

SANITARY SEWER

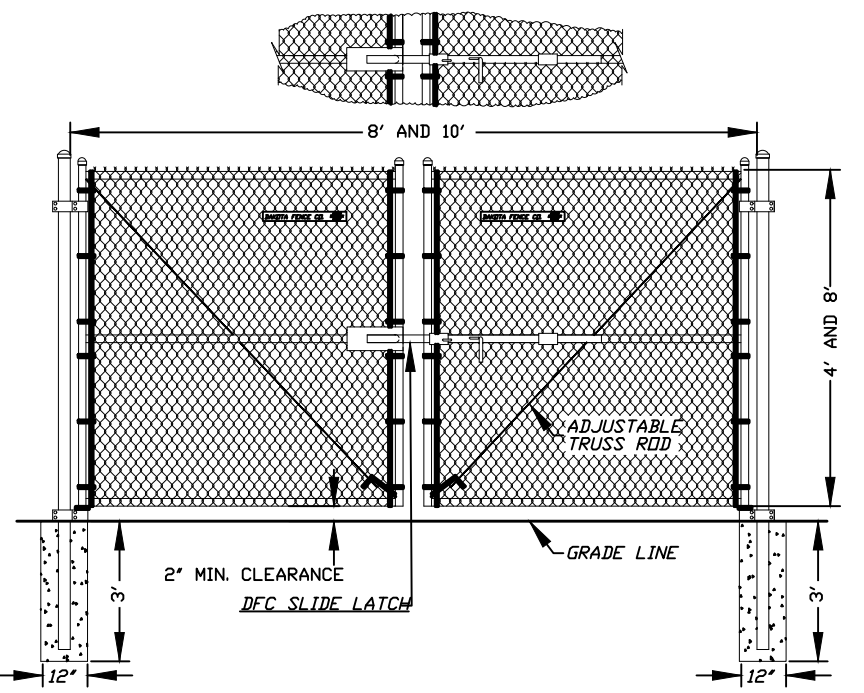
- S1** MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH THE CONSTRUCTION SPECIFICATIONS. ALL BACKFILL SHALL BE CLASS A. TESTING IS CONSIDERED INCIDENTAL. 1.50' OF SEPARATION SHALL BE MAINTAINED BETWEEN WATER AND SEWER SERVICES.
- S2** CONNECT TO EXISTING 8" SANITARY SEWER MAIN WITH 8"x6" INSERTA TEE; APPROX. 8" INV. 16.45±, APPROX. 6" INV. 16.53±, CONTRACTOR SHALL FIELD VERIFY CONNECTION INVERT AND SANITARY PIPE SIZE PRIOR TO INSTALLATION.
- S3** INSTALL 68.45 LF 6" SANITARY SEWER SERVICE AT 1.0625% AND 6" CLEAN OUT; INV. 17.15. COORDINATE WITH CONTRACTOR FOR CONNECTION INTO BUILDING.
- S4** ALL INSTALLED SANITARY SEWER MUST BE COVERED WITH 4" FOAM INSULATION, SEE DETAIL.

FENCING NOTES

- F1** A 6' HIGH CHAIN LINK FENCE WITH SLATS SHALL BE INSTALLED WHERE DEPICTED ON THE PLANS.
- F2** REPLACE EXISTING FENCE DUE TO WATER AND SANITARY SEWER INSTALLATION.



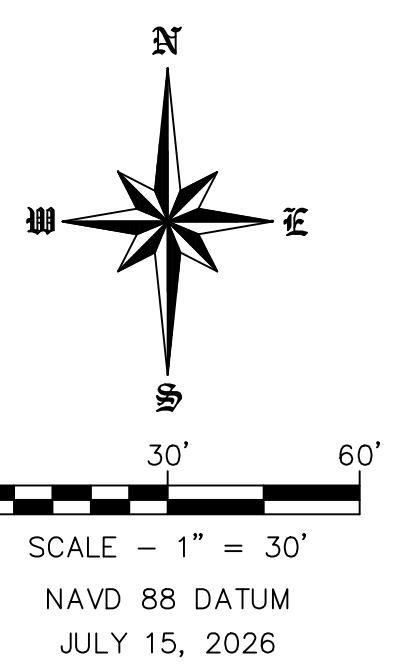
6' CHAIN LINK FENCE DETAIL
NOT TO SCALE



8' AND 10' WIDE SWING GATE
N.T.S.

LEGEND

S	S	EXISTING SANITARY SEWER	---	---	EXISTING TRACK RAILS
W	W	EXISTING WATERMAIN	---	---	EXISTING CONTOUR
E	E	EXISTING UNDERGROUND ELECTRIC	---	---	EXISTING GRADE
FO	FO	EXISTING UNDERGROUND FIBER OPTIC	---	---	PROPOSED SANITARY SEWER
○	○	EXISTING MANHOLE	---	---	PROPOSED WATER MAIN
△	△	EXISTING UTILITY RISER-VAULT	---	---	PROPOSED FENCE
□	□	EXISTING LIGHT-POWER POLE	---	---	PROPOSED CONCRETE
⊗	⊗	EXISTING VALVE	---	---	PROPOSED GRAVEL
◇	◇	EXISTING FIRE HYDRANT	---	---	PROPOSED CONTOUR
---	---	EXISTING FENCE	---	---	PROPOSED GRADE
---	---	EXISTING HORSE TRACK	---	---	PROPOSED INSULATION
---	---	EXISTING CONCRETE	---	---	
---	---	EXISTING GRAVEL	---	---	



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DATE

REVISIONS

DIMENSION & UTILITY PLAN

BELCOURT, NORTH DAKOTA

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Surveying
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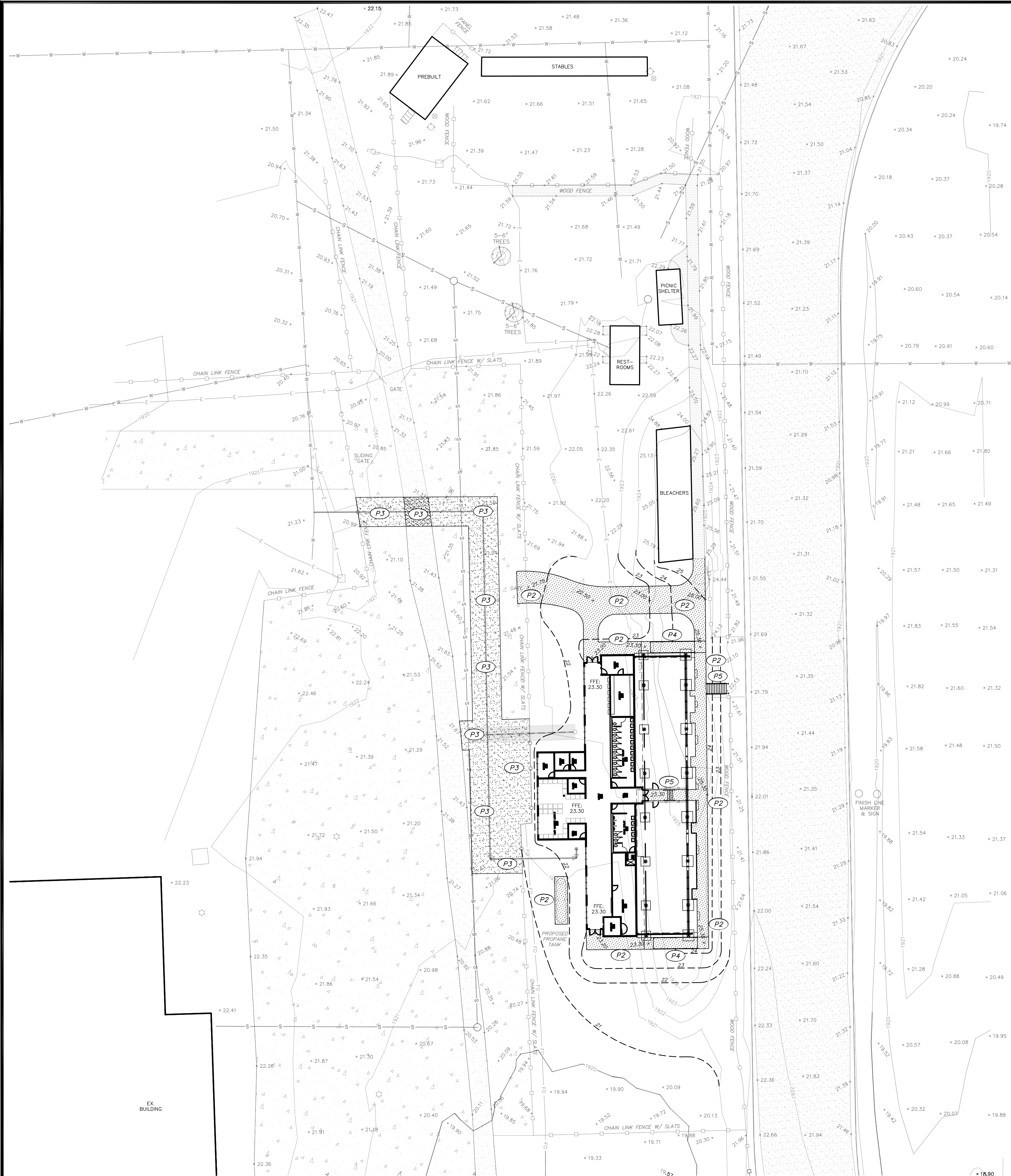
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SHEET C3.0



PAVEMENT

- (P1) ON SITE EXTERIOR CONCRETE MATERIALS AND CONSTRUCTION MATERIALS SHALL CONFORM TO THE CONSTRUCTION SPECIFICATIONS EXCEPT AS MODIFIED HEREIN. AIR CONTENT SHALL BE 5% TO 7% STRENGTH AT 28 DAYS SHALL BE 4500 PSI.
- (P2) 5" CONCRETE WITH MACRO SYNTHETIC FIBERS AND 6" CLASS V BASE, SEE DETAIL THIS SHEET.
- (P3) 8" CLASS V GRAVEL ON 12" OF SUBGRADE PREPARED BASE, SEE DETAIL THIS SHEET.
- (P4) REINFORCED CONCRETE RAMP WITH RAILING PER DETAIL THIS SHEET.
- (P5) REINFORCED CONCRETE STAIRS WITH RAILING PER DETAIL THIS SHEET.
- (P6) MACROSYNTHETIC FIBERS SHALL CONFORM TO ASTM 1116/C 1116M, TYPE III AND DOSAGE SHALL BE 4 LB/CY.
- (P7) SUBGRADE PREPARATION UNDER AREAS TO BE PAVED SHALL BE 12" THICK AND SHALL COMPLY WITH THE CONSTRUCTION SPECIFICATIONS EXCEPT DENSITY SHALL BE 95% OF ASTM D 698. SUBGRADE PREPARATION SHALL BE PROOF ROLLED PRIOR TO PLACING GRAVEL AND GRAVEL SHALL BE PROOF ROLLED PRIOR TO PLACING ASPHALT. ALL PROOF ROLL SHALL BE OBSERVED AND DOCUMENTED BY ON SITE GEOTECHNICAL ENGINEER. ANY AREAS NOT MEETING PROOF ROLL REQUIREMENTS SHALL BE REMOVED AND REPLACED.
- (P8) ALL AGGREGATE BASE SHALL BE CLASS V AGGREGATE PER THE CONSTRUCTION SPECIFICATIONS.

GRADING NOTES

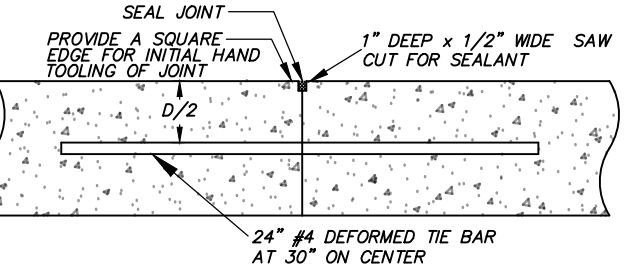
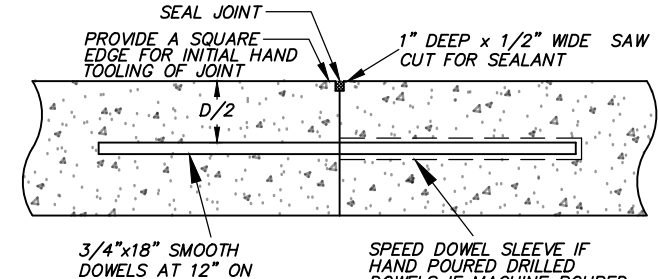
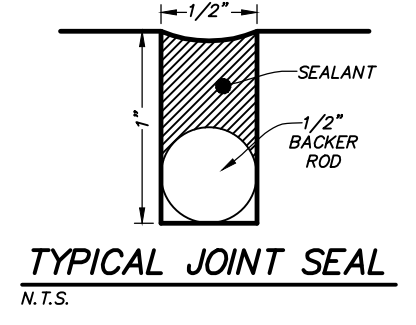
1. THE PROPOSED CONTOURS ARE TO FINISH GRADE.
2. TOPSOIL SHALL BE REMOVED AND STOCKPILED FOR LATER USE. COORDINATE WITH OWNER FOR STOCKPILE LOCATION.
3. REMOVE UNSUITABLE MATERIAL AND ROCKS FROM SITE.
4. ALL AREAS TO BE PAVED SHALL HAVE PROOF ROLL PERFORMED, OBSERVED, AND DOCUMENTED BY GEOTECHNICAL ENGINEER.
5. ALL COMPACTION SHALL BE PERFORMED PER THE CONSTRUCTION SPECIFICATIONS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PAYING FOR ALL TESTING. ALL TESTING SHALL BE PER THE CONSTRUCTION SPECIFICATIONS.
7. ALL DISTURBED AREAS NOT RECEIVING CURB AND GUTTER, SIDEWALK, CONCRETE, ASPHALT, OR OTHER IMPROVEMENTS SHALL HAVE MINIMUM 4" TOPSOIL.

CONCRETE JOINT DETAILS

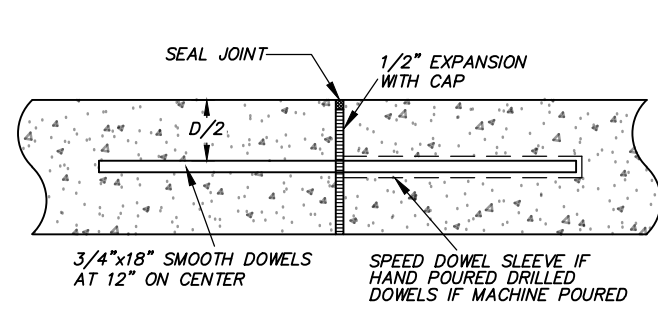
ISOLATION JOINTS ARE REQUIRED ALONG THE BUILDING, STAIRS AND ALL FIXED ITEMS. LEAVE JOINT 3" LOW AND SEAL. ISOLATION JOINTS SHALL BE SEALED USING A ONE PART POLYURETHANE TYPE SEALANT SUCH AS "SCORLOSTIC" N.S. 1" AS MADE BY SONNELLOR BUILDING PRODUCTS DIVISION OR "SKARLEX-1A" AS MADE BY SRA CHEMICAL CORP. OR "TOMTAC" 1" AS MADE BY PERCORA CORP. OR A ONE PART SILICONE HIGHWAY AND PAVEMENT SEALANT SUCH AS SPECTREM 800/900SL AS MADE BY TREMCO OR PERCORA 301 NS AS MADE BY PERCORA CORP. OR APPROVED EQUAL.

CONSTRUCTION JOINTS SHALL BE PLACED TO CONDUCE WITH CONTRACTION JOINT SPACING.

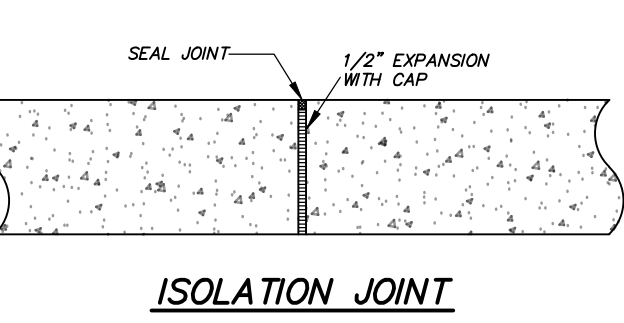
JOINT SPACING SHALL TYPICALLY BE SPACED 1-1/2 TIMES THE CONCRETE THICKNESS (MEASURED IN INCHES) IN FEET. (8-INCH CONCRETE EQUALS 9 FOOT JOINT SPACING) IN NO CASE SHALL THE JOINT SPACING EXCEED TWO TIMES THE THICKNESS (MEASURED IN INCHES) IN FEET.



CONSTRUCTION JOINT - DOWELED

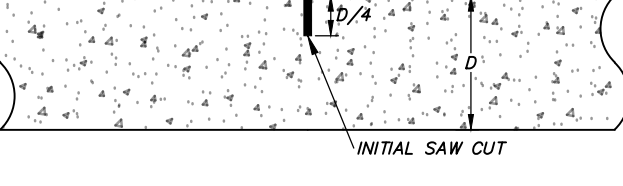


CONSTRUCTION JOINT - TIED

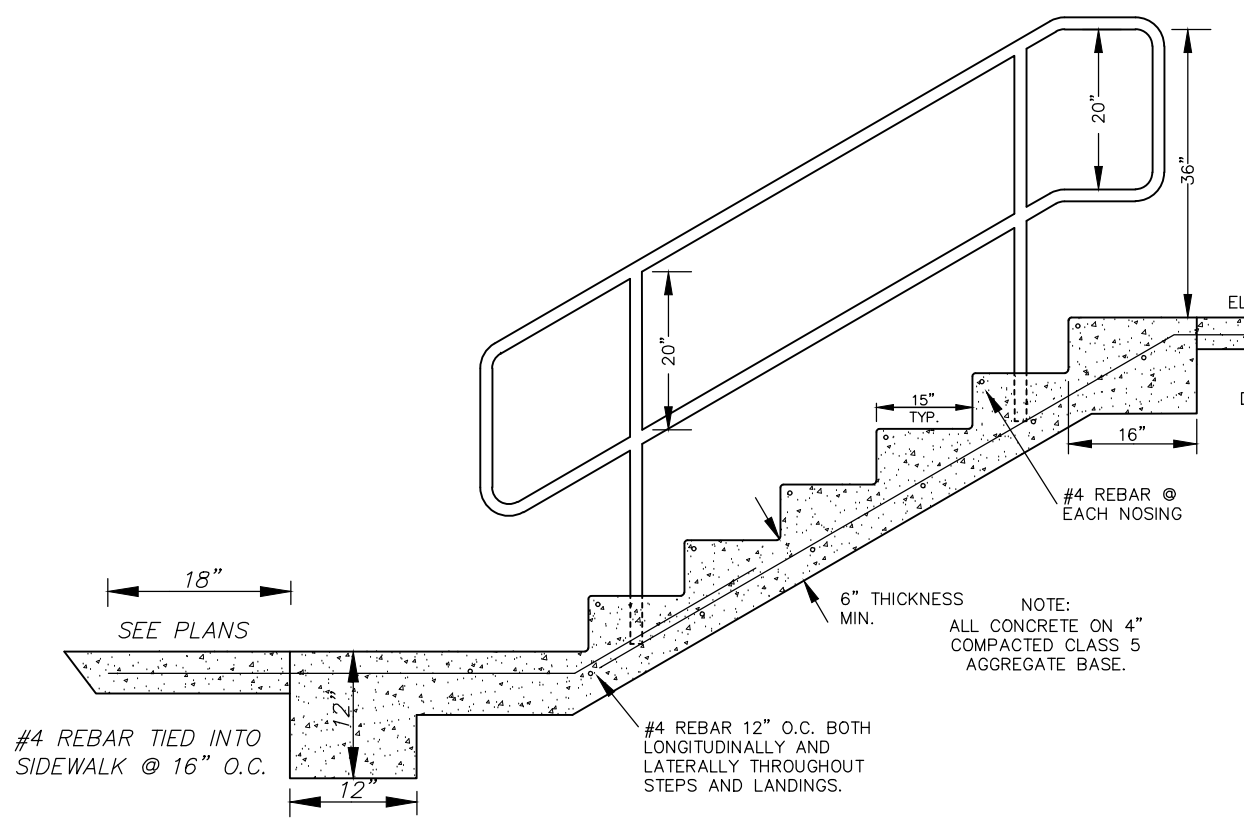
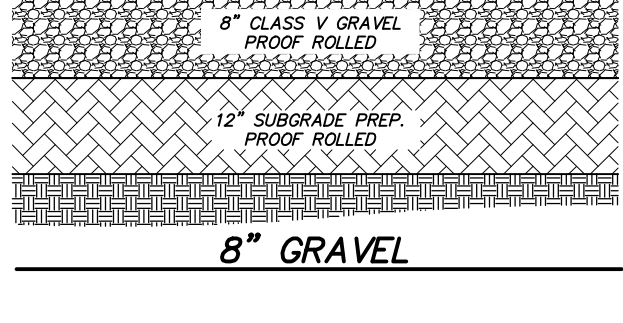
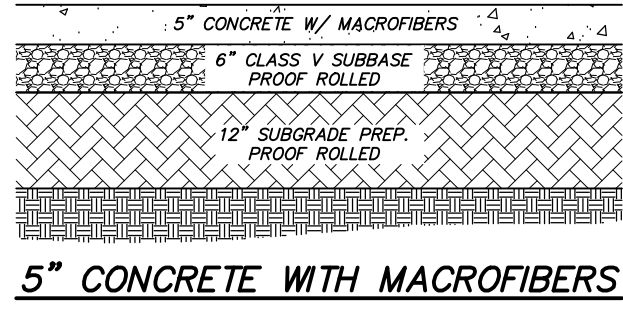


EXPANSION JOINT

WITH DOWELS

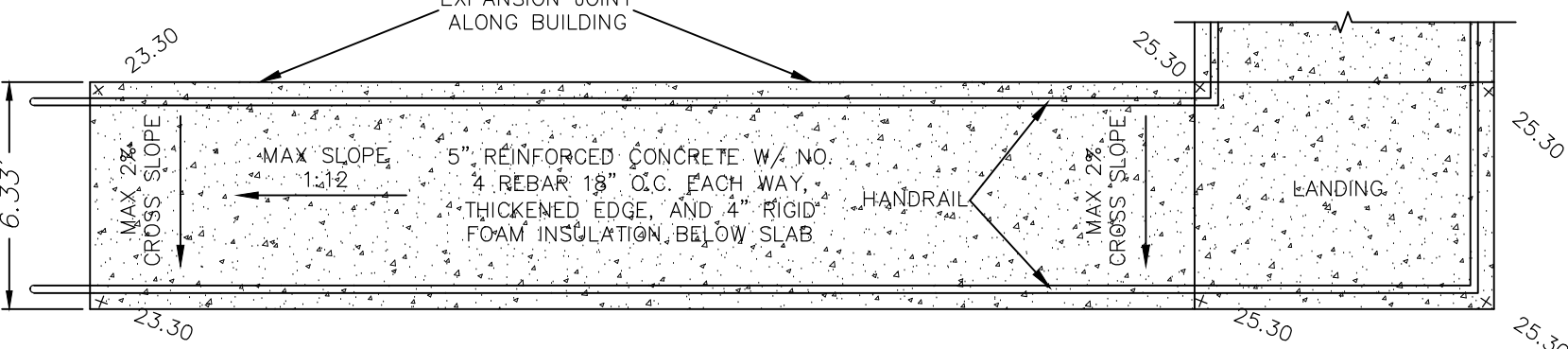


CONTRACTION JOINT - SAWED



TYPICAL STAIRCASE AND HANDRAIL DETAIL

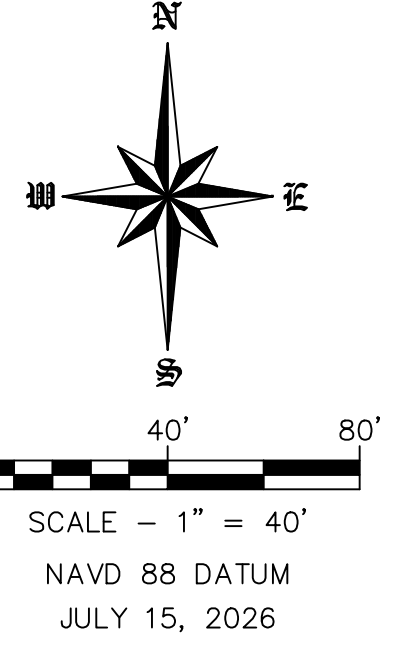
1. HANDRAIL SHALL BE 1-1/2" ROUND STEEL TUBING.
2. HANDRAIL SHALL BE COATED WITH TWO COATS SHERWIN WILLIAMS INDUSTRIAL ENAMEL (OR APPROVED EQUAL). COLOR TO MATCH OTHER HANDRAILS ON ESC. CAPRIS.
3. ALL REBAR SHALL HAVE MINIMUM COVER OF 2 INCHES.
4. MAXIMUM POST SPACING SHALL BE 8 FEET.



RAMP & HANDRAIL DETAIL

LEGEND

S	EXISTING SANITARY SEWER	XX-XX	EXISTING TRACK RAILS
W	EXISTING WATERMAIN	XX-XX	EXISTING CONTOUR
E	EXISTING UNDERGROUND ELECTRIC	XX-XX	EXISTING GRADE
FO	EXISTING UNDERGROUND FIBER OPTIC	XX-XX	PROPOSED SANITARY SEWER
O	EXISTING MANHOLE	XX-XX	PROPOSED WATER MAIN
△	EXISTING UTILITY RISER-VAULT	XX-XX	PROPOSED FENCE
□	EXISTING LIGHT-POWER POLE	XX-XX	PROPOSED CONCRETE
⊙	EXISTING VALVE	XX-XX	PROPOSED GRAVEL
⊕	EXISTING FIRE HYDRANT	XX-XX	PROPOSED CONTOUR
—	EXISTING FENCE	XX-XX	PROPOSED GRADE
—	EXISTING HORSE TRACK	XX-XX	PROPOSED INSULATION
—	EXISTING CONCRETE		
—	EXISTING GRAVEL		



WARRANTY / DISCLAIMER
The designs represented in these plans are in accordance with established practices of civil engineering. However, neither Swenson, Hagen & Co., nor its personnel can or do warrant these plans as constructed except in the specific cases where Swenson, Hagen & Co. personnel inspect and control the physical construction on a full time basis.

SAFETY NOTICE TO CONTRACTOR
In accordance with generally accepted construction practices the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal business hours.

NOTICE TO CONTRACTOR
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representatives. The Contractor shall determine the exact location of existing utilities before commencing work, and agree to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities.

CALL BEFORE YOU DIG
NORTH DAKOTA
UTILITIES UNDERGROUND LOCATION SERVICE
1-800-795-0555

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DATE

REVISIONS

GRADING & PAVING PLAN

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Surveying
Hydrology
Land Planning
Civil Engineering
Landscape & Site Design
Construction Management

DRAWN BY: SR

CHECK BY: JP

DATE: 07/15/2026

PROJ.#:

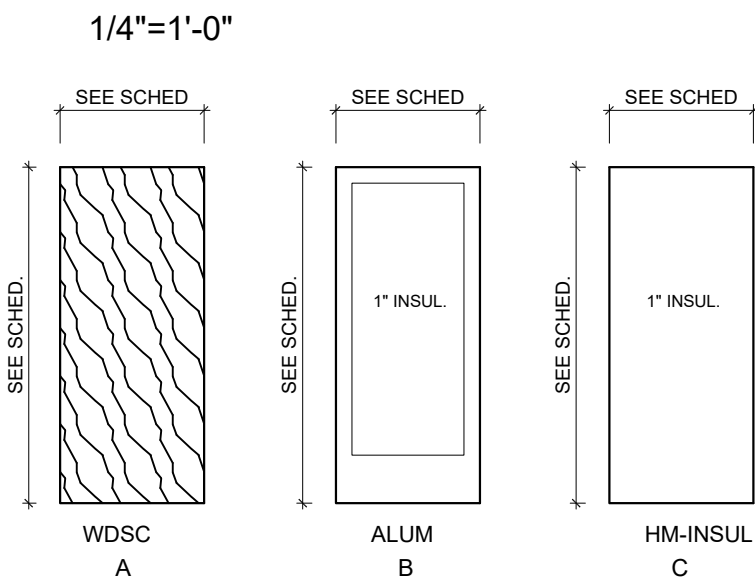
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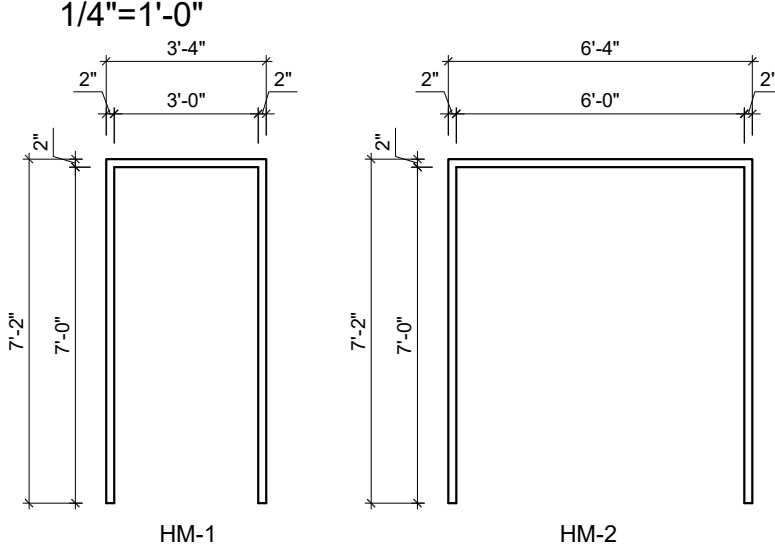
SHEET

C4.0

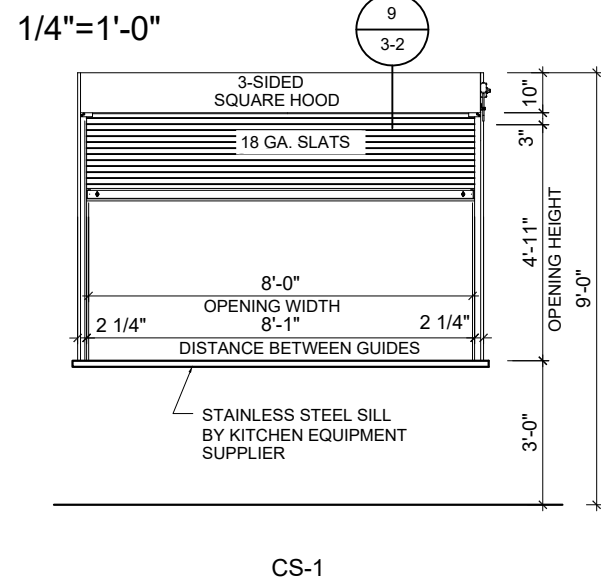
DOOR TYPES



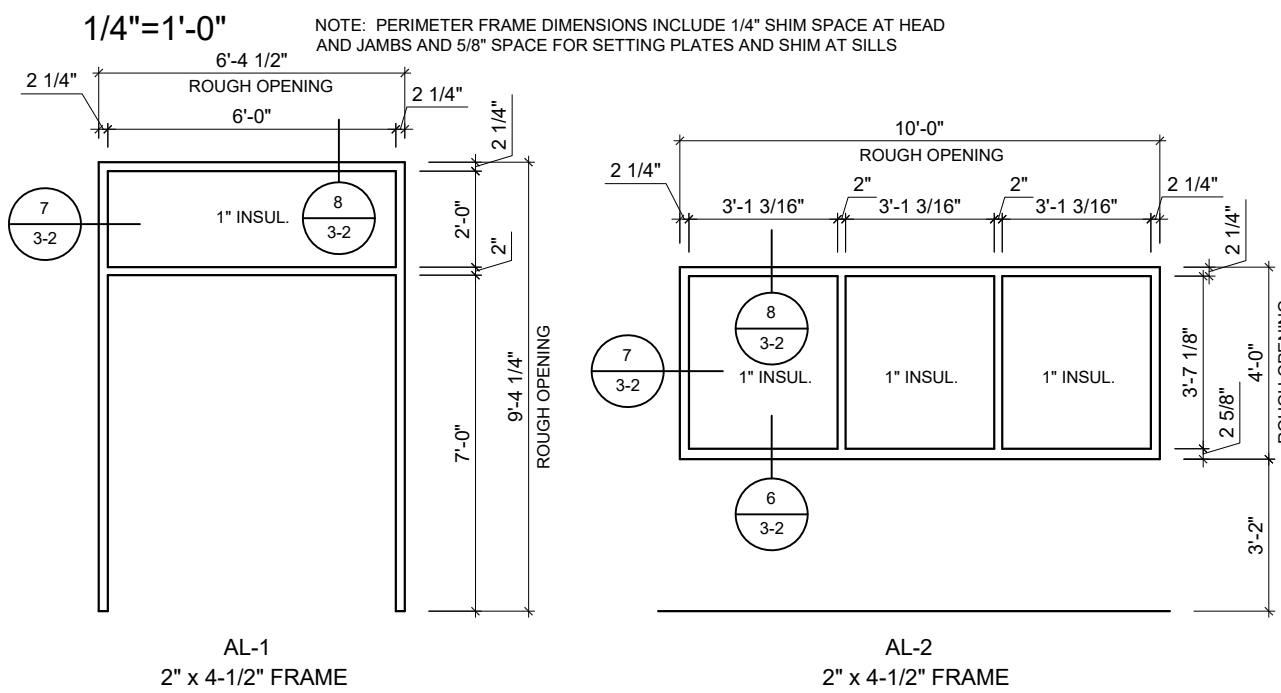
HM ELEV



COUNTER SHUTTER



ALUMINUM FRAME ELEVATIONS



DOOR SCHEDULE

NO.	SIZE	DOOR			FRAME		NOTES
		TYPE	MATL	HARDWARE	MATL	THROAT	
1001	3'-0" X 7'-0"	B	ALUM	EXIT	AL		AL-1
1002	3'-0" X 7'-0"	B	ALUM	EXIT	AL		NOTE 1
1003	3'-0" X 7'-0"	B	ALUM	EXIT	AL		NOTE 1
1004	3'-0" X 7'-0"	B	ALUM	EXIT	AL		AL-1
1011	3'-0" X 7'-0"	A	WDSC	OFFICE	HM	6-1/2"	HM-1
1012	3'-0" X 7'-0"	A	WDSC	OFFICE	HM	4-1/2"	HM-1
1031	3'-0" X 7'-0"	A	WDSC	PRIVACY	HM	5-1/2"	HM-1
1041	3'-0" X 7'-0"	A	WDSC	PUSH/PULL	HM	5-1/2"	HM-1
1051	3'-0" X 7'-0"	C	HM-INSUL	EXIT	HM	6-1/2"	HM-2
1052	3'-0" X 7'-0"	C	HM-INSUL	EXIT	HM	6-1/2"	HM-2
1061	3'-0" X 7'-0"	A	WDSC	PUSH/PULL	HM	5-1/2"	HM-1
1071	3'-0" X 7'-0"	A	WDSC	OFFICE	HM	6-1/2"	HM-1
1081	3'-0" X 7'-0"	A	WDSC	OFFICE	HM	6-1/2"	HM-1
1091	3'-0" X 7'-0"	A	WDSC	STOREROOM	HM	6-1/2"	HM-1
1111	3'-0" X 7'-0"	A	WDSC	STOREROOM	HM	6-1/2"	HM-1
1121	3'-0" X 7'-0"	A	WDSC	OFFICE	HM	4-1/2"	HM-1
1131	3'-0" X 7'-0"	A	WDSC	OFFICE	HM	4-1/2"	HM-1
1141	3'-0" X 7'-0"	A	WDSC	OFFICE	HM	4-1/2"	HM-1

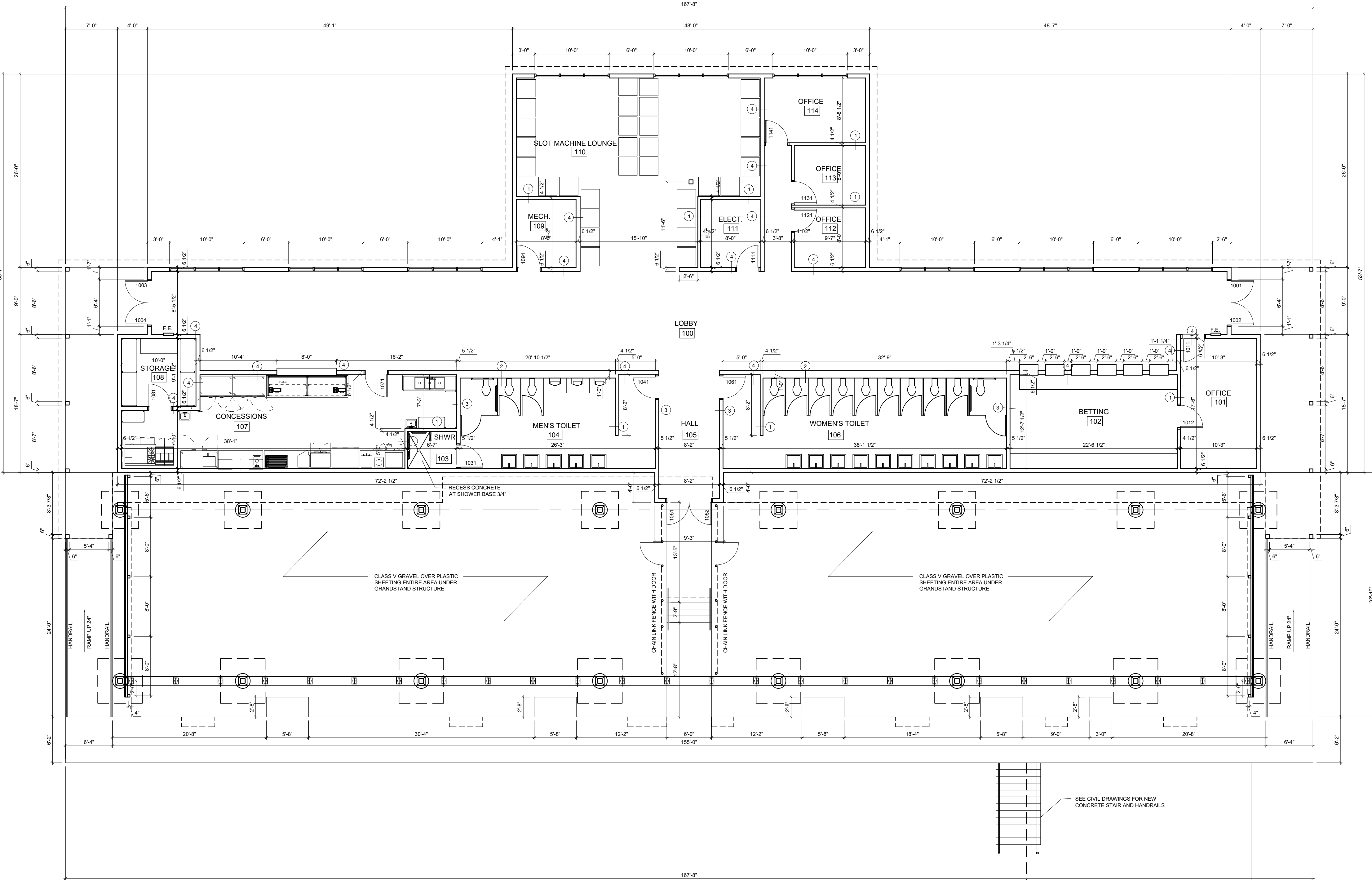
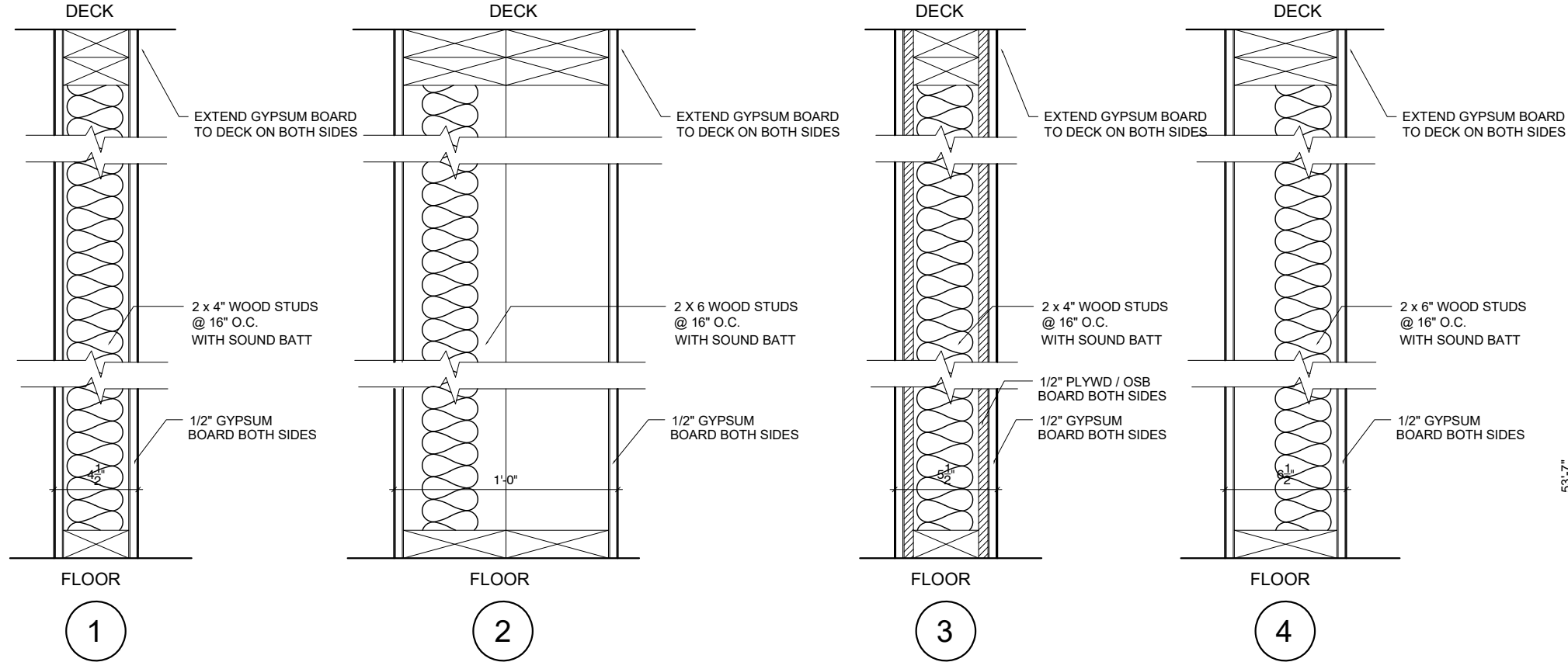
DOOR NOTES
1. INCLUDE DOOR OPERATOR WITH RAIL MOUNTED BUTTON OUTSIDE, WALL MOUNTED INSIDE

ROOM FINISH SCHEDULE

NO.	NAME	FLOOR FINISH	BASE	WALL FINISH	CLG. FIN.	CLG. HT.
100	LOBBY	L.V.P.	VINYL	GWB-PT	ACT	9'-0"
101	OFFICE	L.V.P.	VINYL	GWB-PT	ACT	9'-0"
102	BETTING	L.V.P.	VINYL	GWB-PT	ACT	9'-0"
103	SHOWER	L.V.P.	TILE	6" x 6" TILE	GWB-PT	8'-0"
104	MEN'S RESTROOM	L.V.P.	TILE	6" x 6" TILE	ACT	9'-0"
105	HALL	L.V.P.	VINYL	GWB-PT	ACT	9'-0"
106	WOMEN'S RESTROOM	L.V.P.	TILE	6" x 6" TILE	ACT	9'-0"
107	CONCESSIONS	L.V.P.	VINYL	FRP PANELS	ACT-2	9'-0"
108	STORAGE	L.V.P.	VINYL	GWB-PT	GWB-PT	10'-0"
109	MECHANICAL	CONC-S	VINYL	GWB-PT	GWB-PT	10'-0"
110	SLOT MACHINE LOUNGE	L.V.P.	VINYL	GWB-PT	ACT	9'-0"
111	ELECTRICAL	CONC-S	VINYL	GWB-PT	GWB-PT	10'-0"
112	OFFICE	L.V.P.	VINYL	GWB-PT	ACT	9'-0"
113	OFFICE	L.V.P.	VINYL	GWB-PT	ACT	9'-0"
114	OFFICE	L.V.P.	VINYL	GWB-PT	ACT	9'-0"

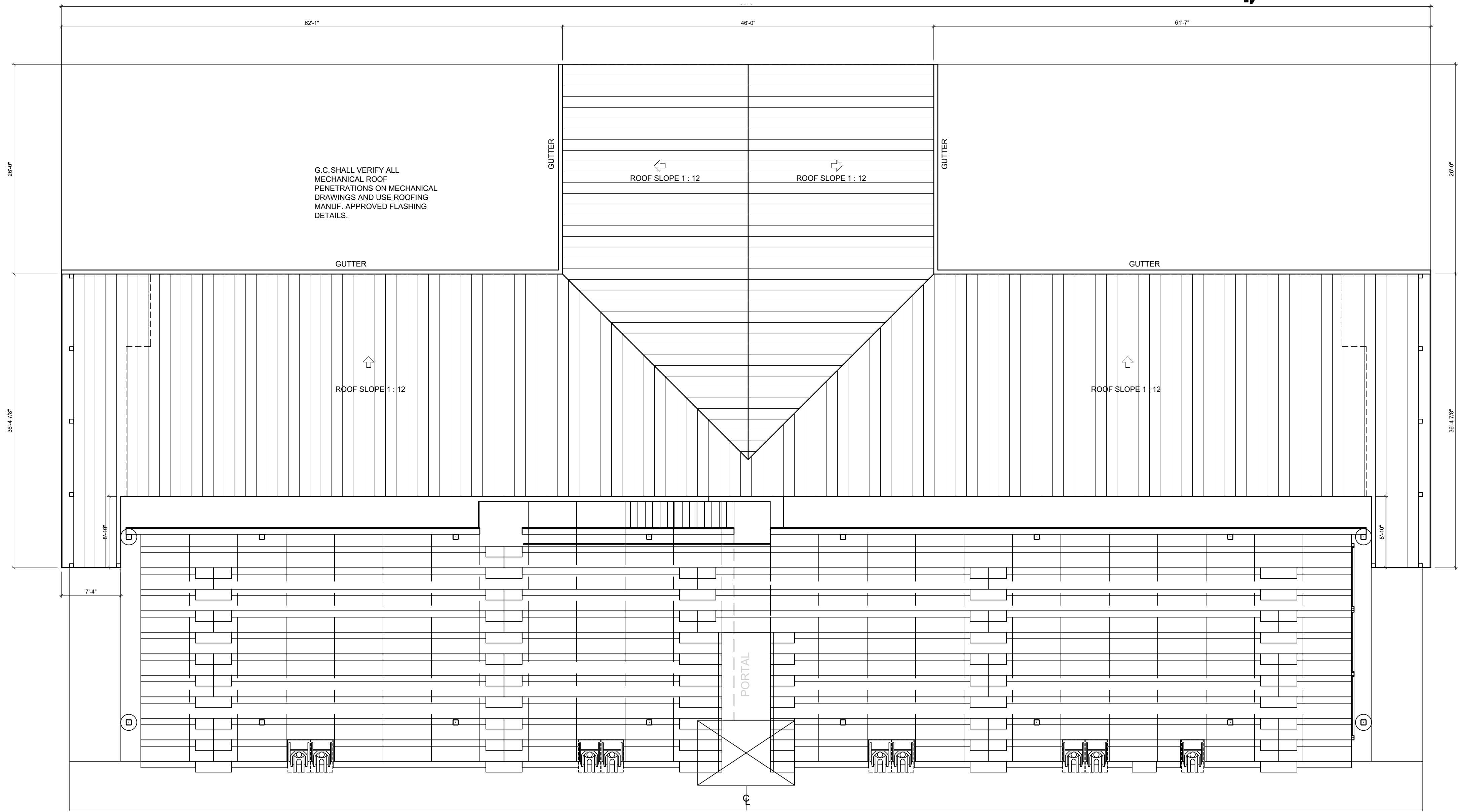
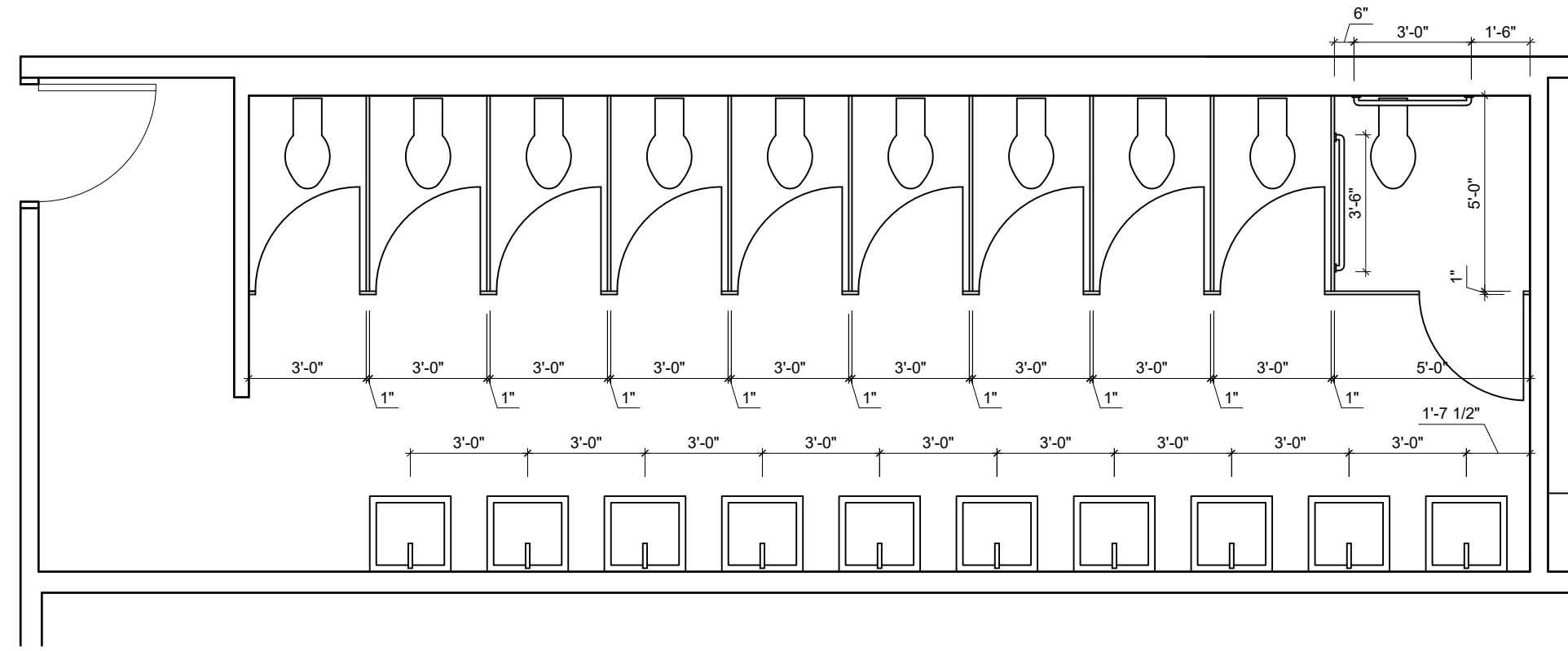
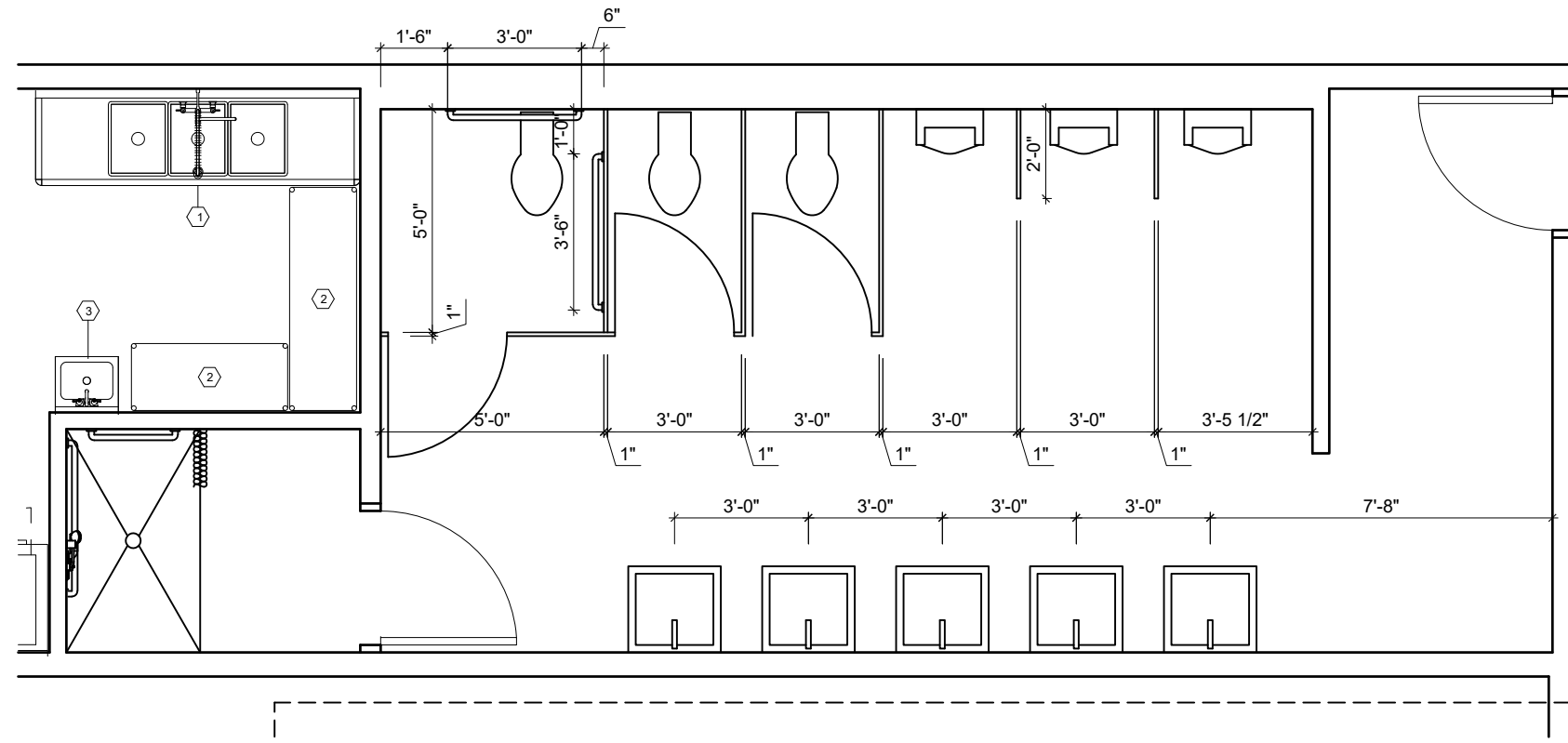
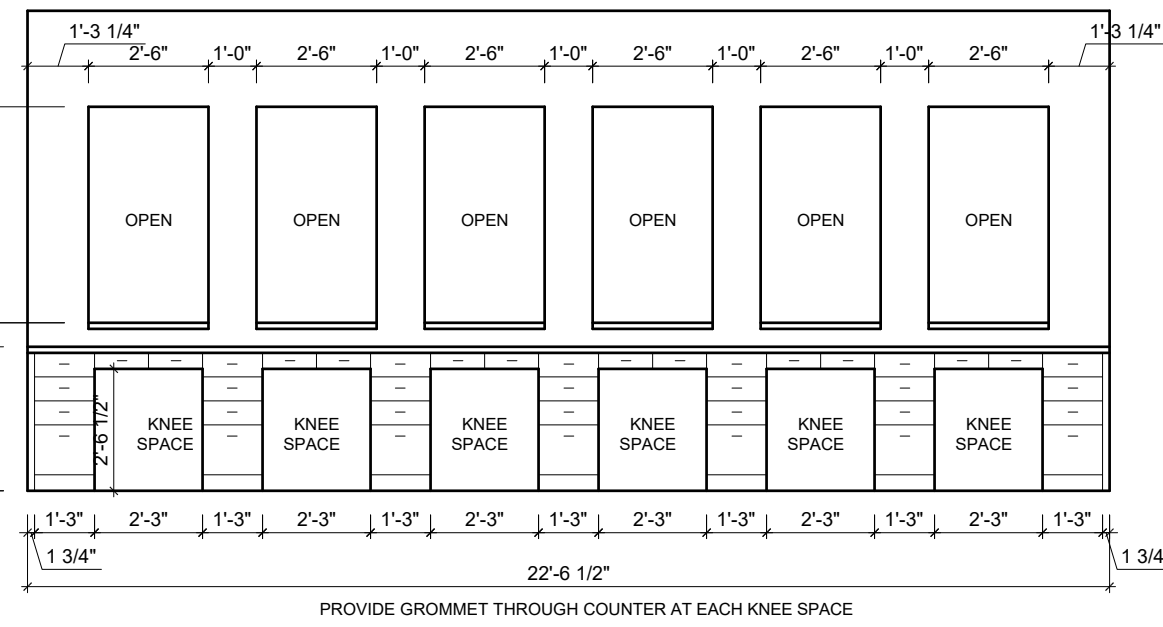
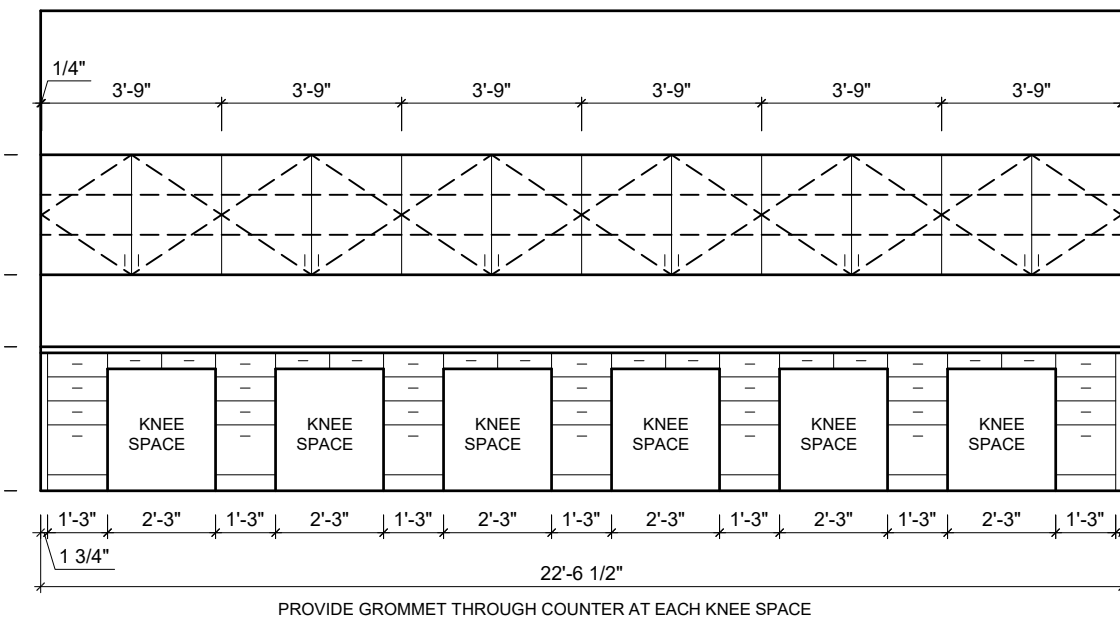
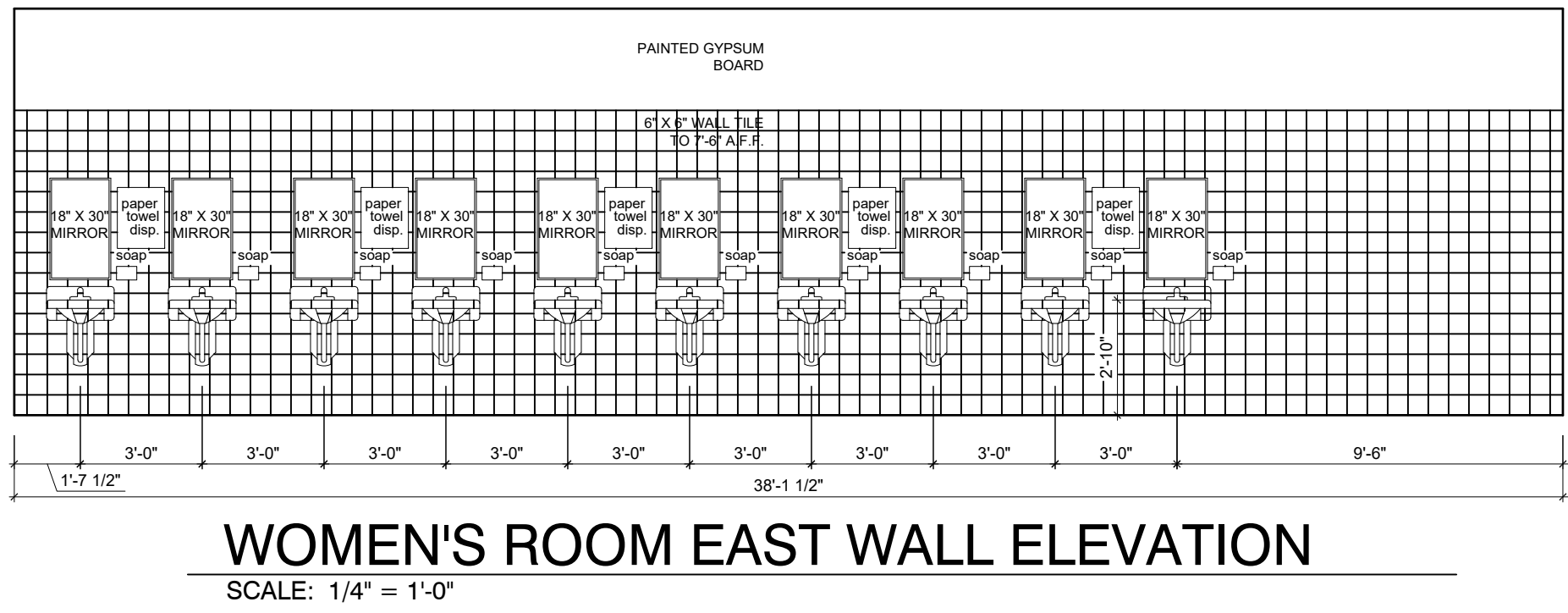
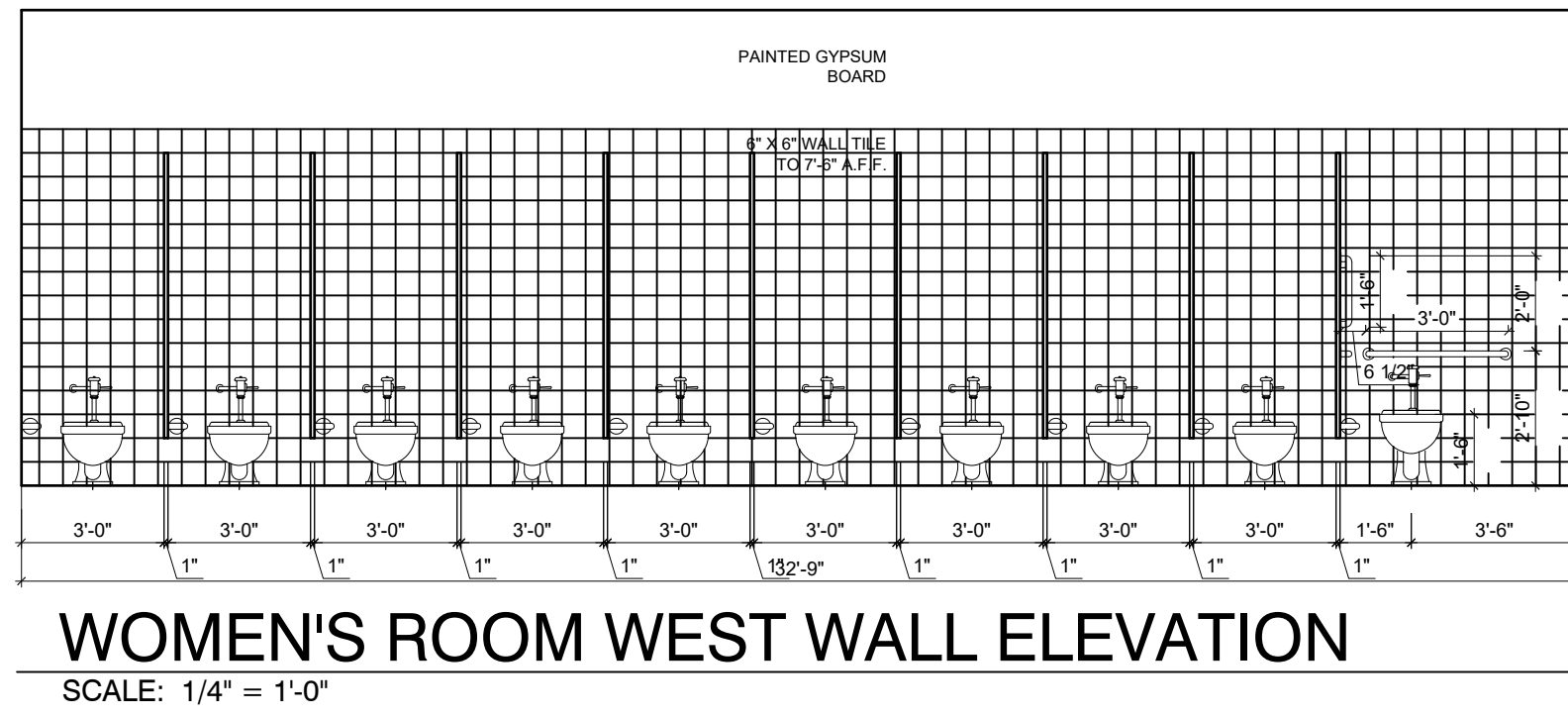
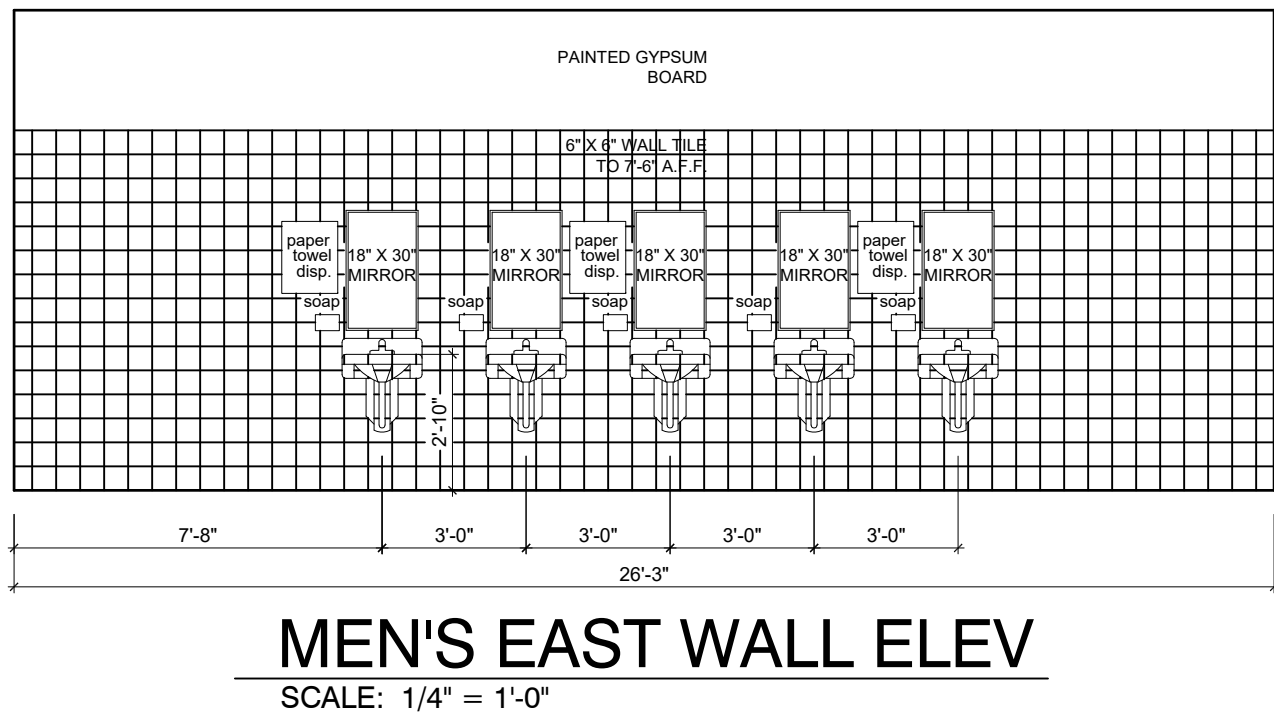
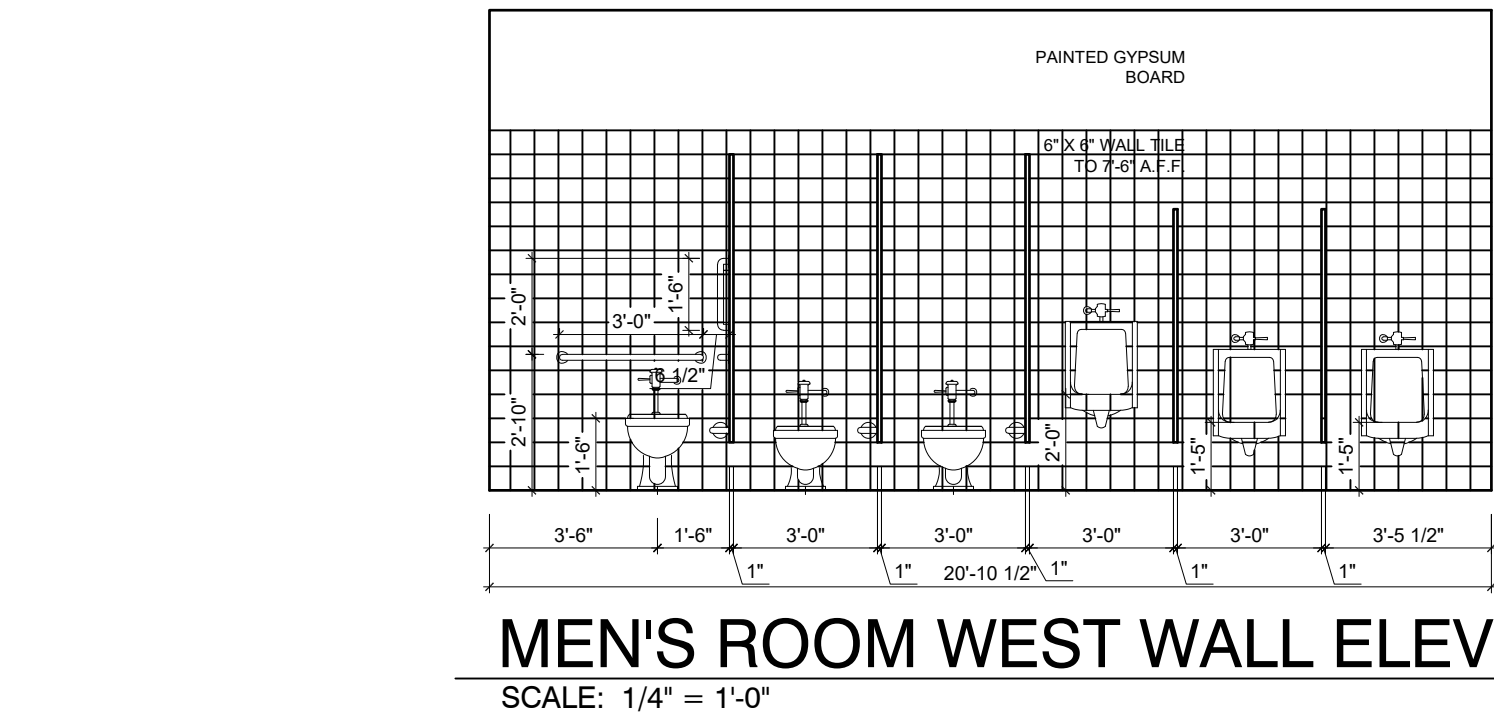
WALL TYPES

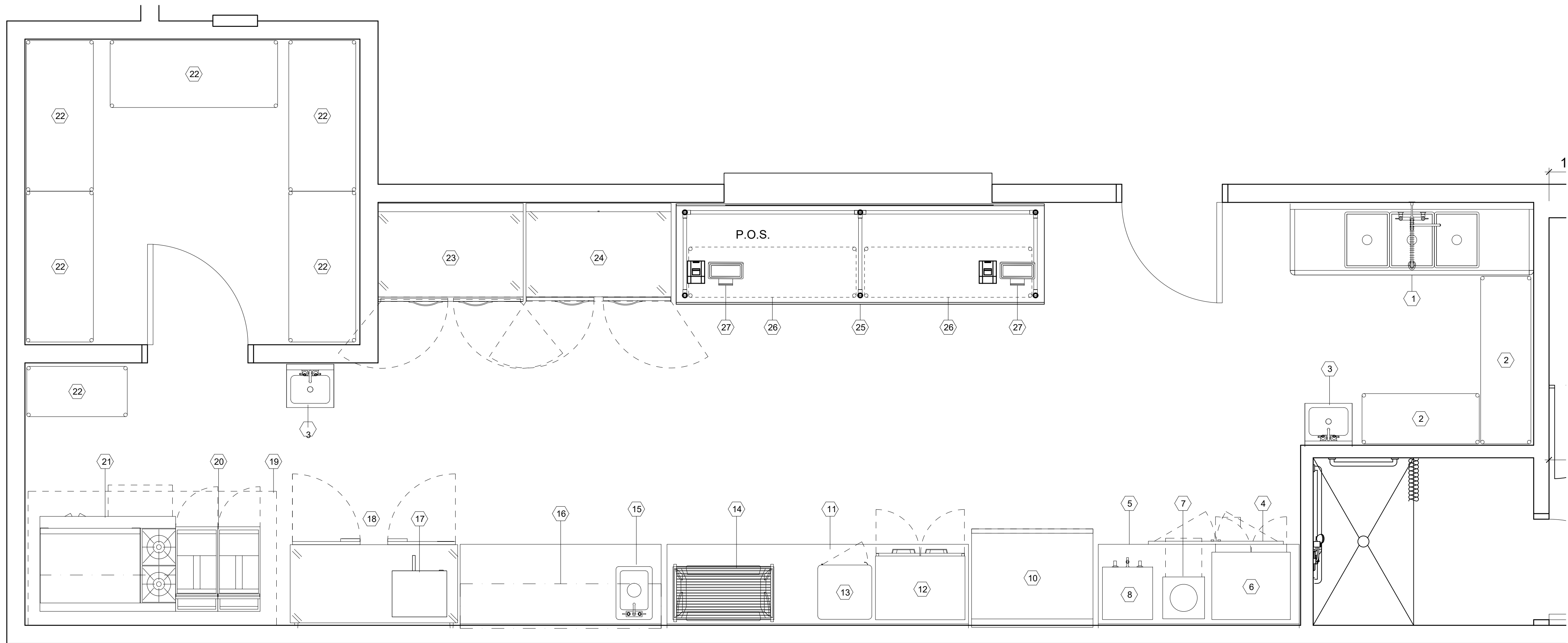
1-1/2"=1'-0"



BUILDING FLOOR PLAN

SCALE: 1/8" = 1'-0" SEATING 800





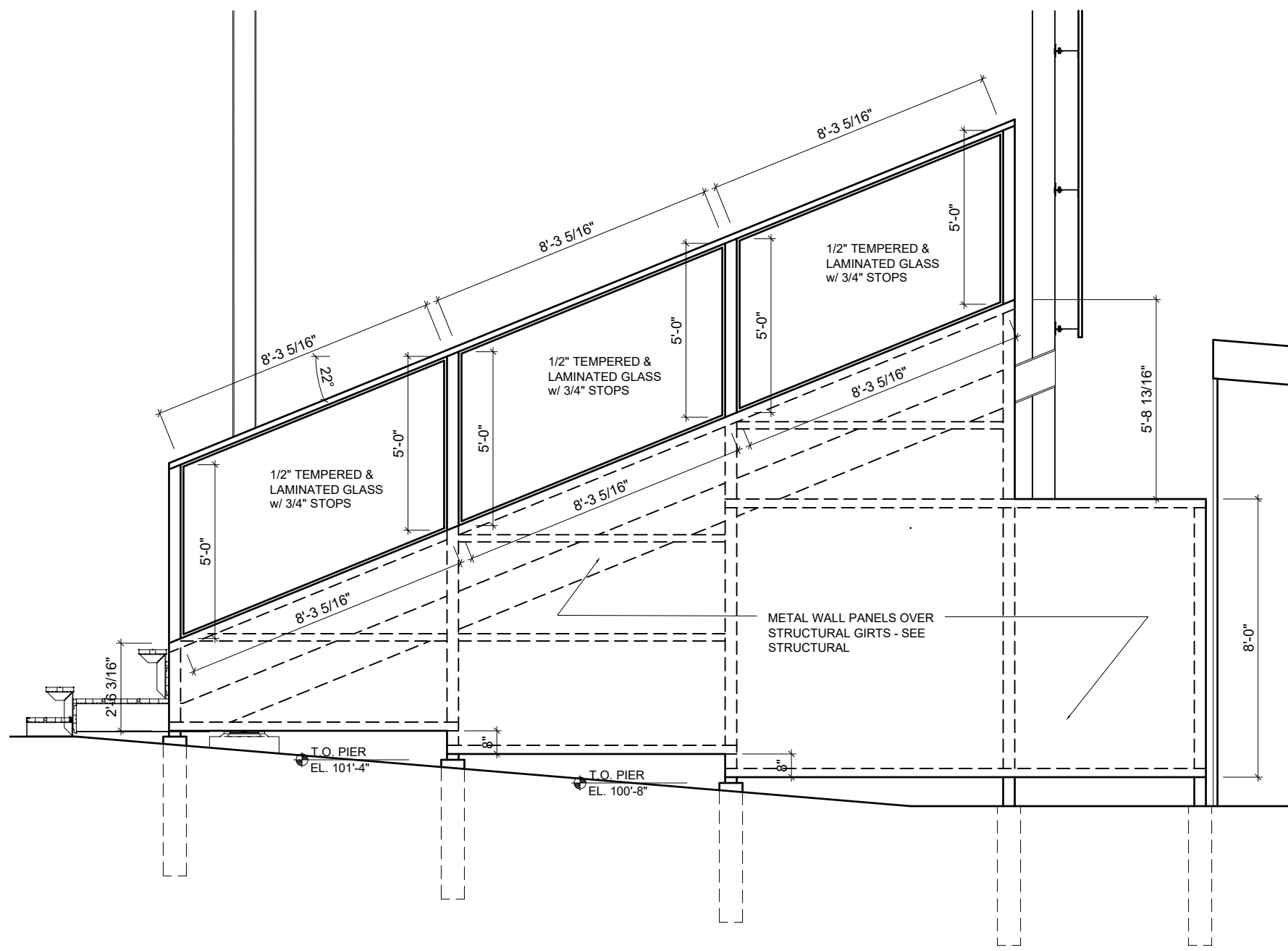
ENLARGED KITCHEN PLAN

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

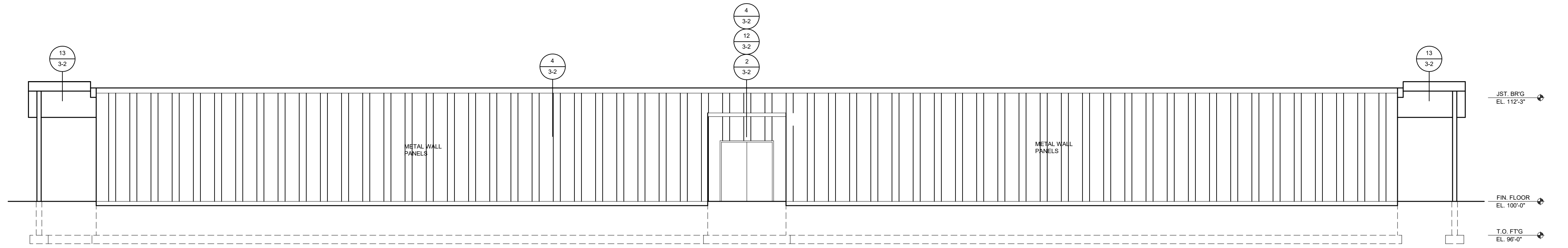


1/2" = 1'-0"

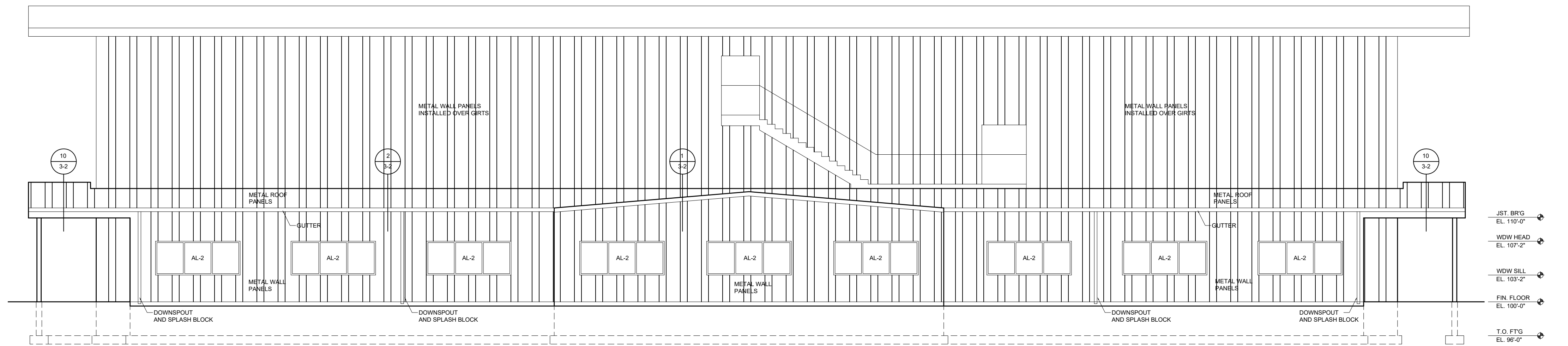
ItemNo	Quantity	Category	Mfr	Model	Voltage	Phase	Amps	Cycle	Hp	Kw	ConnectionType	NEMA	Cold Water (in)	Hot Water (in)	Indirect Waste Size	Direct Waste Size	Equipment Remarks	Gas MBTU	Gas Size(in)
1	1	THREE (3) COMPARTMENT SINK	JOHN BOOS	3B16204-2D18-X															
	1		JOHN BOOS	3B16204-2D18-X															
	1		JOHN BOOS	3B16204-2D18-X															
2	4	WIRE SHELVEING	METRO	A1860NK3															
	4	WIRE SHELVEING	METRO	A1842NK3															
3	2	HAND SINK	JOHN BOOS	PBHS-W-1410-P-SSLR-X									1/2"	1/2"					
4	1	UNDERCOUNTER REFRIGERATOR	TRUE MFG. - GENERAL...	TUC-48G-HC~FGD01	115	1	2	60	0.2		CORD & PLUG								
5	1	WORK TABLE, 72", STAINLESS STEEL TOP	JOHN BOOS	ST6R5-3072GBK-X															
6	1	POPCORN POPPER	GOLD MEDAL	2005ST	120	1		60		1.61	CORD & PLUG	5-15P							
7	1	NACHO CHEESE / CHIPS WARMER,....	GOLD MEDAL	2206	120	1		60		.362	CORD & PLUG	5-15P							
8	1	COFFEE BREWER	BUNN	20900.0011	120/240	1	29.0	60		6.89			1/4"						
9	1	WATER FILTRATION SYSTEM, FOR COFF...	3M PURIFICATION	BREW120-MS									3/8"						
10	1	REFRIGERATED MERCHANDISER	BEVERAGE AIR	MMR35HC-1-B	115	1	2.4	60	1/4		CORD & PLUG	5-15P							
11	1	WORK TABLE, CABINET BASE OPEN...	JOHN BOOS	EBOS6R5-30108															
12	1	DISPLAY CASE, HOT FOOD, COUNTERTOP	HATCO	WFST-1X	120	1	14.9	60		1.79	CORD & PLUG	5-15P							
13	1	DISPLAY CASE, HOT FOOD, COUNTERTOP	HATCO	FDWD-1						1.39									
	1		HATCO		120	1	11.3	60		1.36	CORD & PLUG	5-15P							
14	1	HOT DOG GRILL	STAR (MIDDLEBY)	30SCBDE	120	1	9.6	60		1.15	CORD & PLUG	5-15P							
15	1	WORK TABLE, 72", STAINLESS STEEL TOP	JOHN BOOS	ST6R5-3072GBK															
	1		JOHN BOOS	CUT1416126															
	1		JOHN BOOS	PBF-4DM-5GLF									1/2"	1/2"					
16	1	SHELVEING, WALL MOUNTED	JOHN BOOS	BHS1672-14/304															
17	2	PIZZA BAKE OVEN, COUNTERTOP,....	BAKERS PRIDE (MIDDLEBY)	PX-14	120	1	12.5	60		1.5	CORD & PLUG	5-15P							
18	1	WORKTOP FREEZER	BEVERAGE AIR	WTF60AHC	115	1	7	60	1/2		CORD & PLUG	5-15P							
19	1	EXHAUST HOOD	CUSTOM	8 FT															
20	2	GAS FLOOR FRYER	AMERICAN RANGE	AF-50														120.0	3/4"
21	1	RANGE, 48" 2 OPEN BURNER, 1 36"...	AMERICAN RANGE	AR-36G-2B-CL-SBR	120	1	4	60			CORD, NO PLUG							151000	
22	8	WIRE SHELVEING	METRO	A2454NK3															
	8	WIRE SHELVEING	METRO	A2460NK3															
	4	WIRE SHELVEING	METRO	A1836NK3															
	20	POST	METRO	74PK3															
23	1	REACH-IN FREEZER	BEVERAGE AIR	FB49HC-1S	115	1	11	60	3/4		CORD & PLUG	5-15P							
24	1	REACH-IN REFRIGERATOR	BEVERAGE AIR	RB49HC-1S	115	1	5.4	60	1/3		CORD & PLUG	5-15P							
25	1	WORK TABLE, STAINLESS STEEL TOP	JOHN BOOS	ST6-36132GBK															
26	4	WIRE SHELVEING	METRO	A1860NC															
	8	POST	METRO	27P															
27	1	POINT-OF-SALE SYSTEMS	CUSTOM	BY OTHERS															



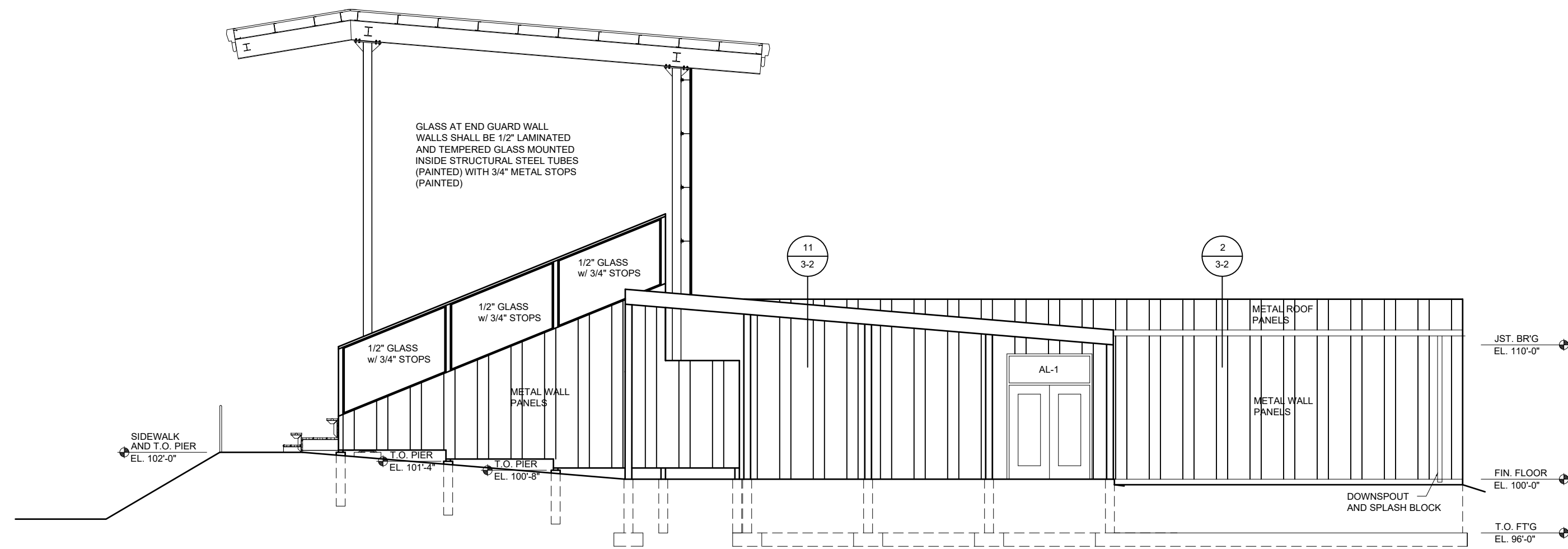
5 GRANDSTAND ENDWALL
SCALE: 1/4" = 1'-0"



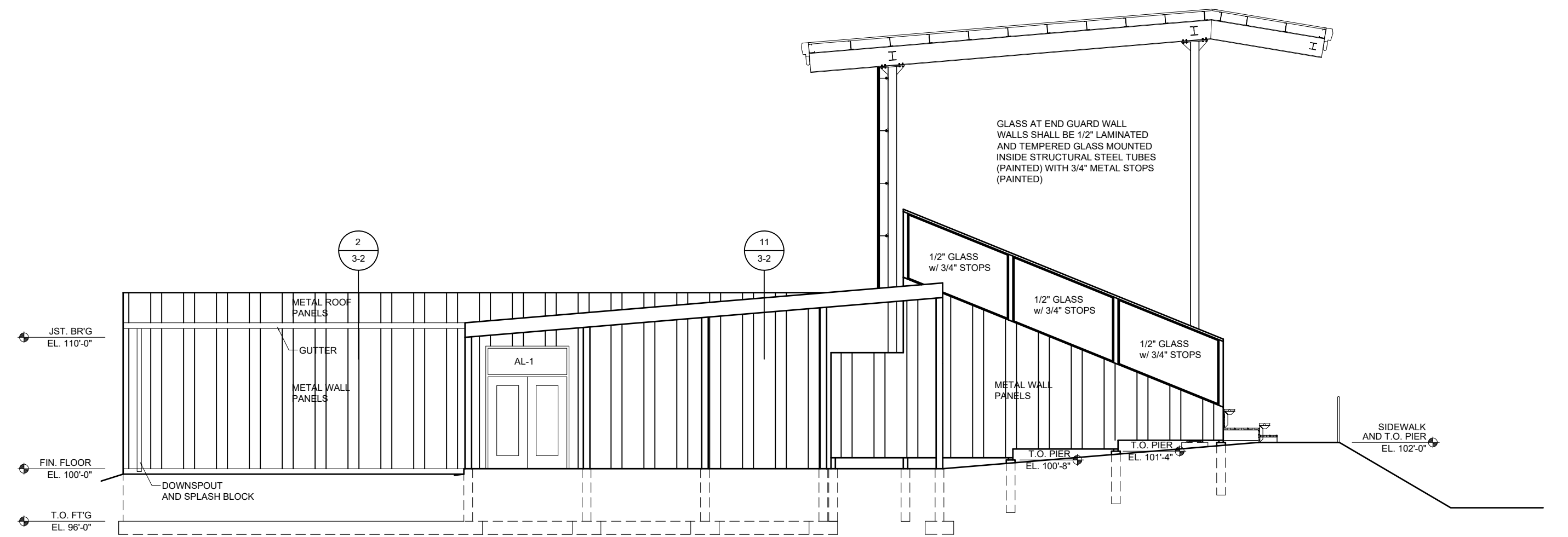
4 EAST ELEVATION
SCALE: 1/8" = 1'-0"



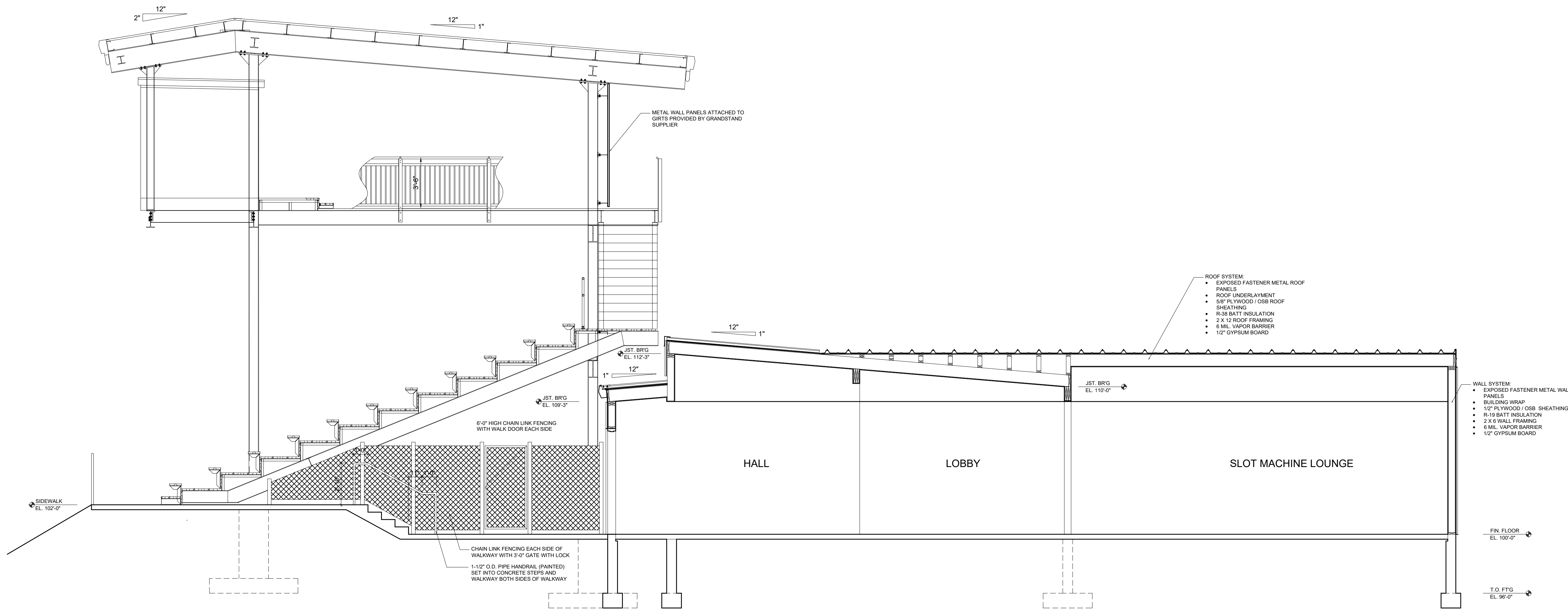
3 WEST ELEVATION
SCALE: 1/8" = 1'-0"



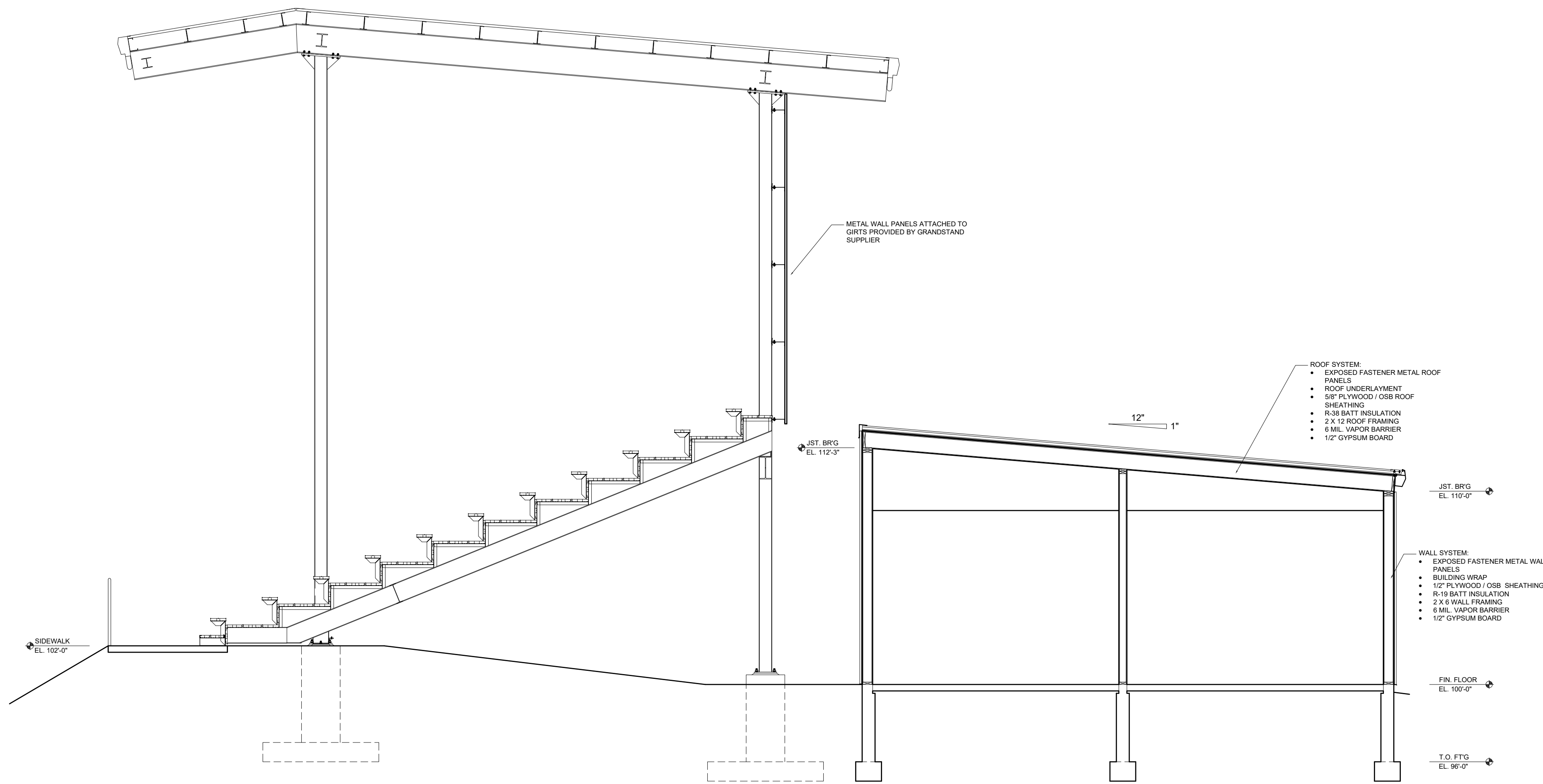
2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



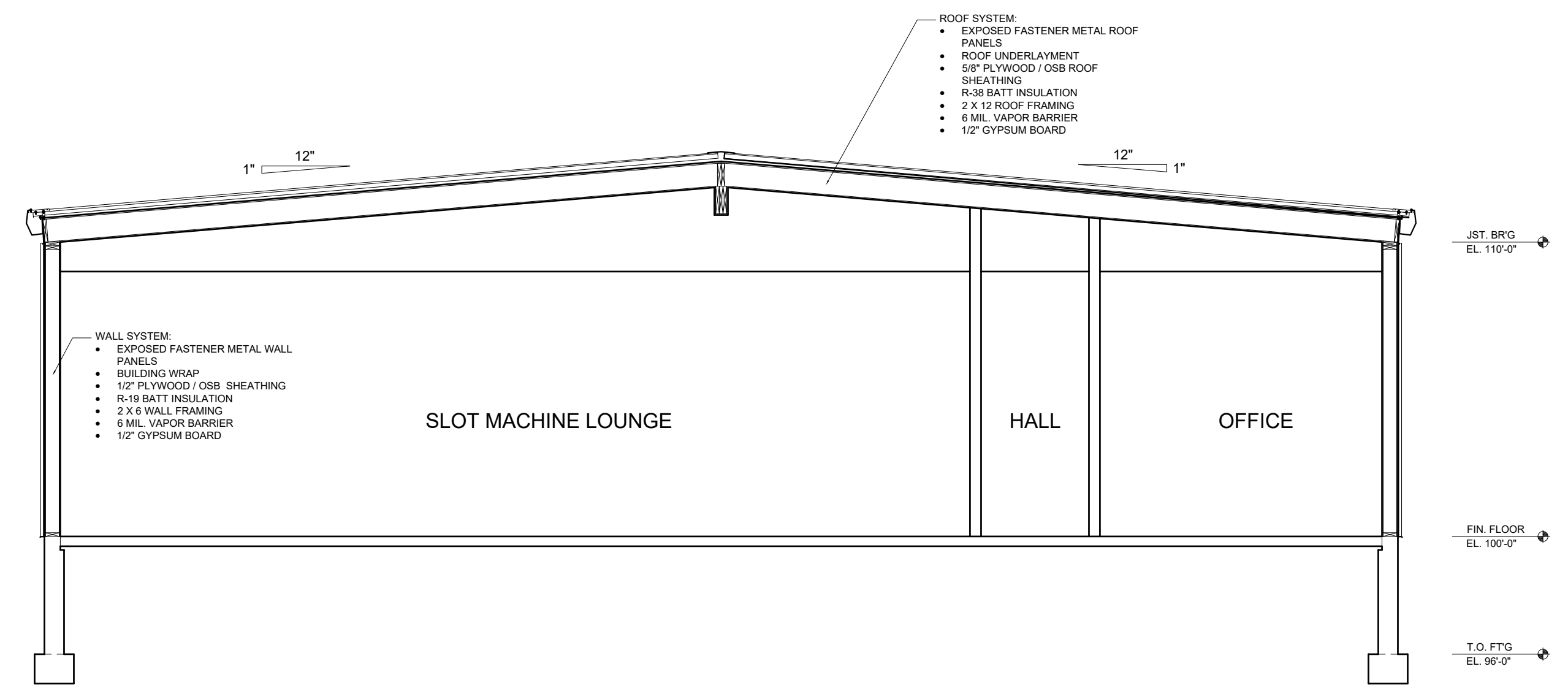
1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



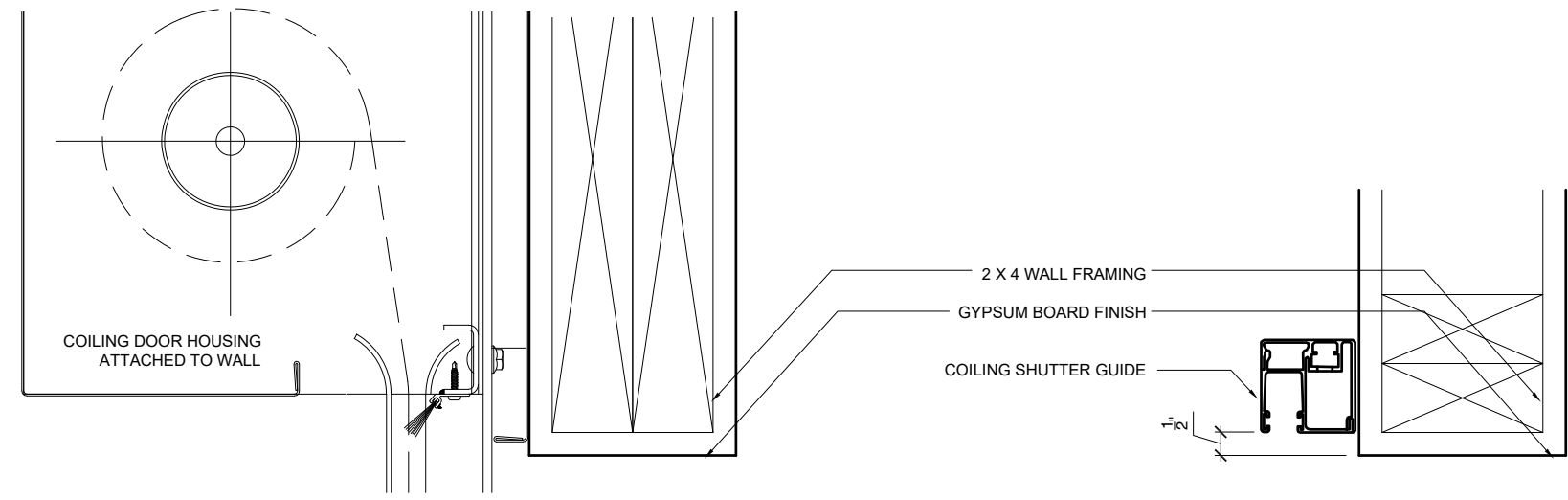
3
3-1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



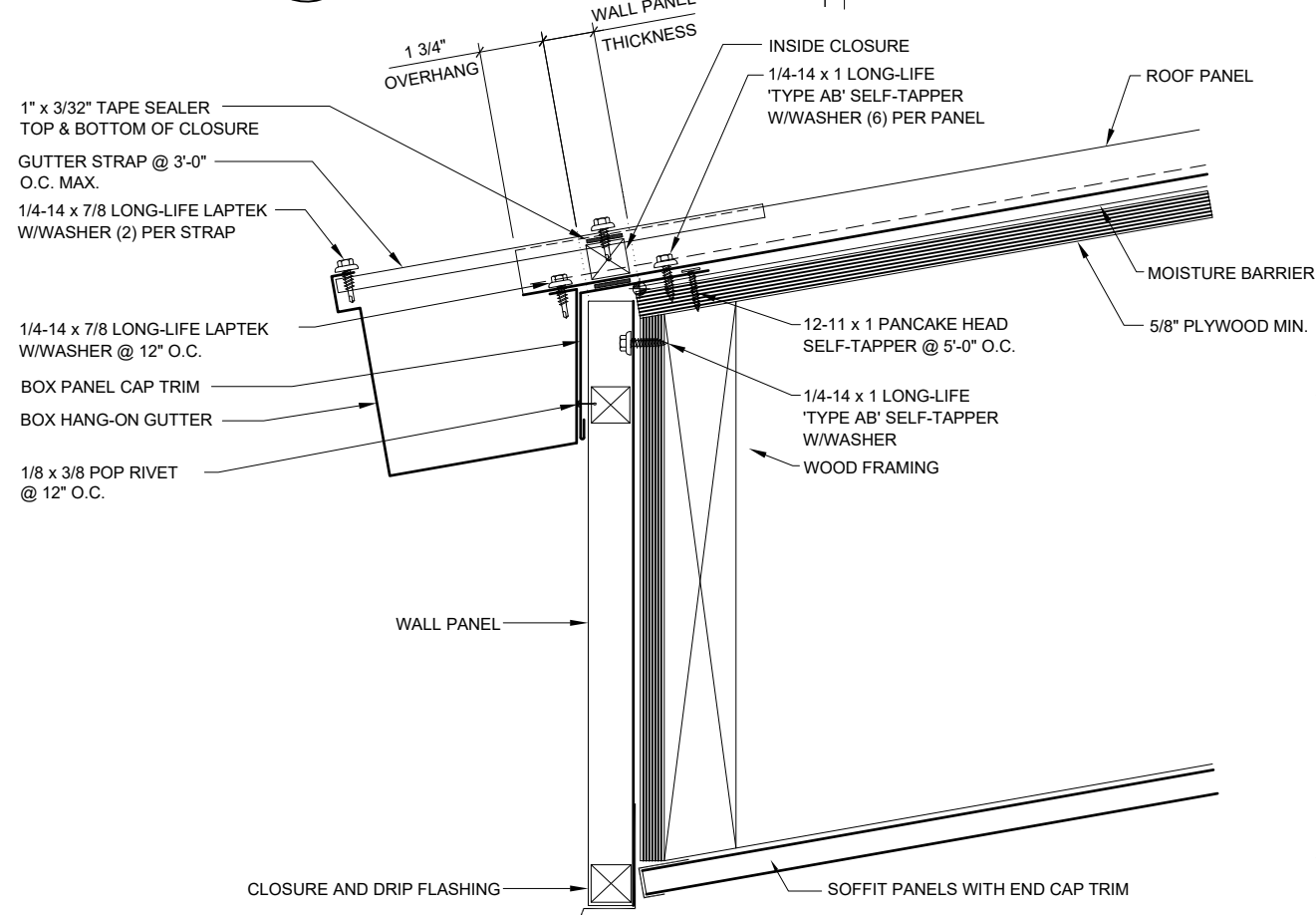
2
3-1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



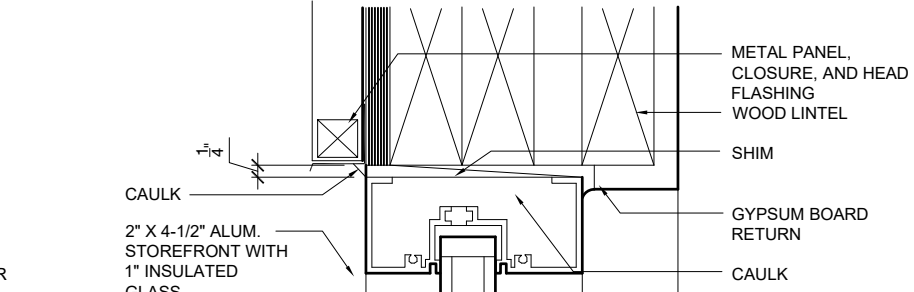
1
3-1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



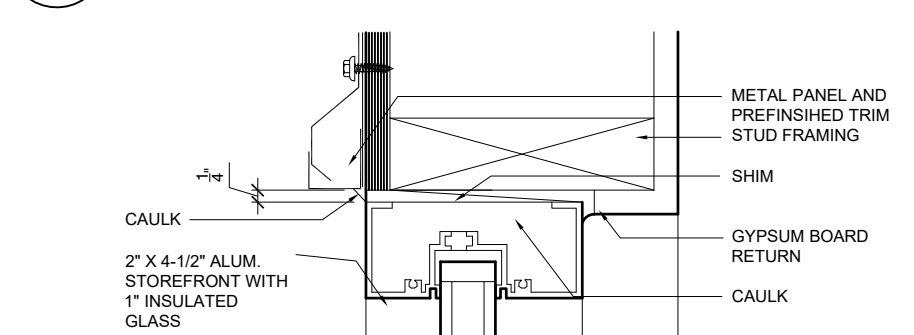
9
3-2 COUNTER SHUTTER HEAD
SCALE: 3" = 1'-0"



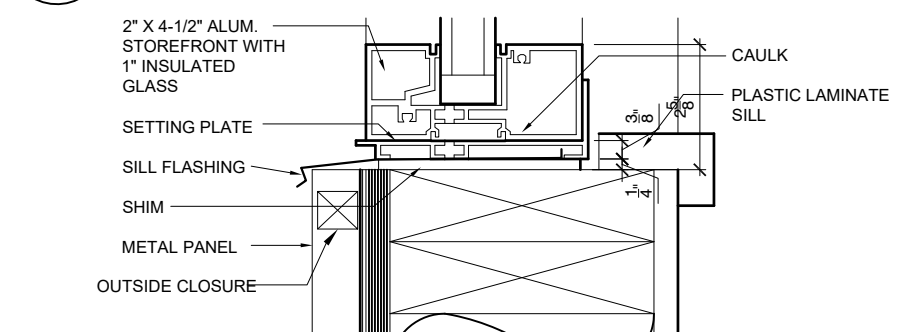
COUNTER SHUTTER JAMB
SCALE: 3" = 1'-0"



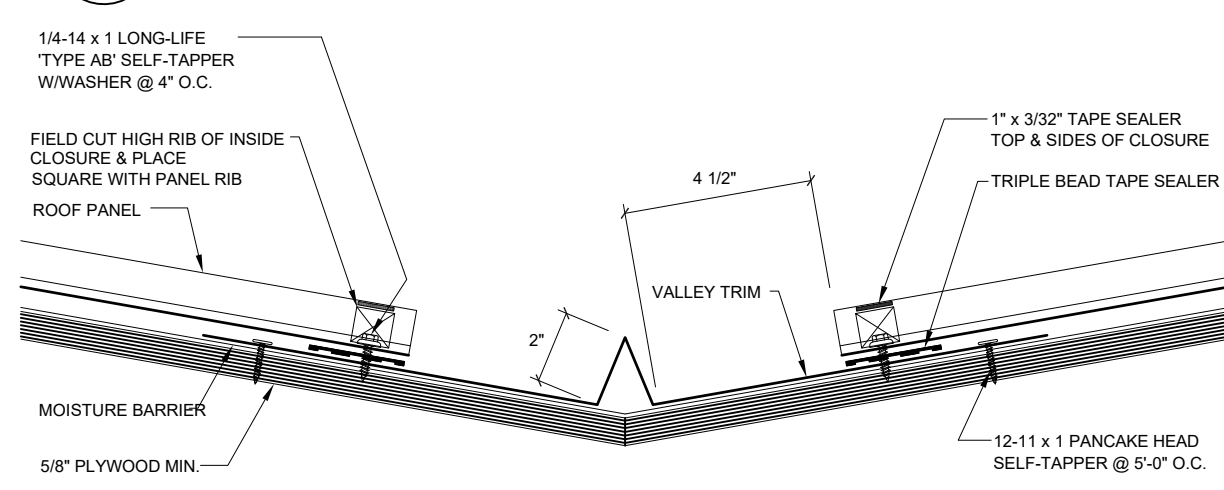
8
3-2 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



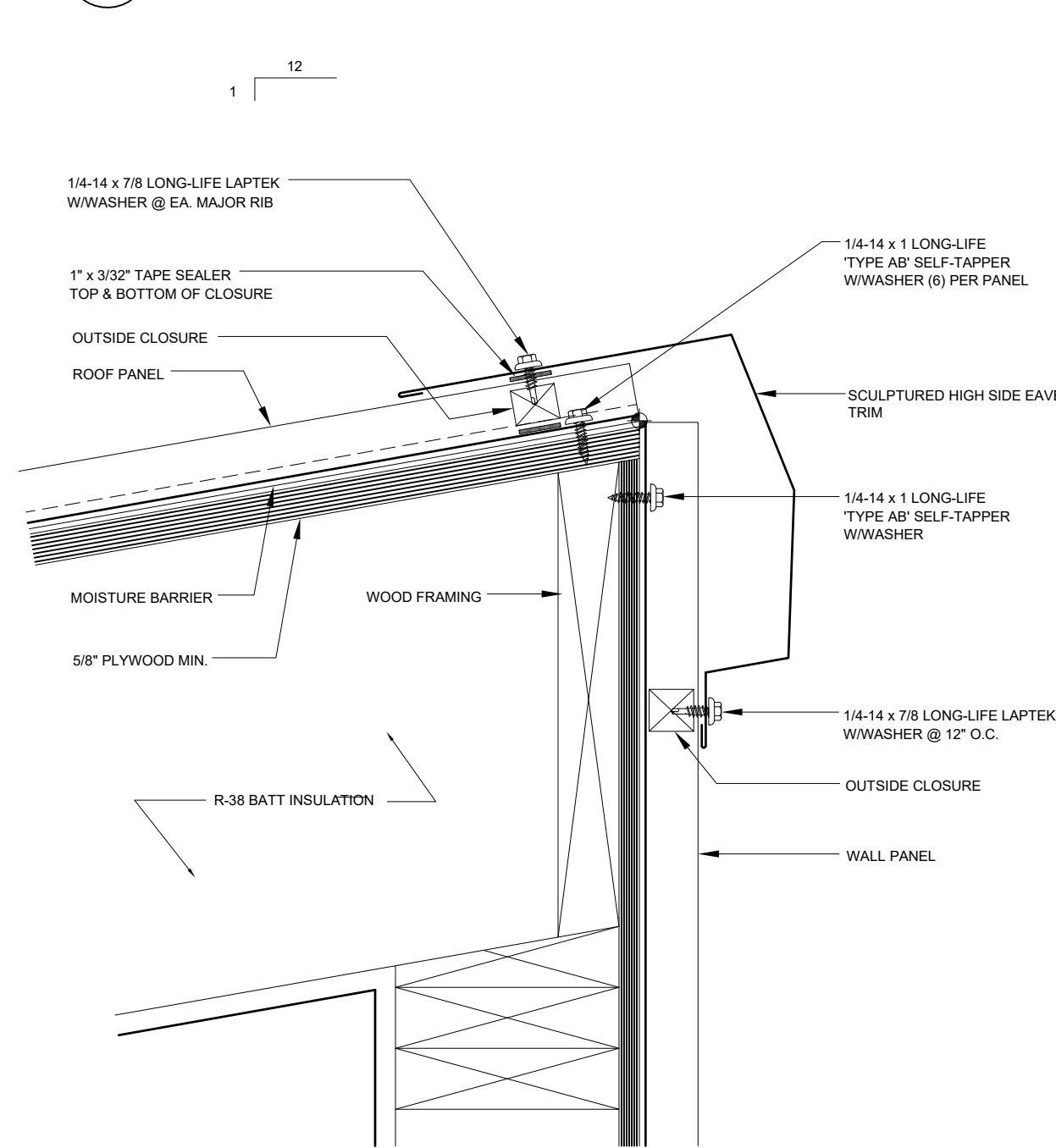
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3-2 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



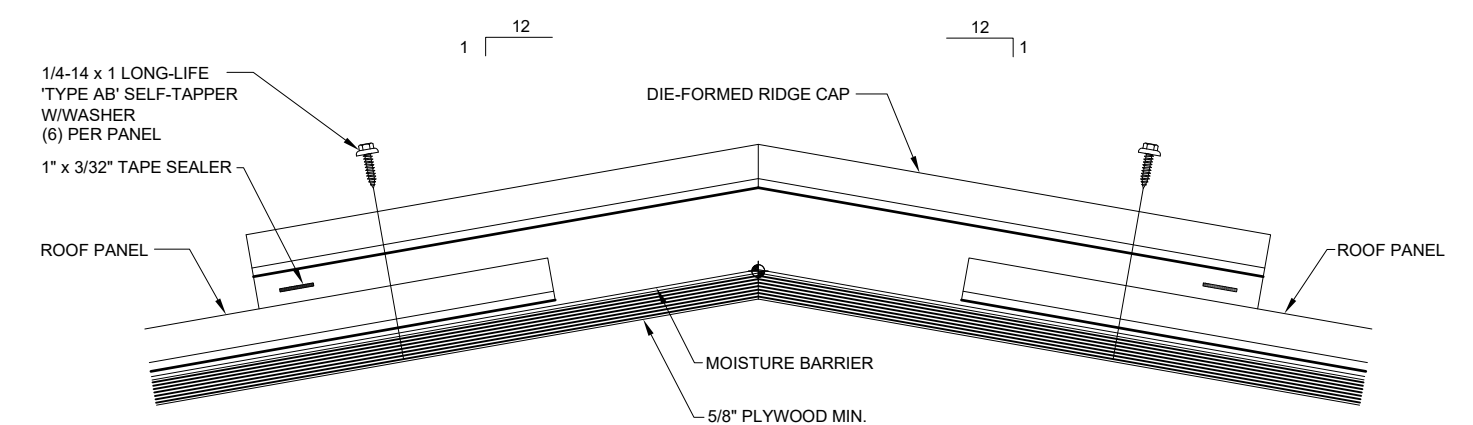
6
3-2 WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



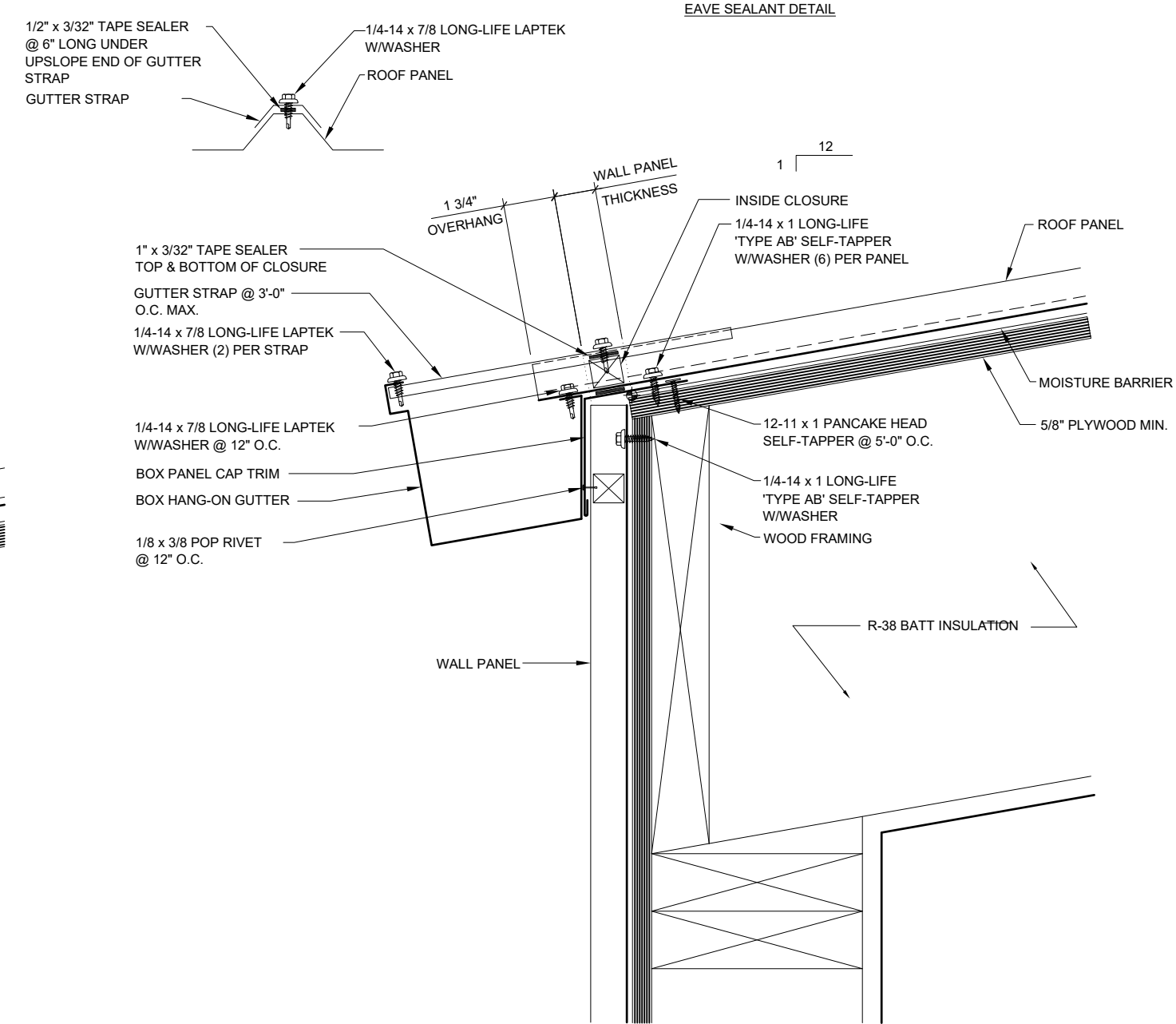
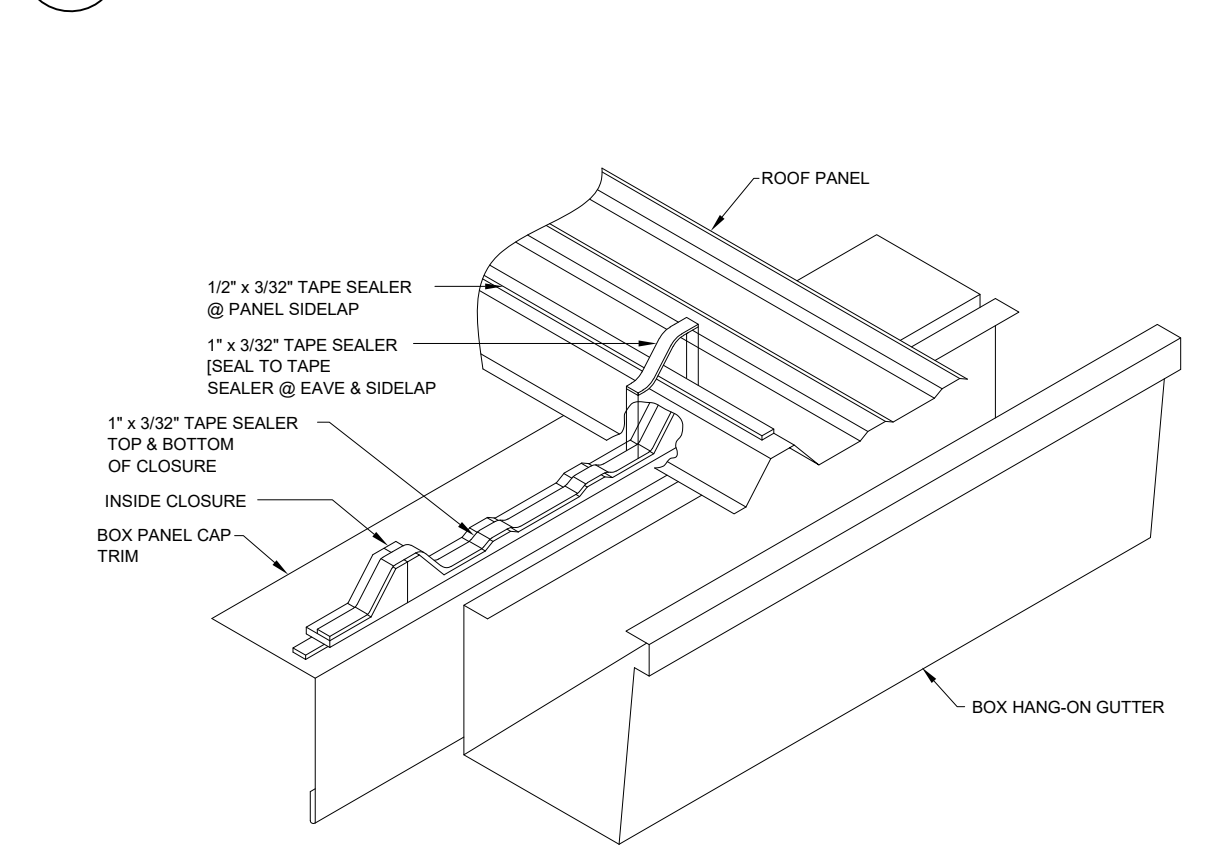
5
3-2 ROOF VALLEY DETAIL
SCALE: 3" = 1'-0"



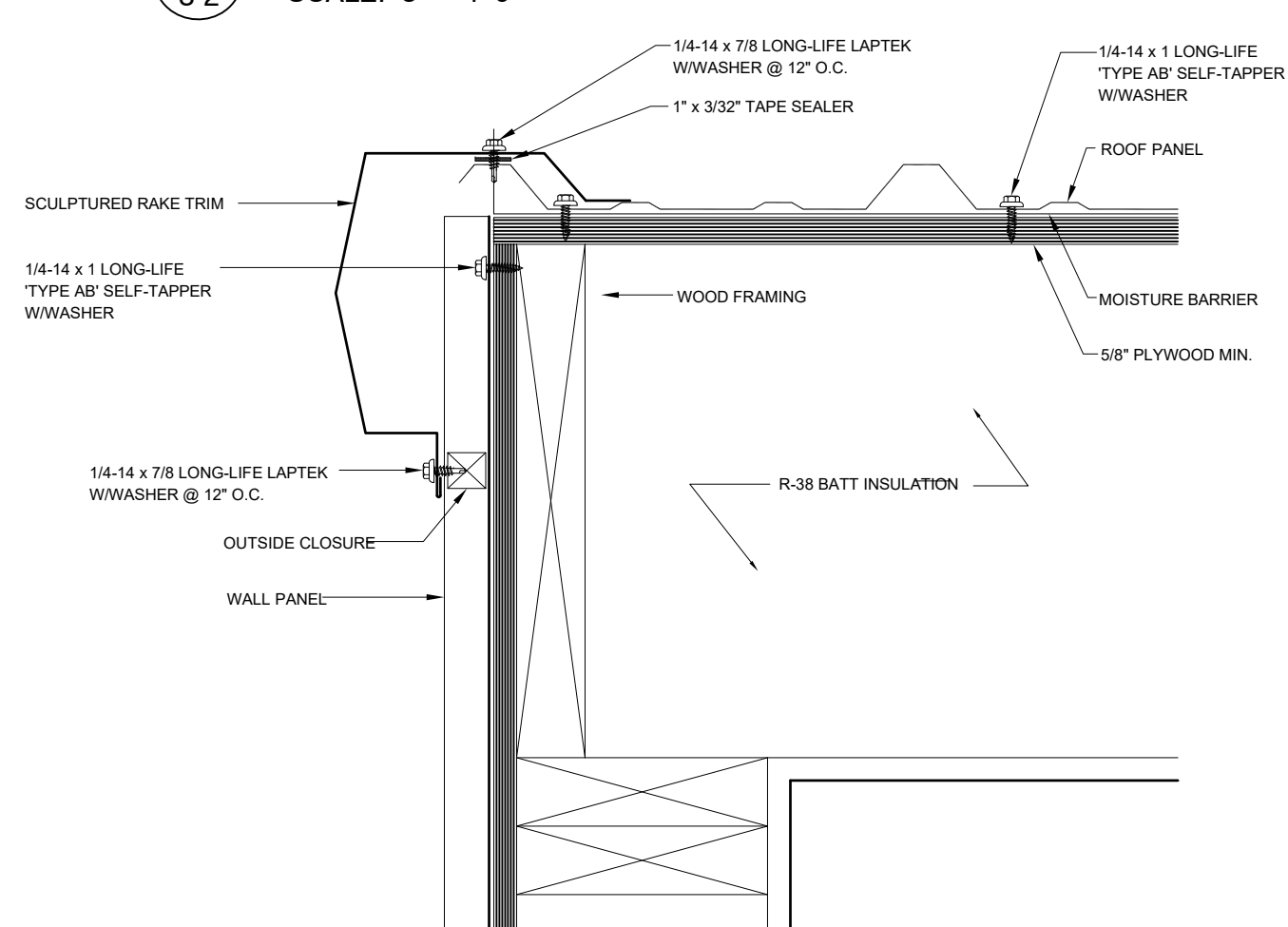
4
3-2 HIGH ROOF EDGE DETAIL
SCALE: 3" = 1'-0"



3
3-2 ROOF RIDGE DETAIL
SCALE: 3" = 1'-0"



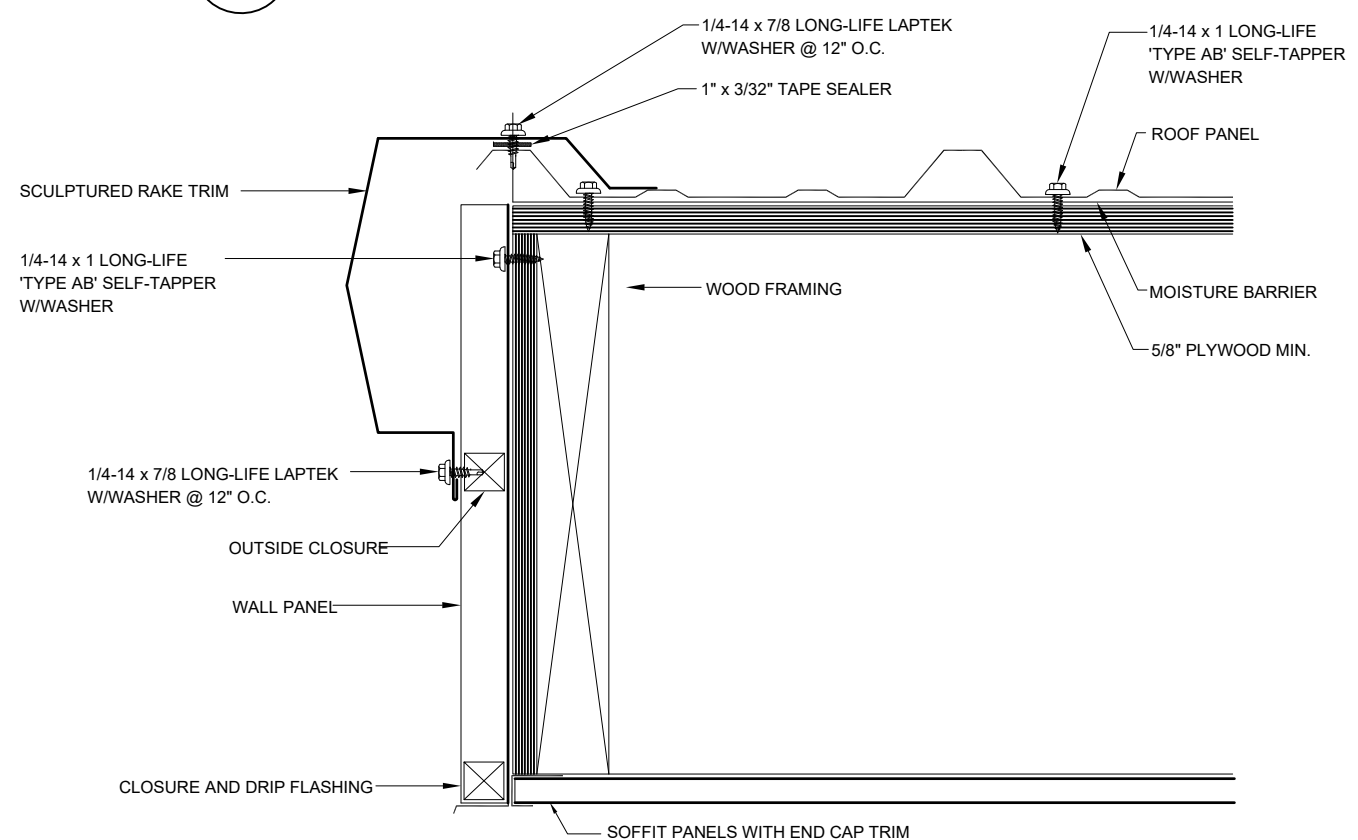
2
3-2 ROOF EDGE GUTTER DETAIL
SCALE: 3" = 1'-0"



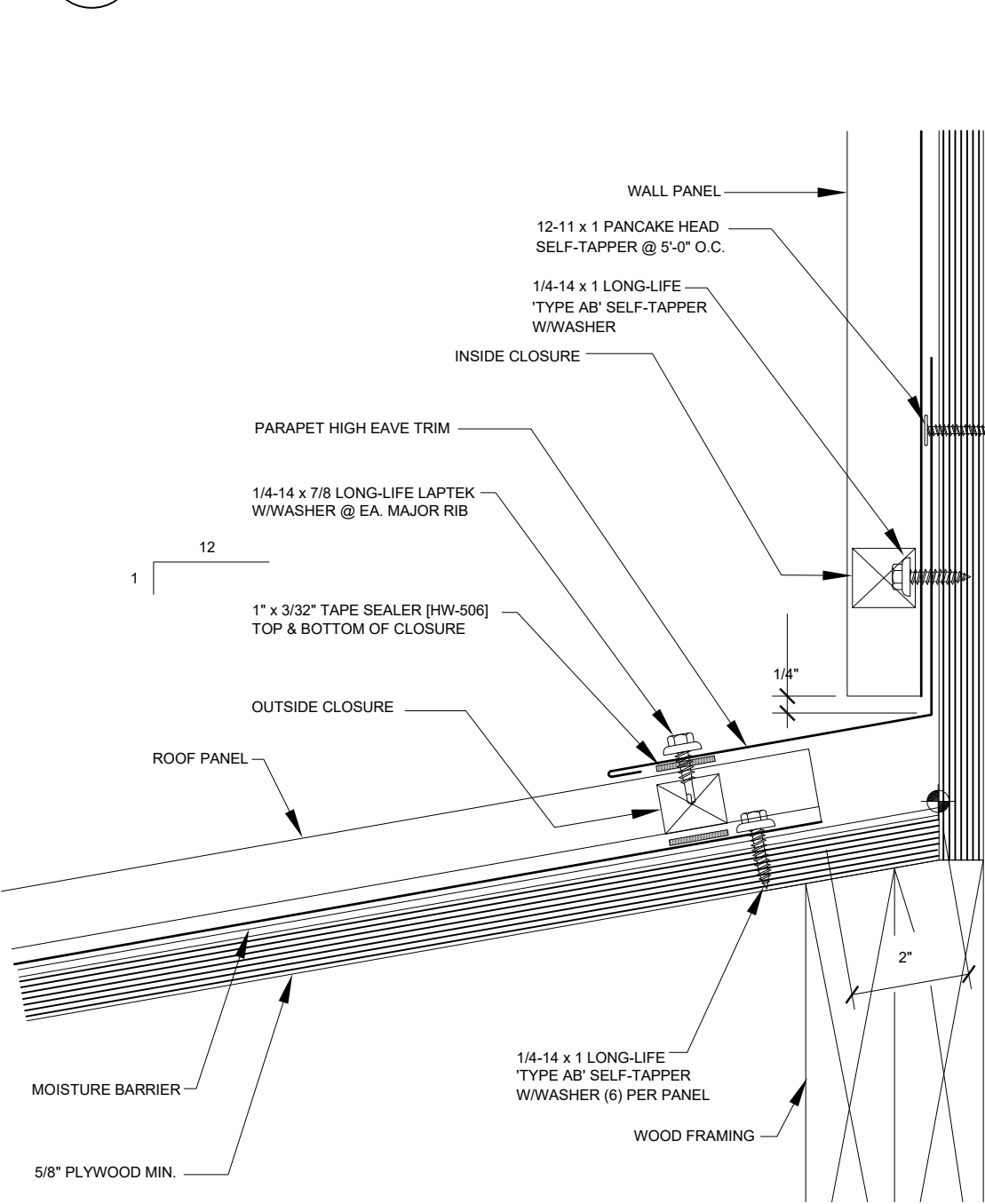
1
3-2 ROOF RAKE EDGE DETAIL
SCALE: 3" = 1'-0"



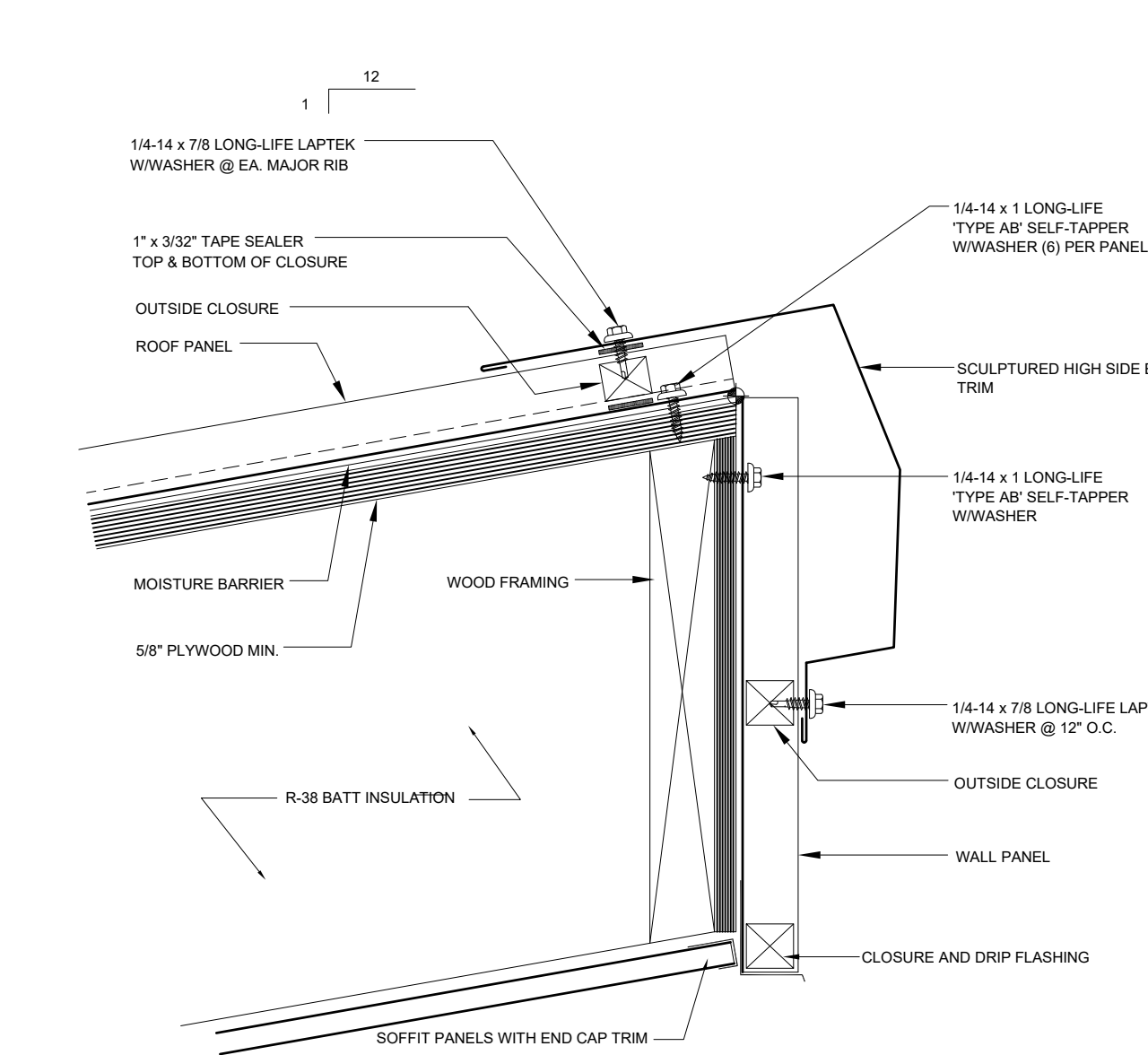
10
3-2 ROOF EDGE @ OVERHANG
SCALE: 3" = 1'-0"



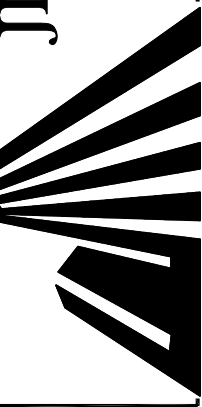
11
3-2 ROOF RAKE @ OVERHANG
SCALE: 3" = 1'-0"



12
3-2 ROOF TO WALL TRANSITION
SCALE: 3" = 1'-0"



13
3-2 HIGH ROOF EDGE @ OVERHANG
SCALE: 3" = 1'-0"





PROJECT NO. 2602
DRAWN BY JAW.
CHECKED BY JAW.
DATE 8-21-95
REVISION

JIRAN ARCHITECTS & PLANNERS P.C.
BOX 5015 1431 INTERSTATE LOOP SUITE A BISMARCK, ND 58503
PHONE : 701-258-7771 FAX : 701-258-1672

CHIPPEWA DOWNS GRANDSTAND
BELCOURT, NORTH DAKOTA

A
6-0

GENERAL:

- CONFLICTS: NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS IN CASE OF CONFLICT.
- SIMILAR WORK: WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS.
- ALL DIMENSIONS PERTAINING TO GRANDSTAND AND SITE CONDITIONS/OBJECTS TO BE FIELD VERIFIED OR LOCATED PRIOR TO FABRICATION.
- AS SPECIFIED AND ILLUSTRATED, ALL ALUMINUM FOOTBOARDS AND WALKING SURFACES ARE MILL FINISH (UNLESS NOTED OTHERWISE). MILL FINISH ALUMINUM, WHEN EXPOSED TO THE ATMOSPHERE, FORMS A TRANSPARENT PROTECTIVE OXIDE COATING. MILL FINISH ALUMINUM WILL STAIN WHEN MOISTURE IS TRAPPED AGAINST IT. THIS MOISTURE ENTRAPMENT CAN OCCUR AT SEVERAL STAGES OF MATERIAL DELIVERY, INCLUDING PACKAGING, SHIPPING AND STORAGE. THESE STAINS CAN BE ERRATIC AND VARY IN COLOR FROM LIGHT BRONZE TO BLACK TO CHALKY WHITE. MOISTURE STAINS HAVE NO EFFECT ON THE STRENGTH OF THE MATERIAL. THESE STAINS BECOME LESS NOTICEABLE DURING NORMAL USAGE AND EXPOSURE TO THE SUN'S RADIATION.
- SOUTHERN BLEACHER FOUNDATIONS AND STRUCTURE ADEQUATELY GROUND THE STRUCTURE. NO ADDITIONAL GROUNDING IS REQUIRED.
- SOUTHERN BLEACHER COMPANY AS A MANUFACTURER AND INSTALLER OF GRANDSTAND SEATING IS NOT AUTHORIZED TO CERTIFY PLANS AS ADA COMPLIANT. HOWEVER, TO THE BEST OF OUR KNOWLEDGE THESE PLANS MEET OR EXCEED ADA REQUIREMENTS FOR QUANTITY OF ADA SEATING, ACCESS/EGRESS TO ADA SEATING & DISPERSAL OF ADA SEATING.

DESIGN LOADS - ICC 300: SECTION 303

- DEAD LOADS:
BLEACHERS (INCLUDES GIRDERS) 10 PSF
- LIVE LOADS:
SEATS 120 PLF
TREADS* 100 PSF
SWAY (PERPENDICULAR TO SEAT) 10 PLF
SWAY (PARALLEL TO SEAT) 24 PLF
GUARDRAILS AND HANDRAILS** 50 PLF
* ALSO A 300 POUND CONCENTRATED LOAD ON AN AREA OF 4 SQUARE INCHES
** ALSO A 200 POUND CONCENTRATED LOAD APPLIED TO RAIL AT ANY POINT IN ANY DIRECTION

STRUCTURAL STEEL:

- CODE: AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
- MATERIALS:
WIDE FLANGE ASTM A992/A572, Fy = 50 ksi (Gr. 50) U.N.O.
CHANNELS AND ANGLES ASTM A36/A36M/A529, Fy = 50 ksi (Gr 50)
SWAYRODS ASTM A36/A36M/A529, Fy = 50 ksi (Gr 50)
HSS SHAPES (TUBE COLUMNS) ASTM A-500 GRADE B - 46 KSI
PLATES ASTM A36/A36M/A529/A572, Fy=50 ksi (Gr 50)
BOLTS - LESS THAN 1/2" DIA. ASTM A-307, TYPICAL U.N.O (HOT DIP GALVANIZED)
W/ STANDARD HEX NUT (HOT DIP GALVANIZED)
BOLTS - 1/2" DIA. and GREATER ASTM A-325, TYPICAL U.N.O (HOT DIP GALVANIZED)
W/ HEAVY HEX NUT (HOT DIP GALVANIZED)
ANCHOR BOLTS ASTM F1554 (GR55) (SEE ITEM DESCRIPTION, GALVANIZED - U.N.O.)
- WELDING: ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.1. WELDS ARE ALL AROUND (U.N.O.) WITH TYPE ER70S-6 WIRE MIG U.N.O.
- ALL STEEL SHALL BE HOT DIP GALVANIZED TO CURRENT A.S.T.M. A-123.
- ALL FIELD CONNECTIONS ARE NON-SLIP CRITICAL & DESIGNED TO UTILIZE A307 BOLTS. U.N.O. A325N BOLTS MAY BE SUPPLIED IN LEIU OF A307 BOLTS. BOLTS ARE TO BE TIGHTENED TO SNUG TIGHT CONDITION AS SPECIFIED BY AISC. NO TESTING OF A307 OR A325N BOLTS IS REQUIRED.
- SWAYROD THREADS SHALL BE PINGED WITH A HAMMER TO ELIMINATE REMOVAL OF NUT, AFTER FINAL TIGHTENING.

ALUMINUM:

- MATERIALS: ALUMINUM
SHAPES ALLOY 6061-T6 OR 6005A-T61 (Fy = 35 KSI)
PLANKING/RAIL/PICKET PANEL ALLOY 6063-T6 (Fy = 25 KSI)
- DISSIMILAR MATERIALS:
WHERE ALUMINUM SURFACES ARE IN CONTACT WITH STEEL, THE STEEL SHALL BE GALVANIZED.
- MILL FINISHED ALUMINUM WILL BECOME DISCOLORED DUE TO OXIDATION WHICH IS A NATURAL PHENOMENON & SHOULD BE EXPECTED. SEE GENERAL NOTES ABOVE.
- ANODIZED ALUMINUM HANDRAIL IS 1 1/4" PIPE SIZE.
- WELDING:
ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.2. WELDS ARE ALL AROUND (U.N.O) WITH TYPE S356 WIRE MIG. U.N.O.

TURTLE MOUNTAIN TRIBE

CHIPPEWA DOWNS GRANDSTAND

BELCOURT, NORTH DAKOTA

SHEET DESCRIPTION:	SHEET NUMBER:
SIDE VIEW SECTION VIEW SIGHT LINES PLAN AND FOOTING LAYOUT	1 2 3 4



PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365

Established 1946

OWNER/REPRESENTATIVE/ARCHITECTURAL REVIEW

PLEASE REVIEW THE DRAWINGS FOR COMPLIANCE WITH YOUR ORDER.
PLEASE INDICATE ANY CHANGES
OR COMMENTS ON THE DRAWINGS.

☐ APPROVED

SIGNATURE _____

☐ APPROVED AS NOTED

TITLE _____

☐ REVISE AND RE-SUBMIT

DATE _____



CERTIFIED WELDING FABRICATOR®



CERTIFIED FABRICATOR

ENGINEER STAMP

NOT FOR CONSTRUCTION

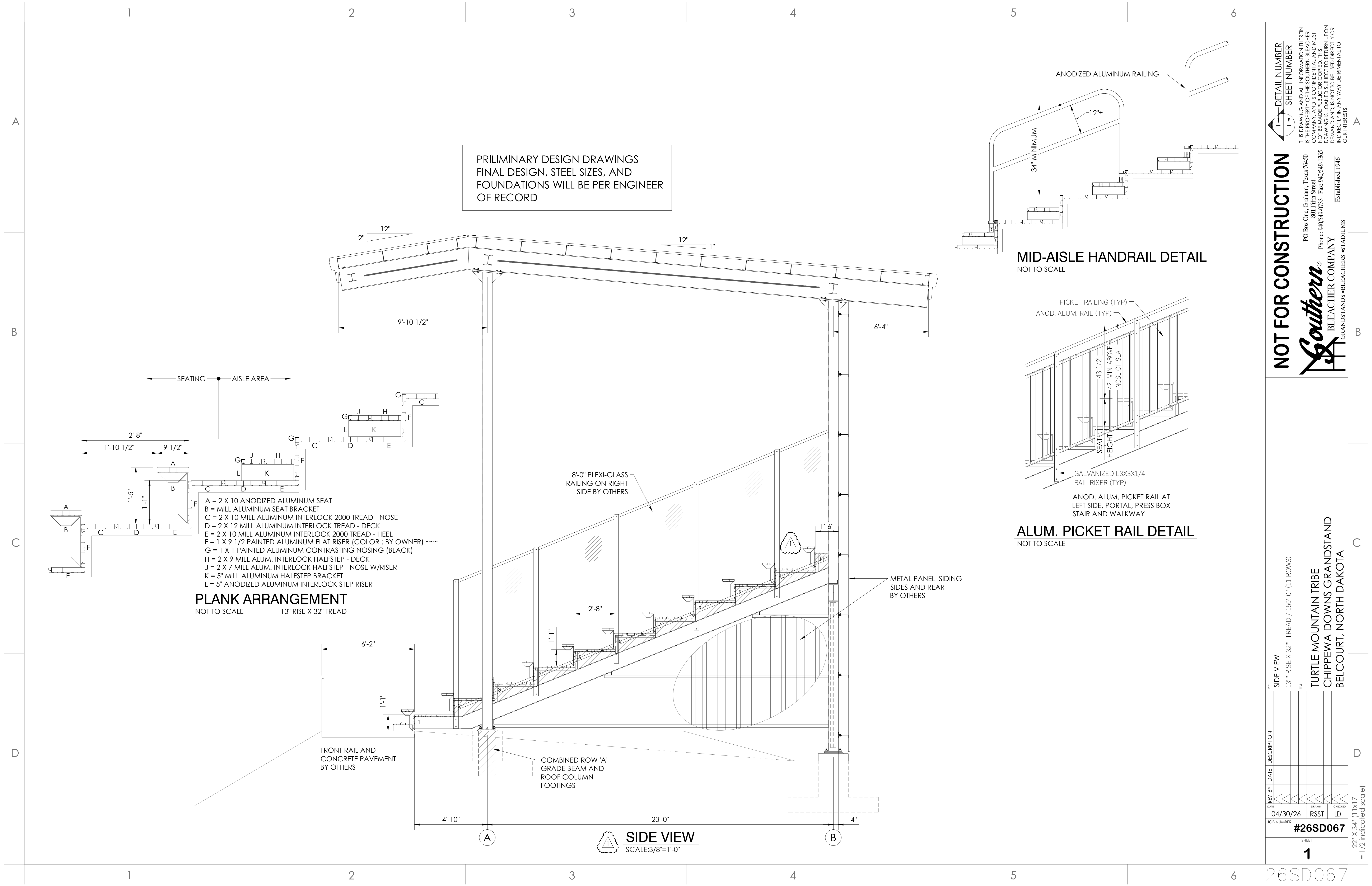
GENERAL INFORMATION					
	RISE	TREAD	ROWS	LENGTH	SEAT COUNT
GRANDSTAND	13"	32"	11	150'-0"	846

ROOF
8X12 ZERR PRESS BOX BY OTHERS HUNG BELOW ROOF

DATE: 04/30/26
JOB # 26SD067
TURTLE MOUNTAIN TRIBE
CHIPPEWA DOWNS GRANDSTAND
BELCOURT, NORTH DAKOTA

REF:

#26SD067 - BELCOURT, NORTH DAKOTA



DETAIL NUMBER
1-1
SHEET NUMBER

NOT FOR CONSTRUCTION

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REV
BY
DATE
DESCRIPTION

04/30/26
RSST
ID

JOB NUMBER
#26SD067

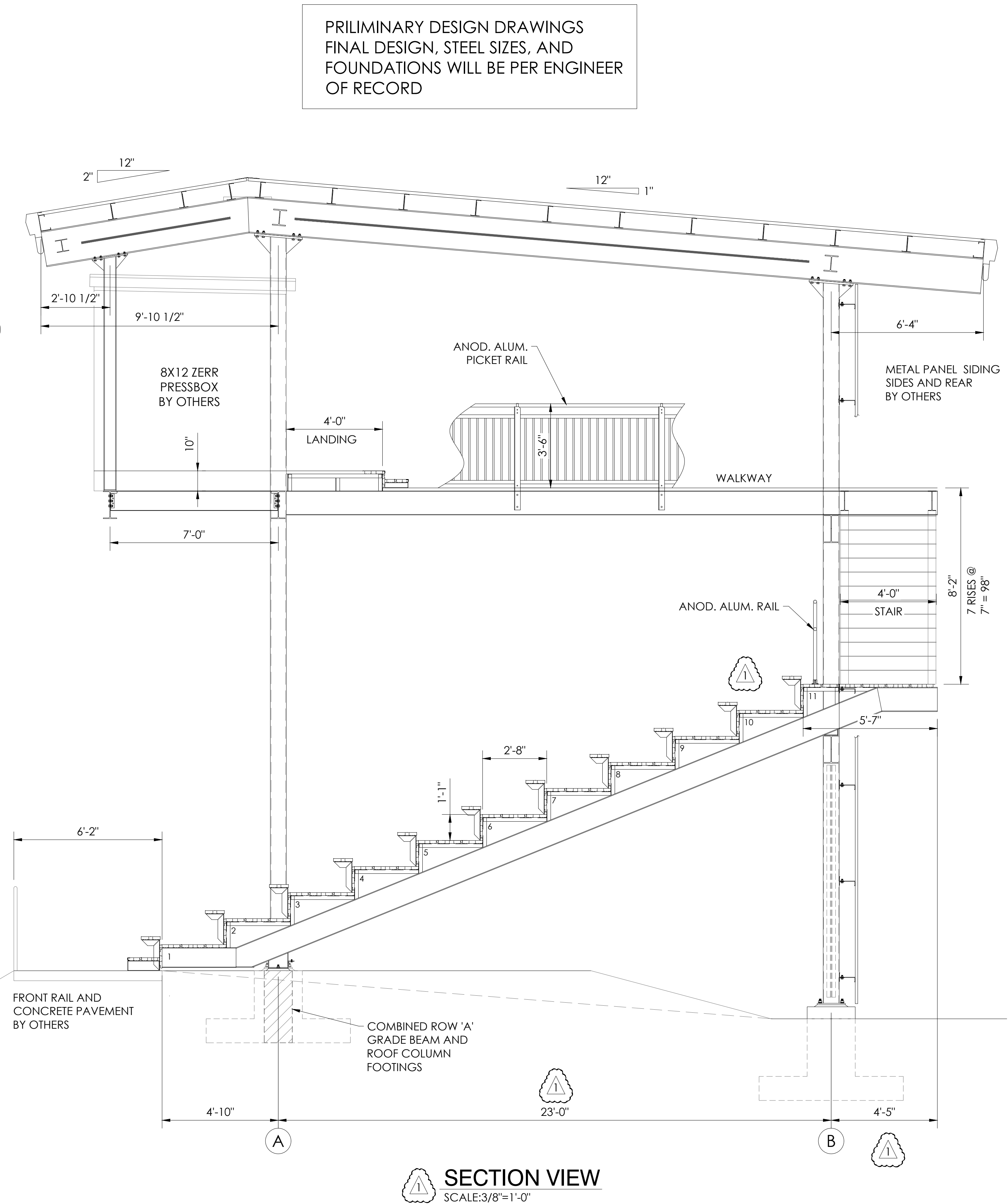
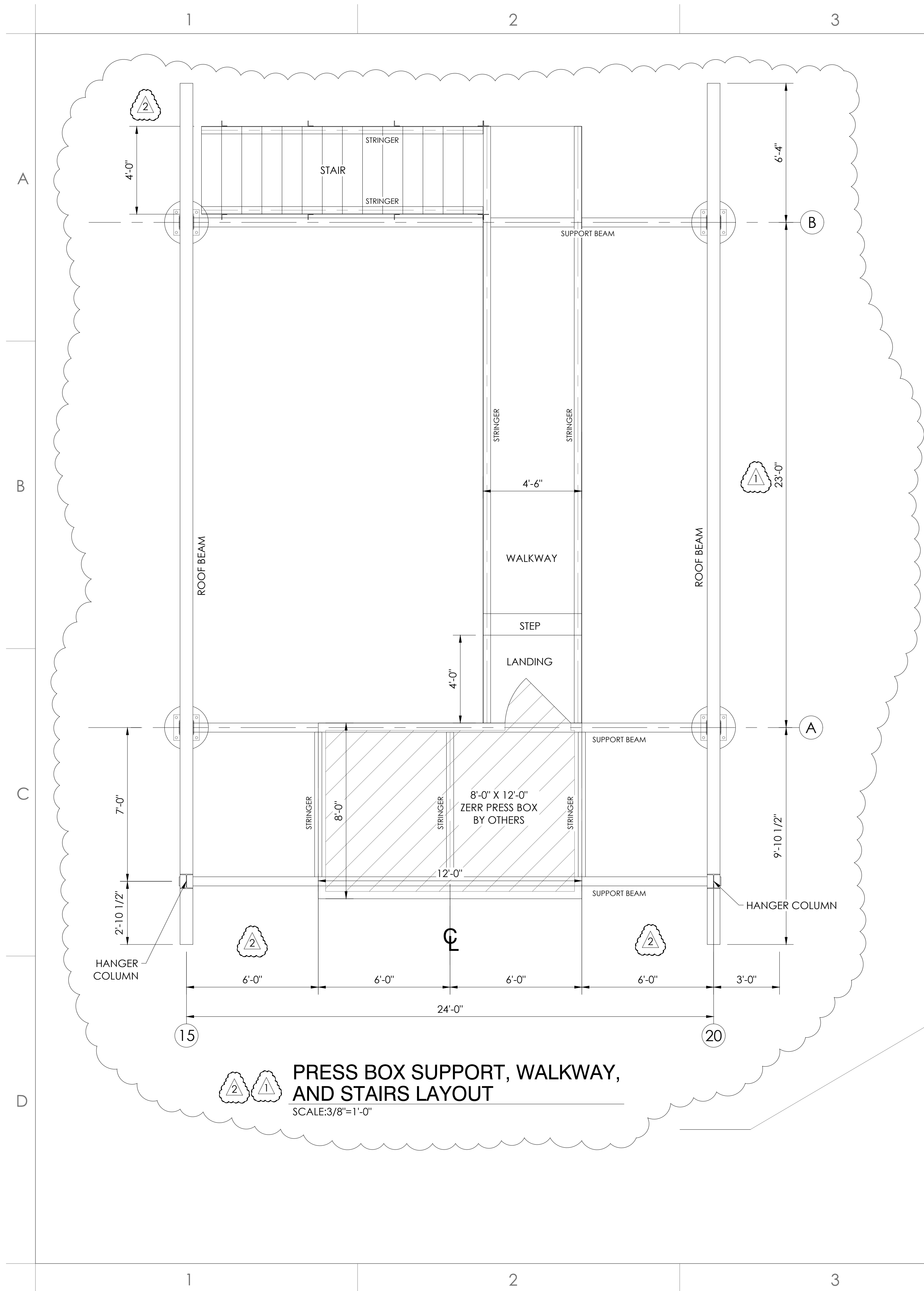
SIDE VIEW
13" RISE X 32" TREAD / 150'-0" (11 ROWS)

TURTLE MOUNTAIN TRIBE
CHIPPEWA DOWNS GRANDSTAND
BELCOURT, NORTH DAKOTA

SHEET
1

26SD067

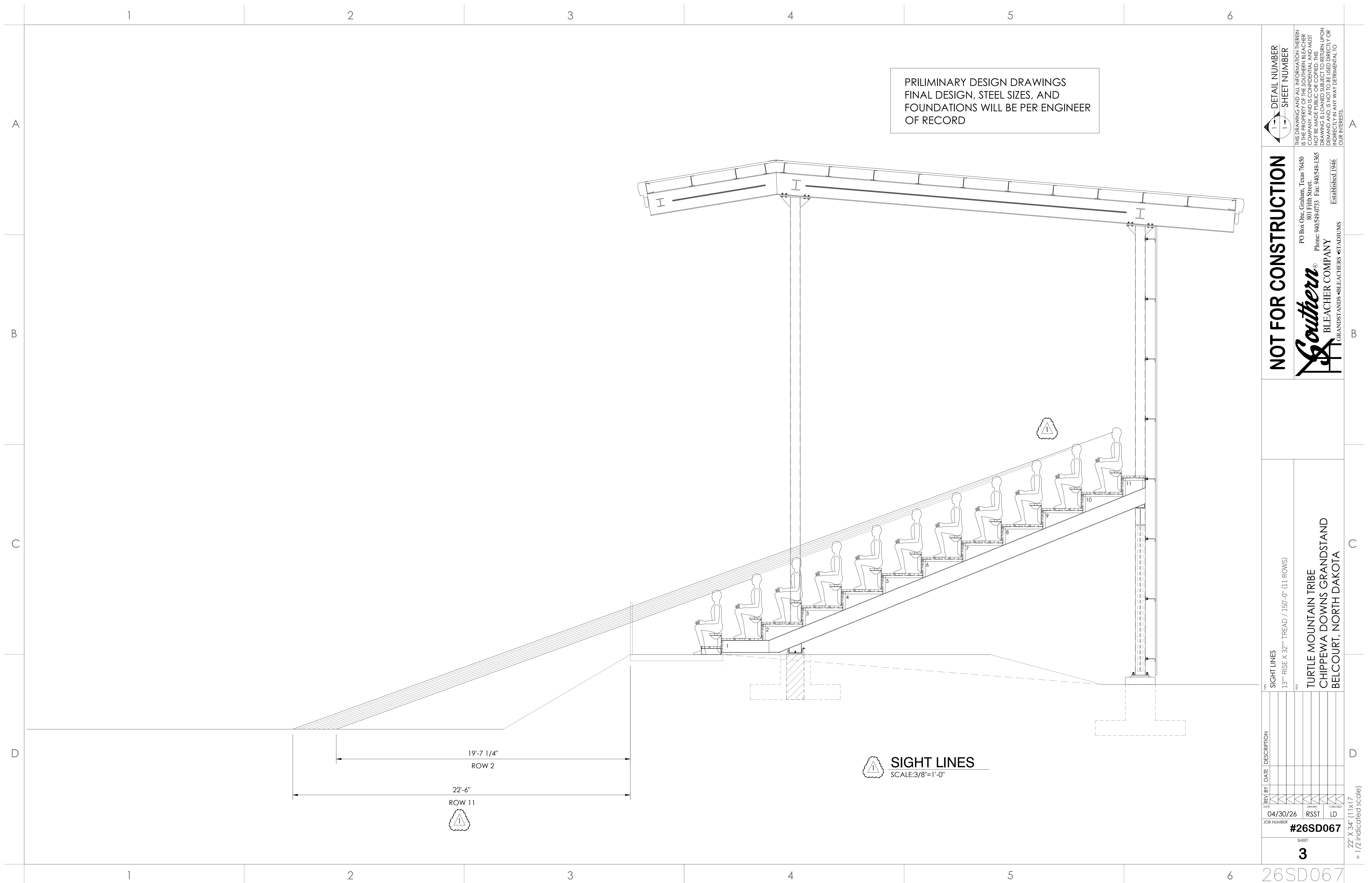
22' X 34' (11x17)
= 1/2 indicated scale



DETAIL NUMBER		SHEET NUMBER	
NOT FOR CONSTRUCTION		2	
TURTLE MOUNTAIN TRIBE CHIPPEWA DOWNS GRANDSTAND BELCOURT, NORTH DAKOTA		26SD067	
SECTION VIEW 13" RISE X 32" TREAD / 150'-0" (11 ROWS)		DATE 04/30/26	
REV. BY DATE DESCRIPTION		DRAWN RSST	
JOB NUMBER		CHECKED ID	
SHEET		2	
22" X 34" (11x17)		= 1/2 indicated scale)	

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1
1
DETAIL NUMBER
SHEET NUMBER

NOT FOR CONSTRUCTION

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TYPE
SIGHT LINES
13" RISE X 32"

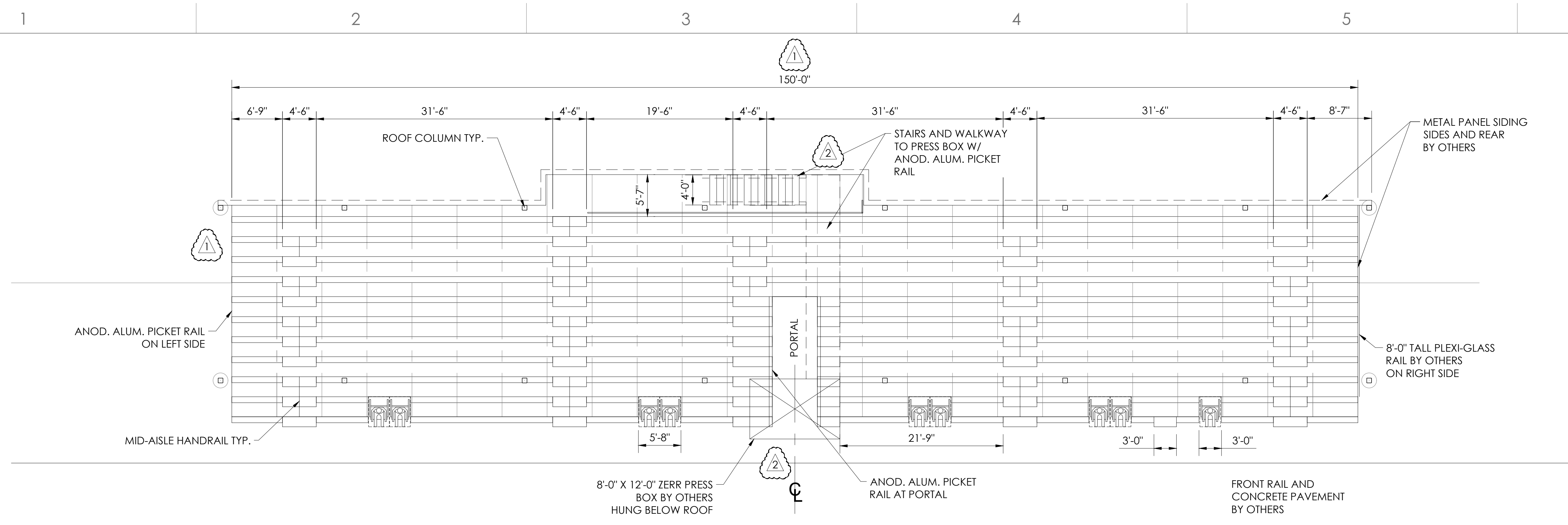
13" RISE X 32" TREAD / 150'-0" (11 ROWS)

TURTLE MOUNTAIN TRIBE
CHIPPEWA DOWNS GRANDSTAND
BELCOURT, NORTH DAKOTA

22" X 34" (11x17
= 1/2 indicated scale)

SHEET
3

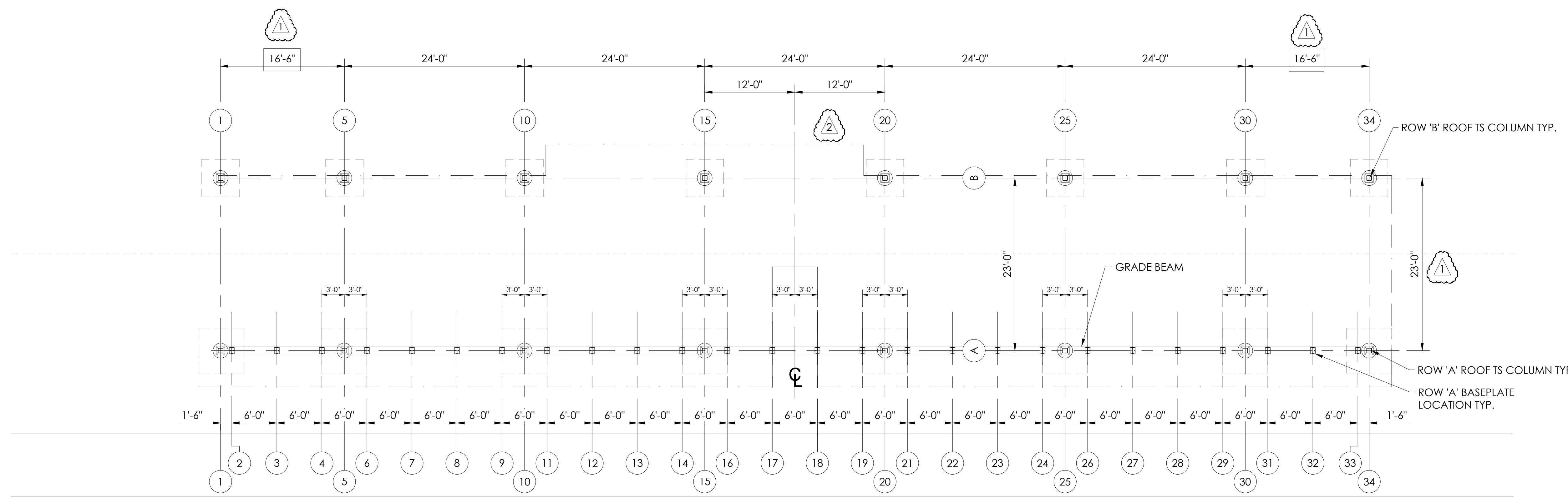
26SD067



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

837 TOTAL NET 18" SEATS
9 TOTAL NET 33" WHEELCHAIR SPACES
846 TOTAL SEATING CAPACITY

PRILIMINARY DESIGN DRAWINGS
FINAL DESIGN, STEEL SIZES, AND
FOUNDATIONS WILL BE PER ENGINEER
OF RECORD



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

DETAIL NUMBER
1-1
SHEET NUMBER

NOT FOR CONSTRUCTION

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REV	BY	DATE	DESCRIPTION
1	RSST	04/30/26	PLAN AND FOOTING LAYOUT
2			13" RISE X 32" TREAD / 150'-0" (11 ROWS)
3			
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TURTLE MOUNTAIN TRIBE
CHIPPEWA DOWNS GRANDSTAND
BELCOURT, NORTH DAKOTA

#26SD067

SHEET
4

22" X 34" (11x17
= 1/2 indicated scale)

GENERAL STRUCTURAL NOTES

GENERAL DESIGN AND CONSTRUCTION:

- (1) ALL WORK SHALL COMPLY WITH THE 2024 INTERNATIONAL BUILDING CODE (IBC 2024).
- (2) DESIGN LOADS:
- PROJECT LOCATION: BELCOURT, NORTH DAKOTA
BUILDING RISK CATEGORY = II
- WIND LOADS: PER ASCE 7-22, EXPOSURE CATEGORY 'C', $I_W = 1.0$
V, BASIC WIND SPEED (MAPPED 3-SECOND GUST) = 112 MPH (RISK CATEGORY II)
- CO:
- SNOW LOAD: PER ASCE 7-22 (ALSO SEE PLAN FOR POTENTIAL ADDITIONAL SNOW DRIFTING SPECIFIED AS ULTIMATE SNOW DRIFT)
CALCULATED ROOF SNOW, $P_F = 55$ PSF (ALLOWABLE)(AFTER 0.7 ASD FACTOR)
GROUND SNOW (MAPPED), $P_G = 57$ PSF (ULTIMATE)
 $I_S = 1.0$, $C_E = 1.0$, $C_T = 1.0$, $W_{EQ} = 0.45$
- SEISMIC LOADS PER ASCE 7 (BELCOURT, ND)
SITE CLASS = D (ASSUMED), $S_S = 0.066$, $S_1 = 0.022$, $I_E = 1.0$
SITE COEFFICIENT, $F_A = 1.6$, SITE COEFFICIENT, $F_V = 2.4$
SEISMIC DESIGN CATEGORY A
- TOTAL ROOF DEAD LOAD = 20 PSF
- (3) DESIGN PARAMETERS: BUILDING WILL BE PERMANENTLY HEATED, YEAR-ROUND.
- (4) SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES.
- (5) THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF THE STRUCTURE DURING ALL PHASES OF DEMOLITION, CONSTRUCTION AND INSTALLATION, PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS OR OTHER PERSONS BY MEANS OF SHORING, BRACING AND JOB SITE SAFETY MEASURES.
- (6) MEANS-AND-METHODS INCLUDING TEMPORARY BRACING AND SHORING AGAINST WIND AND ERECTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- (7) NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIAL OR EQUIPMENT THAT EXCEEDS FINAL DESIGN LOADING INDICATED.
- (8) VERIFY LOCATION OF BOX-OUTS AND OPENINGS WITH MECHANICAL AND ELECTRICAL CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR PIPES, DUCTS, ETC. ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS BEFORE COMMENCING WITH WORK.
- (9) VERIFY ALL MECHANICAL AND ELECTRICAL EQUIPMENT HEIGHT AND LOCATIONS WITH MECHANICAL AND ELECTRICAL CONTRACTORS AND COMPARE WITH THAT SHOWN ON THE DRAWINGS, IF WEIGHTS AND LOCATIONS DIFFER FROM THAT SHOWN, CONTACT THE STRUCTURAL ENGINEER TO PROVIDE FOR SUPPORT.
- (10) HOLES, PIPES, SLEEVES, ETC. THROUGH STRUCTURAL FRAMING AND FOUNDATIONS THAT ARE NOT SHOWN ON THE DRAWINGS ARE NOT ACCEPTABLE.
- (11) CONTRACTOR SHALL PROVIDE A CAST-IN SLEEVE WHERE DRAIN TILE PASSES THROUGH FOOTINGS OR FOUNDATION WALLS.
- (12) STRUCTURAL ENGINEER'S SEAL ON THE PLAN DOES NOT PROVIDE FOR CONSTRUCTION INSPECTION OR MATERIAL TESTING OF ANY KIND. SEE REQUIREMENTS BELOW FOR TESTING LABORATORY SERVICES AND INSPECTIONS.
- (13) SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, ETC. SHALL BE DIMENSIONED, REVIEWED, COORDINATED, AND SIGNED/STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER. MANUFACTURED COMPONENTS SUCH AS STEEL STAIRS, TRUSSES OR PRECAST CONCRETE SHALL BE ENGINEERED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE THE PROJECT IS BEING BUILT PRIOR TO SUBMISSION.
- (14) VERIFY ALL DIMENSIONS AND CONDITIONS OF ADJACENT BLEACHER CONSTRUCTION TO BE AS SHOWN ON THE DRAWINGS. ADVISE THE ARCHITECT AND STRUCTURAL ENGINEER OF VARIANCES PRIOR TO CONTINUING WITH CONSTRUCTION.
- (15) ALL NECESSARY EGRESS EXIT/ENTRY DOORS MUST BE CONSTRUCTED AND MAINTAINED TO OPERATE FREELY AT ALL TIMES PROVIDING EGRESS FROM THE BUILDING AS WELL AS SATISFYING AND MAINTAINING ANY AND ALL ADA REQUIREMENTS. DESIGN AND CONSTRUCTION OF EXTERIOR CONCRETE SIDEWALKS, STAIRS, PAVING, DOOR SILLS, ETC., TO PROVIDE AND MAINTAIN EGRESS IN A FROST-FREE MANNER VIA STOOD FOUNDATIONS, NON-FROST-SUSCEPTIBLE FILL, FLOWABLE FILL, SHALLOW INSULATED FROST-PROTECTED FOUNDATION OR OTHER MEANS IF NOT CONSTRUCTED AS SHOWN ON THESE DRAWINGS IS NOT THE RESPONSIBILITY OF STRUCTURAL ENGINEERS.

- (16) CSTRUCTURAL MAY PROVIDE PERIODIC OBSERVATIONS TO ASSURE CONFORMANCE WITH DESIGN INTENT OF THE CONSTRUCTION DOCUMENTS. HOWEVER, THESE OBSERVATIONS ARE NOT MEANT TO FULFILL THE REQUIREMENTS OF THE IBC REQUIRED SPECIAL INSPECTIONS. CSTRUCTURAL IS NOT CONSIDERED A QUALIFIED 'SPECIAL INSPECTOR' AS IT RELATES TO REQUIRED BUILDING CODE, REFER TO THE SPECIAL INSPECTIONS.

- (17) CSTRUCTURAL IS NOT RESPONSIBLE FOR LIFE SAFETY (I.E. EGRESS REQUIREMENTS) OR FIRE CODE (I.E. FIREWALLS, FIRE BARRIERS, STAIRS) REQUIREMENTS. G.C. AND/OR OWNER REQUIRED TO CONSULT DESIGN PROFESSIONAL FOR ALL LIFE SAFETY AND FIRE CODE REQUIREMENTS.

- (18) CSTRUCTURAL IS NOT RESPONSIBLE FOR ANY MOISTURE PROTECTION, INSULATION, OR BUILDING ENVELOPE DESIGN. G.C. AND/OR OWNER REQUIRED TO CONSULT DESIGN PROFESSIONAL FOR ALL REQUIRED BUILDING ENVELOPE DESIGN AND DETAILS.

STATEMENT OF SPECIAL INSPECTIONS:

- (1) SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER, UNLESS SPECIFIED DIFFERENTLY IN PROJECT SPECIFICATIONS. FOR THE ITEMS IDENTIFIED IN THIS SECTION AND IN OTHER AREAS OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS, UNLESS WAIVED BY THE BUILDING OFFICIAL (SEE IBC CHAPTER 17).
- (2) THE NAMES AND CREDENTIALS OF THE SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL.
- (3) DUTIES OF THE SPECIAL INSPECTOR:
- a. THE SPECIAL INSPECTOR SHALL REVIEW ALL WORK LISTED BELOW FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS AND THE IBC.
- b. THE SPECIAL INSPECTOR SHALL FURNISH SPECIAL INSPECTION REPORTS

TO THE EOR, CONTRACTOR, OWNER AND BUILDING OFFICIAL ON A WEEKLY BASIS, OR MORE FREQUENTLY AS REQUIRED BY THE BUILDING OFFICIAL. ALL ITEMS NOT IN COMPLIANCE SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND IF UNCORRECTED, TO THE EOR AND THE BUILDING OFFICIAL.

c. ONCE CORRECTIONS HAVE BEEN MADE BY THE CONTRACTOR, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL STATING THAT THE WORK REQUIRING SPECIAL INSPECTION HAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS AS WELL AS THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.

- (4) DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR:
- a. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK. IN ACCORDANCE WITH IBC 1704.4, THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED WITHIN THE 'STATEMENT OF SPECIAL INSPECTIONS'.
- b. THE CONTRACTOR SHALL NOTIFY THE RESPONSIBLE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST ONE WORK DAY (24 HOURS MINIMUM) BEFORE SUCH INSPECTION IS REQUIRED.
- c. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED BY THE SPECIAL INSPECTOR.

(5) REQUIRED SPECIAL INSPECTIONS (PER IBC 2024):

CONCRETE (IBC SECTION 1705.3): SPECIAL INSPECTIONS TO BE PERFORMED PER 'REQUIRED SPECIAL INSPECTION OF CONCRETE CONSTRUCTION' TABLE LOCATED WITHIN THESE CONSTRUCTION DOCUMENTS AND ALSO CALLED OUT IN THE IBC TABLE 1705.3. (EXCEPTION: SPECIAL INSPECTIONS ARE NOT REQUIRED FOR CONCRETE IN THE FOLLOWING CASES:

- 1) ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.
- 2) CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE:
- 1.1) THE FOOTINGS SUPPORTING WALLS OF LIGHT-FRAMED CONSTRUCTION
- 1.2) THE FOOTINGS ARE DESIGNED IN ACCORDANCE WITH TABLE 1801.7 OF THE IBC.
- 1.3) THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH, f'_c , NOT MORE THAN 2,500PSI, REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS OR USED IN THE FOOTING CONSTRUCTION.
- 3) NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI.
- 4) CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1801.1.6.2.
- 5) CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS, ON GRADE.)

STRUCTURAL WOOD (IBC SECTION 1705.11.1 & IBC SECTION 1705.11.3): CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING FIELD 'GLUING OPERATIONS' OF THE MAIN WINDFORCE-RESISTING SYSTEMS. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD-DOWNS. (EXCEPTION: SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM WHERE FASTER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.)

WIND-RESISTING COMPONENTS (IBC SECTION 1705.11.3): PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FASTENING OF THE FOLLOWING SYSTEMS AND COMPONENTS:

1.) ROOF COVERINGS, ROOF DECK, AND ROOF FRAMING CONNECTIONS.

2.) EXTERIOR WALL COVERING, AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.(I.E. WOOD STUDS, STEEL STUDS, CMU WALLS, ETC.)

SOIL (IBC SECTION 1705.6): SPECIAL INSPECTIONS TO BE PERFORMED PER TABLE 1705.6 LOCATED BOTH IN THE IBC AND WITHIN THESE CONSTRUCTION DOCUMENTS.

STRUCTURAL STEEL & STEEL JOISTS (IBC SECTION 1705.2, 1705.11, & 1705.12 AND AISC 360): SPECIAL INSPECTIONS TO BE PERFORMED PER 'REQUIRED SPECIAL INSPECTION OF STRUCTURAL STEEL' TABLE LOCATED WITHIN THESE CONSTRUCTION DOCUMENTS AND ALSO CALLED OUT IN THE IBC & AISC.

- (6) PLEASE SEE THE 'SPECIAL INSPECTION SCHEDULES/TABLES' FOR THE TYPES, EXTENTS AND FREQUENCY OF SPECIFIC ITEMS REQUIRING SPECIAL INSPECTIONS AND STRUCTURAL TESTS AS PART OF THIS PROJECT. INSPECTIONS AND TESTING INDICATED IN THE SPECIAL INSPECTION TABLES ARE GUIDELINES TO THE REQUIRED INSPECTION AND TESTING REQUIRED BY THE BUILDING CODE FOR THE PARTICULAR BUILDING. THE IBC AND REFERENCED TESTING/INSPECTION STANDARDS SHALL BE REVIEWED AND FOLLOWED BY THE INSPECTING AGENCY TO ENSURE THAT ALL REQUIRED TESTING/INSPECTION AND PROCEDURE FOR TESTING/INSPECTION IS ACHIEVED.

FOUNDATIONS:

- (1) ASSUMED GEOTECHNICAL DESIGN VALUES - ALL CONCRETE FOUNDATION DESIGNS ARE BASED ON ASSUMED GEOTECHNICAL DESIGN VALUES TO BE CONFIRMED BY A GEOTECHNICAL ENGINEER. ALL FOUNDATION EXCAVATIONS MUST BE OBSERVED AND ALL ASSUMED DESIGN VALUES STATED BELOW SHALL BE VERIFIED IN WRITING BY A LICENSED GEOTECHNICAL ENGINEER FOLLOWING ON-SITE OBSERVATION PRIOR TO FABRICATING STEEL AND PLACING CONCRETE ANY CONCRETE. ALL ASSUMED GEOTECHNICAL DESIGN VALUES ARE AS FOLLOWS:

- A. MINIMUM SOIL BEARING CAPACITY = 1500 PSF
B. BACKFILL SOIL UNIT WEIGHT (γ) = 110 PCF (DRY)
C. MAXIMUM LATERAL PRESSURE VALUES (GRANULAR BACKFILL WITH DRAINLETTE):
- i. ACTIVE PRESSURE: 45 PCF
ii. AT-REST PRESSURE: 60 PCF
iii. PASSIVE PRESSURE: 250 PCF
iv. COEFFICIENT OF FRICTION (CONCRETE ON SOIL): 0.35

- (2) ALL FOOTINGS SHALL BEAR ON NATURAL, UNDISTURBED SOIL. ALL NATURAL BEARING MATERIAL SHALL BE APPROVED IN WRITING BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOOTING CONCRETE.

- (3) ALL SEEPAGE SHALL BE CONTINUOUSLY PUMPED FROM EXCAVATIONS UNTIL THE GEOTECHNICAL ENGINEER OF RECORD DETERMINES SUCH SEEPAGE NO LONGER IMPACTS THE BEARING SOILS OR ENGINEERED FILL OR CONSTRUCTION OF FOOTINGS AND FLOOR SLABS.

- (4) POSITIVE DRAINAGE SHALL BE OBTAINED AWAY FROM THE STRUCTURES AND CARE REQUIRED FOR BACKFILLING AND DRAINAGE OF UTILITY TRENCHES DURING CONSTRUCTION SHALL BE PROVIDED PER THE GEOTECHNICAL REPORT AND THE CIVIL DRAWINGS.

- (5) EXCAVATIONS SHALL BE PERFORMED IN ACCORDANCE WITH ALL GOVERNING SAFETY REGULATIONS INCLUDING OSHA. THERE SHALL BE NO SURCHARGE LOAD FROM VEHICLES, EQUIPMENT, MATERIALS, SOIL PILES ETC. NEAR THE GREST OF THE EXCAVATION SLOPES PER THE GEOTECHNICAL REPORT. THE RESPONSIBILITY FOR EXCAVATION SAFETY AND TEMPORARY CONSTRUCTION SLOPES LIES SOLELY WITH THE CONTRACTOR.

- (6) A 6" THICK AGGREGATE BASE COURSE ACTING AS A CAPILLARY BREAK AND A VAPOR BARRIER SHALL BE PLACED BELOW ALL INTERIOR SLABS-ON-GRADE PER THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS. A MINIMUM 15 MIL VAPOR BARRIER SHALL BE PLACED ON TOP OF THE AGGREGATE BASE AND DIRECTLY BELOW THE SLAB WITH ALL SEAMS OVERLAPPED A MINIMUM OF 6" AND TAPED. THE SLAB SHALL BE PROPERLY CURED AS INDICATED IN THESE GENERAL STRUCTURAL NOTES AND THE PROJECT SPECIFICATIONS AS WELL AS PER THE RECOMMENDATIONS OF THE AGI TO AVOID CURLING.

- (7) CLEAN FOOTING EXCAVATIONS OF SNOW, WATER, MUD, LOOSE SOIL AND DEBRIS PRIOR TO PLACING FOOTING CONCRETE.

- (8) FOOTINGS MAY NOT BE EARTH FORMED.

- (9) ALL FOOTINGS ARE CENTERED UNDER THE PIERS, COLUMNS OR WALLS THEY SUPPORT, EXCEPT AS NOTED OTHERWISE.

- (10) EXCAVATIONS AND BACKFILL SHALL BE EXECUTED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS AND SUPERVISION OF AN INDEPENDENT TESTING AGENCY AND LICENSED GEOTECHNICAL ENGINEER.

- (11) FOOTING EXCAVATIONS SHALL BE TO PROPER LINE AND LEVEL TO INSURE MINIMUM CONCRETE COVER OF FOOTING REINFORCEMENT FOR FOOTING DEPTH.

- (12) BACKFILL SHALL BE COMPACTED BY MECHANICAL MEANS.

- (13) BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION WALLS UNTIL THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO RESIST LATERAL PRESSURE AND HAS ADEQUATE DURABILITY.

- (14) PLACE ALL BACKFILL ACCORDING TO THE RECOMMENDATIONS AND UNDER THE GUIDANCE OF AN INDEPENDENT TESTING AGENCY AND A LICENSED GEOTECHNICAL ENGINEER.

- (15) PROTECT ALL FOUNDATIONS FROM THE ACTION OF WATER AND FREEZING.

- (16) SEE MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR ALL OPENINGS AND INSERTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. ALL OPENINGS AND INSERTS SHALL BE PLACED PRIOR TO CASTING CONCRETE.

- (17) NON-FROST SUSCEPTIBLE GRANULAR FILL IS TO CONSIST OF GRANULAR MATERIAL WITH LESS THAN 5% PASSING THE #200 SIEVE AND NO MORE THAN 40% PASSING THE #40 SIEVE.

DRILLED CONCRETE PIERS

- (1) DRILLED CONCRETE PIER FOUNDATIONS SHALL BEAR ON NATURAL, UNDISTURBED SOIL. DRILLED CONCRETE PIERS ARE DESIGNED USING A MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF, A MINIMUM LATERAL BEARING PRESSURE OF 100 PSF/FT, AND A MINIMUM SKIN FRICTION OF 130 PSF ON THE BOTTOM 5 FEET OF THE PIER. THESE ARE ASSUMED SOILS VALUES BASED ON THE MINIMUM VALUES LISTED IN IBC TABLE 1806.2. SHOULD EXISTING SUBGRADE SOILS APPEAR TO BE FILL MATERIAL, ORGANIC, UNSTABLE OR OTHERWISE BE INCONSISTENT WITH THE SOILS LISTED IN IBC TABLE 1806.2 THE GENERAL CONTRACTOR SHALL CONTACT A LICENSED GEOTECHNICAL ENGINEER FOR AN ON-SITE OBSERVATION TO DETERMINE THE ALLOWABLE SOIL BEARING CAPACITY PRIOR TO PLACING ANY CONCRETE. SHOULD THE ACTUAL ALLOWABLE SOIL BEARING CAPACITY, LATERAL BEARING PRESSURE, OR SKIN FRICTION BE LESS THAN THE ASSUMED ALLOWABLE (STATED ABOVE) USED FOR DESIGN, THE GENERAL CONTRACTOR SHALL CONTACT CSTRUCTURAL FOR REDESIGN PRIOR TO CONSTRUCTION

- (2) CLEAN DRILLED PIER EXCAVATIONS OF SNOW, WATER, MUD, LOOSE SOIL AND DEBRIS PRIOR TO PLACING FOOTING CONCRETE AND DO NOT ALLOW SOIL TO MIX WITH CONCRETE DURING CASTING OF PIERS.

- (3) CONCRETE SHALL BE PLACED AT THE BOTTOM OF THE PIER EXCAVATION WITH A HOSE OR TREMME. DO NOT ALLOW CONCRETE TO FALL TO BOTTOM OF PIER EXCAVATION.

- (4) ALL DRILLED PIERS ARE TO BE CENTERED UNDER THE COLUMNS THEY SUPPORT, EXCEPT AS NOTED OTHERWISE.

CONCRETE:

- (1) CONCRETE MIX DESIGN(S) SHALL BE BY AN INDEPENDENT TESTING LABORATORY AND SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL AT THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

- (2) CONCRETE MIX DESIGNS: ALL CEMENT IS TO BE PORTLAND LESTONE CEMENT (PLC) MEETING ASTM C595 WITH CEMENT TYPE AS INDICATED IN THE FOLLOWING MIX DESIGN(S) AND WITH MAXIMUM ALKALI CONTENT (NAEG) = 0.60%.

- FOOTINGS ARE TO HAVE A CONCRETE MIX DESIGN CONSISTING OF TYPE 1L CEMENT (5 SACK MIN.) AND A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI, 25% MAX FLY ASH ALLOWED, 1 1/2" MAX AGGREGATE SIZE, 4" MAX SLUMP, 0.46 MAX WATER-TO-CEMENT RATIO, NO AIR ENTRAINMENT, WATER REDUCING ADMIXTURE OK.

- FOUNDATION WALLS ARE TO HAVE A CONCRETE MIX DESIGN CONSISTING OF PLC TYPE 1L (6 SACK MIN.) AND A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, 25% MAX FLY ASH ALLOWED, 3/4" MAX AGGREGATE SIZE, 4" MAX SLUMP, 0.45 MAX WATER-TO-CEMENT RATIO, 5% TO 7% AIR ENTRAINMENT, WATER REDUCING ADMIXTURE OK, MID RANGE PLASTICIZER OK, SUPER PLASTICIZER REQUIRES PRIOR APPROVAL.

- INTERIOR SLABS-ON-GRADE ARE TO HAVE A CONCRETE MIX DESIGN CONSISTING OF TYPE 1L CEMENT (6 SACK MIN.) AND A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, 25% MAX FLY ASH (NOTE: FLY ASH WILL RETARD INITIAL SET TIME), 3/4" MAX AGGREGATE SIZE, 4" MAX SLUMP, 0.42 MAX WATER-TO-CEMENT RATIO, NO AIR ENTRAINMENT, WATER REDUCING ADMIXTURE OK, MID RANGE AND SUPER PLASTICIZER REQUIRES PRIOR APPROVAL.

- DRILLED PIERS ARE TO HAVE A CONCRETE MIX DESIGN CONSISTING OF TYPE 1L CEMENT (5 SACK MIN.) AND A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, 25% MAX FLY ASH ALLOWED, 3/4" MAX AGGREGATE SIZE, 4" MAX SLUMP, 0.42 MAX WATER-TO-CEMENT RATIO, 5 TO 7% AIR-ENTRAINMENT, WATER REDUCING ADMIXTURE OK, SUPER PLASTICIZER REQUIRES PRIOR APPROVAL.

- FLOWABLE FILL CONCRETE (CONTROLLED DENSITY FILL - CDF) IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 150 PSI AND A MAXIMUM STRENGTH OF 200 PSI AND IS TO CONSIST OF WATER, PORTLAND LIME CEMENT, FINE AGGREGATE AND FLYASH TO BE SELF-LEVELING NOT NEEDING VIBRATION OR COMPACTION WITH A DENSITY OF 100 TO 125 PCF.

- EXTERIOR EXPOSED ELEVATED SLABS (STOOD SLABS) ARE TO HAVE A CONCRETE MIX DESIGN CONSISTING OF TYPE 1L CEMENT (6 SACK MIN.) AND A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, 25% MAX FLY ASH (NOTE: FLY ASH WILL RETARD INITIAL SET TIME), 3/4" MAX AGGREGATE SIZE, 3" MAX SLUMP, 0.41 MAX WATER-TO-CEMENT RATIO, 5% TO 7% AIR ENTRAINMENT, WATER REDUCING ADMIXTURE OK, MID RANGE OK, SUPER PLASTICIZER

REQUIRES PRIOR APPROVAL.

- GROUT FOR STEEL BASE PLATES AND BEARING PLATES IS TO BE OF THE NON-SHRINK, NON-METALLIC TYPE MEETING ASTM C1107 WITH A MAXIMUM SLUMP OF 1" AND A 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI. FOLLOW MANUFACTURER'S DIRECTIONS FOR USE.

- (3) CONCRETE AGGREGATE SHALL MEET ASTM C33 WITH A MAXIMUM SHALE OR DELETERIOUS MATERIAL CONTENT OF 1%.

- (4) FLY ASH OF TYPE C MEETING CLASS F" MAY BE SUBSTITUTED BY WEIGHT FOR CEMENT UP TO MAXIMUM LIMITS INDICATED IN EACH CONCRETE MIX DESIGN.

- (5) MID-RANGE PLASTICIZER MEETING ASTM C494 TYPE D IS ACCEPTABLE IF NOTED IN MIX DESIGN. MIX IS TO HAVE A MAXIMUM SLUMP AS INDICATED ABOVE FOR THE PARTICULAR MIX DESIGN PRIOR TO ADDING THE MID-RANGE. ADJUST AIR CONTENT AS REQUIRED BY THE SUPPLIER DUE TO THE USE OF THE MID-RANGE AND ITS PROJECTED EFFECT ON THE AIR CONTENT. TEST FOR AIR AFTER MID-RANGE ADDITION TO ACHIEVE RANGE SPECIFIED. SLUMP IS TO BE TESTED TO MEET THAT SPECIFIED ABOVE FOR PARTICULAR MIX DESIGN. PRIOR TO ADDING MID-RANGE PLASTICIZER AND NO ADDITIONAL WATER MAY BE ADDED AFTER SLUMP TEST.

- (6) AIR ENTRAINING AGENTS SHALL MEET ASTM C260.

- (7) CONCRETE CONSTRUCTION SHALL CONFORM TO THE AGI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318.

- (8) HOT WEATHER CONCRETING PER ACI 308R AND COLD WEATHER PLACEMENT PER ACI 308R SHALL BE FOLLOWED WHERE WEATHER CONDITIONS WARRANT.

- (9) SLABS SHALL BE CURED WITH A CURING COMPOUND AS INDICATED IN THE SPECIFICATIONS AND PER THE RECOMMENDATIONS OF THE AGI CODE RELATIVE TO EXPOSURE TO SUNLIGHT, WIND, TEMPERATURE, ETC.

- (10) FORMS SHALL BE LEFT ON ALL WALLS FOR A MINIMUM OF 2 DAYS OR LONGER AS REQUIRED AT THE DISCRETION OF THE CONTRACTOR.

- (11) A CONTINUOUS BOND BREAK, SUCH AS 3/8" ASPHALTIC FIBER BOARD EXPANSION JOINT MATERIAL, SHALL BE PLACED BETWEEN THE CONCRETE SLAB AND THE PERIMETER FOUNDATION WALLS.

- (12) ALL CONCRETE POURS SHALL BE TESTED FOR STRENGTH (PER ASTM C31 AND C39), SLUMP AND AIR CONTENT. TEST ONE CYLINDER AT 1 DAYS, ONE AT 14 DAYS, TWO AT 28 DAYS AND HOLD ONE CYLINDER.

- (13) ALL CONCRETE REINFORCING SHALL MEET ASTM SPECIFICATION A615, GRADE 60.

- (14) REINFORCING STEEL SHALL BE BENT AND PLACED IN ACCORDANCE WITH THE AGI CODE. ALL TENSION SPLICES SHALL BE CLASS 'B', 48 BAR DIAMETERS, MINIMUM. ALL COMPRESSION SPLICES SHALL BE 40 BAR DIAMETERS (MINIMUM), UNLESS NOTED OTHERWISE. LAP ALL CORNER BARS.

- (15) PROVIDE ADEQUATE SUPPORT BARS AND ACCESSORIES TO HOLD ALL REBAR FIRMLY IN PLACE.

- (16) ALL SLABS ARE TO BE REINFORCED WITH BARS LOCATED AS CALLED OUT ON STRUCTURAL DRAWINGS. G.C. MUST USE REBAR SUPPORT CHAIRS TO HOLD ALL SLAB BARS FIRMLY IN THEIR REQUIRED LOCATION DURING POURING. CHAIRS ARE TO BE PLACED FREQUENTLY ENOUGH TO ENSURE NO MORE THAN 1/4" OF SAG IS PRESENT IN ANY REINFORCING BARS.

- (17) CONCRETE COVER FOR REINFORCING SHALL BE PER ACI 318.

- (21) SLABS-ON-GRADE ARE TO BE REINFORCED AS SHOWN ON PLANS AND DETAILS. PLACE SLABS WITH CONSTRUCTION AND CONTRACTION JOINTS PER DETAILS.

- (19) OPENINGS IN CONCRETE SHALL BE REINFORCED WITH (2) #5 BARS EACH SIDE, EXTENDING 30" PAST THE FACE OF THE OPENING UNLESS OTHERWISE NOTED.

- (20) INTERIOR CONCRETE SLABS-ON-GRADE MUST NOT BE ALLOWED TO FREEZE AFTER POURING. SUBGRADE SOIL TEMPERATURE BENEATH INTERIOR SLABS-ON-GRADE MUST BE MAINTAINED ABOVE FREEZING AT ALL TIMES AFTER POURING. CONCRETE SHALL NOT BE POURED ON FROZEN SOILS.

- (21) ALL REINFORCING SPECIFIED FOR INTERIOR SLABS-ON-GRADE AND ELEVATED SLABS SHALL BE SUPPORTED ADEQUATELY AND FIRMLY ON CHAIRS TO MAINTAIN THE CLEAR DISTANCES SPECIFIED.

- (22) NO ELECTRICAL CONDUITS OR OTHER PIPING SHALL BE DIRECTLY ATTACHED TO THE REINFORCING STEEL OR OTHERWISE SUSPENDED WITHIN IN CONCRETE SLAB-ON-GRADE OR ELEVATED SLABS NOR SHALL CONDUIT OR PIPING OF ANY KIND BE PLACED ON TOP OF METAL FLOOR/DECK OR COMPOSITE DECKING. ALL CONDUIT OR PIPING MUST BE ATTACHED TO THE UNDERSIDE OF THE SLAB/DECKING AFTER THE CONCRETE HAS BEEN CAST AND CURED AND SHALL PENETRATE THE SLAB/DECKING AT PLANNED LOCATIONS. SEE PLANS AND TYPICAL DETAILS FOR PENETRATIONS IN ELEVATED SLABS.

- (23) ALL VERTICAL WALL AND PIER BARS MUST BE EXTENDED TO WITHIN 2' OF THE TOP OF FOUNDATION WALLS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ALL HORIZONTAL FOUNDATION WALL BARS MUST BE PLACED WITHIN 4" OF THE TOP AND BOTTOM OF THE WALL UNLESS SHOWN OTHERWISE.

- (24) ALL EPOXY-SET REBAR DOWELING TO CONCRETE SHALL BE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM, DEWALT AC208+ WITH DUSTX+ HOLLOW DRILL BIT SYSTEM, OR EQUAL, EXCEPT AS NOTED OTHERWISE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

- (25) ALL ADHESIVE ANCHOR INSTALLATIONS IN THE HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE CONDUCTED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER AS CERTIFIED BY AGI PER AGI 318-11 9.2.2 OR AGI 318-14 17.8.2.2 OR AGI 318-19 17.2.3 OR APPROVED EQUIVALENT. CURRENT AGI CERTIFICATE MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY ADHESIVE ANCHOR INSTALLATIONS.

STRUCTURAL STEEL:

- (1) STRUCTURAL STEEL WORK IS TO BE PER AISC SPECIFICATIONS. STEEL GRADE SHALL BE ASTM A572 (FY=50 KSI) FOR WIDE FLANGE SHAPES, ASTM A500, GRADE B (FY=46 KSI) FOR COLD-FORMED STEEL TUBES AND ASTM A36 (FY=36KSI) FOR OTHER SHAPES EXCEPT AS NOTED OTHERWISE ON THE DRAWINGS.

- (2) BEAMS AND COLUMNS SHALL BE ERECTED TRUE AND PLUMB, PROVIDE TEMPORARY BRACING.

- (3) BEARING PLATES FOR STEEL BEAMS AND COLUMNS SHALL BE DRY PACKED WITH DRY GROUT AS SPECIFIED.

- (4) ALL BOLTS IN STRUCTURAL STEEL CONNECTIONS SHALL BE ASTM F3125, GROUP A, STANDARD HEAVY HEX HEAD OR TWIST-OFF TENSION CONTROL (TC) HIGH-STRENGTH BOLTS, EXCEPT AS NOTED OTHERWISE.

- (5) ALL ANCHOR RODS FOR STRUCTURAL STEEL COLUMNS SHALL BE ASTM F1554, GRADE 36 (FY=56KSI) THREADED ROD WITH A NUT ON THE EMBEDDED END AS INDICATED ON THE DRAWINGS.

- (6) ALL SCREEN ANCHORS SHALL BE CARBON STEEL HILTI KWIK HUS-EZ OR DEWALT SCREEN-BOLT+, EXCEPT AS NOTED OTHERWISE. INSTALL BOLTS PER MANUFACTURER'S RECOMMENDATIONS WITH BOLT EMBEDMENT DEPTH INTO CONCRETE AS INDICATED ON STRUCTURAL DRAWINGS.

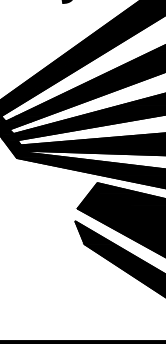
- (7) ALL EPOXY-SET THREADED ROD ANCHORAGE TO CONCRETE SHALL BE HILTI HIT-HY 200 SAFE SET SYSTEM WITH CARBON-STEEL ANCHORS (ANCHORS ARE TO CONSIST OF HAS-B-105' (FY=105 KSI) THREADED ROD MATERIAL MEETING ASTM 143, GRADE B+ PLACED IN HOLES CLEANED WITH THE HILTI HOLLOW DRILL BIT SYSTEM, EXCEPT AS NOTED OTHERWISE) OR DEWALT AC208+ ADHESIVE SYSTEMS WITH FY=105 KSI THREADED ROD MATERIAL MEETING ASTM 143, GRADE B+ PLACED IN HOLES CLEANED WITH THE DUSTX+ HOLLOW DRILL BIT SYSTEM). INSTALL PER MANUFACTURER'S RECOMMENDATIONS WITH BOLT EMBEDMENT DEPTH INTO CONCRETE AS INDICATED ON STRUCTURAL DRAWINGS. CONTRACTOR IS TO PROVIDE HEAT AS REQUIRED TO MAINTAIN MINIMUM REQUIRED CONCRETE BASE MATERIAL TEMPERATURE PER SUPPLIER RECOMMENDATIONS DURING EPOXY CURING.

- (8) NO FIELD WELDS ARE TO BE MADE UNTIL THE MEMBERS ARE PROPERLY ALIGNED. FIELD WELDS ARE TO BE MADE BY COMPETENT CERTIFIED WELDERS USING PROPER ELECTRODES AND AMPERAGE.

- (9) EXTERIOR EXPOSED STEEL SUPPORT FRAMING (SUCH AS ROOFTOP MECHANICAL & SCREENWALL SUPPORT FRAMING, ETC.) SHALL BE PAINTED WITH EXTERIOR WEATHER RESISTANT PAINT. PAINT SHALL HAVE A MINIMUM APPLIED DRY THICKNESS OF 6 MILS TOTAL, WHICH INCLUDES PRIMER, MID-COAT, AND TOP-COAT. PAINT OVER CONNECTIONS AND DO NOT DISASSEMBLE STRUCTURAL STEEL FABRICATIONS. STEEL FABRICATOR TO COORDINATE SHOP & FIELD PAINTED COATS WITH CONTRACTOR.

PROJECT NO. C26038
DRAWN BY MOB
CHECKED BY COW
DATE 8/2/2026
REVISION

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CHIPPEWA DOWNS GRANDSTAND

BELCOURT, NORTH DAKOTA

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REQUIRED SPECIAL INSPECTIONS OF CONCRETE CONSTRUCTION			
(IBC Table 1705.3)			
	FREQUENCY		Comments:
	Continuous	Periodic	
1) Inspect Reinforcement			
Inspect reinforcement, including prestressing tendons, and verify placement.		•	Verify reinforcing and placement as shown on drawings and per ACI 318 Ch. 20, 25.2, 25.3, 26.4.3-26.6.3 & IBC 1908.4
2) Reinforcing Bar Welding:			
Verify weldability of reinforcing bars other than ASTM A706.		•	Verify bar welding per AWS D1.4 & ACI 318: 26.6.4 A706.
Inspect single-pass fillet welds, maximum 5/16th, and inspect all other welds.	•		
3) Inspect anchors cast in concrete.		•	Verify anchors are cast in concrete per structural drawings and ACI 318: 17.8.2
4) Inspect anchors post-installed in hardened concrete members b:	•		Verify anchors are post-installed in concrete per structural drawings, ACI 318: 17.8.2.4 (adhesive anchors) & 17.8.3 (mechanical anchors)
Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	•		
Mechanical anchors and adhesive anchors not defined in 4.3.		•	
5) Verify use of required design mix.		•	Verify mix designs meet strength and exposure requirements listed on approved plans, verify compliance with ACI 318 Ch. 19, 26.4.3, 26.4.4, & IBC 1904.1, 1906.2, 1908.2, 1908.3
6) Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	•		Verify, perform, & examine tests per ASTM C172, ASTM C31, ACI 318: 26.4 & 26.12, and IBC 1908.10
7) Inspect concrete placement & application techniques.	•		Inspect concrete & shotcrete placement for proper applications per ACI 318: 26.5 & IBC 1908.6, 1908.7, & 1908.8
8) Verify curing temperature and techniques.		•	Verify concrete curing temperature and technique is being maintained per approved plans, ACI 318: 26.5.9-26.5.5, & IBC 1908.9
9) Inspect prestressed concrete for:			
Application of prestressing forces; and	•		Verify prestressed concrete per ACI 318: 26.10
Grouting of bonded prestressing tendons.	•		
10) Inspect erection of precast concrete.		•	Inspect erection per ACI 318: Ch. 26.8
11) Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		•	Verify strength per ACI 318: 26.11.2
12) Inspect formwork for shape, location and dimensions of the concrete member being formed.		•	Inspect formwork for shape, locations, and dimensions of concrete member being formed per approved drawings and ACI 318: 26.11.1-20th
For 10' - 16th - 24' max.			
See Where Applicable, See also Section 1705.12, Special Inspections for seismic resistance.			
88 Specific requirements for special inspection shall be included in the contract report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification provisions. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.			

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS			
(IBC 2015 Section 1705.6 & Table 1705.6)			
	FREQUENCY		Comments:
	Continuous	Periodic	
1) Minimum Testing:		•	
Verify Materials below shallow foundations are adequate to achieve the design bearing capacity.		•	
2) Prior to Construction:			
Verify excavations are extended to proper depth and have reached proper material.		•	
3) As Construction Begins:		•	
Perform classification and testing of compacted fill material.		•	
4) During Construction:			
Verify use of proper materials, densities and fill thicknesses during placement and compaction of compacted fill.	•		
Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.		•	

REQUIRED SPECIAL INSPECTIONS OF STRUCTURAL STEEL				
	FREQUENCY		Comments:	
	Continuous	Periodic		
OTHER THAN STRUCTURAL STEEL (IBC 1705.11.3)				
Steel Roof & Floor Deck: (SDI -QA/QC)				
Material verification of steel deck		•	Identification markings per applicable ASTM standard.	
Roof and floor deck welds		•	Verify that welds conform to AWS D1.3.	
Installation of mechanical fasteners		•	Verify that fasteners conform to SDI, C, ISO NC, ISO RD & manufacturer's instruction as well as construction documents	
STRUCTURAL STEEL CONSTRUCTION (IBC 1705.2, 1705.11, 1705.12)				
Prior to Welding (Table N5.4-1, AISC 360-16):				
Verify welding procedures	•			
Material identification		•	Verify type and grade of material.	
Welder identification		•	Verify there is a system in place to identify the welder who has welded a joint or member.	
Fit-up groove welds		•	Verify joint preparation, dimensions, cleanliness, tacking and backing.	
Access holes		•	Verify configuration and finish.	
Fit-up fillet welds		•	Verify alignment, gaps at root, cleanliness of steel surfaces, tack weld quality and location.	
During Welding (Table N5.4-02, AISC 360-16):				
Use of qualified inspectors		•	Verify that welders are appropriately qualified.	
Control and handling of welding consumables		•	Verify packaging and exposure control.	
Cracked tack welds		•	Verify welding is not over a cracked tack weld.	
Environmental conditions		•	Verify wind speed is within limits as well as precipitation and temperature.	
WPS followed		•	Verify items such as welding equipment settings, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.	
Welding techniques		•	Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass.	
Steel headed studs anchors atop beams	•		Verify placement and installation of steel headed stud anchors. See general structural notes for additional commentary of the testing of headed stud anchors	
After Welding (Table N5.4-3, AISC 360-16):				
Welds cleaned		•	Verify that welds have been properly cleaned.	
Size, length and location of welds	•			
Welds meet visual acceptance criteria	•			
Arc strikes	•			
Excess area	•			
Backing & welding tabs removed	•			
Repair activities	•			
Document acceptance/rejection of weld		•		
No prohibited welds have been added without the approval of the EOR		•		
Nondestructive Testing (N5.5, AISC 360-16):				
CIP welds (Risk Cat. II)		•	Ultrasonic testing shall be performed on 10% of CIP groove welds in butt, T and corner joints subject to transversely applied tension loading in materials 5/16 inch thick or greater. Testing rate must be increased if 5% of welds have unacceptable defects.	
CIP welds (Risk Cat. III or IV)		•	Ultrasonic testing shall be performed on 100% of CIP groove welds subjected to transversely applied tension loading in butt, T and corner joints, in materials 5/16 inch thick or greater. Testing rate must be increased if 5% of welds have unacceptable defects.	
Access holes (flange > 2")	•			
Welded joints subject to fatigue	•			
Other Steel Inspections (Table N5.7, AISC 360-16; Tables J8-1 and J10-1, AISC 341-10):				
Structural steel details		•	All fabricated steel and their connections shall be inspected to verify compliance with the details shown in the approved plans.	
Anchor rods/embels supporting structural steel		•	Shall be on the premises during the placement of anchor rods/embellishments. Verify diameter, grade, type, and length of element and the extent or depth of embedment prior to placement of concrete.	
Reduced beam sections (RBS)		•	Verify contour and finish as well as dimensional tolerances (see Table J8-1 of AISC 341).	
Protected Zones		•	Verify that no holes or unapproved attachments are made within the protected zone (see Table J8-1 of AISC 341).	
OPEN-WEB STEEL JOIST AND JOIST GIRDERS (2015 IBC Section 1705.2.3 & TABLE 1705.2.3)				
Installation of Open-Web Steel Joists and Joist Girders				
End connections -- welded or bolted.		•	SA specifications listed in Section 2207.1.	
Bridging -- horizontal or diagonal.				
Standard bridging.		•	SA specifications listed in Section 2207.1.1	
Bridging that differs from the SA specifications listed in Section 2207.1.1		•		

WOOD AND TIMBER CONSTRUCTION:

- (1) ALL SAWN LUMBER, SHEATHING, ENGINEERED LUMBER, AND TIMBER CONSTRUCTION SHALL CONFORM TO JOIST NOTES AND SPECIFICATIONS AS WELL AS AMERICAN WOOD COUNCIL (AWC), AND AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) STANDARDS.
- (2) UNLESS NOTED OTHERWISE, ALL DIMENSION LUMBER (2" TO 4" THICK X 2" AND WIDER) SHALL BE HEM-FIR NO. 2 OR SPRUCE-PINE-FIR NO.1/NO. 2 OR BETTER WITH A MINIMUM ALLOWABLE BENDING STRESS OF 850 PSI, SHEAR PARALLEL TO GRAIN STRESS OF 135 PSI, COMPRESSION PARALLEL TO GRAIN STRESS OF 1,150 PSI, COMPRESSION PERPENDICULAR TO GRAIN STRESS OF 405 PSI AND MODULUS OF ELASTICITY OF 1,300,000 PSI.
- (3) ALL DIMENSIONAL LUMBER FOR WALL PLATES (2" TO 4" THICK X 2" AND WIDER) IN CONTACT WITH CONCRETE SHALL BE TREATED AND SHALL CONSIST OF PRESSURE TREATED SOUTHERN YELLOW PINE NO. 2 OR BETTER WITH DESIGN VALUES PER THE CURRENT ANSI/APA NATIONAL DESIGN SPECIFICATION (NDS) SUPPLEMENT. DESIGN VALUES WILL VARY BASED ON THE WIDTH OF THE MEMBER.
- (4) ALL DIMENSIONS LUMBER FOR BEARING WALLS AND ROOF JOISTS & BEAMS SHALL CONSIST OF MACHINE STRESS RATED (MSR) LUMBER (2" TO 4" THICK X 2" AND WIDER) IS TO BE GRADE 1650F-1.5E OR BETTER AND HAVE A MINIMUM ALLOWABLE BENDING STRESS OF 1,650 PSI, SHEAR PARALLEL TO GRAIN STRESS (HORIZONTAL SHEAR) OF 135 PSI, COMPRESSION PARALLEL TO GRAIN STRESS OF 1,100 PSI, COMPRESSION PERPENDICULAR TO GRAIN STRESS OF 405 PSI AND MODULUS OF ELASTICITY OF 1,500,000 PSI.
- (5) ALL STRUCTURAL FRAMING MEMBERS INCLUDING BEAMS, JOISTS, ETC (2" TO 4" THICK X 2" AND WIDER) NOTED ON THE PLANS AS 'TREATED' SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE NO. 1 GRADE WITH THE FOLLOWING MINIMUM MATERIAL PROPERTIES: BENDING STRESS OF 1,000 PSI, SHEAR PARALLEL TO GRAIN STRESS OF 175 PSI, COMPRESSION PARALLEL TO GRAIN STRESS OF 1,400 PSI, COMPRESSION PERPENDICULAR TO GRAIN STRESS OF 565 PSI AND MODULUS OF ELASTICITY OF 1,600,000 PSI.
- (6) ALL LAMINATED VENEER LUMBER (LVL) SHALL HAVE AN ALLOWABLE BENDING STRESS OF 3,100 PSI, COMPRESSION PERPENDICULAR TO GRAIN STRESS (PARALLEL TO GLUE LINE) OF 750 PSI, COMPRESSION PARALLEL TO GRAIN STRESS OF 3,000 PSI, HORIZONTAL SHEAR STRESS PERPENDICULAR TO GLUE LINE OF 285 PSI, AND MODULUS OF ELASTICITY OF 2,000,000 PSI.
- (7) ALL WOOD CONSTRUCTION SHALL CONFORM TO CHAPTER 23 OF THE INTERNATIONAL BUILDING CODE (IBC), EXCEPT AS NOTED OTHERWISE. ALL NAILING SHALL CONFORM TO TABLE 2304.10.2 "FASTENING SCHEDULE" OF THE INTERNATIONAL BUILDING CODE UNLESS THOSE REQUIREMENTS NOTED ON THE PLANS AND SPECIFICATIONS ARE MORE STRICT.
- (8) JOINTS IN LOAD BEARING WALL TOP PLATES ARE TO BE OFFSET AT LEAST 48". ALL JOINTS ARE TO ALSO OCCUR CENTERED ON WOOD STUD BELOW. IF STUD ISNT PRESENT, G.C. MUST INSTALL NEW STUD DIRECTLY BELOW JOINT (STUD TO BE TYPICAL SIZE AND TYPE).
- (9) HOLES IN SAWN LUMBER SHALL BE AS SPECIFIED IN THE INTERNATIONAL BUILDING CODE (IBC).
- (10) DIMENSION LUMBER USED FOR HEADERS AND JAMB MEMBERS SHALL BE FREE OF CHECKS AND SPLITS.
- (11) ALL WOOD HEADERS SHALL HAVE STUD SUPPORTS AS INDICATED ON THE PLANS AND HEADER SCHEDULES WITH A MINIMUM OF 2 FULL HEIGHT STUDS AND 1 CRIPPLE STUD AT EACH END OF EACH HEADER.
- (12) NO NOTCHING OF STUDS, JOISTS, RAFTERS, BEAMS OR TRUSSES IS PERMITTED WITHOUT THE ENGINEER'S APPROVAL. HOLES BORED IN THE STUD OR JOIST SHALL BE IN THE MIDDLE OF THE MEMBER. THE MAXIMUM DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-FOURTH THE DEPTH OF THE MEMBER.
- (13) FASTENING OF STRUCTURAL WOOD MEMBERS SHALL BE AS SPECIFIED AND AS DETAILED.
- (14) ENGINEERED WOOD SUPPLIER (LAMINATED VENEER LUMBER, PARALLAMS, ETC.) SHALL FURNISH ALL HANGERS AND HARDWARE FOR ALL WOOD TO WOOD AND WOOD TO MASONRY OR CONCRETE WALL CONNECTIONS, EXCEPT AS NOTED OTHERWISE.
- (15) STUD WALLS ARE TO BE CONSTRUCTED WITH CONTINUOUS TREATED SILL PLATE AND WITH DOUBLE TOP PLATE. SEE PLANS AND DETAILS FOR STUD SIZES. FOUNDATION WALL PLATES ON CONCRETE OR MASONRY WALLS FOR LOAD BEARING WALLS SHALL BE ANYPB FOR CGA TREATED SOUTHERN YELLOW PINE NO. 2 GRADE MINIMUM. FOUNDATION WALL PLATES FOR NON-LOAD BEARING WALLS SHALL BE ANYPB LP-2 CGA TREATED PONDEROSA PINE STANDARD AND BETTER OR STUD GRADE MINIMUM. SILLS SHALL BE ANCHORED TO CONCRETE OR MASONRY WITH 5/8" DIAMETER BY 4" GALVANIZED ANCHOR BOLTS WITH 3" HOOK SPACED AT 48" O.C. MAXIMUM OR AS NOTED OTHERWISE. THERE SHALL BE A MINIMUM OF 3 BOLTS PER PIECE WITH ONE BOLT LOCATED WITHIN 6" OF EACH END OF EACH PIECE. THERE SHALL BE NO SILL SPLICE UNDER ANY POST OR JAMB.
- (16) ALL CONSTRUCTION ADHESIVE FOR WOOD-TO-WOOD, WOOD-TO-STEEL, WOOD-TO-CONCRETE SHALL MEET PERFORMANCE SPECIFICATIONS APA AFG-01 AND ASTM D-3498 AND SHALL HAVE A MINIMUM SHEAR STRENGTH AT 28 DAYS OF 400 PSI. G.C. TO FOLLOW ALL MANUFACTURERS RECOMMENDATIONS FOR ADHESIVE INSTALLATION TIME, TEMPERATURE, CONDITIONS, AND COVERAGE, PROVIDED THAT THE FULL SURFACE AREA OF BOTH MEMBERS/SURFACES TO BE BONDED ARE COVERED W/ ADHESIVE AS RECOMMENDED.
- (17) ALL FASTENERS INCLUDING NAILS, SCREWS, ANCHOR BOLTS, ETC. AND CONNECTORS IN CONTACT WITH TREATED LUMBER OR SHEATHING SHALL BE HOT-DIP GALVANIZED WITH A MINIMUM GAO COATING. INCLUDING ALL FASTENERS FROM WALL STUDS TO TREATED WALL SILL PLATES.
- (18) ALL EXTERIOR EXPOSED FRAMING CONNECTORS AND FASTENERS PER IBC 2304.10.5 MUST MEET ASTM A653, TYPE G185 ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL OR EQUIVALENT.

HORIZONTAL WOOD STRUCTURAL PANEL SHEATHING (ROOFS):

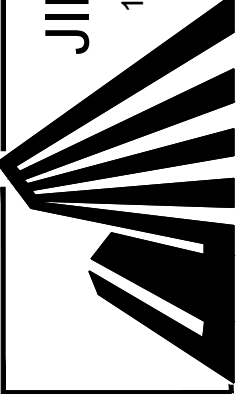
- (1) ROOF SHEATHING DIAPHRAGM - ALL EXTERIOR ROOF SHEATHING SHALL BE A MINIMUM OF 15/32" EXPOSURE I RATED PLYWOOD SHEATHING (WITH A 24/16 APA SPAN RATING) CONFORMING TO DOC PS 1, DOC PS 2, OR CSA 0431 OR CSA 0325. ALL PANELS SHALL BE IDENTIFIED WITH A GRADE MARK OF CERTIFICATE OF INSPECTION ISSUED BY AN APA APPROVED AGENCY. PANELS ARE TO BE UNBLOCKED EXCEPT THAT EDGES OF ALL PANELS SHALL BE SUPPORTED ON TRUSS, JOIST, OR BLOCKING AT ROOF EDGES AS DETAILED. SHEATHING SHALL BE FASTENED WITH 10D COMMON OR GALVANIZED BOX NAILS (GALVANIZED NAILS SHALL BE HOT-DIPPED OR TUMBLED) AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE FRAMING MEMBERS. NAILS ARE TO HAVE A MINIMUM PENETRATION OF 1 1/2" INTO FRAMING MEMBERS AND ARE TO BE LOCATED NOT LESS THAN 3/8" FROM EDGES OF PANELS AND FRAMING.
- (2) ALL ROOF PANEL SHEATHING SHALL BE ORIENTED WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTS.
- (3) ROOF SHEATHING PANELS SHALL BE CONTINUOUS OVER THREE OR MORE SPANS (MINIMUM).

VERTICAL WOOD STUD SHEARNALLS:

- (1) SHEARWALLS ARE TO BE PROVIDED AND LOCATED AS INDICATED ON THE STRUCTURAL DRAWINGS TO PROVIDE PERMANENT LATERAL SUPPORT OF THE STRUCTURE. WALL SEGMENTS INDICATED AS SHEARWALLS ARE TO CONSIST OF WALL SHEATHING, WOOD STUD FRAMING AND HOLDDOWNS WITH SPECIAL FASTENING AND ANCHORAGE AS INDICATED.
- (2) SHEARWALL SHEATHING IS TO BE INSTALLED BY THE FRAMING CONTRACTOR (NOT THE DRYWALL CONTRACTOR) AS THIS IS A STRUCTURAL ELEMENT REQUIRING SPECIFIC STRUCTURAL FASTENING. THE SHEARWALL SHEATHING AND HOLDDOWNS ARE TO BE INSTALLED PRIOR TO FRAMING ANY INTERIOR PARTITIONS AS THE SHEARWALL SHEATHING IS TO RUN CONTINUOUS BEHIND PARTITION WALL INTERSECTIONS ALONG SHEARWALLS AT INTERIOR FACES (WHERE NOTED). SHEATHING AND HOLDDOWNS ARE ALSO TO BE INSTALLED AND LOCATED PRIOR TO INSTALLATION OF MECHANICAL COMPONENTS TO AVOID CONFLICTS WITH THE STRUCTURAL SYSTEM.
- (4) NO WALL PENETRATIONS ARE ALLOWED THROUGH SHEARWALLS (GREATER THAN 12" X 12" IN SIZE) UNLESS AUTHORIZED BY THE STRUCTURAL ENGINEER. ALL PENETRATIONS SHALL HAVE 2X6 BLOCKING ALL SIDES WITH EDGE FASTENERS AS INDICATED FOR THE PARTICULAR SHEARWALL CONTAINING THE OPENING.
- (5) EXTERIOR SHEARWALL SHEATHING - ALL EXTERIOR WALLS SHALL BE CONSIDERED "SHEARNALLS" AND SHALL BE SHEATHED WITH A MINIMUM OF 15/32" EXPOSURE I RATED PLYWOOD OR OSB SHEATHING (ONE EXTERIOR SIDE OF WALL) WITH A 24/16 APA SPAN RATING CONFORMING TO DOC PS 1, DOC PS 2, OR CSA 0431 OR CSA 0325. ALL PANELS SHALL BE IDENTIFIED WITH A GRADE MARK OF CERTIFICATE OF INSPECTION ISSUED BY AN APA APPROVED AGENCY. EXTERIOR SHEARWALLS SHALL BE BLOCKED DIAPHRAGMS WITH THE EDGES OF ALL PANELS SUPPORTED BY WALL STUDS OR A MINIMUM 2X BLOCKING TO MATCH THE WALL STUD WIDTH. SHEATHING SHALL BE FASTENED WITH 2D (2 1/2" X 0.131" COMMON OR 2 1/2" X 0.113" GALVANIZED BOX NAILS) AT 6" O.C. AT PANEL EDGES TO STUDS AND BLOCKING AND AT 12" O.C. AT INTERMEDIATE WALL STUD FRAMING MEMBERS. GALVANIZED NAILS ARE TO BE HOT DIPPED OR TUMBLED. NAILS ARE TO HAVE A MINIMUM PENETRATION OF 1 1/2" INTO FRAMING MEMBERS AND ARE TO BE LOCATED NOT LESS THAN 3/8" FROM EDGES OF PANELS & FRAMING. SHEARWALL HOLDDOWNS REQUIRED SHALL BE INSTALLED AND ANCHORED TO STUDS AS SPECIFIED BY THE HOLDDOWN SUPPLIER AND TO CONCRETE FOUNDATIONS AS REQUIRED AND INDICATED ON THE STRUCTURAL DRAWINGS.
- (2) INTERIOR SHEARWALL SHEATHING - ALL INTERIOR WALLS INDICATED ON THE PLANS AS "INTERIOR SHEARNALLS" SHALL BE CONSIDERED "SHEARNALLS" AND SHALL BE SHEATHED WITH A MINIMUM OF 15/32" EXPOSURE I RATED PLYWOOD OR OSB SHEATHING (BOTH SIDES OF WALL) WITH A 24/16 APA SPAN RATING CONFORMING TO DOC PS 1, DOC PS 2, OR CSA 0431 OR CSA 0325. ALL PANELS SHALL BE IDENTIFIED WITH A GRADE MARK OF CERTIFICATE OF INSPECTION ISSUED BY AN APA APPROVED AGENCY. INTERIOR SHEARWALLS SHALL BE BLOCKED DIAPHRAGMS WITH THE EDGES OF ALL PANELS SUPPORTED BY WALL STUDS OR A MINIMUM 2X BLOCKING TO MATCH THE WALL STUD WIDTH. SHEATHING SHALL BE FASTENED WITH 2D (2 1/2" X 0.131" COMMON OR 2 1/2" X 0.113" GALVANIZED BOX NAILS) AT 6" O.C. AT PANEL EDGES TO STUDS AND BLOCKING AND AT 12" O.C. AT INTERMEDIATE WALL STUD FRAMING MEMBERS. GALVANIZED NAILS ARE TO BE HOT DIPPED OR TUMBLED. NAILS ARE TO HAVE A MINIMUM PENETRATION OF 1 1/2" INTO FRAMING MEMBERS AND ARE TO BE LOCATED NOT LESS THAN 3/8" FROM EDGES OF PANELS & FRAMING. SHEARWALL HOLDDOWNS REQUIRED SHALL BE INSTALLED AND ANCHORED TO STUDS AS SPECIFIED BY THE HOLDDOWN SUPPLIER AND TO CONCRETE FOUNDATIONS AS REQUIRED AND INDICATED ON THE STRUCTURAL DRAWINGS.
- (3) SHEARWALL HOLDDOWNS - PROVIDE 2- 2X STUDS AT SHEARWALL END STUDS NEXT TO WINDOW AND DOOR OPENINGS AND AT BUILDING CORNERS. SECURE DOUBLE END STUDS TO FOUNDATION WALL WITH SIMPSON HDUE TYPE HOLDDOWNS (OR EQUAL) WITH 5/8" DIAMETER F1554 GALVANIZED (GRADE 55) THREADED ANCHOR BOLT AND NUT (WITH NUT AND 16" OR 12" EMBEDMENT INTO CONCRETE AS NOTED AND DETAILED). SEE FOUNDATION PLAN AND DETAILS FOR LOCATIONS AND ANCHORAGES TO FOUNDATION. HOLDDOWNS SHALL BE ANCHORED TO DOUBLE ENDWALL STUDS AS SPECIFIED BY THE HOLDDOWN SUPPLIER.
- (4) WALL SHEATHING PANELS MUST BE INSTALLED HORIZONTALLY AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS (MINIMUM).
- (5) IN WALLS WITH LIKE SHEATHING ON INSIDE AND OUT, OFFSET SHEATHING PANEL JOINTS ON EACH SIDE OF WALL A MINIMUM OF ONE STUD BAY.

PROJECT NO. C2603B
DRAWN BY MOB
CHECKED BY CKW
DATE 08/08/2026
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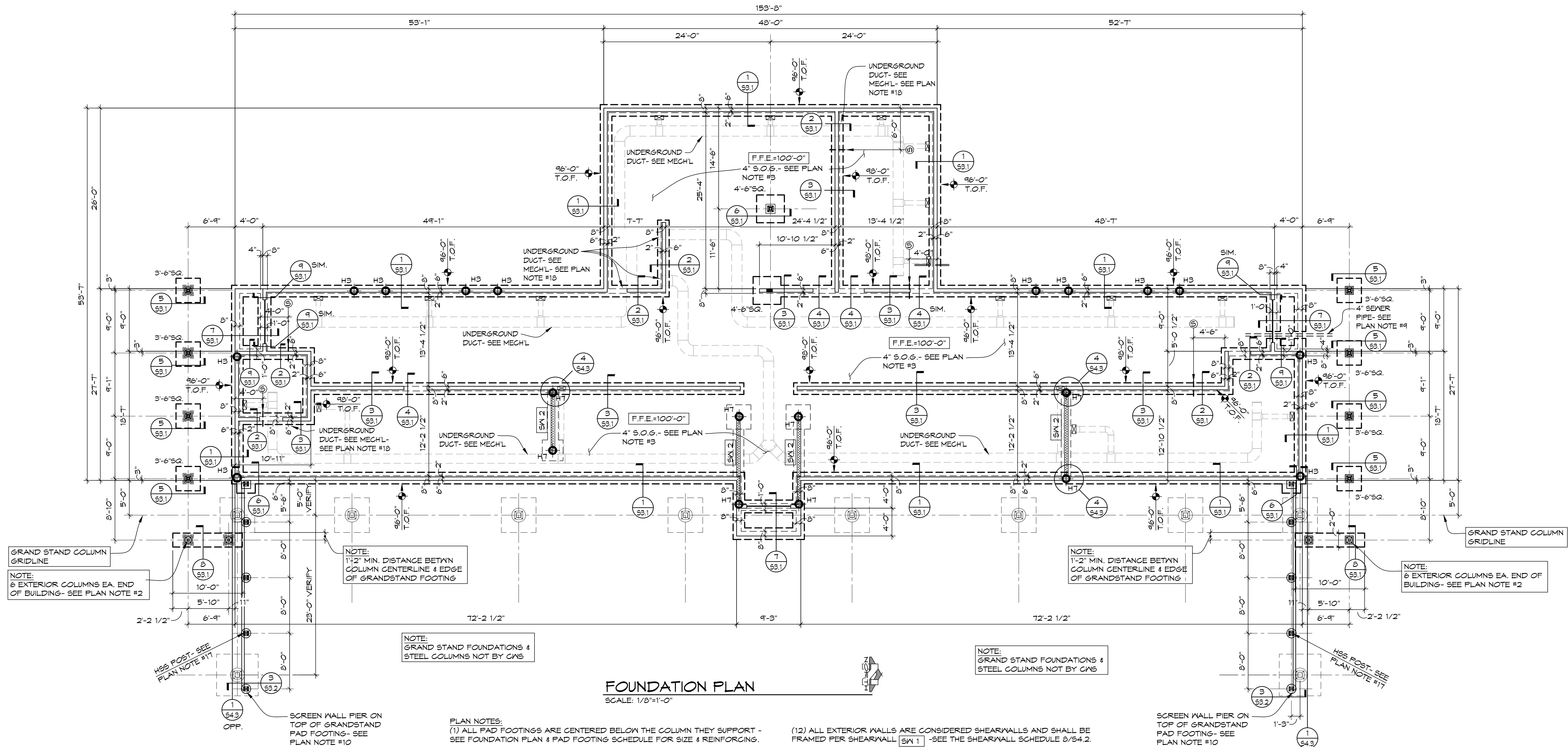


CHIPPEWA DOWNS GRANDSTAND
BELMOUNT, NORTH DAKOTA

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OF 9





PAD FOOTING SCHEDULE		
(2000 PSF ALLOWABLE SOIL BRG CAPACITY)		
SIZE	THICKNESS	REINFORCING
3'-6" SQ.	12"	(4) #4 HORIZ. EA. WAY
4'-6" SQ.	12"	(5) #4 HORIZ. EA. WAY

FOOTING REINFORCING NOTES:
 1.) SPACE BARS EVENLY EACH WAY ACROSS MATS
 2.) UNLESS NOTED OTHERWISE, ALL REBAR MATS ARE REQUIRED TO BE LOCATED 3" CLEAR FROM BOTTOM AND SIDES OF FOOTING

SHEARWALL HOLDOWN ANCHOR SCHEDULE			
MARK	HOLDOWN SIZE	ANCHOR BOLT SIZE (GALVANIZED)	EMBED
H3	HDUE3-SD53	5/8" DIA. F1554 (GR. 55) HEADED ANCHOR RODS	12"
H7	HDUE7-SD53	5/8" DIA. F1554 (GR. 55) HEADED ANCHOR RODS	16"

SHEARWALL HOLDOWN SCHEDULE NOTES:
 (1) ALL ANCHORS BOLTS ARE TO BE CAST-IN-PLACE AND NO EPOXY/SCREEN ANCHORS WILL BE ALLOWED.

- PLAN NOTES:
- (1) ALL PAD FOOTINGS ARE CENTERED BELOW THE COLUMN THEY SUPPORT - SEE FOUNDATION PLAN & PAD FOOTING SCHEDULE FOR SIZE & REINFORCING.
 - (2) H85 5X5X3/16" STEEL COLUMNS W/ 11"x11" BASE PLATE - SEE DETAIL 1/53.2.
 - (3) 4" CONCRETE SLAB-ON-GRADE R/W #4 BARS AT 24" O.C. EACH WAY ON TOP 6" GRANULAR BASE- SEE SPECIFICATIONS
 - (4) ALL CONTINUOUS WALL FOOTINGS ARE 12" THICK UNREINFORCED, AND PROJECT 8" BEYOND EACH FACE OF FOUNDATION THEY SUPPORT, EXCEPT AS NOTED OTHERWISE- SEE DETAIL.
 - (5) INDICATES STEP IN CONTINUOUS WALL FOOTING. SPACE STEPS AT 4'-0" FROM BUILDING CORNERS AND OTHER FOOTINGS STEPS PER DETAIL 6/53.2 OR EXCEPT AS SHOWN OTHERWISE.
 - (6) INDICATES TOP OF FOOTING ELEVATION. T.O.F.
 - (7) GENERAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR BUILDING GROUNDING WIRE ATTACHMENT TO FOUNDATION WALL REINFORCING PRIOR TO POURING FOUNDATION WALL.
 - (8) 4" CONCRETE HOUSEKEEPING PADS BY G.C. R/W #4 @ 16" O.C. EA. WAY (GTRD IN SLAB). G.C. TO VERIFY SIZE, NUMBER AND LOCATION WITH MECHANICAL & ELECTRICAL.
 - (9) MECHANICAL PIPING CROSSING FOUNDATION WALL- SEE FOLLOWING RECOMMENDATIONS REGARDING PIPING & FOUNDATION CONFLICTS INDICATED ON PLAN. COORDINATE ALL OTHER LOCATIONS NOT SHOWN WITH STRUCTURAL ENGINEER.:
 - (10) CONCRETE PIER FOR CLOSURE WALL IS BEARING ON GRANDSTAND FOOTING- GRAND STAND SUPPLIER TO DESIGN PAD FOR ADD'L LOADING FRAME CLOSURE WALL- SEE PLAN (4 TOTAL LOCATIONS)- SEE DET. 3/53.2
 - (11) INDICATES APPROXIMATE LOCATION OF SHEAR WALL HOLDOWN TO BE LOCATED AT END OF SHEAR WALL SEGMENT AT BASE OF WALL BELOW. SEE DETAIL 4/54.2, PLAN FOR LOCATIONS & REFER TO GENERAL STRUCTURAL SHEARWALL NOTES FOR ANCHORING REQUIREMENTS.

- (12) ALL EXTERIOR WALLS ARE CONSIDERED SHEARWALLS AND SHALL BE FRAMED PER SHEARWALL -SEE THE SHEARWALL SCHEDULE 8/54.2.
- (13) H# INDICATES SHEARWALL HOLDOWN SIZE- SEE PLAN FOR LOCATION SIZE @ DETAIL 9/54.2.
- (14) INDICATES SHEARWALL CONSTRUCTION- SEE PLAN & SHEARWALL SCHEDULE FOR WALL SHEATHING, FASTENER TYPE & SPACING- DETAIL 8/54.2
- (15) PROVIDE 3'-6"x3'-6"x1'-0" THICKENED SLAB CENTER ON HOLDOWN ANCHOR R/W #4 @ 12" O.C. EA. WAY 3" CLR. FOR BOTTOM.
- (16) THICKEN SLAB TO 8" THICK & 16" WIDE & REINFD (2) #4 CONT. BOT. 3" CLR.
- (17) SCREEN WALL COLUMN H85 6X3X1/4" (10 TOTAL) W/ TYPE "2" BASE PLATE- SEE DETAIL 2/53.2.
- (18) MECHANICAL DUCTS THRU FOUNDATION WALLS- SEE PLAN & DETAIL 4/53.2.

SOILS BOX NOTE:
 ASSUMED GEOTECHNICAL DESIGN VALUES - ALL CONCRETE FOUNDATION DESIGNS ARE BASED ON ASSUMED GEOTECHNICAL DESIGN VALUES TO BE CONFIRMED BY A GEOTECHNICAL ENGINEER. ALL FOUNDATION EXCAVATIONS MUST BE OBSERVED AND ALL ASSUMED DESIGN VALUES STATED BELOW SHALL BE VERIFIED IN WRITING BY A LICENSED GEOTECHNICAL ENGINEER FOLLOWING ON-SITE OBSERVATION PRIOR TO FABRICATING STEEL AND PLACING CONCRETE ANY CONCRETE. ALL ASSUMED GEOTECHNICAL DESIGN VALUES ARE AS FOLLOWS:

A. MINIMUM SOIL BEARING CAPACITY = 1500 PSF
 B. BACKFILL SOIL UNIT WEIGHT (γ) = 110 PCF (DRY)
 C. MAXIMUM LATERAL PRESSURE VALUES (GRANULAR BACKFILL WITH DRAINTILE):
 I. ACTIVE PRESSURE: 45 PCF
 II. AT-REST PRESSURE: 60 PCF
 III. PASSIVE PRESSURE: 250 PCF
 IV. COEFFICIENT OF FRICTION (CONCRETE ON SOIL): 0.35

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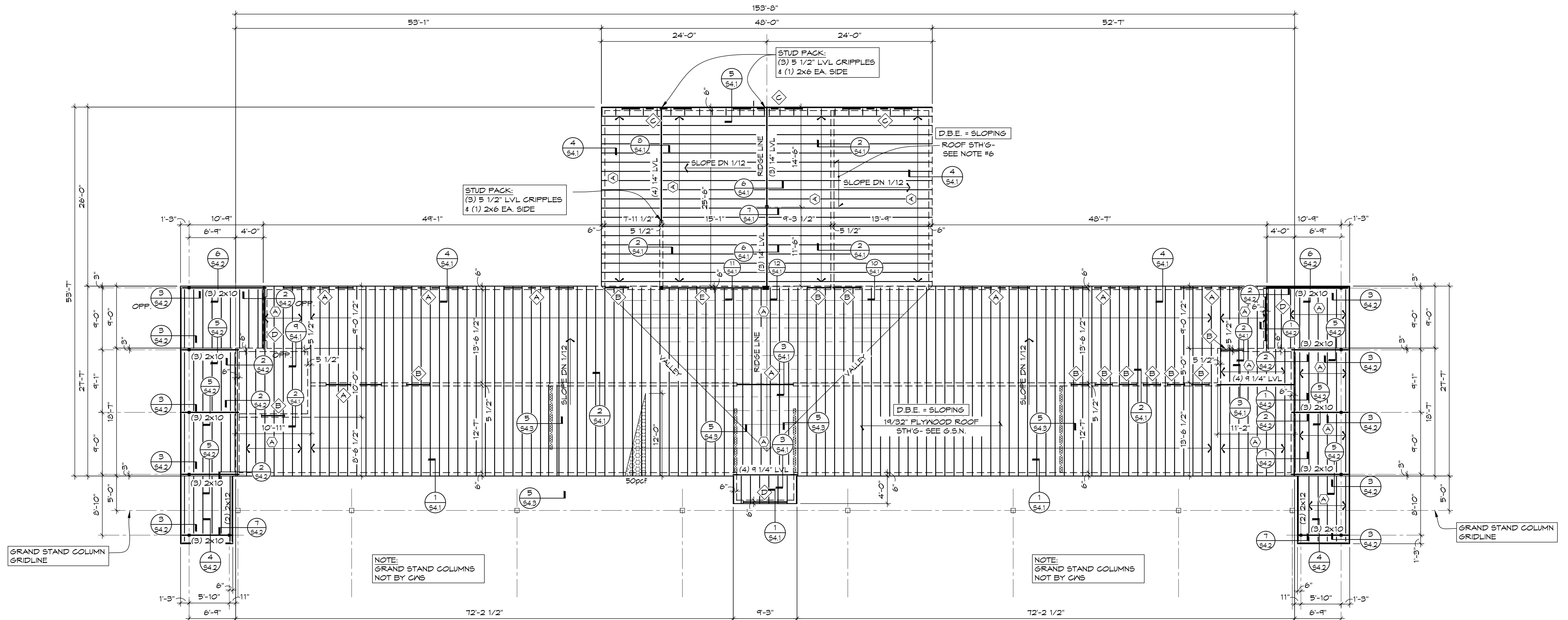
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CHIPPEWA DOWNS GRANDSTAND
 BELCOURT, NORTH DAKOTA

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OF 9



WOOD HEADER SCHEDULE					
MARK	HEADER	JAMB		SILL	MAX. ROUGH OPENING
		KING STUDS	JACK STUDS		
(A)	(3) 11 1/8" LVL	(3) 2x6	(2) 2x6	(3) 2x6	(3) 2x6
(B)	(3) 2x8	(1) 2x6	(1) 2x6	(2) 2x6	(2) 2x6
(C)	(3) 11 1/8" LVL	(3) 2x6	(2) 2x6	(3) 2x6	(3) 2x6
(D)	(3) 2x8	(2) 2x6	(1) 2x6	(2)-2x6	(2)-2x6
(E)	(3) 11 1/8" LVL	(1) 2x6	(3) 5 1/2" LVL	N/A	N/A

WOOD HEADER SCHEDULE NOTES:
 (1) SEE TYPICAL FRAMING DETAILS FOR STANDARD WOOD HEADER/SILL FRAMING DETAIL.
 (2) ALL LVL HEADER MEMBERS ARE 1 3/4" THICK UNLESS OTHERWISE NOTED.

ROOF FRAMING PLAN

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

PLAN NOTES:

- (1) INDICATES WOOD HEADER- SEE PLAN & WOOD HEADER SCHEDULE FOR HEADER SIZE & JAMB STUDS REQUIRED AT WALL OPENING.
- (2) ALL EXTERIOR WALL ARE CONSIDERED SHEARWALLS AND SHOULD BE CONSTRUCTED PER G.S.N. & SCHEDULE/DETAIL 8/54.2.
- (3) MECH'L OPENING THRU ROOF- SEE DETAIL 11/54.2.
- (4) INDICATES 2x12 ROOF JOIST @ 16"o.c. (MSR1650F-1.5E)
- (5) INDICATES INTERIOR SHEARWALL DETAILS.
- (6) 19/32" PLYWOOD ROOF STH'G- SEE G.S.N.



PROJECT NO. C26038
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 REVISION

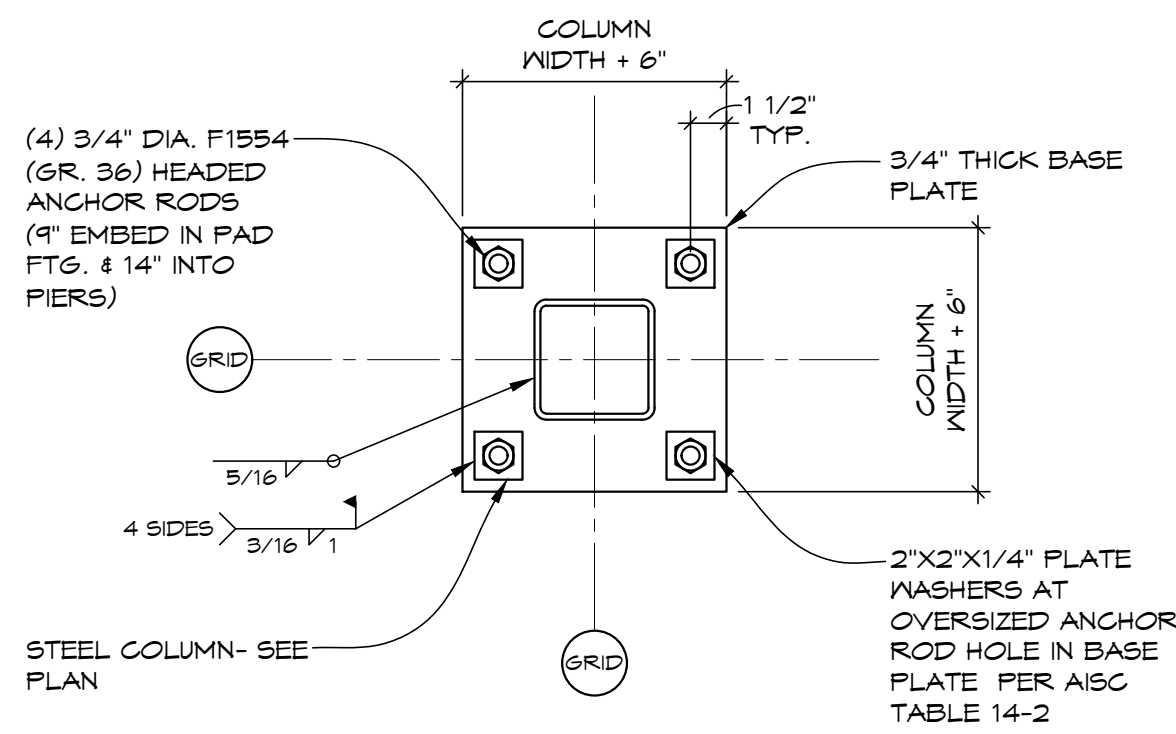
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CHIPPEWA DOWNS GRANDSTAND
 BELCOURT, NORTH DAKOTA

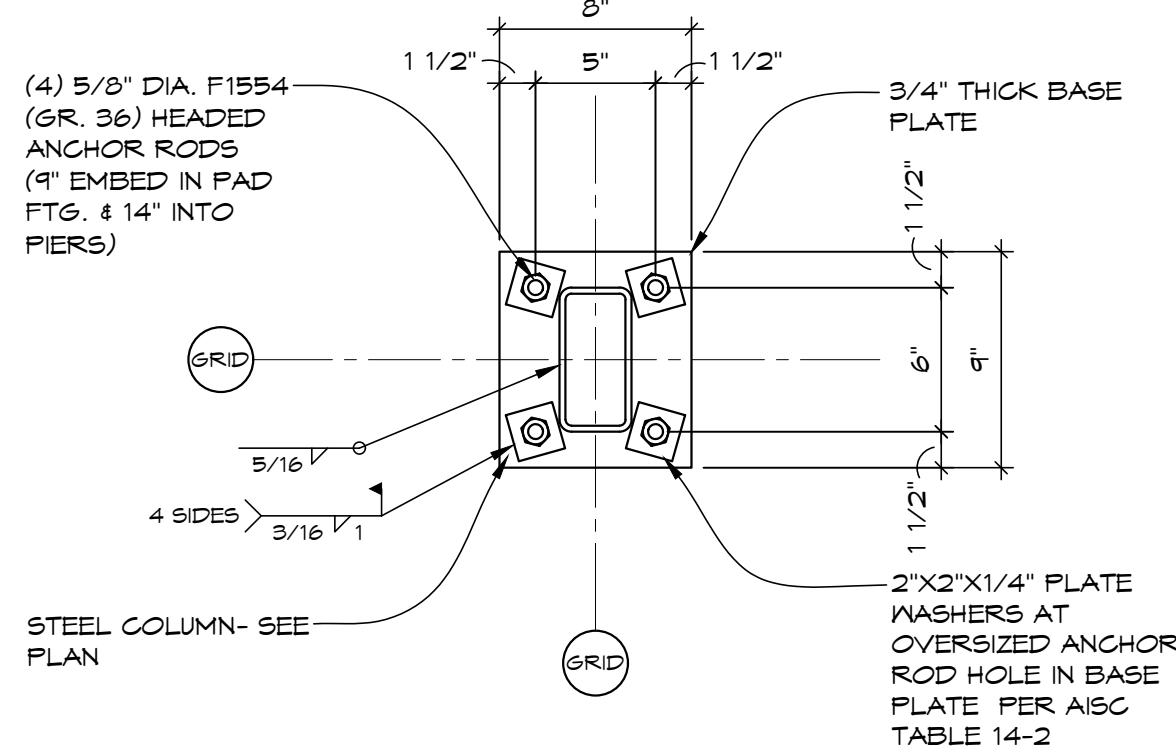
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OF 9

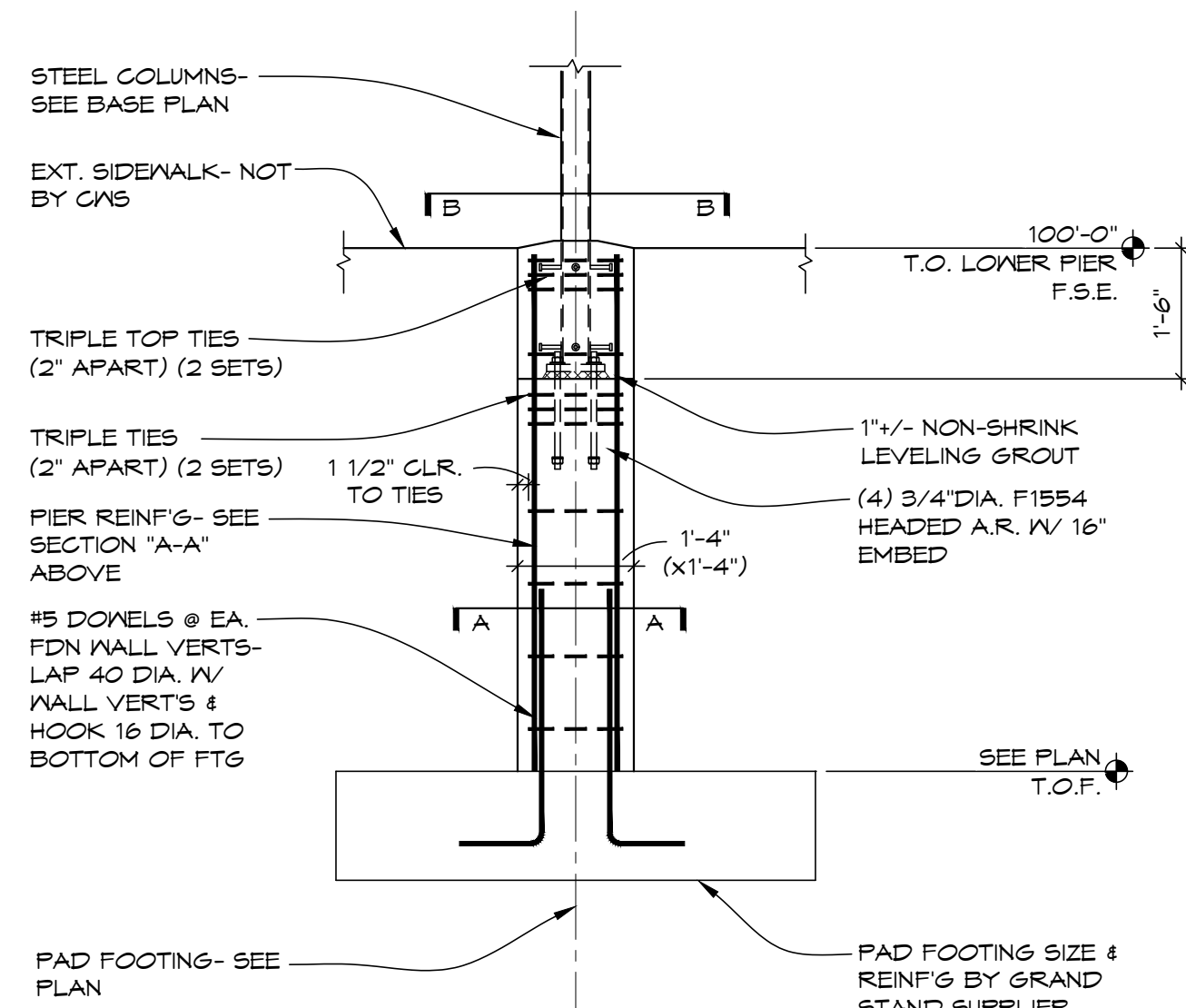




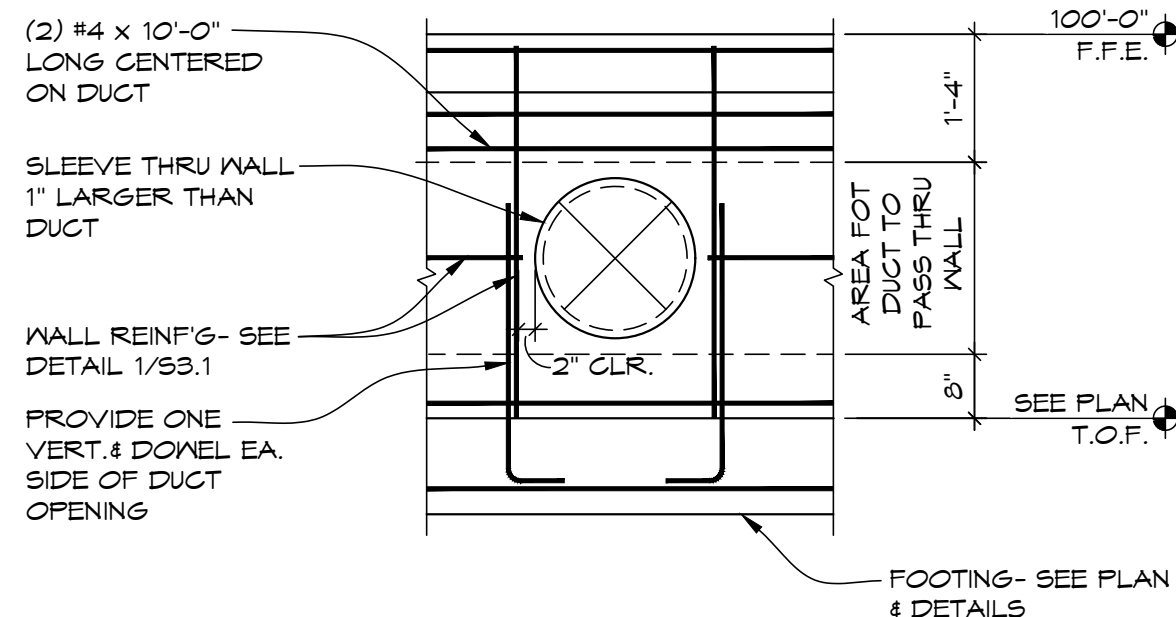
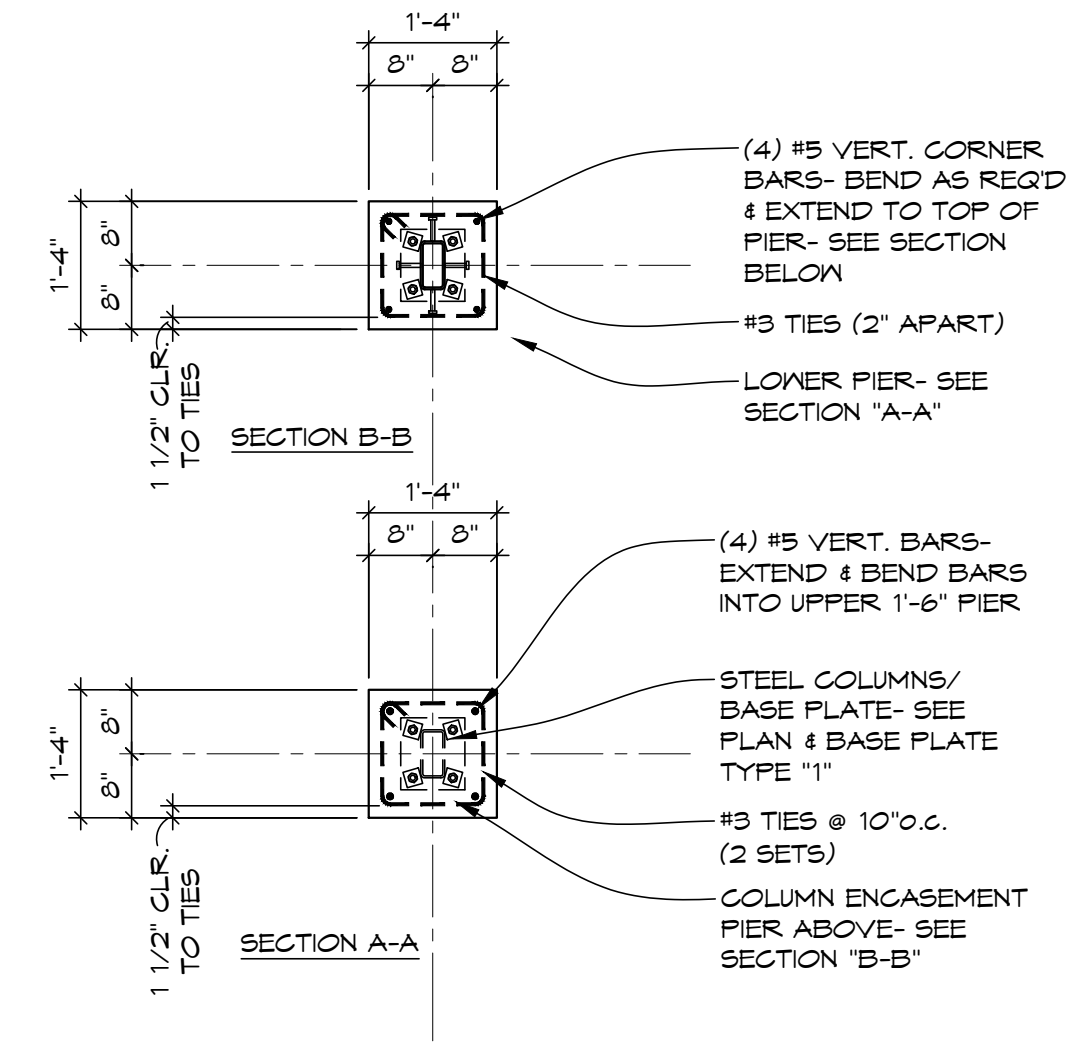
1 TYPE "1" BASE PLATE
53.2/ SCALE: 1 1/2"=1'-0"



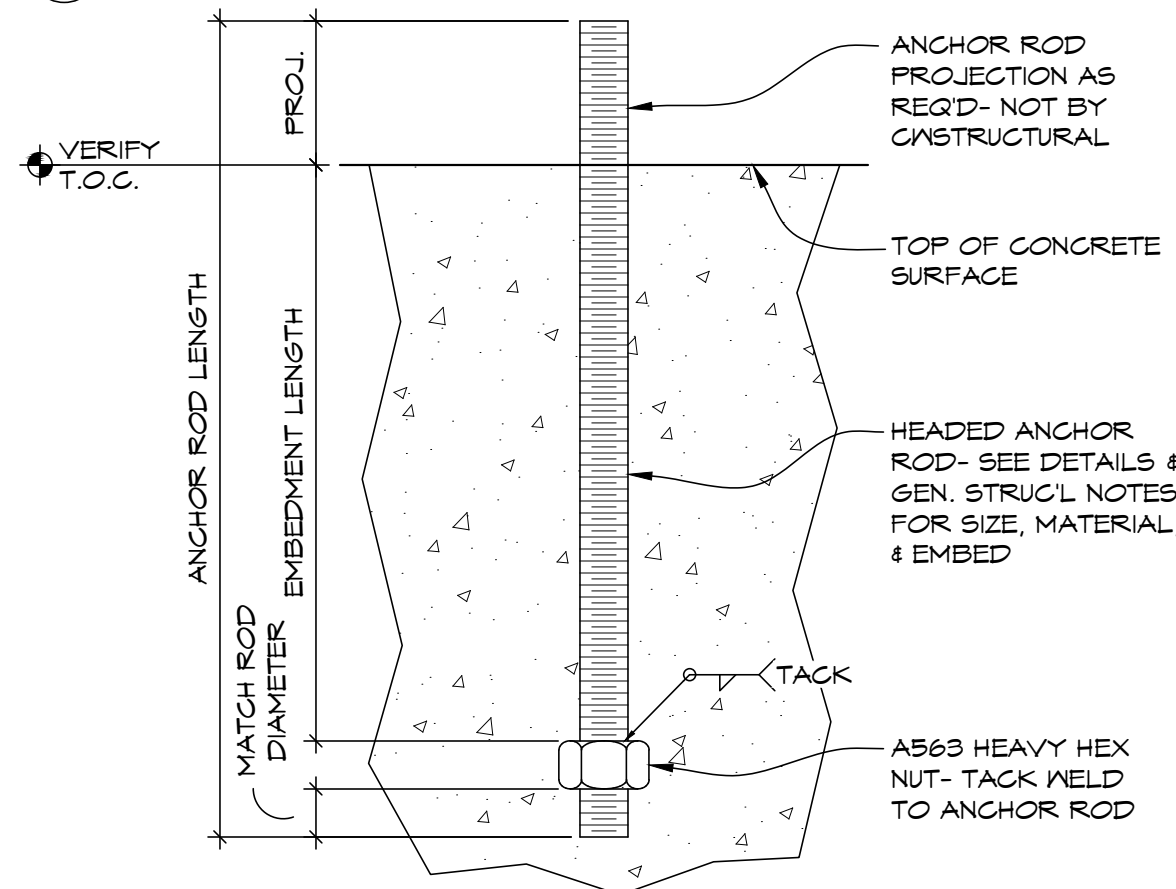
2 TYPE "2" BASE PLATE
53.2/ SCALE: 1 1/2"=1'-0"



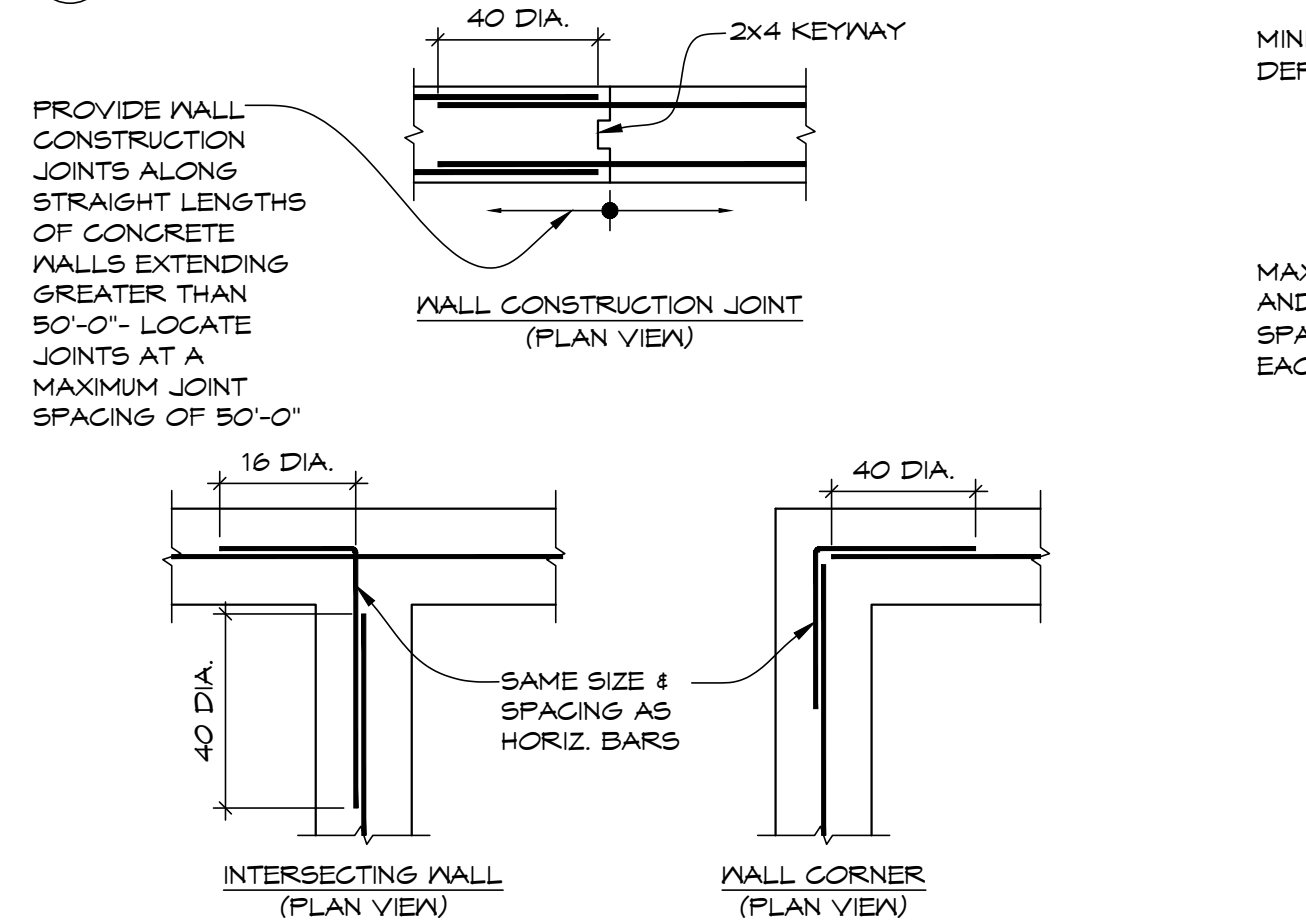
3 SHADE STRUCTURE PIER FOUNDATION
53.2/ SCALE: 1/2"=1'-0"



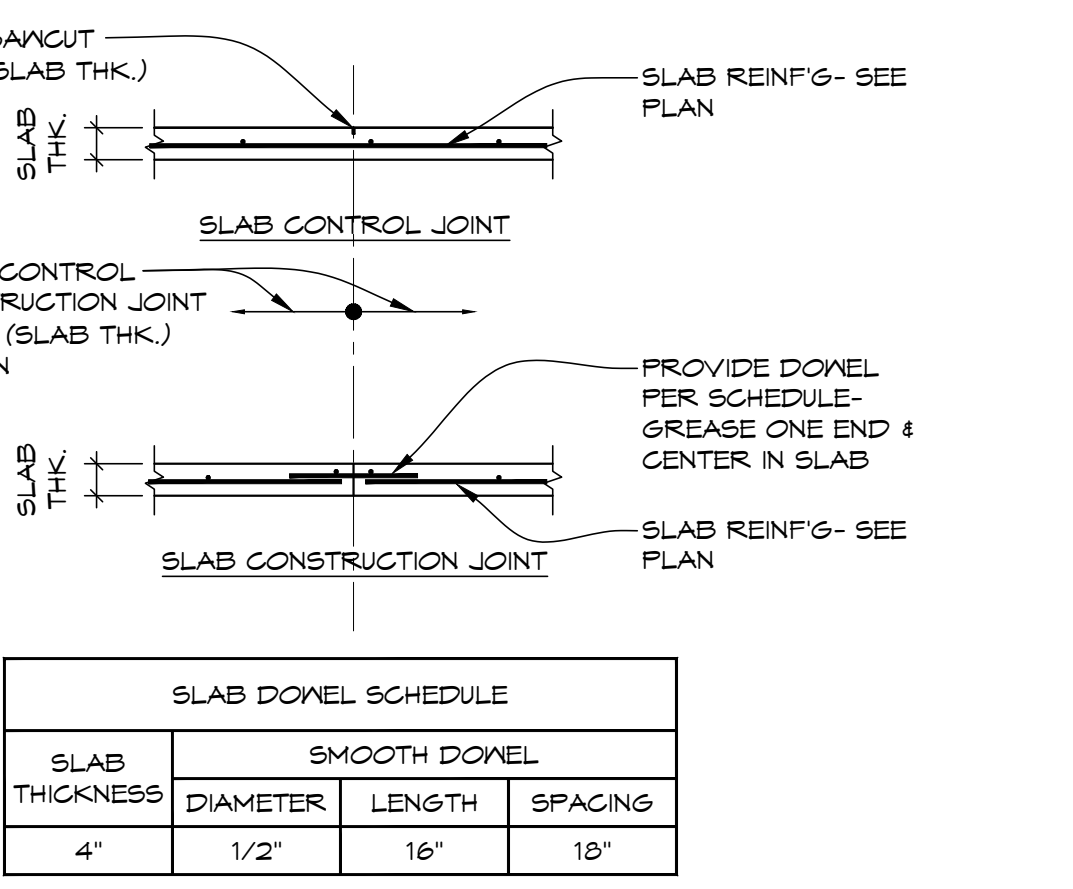
4 DUCT THRU FOUNDATION WALL
53.2/ SCALE: NONE



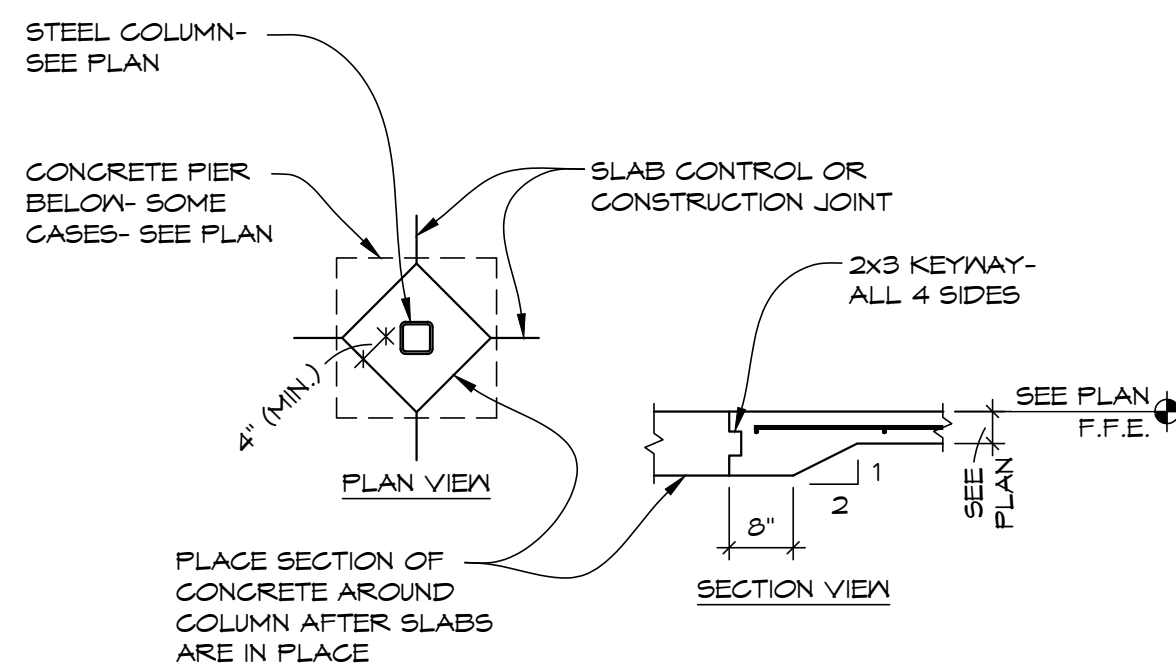
A TYPICAL HEADED ANCHOR ROD DETAIL
53.2/ SCALE: NONE



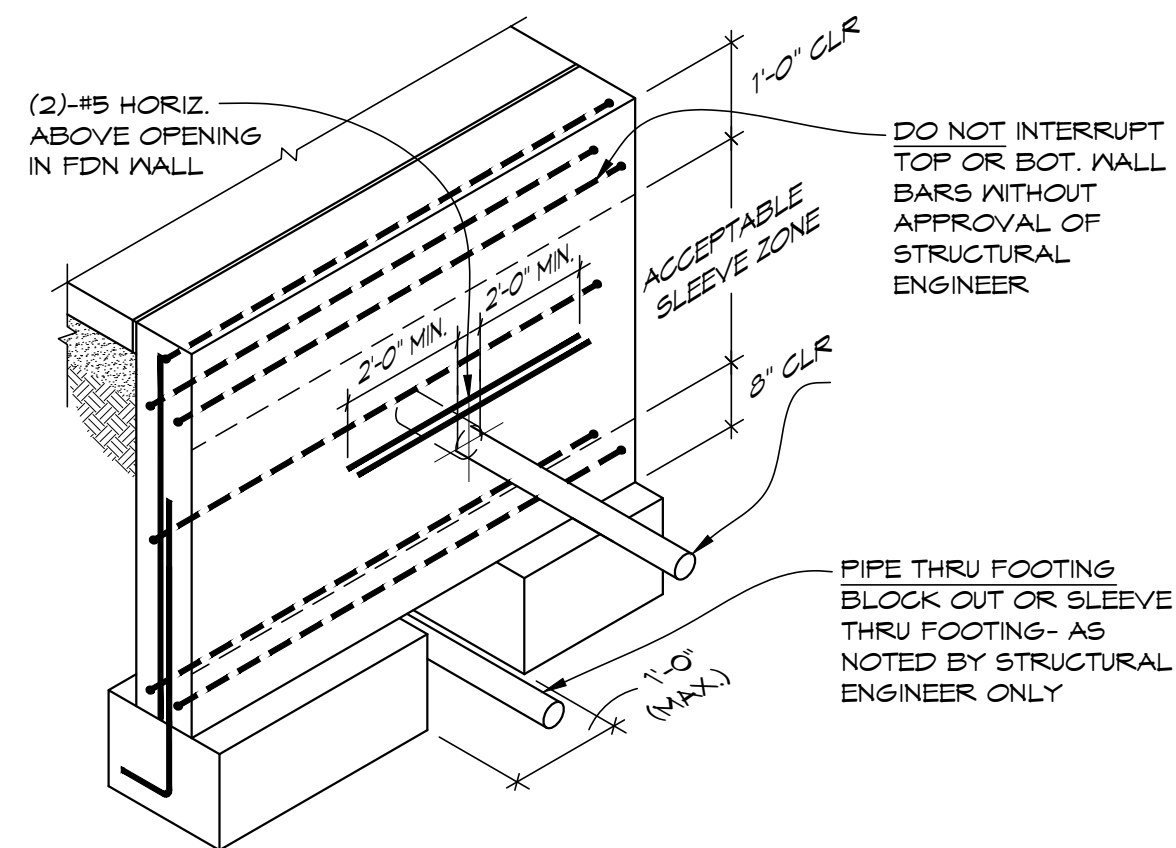
B TYP. CONCRETE WALL REINFORCING DETS
53.2/ SCALE: NO SCALE



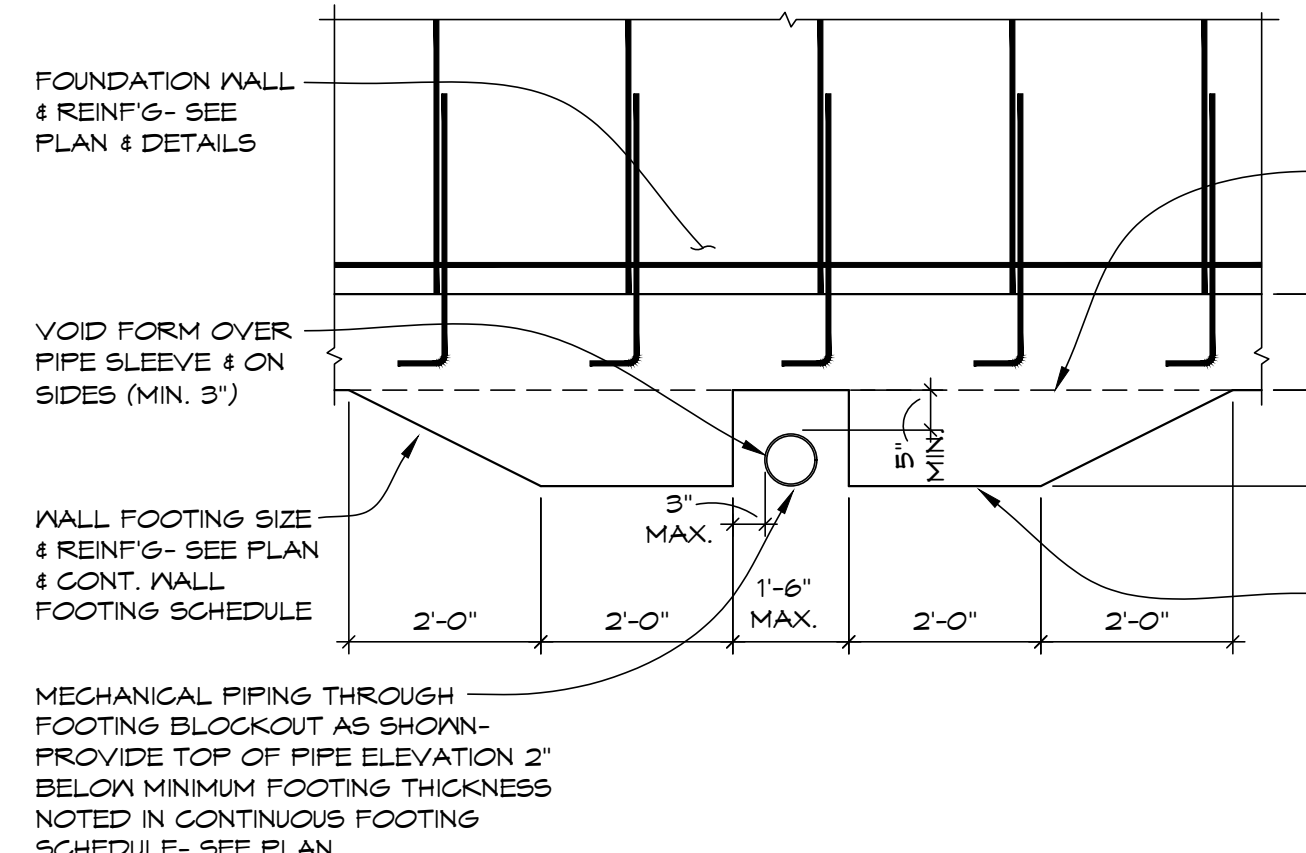
C TYPICAL SLAB-ON-GRADE JOINTING DETAIL
54.1/ SCALE: NO SCALE



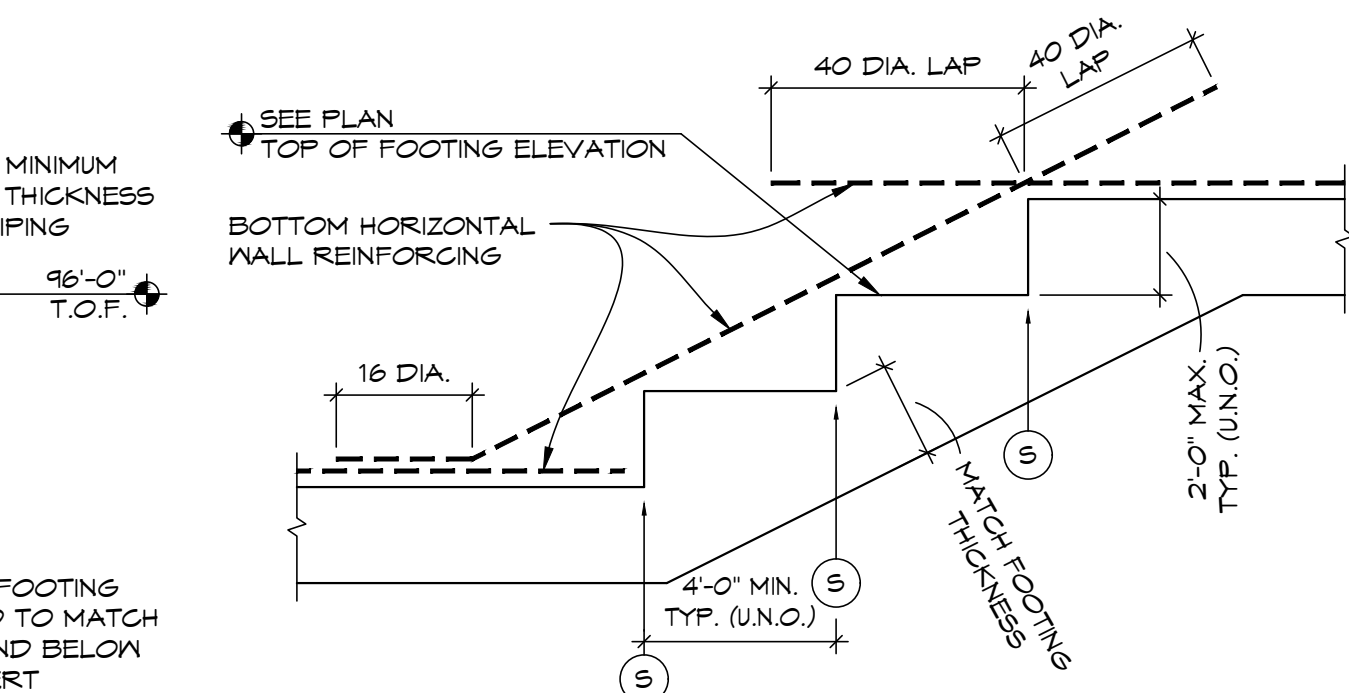
D TYPICAL COLUMN ISOLATION JOINT DETAIL
53.2/ SCALE: NO SCALE



E TYP. PIPING REQUIREMENTS CROSSING FDNS
53.2/ SCALE: 1/2"=1'-0"

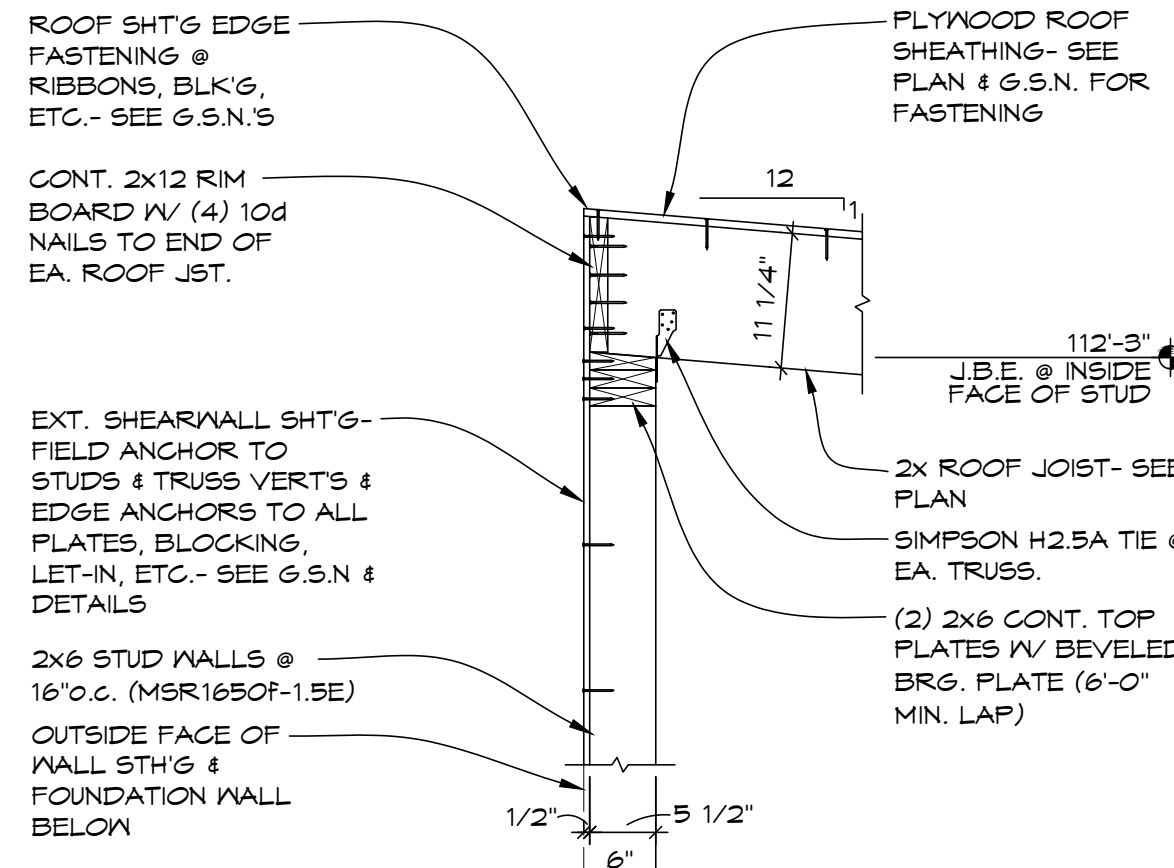


F THICKENED WALL FOOTING @ MECHANICAL PIPING
53.2/ SCALE: 1/2"=1'-0"



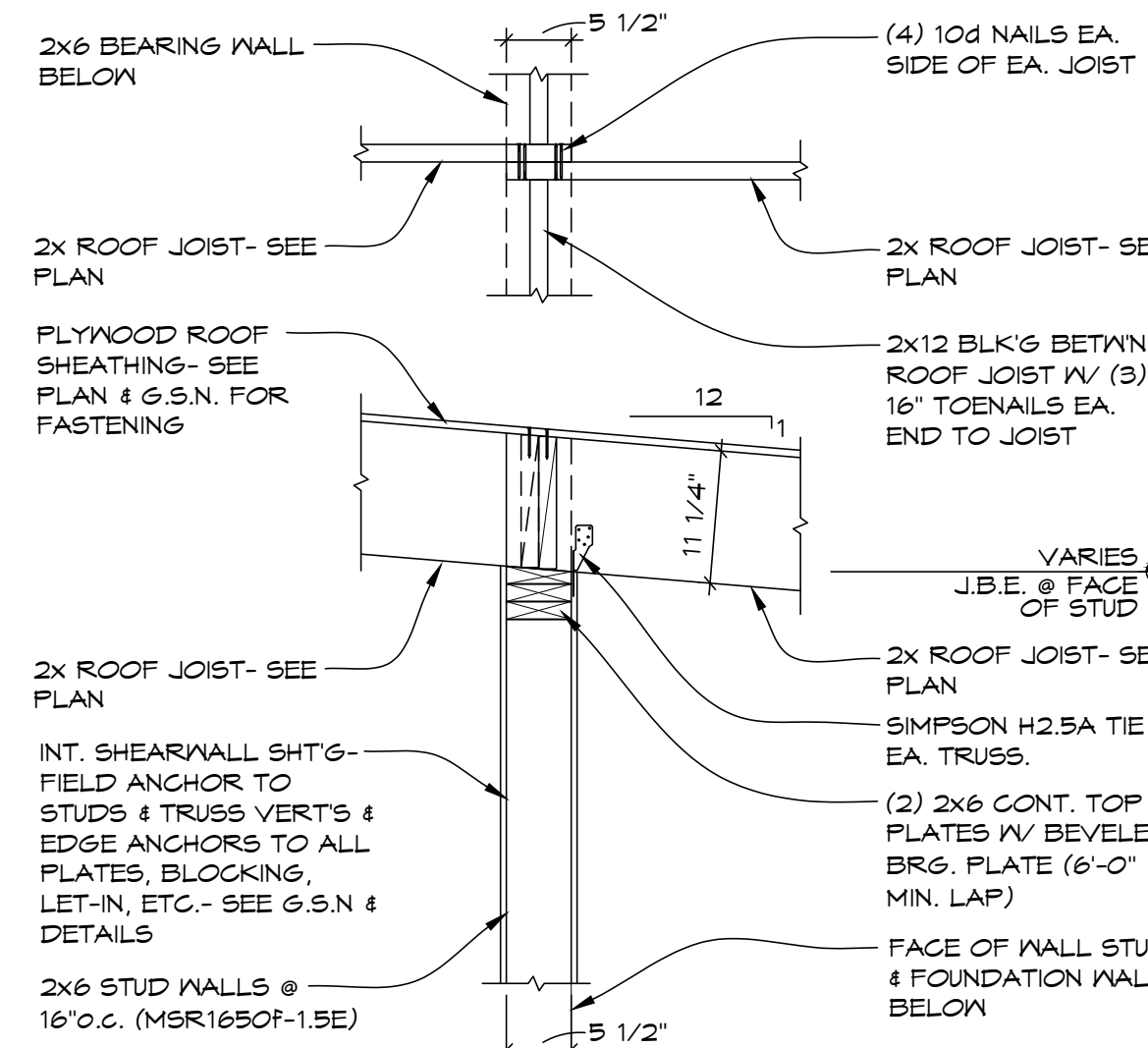
G TYPICAL FOOTING STEP DETAIL
53.2/ SCALE: NO SCALE





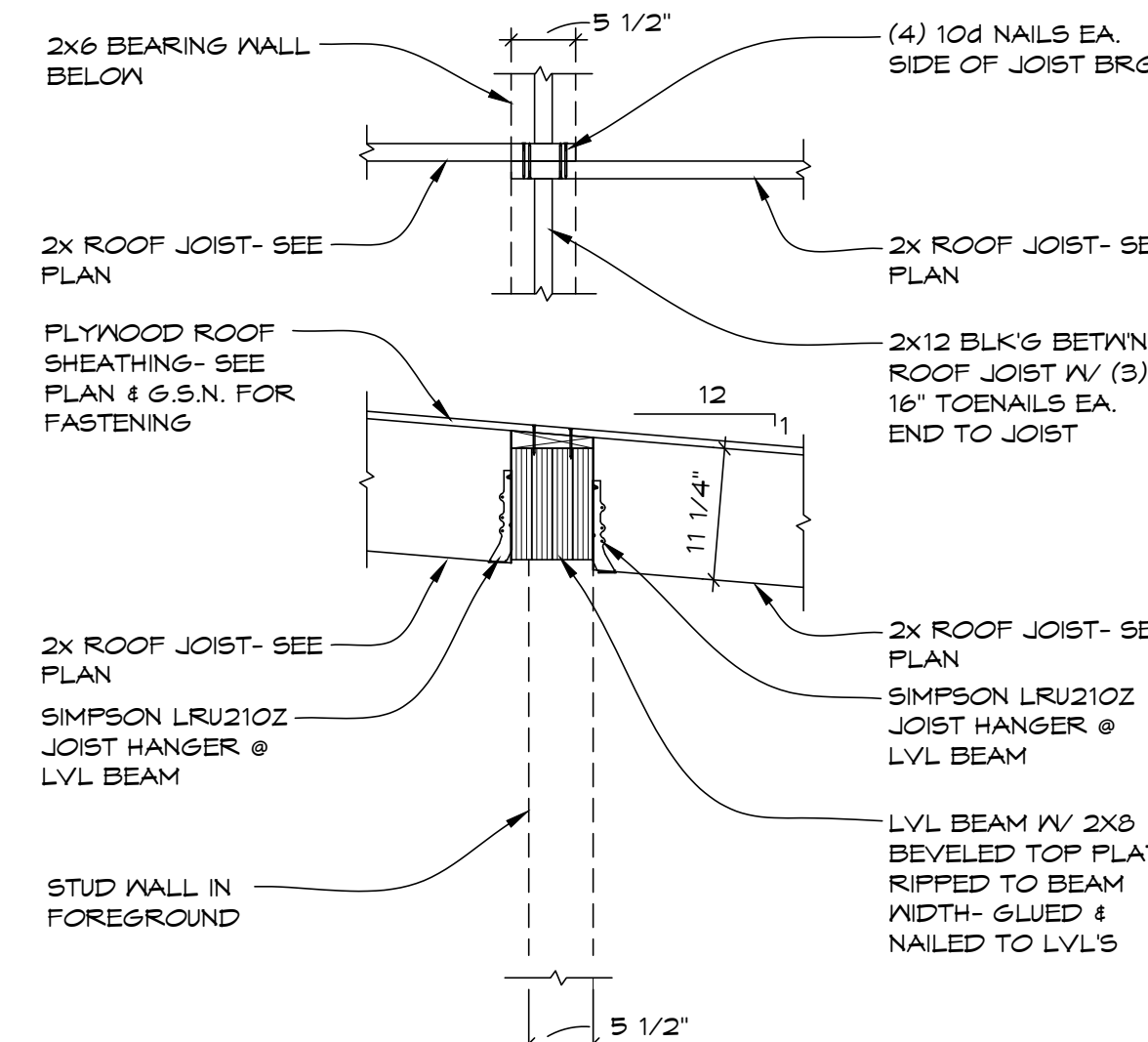
1 ROOF JST. BEARING DETAIL

(S4.1) SCALE: 3/4"=1'-0"



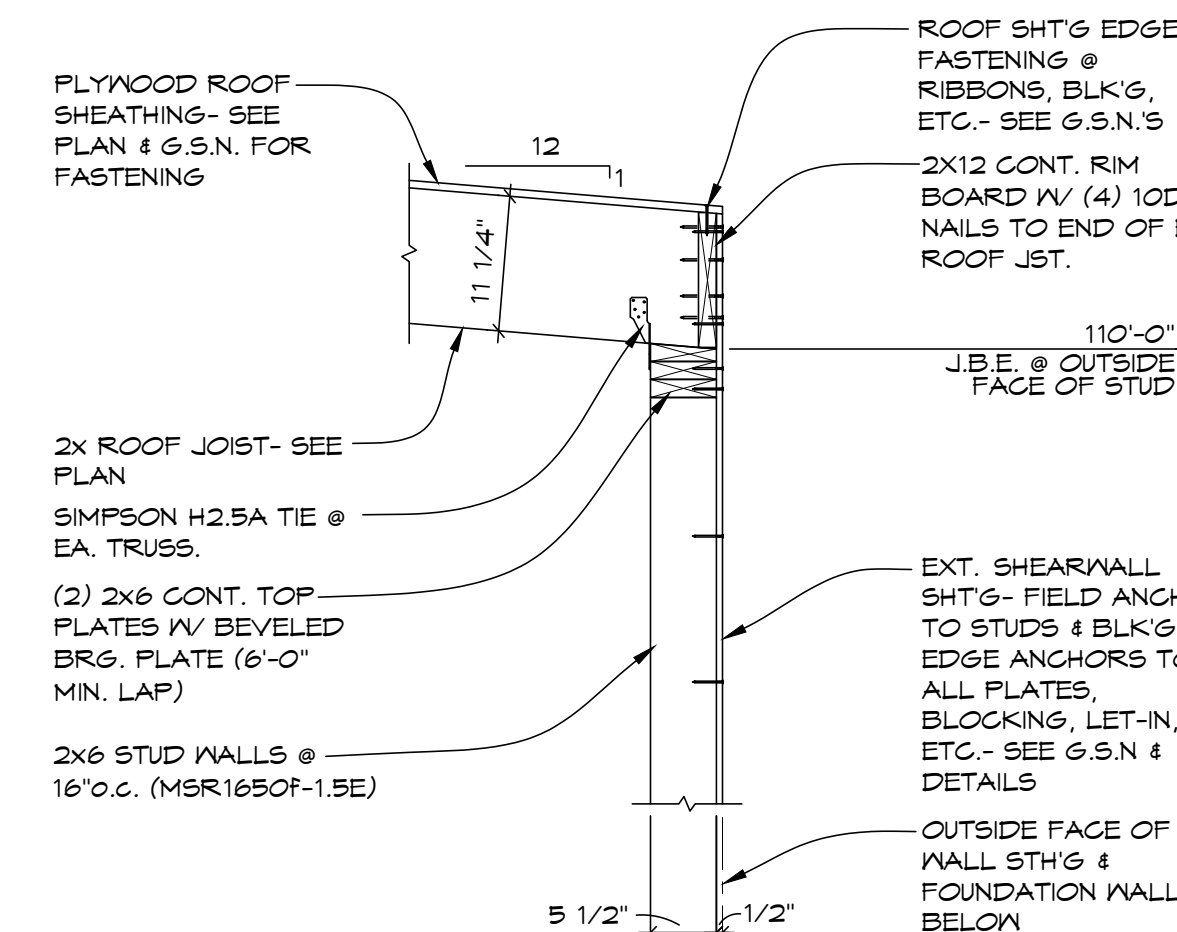
2 ROOF JST. BEARING DETAIL

(S4.1) SCALE: 3/4"=1'-0"



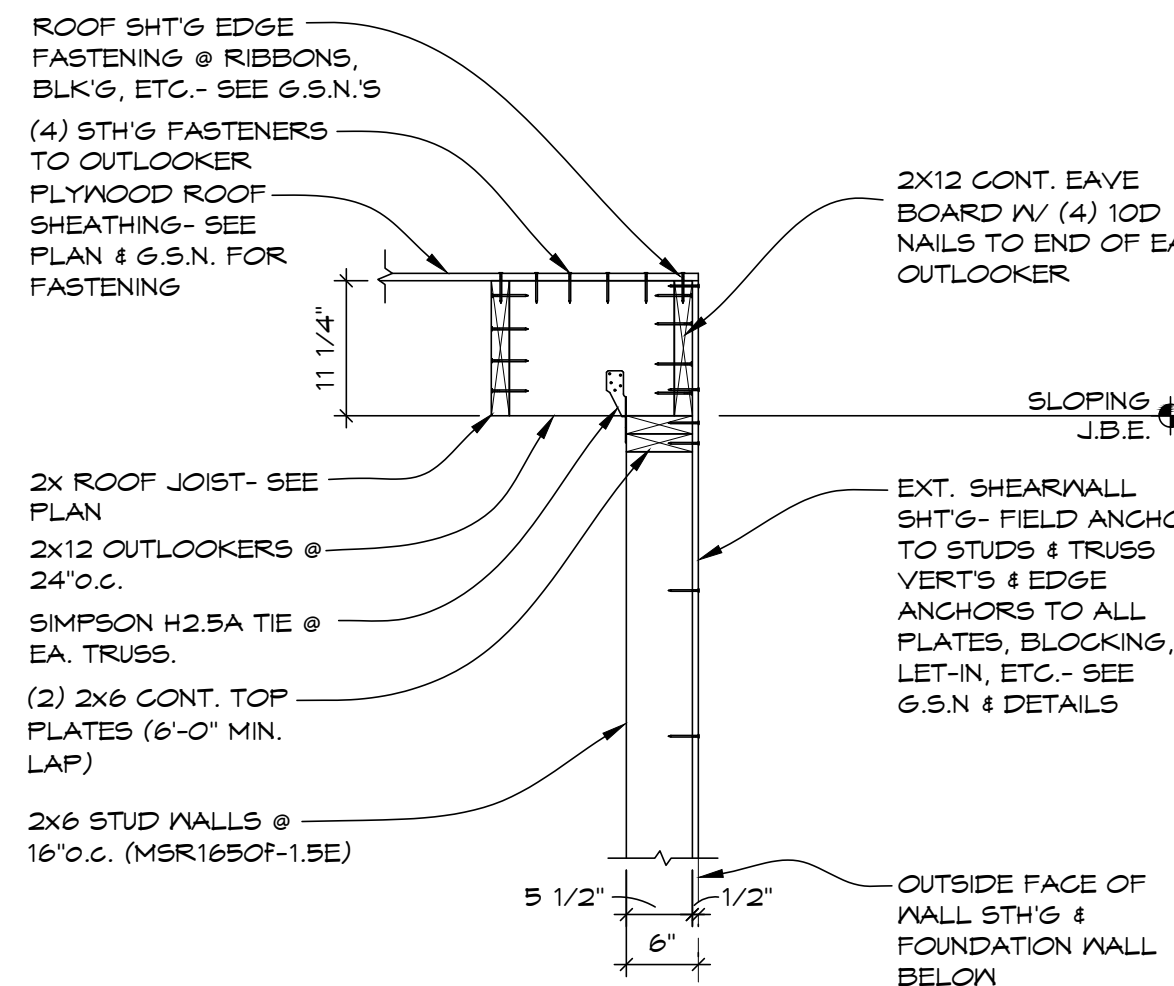
3 ROOF SUPPORT OFF LVL BEAM

(S4.1) SCALE: 3/4"=1'-0"



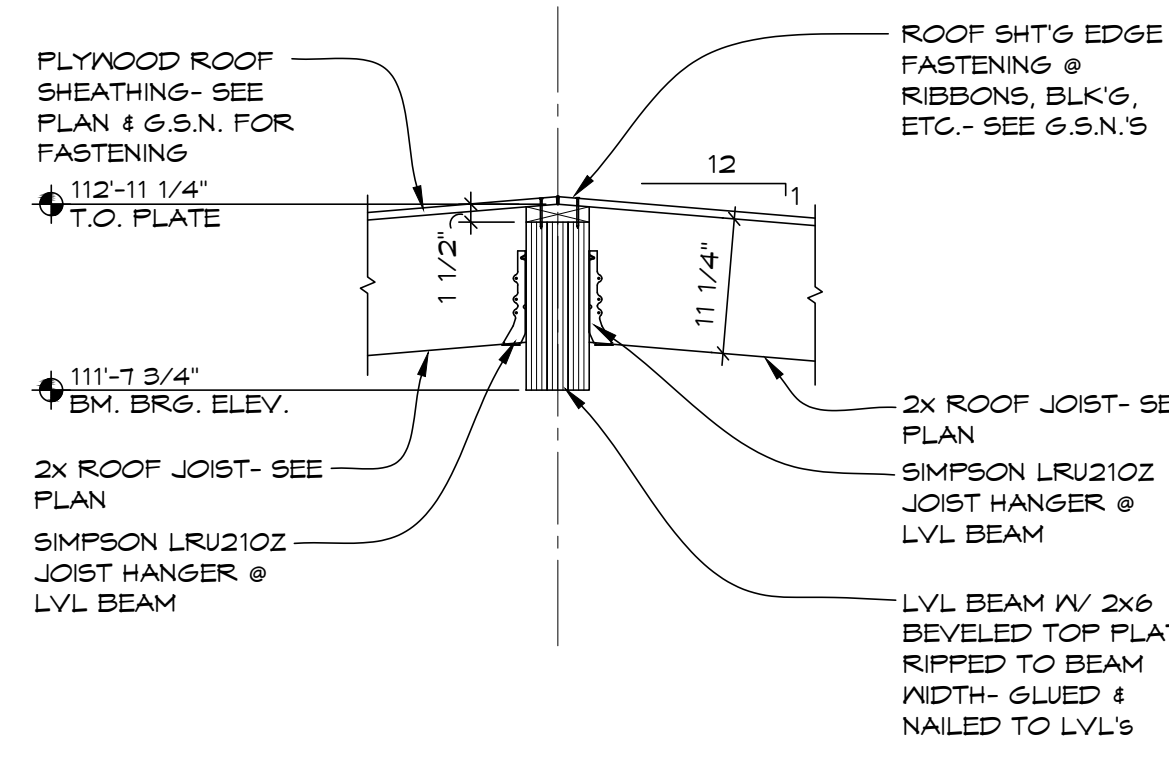
4 ROOF SUPPORT OFF LVL BEAM

(S4.1) SCALE: 3/4"=1'-0"



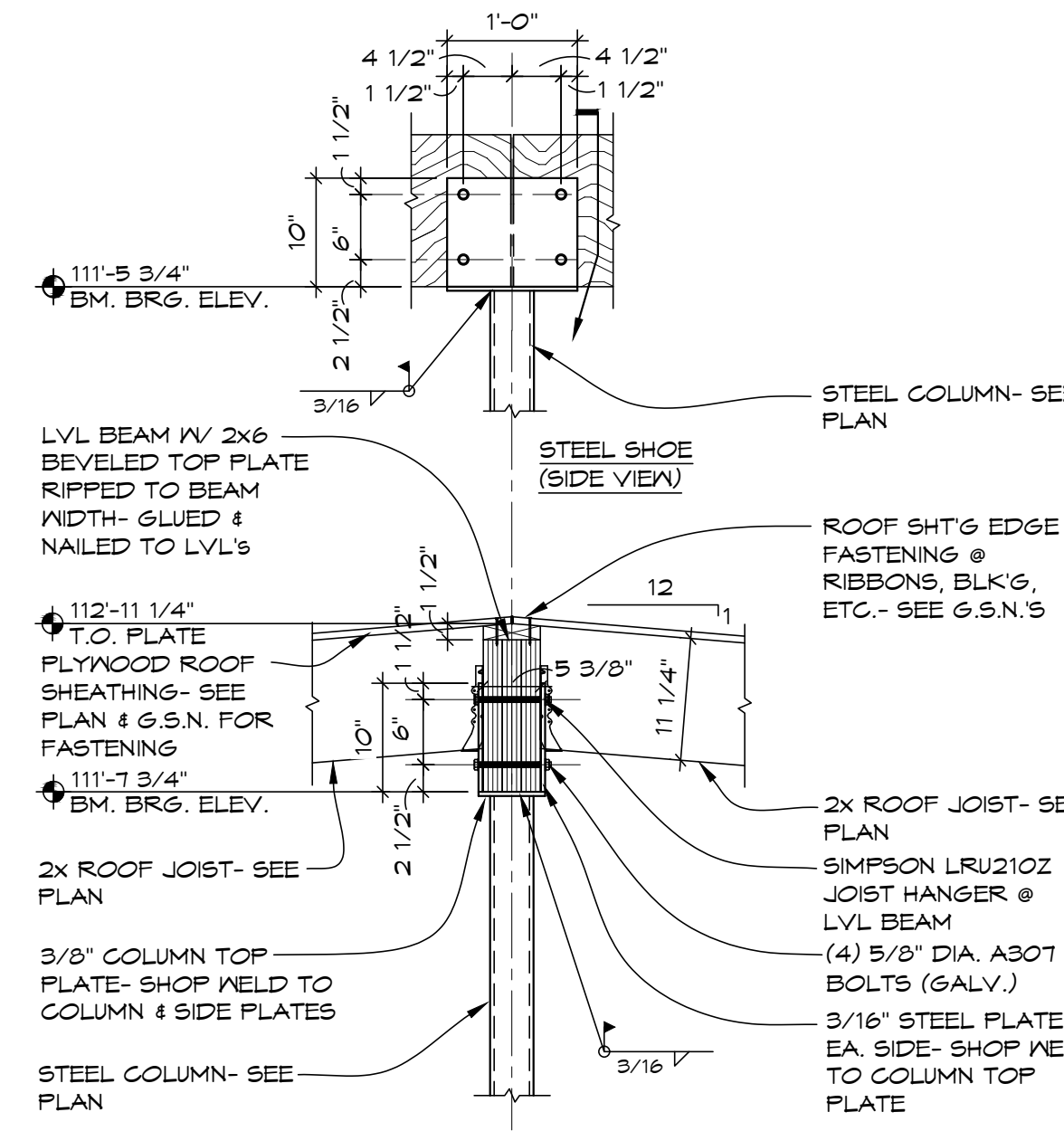
5 ROOF SUPPORT OFF LVL BEAM

(S4.1) SCALE: 3/4"=1'-0"



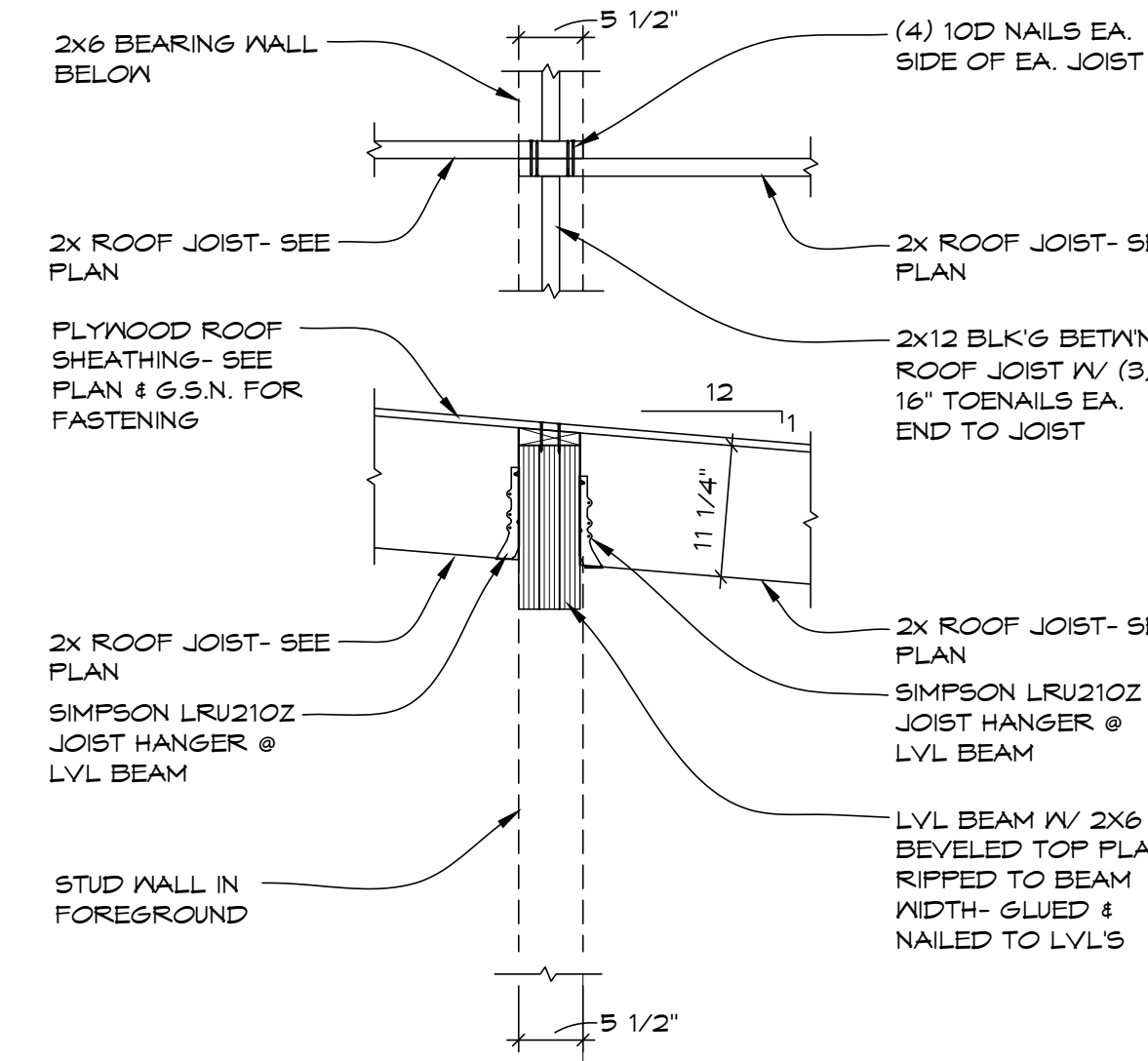
6 ROOF SUPPORT OFF LVL BEAM

(S4.1) SCALE: 3/4"=1'-0"



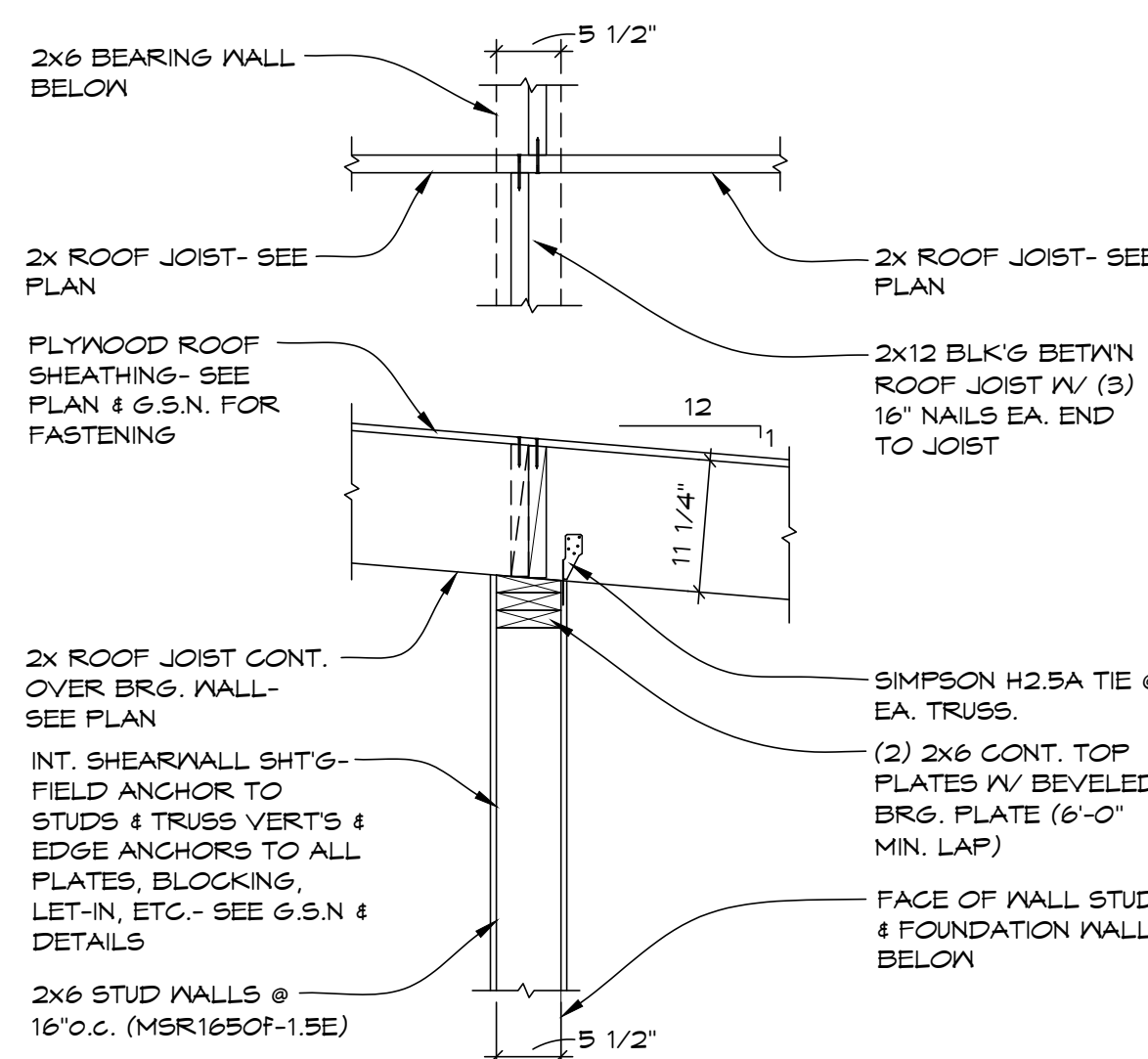
7 ROOF SUPPORT OFF LVL BEAM

(S4.1) SCALE: 3/4"=1'-0"



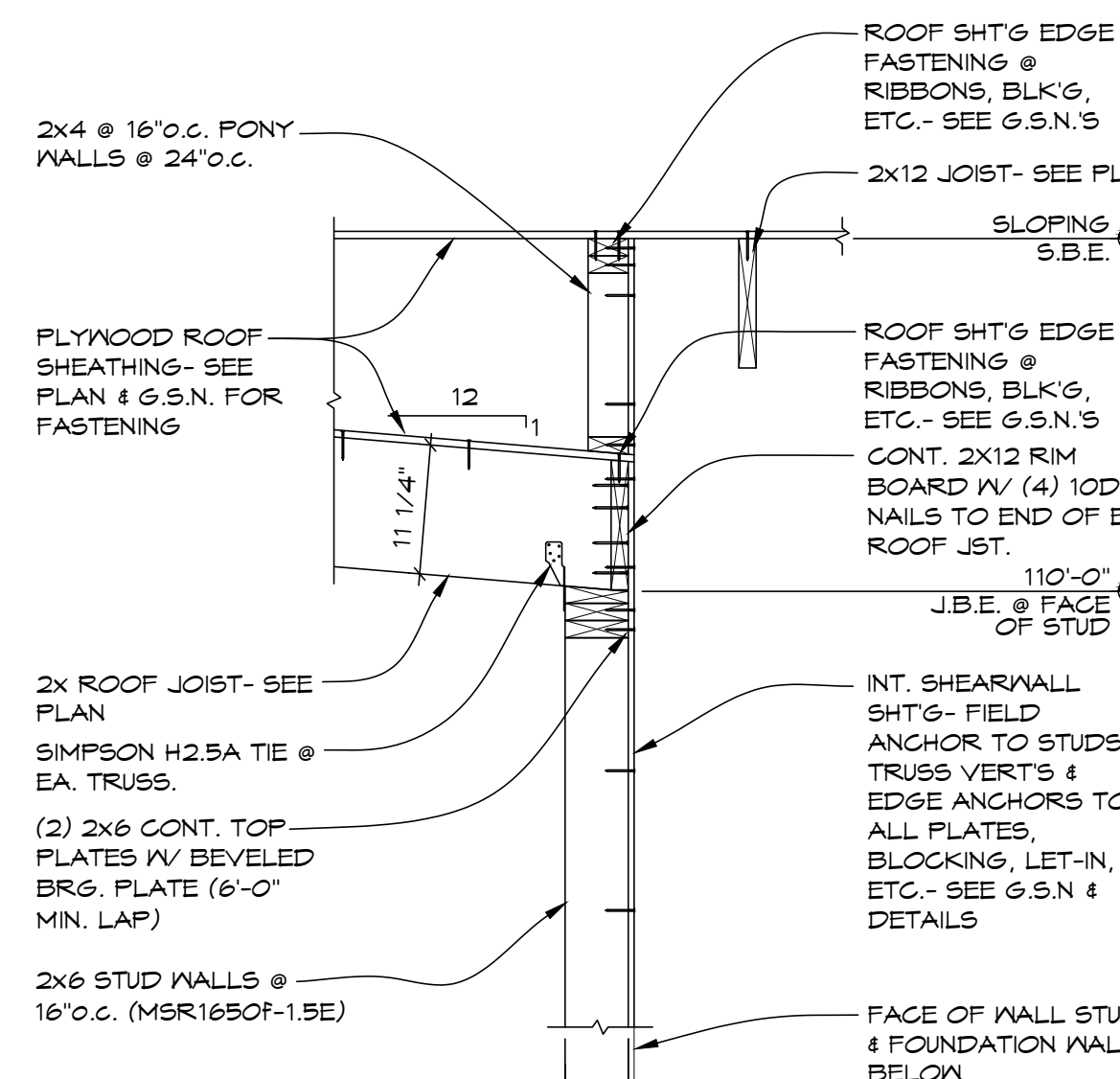
8 ROOF SUPPORT OFF LVL BEAM

(S4.1) SCALE: 3/4"=1'-0"



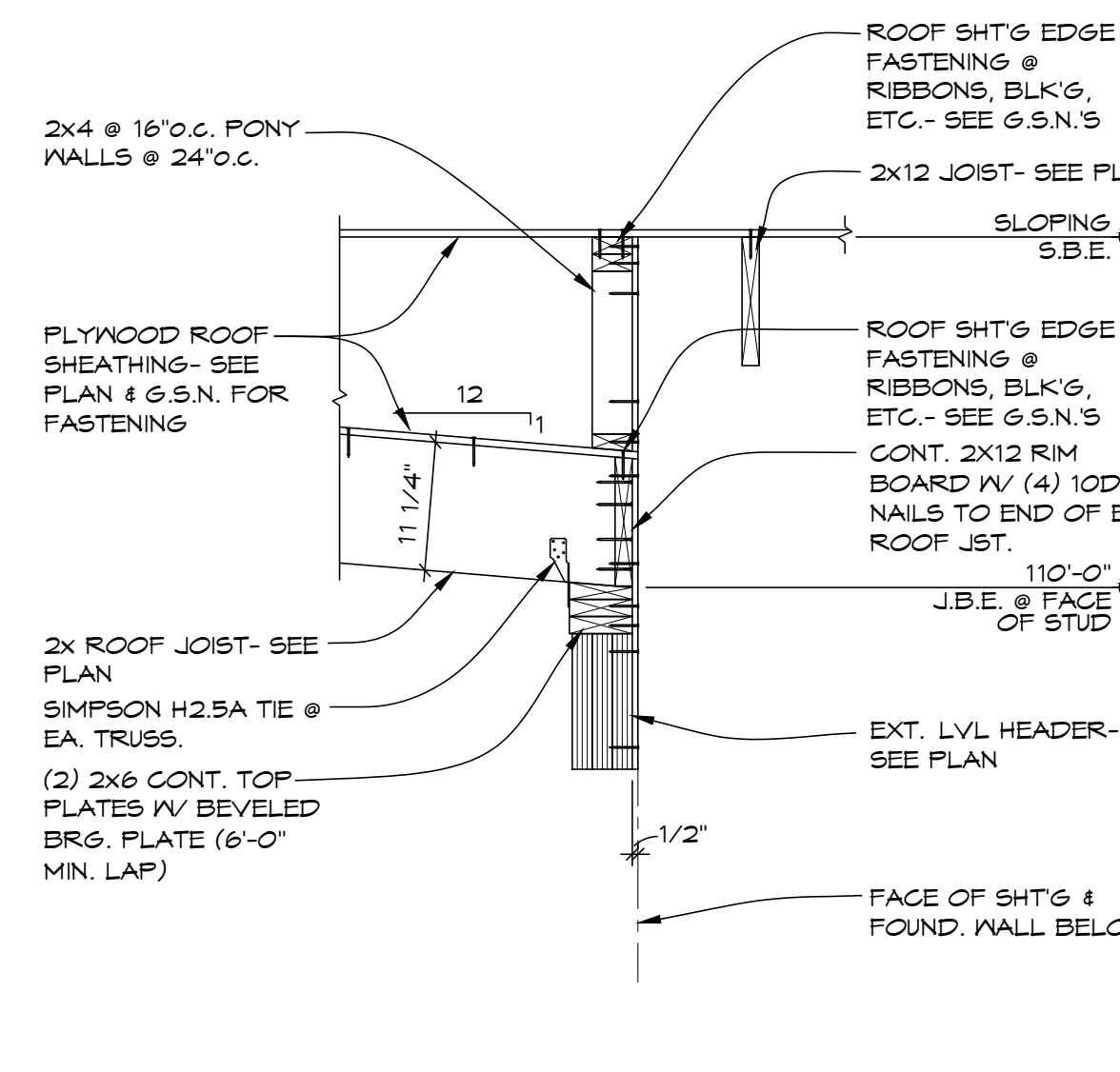
9 ROOF JST. BEARING DETAIL

(S4.1) SCALE: 3/4"=1'-0"



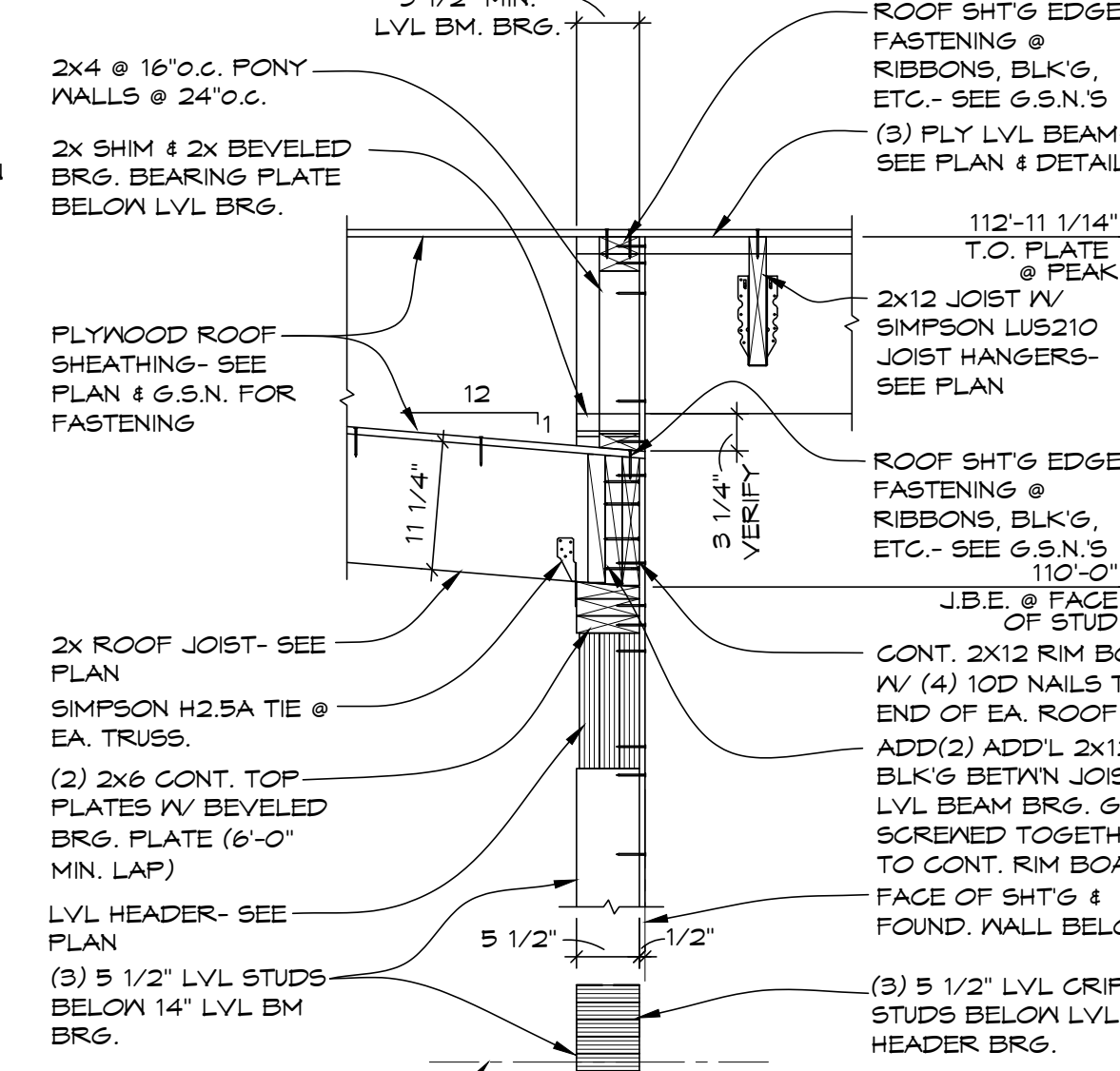
10 ROOF SUPPORT OFF LVL BEAM

(S4.1) SCALE: 3/4"=1'-0"



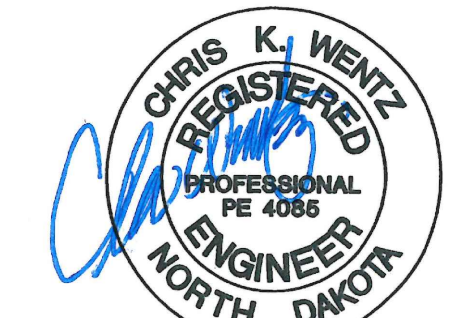
11 ROOF SUPPORT OFF LVL BEAM

(S4.1) SCALE: 3/4"=1'-0"



12 ROOF SUPPORT OFF LVL BEAM

(S4.1) SCALE: 3/4"=1'-0"



1000 E. GALLERY AVE. SUITE 2
BISMARCK, NORTH DAKOTA 58503
701.221.3286
WWW.CWSTRUCTURAL.NET

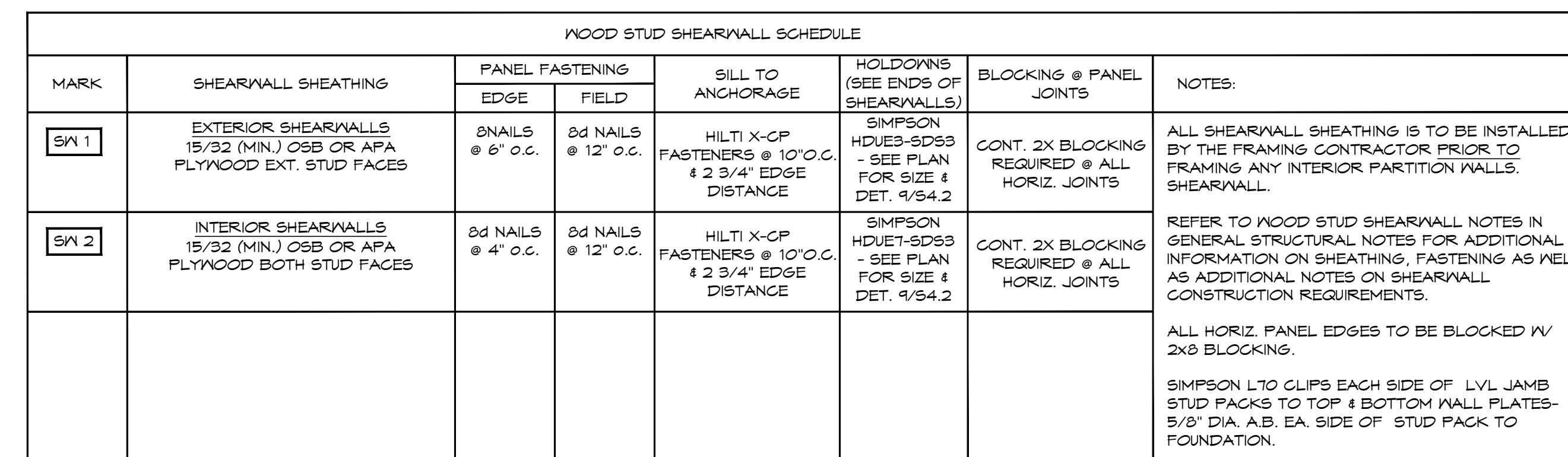
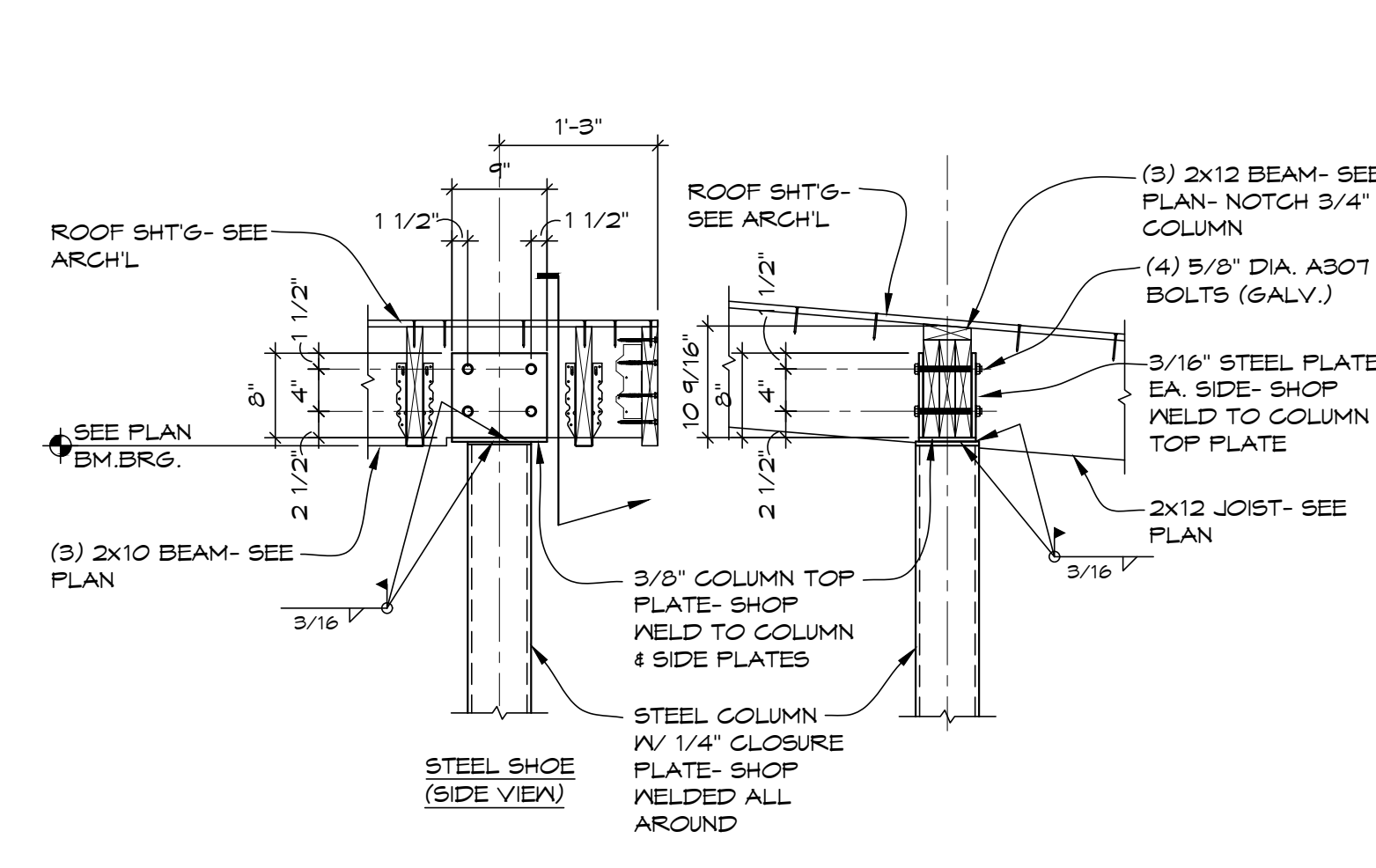
PROJECT NO. C2603B
DRAWN BY MDB
CHECKED BY CKW
REVISION
REVISION

JIRAN ARCHITECTS & PLANNERS P.C.
1431 INTERSTATE LOOP SUITE A BISMARCK, ND 58503
PHONE : 701-258-7771 FAX : 701-258-1672 E-MAIL: jpf@jiranpc.com

CHIPPEWA DOWNS GRANDSTAND
BELCOURT, NORTH DAKOTA

S 4.1

OF 9



8 TYPICAL WOOD STUD SHEARWALL FASTENING DETAIL/SCHEDULE
54.2 SCALE: 3/4"=1'-0"

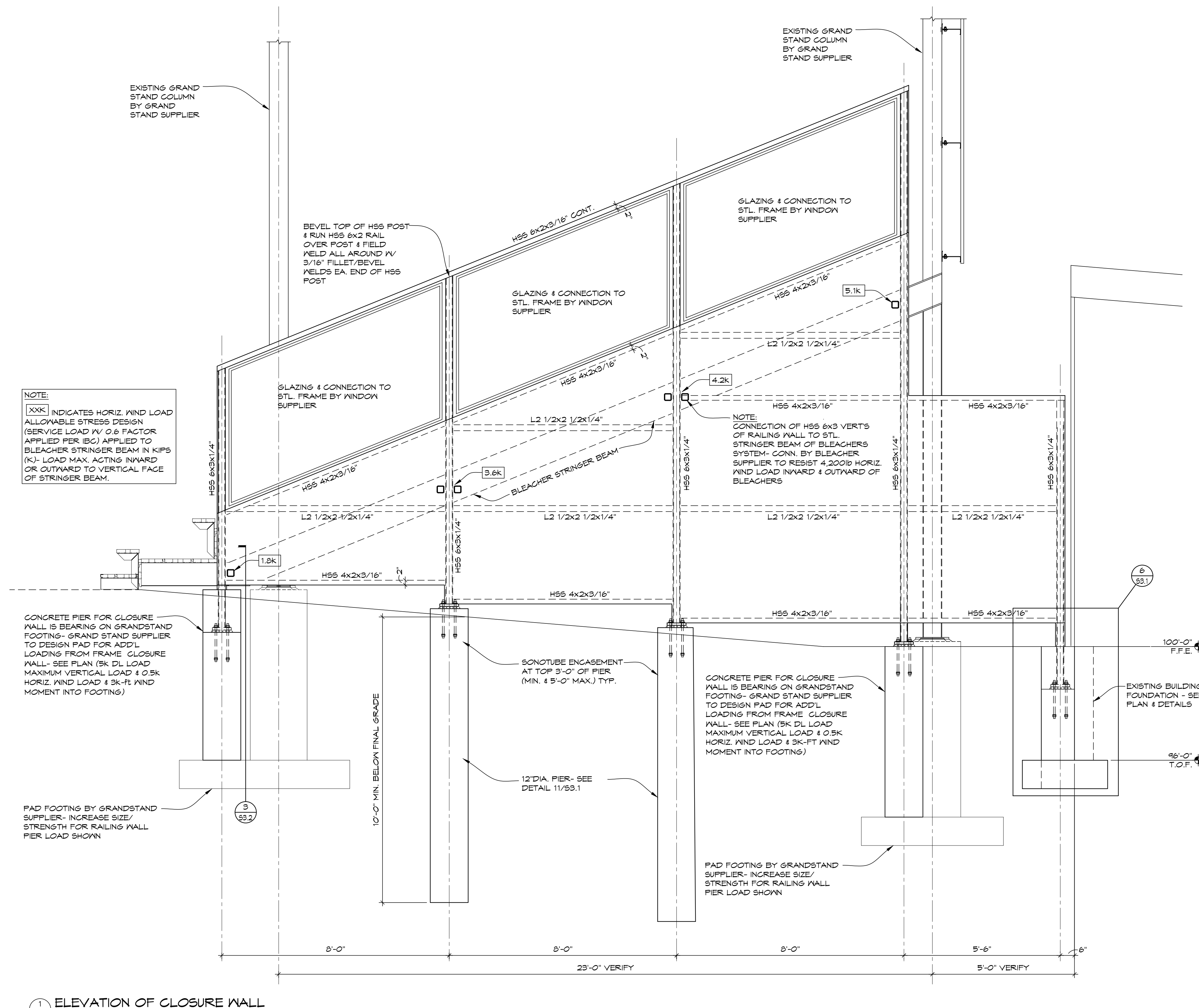
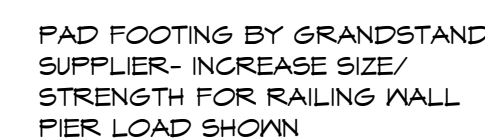
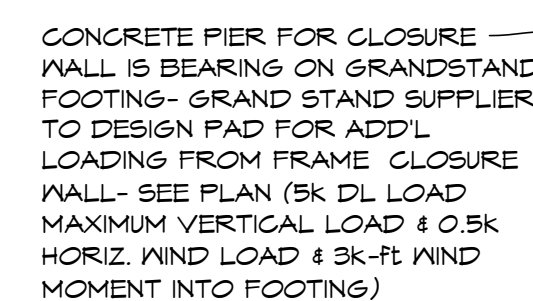


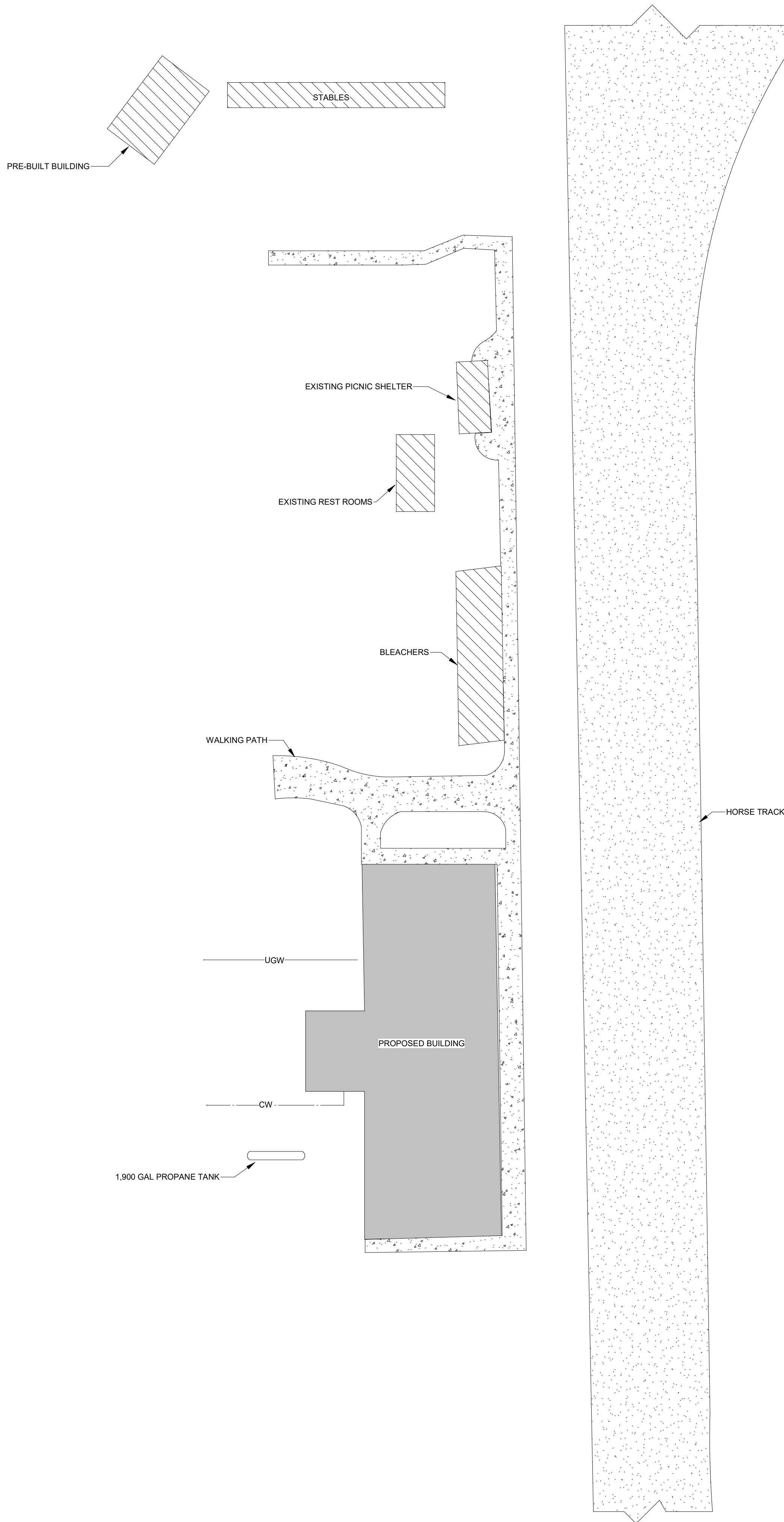
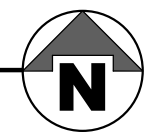


Diagram illustrating the required depth of a 2x4 LVL beam. The beam is shown with a 1" gap between joists. The required depth is specified as 5 1/2" TO 7 1/4" DEEP. The diagram also shows the beam depth and the distance between joists (S₁).

5 1/2" TO 7 1/4" DEEP
2x 4 LVL BEAMS

3 TYPICAL MULTI-PLY BEAM FASTENING REQUIREMENTS
SCALE: 3/4"=1'-0"





HVAC LEGEND	
	POSITIVE PRESSURE DUCT
	NEGATIVE PRESSURE DUCT
	MANUAL DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	COMB. SMOKE/FIRE DAMPER
	BACK DRAFT DAMPER
	ACCESS DOOR
	ELBOW WITH TURNING VANES
	HI-EFFICIENCY TAKEOFF (W/ VOLUME DAMPER)
	FLEXIBLE DUCT
	CONNECT TO EXISTING
	AIR TERMINAL TAG
	AIR TERMINAL MARK
	AIR TERMINAL CFM
	AIR TERMINAL SIZE

PIPING VALVE & ACCESSORY LEGEND	
	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PIPING LEGEND	
	ABOVEGROUND WASTE
	UNDERGROUND WASTE
	VENT
	DOMESTIC COLD WATER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER 140F
	DOMESTIC HOT WATER 140F
	DOMESTIC HOT WATER 120F
	RECIRC HOT WATER
	RECIRC HOT WATER
	CONDENSATE DRAIN
	PROPANE
	CONNECT TO EXISTING

PLUMBING FIXTURE CONNECTIONS			
	WASTE	VENT	SUPPLY
WATER CLOSET (FLUSH VALVE)	3"	2"	1"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (MULTISTATION)	2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
SERVICE/MOP SINKS	3"	1-1/2"	3/4"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"

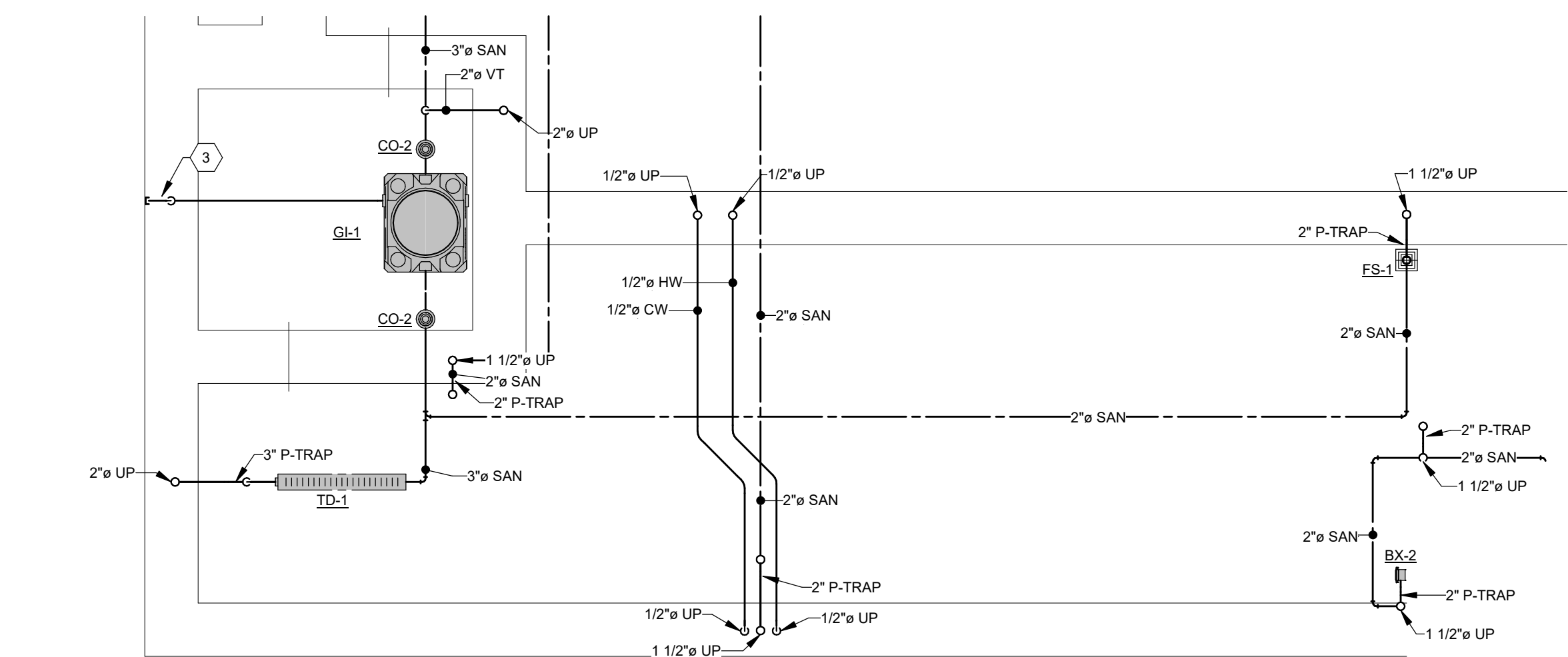
LINE TYPE LEGEND	
	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE

GENERAL NOTES	
A	PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE THE DRAWING PACKAGE IS ISSUED.
B	ARRANGE WITH AUTHORITIES AND UTILITY COMPANIES FOR PERMITS, FEES AND SERVICE CONNECTIONS. VERIFY LOCATIONS AND ARRANGEMENTS AND PAY ALL CHARGES, INCLUDING INSPECTIONS.
C	THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER CONTRACTORS ON THE PROJECT AND INSTALL MECHANICAL SYSTEMS IN A MANNER WHICH WILL CONFORM TO STRUCTURE, KEEP PASSAGEWAYS AND OPENINGS CLEAR, PRESERVE HEAD ROOM, CLEAR LIGHT FIXTURES AND NOT COVER UP JUNCTION BOXES.
D	INSTALL PIPING AND DUCTWORK TO PROVIDE THE MAXIMUM CLEAR HEIGHT UNDERNEATH UNLESS OTHERWISE NOTED.
E	THE ENTIRE SYSTEM AND ITS COMPONENT ITEMS SHALL OPERATE WITHOUT OBJECTIONABLE NOISE AND VIBRATION.
F	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR DRAINS, CEILING DIFFUSERS, GRILLES AND REGISTERS.
G	THIS CONTRACTOR SHALL FIELD VERIFY LOCATIONS FOR ALL DUCTWORK AND PIPING FOR THE INSTALLATION PRIOR TO FABRICATION.
H	THIS CONTRACTOR SHALL MAKE OFFSETS IN PIPING OR DUCTWORK TO AVOID INTERFERENCE WITH OTHER TRADES, AT NO ADDITIONAL COST TO THE OWNER, WHEN SO DIRECTED BY THE ARCHITECT/ENGINEER.
I	DUCT DIMENSIONS SHOWN ARE AIR STREAM SIZES (FREE AREA). SIZES DO NOT INCLUDE ALLOWANCE FOR DUCT INSULATION OR LINER.
J	PIPE ROUTING IS SHOWN WITH AN EXAGGERATED SPACING FOR CLARITY. ACTUAL PLACEMENT OF PIPING SHOULD BE DONE COLLECTIVELY AND IN SUCH A MANNER AS NOT TO CONFLICT WITH LOCATION SENSITIVE COMPONENTS SUCH AS LIGHT FIXTURES.
K	FLEXIBLE RUNOUTS TO CEILING DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED. MAXIMUM FLEX LENGTH SHALL BE 10'; PROVIDE HARD DUCT AS REQUIRED.
L	COORDINATE ALL SLAB PENETRATIONS AND SLEEVES PRIOR TO EACH CONCRETE POUR. PROVIDE SLEEVES AND INSERTS AS REQUIRED FOR PLACEMENT IN STRUCTURAL OR ARCHITECTURAL WORK.
M	EXTEND CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE WITH ACCESS COVERS INSTALLED FLUSH TO FINISHED SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH MIXTURE OF LINSEED OIL AND GRAPHITE. ENSURE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.
N	PLUMBING EQUIPMENT SHALL BE PROVIDED WITH SHUT-OFF VALVES AND UNIONS TO FACILITATE SERVICING.
O	PROVIDE SHOCK ARRESTORS ON ALL DOMESTIC COLD AND HOT WATER PIPING SERVING QUICK ACTING VALVES SUCH AS FLUSH VALVES AND AUTOMATIC SENSOR FAUCETS.
P	INSTALL ALL SUPPLY, RETURN, AND EXHAUST AIR GRILLS/DIFFUSERS A MINIMUM OF 3' FROM ALL SMOKE/HEAT DETECTION DEVICES
Q	THIS CONTRACTOR IS TO NOTIFY THE OWNERS STAFF OF ANY WORK THAT MAY INVOLVE TEMPORARILY DISABLING OF THE FIRE ALARM SYSTEM AT LEAST 1 WEEK PRIOR TO THE WORK OCCURRING.

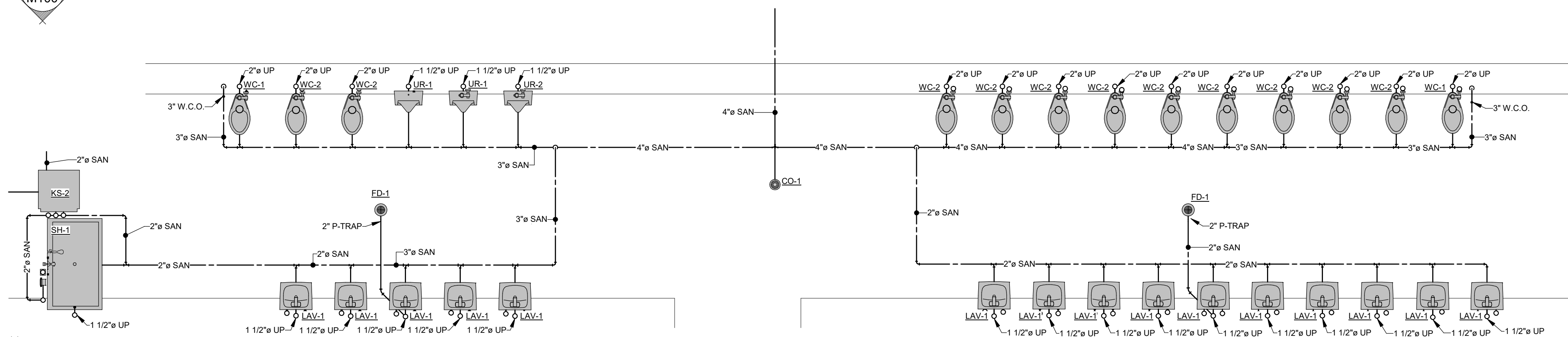
ABBREVIATIONS				
1	A/C	AIR CONDITIONING	HTG	HEATING
2	AD	ACCESS DOOR	HVAC	HEATING, VENTILATION, A/C
3	AFC	ABOVE FINISHED CEILING	INSUL	INSULATION
4	AFF	ABOVE FINISHED FLOOR	MAU	MAKE-UP AIR UNIT
5	AFG	ABOVE FINISHED GRADE	MC	MECHANICAL CONTRACTOR
6	AH, AHU	AIR HANDLING UNIT	MD	MOTORIZED DAMPER
7	ATC	AUTOMATIC TEMPERATURE CONTROLS	MECH	MECHANICAL
8	BDD	BACK DRAFT DAMPER	MFR	MANUFACTURER
9	BFF	BELOW FINISHED FLOOR	MH	MANHOLE
10	BLDG	BUILDING	MTD	MOUNTED
11	CA	COMBUSTION AIR	N/A	NOT APPLICABLE
12	CLG	CEILING	N/C	NORMALLY CLOSED
13	CO	CLEANOUT	N/O	NORMALLY OPENED
14	COND	CONDENSATE DRAIN	NEC	NATIONAL ELECTRIC CODE
15	DB	DUCT BARRIER	NTS	NOT TO SCALE
16	DN	DOWN	OBD	OPPOSED BLADE DAMPER
17	DWG	DRAWING	PNL	PANEL
18	EA	EACH	PRV	PRESSURE REDUCING VALVE
19	EC	ELECTRICAL CONTRACTOR	RA	RETURN AIR
20	ELEC	ELECTRICAL	RD	ROOF DRAIN
21	EQUIP	EQUIPMENT	REQ'D	REQUIRED
22	EW	ELECTRIC WATER COOLER	SA	SUPPLY AIR
23	FA	FRESH AIR	SAN	SANITARY
24	FBO	FURNISHED BY OTHERS	SFD	SMOKE/FIRE DAMPER
25	FCO	FLOOR CLEAN OUT	SPEC	SPECIFICATIONS
26	FD	FIRE DAMPER	TYP	TYPICAL
27	FD	FLOOR DRAIN	UG	UNDERGROUND
28	FDC	FIRE DEPARTMENT CONNECTION	VD	VOLUME DAMPER
29	FPC	FIRE PROTECTION CONTRACTOR	VT	VENT
30	FPH	FREEZE-PROOF HYDRANT	VTR	VENT THROUGH ROOF
31	FPM	FEET PER MINUTE	W/	WITH
32	FSC, FSEC	FOOD SERVICES EQUIPMENT...	W/O	WITHOUT
33	GA	GAUGE	WCO	WALL CLEANOUT
34	GC	GENERAL CONTRACTOR	WFC	WELL FIELD CONTRACTOR
35	GRD	GRILLES, REGISTERS, DIFFUSERS	WVT	WET VENT

ND STATE BUILDING CODES	
(IBC)	2024 INTERNATIONAL BUILDING CODE
(IRC)	2024 INTERNATIONAL RESIDENTIAL CODE
(IMC)	2024 INTERNATIONAL MECHANICAL CODE
(IFGC)	2024 INTERNATIONAL FUEL GAS CODE
(IECC)	2024 INTERNATIONAL ENERGY CONSERVATION CODE
(IEBC)	2024 INTERNATIONAL EXISTING BUILDING CODE
(UPC)	2018 NORTH DAKOTA PLUMBING CODE

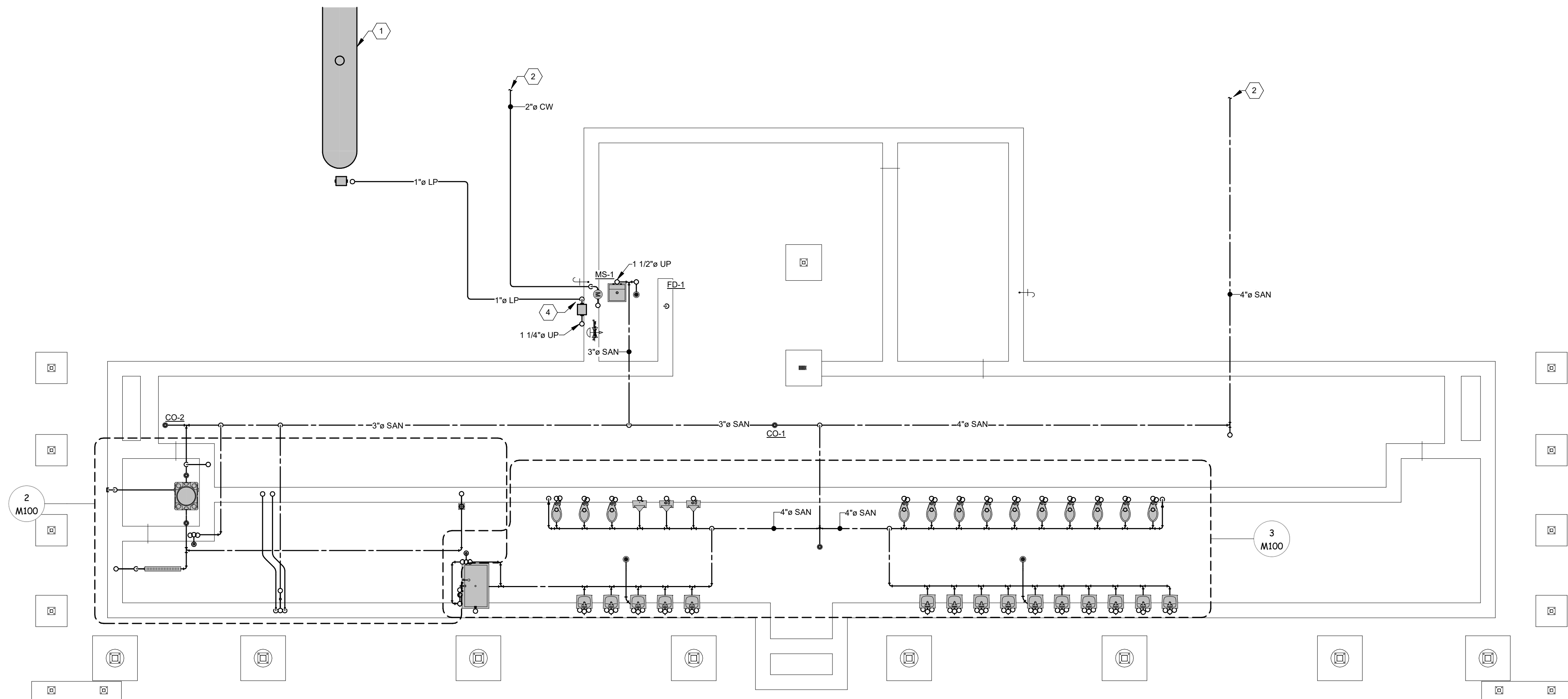
PROJECT DESIGN CONDITIONS BELCOURT, NORTH DAKOTA				
	SUMMER			WINTER
	DB	WB	DEW PT.	DB
OUTDOOR	91°F	69°F	N/A	-20°F
INDOOR	75°F	N/A	55°F	72°F



2 ENLARGED UNDERGROUND KITCHEN PLUMBING PLAN



3 ENLARGED UNDERGROUND RESTROOMS PLUMBING PLAN



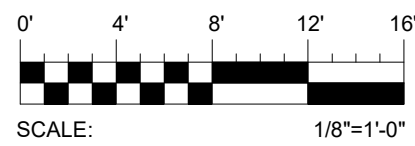
1 UNDERGROUND PLUMBING PLAN

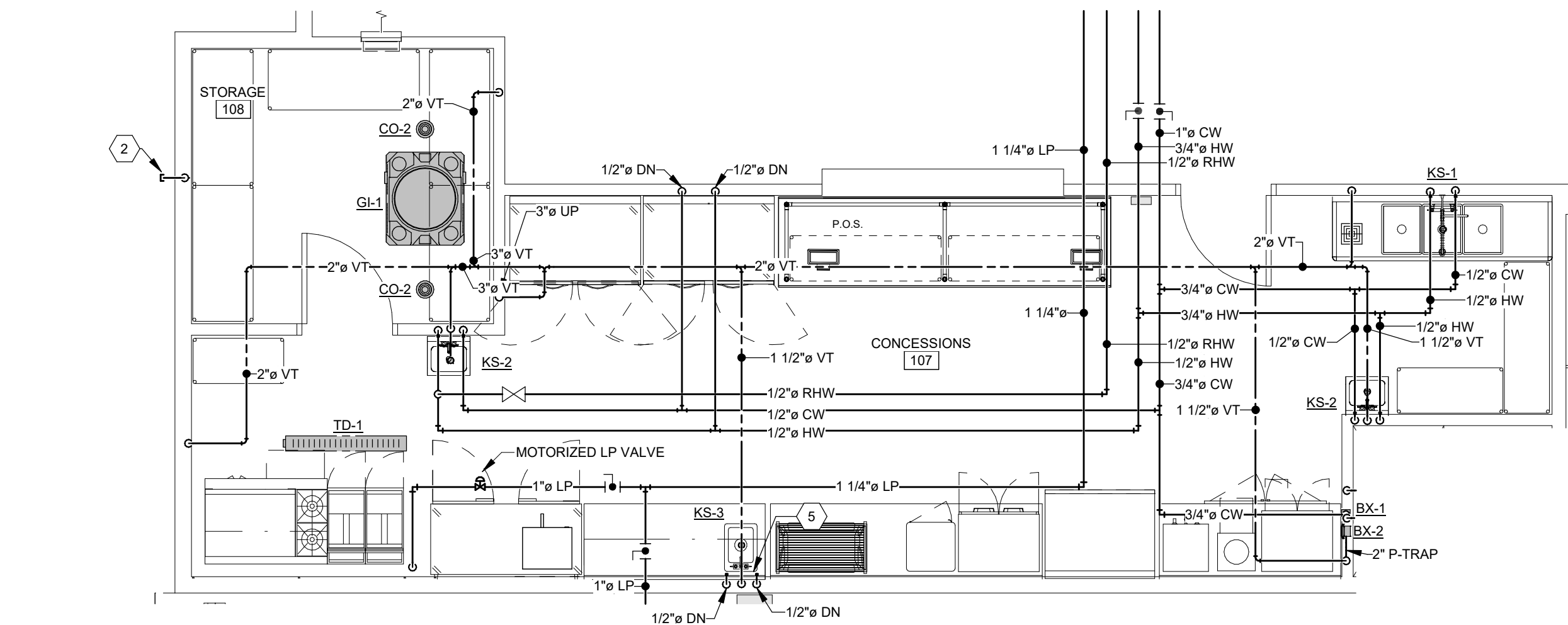
PIPING VALVE & ACCESSORY LEGEND	
	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PIPING LEGEND	
	ABOVEGROUND WASTE
	UNDERGROUND WASTE
	VENT
	DOMESTIC COLD WATER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER 140F
	DOMESTIC HOT WATER 140F
	DOMESTIC HOT WATER 120F
	RECIRC HOT WATER
	RECIRC HOT WATER
	CONDENSATE DRAIN
	PROPANE
	CONNECT TO EXISTING

PLUMBING FIXTURE CONNECTIONS			
	WASTE	VENT	SUPPLY
WATER CLOSET (FLUSH VALVE)	3"	2"	1"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (MULTISTATION)	2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
SERVICE/MOP SINKS	3"	1-1/2"	3/4"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"

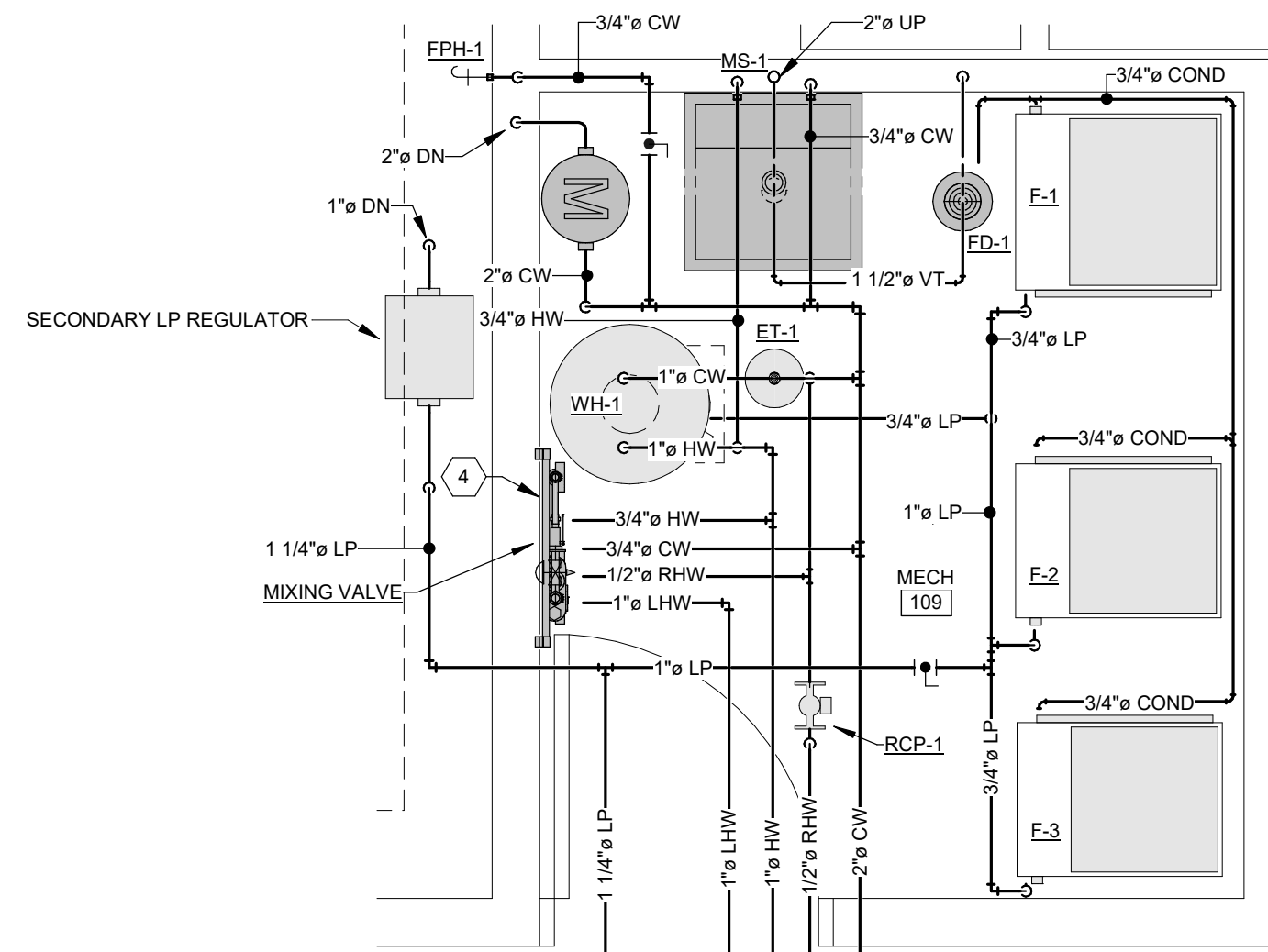
KEYNOTE LEGEND	
1	PROPANE TANK SET AND PIPED BY MECHANICAL CONTRACTOR. PROVIDE 1,900 GAL. PROPANE TANK ON A CONCRETE PAD WITH VAPORIZER.
2	M.C. TO CONNECT 5 FT OUTSIDE OF BUILDING.
3	3"Ø GREASE INTERCEPTOR PP3 PUMP OUT KIT.
4	PIPE UP TO SECOND PROPANE REGULATOR.





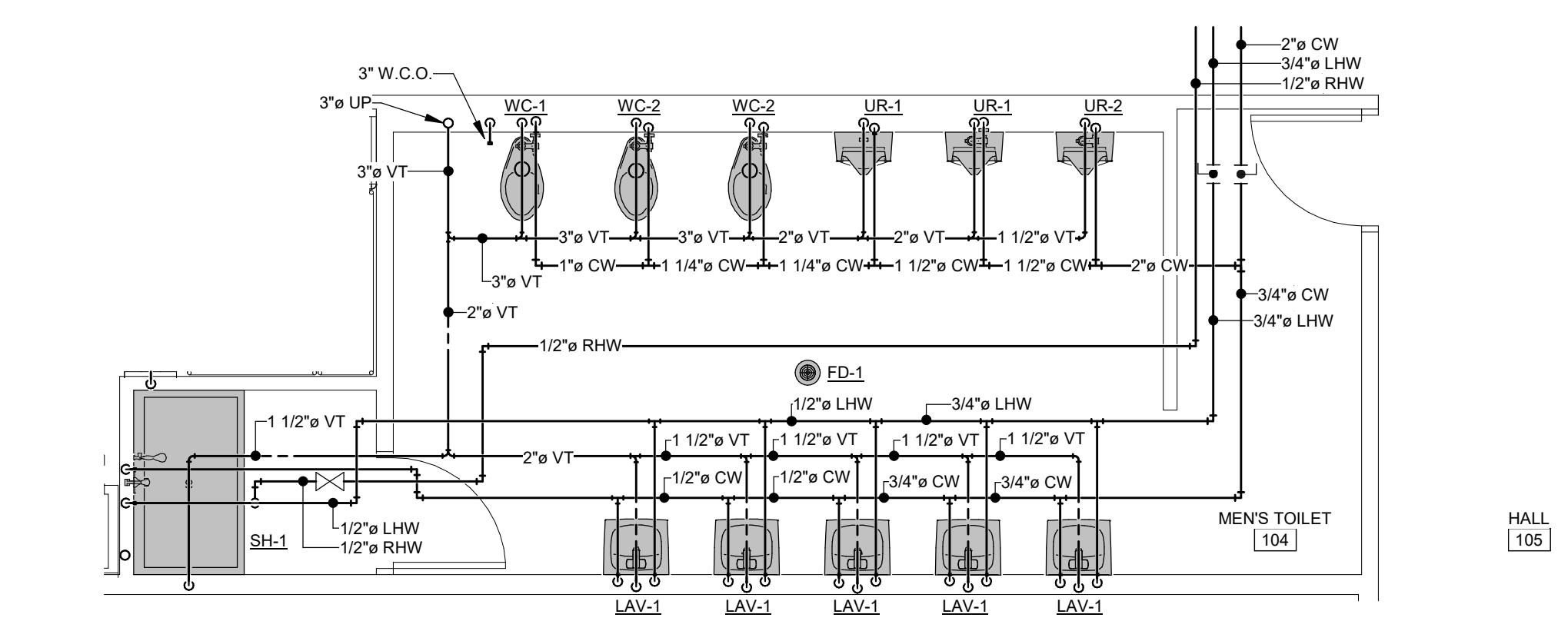
2
M101
1/4" = 1'-0"

ENLARGED KITCHEN PLUMBING PLAN



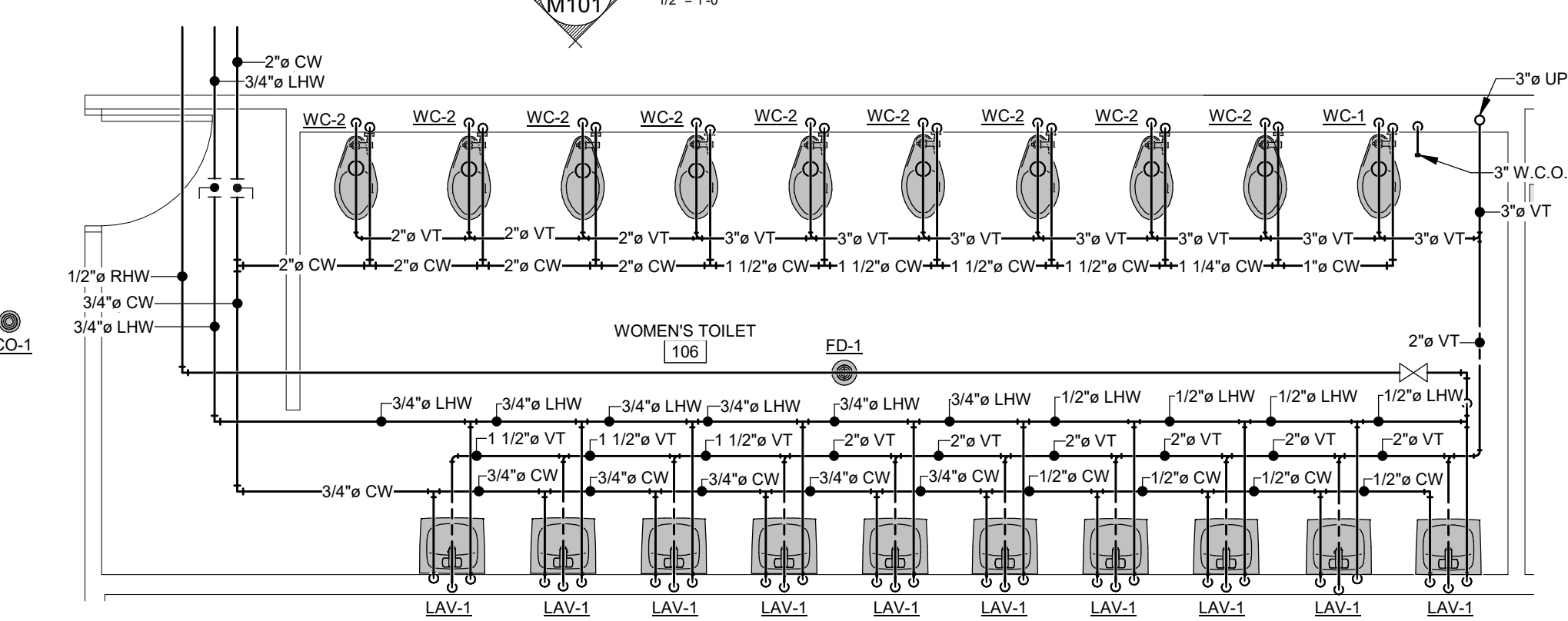
4
M101
1/2" = 1'-0"

ENLARGED MECH ROOM PLUMBING PLAN



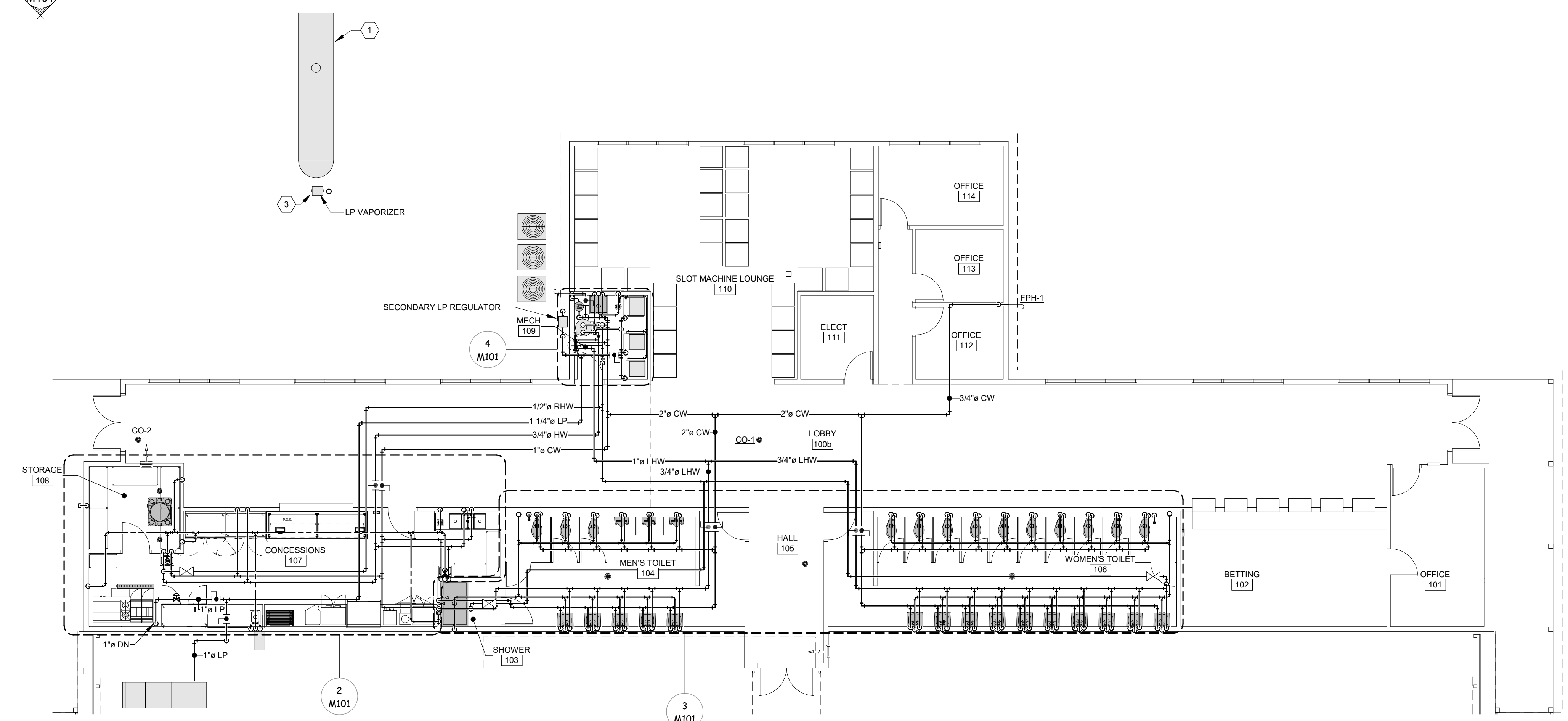
3
M101
1/4" = 1'-0"

ENLARGED RESTROOMS PLUMBING PLAN



4
M101
1/2" = 1'-0"

ENLARGED MECH ROOM PLUMBING PLAN



1
M101
1/8" = 1'-0"

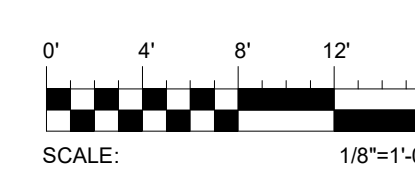
PLUMBING PLAN

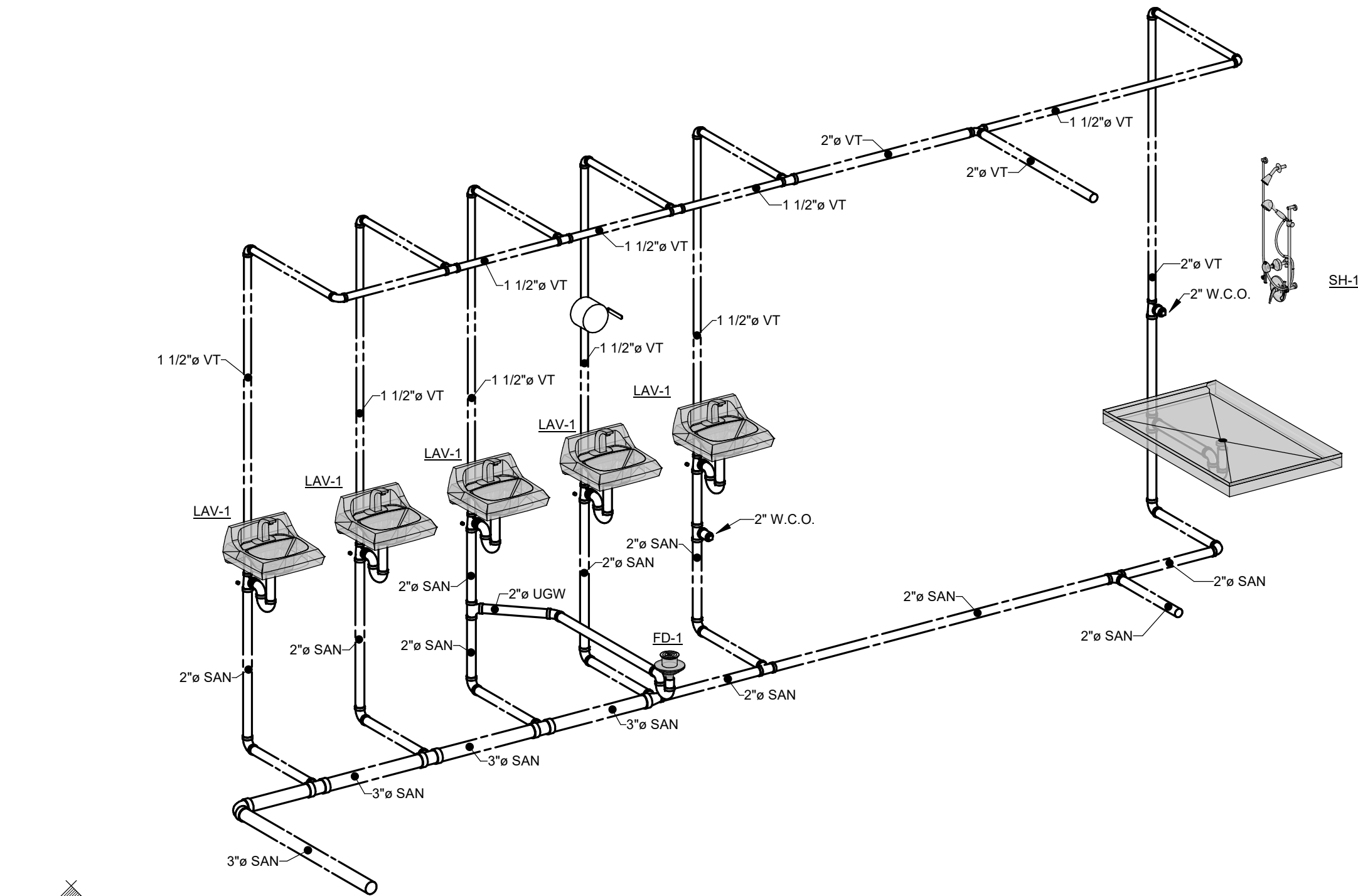
PIPING VALVE & ACCESSORY LEGEND	
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PIPING LEGEND	
	ABOVEGROUND WASTE
	UNDERGROUND WASTE
	VENT
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER 140F
	DOMESTIC HOT WATER 120F
	RECIRC HOT WATER
	CONDENSATE DRAIN
	PROPANE
	CONNECT TO EXISTING

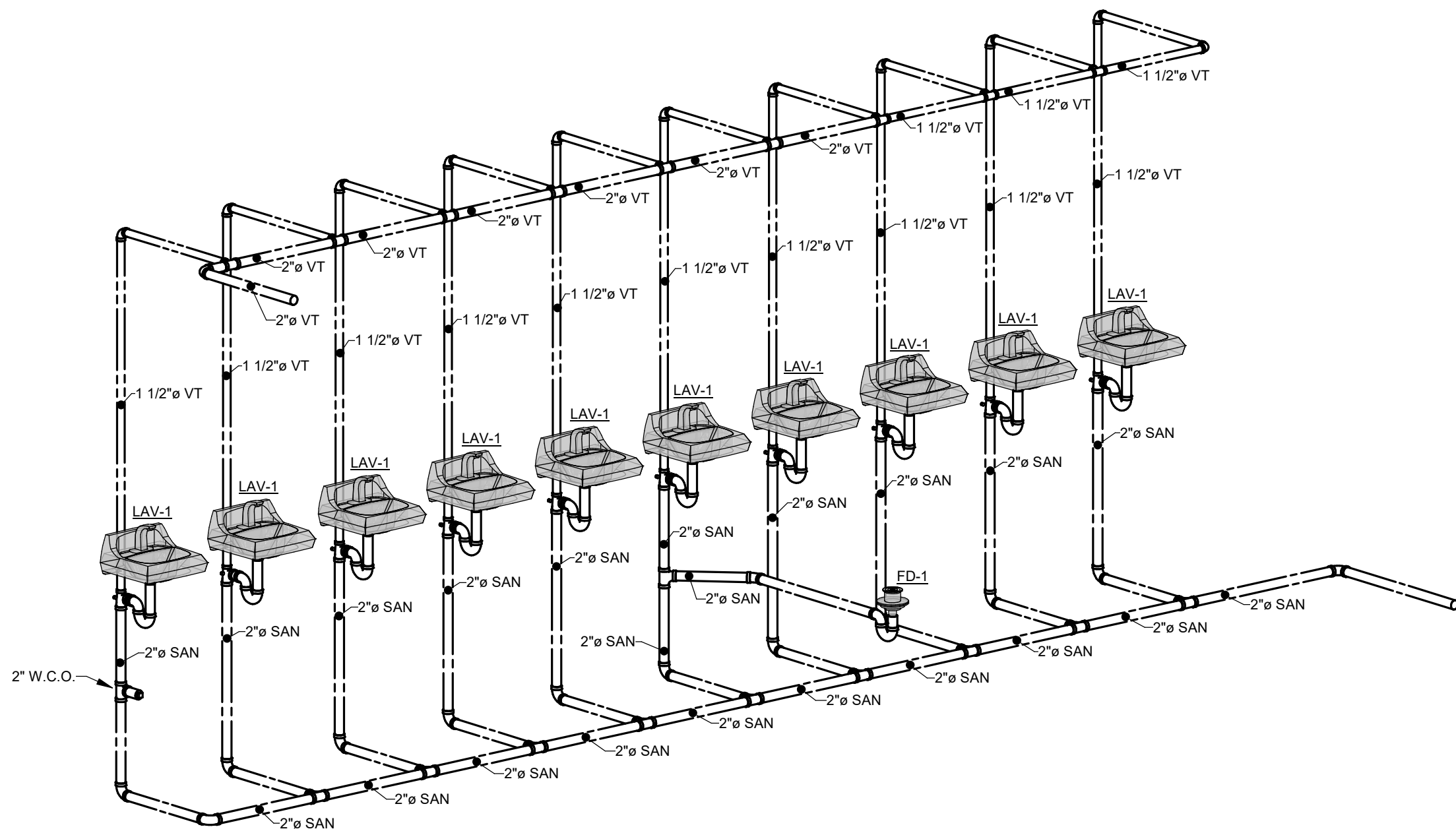
PLUMBING FIXTURE CONNECTIONS			
	WASTE	VENT	SUPPLY
WATER CLOSET (FLUSH VALVE)	3"	2"	1"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (MULTISTATION)	2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
SERVICE/MOP SINKS	3"	1-1/2"	3/4"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"

KEYNOTE LEGEND	
1	PROPANE TANK SET AND PIPED BY MECHANICAL CONTRACTOR. PROVIDE 1,900 GAL. PROPANE TANK ON A CONCRETE PAD WITH VAPORIZER.
2	3"Ø GREASE INTERCEPTOR PP3 PUMP OUT KIT.
3	PROVIDE VAPORIZER EQUIVALENT TO ALGAS-SDI MODEL TX25, 3 KW, 208/1/60, 12.5 GAL/H VAPORIZATION CAPABILITY. PROVIDE ECONOMY OPERATION VALVE TO ACTIVATE VAPORIZER BASED ON TANK PRESSURE.
4	MASTER MIXING VALVE TO BE OR EQUIVALENT TO WATTS INTELLI-STATION 2 MODEL IS2075VL.
5	INSTALL WATER AND WASTE PIPING IN ROOM, NOT IN EXTERIOR WALL. ROUTE WATER PIPING UP THROUGH FLOOR NEXT TO WALL UNDER COUNTER.

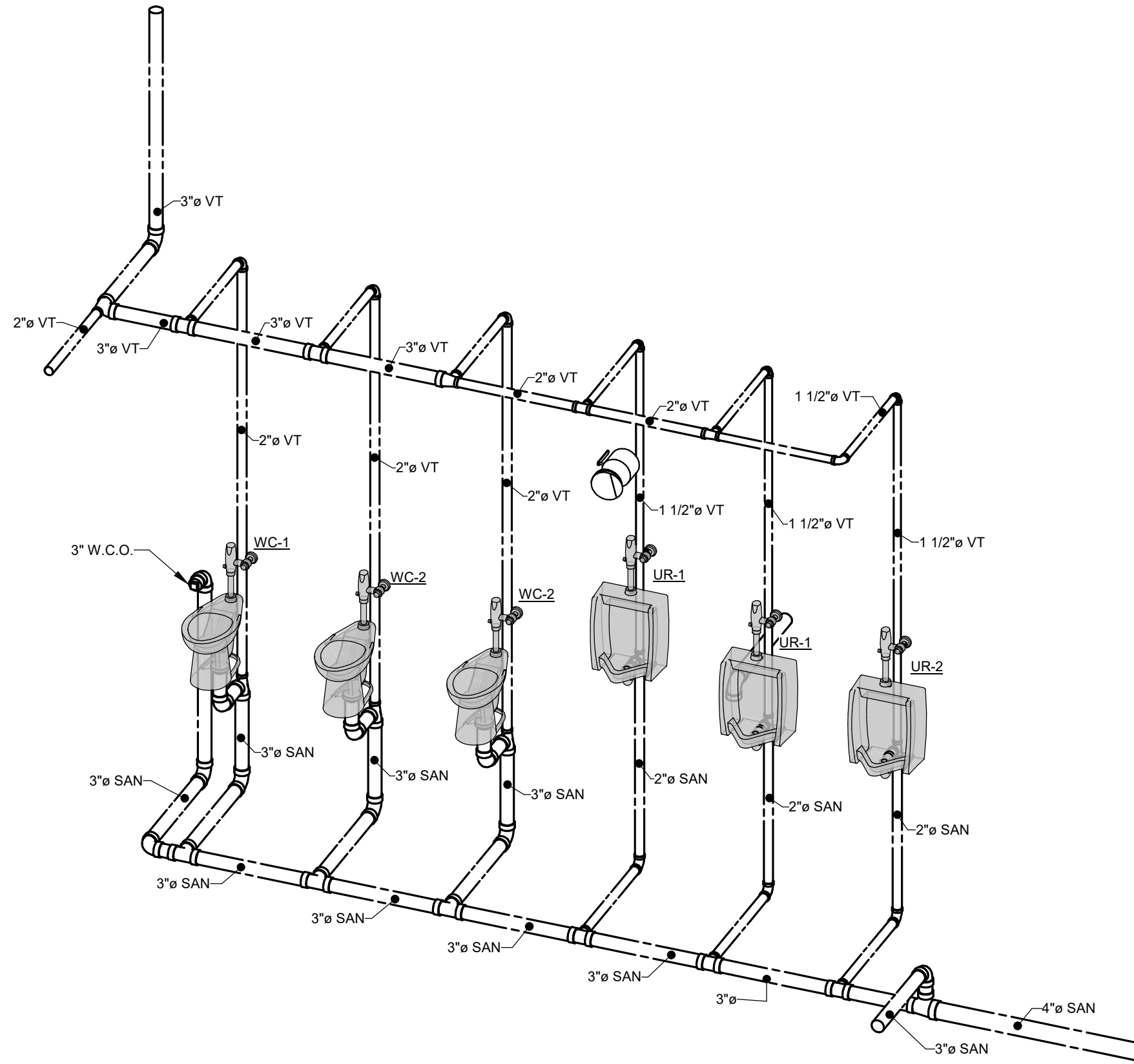




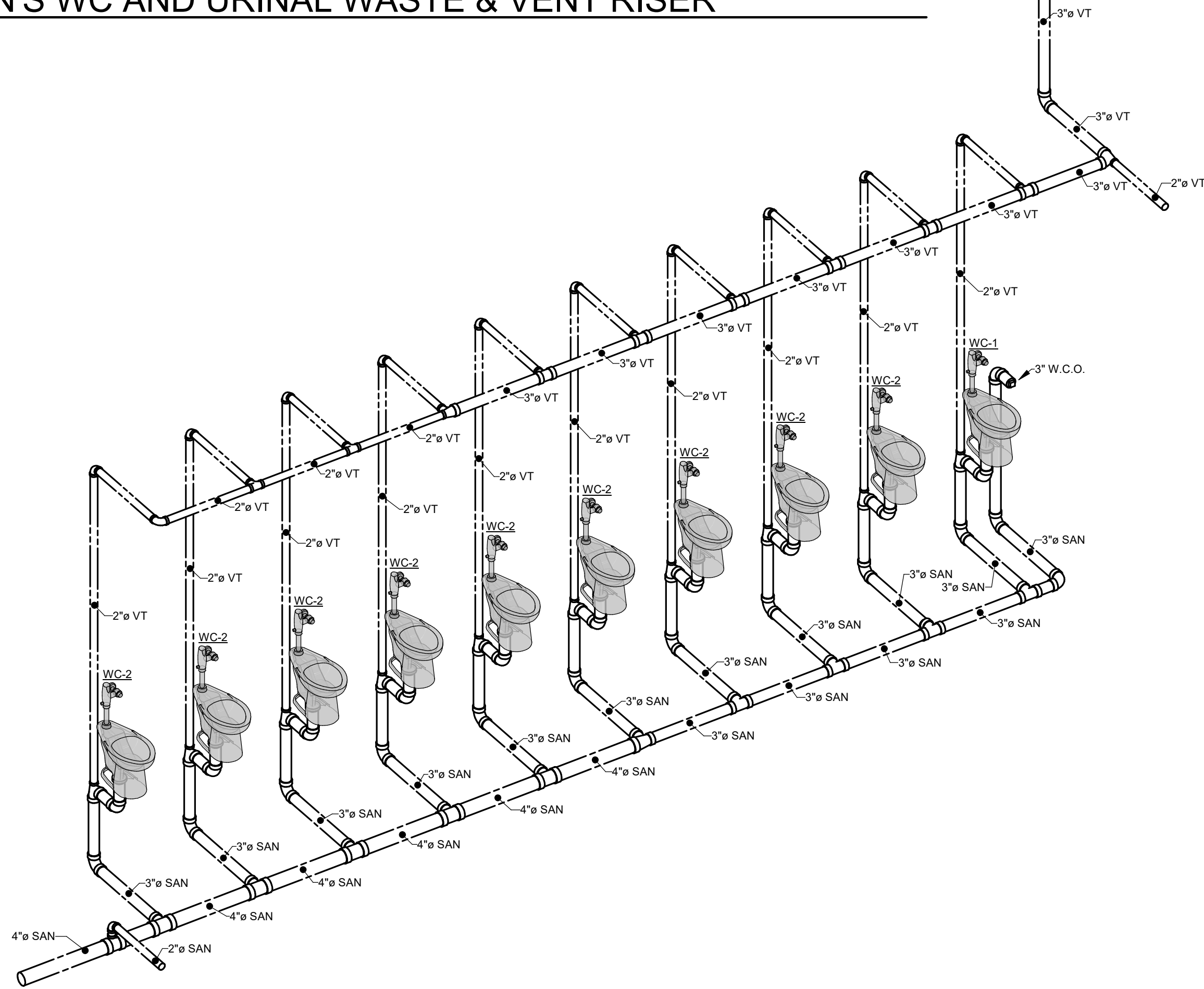
3
M103
MEN'S LAVATORY WASTE & VENT RISER



1
M103
WOMEN'S LAVATORY WASTE & VENT RISER



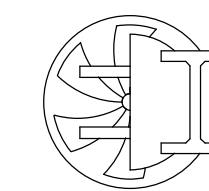
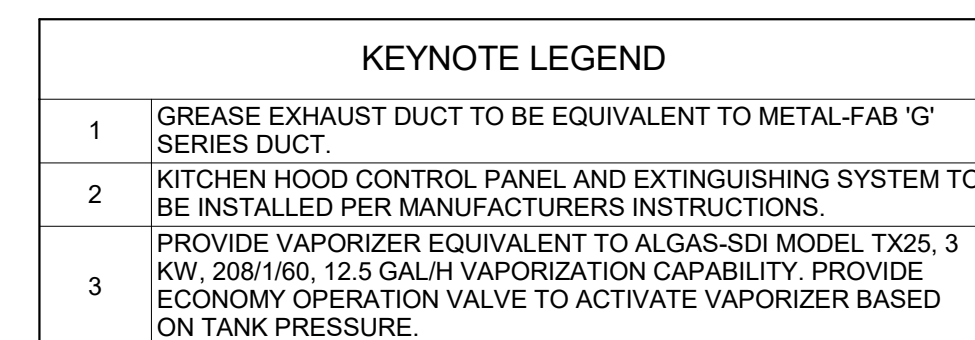
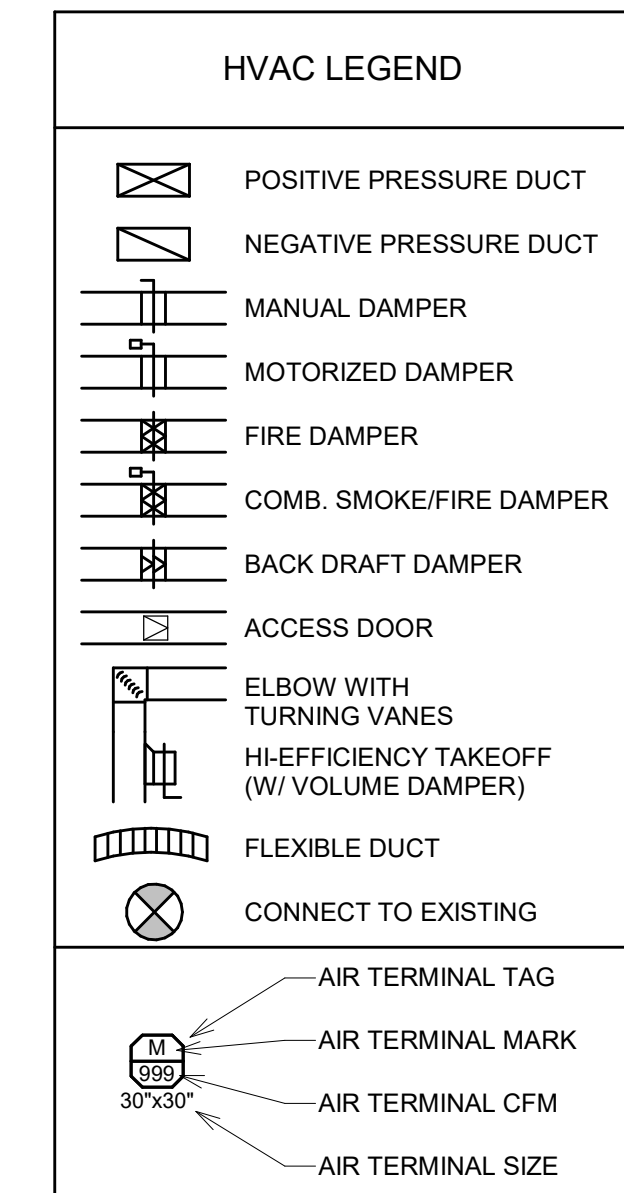
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M103
MEN'S WC AND URINAL WASTE & VENT RISER



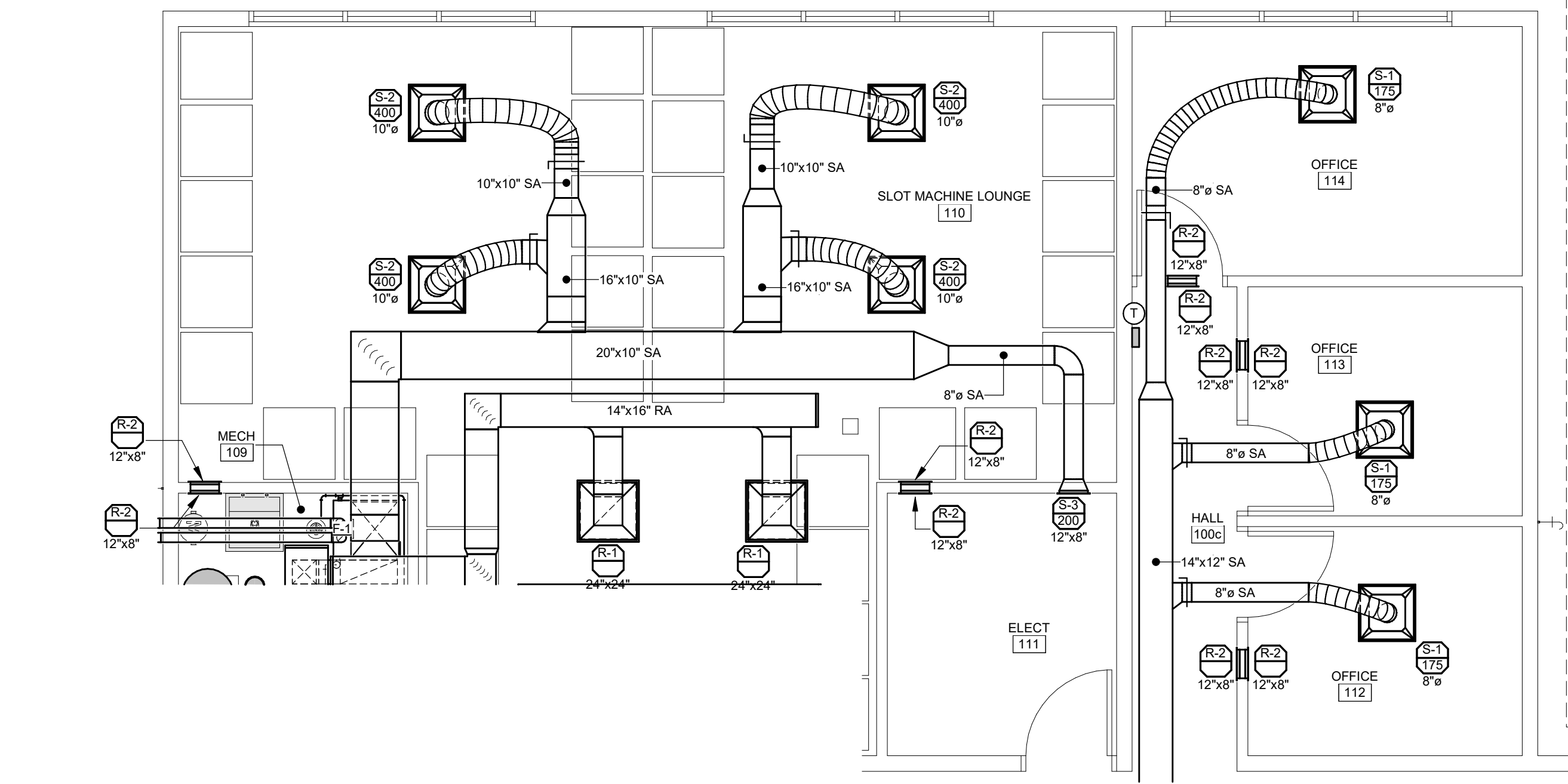
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M103
WOMEN'S WC WASTE & VENT RISER

PLUMBING FIXTURE CONNECTIONS			
	WASTE	VENT	SUPPLY
WATER CLOSET (FLUSH VALVE)	3"	2"	1"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (MULTISTATION)	2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
SERVICE/MOP SINKS	3"	1-1/2"	3/4"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"

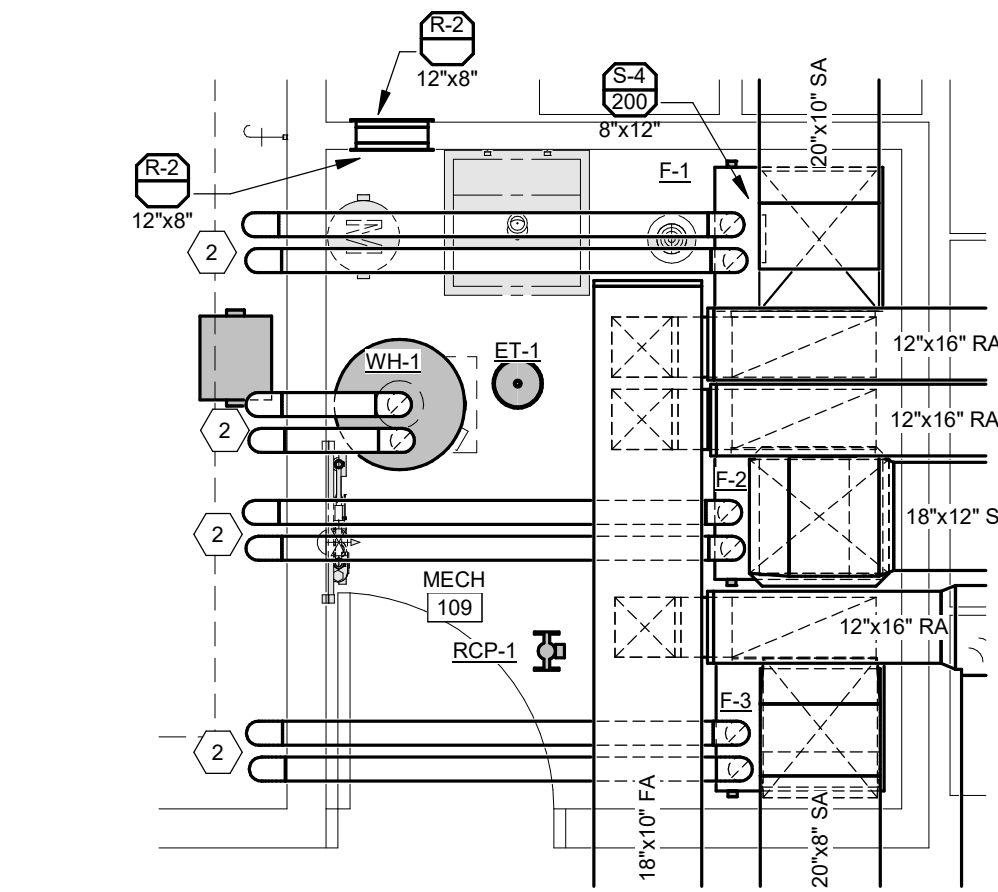
PIPING LEGEND	
---	ABOVEGROUND WASTE
---	UNDERGROUND WASTE
---	VENT
---	DOMESTIC COLD WATER
---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER 140F
---	DOMESTIC HOT WATER 140F
---	DOMESTIC HOT WATER 120F
---	RECIRC HOT WATER
---	RECIRC HOT WATER
---	CONDENSATE DRAIN
---	PROPANE
⊗	CONNECT TO EXISTING



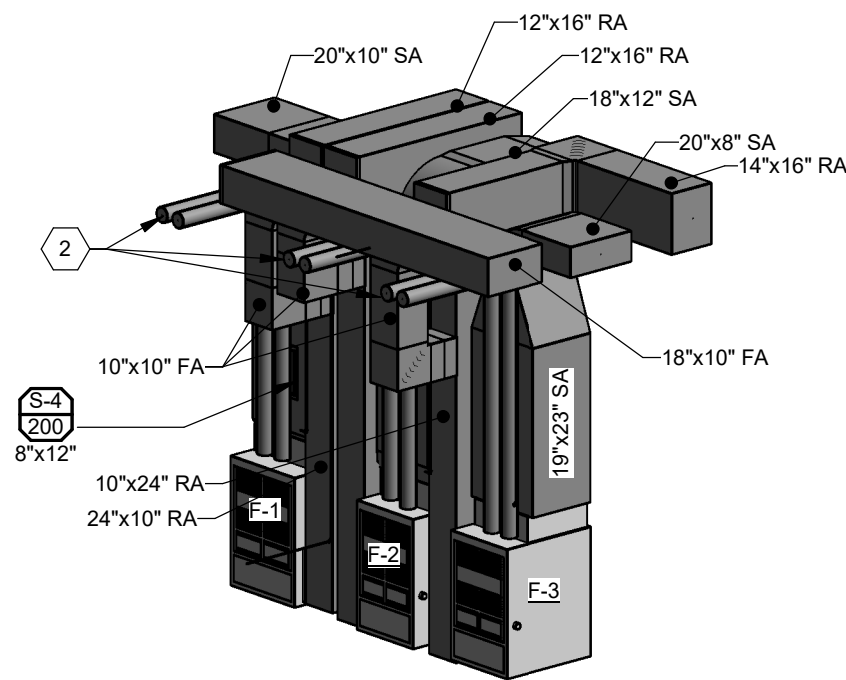
**Prairie
Engineering P.C.**
Professional Consulting Engineers
Minot, ND 58701 | 701.852.6363



2 ENLARGED AIR DISTRIBUTION PLAN
1/4" = 1'-0"

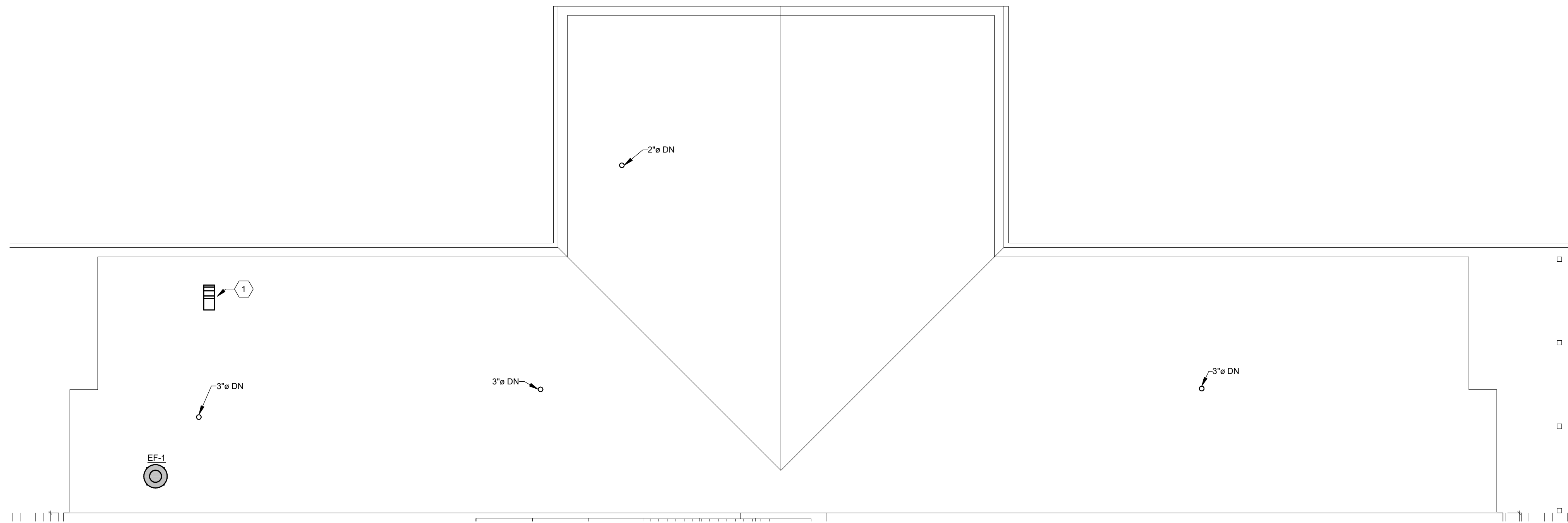


3 ENLARGED MECH ROOM HVAC PLAN
3/8" = 1'-0"



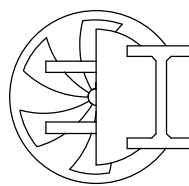
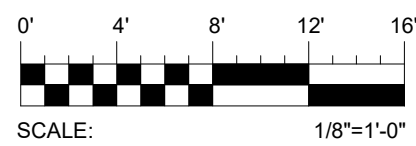
4 MECH ROOM 3D
NTS

HVAC LEGEND	
	POSITIVE PRESSURE DUCT
	NEGATIVE PRESSURE DUCT
	MANUAL DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	COMB. SMOKE/FIRE DAMPER
	BACK DRAFT DAMPER
	ACCESS DOOR
	ELBOW WITH TURNING VANES
	HI-EFFICIENCY TAKEOFF (W/ VOLUME DAMPER)
	FLEXIBLE DUCT
	CONNECT TO EXISTING
	AIR TERMINAL TAG
	AIR TERMINAL MARK
	AIR TERMINAL CFM
	AIR TERMINAL SIZE



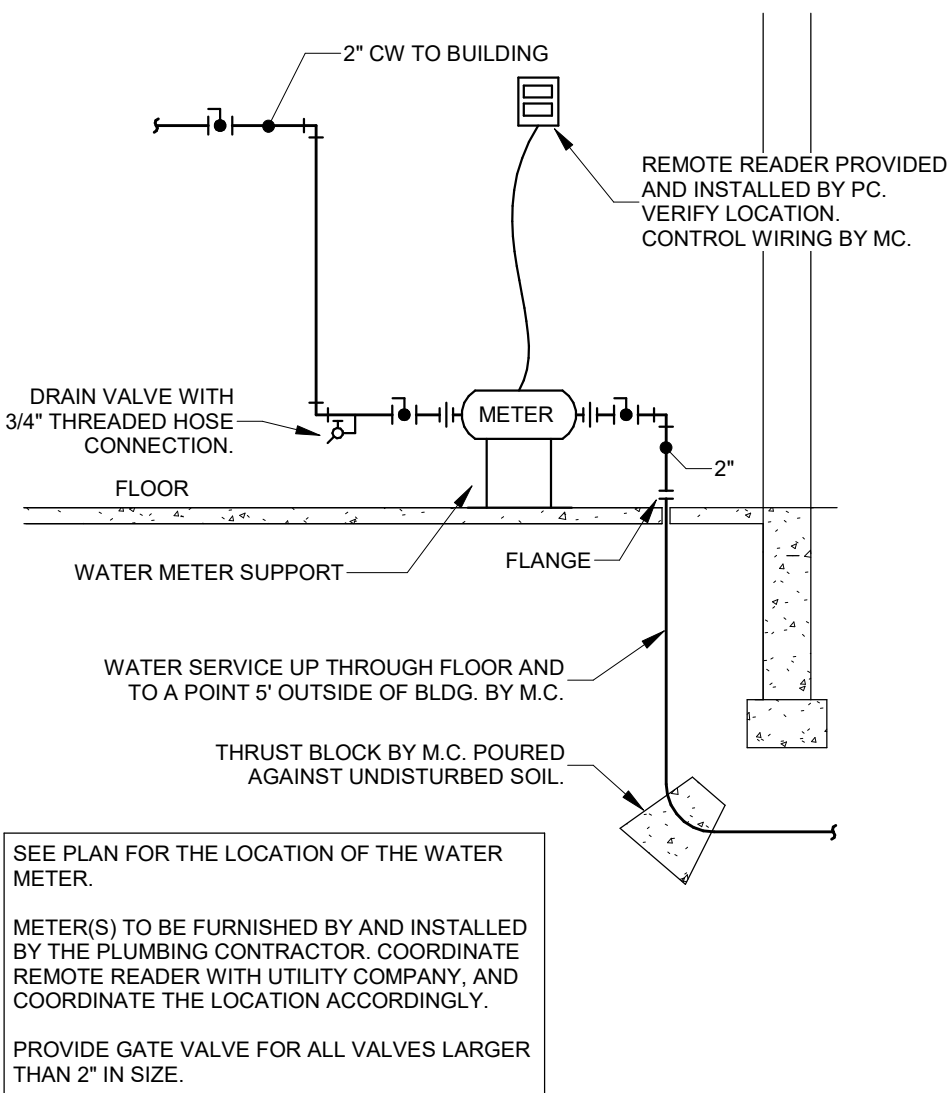
1 ROOF PLAN
1/8" = 1'-0"

KEYNOTE LEGEND	
1	MC SHALL PROVIDE EXHAUST SLOPED ROOF TERMINATION WITH BUG SCREEN. COORDINATE WITH G.C. FOR FINAL LOCATION.
2	PROVIDE VENTING AND COMBUSTION AIR SIZED PER MANUFACTURER RECOMMENDATIONS. CONCENTRIC VENT IS ACCEPTABLE IF ALLOWED BY MANUFACTURER.

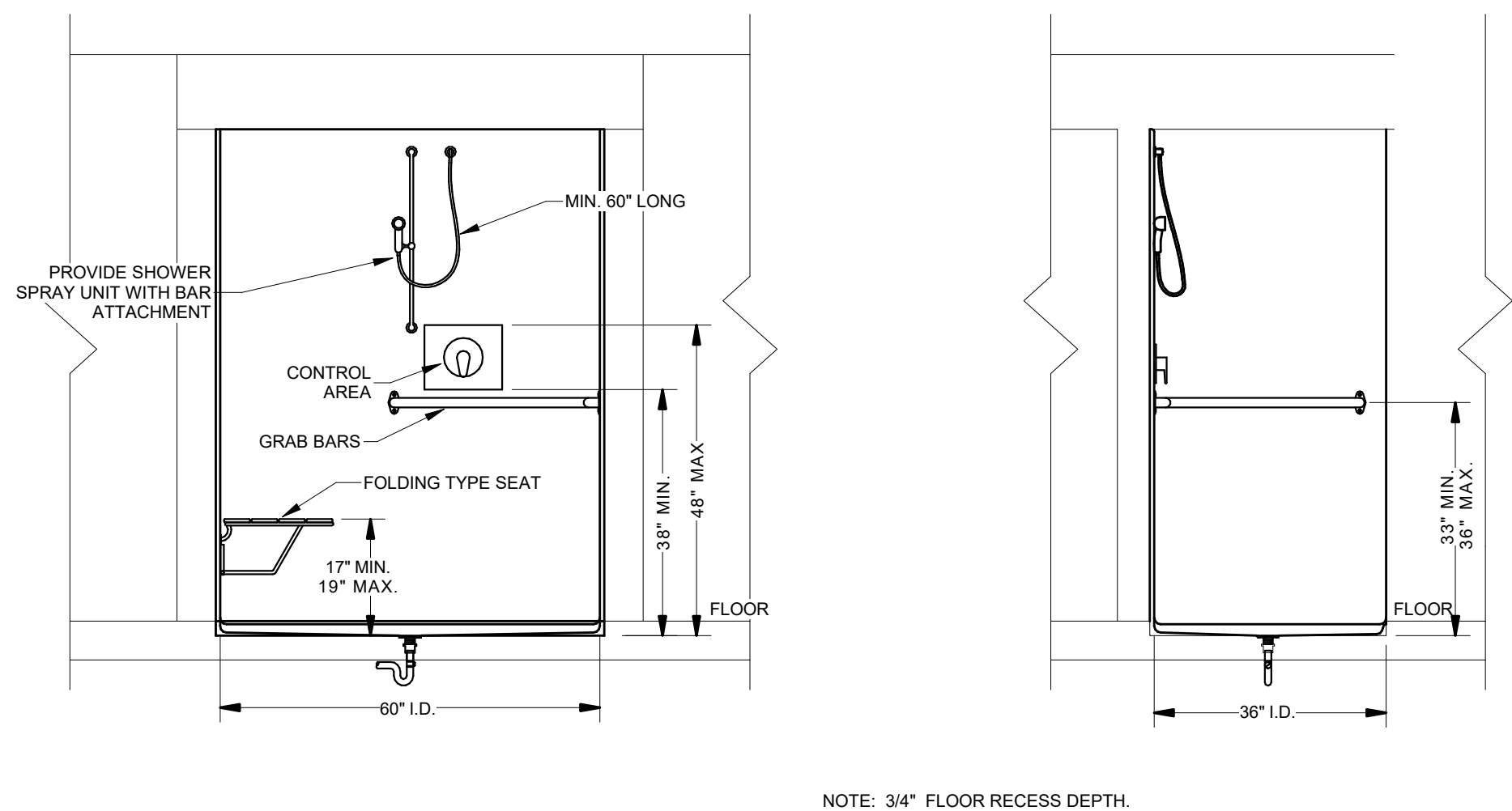


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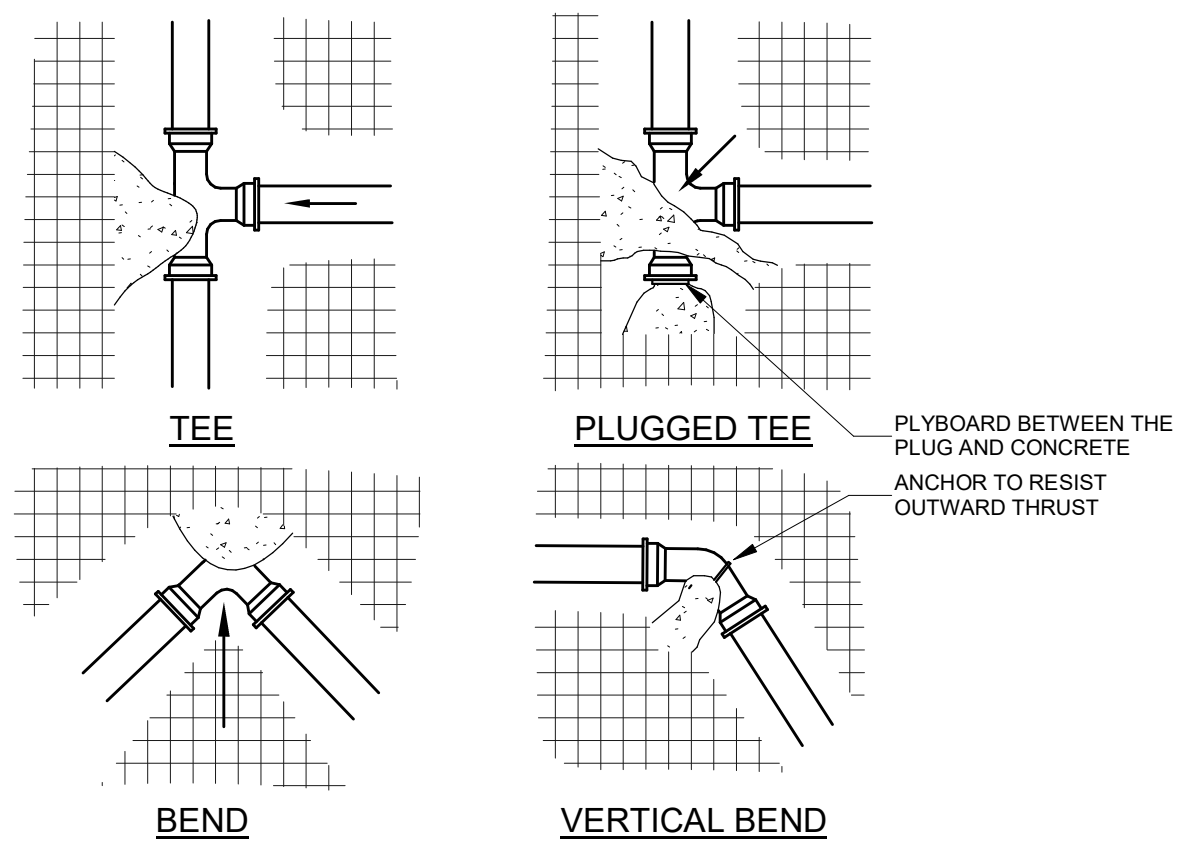




1 WATER METER DETAIL
M300 NTS



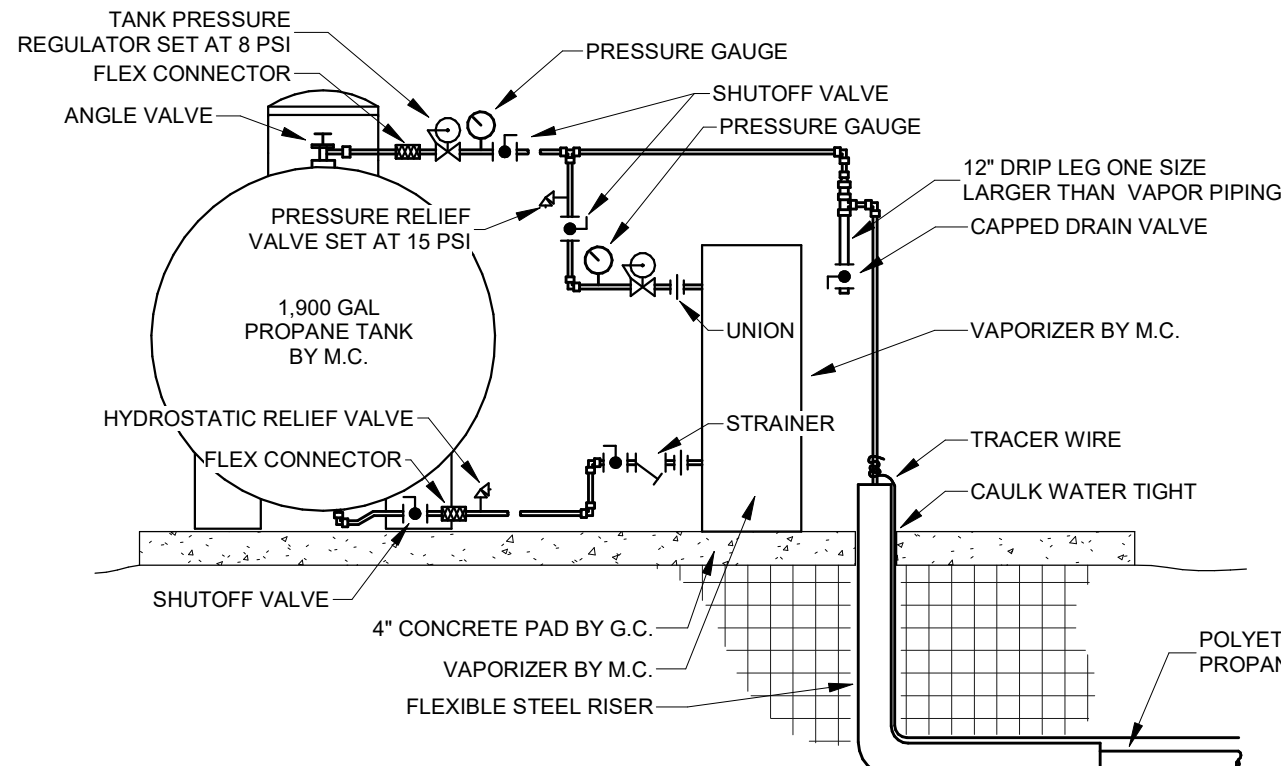
5 ADA SHOWER DETAIL
M300 NTS



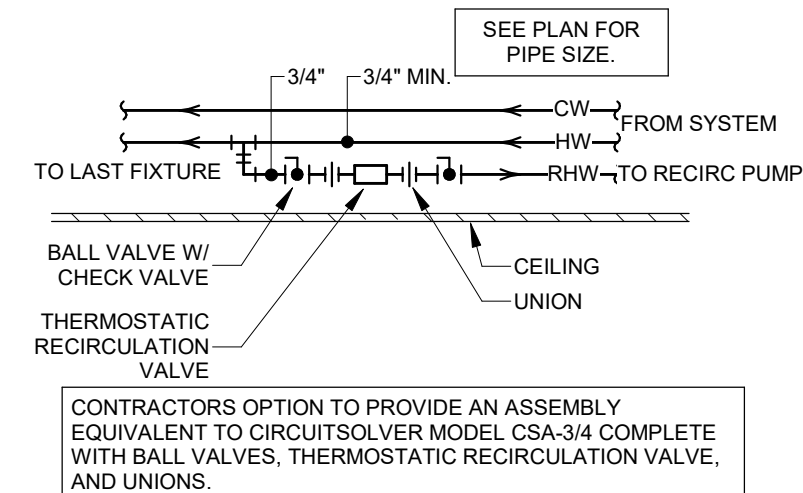
2 THRUST BLOCK DETAIL
M300 NTS

MINIMUM BEARING AREA OF THRUST BLOCK					
FITTING SIZE	TEE, DEAD END & 90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	
4"	1.3 SF	0.7 SF	0.4 SF	0.2 SF	
6"	3.0 SF	1.6 SF	0.8 SF	0.4 SF	
8"	5.3 SF	2.9 SF	1.5 SF	0.7 SF	
10"	8.3 SF	4.5 SF	2.3 SF	1.2 SF	

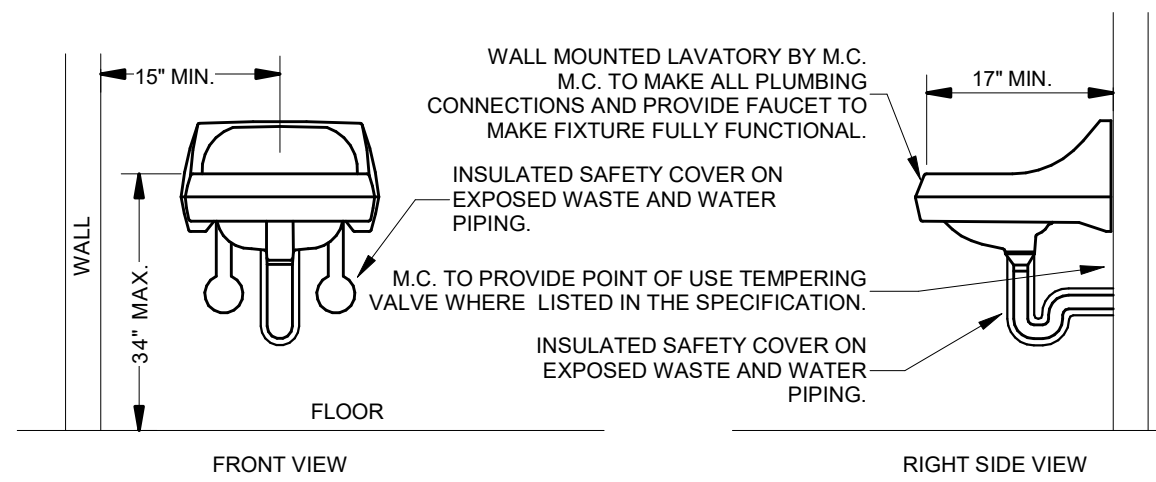
1. BASED ON 2,000 LB/FT LATERAL SOIL BEARING PRESSURE
2. ALL BLOCKS TO BEAR AGAINST UNDISTURBED EARTH



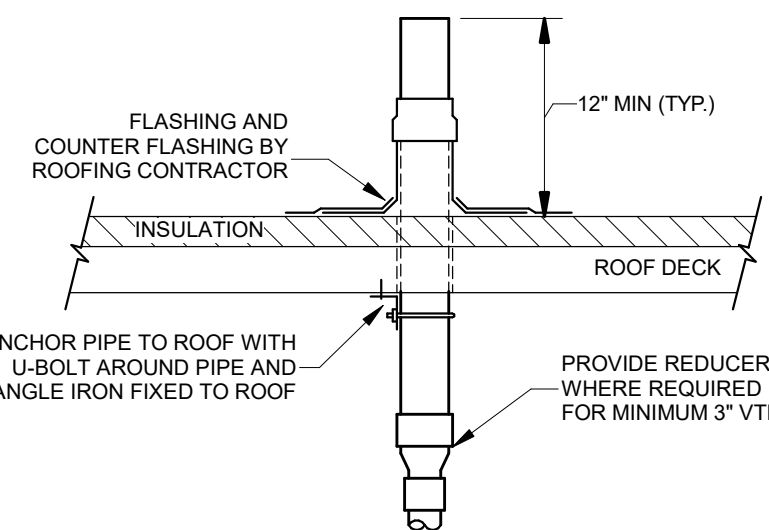
11 PROPANE TANK AND VAPORIZER PIPING DETAIL
M300 NTS



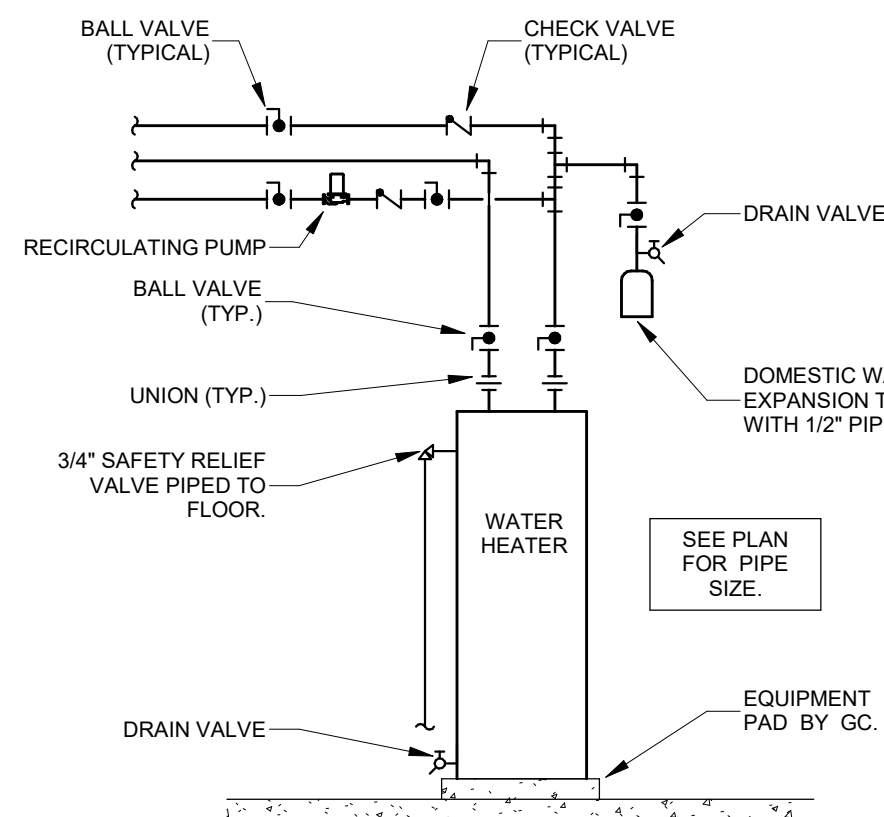
3 DOMESTIC RECIRC HOT WATER DETAIL
M300 NTS



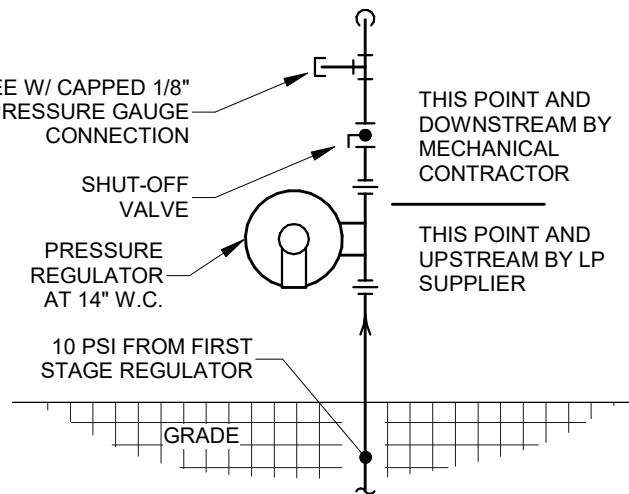
7 ADA LAVATORY DETAIL
M300 NTS



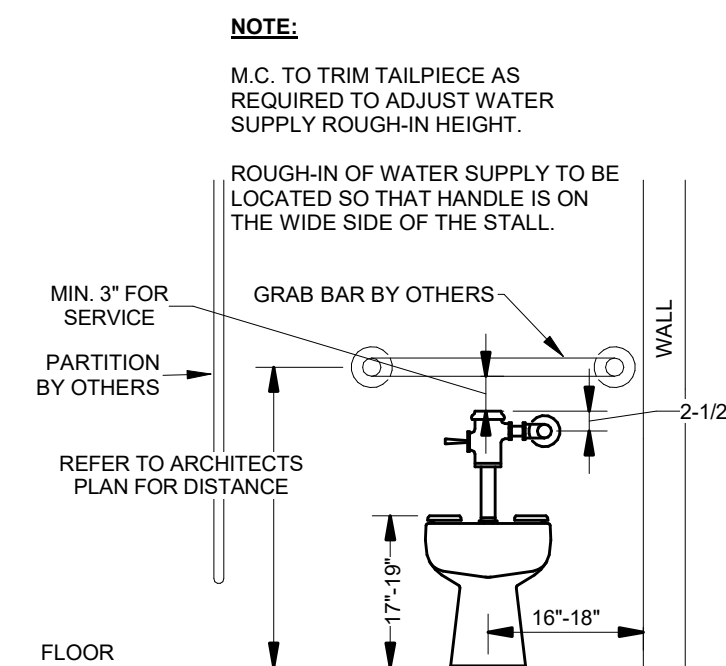
9 VENT THRU ROOF (VTR)
M300 NTS



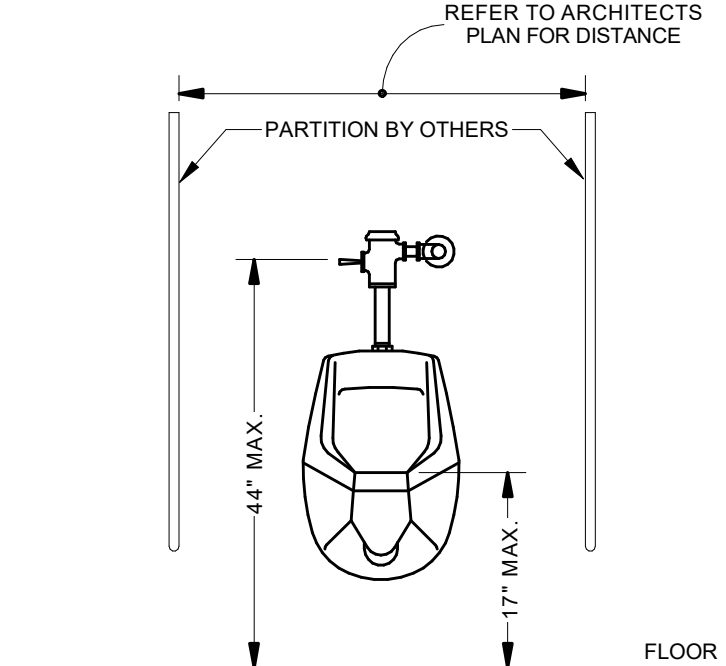
4 WATER HEATER PIPING DETAIL
M300 NTS



14 LP REGULATOR DETAIL
M300 NTS

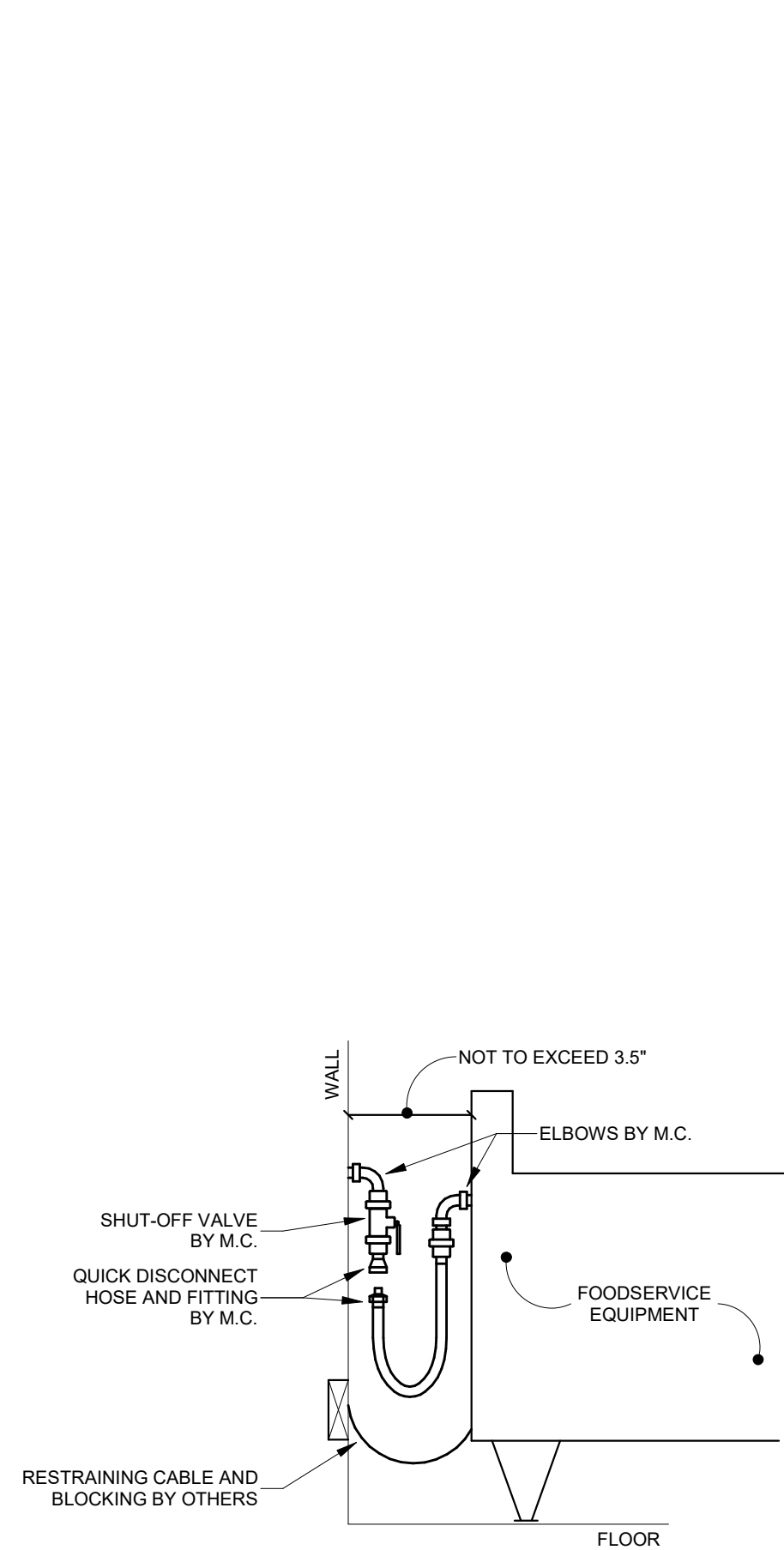


8 ADA WATER CLOSET DETAIL
M300 NTS

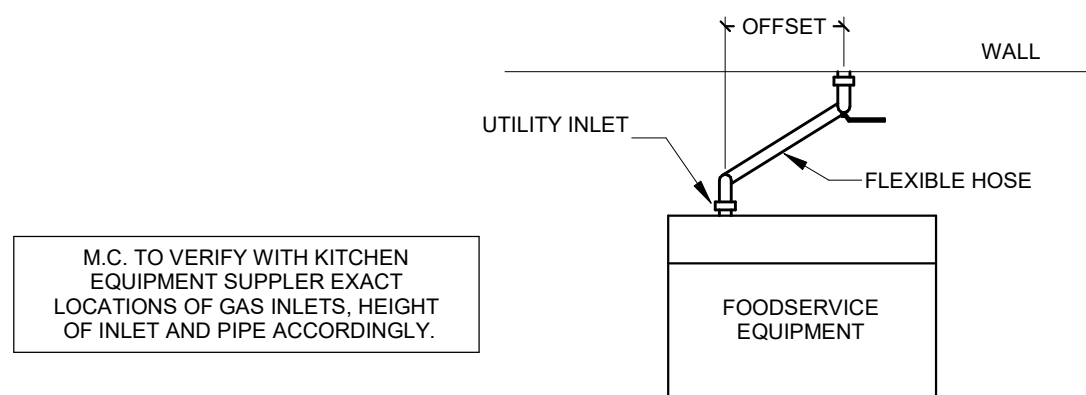


6 ADA URINAL DETAIL
M300 NTS



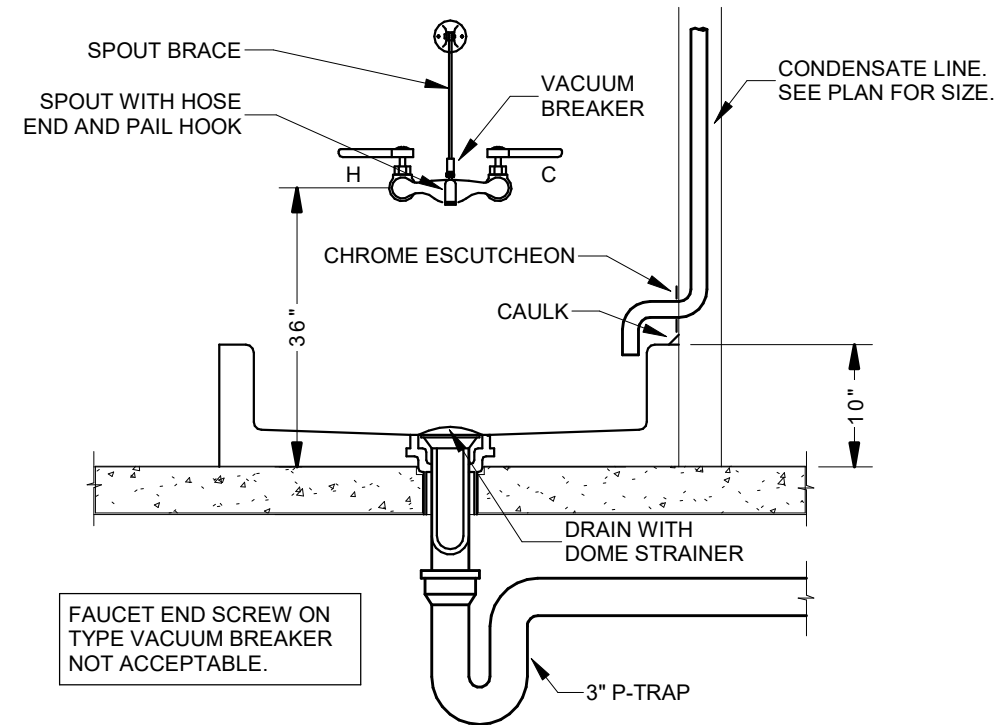


SECTION

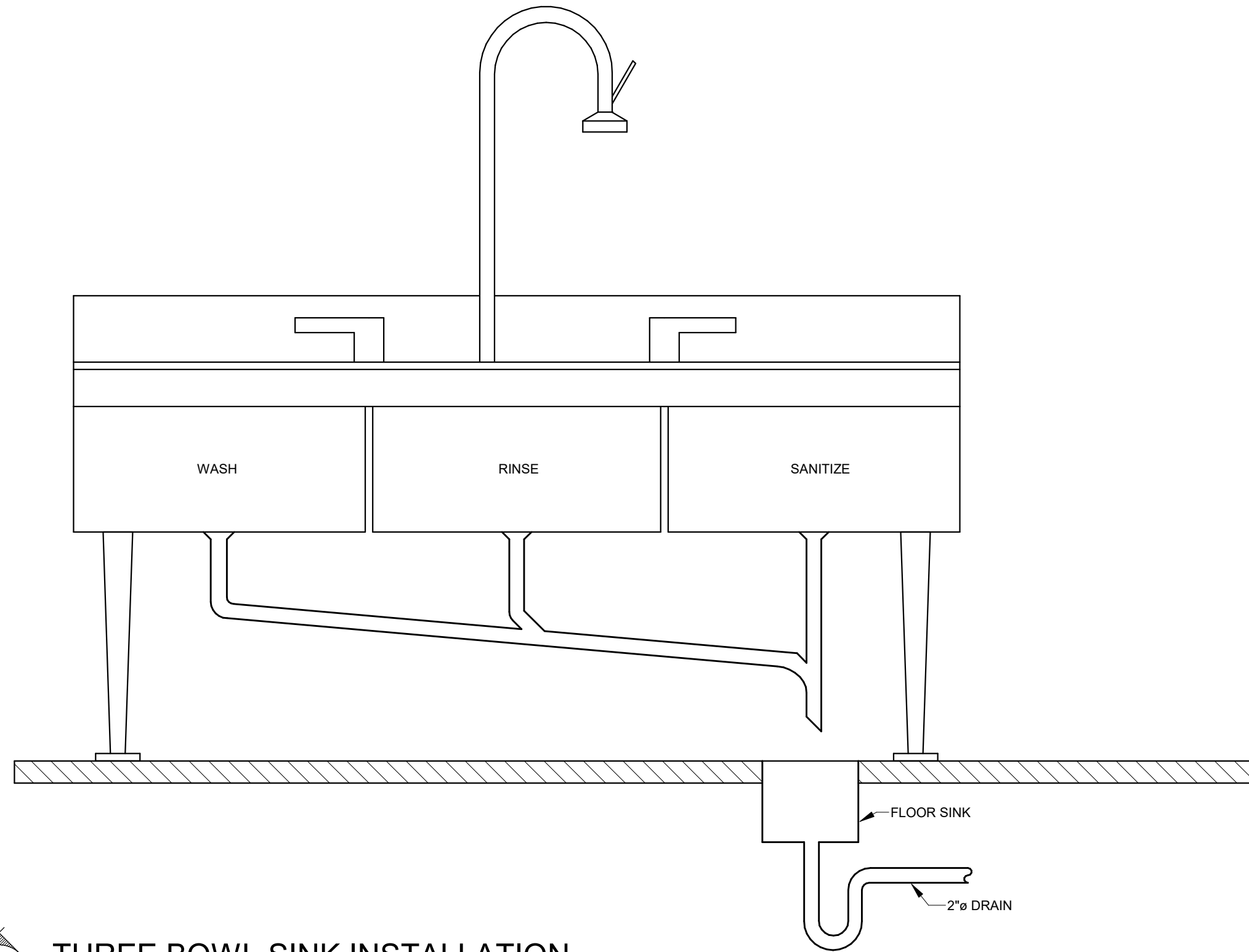


PLAN

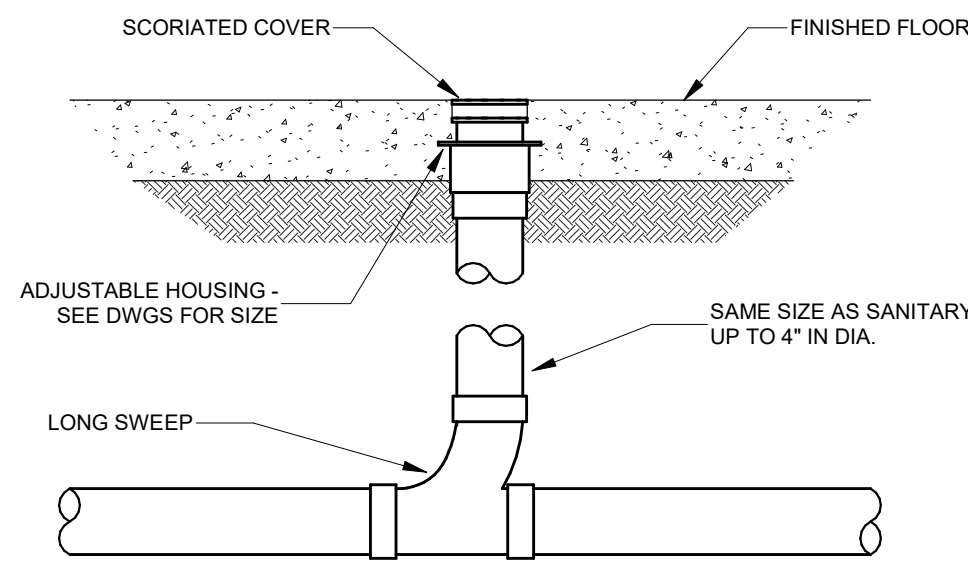
KITCHEN EQUIPMENT GAS CONNECTION DETAIL



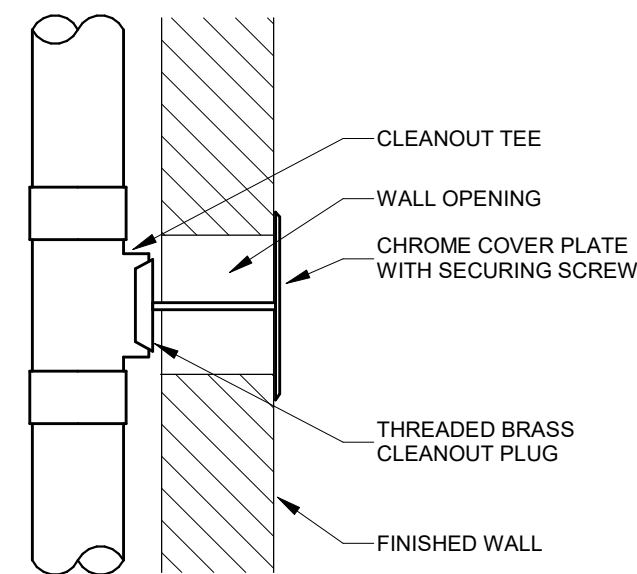
MOP SINK DETAIL



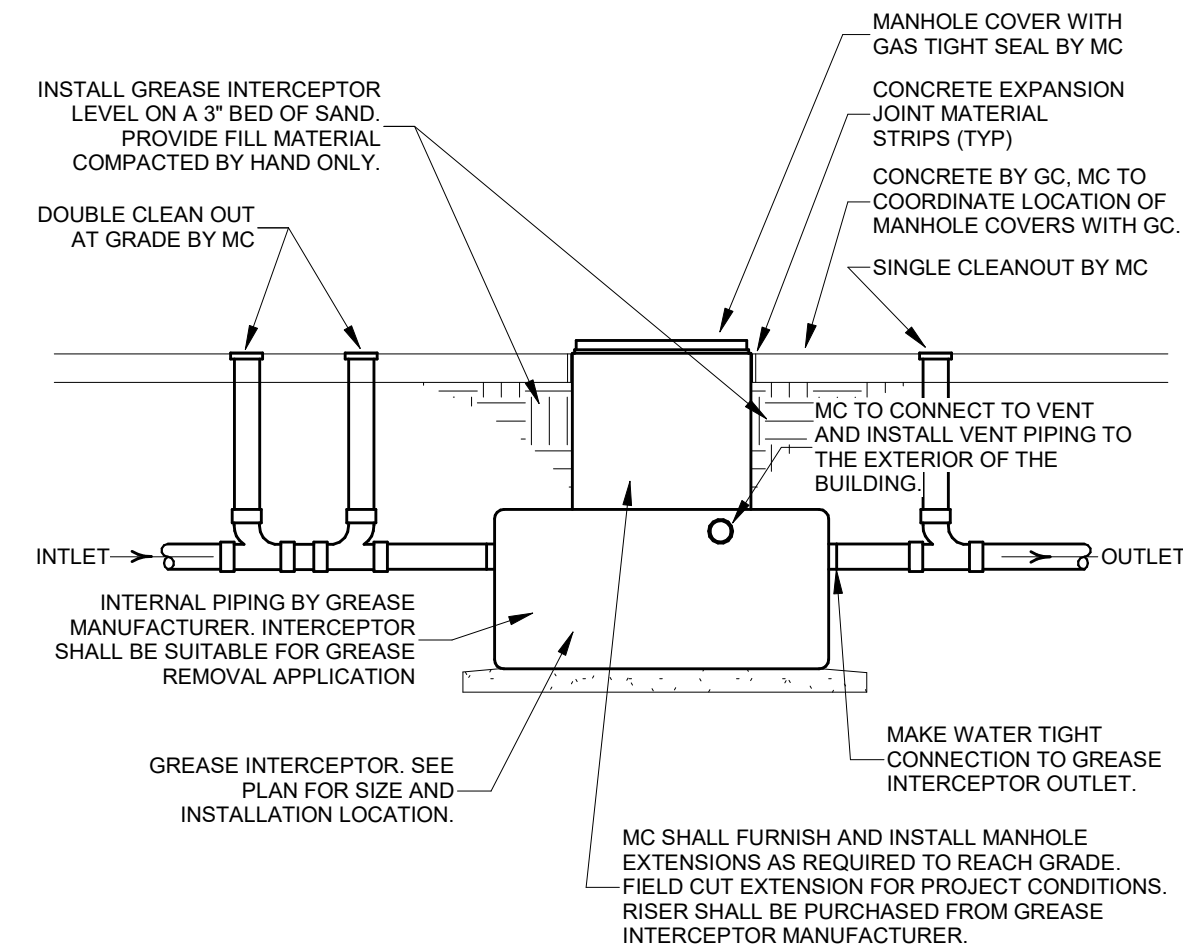
THREE BOWL SINK INSTALLATION



FLOOR CLEANOUT DETAIL



WALL CLEANOUT DETAIL



GREASE INTERCEPTOR DETAIL

STANDARD ELECTRICAL SYMBOLS

BASED ON ANSI Y32.9-1972, ANSI A117.1-1986, AND FEDERAL REGISTER 56-144(ADA)
MOUNTING HEIGHT MEASUREMENTS SHALL BE MADE FROM FINISH FLOOR TO CENTER LINE OF OUTLET

SYMBOL	DESCRIPTION	MTG. HT.
LIGHTING OUTLETS		
	CEILING LUMINAIRE, TYPE A, CKT 1, SW-B	SCHEDULED
	WALL MOUNT LUMINAIRE	
	STRIP TYPE LUMINAIRE	
	EXIT SIGNAGE	
	EMERGENCY BATTERY UNIT	SCHEDULED
	REMOTE SEALED BEAM	SCHEDULED
	PORCELAIN LAMP HOLDER, 100A LAMP	
	JUNCTION BOX	
RECEPTACLE OUTLETS		
	SINGLE, CKT 1	18"
	DUPLEX	18"
	DOUBLE DUPLEX	18"
	DUPLEX - SPLIT WIRED	18"
	DUPLEX - GROUND FAULT CIRCUIT INTERRUPTER	18"
	DOUBLE DUPLEX - GROUND FAULT CIRCUIT INTERRUPTER	18"
	SPECIAL CONFIGURATION, DESIGNATION REFERS TO SCHEDULE	SCHEDULED
	MULTI-OUTLET ASSEMBLY, ARROWS EXTEND TO LIMIT OF INSTALLATION, SUBSCRIPT INDICATES SPACING OF OUTLETS	
	CLOCK RECEPTACLE	82"
	DUPLEX RECEPTACLE - FLOOR BOX	
SWITCH OUTLETS		
	SINGLE POLE - SEE WIRELESS SWITCH SCHEDULE FOR LIGHTING CONTROL	46"
	DOUBLE POLE	46"
	THREE-WAY	46"
	FOUR-WAY	46"
	KEY OPERATED	
	MOTOR - PROVIDE OVERLOAD UNIT AS REQ'D, TOGGLE ACCEPTABLE IF INTERNAL THERMAL PROTECTION INCLUDED, SWITCH NOT REQUIRED IF MOTOR ASSEMBLY HAS INTEGRAL DISCONNECTING MEANS	
	PILOT HANDLE	46"
	TIME DELAY	46"
	DIMMER - 100W UNLESS OTHERWISE INDICATED	46"
	GANDED SWITCHES - ARROW INDICATES MULTI-LEVEL SWITCHING	46"
	CEILING MOUNTED OCCUPANCY SENSOR	
	WALL MOUNTED OCCUPANCY SENSOR - ARROW INDICATES MULTI-LEVEL SWITCHING, 4 - 0-10V DIMMING	46"
MISCELLANEOUS		
	PLAN OR DETAIL NOTE	
	SPECIAL PURPOSE CONNECTION - AS REQUIRED BY EQUIPMENT MANUFACTURER, CO-ORDINATE ROUGH-IN WITH SHOP DRWG.	
	BRANCH CIRCUIT PANELBOARD, SHADING INDICATES NEW PANEL	TOP 75"
	CONTROL PANEL	
	EXTERNALLY OPERATED DISCONNECT SWITCH	
	CONTROLLER OR RELAY	
	COMBINATION CONTROLLER AND DISCONNECTION MEANS	
	MOTOR, DESIGNATION REFERS TO SCHEDULE	
	EQUIPMENT DESIGNATION, SEE SCHEDULE	
	ELECTRIC HEAT TO SCALE, DESIGNATION REFER TO SCHEDULE, "T" INDICATES INTEGRAL THERMOSTAT	46"
	THERMOSTAT-PROVIDED BY DIV. 26	46"
	THERMOSTAT-FURNISHED BY DIV. 23, INSTALLED BY DIV. 26	46"
	HUMIDISTAT-FURNISHED BY DIV. 23, INSTALLED BY DIV. 26	46"
	POTENTIOMETER-FURNISHED BY DIV. 23, INSTALLED BY DIV. 26	46"
	TIME SWITCH	
	PHOTOELECTRIC SWITCH	
CIRCUITING		
	HOME RUN, MIN 3/4" C, ARROWS AND SUBSCRIPTS INDICATE NUMBER AND IDENTIFICATION OF CIRCUITS	
	EMERGENCY, MIN 1/2" C-#10 AWG	
	TELEPHONE, MIN 3/4"C, HOME RUN TO TERMINAL BOARD	
	TELEPHONE, MIN 3/4"C, STUB INTO CEILING SPACE	
	LOW VOLTAGE, MIN 1/2"C-#14 AWG AS REQ'D	
	SPECIAL SYSTEMS, MIN 3/4"C, PROVIDE CONDUCTORS AS REQUIRED BY MANUFACTURER, SUBSCRIPT INDICATES SYSTEM, SEE STANDARD ABBREVIATIONS	
	0-10 VOLT CLASS 2 DIMMING CONDUCTORS	
FIRE ALARM SYSTEMS		
	DETECTOR, SUBSCRIPT INDICATES ZONE, SUBSCRIPT DESCRIBES NOTATION: D-DUCT, R-RATE OF RISE, THERMAL, F-FIXED TEMPERATURE THERMAL, I-IONIZATION, P-PHOTO-ELECTRIC, C-COMEL CARBON MONOXIDE & PHOTOELECTRIC	CEILING
	CHIME	98"
	MAGNETIC DOOR HOLDER	
	FAN RELAY	
	FLOW SWITCH	46"
	MANUAL STATION	98"
	AUDIBLE NOTIFICATION APPLIANCE	98"
	VISUAL NOTIFICATION APPLIANCE	98"
	AUDIBLE-VISUAL NOTIFICATION APPLIANCE	98"
	MAIN VALVE SUPERVISORY ("TAMPER") SWITCH	
	FIRE ALARM CONTROL PANEL	TOP 66"

STANDARD ABBREVIATIONS

AC	ABOVE COUNTER (MIN 4" ABOVE BACKSPASH)	MOS	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISH FLOOR	MLO	MAIN LUG ONLY
AFG	ABOVE FINISH GRADE	NC	NURSES CALL
AHU	AIR HANDLING UNIT	NOS	NOT REQUIRED
ATC	AUTOMATIC TEMPERATURE CONTROL	NR	NOT REQUIRED
BDF	BOTTOM OF FIXTURE	P	PAGING/BACKGROUND MUSIC
CKT	CIRCUIT	PA	PUBLIC ADDRESS
CP	CONTROL PANEL	PRV	POWER ROOF VENTILATOR
CU	CONDENSING UNIT	RF	RELIEF FAN
CUH	CABINET UNIT HEATER	RSSC	RIGID GALVANIZED STEEL CONDUIT
DT	DUST TIGHT	RT	RAIN-TIGHT
DTB	DATA TERMINATION RACK	RTU	ROOFTOP UNIT
EC	ELECTRICAL CONTRACTOR	S	SECURITY
EF	EXHAUST FAN	SD	SEE DETAIL
EM	EMERGENCY	SS	SURGE SUPPRESSION
EP	EXPLOSION PROOF	SW	SWITCH
ENC	ELECTRIC WATER COOLER	TOP	TOP OF PANEL
ENH	ELECTRIC WATER HEATER	T	TELEPHONE
F	FUSED	TSN	TWO SPEED SEPARATE WINDING
FLA	FULL LOAD AMPERES	TIB	TELEPHONE TERMINAL BOARD
FA	FIRE ALARM	VT	VAPOR TIGHT
FAP	FIRE ALARM CONTROL PANEL	W	WALL MTS. (48" AFF FORWARD REACH)
FABA	FIRE ALARM REMOTE ANNUNCIATOR	W	WALL MTS. (52" AFF SIDE REACH)
FDS	FUSIBLE DISCONNECT SWITCH	W	WEATHERPROOF
FDR	FULL VOLTAGE NON REVERSING	WT	WATER TIGHT
FVR	FULL VOLTAGE REVERSING	WM	WIREMOLD
I	INTERCOM		
IG	ISOLATED GROUND		
IL	INTERLOCK		
LV	LOW VOLTAGE		
MC	MECHANICAL CONTRACTOR		
MCA	MINIMUM CIRCUIT AMPACITY		

SPECIAL SYMBOLS PECULIAR TO THIS PROJECT

SPECIAL ABBREVIATIONS PECULIAR TO THIS PROJECT

WIRELESS SWITCH SCHEDULE

BASED ON SLIGHT AIR PART NUMBERS (OR EQUAL SYSTEM BY WAVELENS)

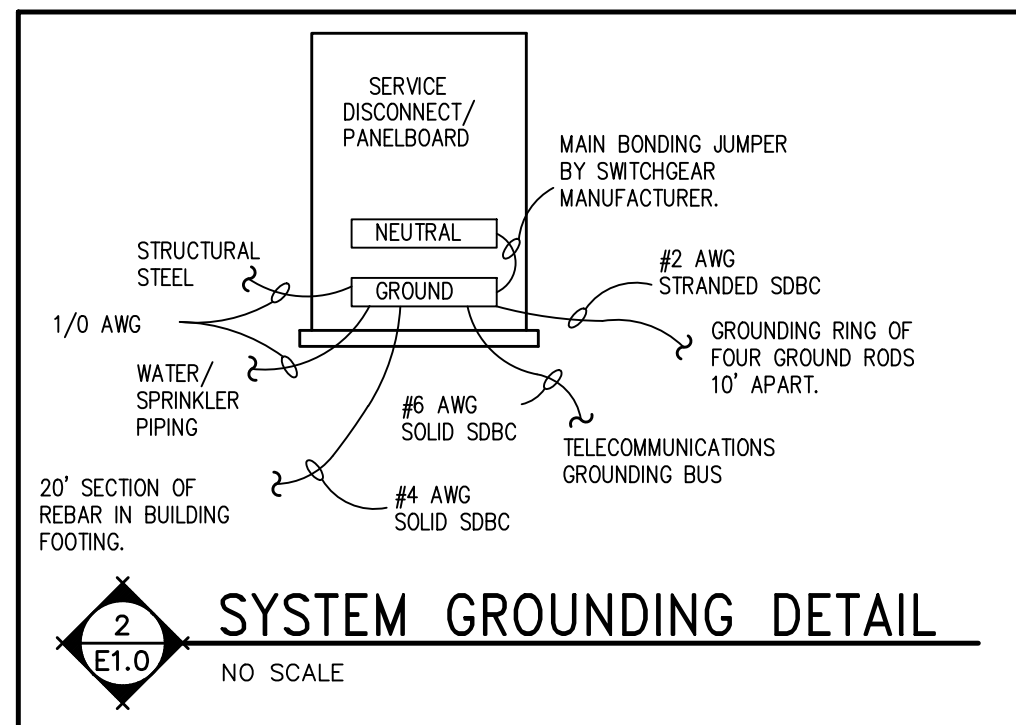
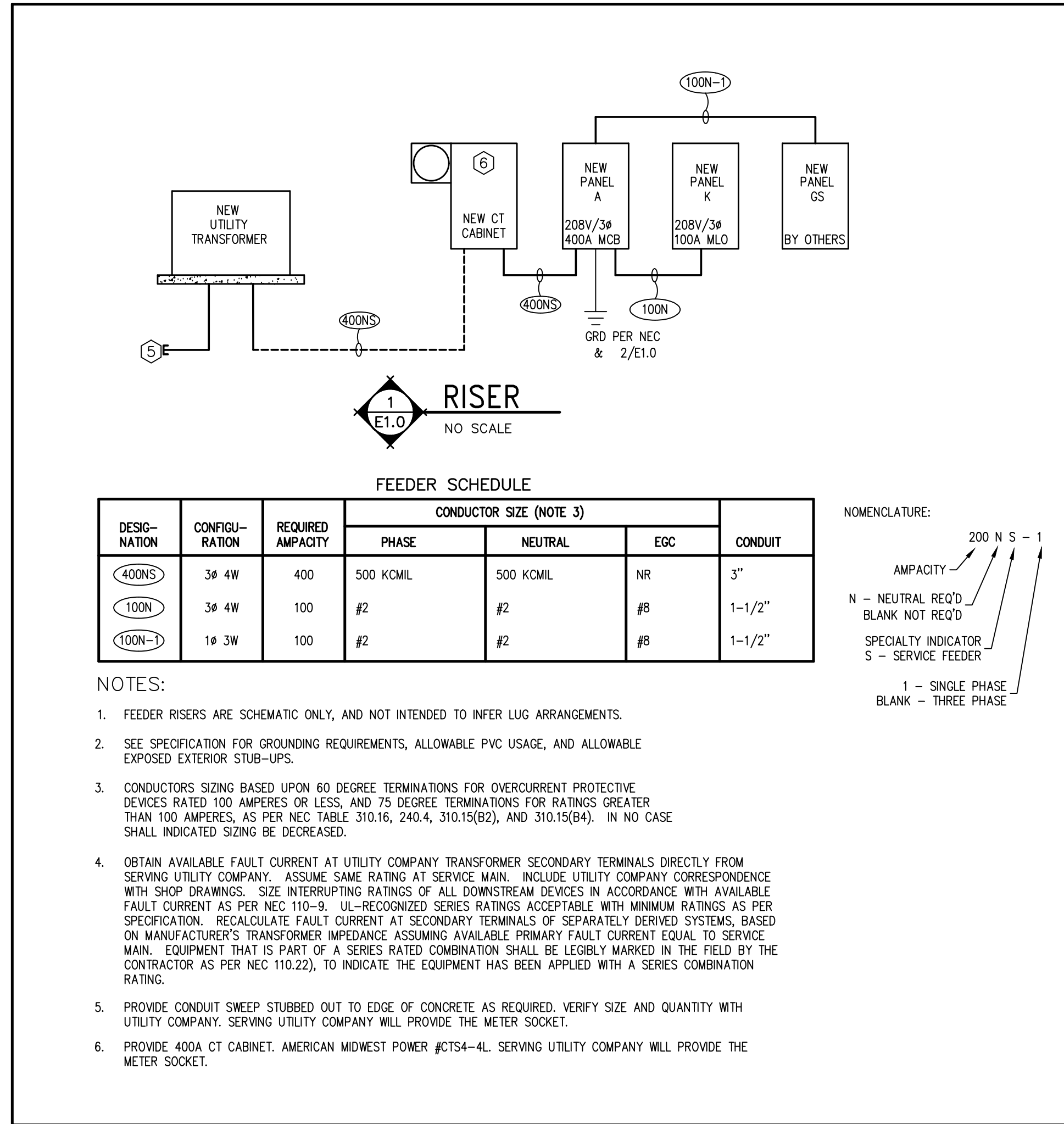
SYMBOL	DESCRIPTION	PART #
	LINE POWERED WALL SWITCH, ON/OFF, RAISE/LOWER DIMMING CONTROL	RPODLA-0X

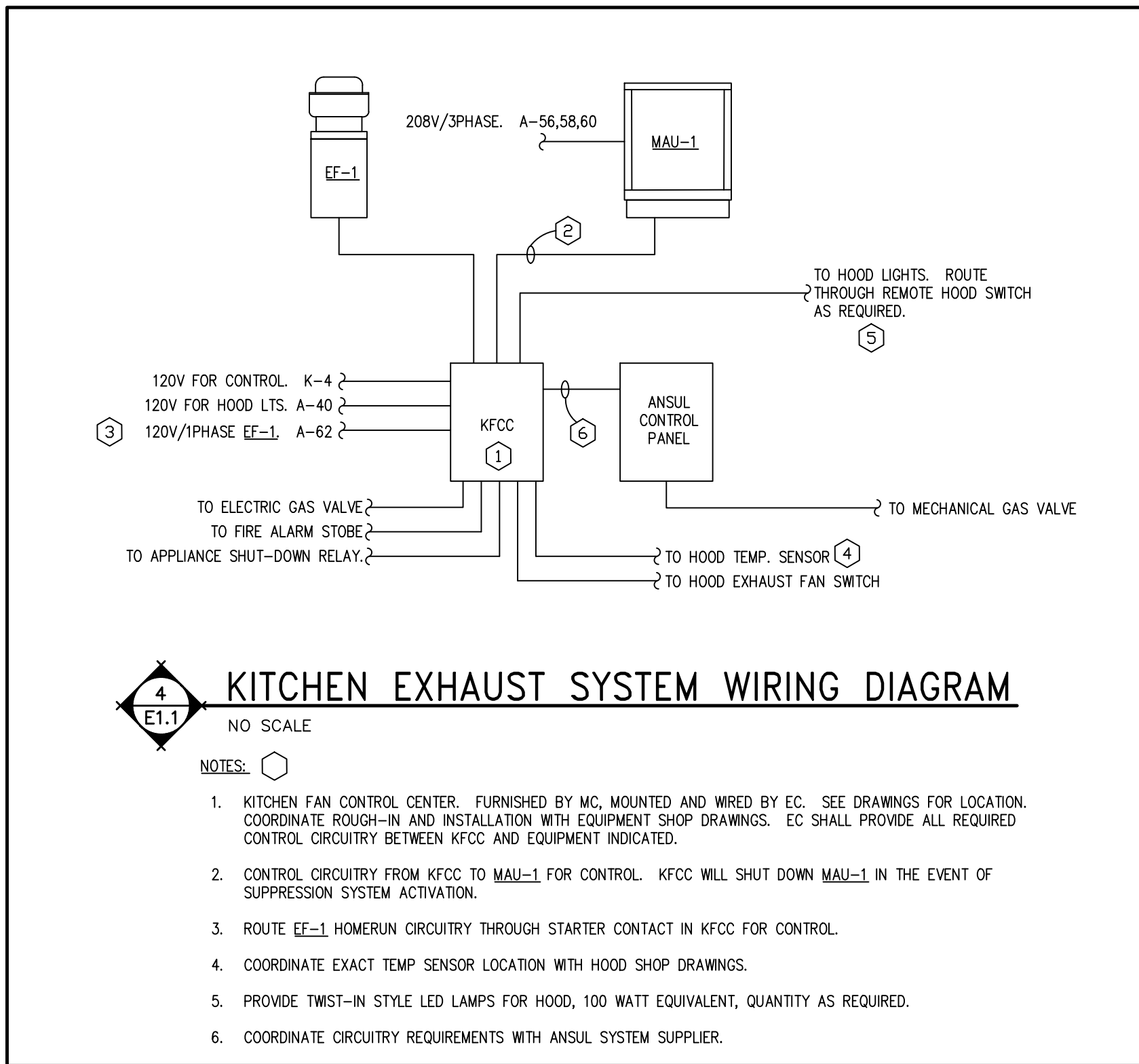
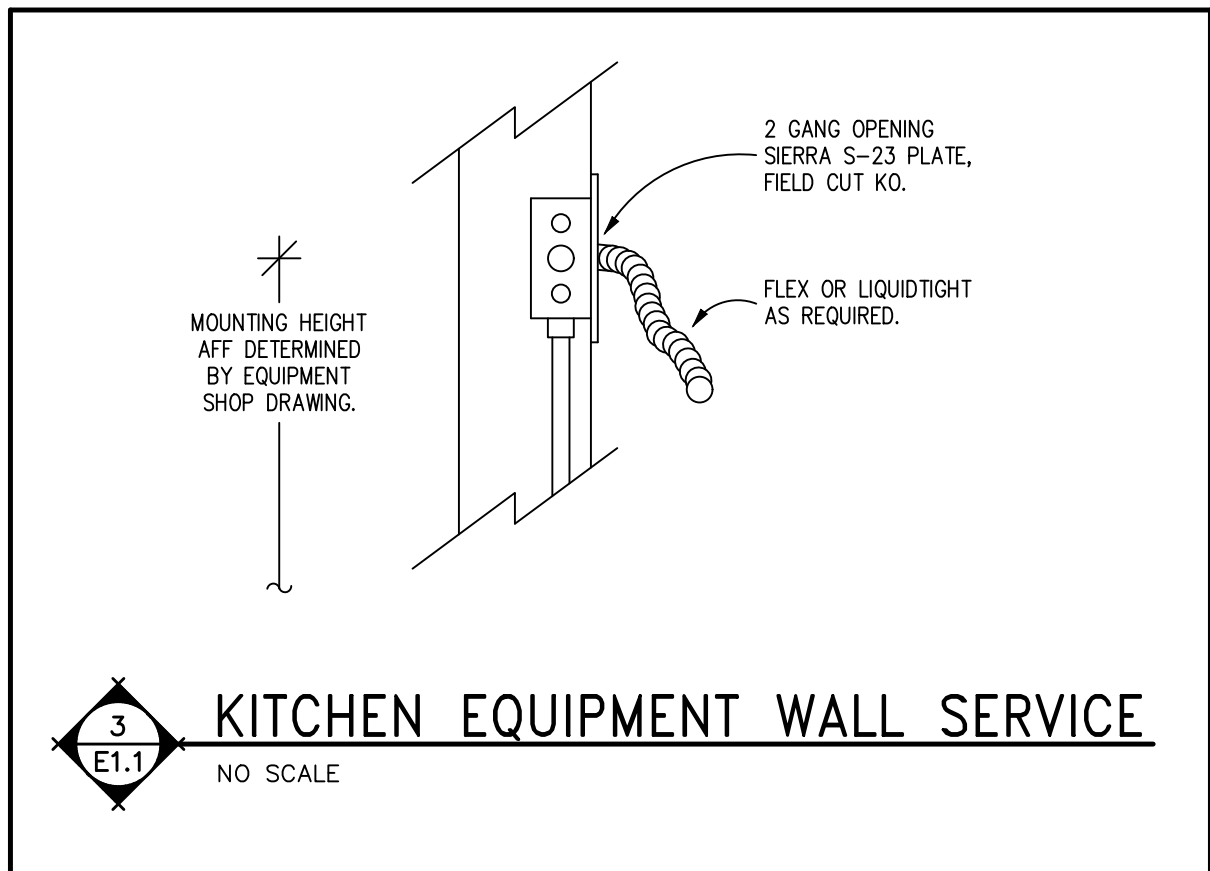
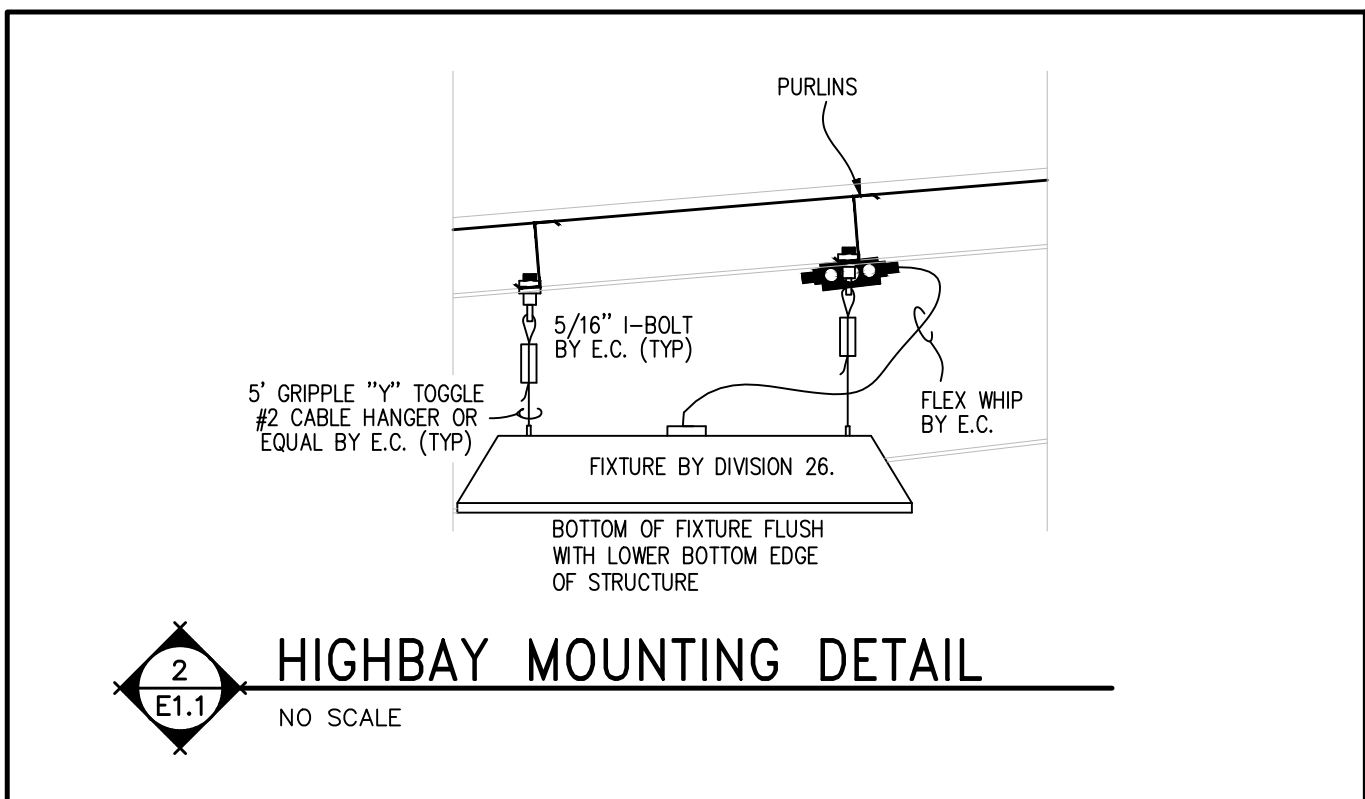
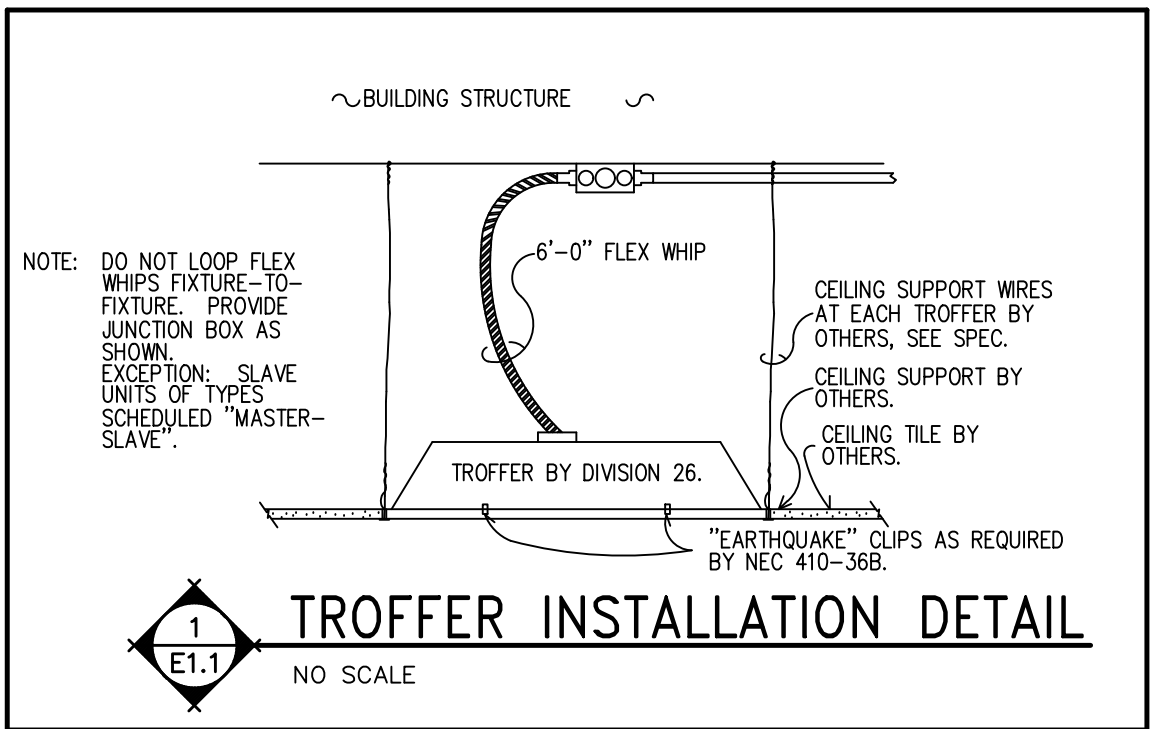
WIRELESS SWITCH SCHEDULE

FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NO.	LUMENS	FINISH	MOUNTING	REMARKS
A1	METALUX	24RLN LD5 55UNV L840 CD 1 WPS	5,500	WHITE	SD	2' X 4' LED TROFFER WITH WIRELESS CONTROLLED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL, 4000K
A2	MARK ARCHITECTURAL	WHSPR SERIES				
A2	METALUX	22RLN LD5 35UNV L840 CD 1 WPS	3,500	WHITE	SD	2' X 2' LED TROFFER WITH WIRELESS CONTROLLED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL, 4000K
B1	MARK ARCHITECTURAL	WHSPR SERIES				
B1	METALUX	24CGTX 55 L840 WPS	5,500	WHITE	SD	2' X 4' LED FLAT PANEL, WIRELESS CONTROLLED DIMMING, AND OCCUPANCY SENSOR, 4000K
E1	LITHONIA	CPX SERIES				
E1	ISOLITE	DTH2-U-BA-MTEB	INTEGRAL LED'S	ALL BRUSHED ALUMINUM	NOTE 1	PHOTOLUMINESCENT UNIVERSAL FACE UNIVERSAL MOUNT LED EXIT WITH, GREEN LETTERS, AND DIE CAST ALUMINUM HOUSING.
E2	EVENLITE	AUR-U-BA-CN				
E2	MULE	TSR-HO-W-SD	2 LED HEADS	WHITE	WALL 8' AFF OR AS HIGH AS POSSIBLE	DECORATIVE EMERGENCY LED FIXTURE WITH SELF-DIAGNOSTICS.
E2	EVENLITE	TEBL6W-SD				
F1	METALUX	4SNV67SL-LN-UNV-L840 CD1	7,000	WHITE	SURFACE CEILING OR CHAIN HUNG TO AVOID MECH EQUIP	4' LED STRIP LIGHT, 4000K
F1	LITHONIA	ZL10 SERIES				
G1	HALO COMMERCIAL	HC6 D010 WFN HM6 3040 840 BT WD H LDN6 SERIES	3,000	SEMI-SPECULAR SILVER	RECESSED CEILING	6" LED DOWNLIGHT WET LOCATION LISTED, 4000K.
K1	MCGRAW-EDISON	GKO PB2B 740 U T4W BZ BPC 120 CBP WDGE 2 SERIES	6,000 LUMENS	DARK BRONZE	WALL MOUNTING	WEDGE SHAPE ARCHITECTURAL LED WALL PACK, 4000K.
K2	MCGRAW-EDISON	GKO PB2B 740 U T4W BZ BPC 120 CBP WDGE 2 SERIES	6,000 LUMENS	DARK BRONZE	WALL MOUNTING	SAME AS K1 BUT WITH EMERGENCY POWER PACK, 4000K.
M1	METALUX	VHB-15-W-UNV-L840-CD-WPS4	15,000 LUMENS	WHITE	SD 2/E1.0	LED HIGH BAY WITH OCCUPANCY SENSOR, 4000K.
M1E	LITHONIA	CPHB SERIES				
M1E	METALUX	VHB-15-W-UNV-L840-EL20W-REM-CD-WPS4	15,000 LUMENS	WHITE	SD 2/E1.0	SAME AS M1 BUT EMERGENCY POWER
M2	LITHONIA	CPHB SERIES				
M2	METALUX	VHB-12-W-UNV-L840-CD-WPS4	12,000 LUMENS	WHITE	SD 2/E1.0	SAME AS M1 BUT 12,000 LUMENS.
M3	LITHONIA	CPHB SERIES				
M3	METALUX	VHB-9-W-UNV-L840-CD-WPS4	9,000 LUMENS	WHITE	SD 2/E1.0	SAME AS M1 BUT 9,000 LUMENS.
M3	LITHONIA	CPHB SERIES				
NOTES:						
1. WALL MOUNT DIRECTLY ABOVE EXIT DOOR WHERE POSSIBLE. CEILING OR END MOUNT IN REMAINING LOCATIONS AS DICTATED BY BUILDING CONDITIONS.						

ELECTRIC HEAT SCHEDULE					
TYPE	MANUFACTURER	CATALOG NO.	WATTAGE	VOLTAGE	REMARKS
FFH-1,2,3	BERKO	FRA4024F	1500	208	FAN FORCED WALL HEATER WITH FINISH AS SELECTED BY THE ARCHITECT. NOTES 1, 2 & 3.
RH-1,2	BERKO	RCC4512C	450	120	RADIANT COVE HEATER WITH FINISH AS SELECTED BY THE ARCHITECT. NOTES 1, 2 & 3.
RH-3	BERKO	RCC12012C	1200	120	RADIANT COVE HEATER WITH FINISH AS SELECTED BY THE ARCHITECT. NOTES 1, 2 & 3.
NOTES:					
1. CONTINGENT UPON MEETING ALL SPECIFICATIONS, THE FOLLOWING HEATER MANUFACTURERS ARE ACCEPTABLE FOR BIDDING: DIMPLEX, OUELLET, QMARK, AND RAYWALL.					
2. PROVIDE TAMPER PROOF COVER, INTEGRAL DISCONNECT, AND INTEGRAL THERMOSTAT.					
3. DISCONNECT SWITCH AND/OR THERMOSTAT SHALL COMPLY WITH NEC "POSITIVE, OFF" REQUIREMENTS.					

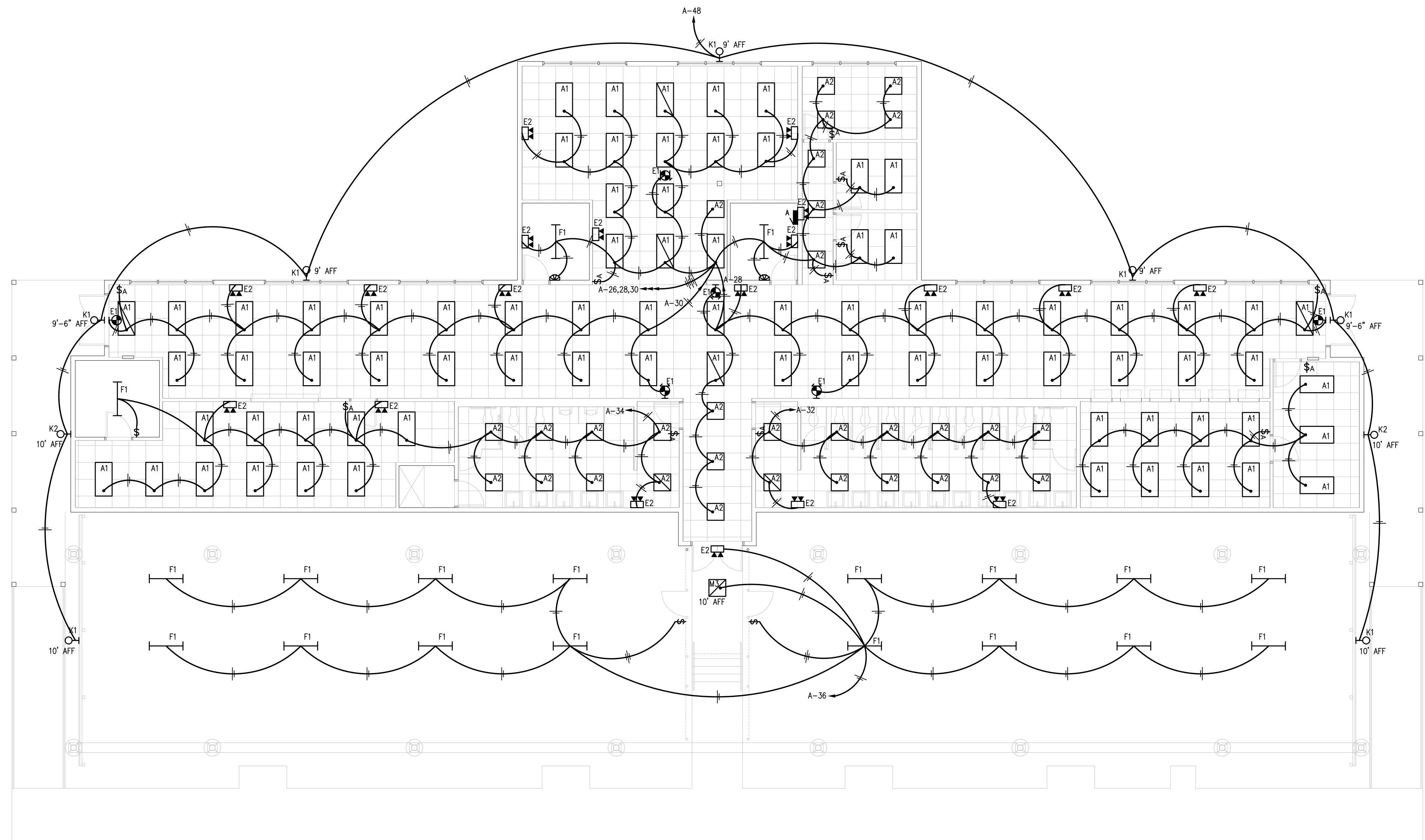
MOTOR & EQUIPMENT SCHEDULE									
EQUIPMENT SERVED	CHARACTERISTICS			DISCONNECT (BY EC)	CONTROLLER (BY EC)	CONTROL INITIATING DEVICE			NOTE
	HP	VOLT	PHASE			DEVICE	FURN	MTD	
CONDENSING UNIT CU-1,2,3	26 MCA	208	1	30A/2P NEMA 3R FDS	INTEGRAL	FURNACE	MC	EC	
EXHAUST FAN EF-1	12.5 MCA	120	1	SINGLE POLE TOGGLE	N/A	SWITCH W/HOOD	MC	EC	1.
ENERGY RECOVERY UNIT ERU-1	15 MCA	120	1	SINGLE POLE TOGGLE	INTEGRAL	CONTINUOUS	MC	MC	
FURNACE F-1,2,3	5 MCA	120	1	SINGLE POLE TOGGLE	INTEGRAL	T-STAT	MC	EC	
DOOR OPENER DO-1,2	FRAC	120	1	SINGLE POLE TOGGLE	INTEGRAL	PUSH BUTTON	GC	EC	
MAKE UP AIR MAU-1	7 MCA	208	3	30A/3P NEMA 3R FDS	INTEGRAL	SWITCH W/HOOD	MC	EC	1.
MIXING VALVE MV-1	1 MCA	120	1	CORD AND PLUG	INTEGRAL	-	-	-	
RECIRC PUMP RCP-1	1 MCA	120	1	CORD AND PLUG	INTEGRAL	MIXING VALVE	MC	EC	
VAPORIZER VAP-1	3000 W	208	1	30A/2P NEMA 3R FDS	INTEGRAL	INTEGRAL	MC	EC	
NOTES:									
1. VERIFY ALL WIRING AND CONTROLS WITH KITCHEN HOOD EXHAUST SYSTEM SUPPLIER.									



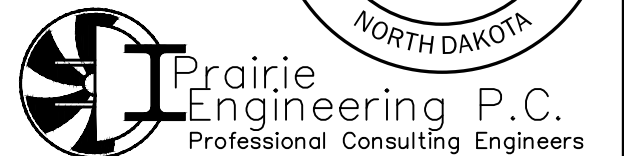


PANEL K SCHEDULE 120/208 VOLTS 3 PH 4 W 100 A. MLO RECESSED EATON POW-R-LINE SERIES											
DESCRIPTION	CKT BKR	GF CI	CKT #	PH	GF CI	CKT #	PH	CKT BKR	GF CI	CKT #	PH
UC FRIDGE	20/1	X	1	A	2	X	20/1	REFRIG MERCH			
PORCORN	20/1	X	3	B	4	X	20/1	EXHAUST HOOD			
CHEESE WARMER	20/1	X	5	C	6	X	45/2	COFFEE BREWER			
HOT FOOD CASE	20/1	X	7	A	8	X	-	COFFEE BREWER			
HOT FOOD CASE	20/1	X	9	B	10	X	20/1	REACH-IN FREEZER			
HOT DOG GRILL	20/1	X	11	C	12	X	20/1	REACH-IN FREEZER			
WORKTOP FREEZER	20/1	X	13	A	14	X	20/1	RANGE			
PIZZA OVEN	20/1	X	15	B	16	X	20/1	GAS FRYER			
PIZZA OVEN	20/1	X	17	C	18	X	20/1	GAS FRYER			
STORAGE RECEPT	20/1	X	19	A	20	X	20/1	SPARE			
POS RECEPT	20/1	X	21	B	22	X	20/1	SPARE			
POS RECEPT	20/1	X	23	C	24	X	20/1	SPARE			
KITCHEN RECEPT	20/1	X	25	A	26	X	20/1	SPARE			
KITCHEN RECEPT	20/1	X	27	B	28	X	20/1	SPARE			
KITCHEN RECEPT	20/1	X	29	C	30	X	20/1	SPARE			
			31	A	32						
			33	B	34						
			35	C	36						
			37	A	38						
			39	B	40						
			41	C	42						
LOAD		CONNECTED				DEMAND		ADJUSTED			
LIGHTING (kVA)		0.0				125%		0.0			
RECEPTACLES (kVA)		0.0				100% / 50%		0.0			
HVAC (kVA)		0.0				100%		0.0			
KITCHEN (kVA)		21.8				100%		21.8			
OTHER (kVA)		0.0				100%		0.0			
TOTAL ADJUSTED kVA										21.8	
TOTAL AMPS										61	

PANEL A SCHEDULE											
120/208 VOLTS 3 PH 4 W 400 A. MCB SURFACE MOUNTED											
EATON POW-R-LINE SERIES											
INCLUDE INTEGRAL 160KA TVSS											
DESCRIPTION	CKT BKR	GF	CI	CT #	PH #	GF	CI	CT #	PH #	CKT BKR	DESCRIPTION
SLOT RECEPT	20/1	-	1	A	2	-	-	30/2	-	CU-1	
SLOT RECEPT	20/1	-	3	B	4	-	-	-	-	CU-1	
SLOT RECEPT	20/1	-	5	C	6	-	-	30/2	-	CU-2	
SLOT RECEPT	20/1	-	7	A	8	-	-	-	-	CU-2	
SLOT RECEPT	20/1	-	9	B	10	-	-	30/2	-	CU-3	
SLOT RECEPT	20/1	-	11	C	12	-	-	-	-	CU-3	
SLOT RECEPT	20/1	-	13	A	14	-	-	20/1	-	FURNACE 1	
SLOT RECEPT	20/1	-	15	B	16	-	-	20/1	-	FURNACE 2	
SLOT RECEPT	20/1	-	17	C	18	-	-	20/1	-	FURNACE 3	
SLOT RECEPT	20/1	-	19	A	20	-	-	20/1	-	RECIRC PUMP	
SLOT RECEPT	20/1	-	21	B	22	-	-	20/2	-	VAPORIZER	
SLOT RECEPT	20/1	-	23	C	24	-	-	-	-	VAPORIZER	
SLOT RECEPT	20/1	-	25	A	26	-	-	20/1	-	SLOT LIGHTS	
SLOT RECEPT	20/1	-	27	B	28	-	-	20/1	-	N HALL LIGHTS	
SLOT RECEPT	20/1	-	29	C	30	-	-	20/1	-	S HALL LIGHTS	
SLOT RECEPT	20/1	-	31	A	32	-	-	20/1	-	WM RR LIGHTS	
SLOT RECEPT	20/1	-	33	B	34	-	-	20/1	-	MEN RR LIGHTS	
ELECTRICAL RECEPT	20/1	-	35	C	36	-	-	20/1	-	UNDR-65STAND LITES	
WEST HALL RECEPT	20/1	-	37	A	38	-	-	20/1	-	EAST 65STAND LITES	
WEST HALL RECEPT	20/1	-	39	B	40	-	-	20/1	-	KITCHEN HOOD LITES	
WEST HALL RECEPT	20/1	-	41	C	42	-	-	20/1	-	WEST 65STAND LITES	
EAST HALL RECEPT	20/1	-	43	A	44	-	-	20/1	-	SPARE	
EAST HALL RECEPT	20/1	-	45	B	46	-	-	20/1	-	SPARE	
EAST HALL RECEPT	20/1	-	47	C	48	-	-	20/1	-	EXTERIOR LIGHTS	
BET RECEPT	20/1	-	49	A	50	-	-	20/1	-	OFFICE 114 HEATER	
BET RECEPT	20/1	-	51	B	52	-	-	20/1	-	OFFICE 113 HEATER	
BET RECEPT	20/1	-	53	C	54	-	-	20/1	-	OFFICE 112 HEATER	
BET/OFFICE RECEPT	20/1	-	55	A	56	-	-	20/3	-	MAU-1	
BET/OFFICE RECEPT	20/1	-	57	B	58	-	-	-	-	MAU-1	
BET/OFFICE RECEPT	20/1	-	59	C	60	-	-	-	-	MAU-1	
OFFICE RECEPT	20/1	-	61	A	62	-	-	20/1	-	EF-1	
OFFICE RECEPT	20/1	-	63	B	64	-	-	20/1	-	ERU-1	
OFFICE RECEPT	20/1	-	65	C	66	-	-	20/1	-	NORTH HEATER	
SPARE	20/1	-	67	A	68	-	-	20/1	-	SOUTH HEATER	
SPARE	20/1	-	69	B	70	-	-	20/1	-	EAST HEATER	
SPARE	20/1	-	71	C	72	-	-	20/1	-	SPARE	
SPARE	20/1	-	73	A	74	-	-	20/1	-	SPARE	
SPARE	20/1	-	75	B	76	-	-	20/1	-	SPARE	
SPARE	20/1	-	77	C	78	-	-	20/1	-	SPARE	
PRESS BOX	100/2	-	79	A	80	-	-	100/3	-	PANEL K	
PRESS BOX	-	-	81	B	82	-	-	-	-	PANEL K	
SPARE	-	-	83	C	84	-	-	-	-	PANEL K	
LOAD	CONNECTED		DEMAND		ADJUSTED						
LIGHTINGS (kVA)	11.9		125%		14.9						
RECEPTACLES (kVA)	14.8		100% / 50%		12.4						
HVAC (kVA)	35.6		100%		35.6						
KITCHEN (kVA)	21.8		65%		14.2						
OTHER (kVA)	6.0		100%		6.0						
TOTAL ADJUSTED kVA							83.0				
TOTAL AMPS							230				



1
E2.0
LIGHTING PLAN
1/8" = 1'
N

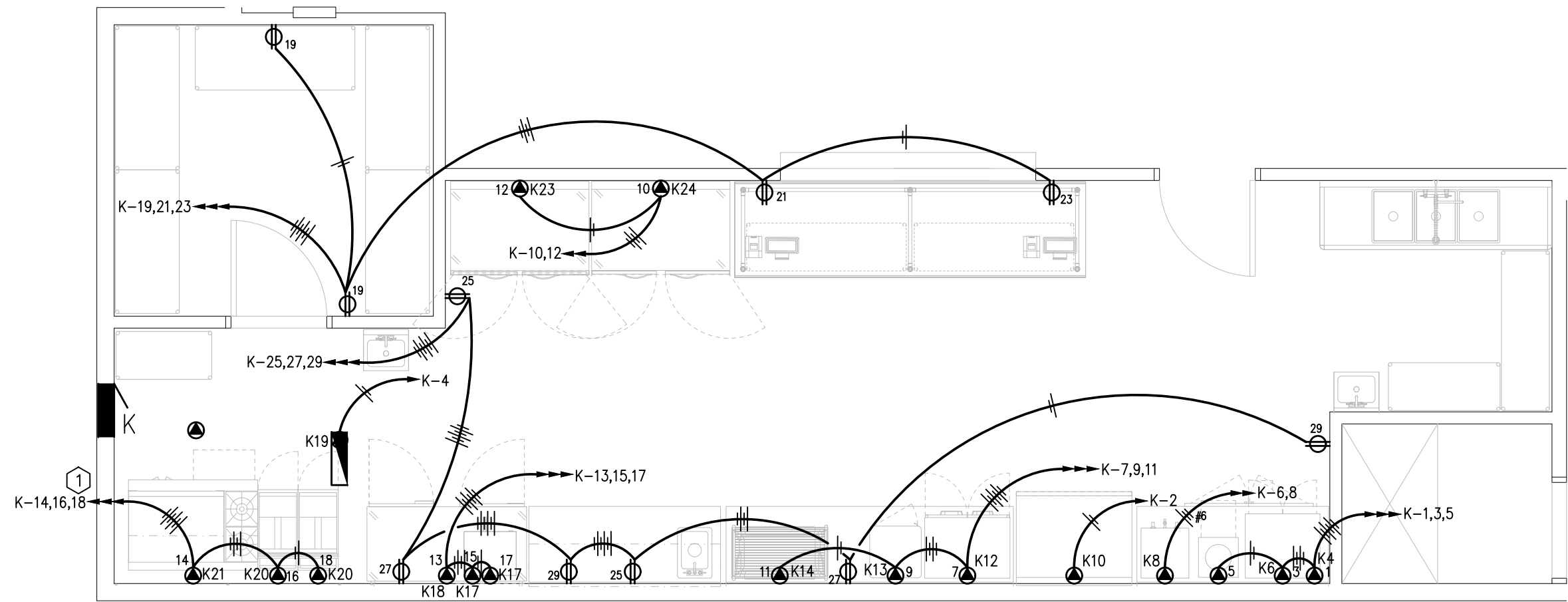


CHIPPEWA DOWNS GRANDSTAND
BELCOURT, NORTH DAKOTA

E
2.0

JIRAN ARCHITECTS & PLANNERS P.C.
1431 INTERSTATE LOOP SUITE A BISMARCK, ND 58503
PHONE : 701-258-7771 FAX : 701-258-1672

PROJECT NO.	PE-#20028
DRAWN BY	TCK
CHECKED BY	JH
DATE	08/21/2026
REVISION	CD



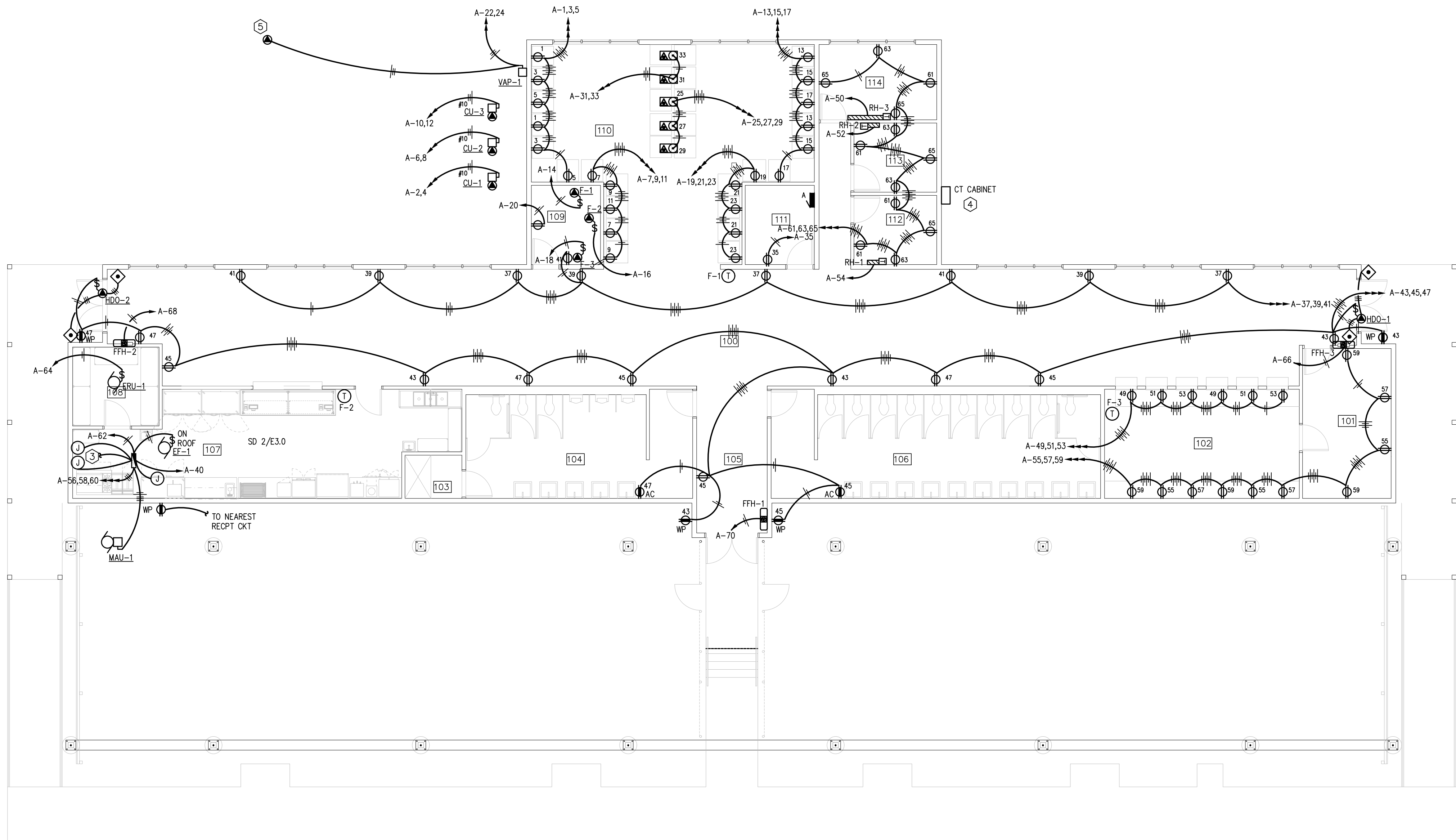
2
E3.0
ENLARGED CONCESSIONS PLAN
1/4" = 1'

FOOD SERVICE EQUIPMENT SCHEDULE						
DESIG.	EQUIPMENT SERVED	CHARACTERISTICS			CONNECTION	
		LOAD	VOLTAGE	PHASE	RECEPT.	DIRECT
K4	UNDER-COUNTER REFRIGERATOR	360W	120	1	5-15R	
K6	POPCORN POPPER	1610W	120	1	5-15R	
K7	NACHO CHEESE WARMER	362W	120	1	5-15R	
K8	COFFEE BREWER	6890W	208	1		X
K10	REFRIGERATED MERCHANDISER	300W	120	1	5-15R	
K12	HOT FOOD DISPLAY CASE	1790W	120	1	5-15R	
K13	HOT FOOD DISPLAY CASE	1390W	120	1	5-15R	
K14	HOT DOG GRILL	1150W	120	1	5-15R	
K17	PIZZA OVEN	1500W	120	1	5-15R	
K18	WORKTOP FREEZER	840W	120	1	5-15R	
K19	EXHAUST HOOD	1200W	120	1		X
K20	GAS FRYER	120W	120	1	5-15R	
K21	RANGE	720W	120	1	5-15R	
K23	REACH-IN FREEZER	1320W	120	1	5-15R	
K24	REACH-IN REFRIGERATOR	650W	120	1	5-15R	

NOTES:

- FOOD SERVICE EQUIPMENT NUMBERS CO-INCIDE WITH EQUIPMENT SCHEDULE AS SHOWN ON ARCHITECTURAL DRAWINGS.
- EC SHALL BE RESPONSIBLE FOR OPERATIONAL CONNECTION OF ALL FOOD SERVICE EQUIPMENT.

- KEYNOTES**
- PROVIDE RELAY TO OPEN CIRCUIT THE UNDERHOOD CIRCUITS UPON KITCHEN HOOD FIRE ACTIVATION. USE NO/NC CONTACT OFF KITCHEN HOOD PANEL AS REQUIRED.
 - DISCONNECT EXISTING POWER FROM EXISTING BUILDING FOR DEMOLITION BY OTHERS. SEE CIVIL DRAWING C2.0.
 - FIELD WIRING TO RANGE HOOD LIGHTS, ROOM TEMP SENSOR, PLENUM SENSOR, PSP SENSOR, AND MANUAL ACTIVATION DEVICE. ALL ACCESSORY DEVICES SUPPLIED OTHERS, INSTALLED BY EC.
 - NEW TRANSFORMER LOCATION IS APPROXIMATELY 300 FEET TO THE NORTH. SEE CIVIL DRAWING C4.0 FOR EXISTING/NEW TRANSFORMER LOCATION. VERIFY EXACT LOCATION WITH UTILITY AS REQUIRED.
 - LP VAPORIZER BY MC INSTALLED BY EC. SEE SHEET 1/M001 FOR PROPANE TANK LOCATIONS. NOTE THAT A CLASS I, DIV 2 ZONE EXISTS AROUND THE VAPORIZER AND HAS A RADIUS OF 15 FEET.



1
E3.0
POWER PLAN
1/8" = 1'

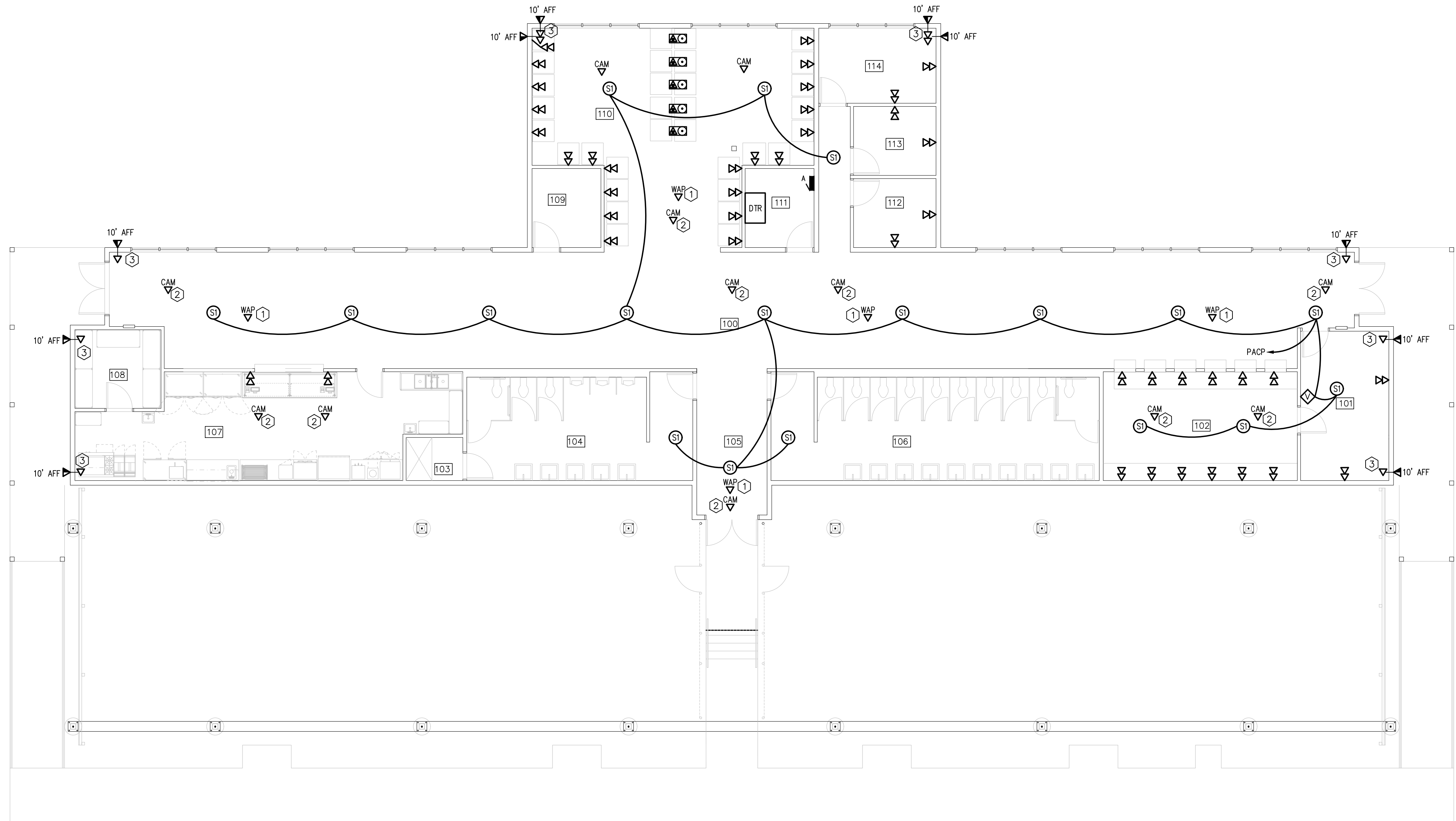


CHIPPEWA DOWNS GRANDSTAND
BELCOURT, NORTH DAKOTA

E
3.0

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PROJECT NO. PE-120028
DRAWN BY TCG
CHECKED BY JIH
DATE 08/21/2026
REVISION CD



- KEYNOTES**
- 1 PROVIDE ONE NETWORK DROP AT THIS LOCATION ABOVE ACCESSIBLE CEILING SPACE OR AT THE CEILING STRUCTURE. PROVIDE TEN (10) FOOT OF EXCESS SERVICE LOOP FOR WIRELESS ACCESS POINT. WIRELESS ACCESS POINT SUPPLIED AND INSTALLED BY OTHERS. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
 - 2 PROVIDE ONE NETWORK DROP AT THIS LOCATION ABOVE ACCESSIBLE CEILING SPACE OR AT THE CEILING STRUCTURE. PROVIDE TEN (10) FOOT OF EXCESS SERVICE LOOP FOR SURVEILLANCE EQUIPMENT. SURVEILLANCE EQUIPMENT SUPPLIED AND INSTALLED BY OTHERS. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
 - 3 PROVIDE NETWORK DROP(S) AT THIS LOCATION ABOVE ACCESSIBLE CEILING SPACE OR AT THE CEILING STRUCTURE. PROVIDE TEN (10) FOOT OF EXCESS SERVICE LOOP FOR SURVEILLANCE EQUIPMENT. PROVIDE SINGLE GANG ROUGH-IN BOX ON EXTERIOR WALL FOR FUTURE SURVEILLANCE EQUIPMENT AND PROVIDE WEATHER PROOF COVERS AND CAPPED/SEALED CONDUIT ENDS AS REQUIRED. SURVEILLANCE EQUIPMENT SUPPLIED AND INSTALLED BY OTHERS.
 - 4 PROVIDE

SYSTEMS PLAN
1/8" = 1'
N



Diagram illustrating the internal components and wiring connections of a pre-wired control cabinet. The cabinet is shown with its front panel removed, revealing the internal layout. Key components and connections include:

- Top Section:** Contains two terminal blocks labeled **PACP** and **DTR-W**. Above them are two circular components, likely relays or contactors.
- Bottom Section:** Contains two **PACP** terminal blocks, each connected to a motor symbol (represented by a circle with a triangle inside).
- Wiring:**
 - Wiring is shown connecting the top **PACP** and **DTR-W** blocks to the bottom **PACP** blocks.
 - Wiring also connects the top **PACP** block to the bottom **PACP** block.
 - Wiring connects the top **DTR-W** block to the bottom **PACP** block.
 - Wiring connects the top **DTR-W** block to the bottom **PACP** block.
- Labels and Markings:**
 - 1**: Points to the top **PACP** and **DTR-W** blocks.
 - 2**: Points to the bottom **PACP** blocks.
 - 3**: Points to the circular components above the top **PACP** and **DTR-W** blocks.
 - PREWIRED PANEL**: Label on the right side of the cabinet.

2
E5.0

ENLARGED PRESS BOX PLAN

1/4" = 1'

3

- ① MOUNT DATA RACK ON WALL, HIGH AS POSSIBLE. MOUNT RECEPTACLE INSIDE DATA RACK, AT THE BOTTOM.
- ② SINGLE GANG DATA OUTLET AT 7" AFF WITH MALE TERMINATION FOR FUTURE SURVEILLANCE CAMERA. PROVIDE WEATHERPROOF BLANK PLATE.
- ③ PROVIDE 20/1 CIRCUIT BREAKER IN PANEL AS REQUIRED.
- ④ PROVIDE STRUT TO SPAN PURLING FOR SPEAKER MOUNTING.

