



AIA® Document G710™ – 2017

Architect's Supplemental Instructions

PROJECT: *(name and address)*
57-21113-00 - Rebid Dutchess Stadium
New Left Field Clubhouse, Seating Bowl,
& Restroom Building

CONTRACT INFORMATION:
Contract For:

ASI INFORMATION:
ASI Number: 001

Date:

Date: April 7, 2023

OWNER: *(name and address)*
Dutchess County
22 Market St
Poughkeepsie, NY 12601

ARCHITECT: *(name and address)*
DLR Group inc.,
33 East 33rd Street Suite 401
New York, NY 10016

CONTRACTOR: *(name and address)*
Piazza, Inc.
3 W Stevens Ave
Hawthorne, NY 10532

The Contractor shall carry out the Work in accordance with the following supplemental instructions without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time.
(Insert a detailed description of the Architect's supplemental instructions and, if applicable, attach or reference specific exhibits.)

Modify the Contract Documents per the attachments and generally as follows:

1. Sheet G0.00.ii - COVER SHEET
 - a. Modifications per the attached sheet G0.00.ii.
2. Sheet A1.1A.ii - FLOOR PLAN - AREA A - LEVEL 1
 - a. Modifications per the attached sheet A1.1A.ii.
3. Sheet A11.3.ii - INTERIOR DETAILS
 - a. Modifications per the attached sheet A11.3.ii.
4. Sheet A11.4.ii - INTERIOR DETAILS
 - a. Modifications per the attached sheet A11.4.ii.
5. Sheet A13.2A.ii - FIRST FLOOR FF&E PLAN - AREA A
 - a. Modifications per the attached sheet A13.2A.ii.
6. Sheet A13.3A.ii - SECOND FLOOR FF&E PLAN - AREA A
 - a. Modifications per the attached sheet A13.3A.ii.
7. Sheet S0.1.ii - STRUCTURAL NOTES
 - a. Modifications per the attached sheet S0.1.ii.
8. Sheet S1.1.ii - FOUNDATION PLAN
 - a. Modifications per the attached sheet S1.1.ii.
9. Sheet S3.2.ii - FOUNDATION TYPICAL DETAILS
 - a. Modifications per the attached sheet S3.2.ii.
10. Sheet P1.1A.ii - UNDERGROUND PLUMBING PLAN - AREA A
 - a. Modifications per the attached sheet P1.1A.ii.
11. Sheet P2.1A.ii - PLUMBING PLAN - AREA A - LEVEL 1
 - a. Modifications per the attached sheet P2.1A.ii.
12. Sheet P6.2.ii - PLUMBING SCHEDULES
 - a. Modifications per the attached sheet P6.2.ii.
13. Sheet M0.1.ii - MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES
 - a. Modifications per the attached sheet M0.1.ii.
14. Sheet M8.2.ii - MECHANICAL SCHEDULES
 - a. Modifications per the attached sheet M8.2.ii.
15. Sheet E0.1.ii - ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES
 - a. Modifications per the attached sheet E0.1.ii.
16. Sheet E1.2A.ii - LIGHTING PLAN - AREA A - LEVEL 2
 - a. Modifications per the attached sheet E1.2A.ii.
17. Sheet E7.1.ii - ELECTRICAL SCHEDULES

- a. Modifications per the attached sheet E7.1.ii.
 - 18. Section 088000 Glazing
 - a. Modifications per the attached Section 088000 Glazing
-

ISSUED BY THE ARCHITECT:

DLR Group inc., a New York corporation

ARCHITECT *(Firm name)*



SIGNATURE

Bob Carlson, AIA, LEED AP,
Principal

PRINTED NAME AND TITLE

April 07, 2023

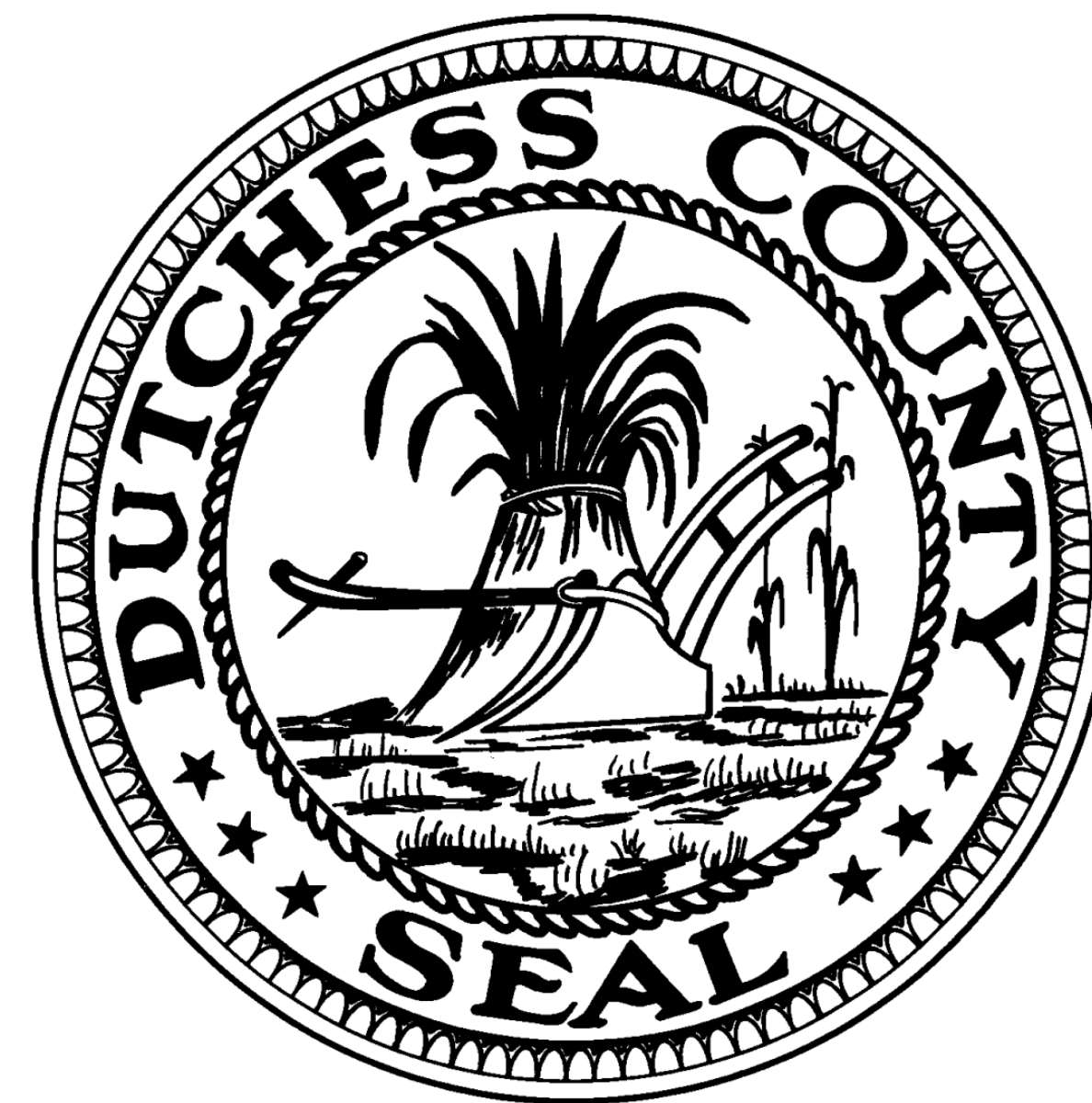
DATE

REBID DUTCHESS STADIUM NEW LEFT FIELD CLUBHOUSE, SEATING BOWL, & RESTROOM BUILDING

1500 ROUTE 9D FISHKILL, NY 12590

SINGLE PRIME CONTRACT RFB-DCB-18-22

NOVEMBER 4, 2022



MARCUS J. MOLINARO
DUTCHESS COUNTY EXECUTIVE

ROBERT H. BALKIND, P.E.
DUTCHESS COUNTY DPW COMMISSIONER

OWNER: DUTCHESS COUNTY
22 MARKET STREET POUGHKEEPSIE, NY 12601

PROJECT LOCATION MAP



ARCHITECTURE & INTERIOR DESIGN
MECHANICAL & PLUMBING ENGINEERING
ELECTRICAL ENGINEERING
AUDIOVISUAL



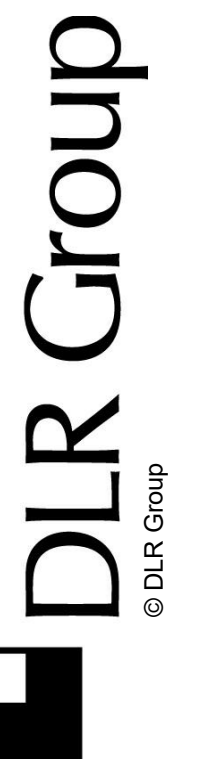
CIVIL ENGINEERING



LANDSCAPE ARCHITECTURE



110 S. 14th Street, Suite 200
Lincoln, NE 68508
Tel 402.475.1787

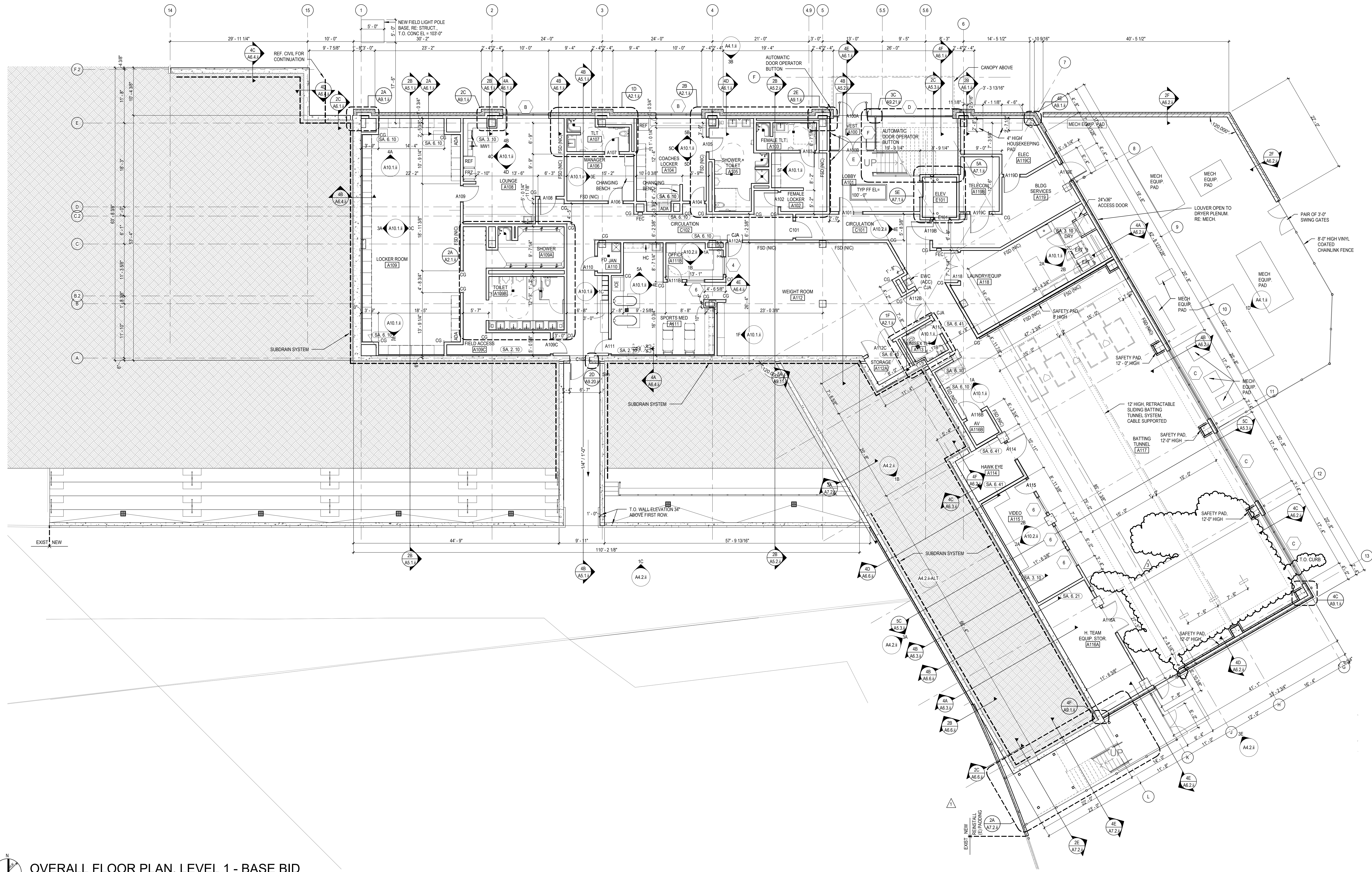


REBID DUTCHESS STADIUM NEW LEFT FIELD CLUBHOUSE, SEATING BOWL, & RESTROOM BUILDING
OWNER: DUTCHESS COUNTY, 22 MARKET STREET POUGHKEEPSIE, NY 12601

BID SET
11.04.22
REVISIONS
1 CONSTRUCTION DOCS 03.05.23
2 ASI 04.07.23

57-21113-00
COVER SHEET

GO.00.ii



OVERALL FLOOR PLAN, LEVEL 1 - BASE BID
SCALE: 1/8" = 1'-0"

REFERENCE KEYNOTES

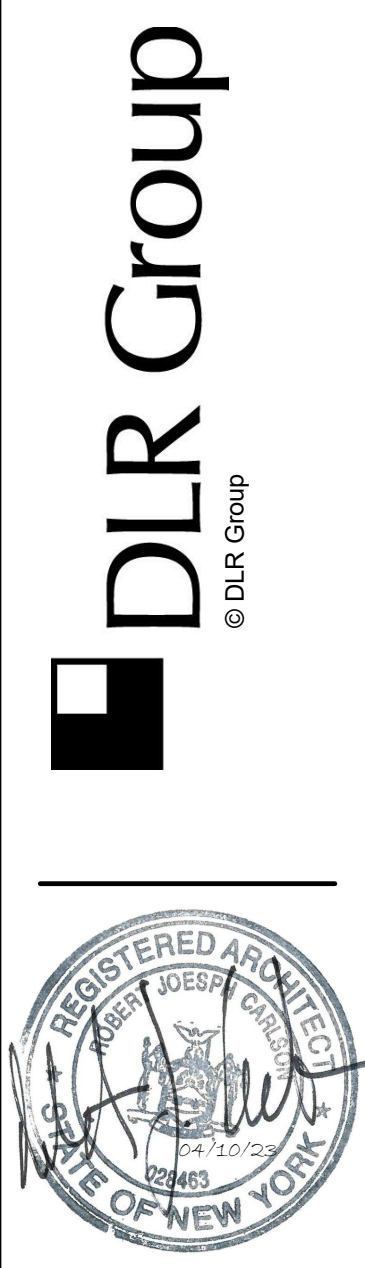
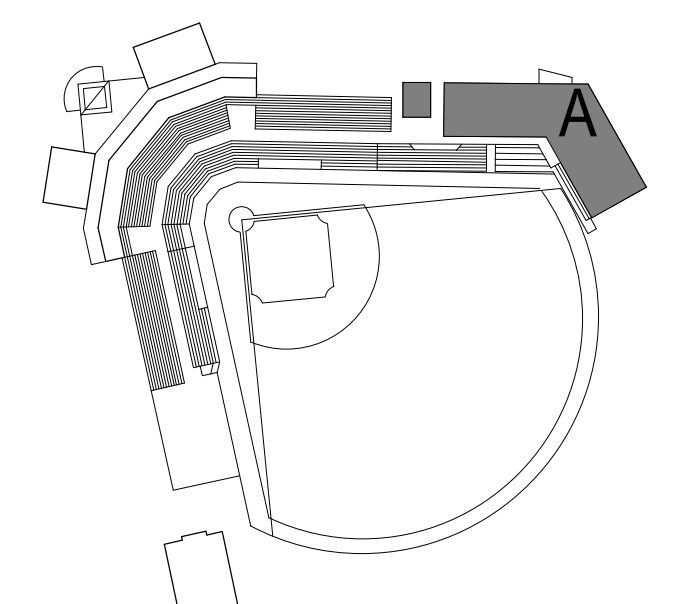
⑥ SHEET NOTES

GENERAL ARCHITECTURAL NOTES

KEY PLAN

- 1 INFILL OR PATCH AND REPAIR CONCRETE SLAB AREA
- 2 PATCH AND REPAIR WALL
- 3 REFERENCE FINISH PLANS FOR CONCRETE JOINTING PATTERN
- 4 FULLY-GROUT COLLAR JOINT

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS: (XX, X, XX). SEE SHEET A4.1 FOR WALL TYPES. ALL INTERIOR PARTITIONS ARE WALL TYPE SA 6.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF WOOD TRUSS BOTTOM CHORD ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSION LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET A11.1.
5. SEE STRUCTURAL DRAWINGS FOR BRACING OF NON-LOAD BEARING MASONRY WALLS.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS. IE. TOILET ACCESSORIES, CASWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CIA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. "MB" AND "TB" INDICATE MARKER BOARDS AND TACK BOARDS ON PLANS. THE LENGTH PRECEDES THE DESIGNATION (EXAMPLE 16 MB). ALL BOARDS ARE 4'-0" TALL. SEE WALL ELEVATIONS OR SPECIFICATIONS FOR MOUNTING HEIGHT.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS.
13. DEPRESS CONCRETE SLAB @ ALL SHOWERS 1/2". RE: STRUCTURAL DETAILS. SLOPE GROUT FILL 1/4" PER FOOT TO DRAIN.



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1500 ROUTE 90, FISHKILL, NY 12590

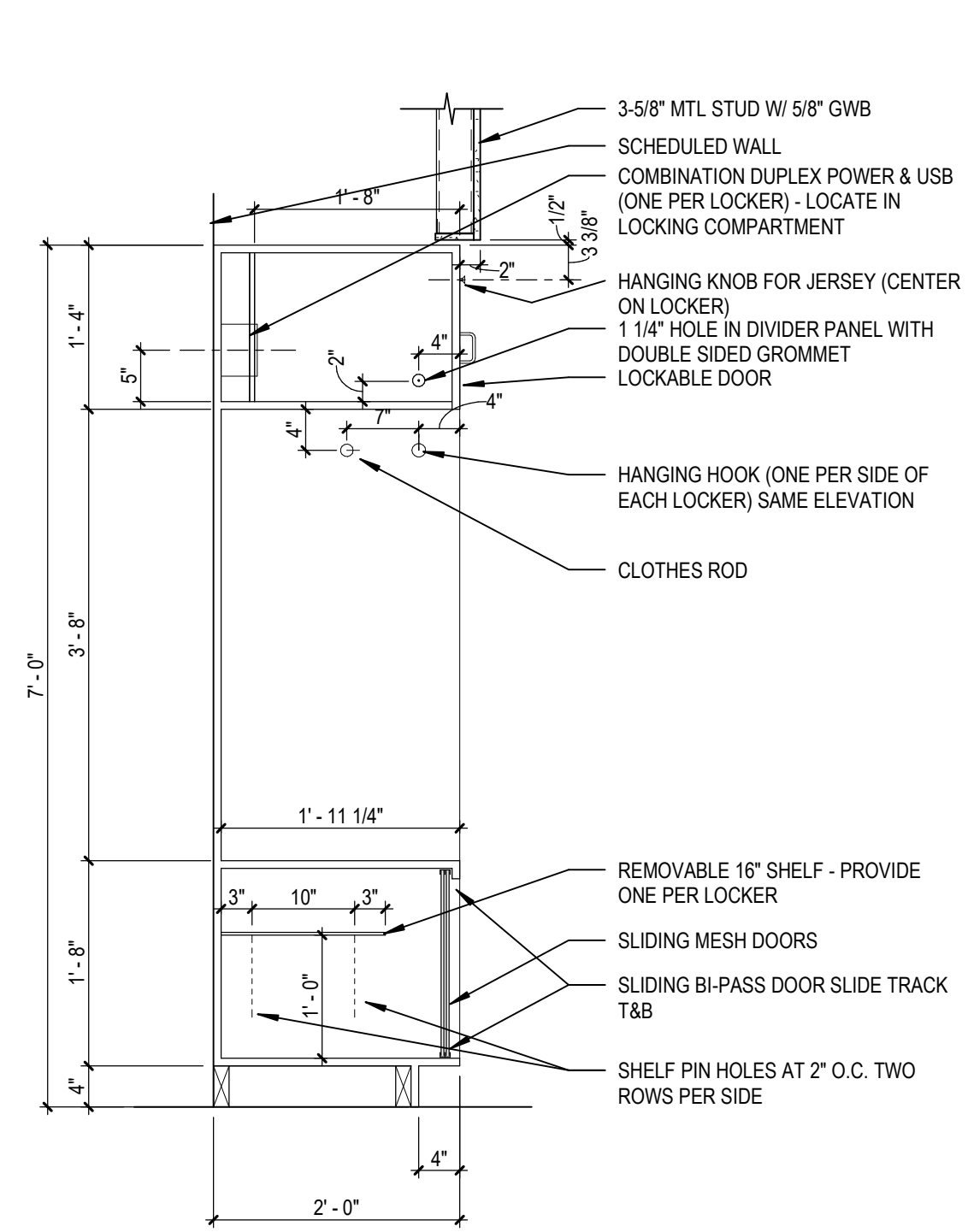
BID SET
11.04.22
REVISIONS
1 ADD 01 12.09.22
2 CONSTRUCTION DOCS 03.06.23
3 A6.01 04.07.23

57-21113-00
FLOOR PLAN - AREA A - LEVEL 1

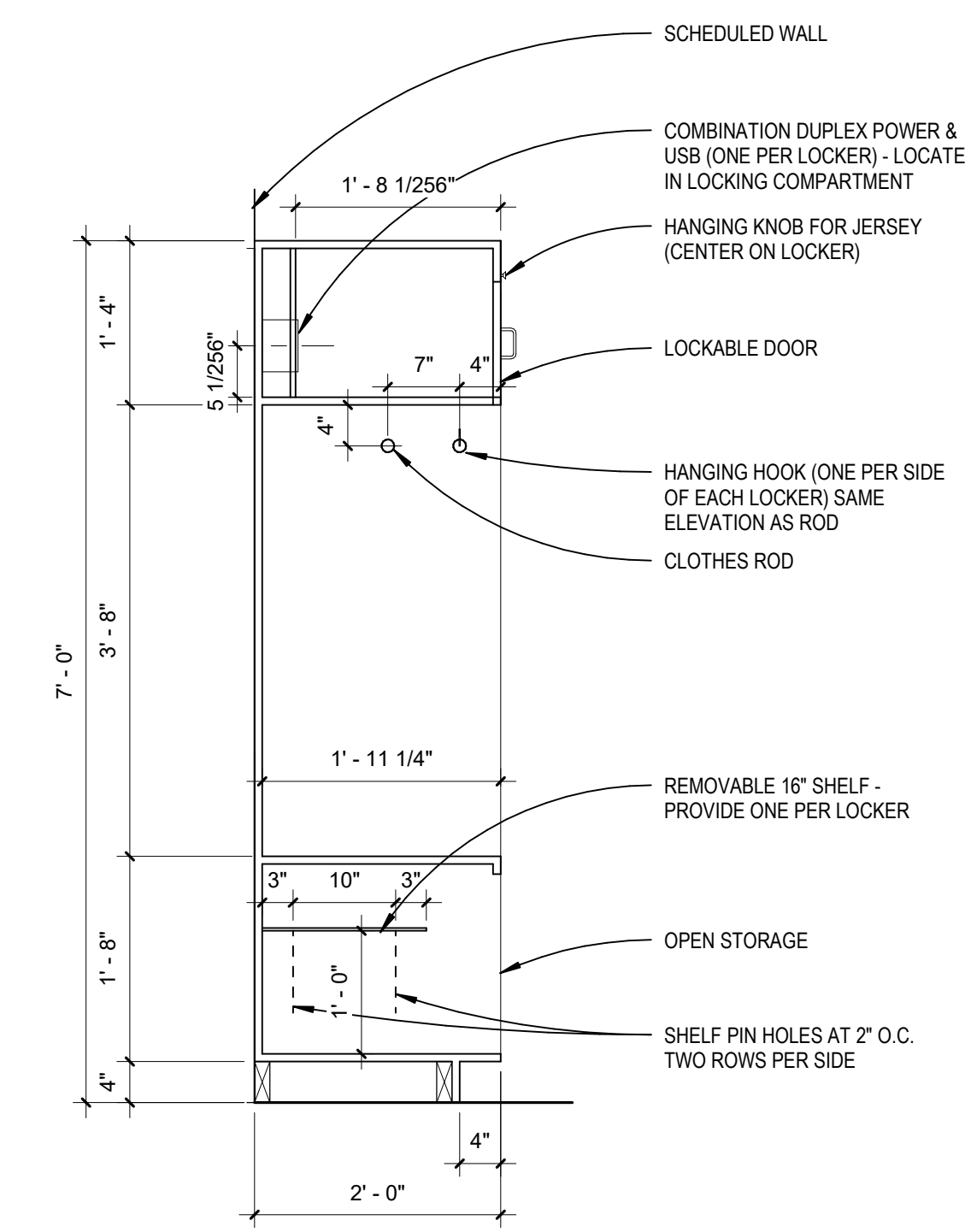
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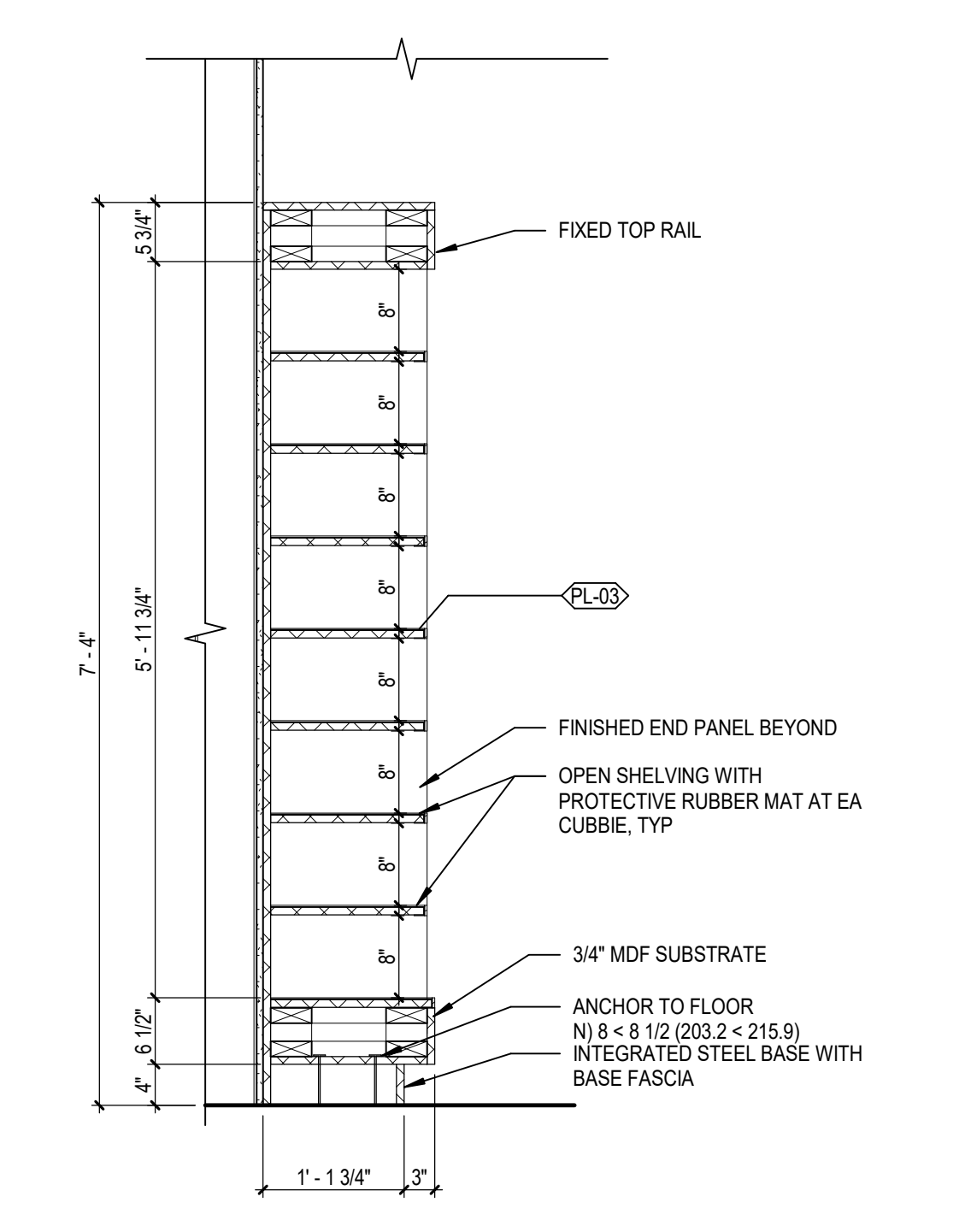
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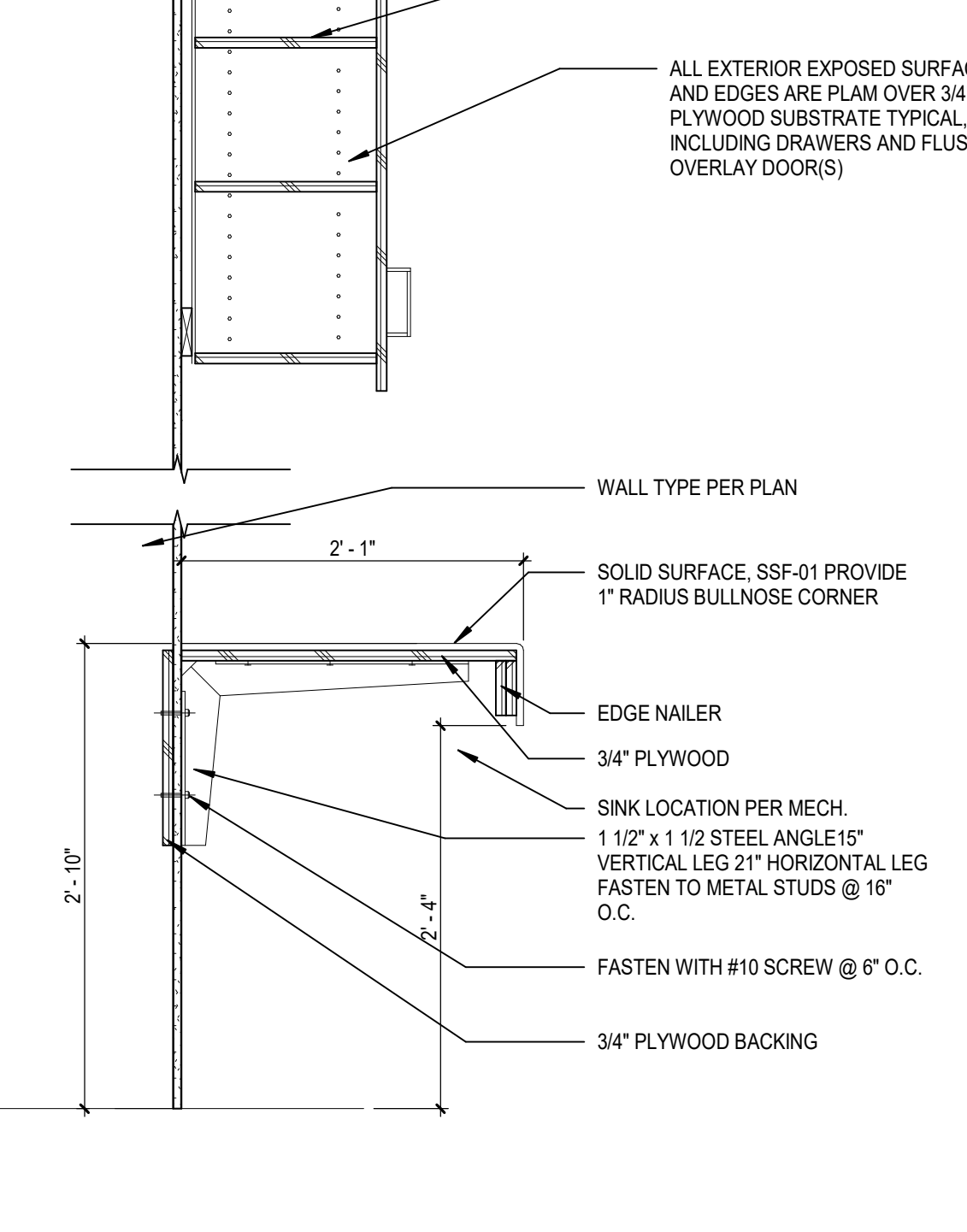
1A LOCKER SECTION DETAIL, TYP.
A11.3.ii SCALE: 3/4\" = 1'-0\"



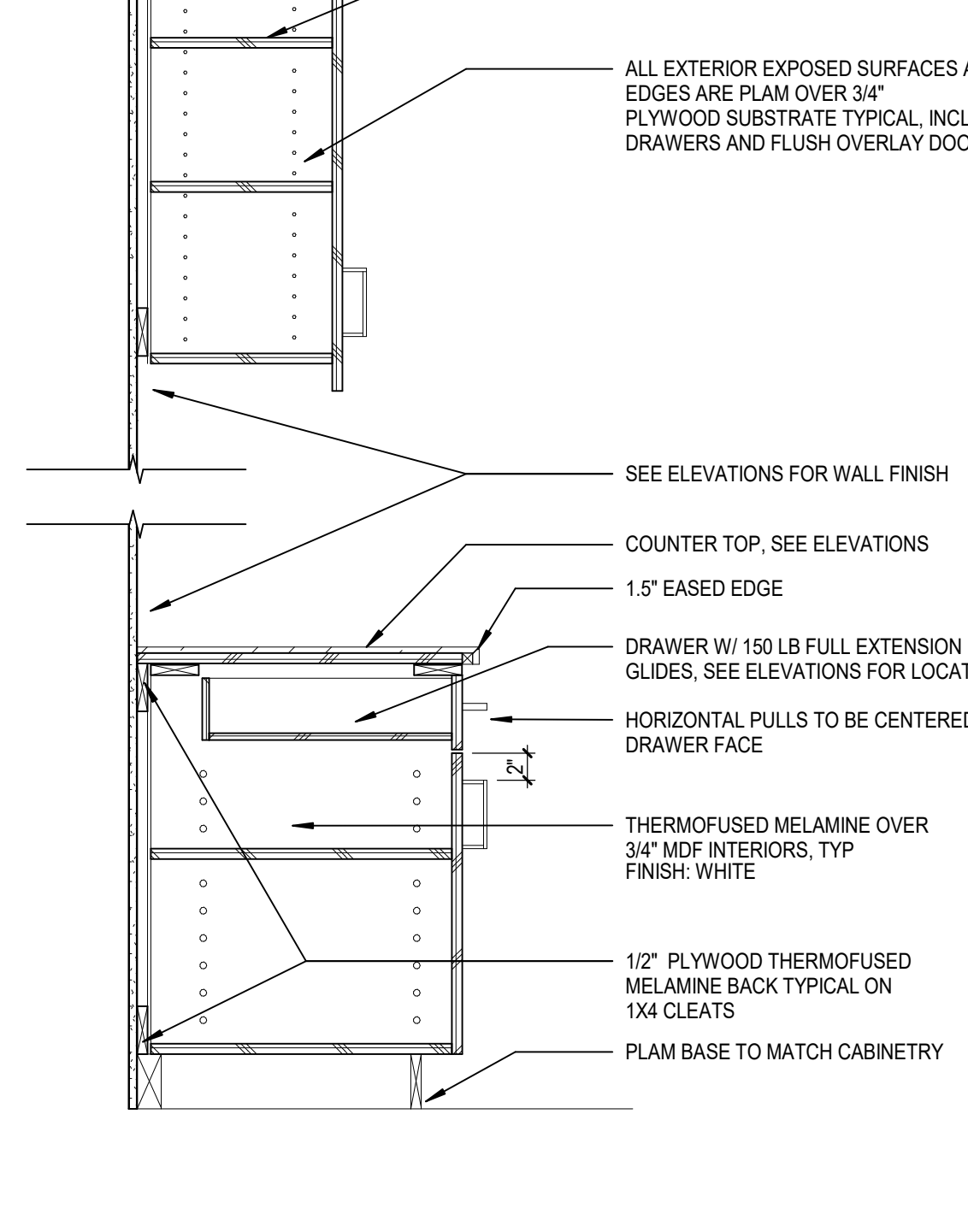
2B LOCKER SECTION DETAIL, UMPIRE LOCKER
A11.3.ii SCALE: 3/4\" = 1'-0\"



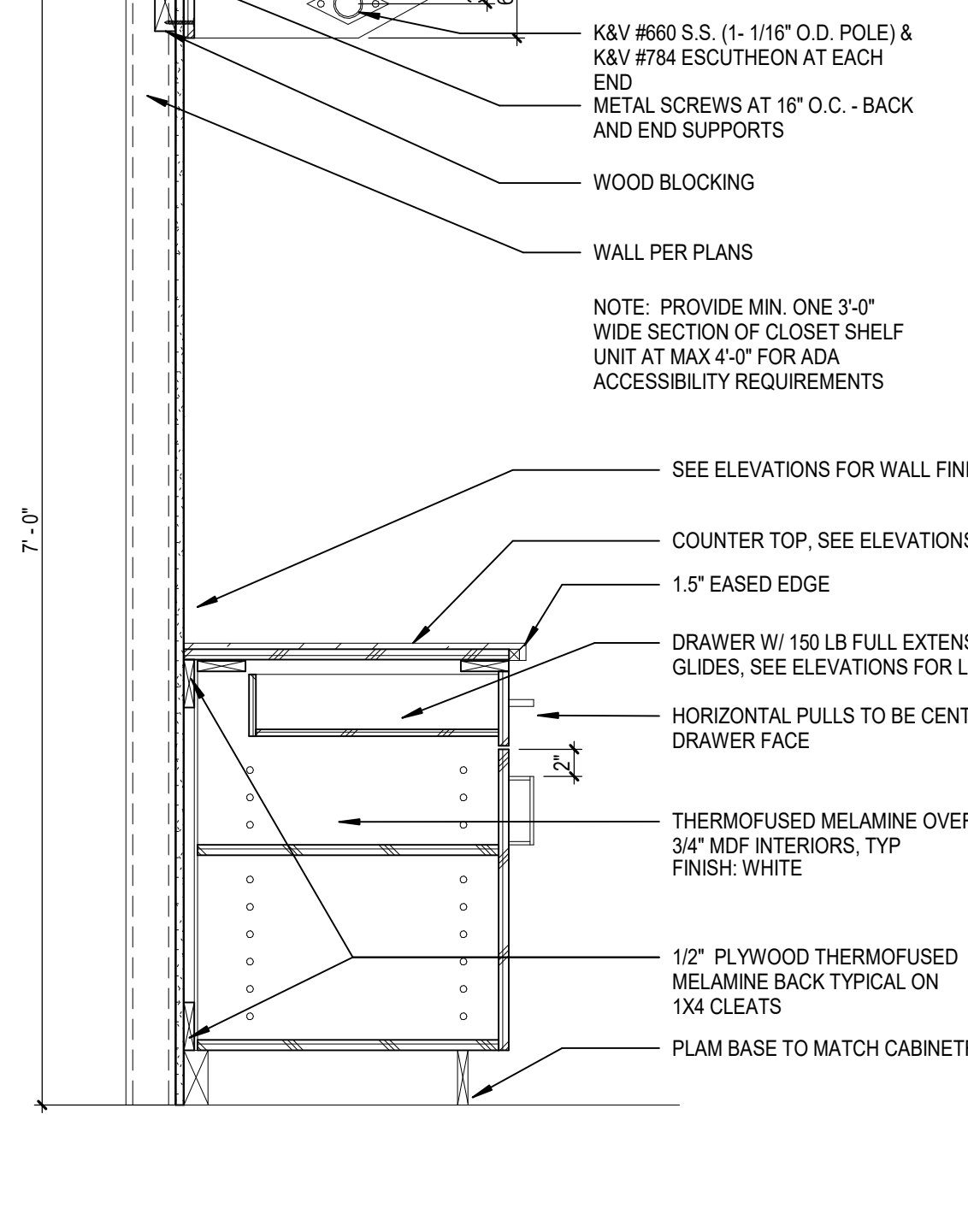
2C SHOES CUBBIES SECTION
A11.3.ii SCALE: 3/4\" = 1'-0\"



2D UPPER CABINET AND LOWER WORK SURFACE
A11.3.ii SCALE: 1\" = 1'-0\"

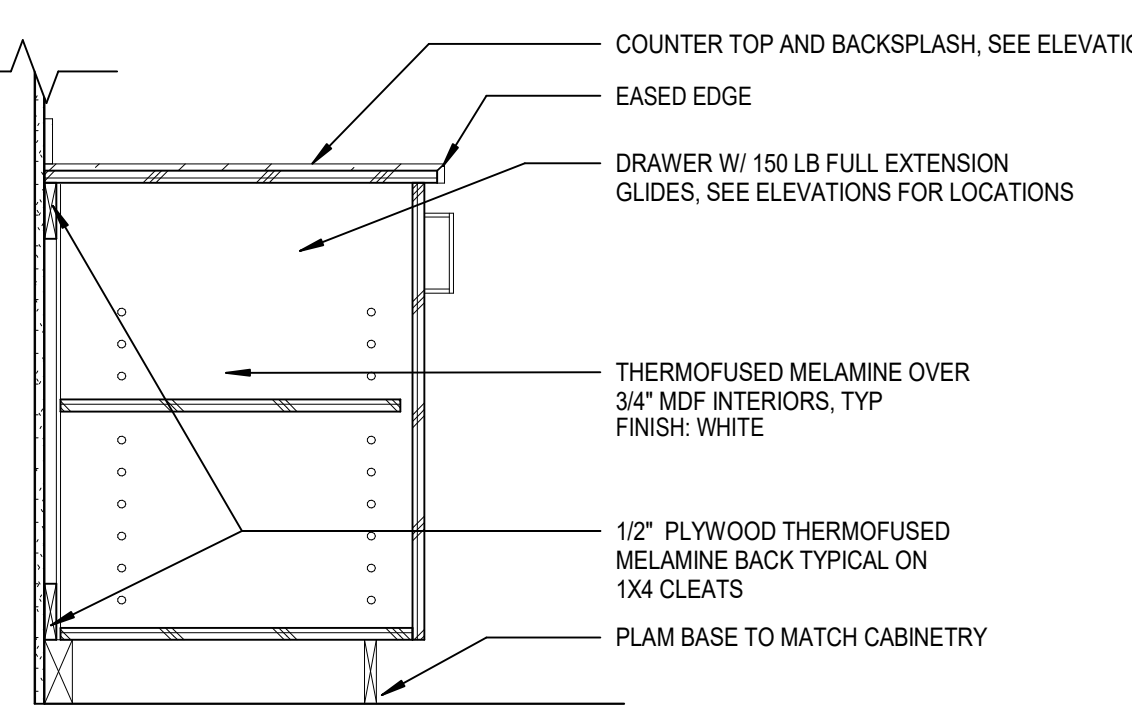


2E UPPER AND LOWER CABINET - DRAWER BASE
A11.3.ii SCALE: 1\" = 1'-0\"

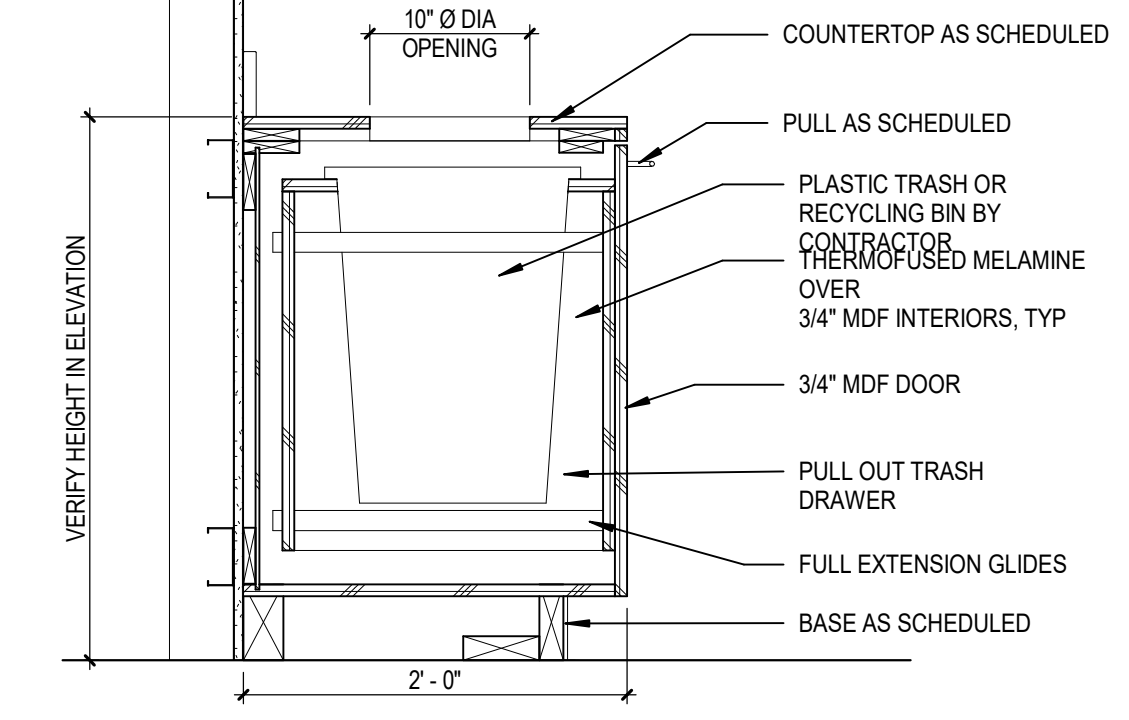


2F BASE CABINET AND COAT RACK
A11.3.ii SCALE: 1\" = 1'-0\"

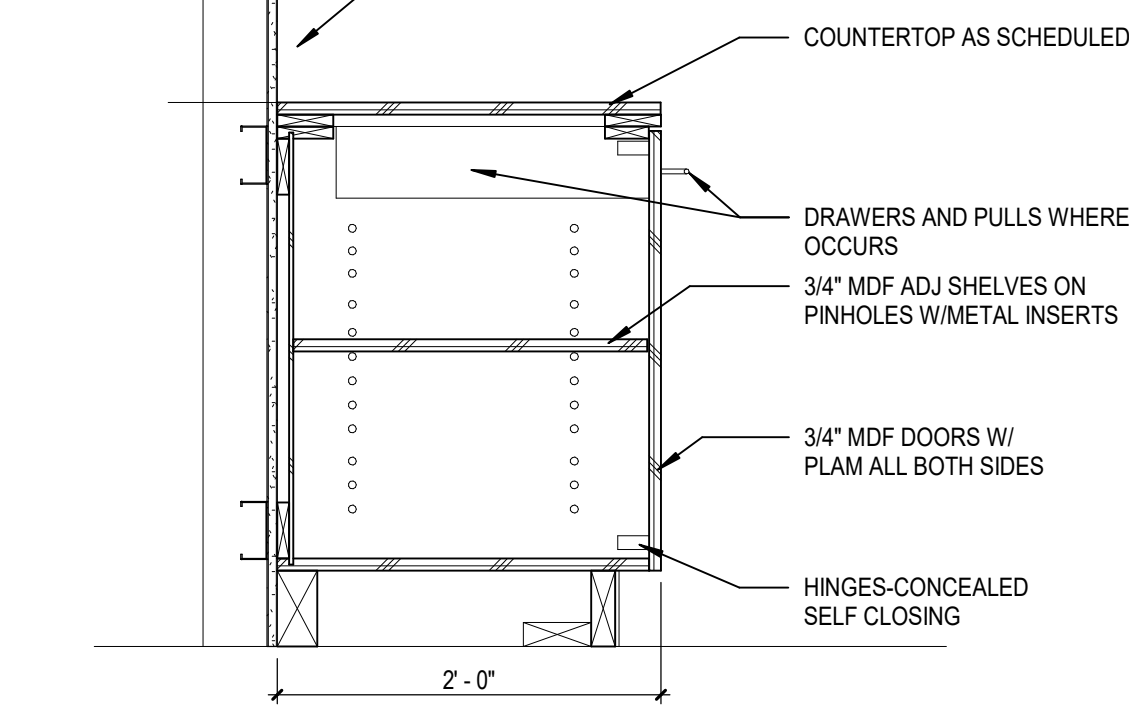
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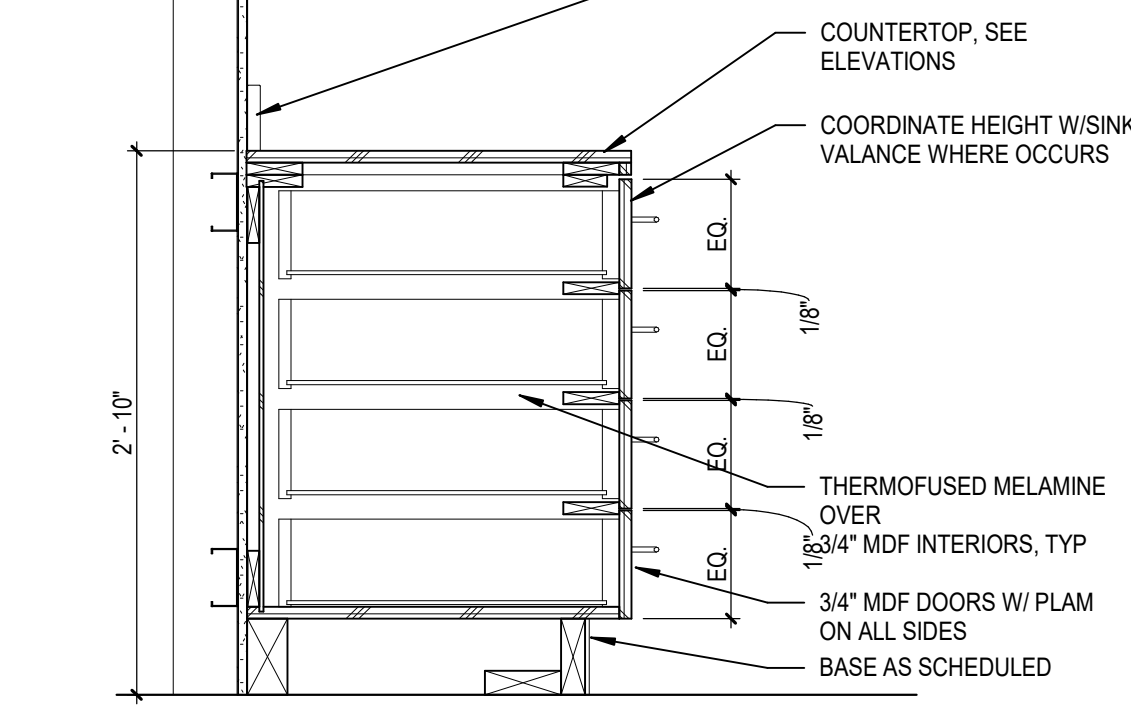
3A LOWER CABINET
A11.3.ii SCALE: 1\" = 1'-0\"



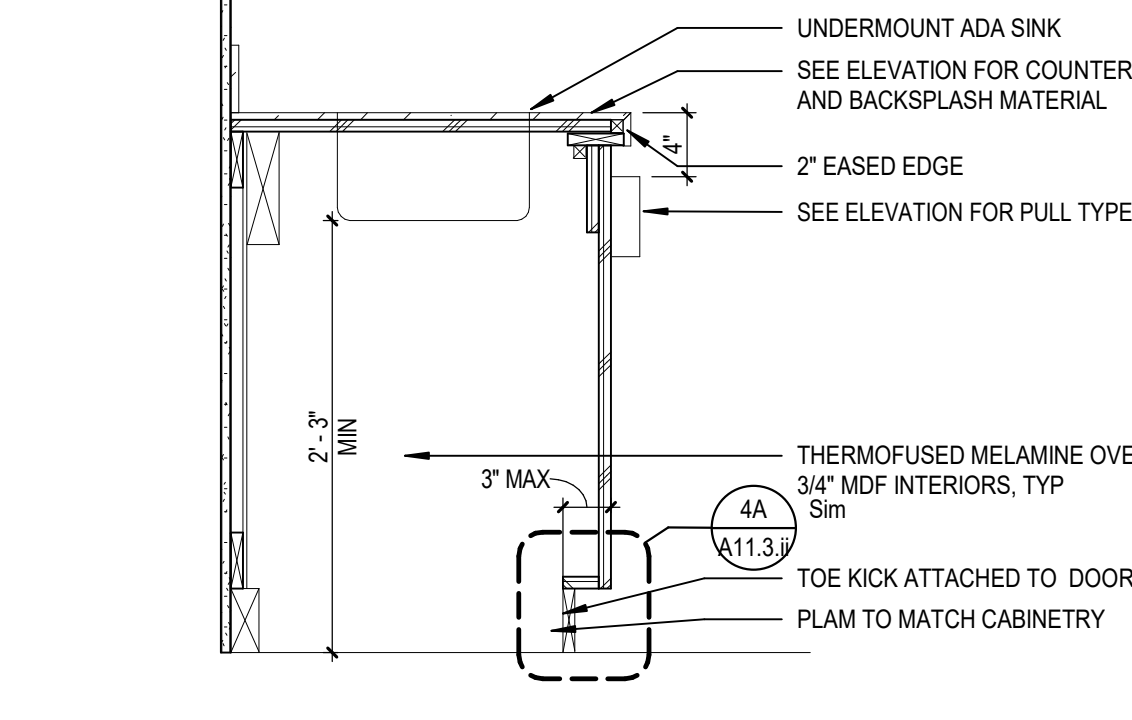
3B PULL-OUT TRASH DRAWER W/COUNTER GROMMET
A11.3.ii SCALE: 1\" = 1'-0\"



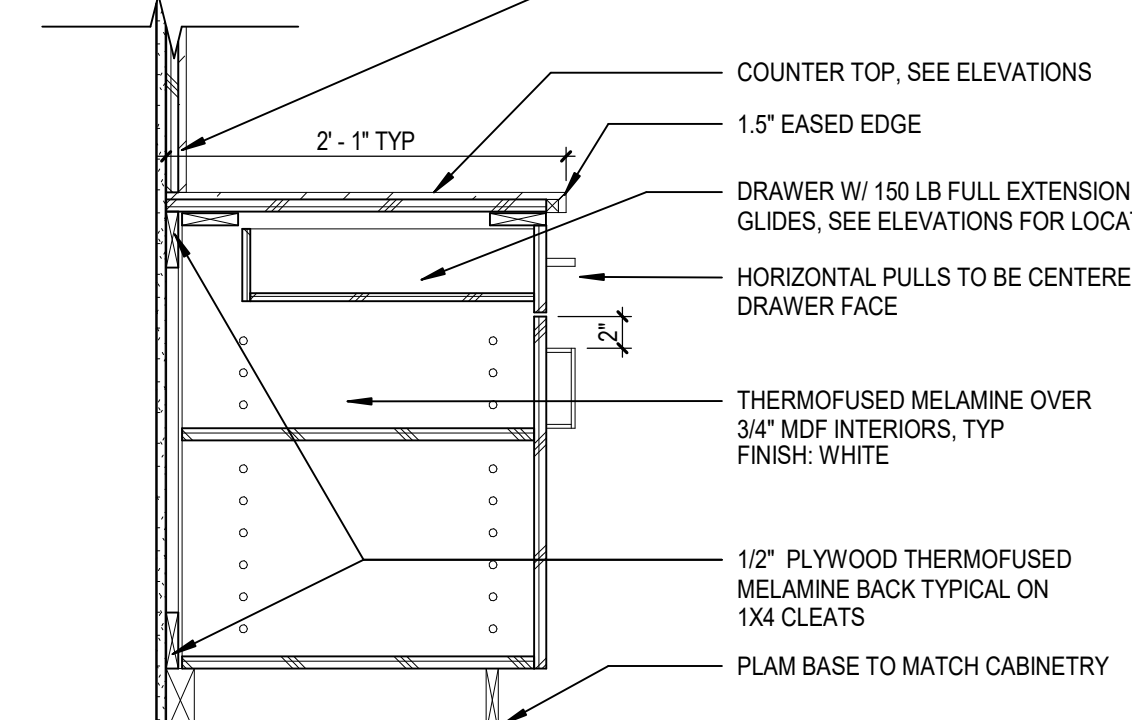
3C LOWER CABINET W/DOOR
A11.3.ii SCALE: 1\" = 1'-0\"



3D LOWER CABINET W/4 DRAWERS
A11.3.ii SCALE: 1\" = 1'-0\"

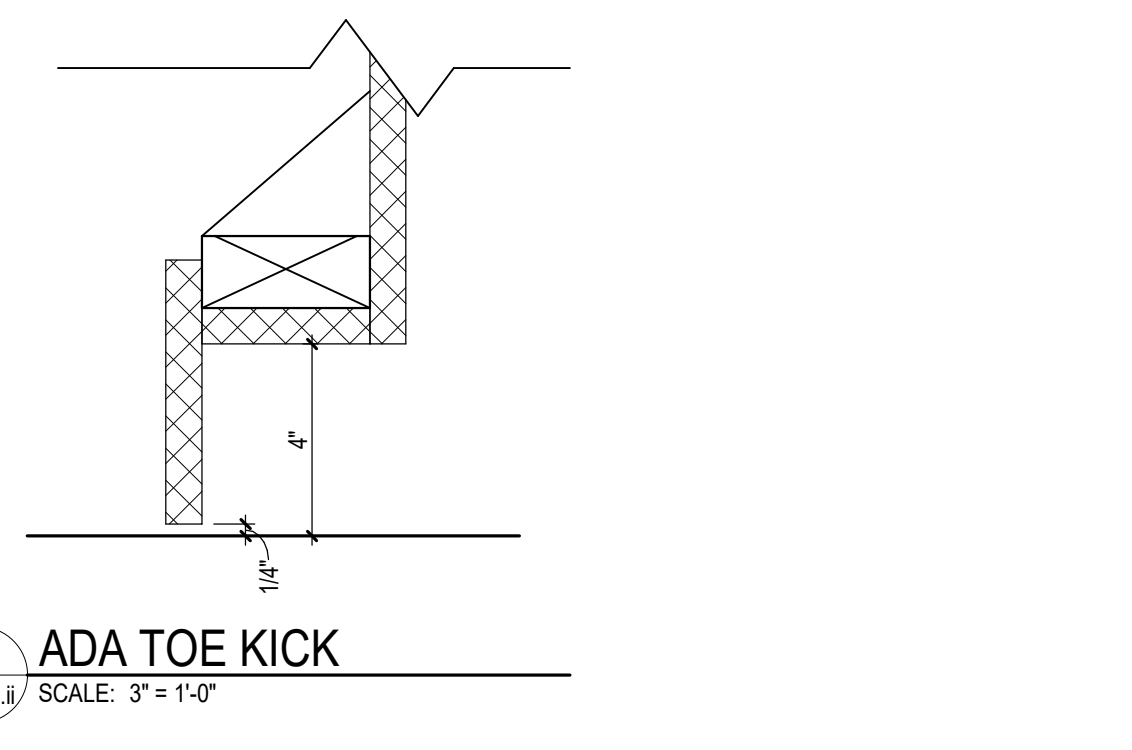


3E LOWER CABINET - ADA SINK
A11.3.ii SCALE: 1\" = 1'-0\"

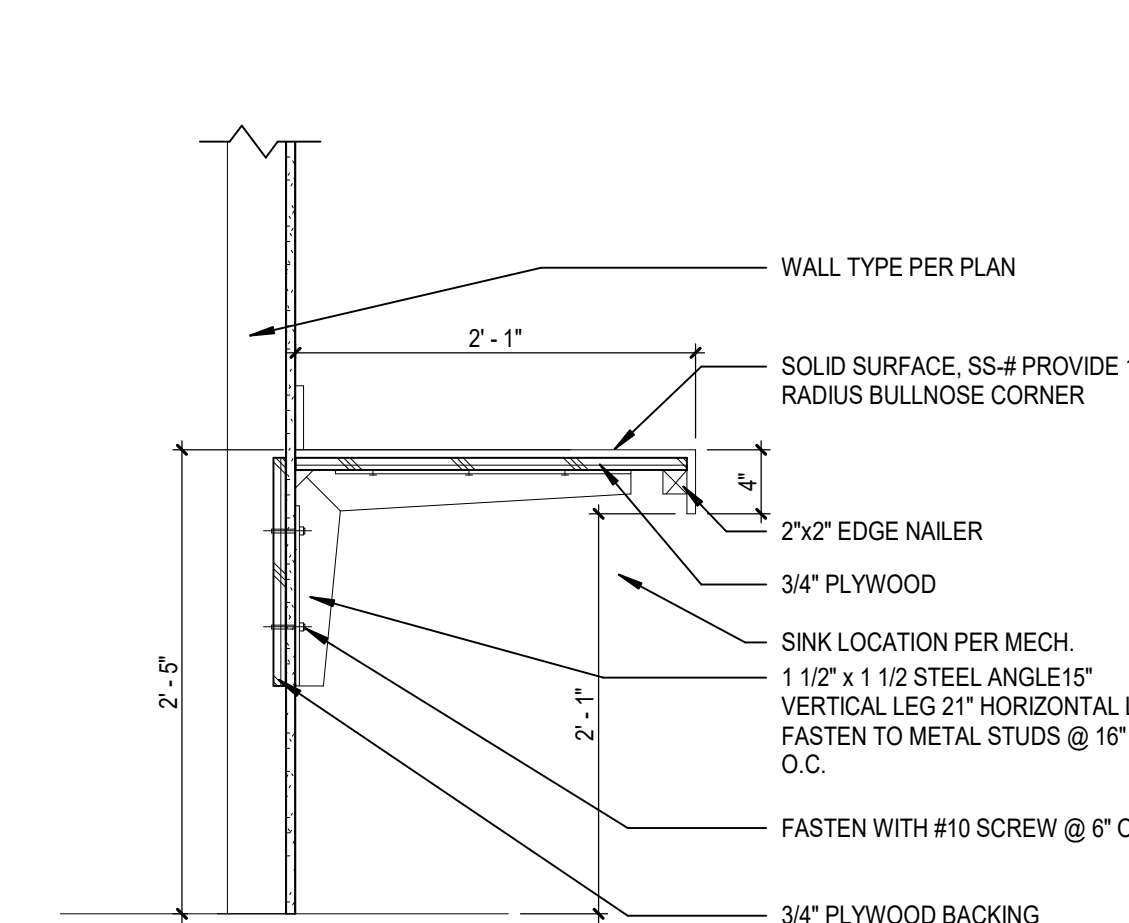


3F BASE CABINET - DOOR WITH 1 DRAWER
A11.3.ii SCALE: 1\" = 1'-0\"

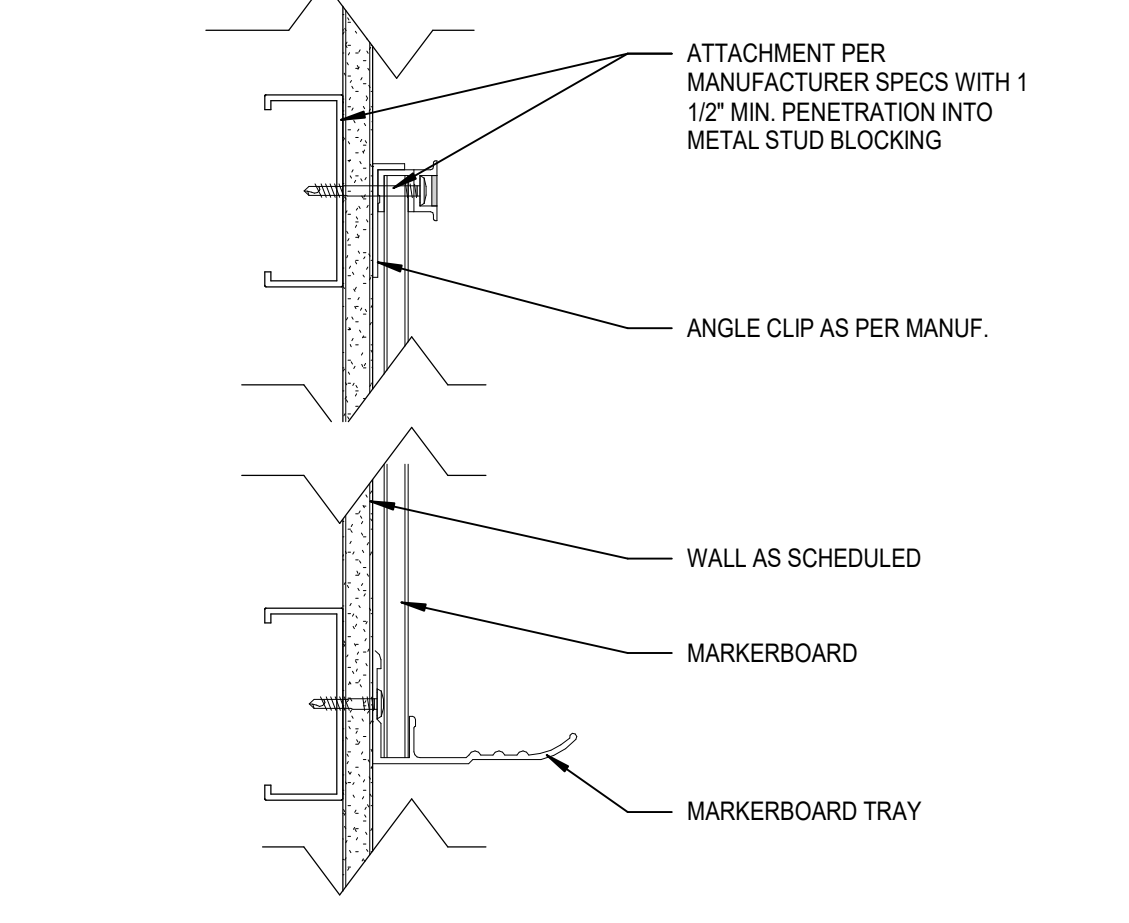
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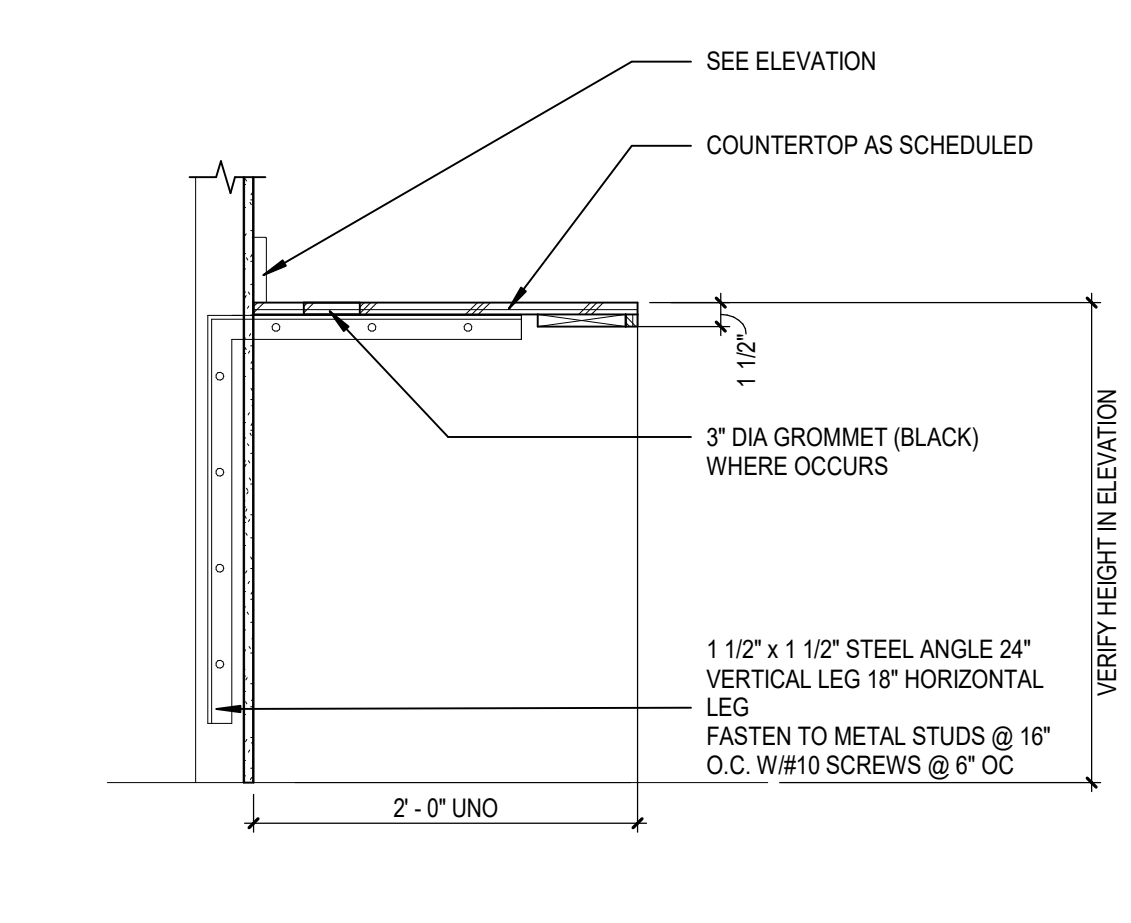
4A ADA TOE KICK
A11.3.ii SCALE: 3\" = 1'-0\"



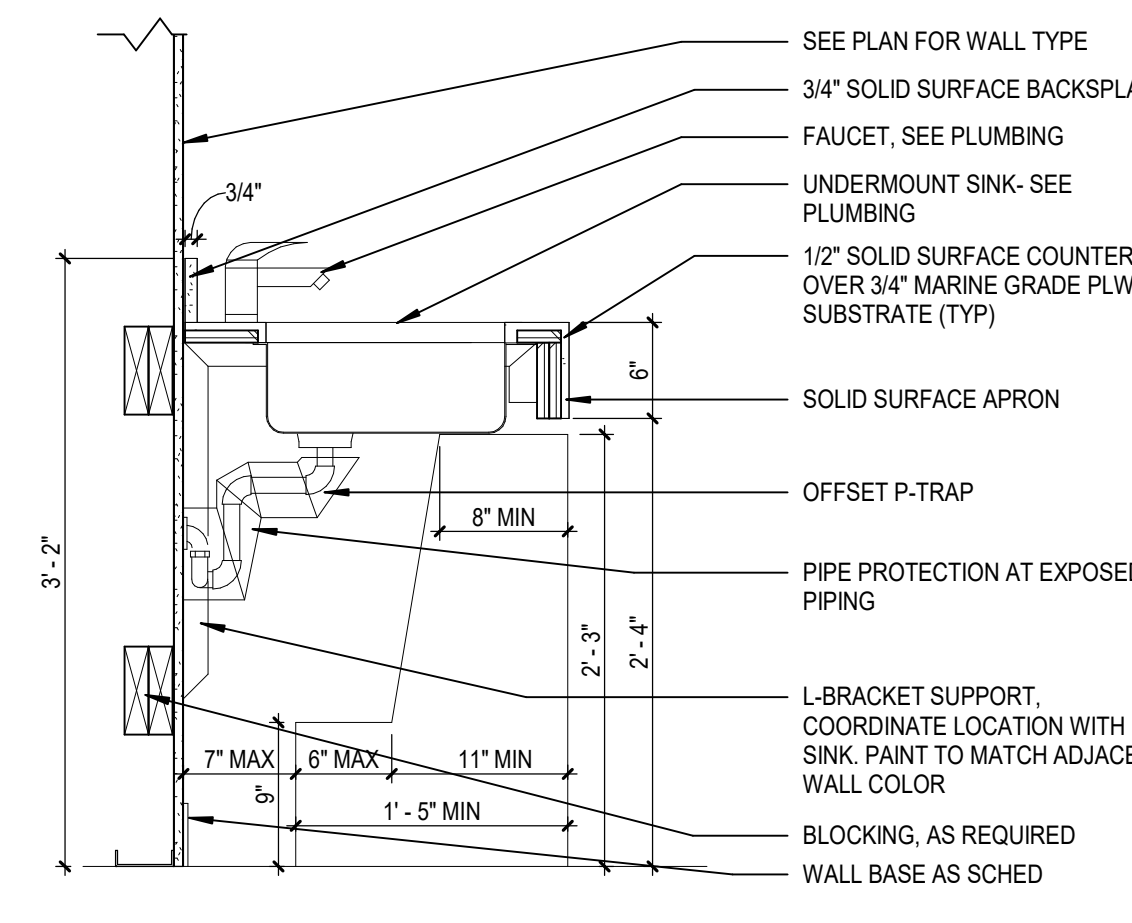
4B COUNTER SURFACE MOUNTED
A11.3.ii SCALE: 1\" = 1'-0\"



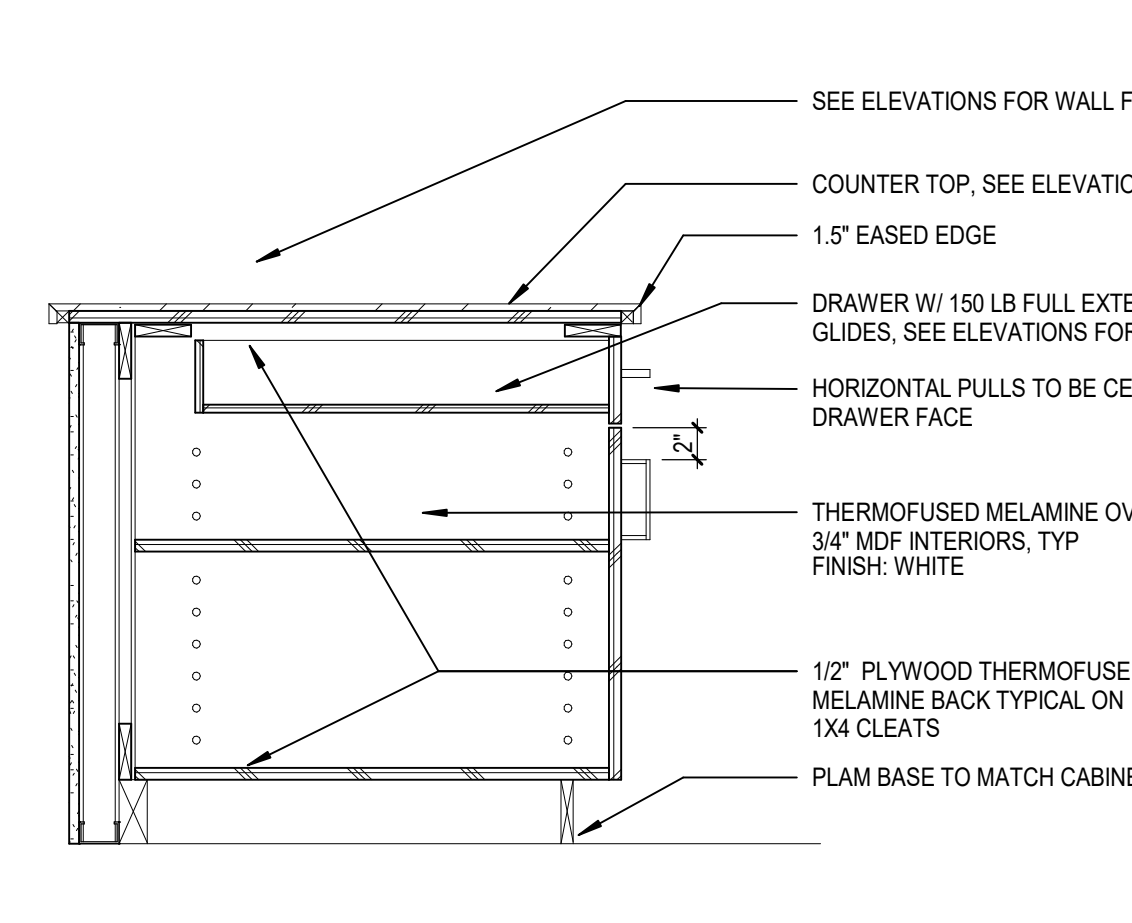
4C MARKERBOARD ATTACHMENT
A11.3.ii SCALE: 3\" = 1'-0\"



4D COUNTERTOP W/CONCEALED STEEL SUPPORTS
A11.3.ii SCALE: 1\" = 1'-0\"

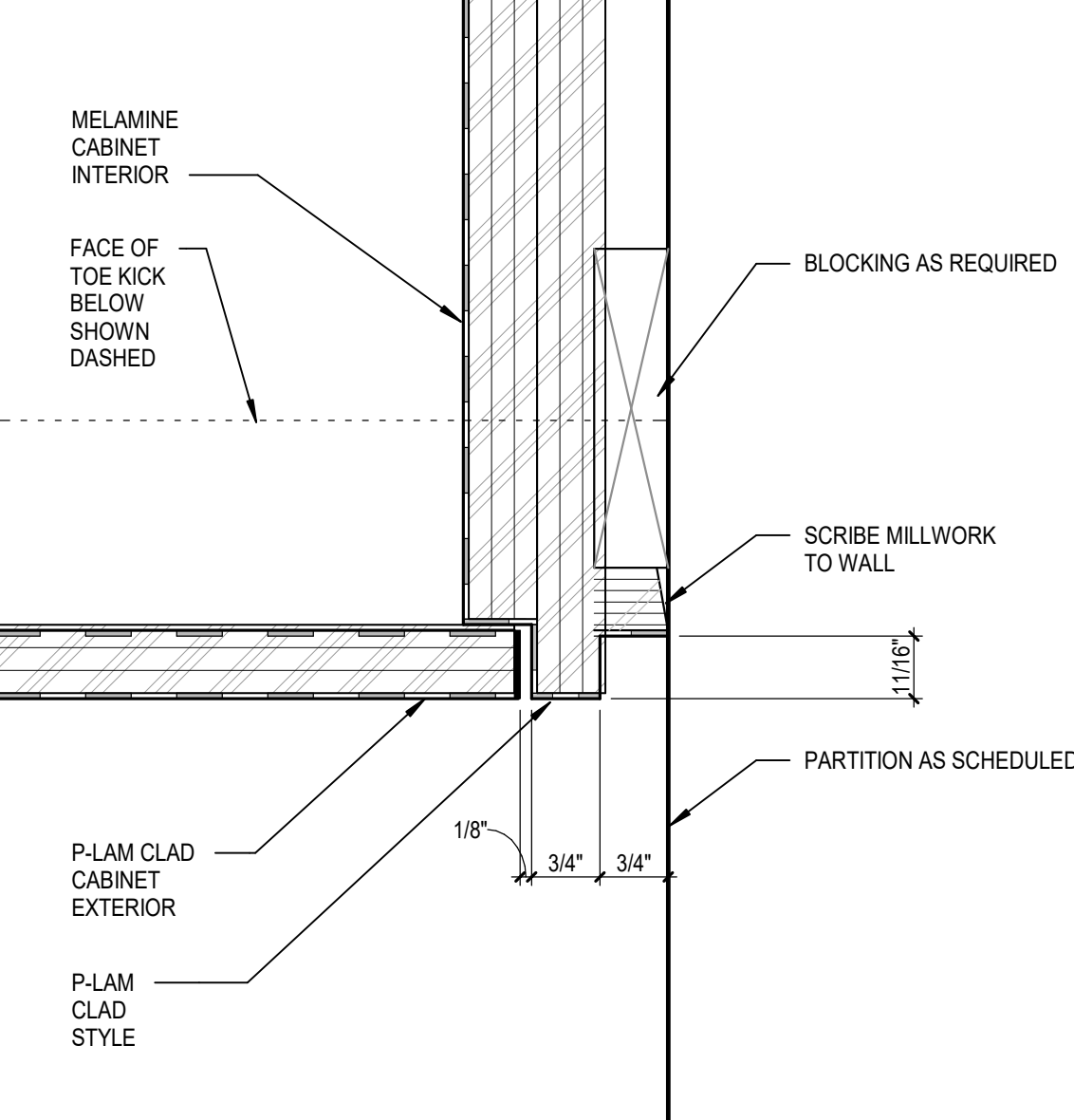


4E COUNTER SINK DETAIL - SOLID SURFACE
A11.3.ii SCALE: 1\" = 1'-0\"

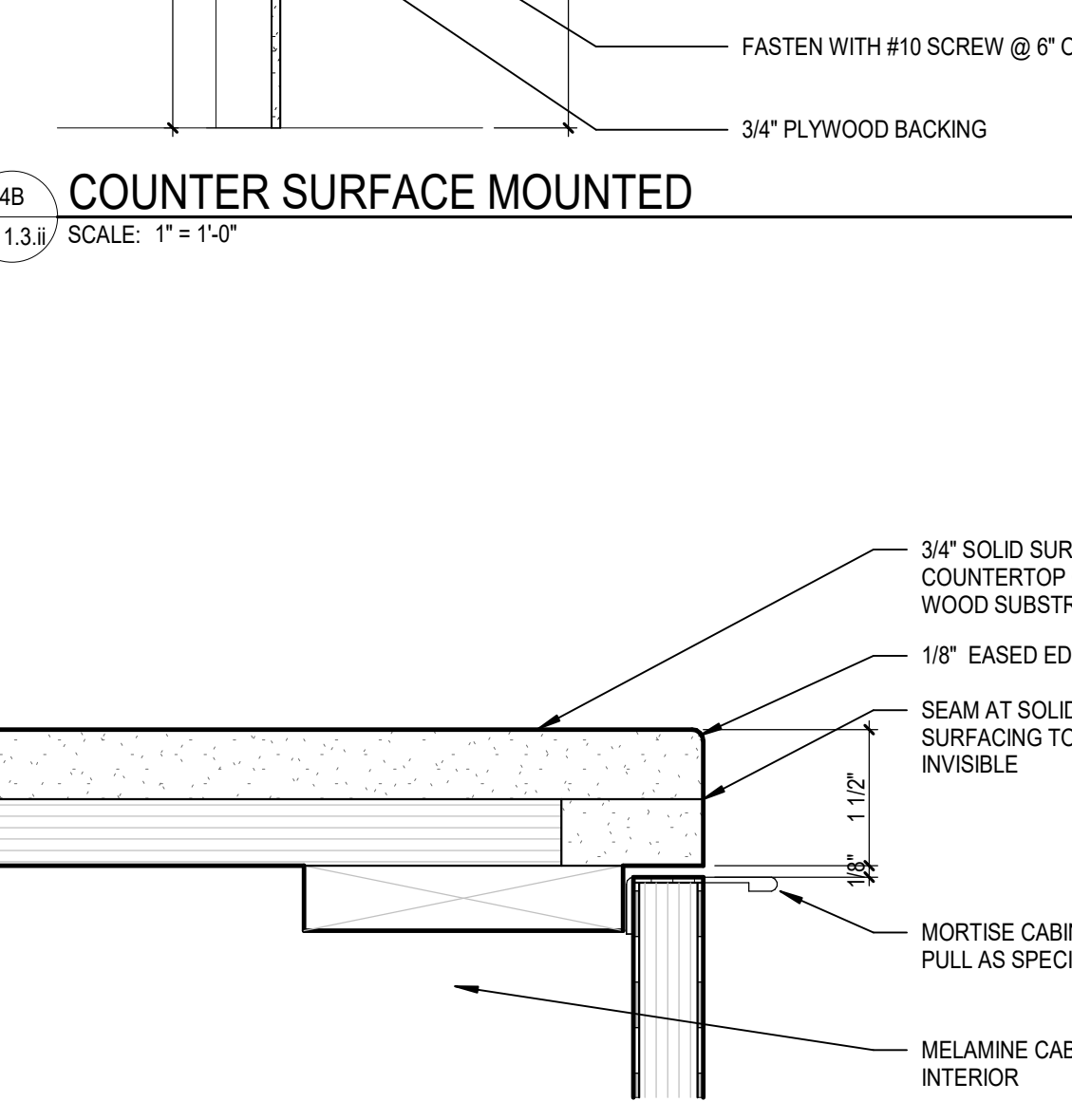


4F BASE CABINET - FREE STANDING
A11.3.ii SCALE: 1\" = 1'-0\"

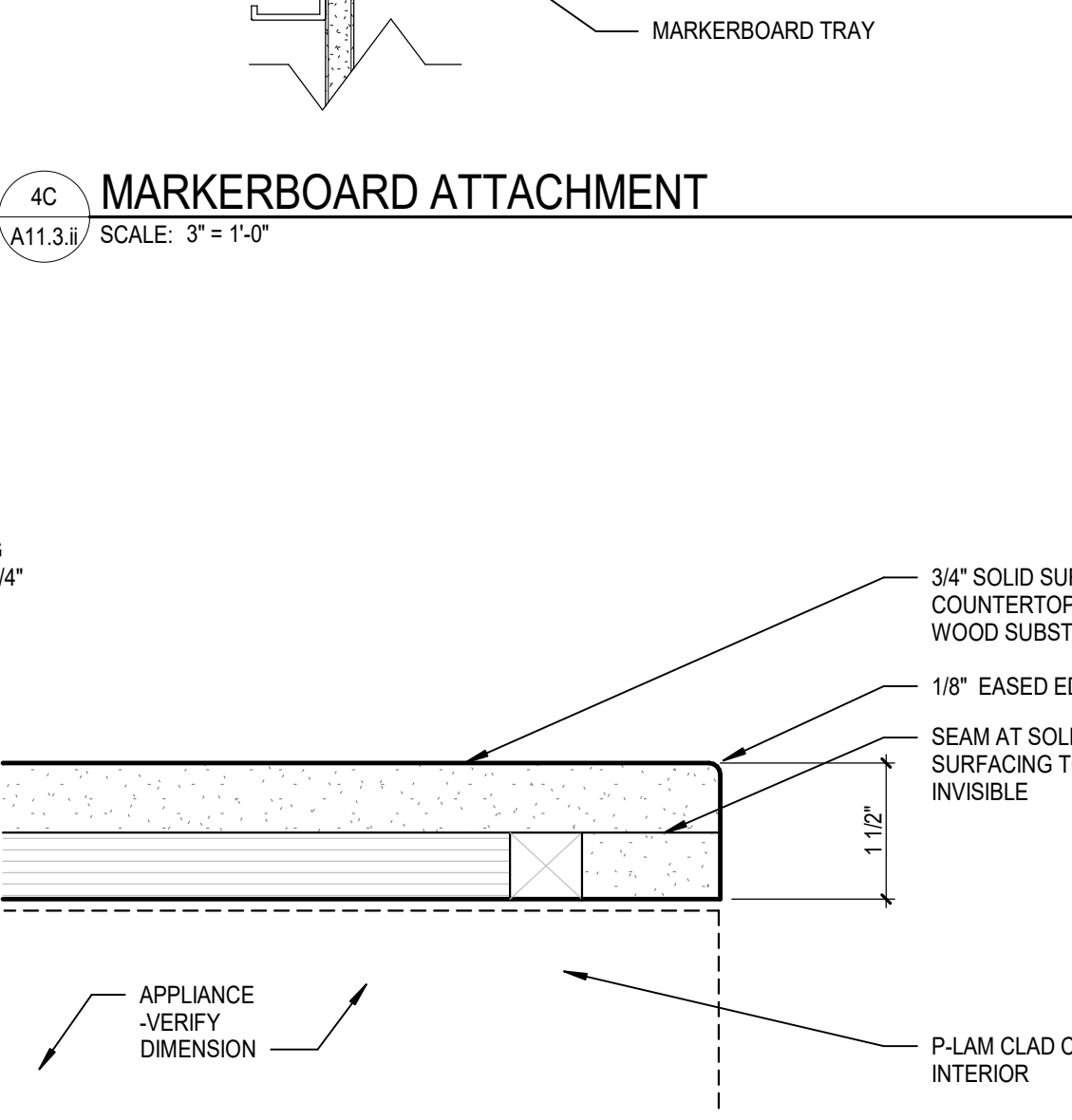
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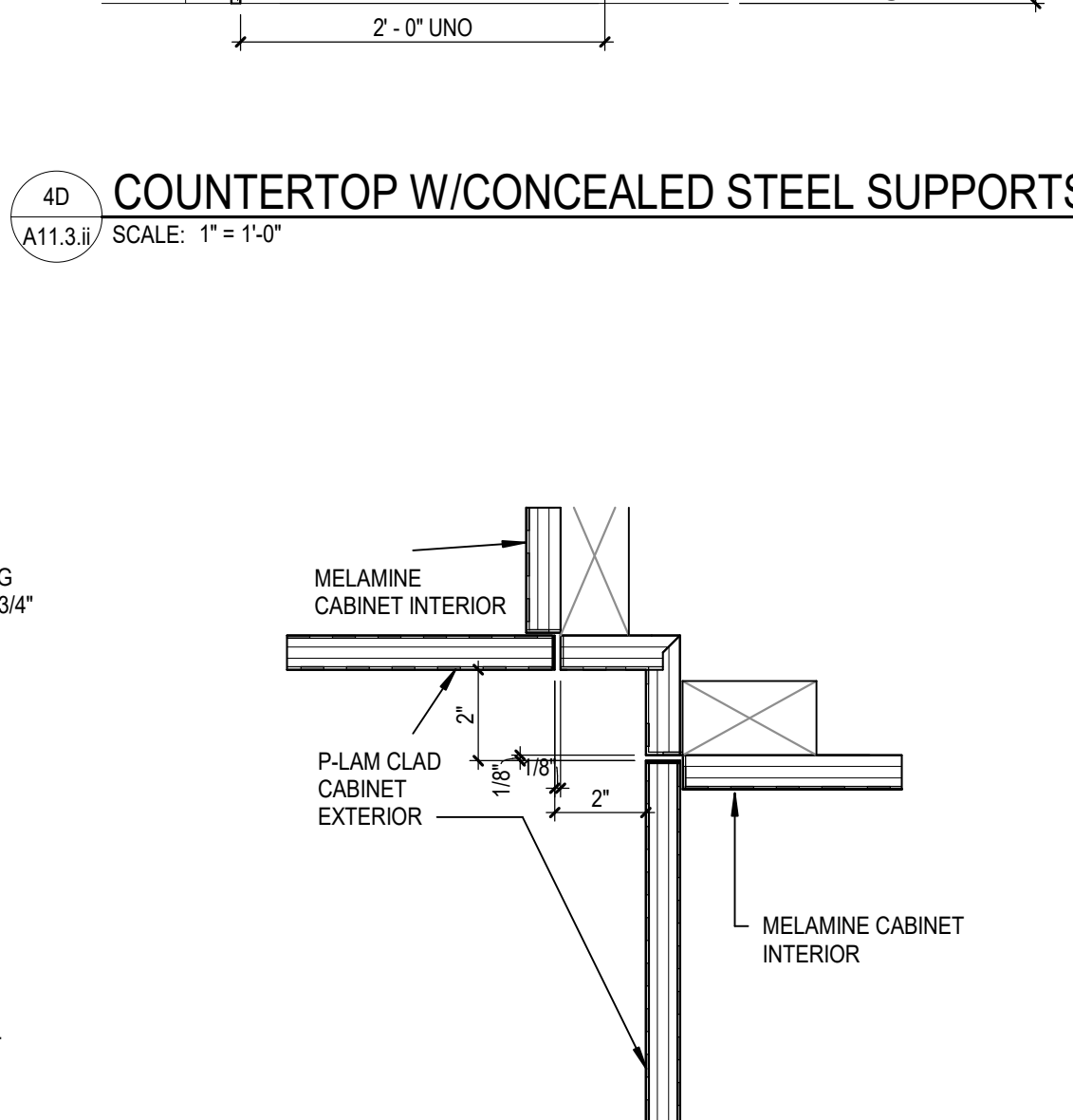
5A MILLWORK ENDPANEL DETAIL
A11.3.ii SCALE: 6\" = 1'-0\"



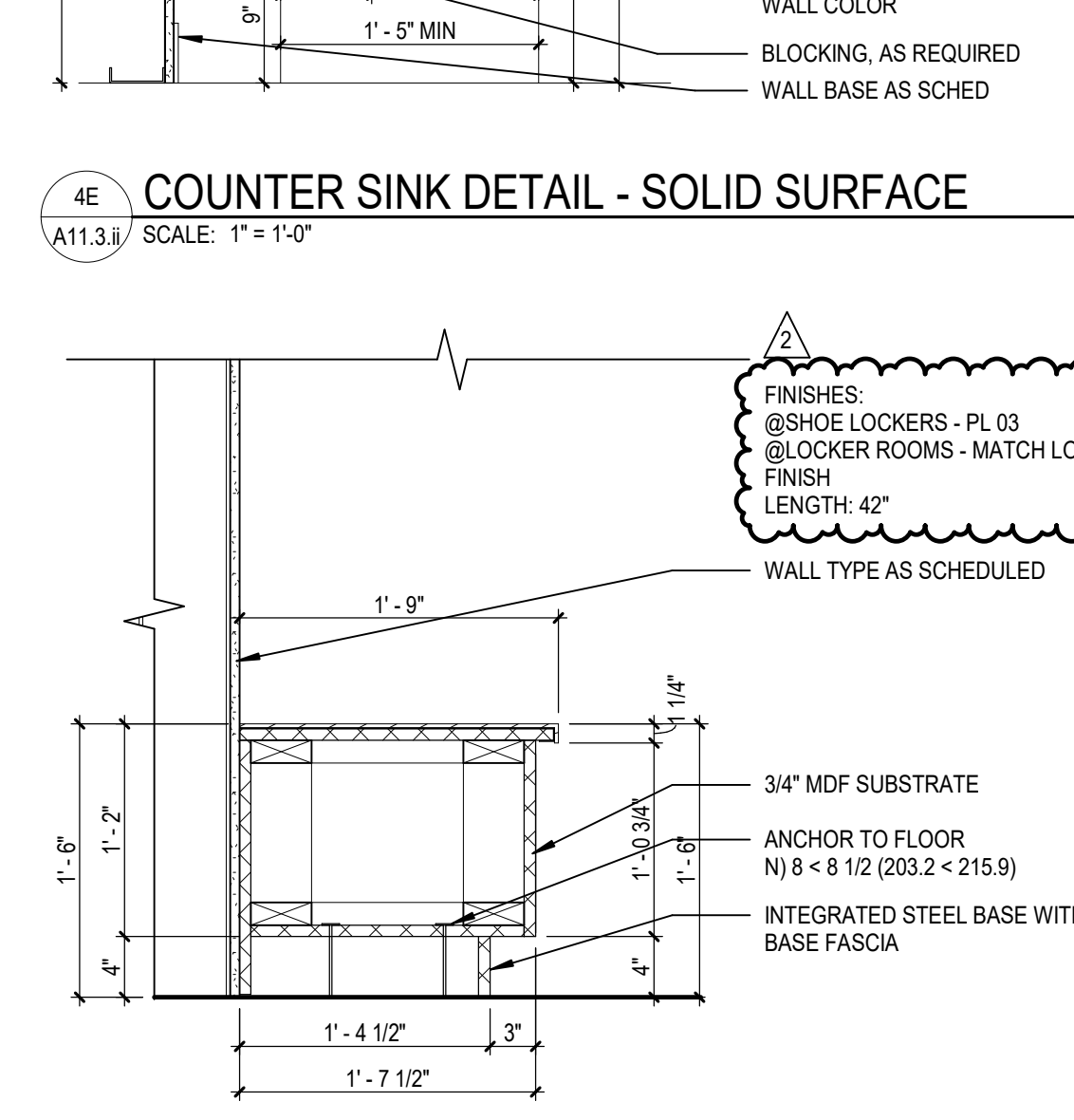
5B DETAIL (W/SOLID SURFACING TOP)
A11.3.ii SCALE: 6\" = 1'-0\"



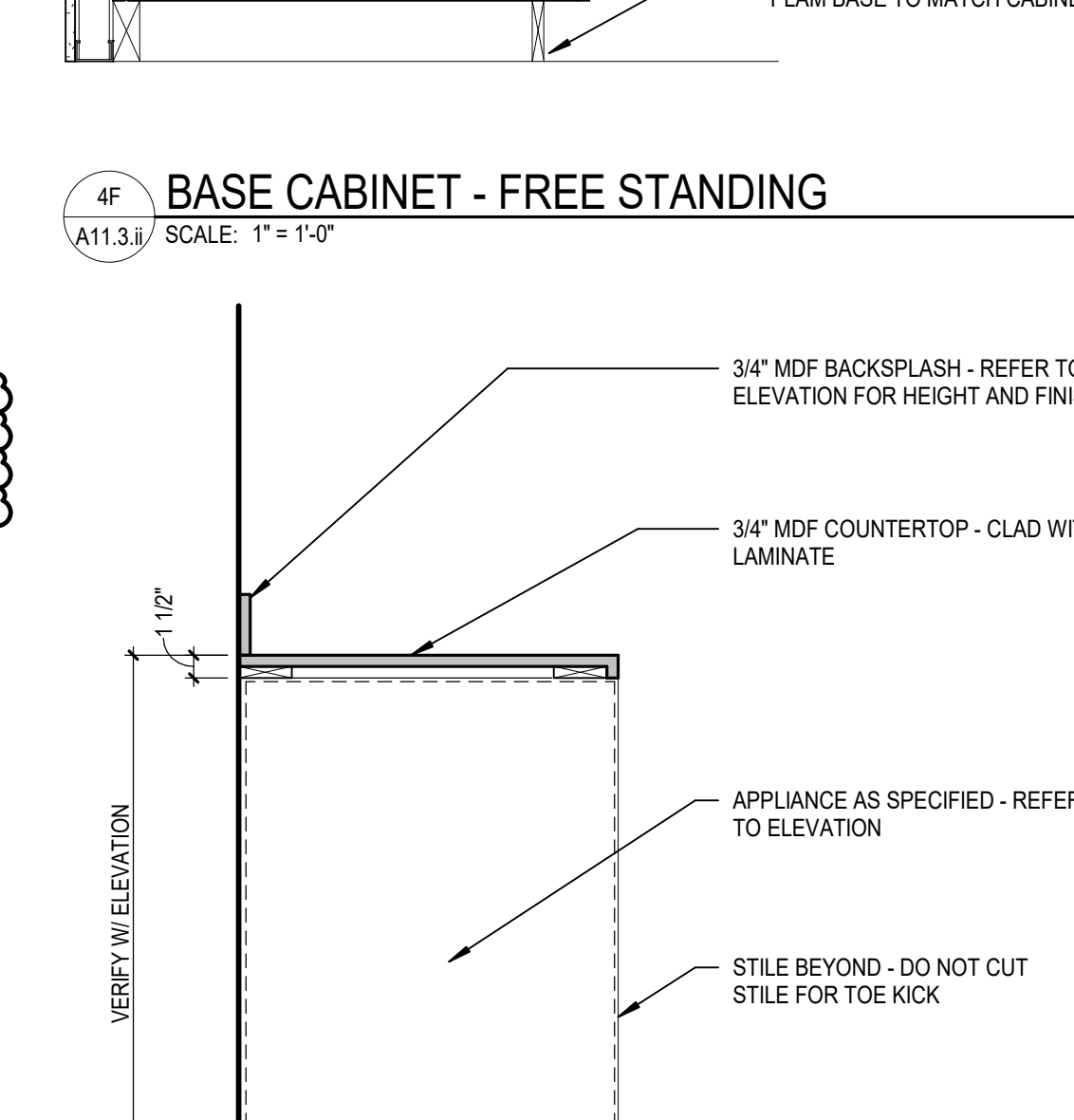
5C DETAIL AT (W/SOLID SURFACING TOP) AT APPLIANCE
A11.3.ii SCALE: 6\" = 1'-0\"



5D MILLWORK DETAIL AT CORNER
A11.3.ii SCALE: 3\" = 1'-0\"

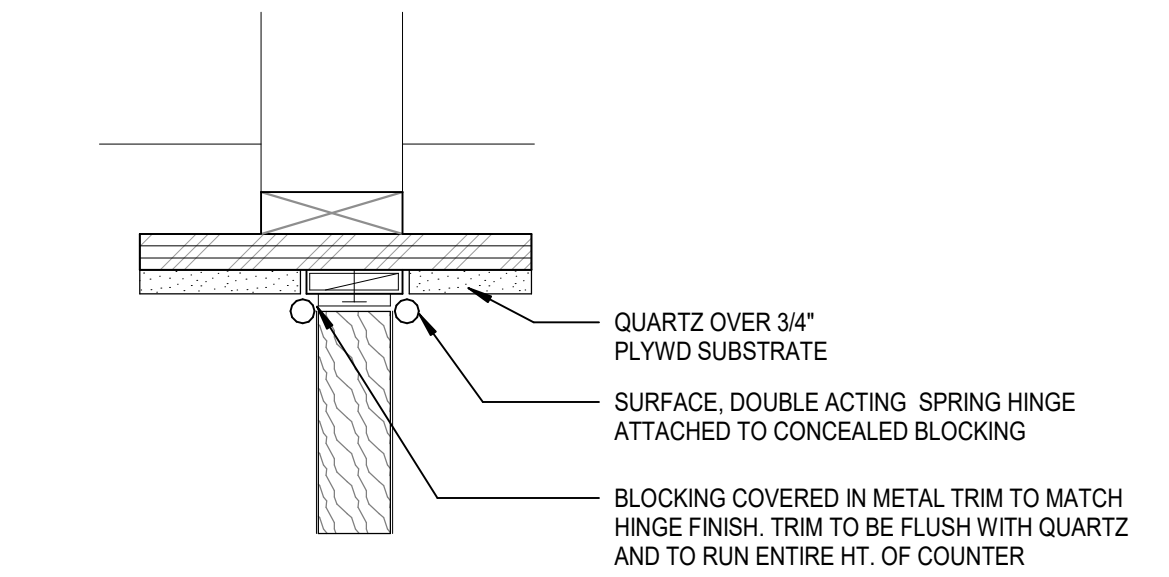
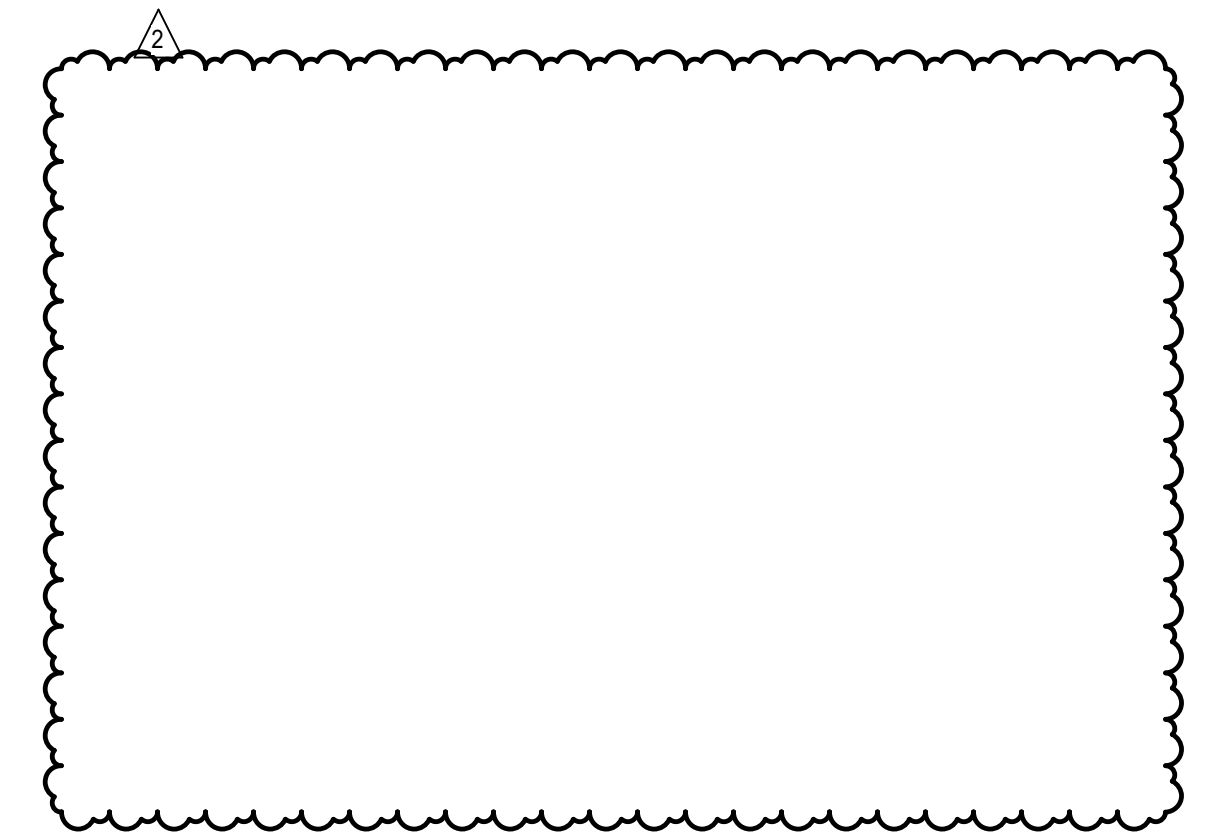
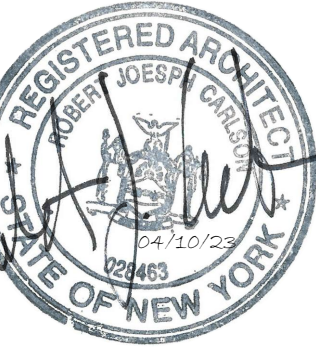


5E CHANGING BENCH
A11.3.ii SCALE: 1\" = 1'-0\"

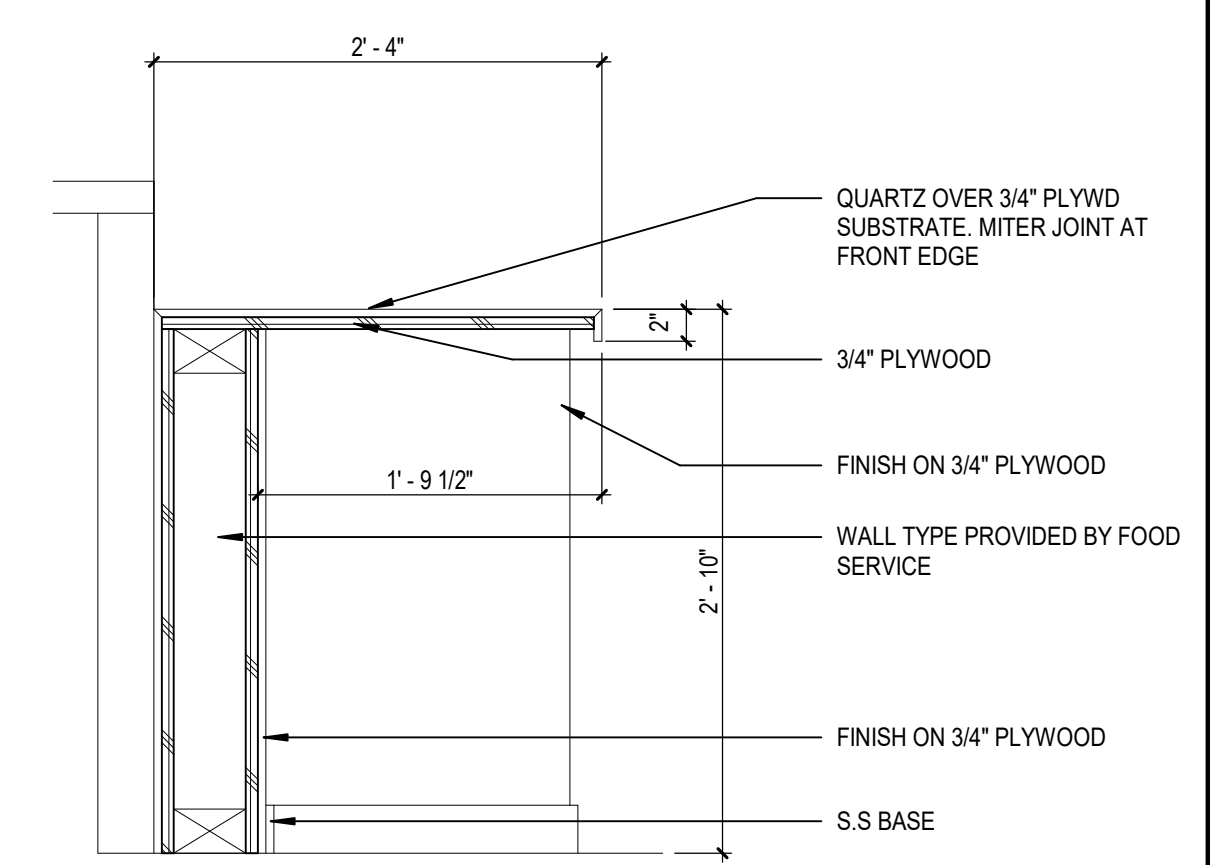


5F SECTION AT APPLIANCE AT BASE CABINET
A11.3.ii SCALE: 1\" = 1'-0\"

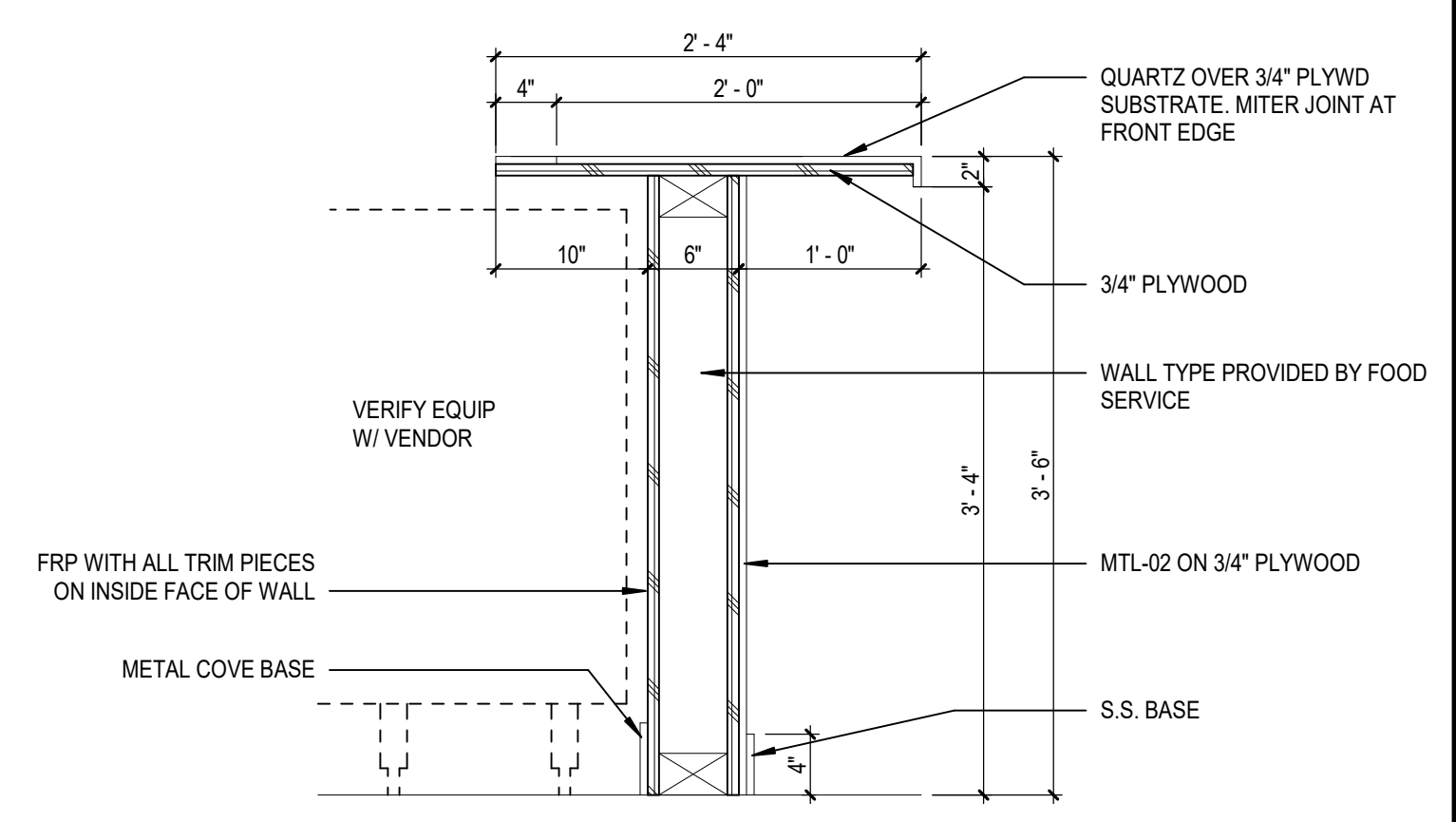
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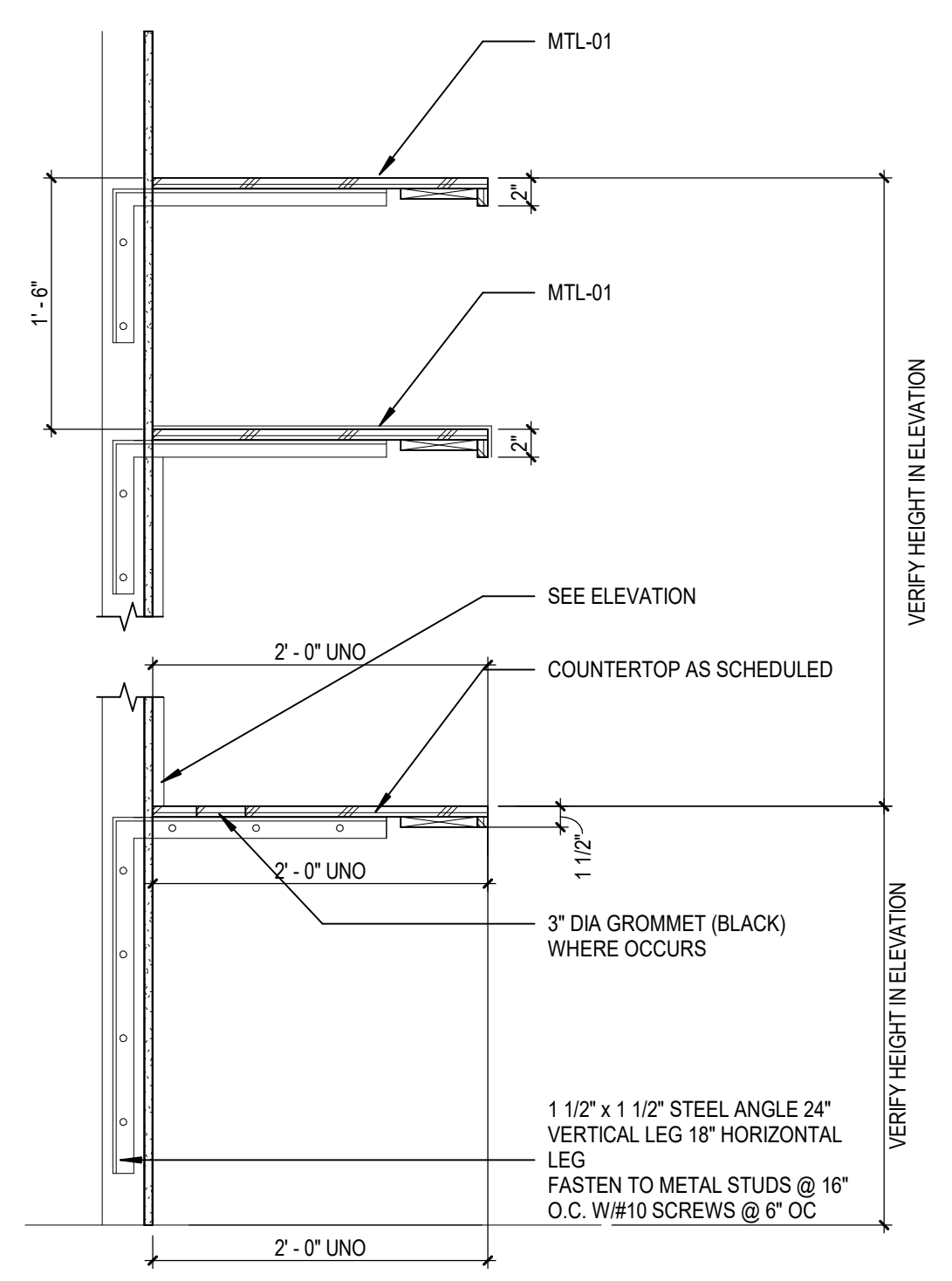
1F MILLWORK DETAIL AT CORNER
A11.4.i SCALE: 3" = 1'-0"



2F SECTION @ BAR - TYP
A11.4.ii SCALE: 1" = 1'-0"

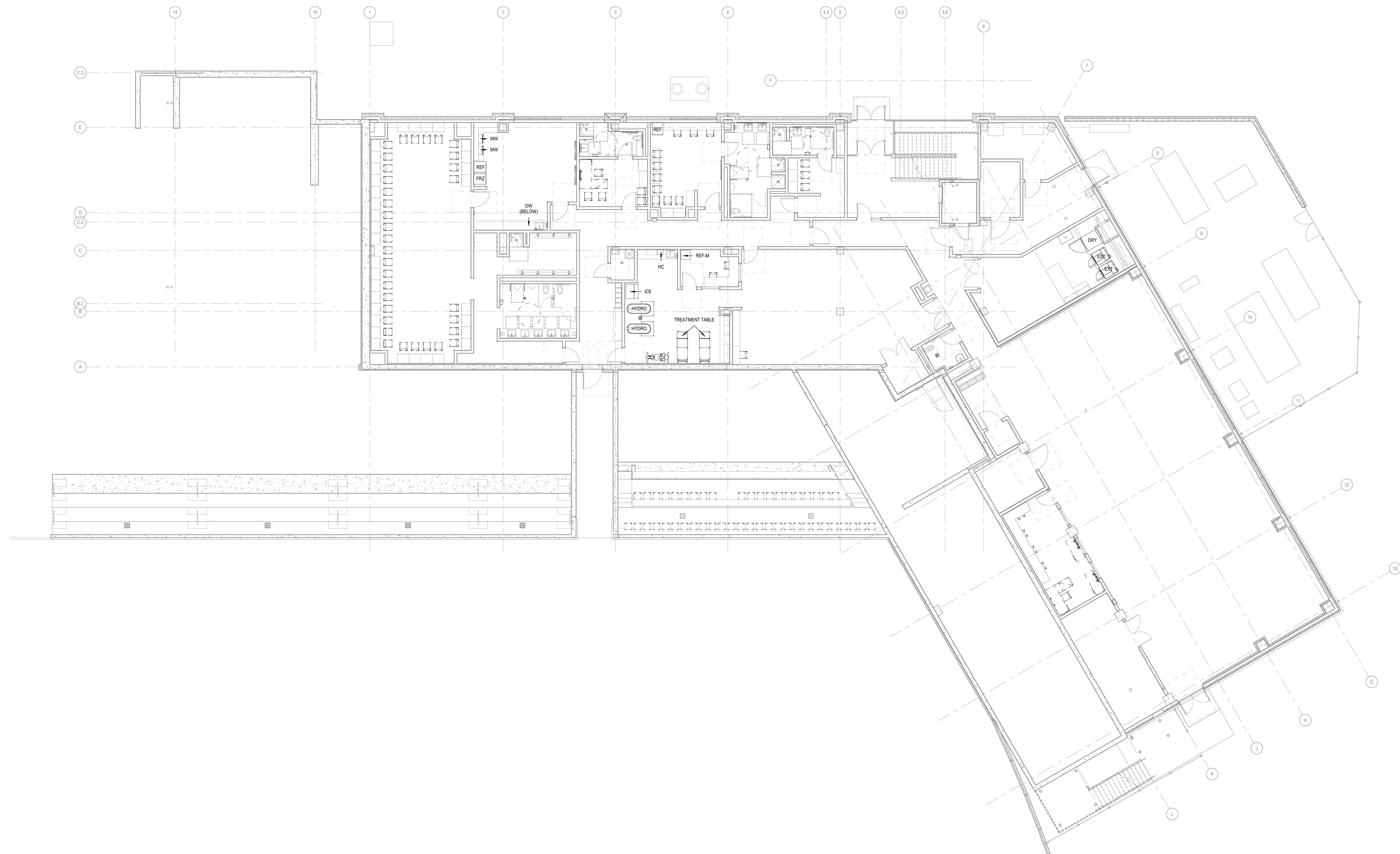


3F SECTION @ BAR - TYP
A11.4.iii SCALE: 1" = 1'-0"



5F COUNTERTOP & SHELVES W/ CONCEALED STEEL SUPPORTS
A11.4.iii SCALE: 1" = 1'-0"

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FURNITURE FLOOR PLAN, LEVEL 1
 SCALE: 1/8" = 1'-0"

FURNITURE PLAN NOTES

A. 5% MINIMUM EMPLOYEE WORKSTATIONS TO BE ADA COMPLIANT.

B. PROVIDE PORTABLE ASSISTED LISTENING DEVICES FOR ALL CONFERENCE ROOMS/ASSEMBLY AREAS PER 11B-216.1, 11B-210 & 11B-706.

C. PROVIDE HEARING IMPAIRED SIGNAGE FOR PORTABLE LISTENING DEVICES STATING THESE DEVICES ARE AVAILABLE UPON REQUEST FOR EACH LOCATION.

D. CAPACITY OF ASSEMBLY SEATING AREA EXCEEDS 2000 OCCUPANTS. 65 + 1 PER 100 SEATS ARE REQUIRED. THERE ARE 653 NEW SEATS REQUIRING AN ADDITIONAL 7 ASSISTED LISTENING DEVICES. AN ADDITIONAL 3 DEVICES REQUIRED FOR PICNIC DECK SEATING. RE: AV FURNITURE, FURNISHING, AND EQUIPMENT SHOWN FOR REFERENCE ONLY. FULL TONE, DASHED FFE ARE NOT IN CONTRACT. EQUIPMENT IN CONTRACT APPEARS IN EQUIPMENT SCHEDULE BELOW.

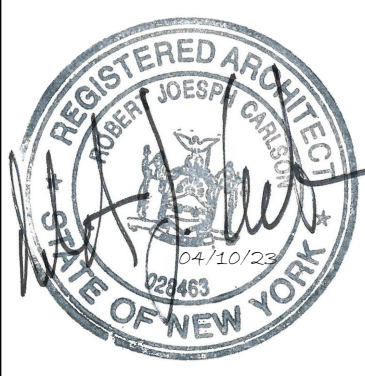
E. PER SECTION 1108.2.3.1 OF THE 2020 NYSDC WHERE DINING SURFACES ARE PROVIDED AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, OF THE DINING SURFACES SHALL BE ACCESSIBLE. DINING SURFACES SHALL COMPLY WITH SECTION 902 OF THE 2009 ANSI 117.1

FURNITURE PLAN LEGEND

AREA NOT IN CONTRACT (NIC)

XXXX FURNITURE TAG

MARK	MANUFACTURER	MODEL	DESCRIPTION
	WHITEHALL REHABILITATION	S-110-S	110 GALLON, STAINLESS STEEL, SOLID BASE
DRY	UNIMAC	UT079NDN0RKA3	75LB GAS DRYING TUMBLER
	SUMMIT APPLIANCE	DW243SSSADA	STAINLESS STEEL, ADA DISHWASHER
EXT	UNIMAC	UW706SD40VX	66LB HARD MOUNT WASHER-EXTRACTOR, RE: ELEC, PLUMB, & MECH DWGS
FRZ	SUMMIT APPLIANCE	SCFF23ZLH	COMPLETE SS CONSTRUCTION, REACH-IN ALL-FREEZER, NSF
	CHATTANOOGA REHAB	HYDROCOLLATOR E-2	STATIONARY HEATING UNIT, STAINLESS STEEL
HYDRO	WHITEHALL REHABILITATION	S-110-S	110 GALLON, STAINLESS STEEL, SOLID BASE
ICE	SCOTSMAN	N0622W, B530S	WATER COOLED 600LB ICE MACHINE, NUGGET ICE, 500 LB STORAGE BIN
MW	SUMMIT APPLIANCE	SCM1000SS	COMMERCIAL MICROWAVE, STAINLESS STEEL, NSF
REF	SUMMIT APPLIANCE	SCR23SSS	COMPLETE SS CONSTRUCTION, REACH-IN GLASS FRONT, NSF
REF-M	SUMMIT APPLIANCE	FF7LBKSSHV	SS COUNTER HEIGHT REFRIGERATOR W/ LOCK, NSF
TREATMENT TABLE	HAUSMANN ENTERPRISES	A0401	H-BRACE TABLE W/ LAMINATE SHELF & OPEN STORAGE

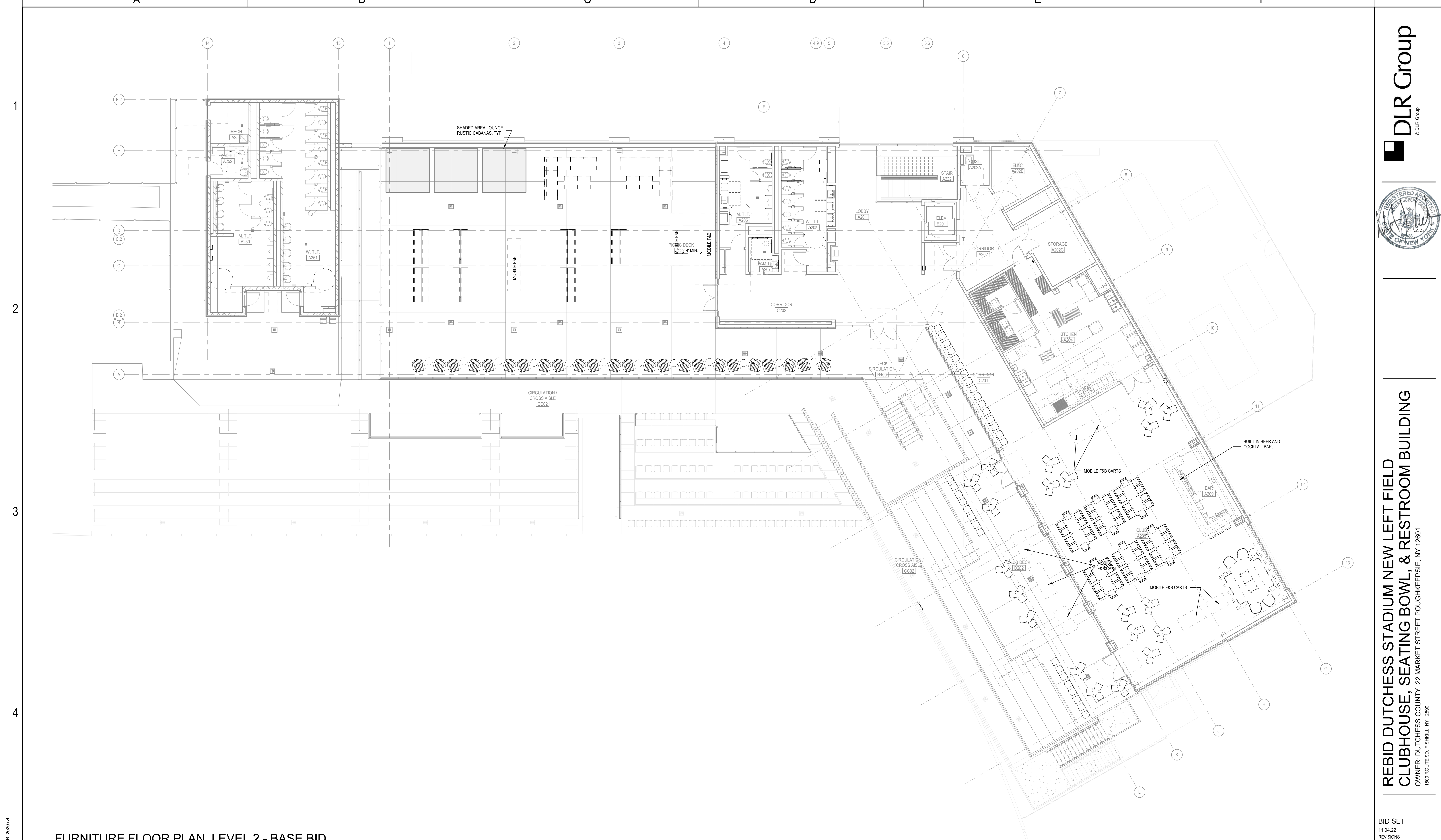


REBID DUTCHESS STADIUM NEW LEFT FIELD CLUBHOUSE, SEATING BOWL, & RESTROOM BUILDING
 OWNER: DUTCHESS COUNTY, 22 MARKET STREET Poughkeepsie, NY 12601
 1500 ROUTE 90, FISHKILL, NY 12590

BID SET
 11.04.22
 REVISIONS
 1 CONSTRUCTION DOCS 03.05.23
 2 ASI 001 04.07.23

57-21113-00
FIRST FLOOR F&E PLAN - AREA A

A13.2A.ii



FURNITURE FLOOR PLAN, LEVEL 2 - BASE BID

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

NOTE: FURNITURE, FURNISHING, AND EQUIPMENT SHOWN FOR REFERENCE ONLY. FULL TONE, DASHED FFE ARE NOT IN CONTRACT.

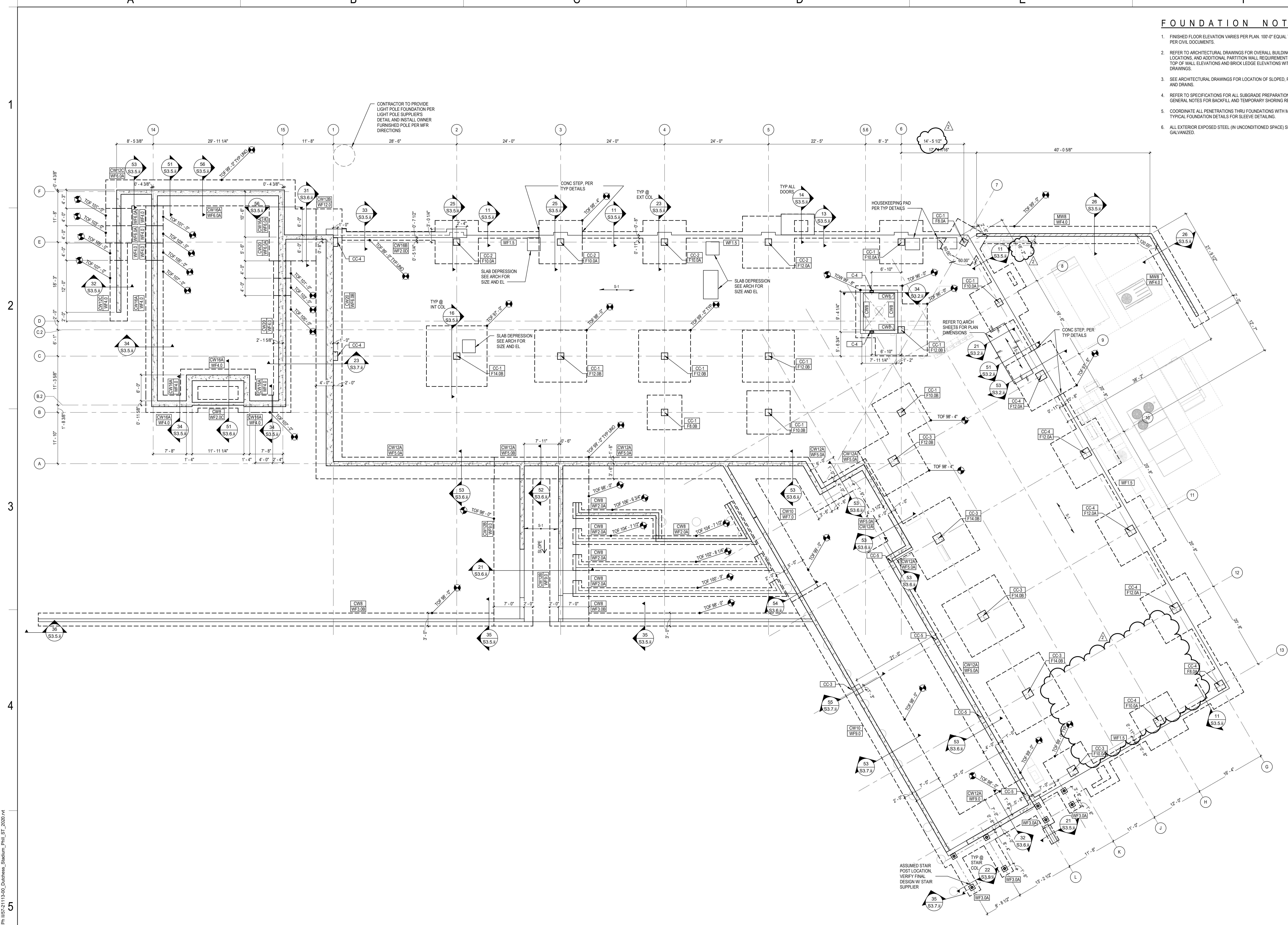
FURNITURE PLAN NOTES

- A. 5% MINIMUM EMPLOYEE WORKSTATIONS TO BE ADA COMPLIANT.
- B. PROVIDE PORTABLE ASSISTED LISTENING DEVICES FOR ALL CONFERENCE ROOMS/ASSEMBLY AREAS PER 11B-216.1, 11B-210 & 11B-706.
- C. PROVIDE HEARING IMPAIRED SIGNAGE FOR PORTABLE LISTENING DEVICES STATING THESE DEVICES ARE AVAILABLE UPON REQUEST FOR EACH LOCATION.
- D. CAPACITY OF ASSEMBLY SEATING AREA EXCEEDS 2000 OCCUPANTS. 55 + 1 PER 100 SEATS ARE REQUIRED. THERE ARE 653 NEW SEATS, REQUIRING AN ADDITIONAL 7 ASSISTED LISTENING DEVICES. AN ADDITIONAL 3 DEVICES REQUIRED FOR PICNIC DECK SEATING. RE: AV
- E. FURNITURE, FURNISHING, AND EQUIPMENT SHOWN FOR REFERENCE ONLY. FULL TONE, DASHED FFE ARE NOT IN CONTRACT. EQUIPMENT IN CONTRACT APPEARS IN EQUIPMENT SCHEDULE BELOW.
- F. PER SECTION 1108.2.9.1 OF THE 2020 NYSBC WHERE DINING SURFACES ARE PROVIDED AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, OF THE DINING SURFACES SHALL BE ACCESSIBLE. DINING SURFACES SHALL COMPLY WITH SECTION 902 OF THE 2009 ANS1 117.1

FURNITURE PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- FURNITURE TAG

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FOUNDATION NOTES

1. FINISHED FLOOR ELEVATION VARIES PER PLAN. 100'-0" EQUAL TO SURVEY ELEVATION 152'-0" PER CIVIL DOCUMENTS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR OVERALL BUILDING GEOMETRY, WALL LOCATIONS, AND ADDITIONAL PARTITION WALL REQUIREMENTS. CONFIRM WALL OPENINGS, TOP OF WALL ELEVATIONS AND BRICK LEDGE ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF SLOPED, RAISED, DEPRESSED SLABS AND DRAINS.
4. REFER TO SPECIFICATIONS FOR ALL SUBGRADE PREPARATION REQUIREMENTS. REFER TO GENERAL NOTES FOR BACKFILL AND TEMPORARY SHORING REQUIREMENTS.
5. COORDINATE ALL PENETRATIONS THRU FOUNDATIONS WITH MEP DRAWINGS. REFERENCE TYPICAL FOUNDATION DETAILS FOR SLEEVE DETAILING.
6. ALL EXTERIOR EXPOSED STEEL (IN UNCONDITIONED SPACE) SHALL BE HOT DIP GALVANIZED.

CONTRACTOR TO PROVIDE LIGHT POLE FOUNDATION PER LIGHT POLE SUPPLIER'S DETAIL AND INSTALL OWNER FURNISHED POLE PER MFR DIRECTIONS

CONC STEP, PER TYP DETAILS

TYP @ EXT COL

TYP ALL DOORS

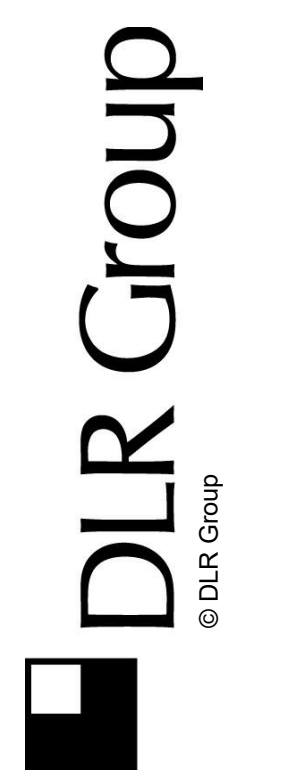
HOUSEKEEPING PAD PER TYP DETAILS

REFER TO ARCH SHEETS FOR PLAN DIMENSIONS

CONC STEP, PER TYP DETAILS

ASSUMED STAIR POST LOCATION, VERIFY FINAL DESIGN W/ STAIR SUPPLIER

FOUNDATION PLAN, LEVEL 01
SCALE: 1/8" = 1'-0"

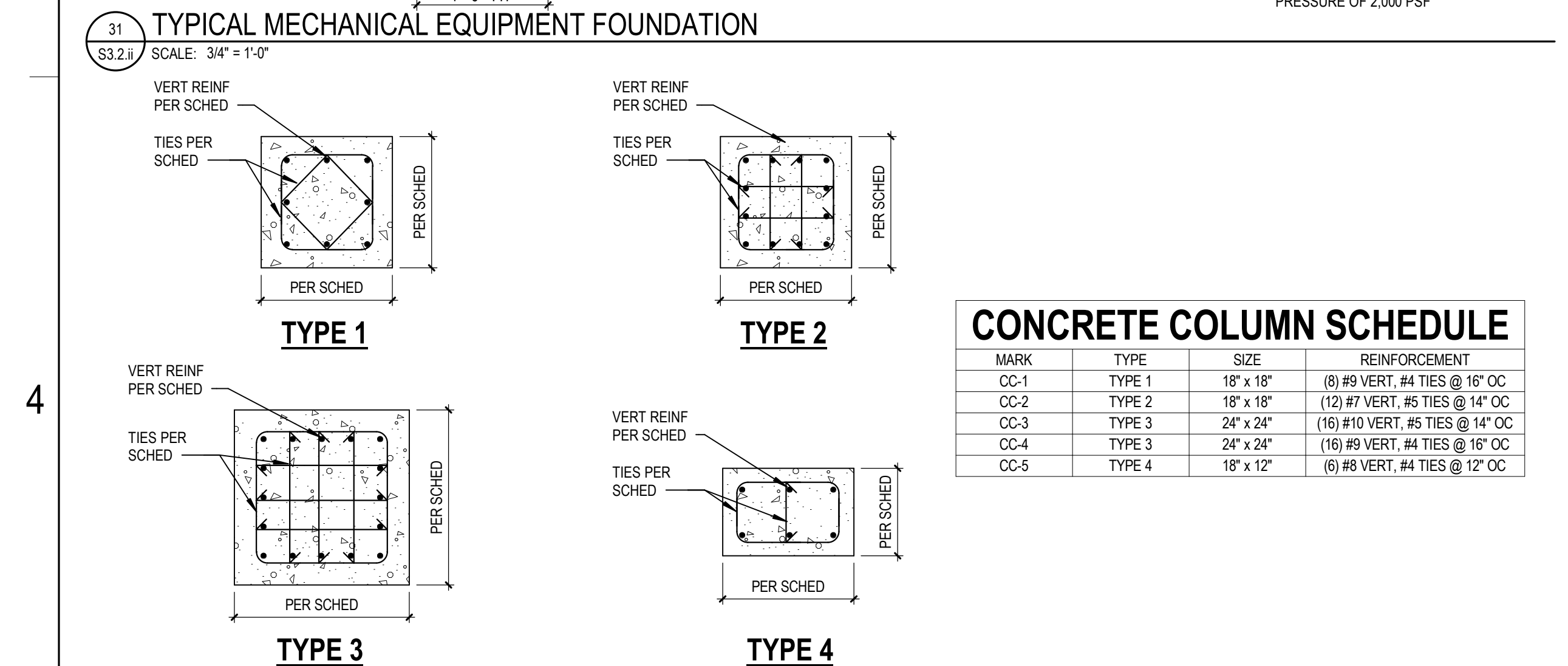
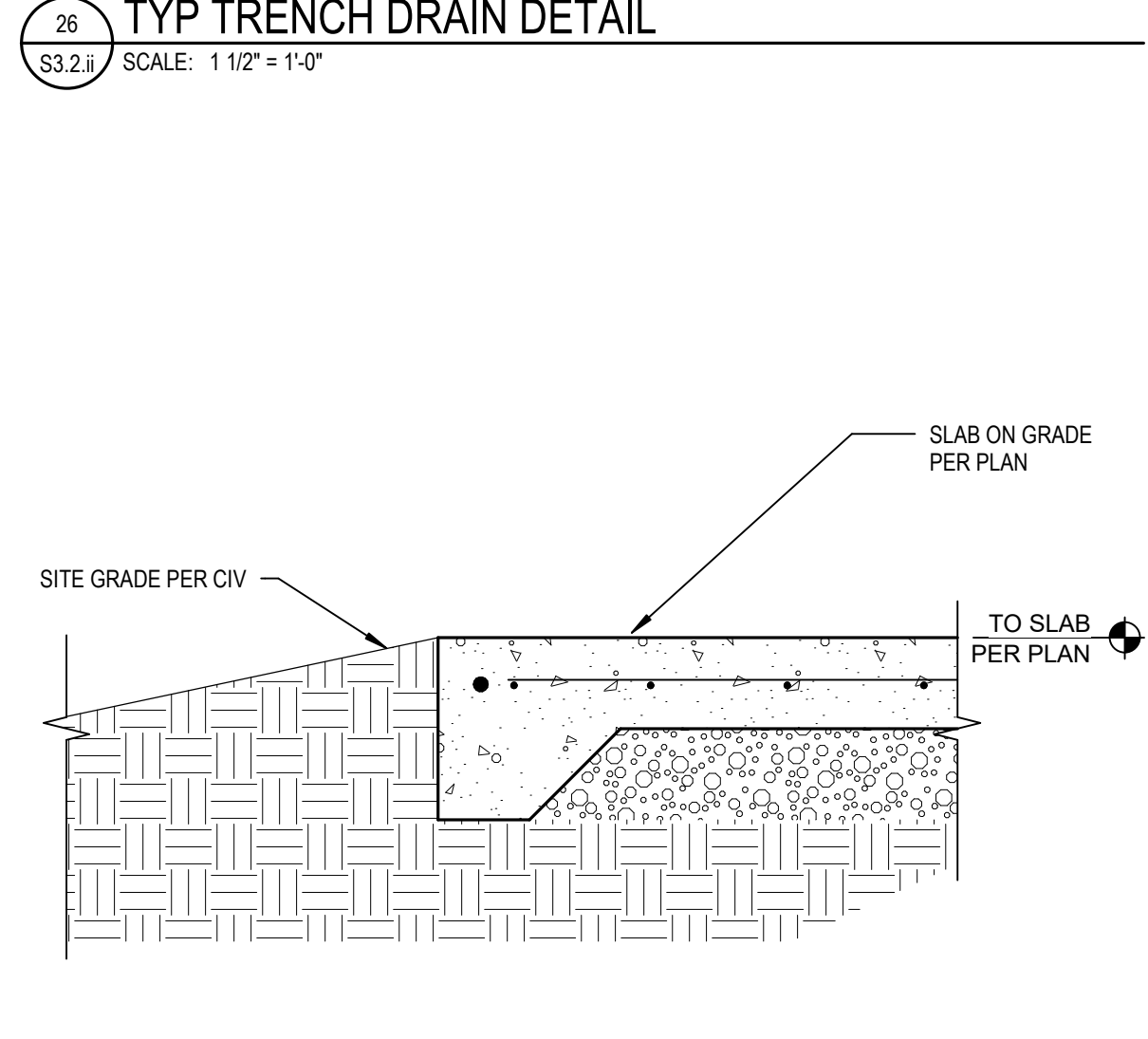
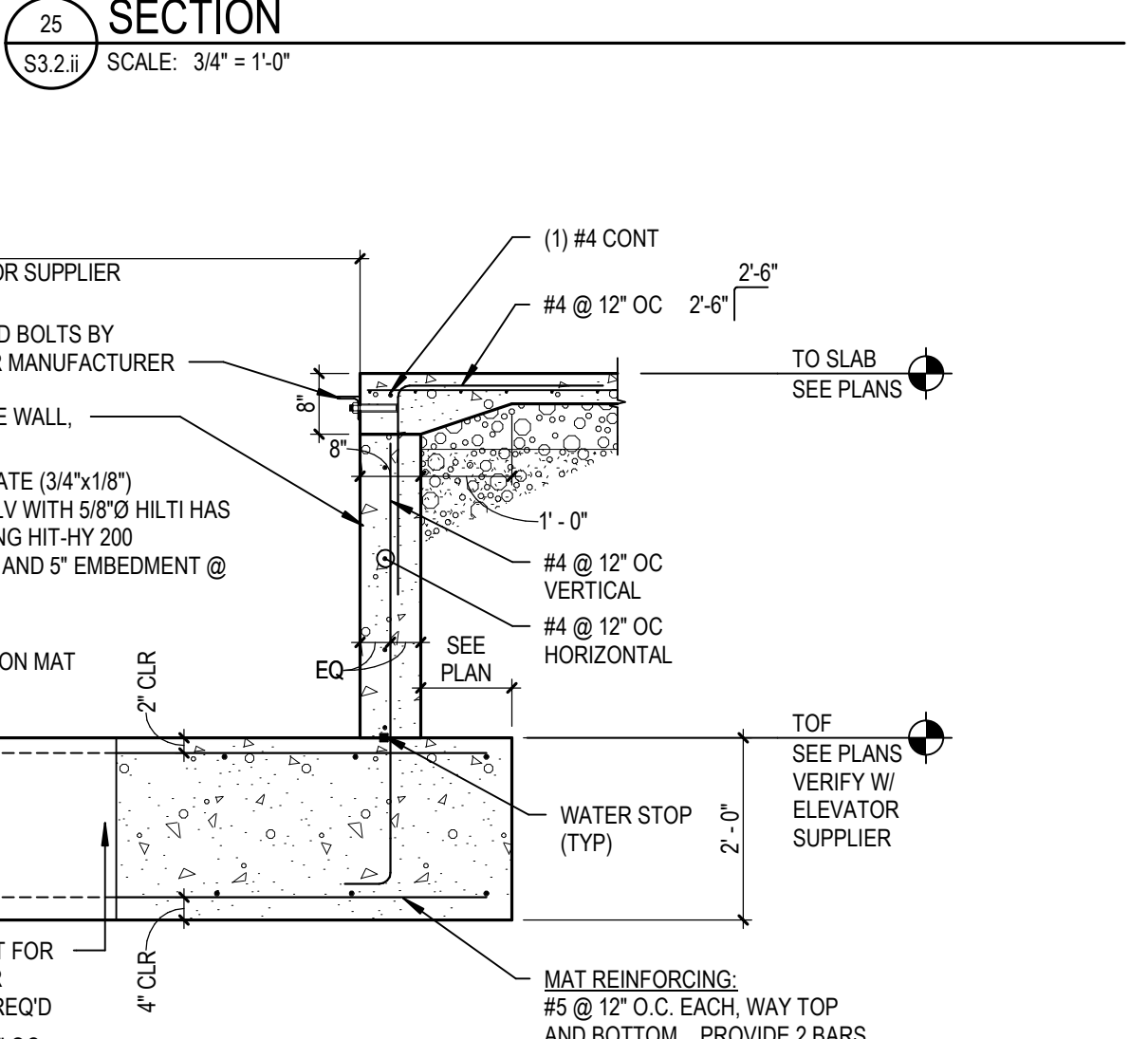
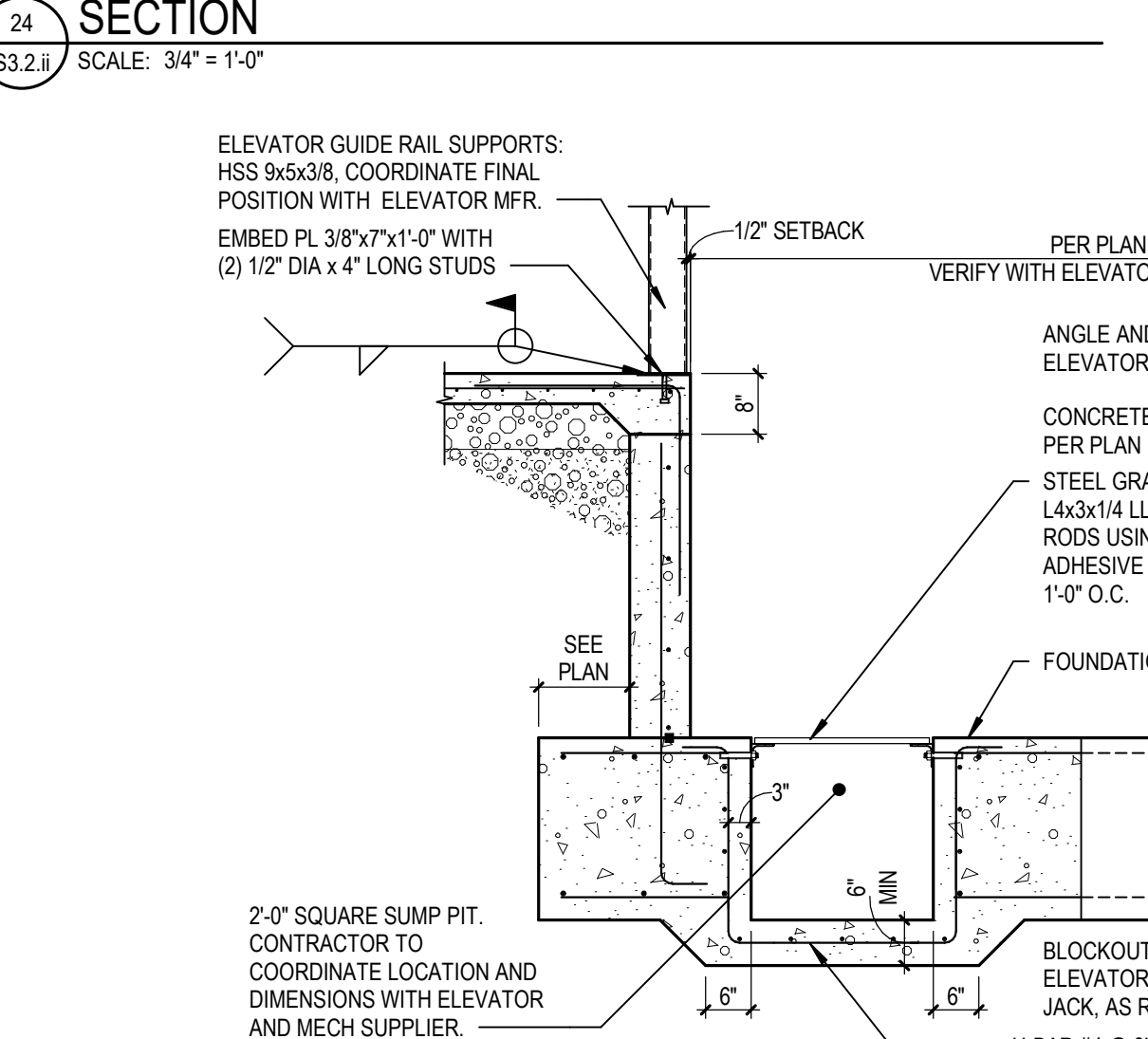
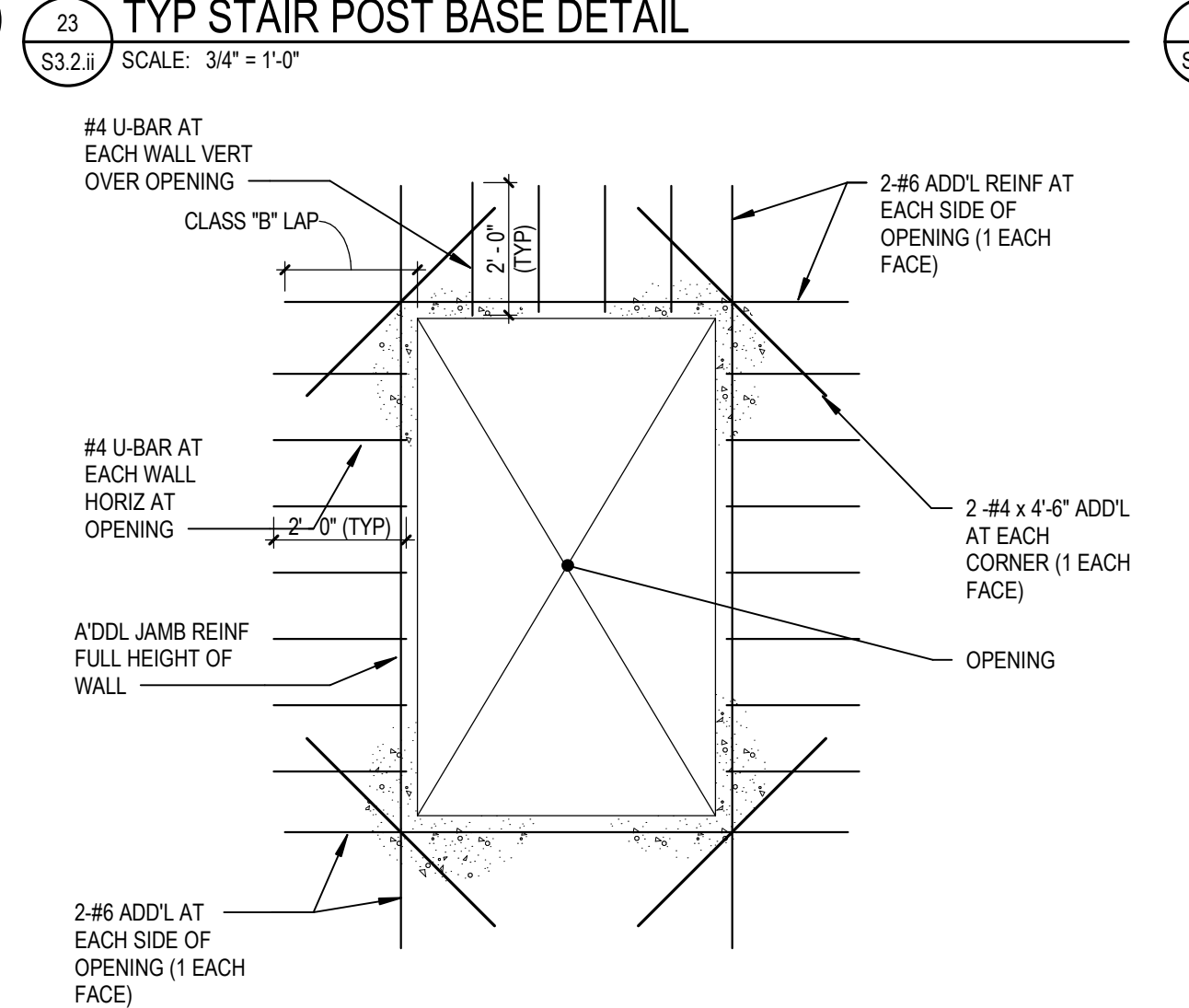
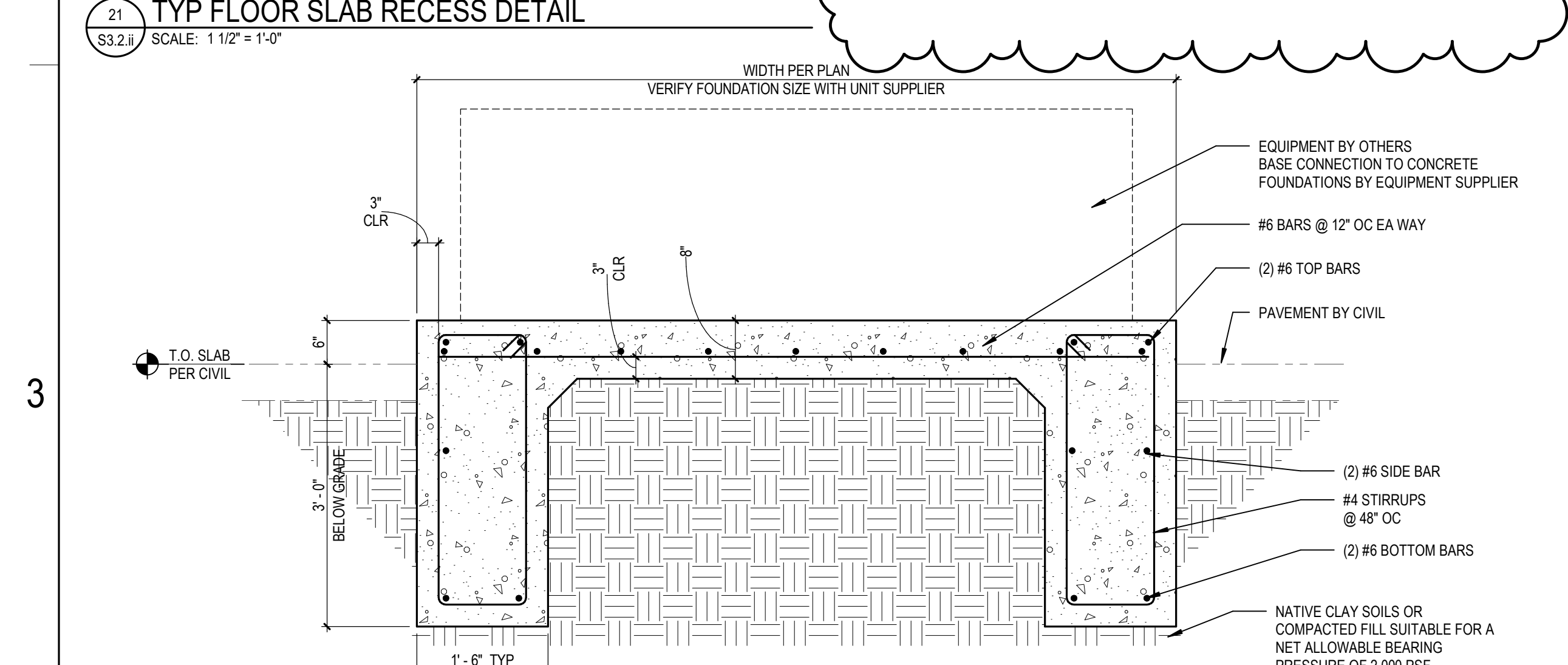
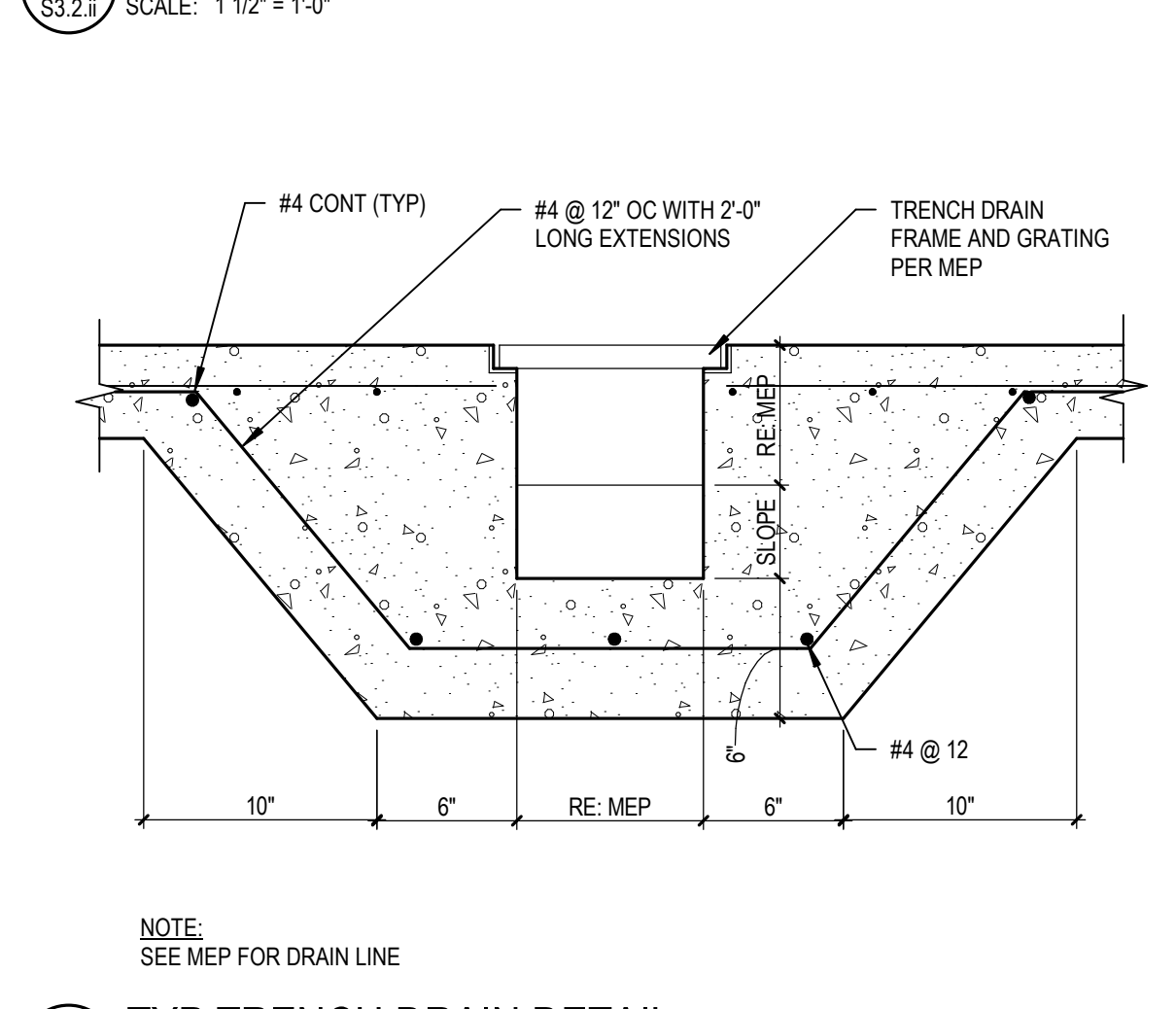
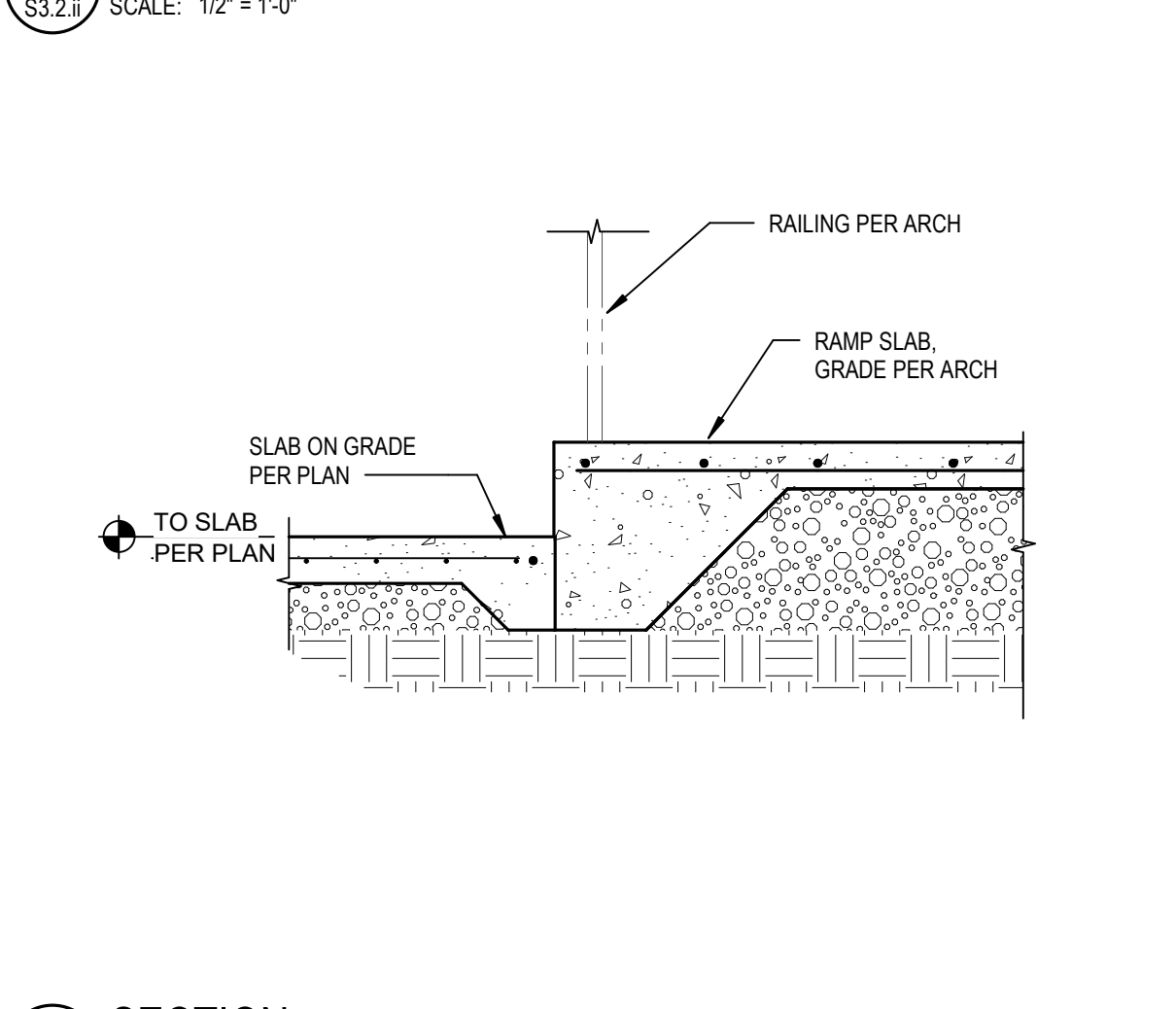
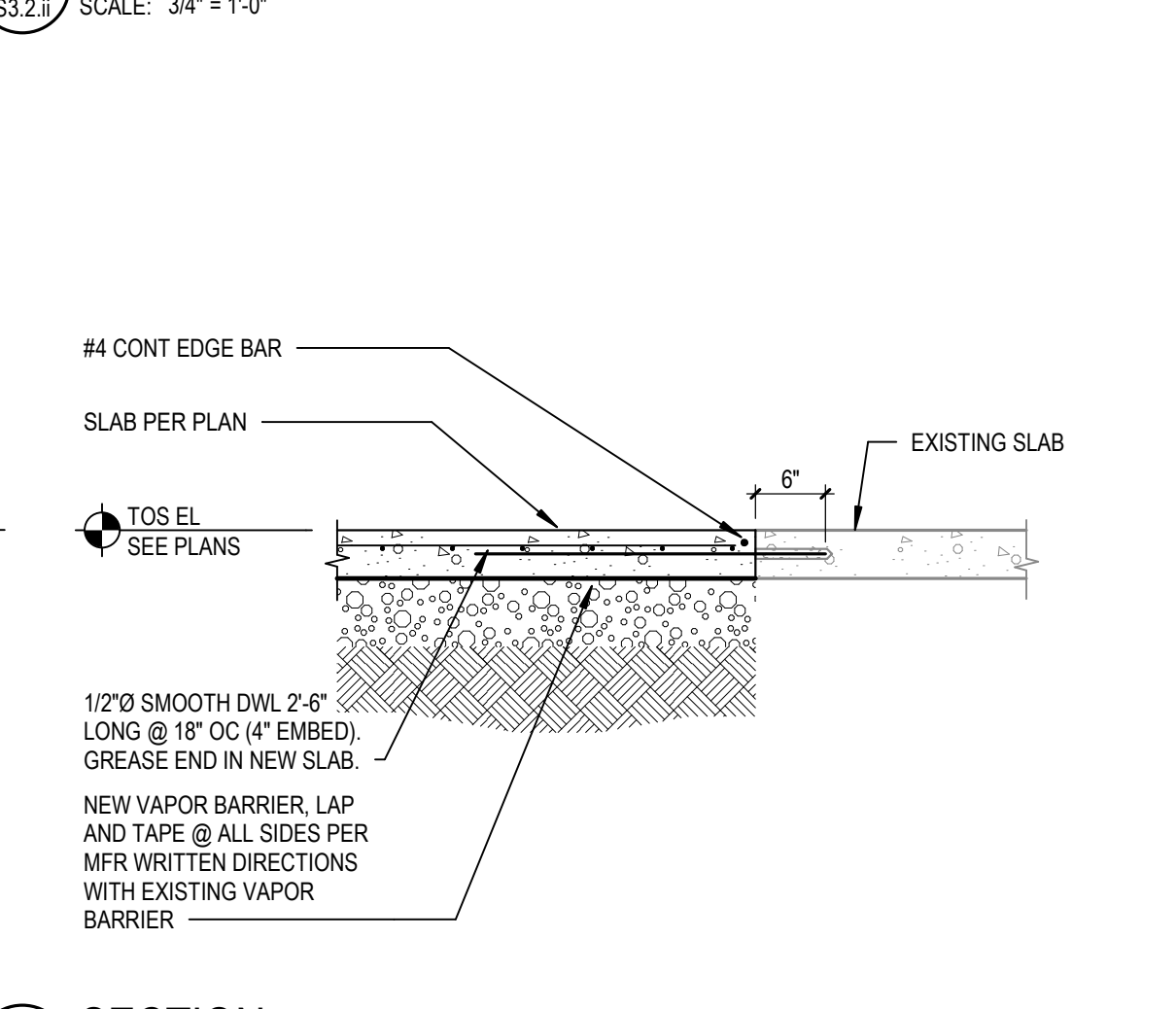
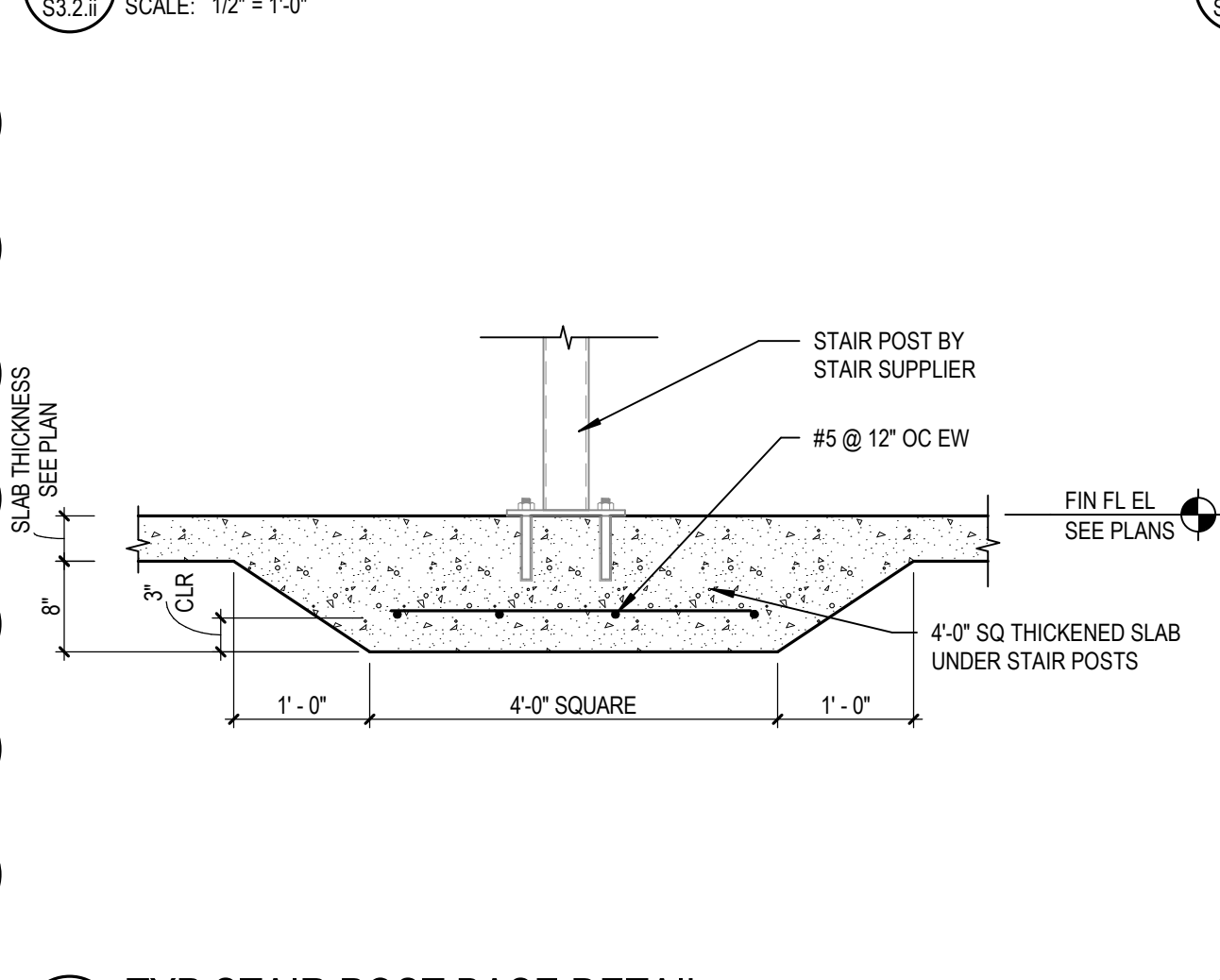
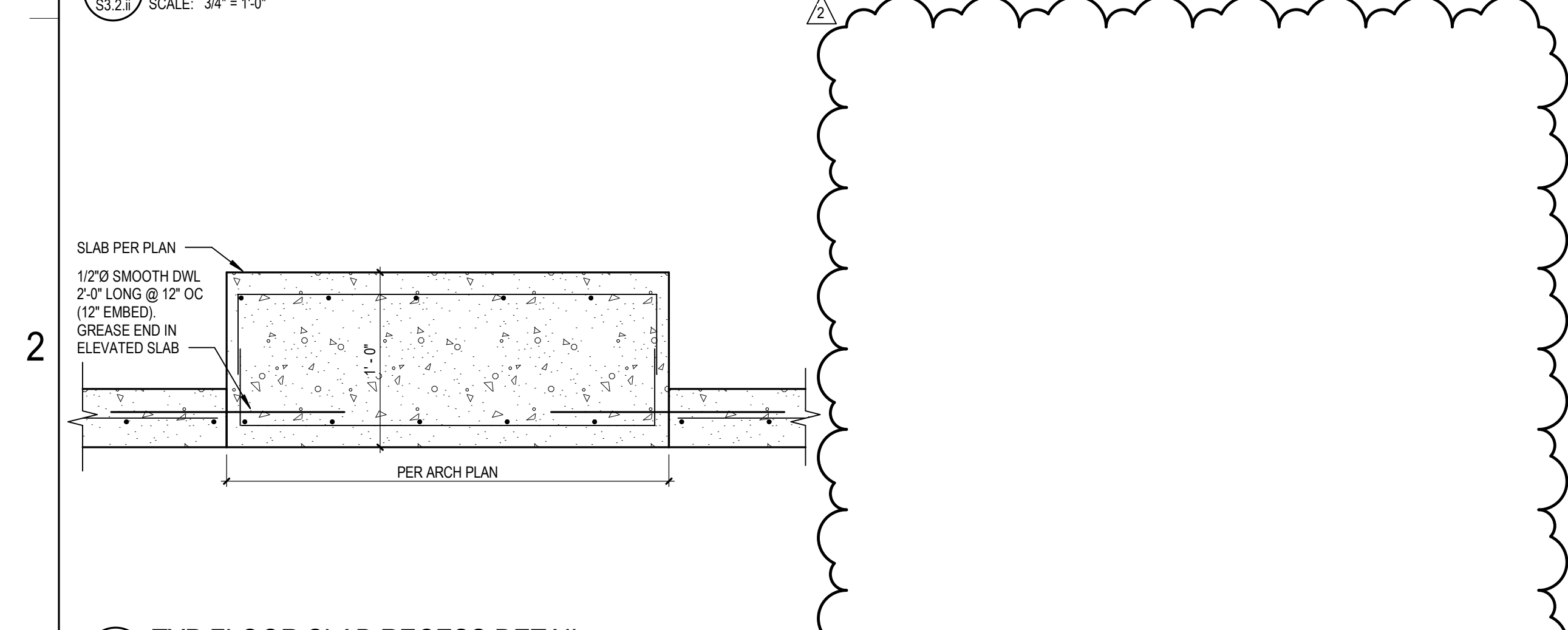
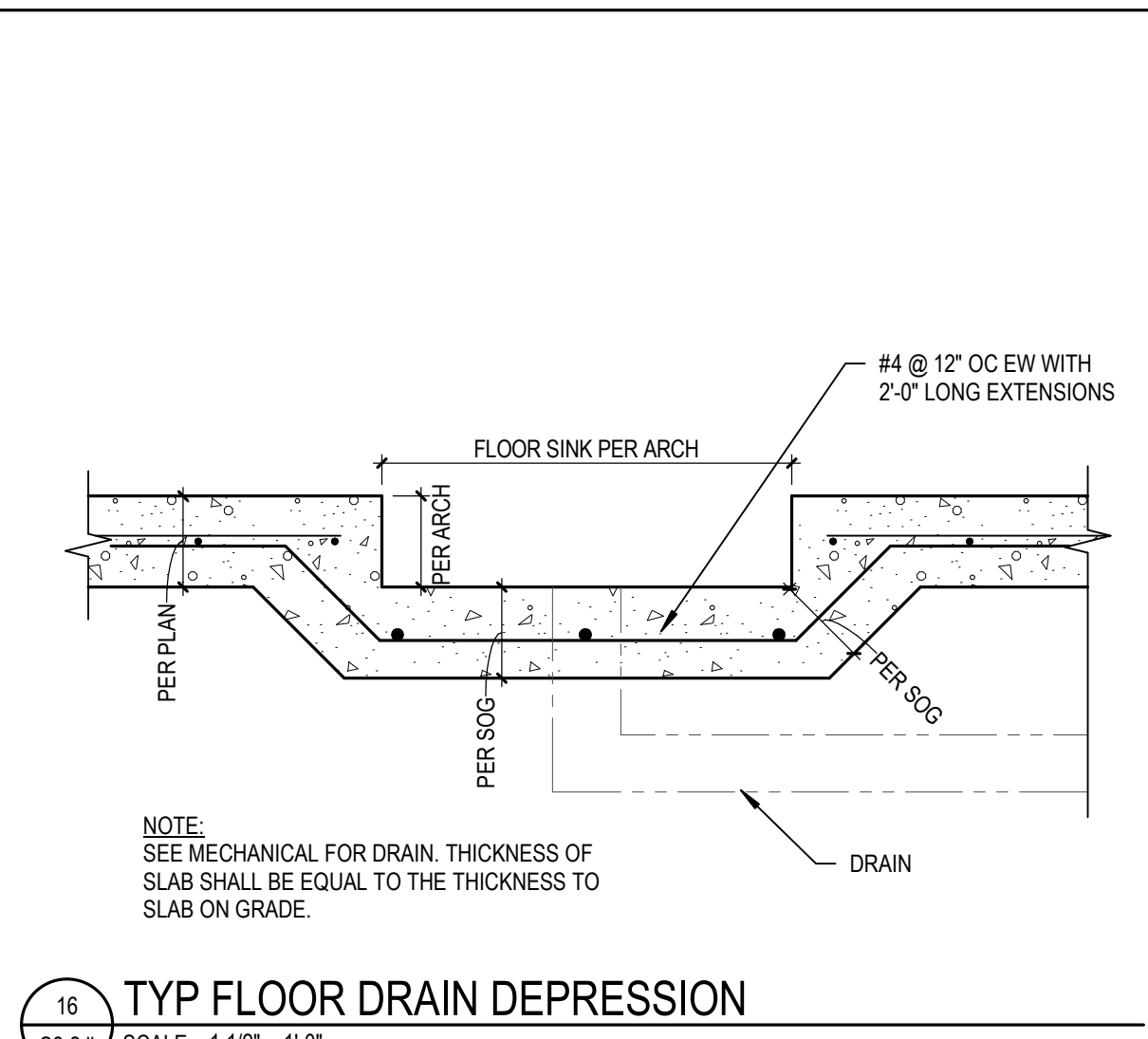
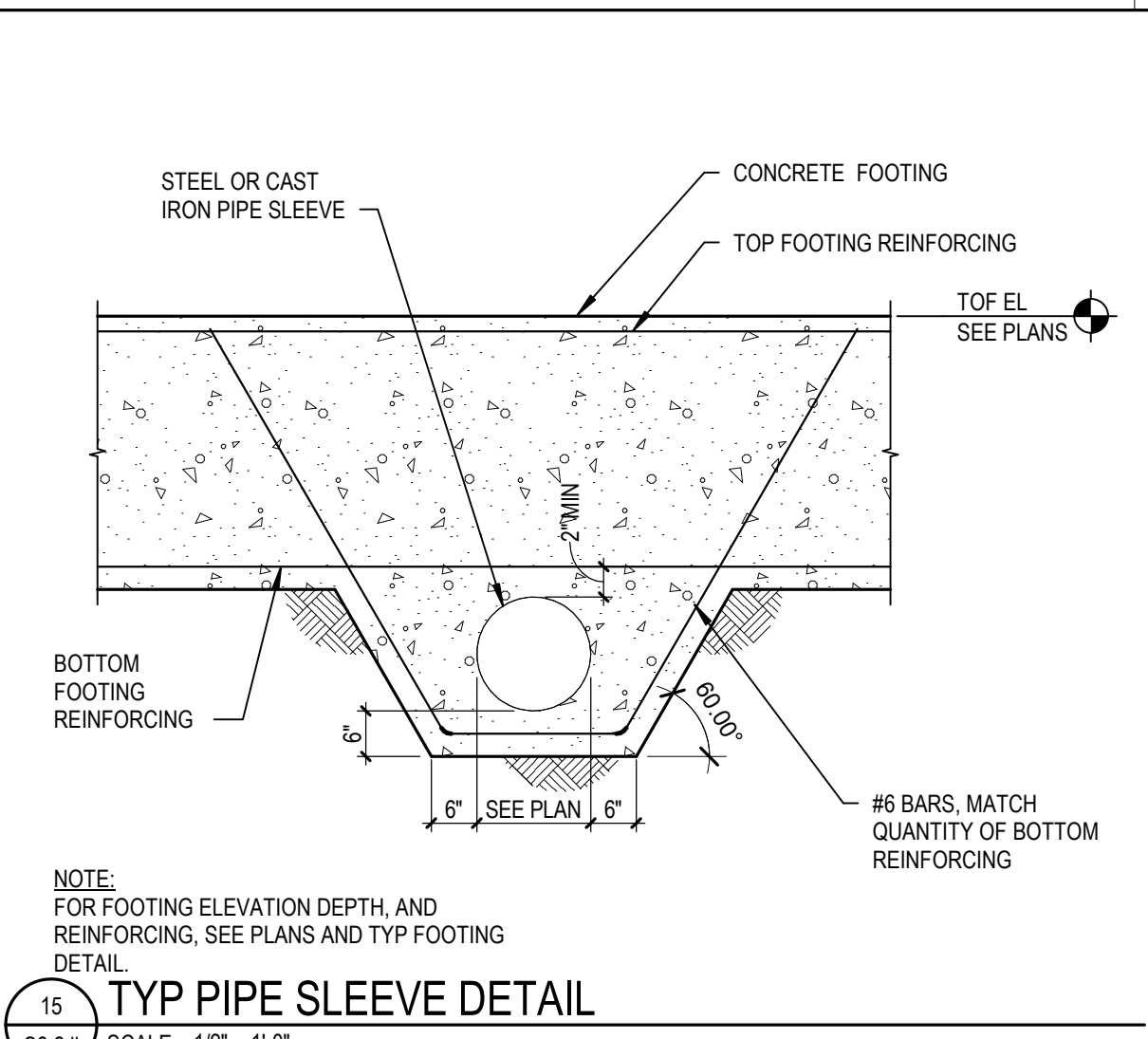
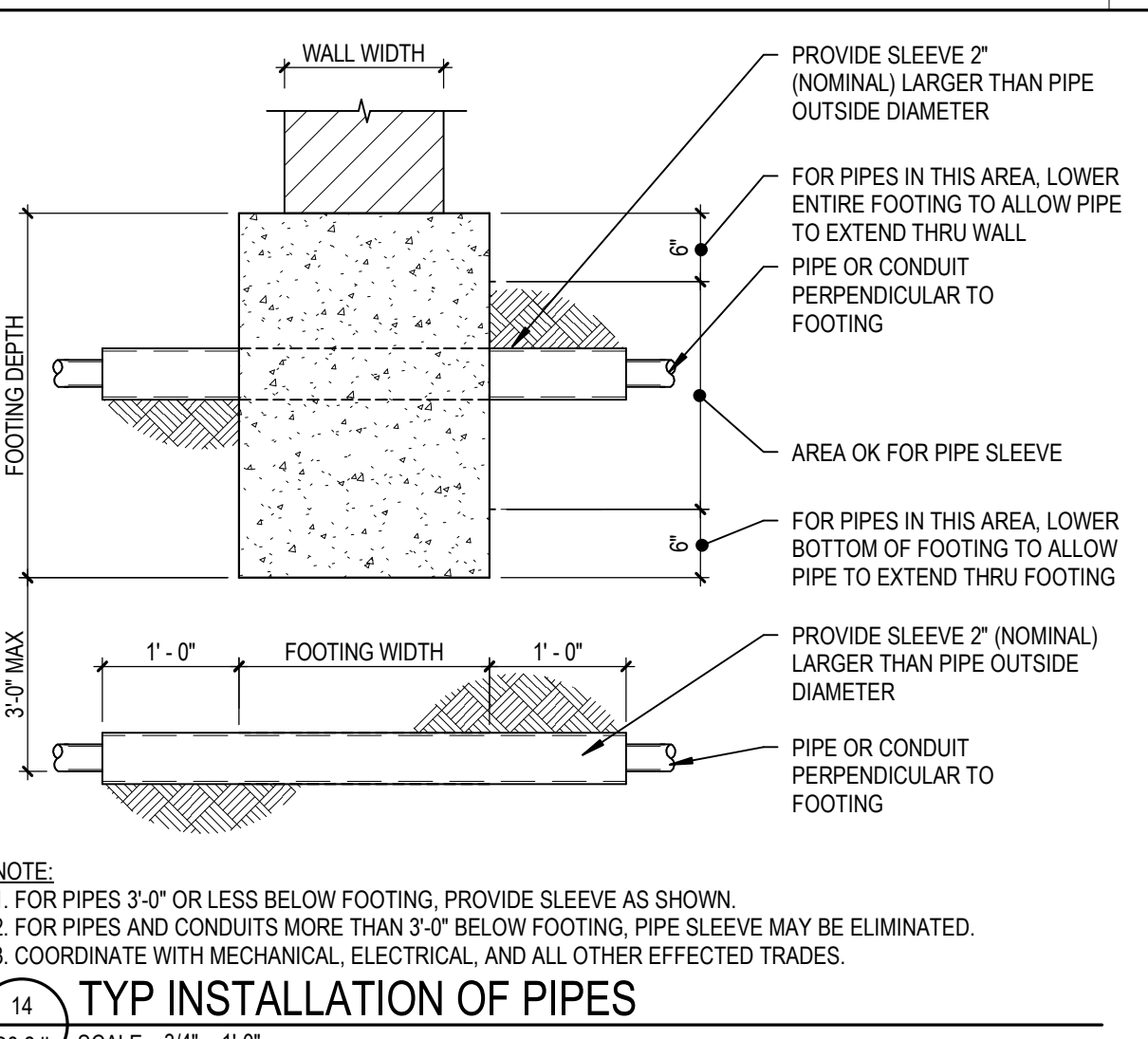
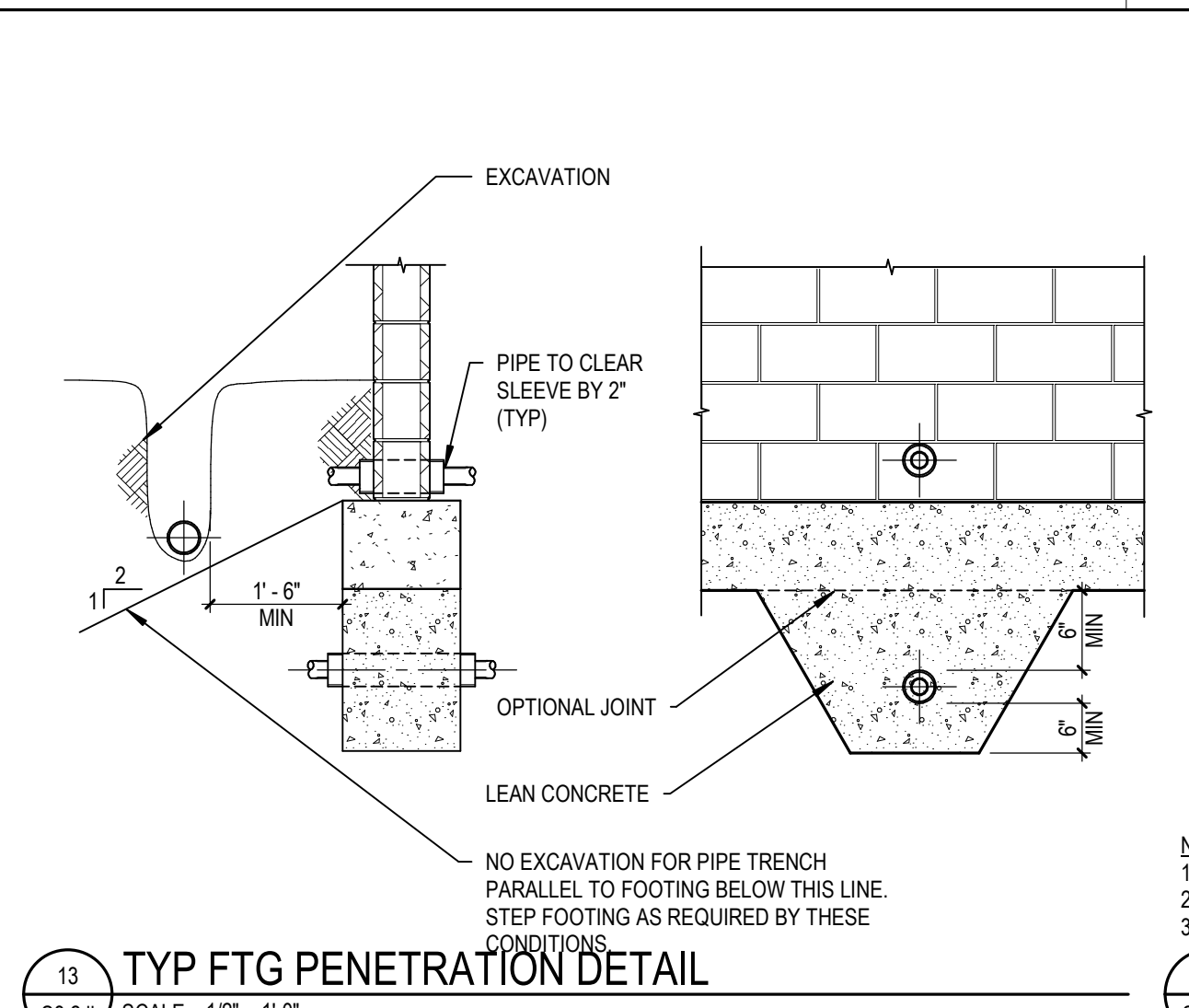
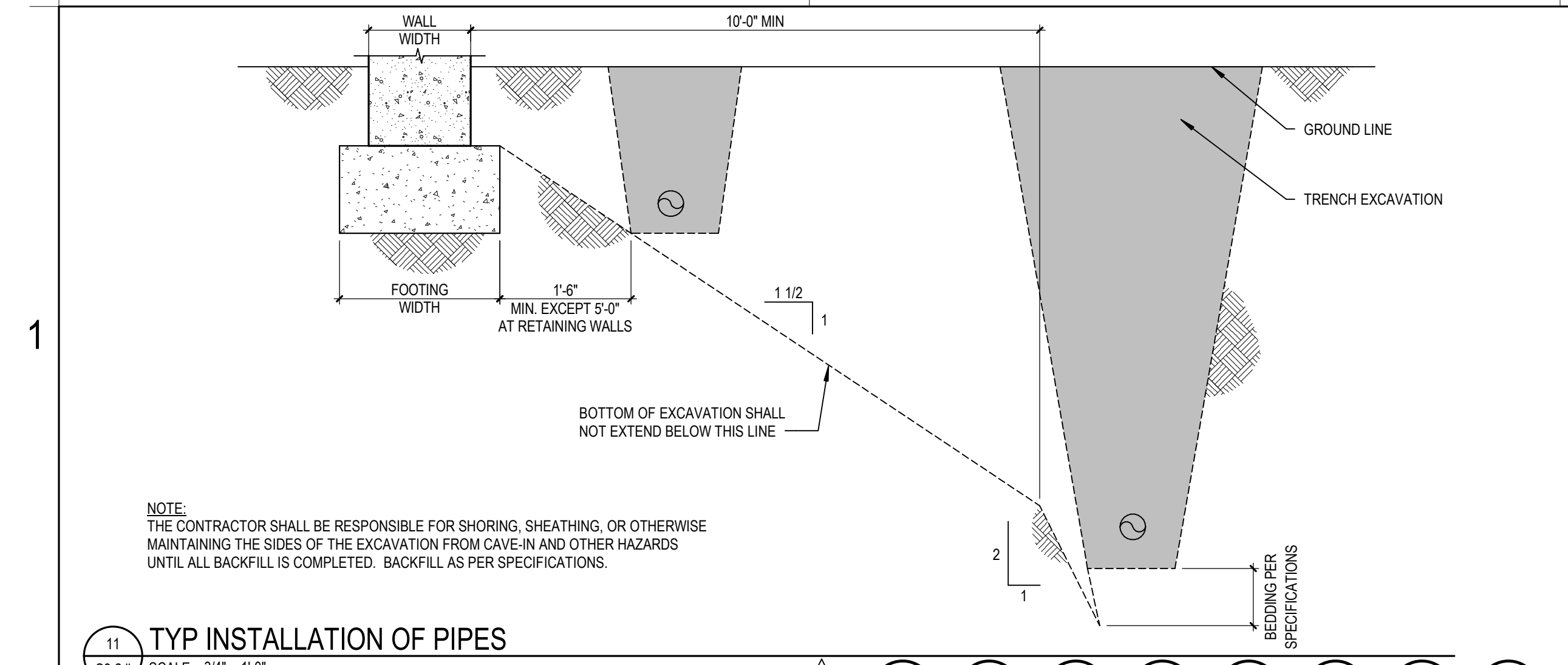


REBID DUTCHESS STADIUM NEW LEFT FIELD CLUBHOUSE, SEATING BOWL, & RESTROOM BUILDING
OWNER: DUTCHESS COUNTY, 22 MARKET STREET Poughkeepsie, NY 12601
1500 ROUTE 90, FISHKILL, NY 12590

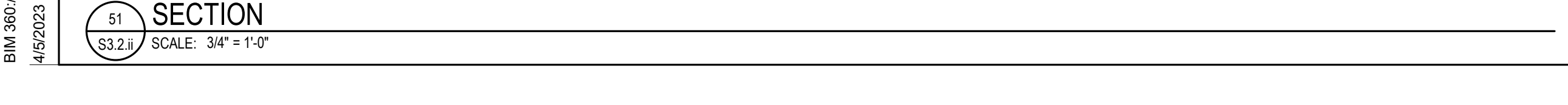
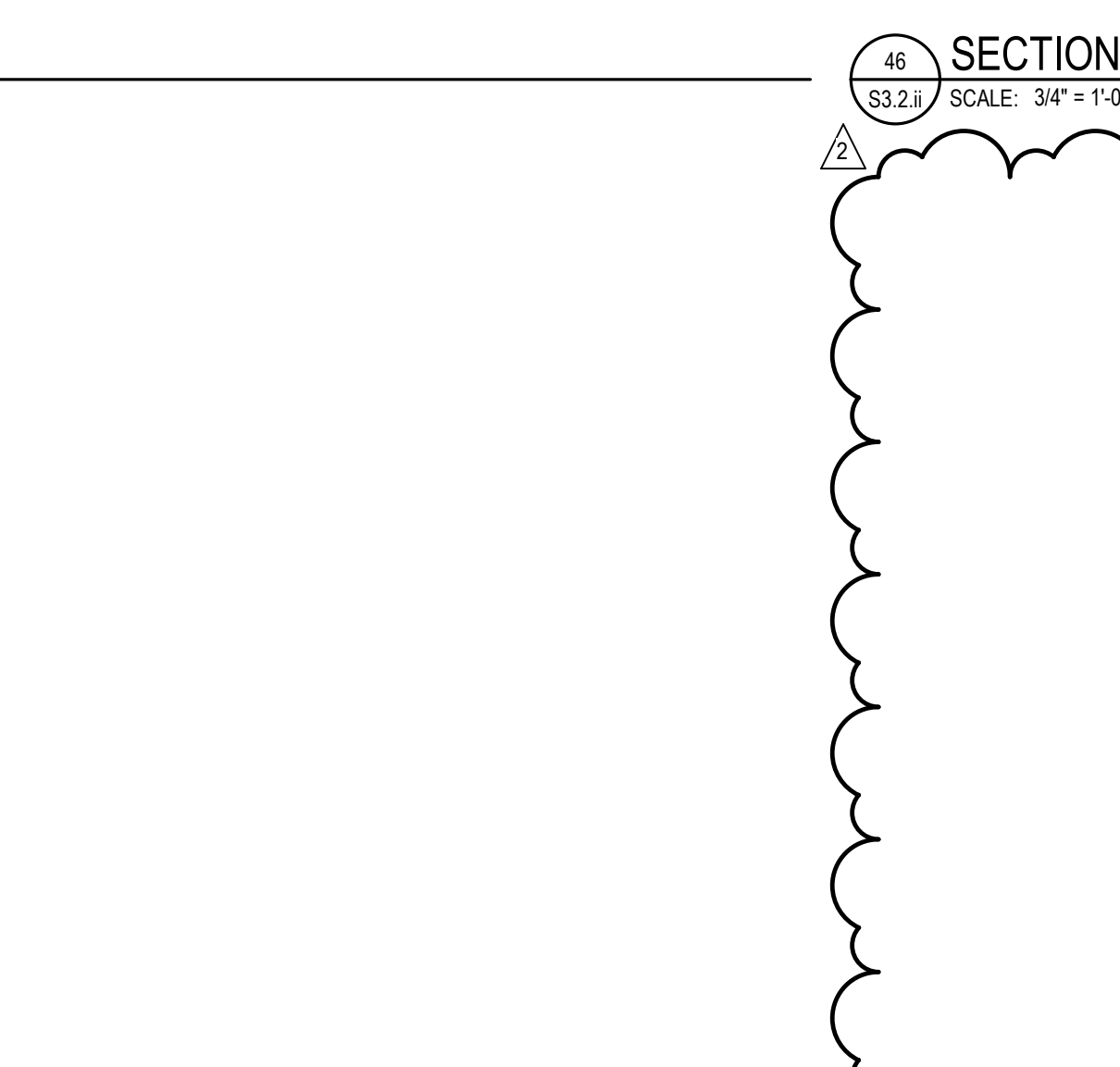
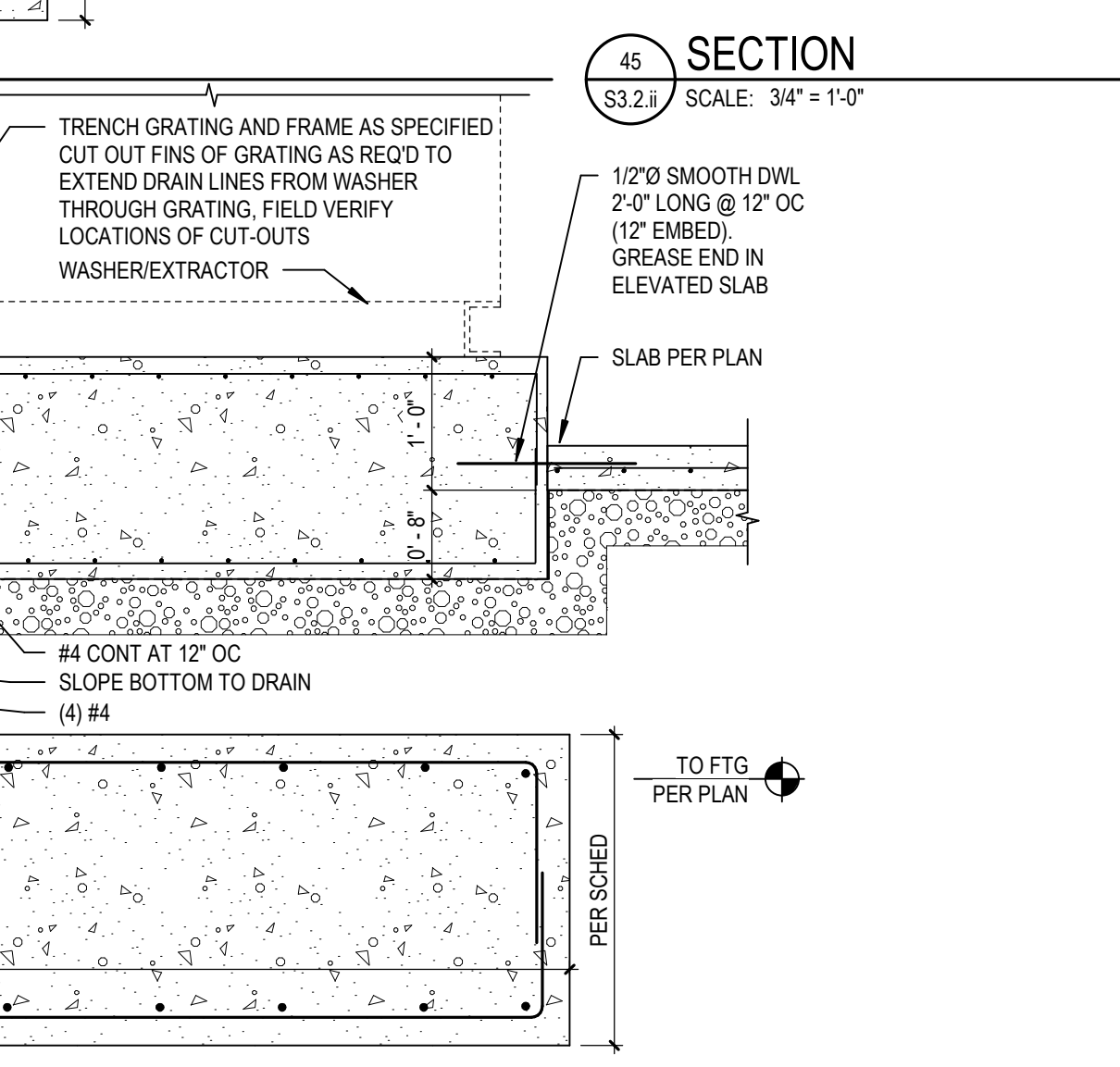
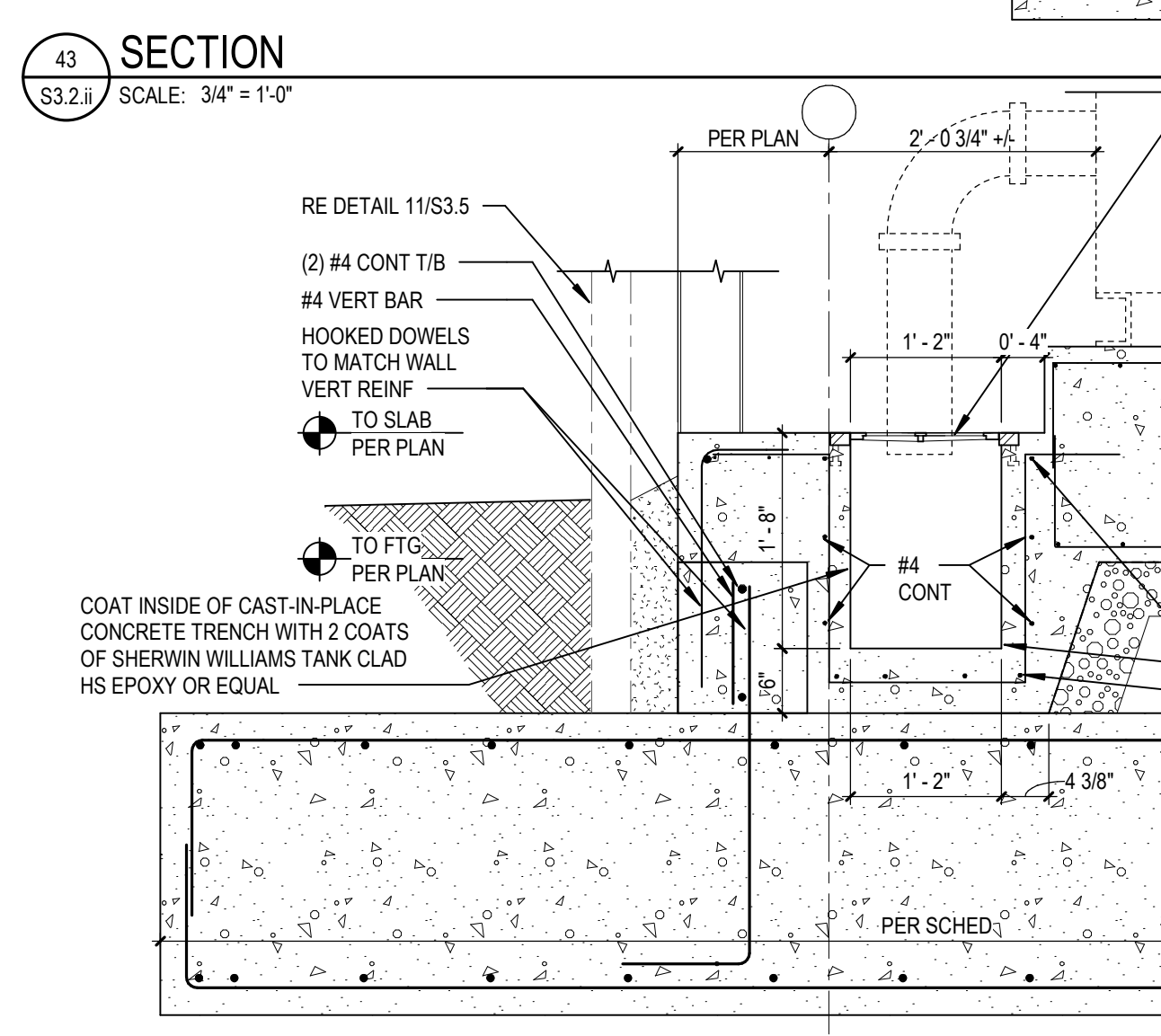
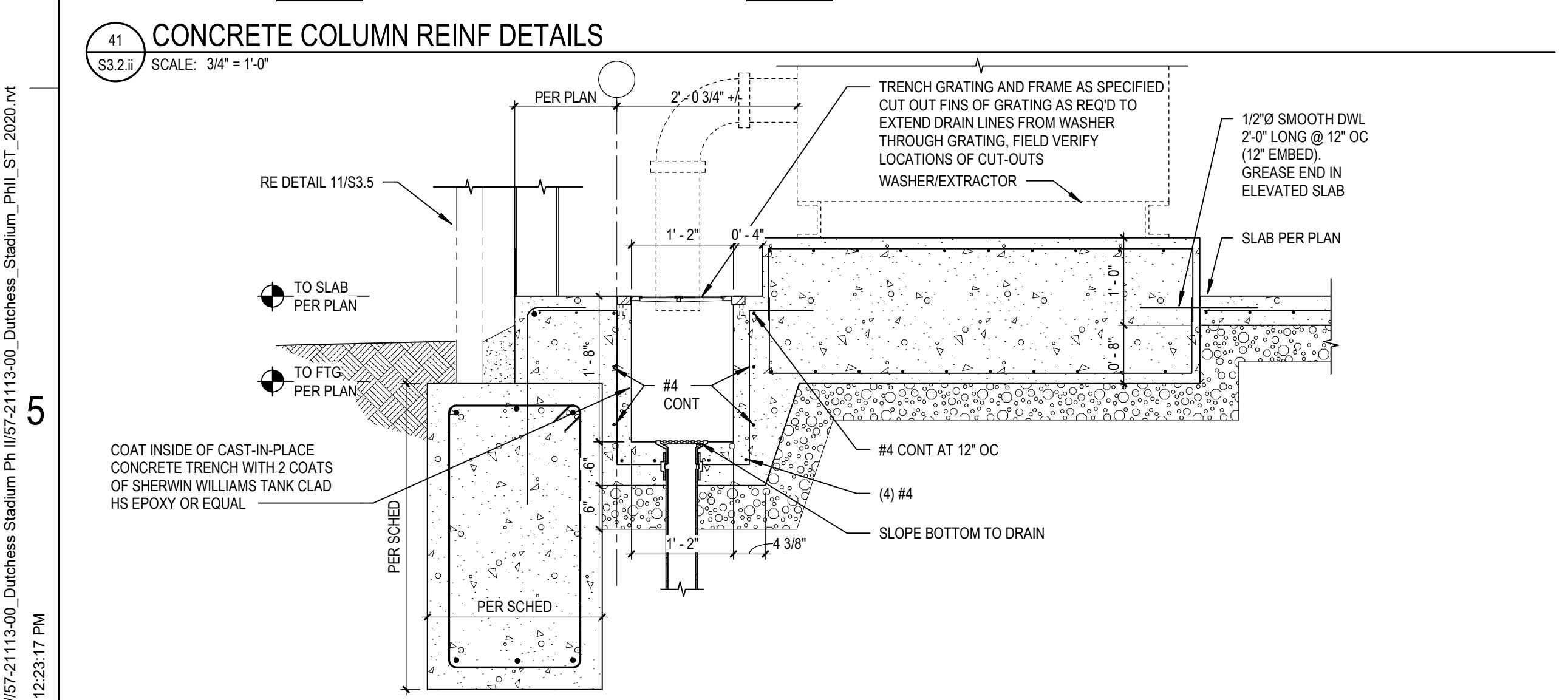
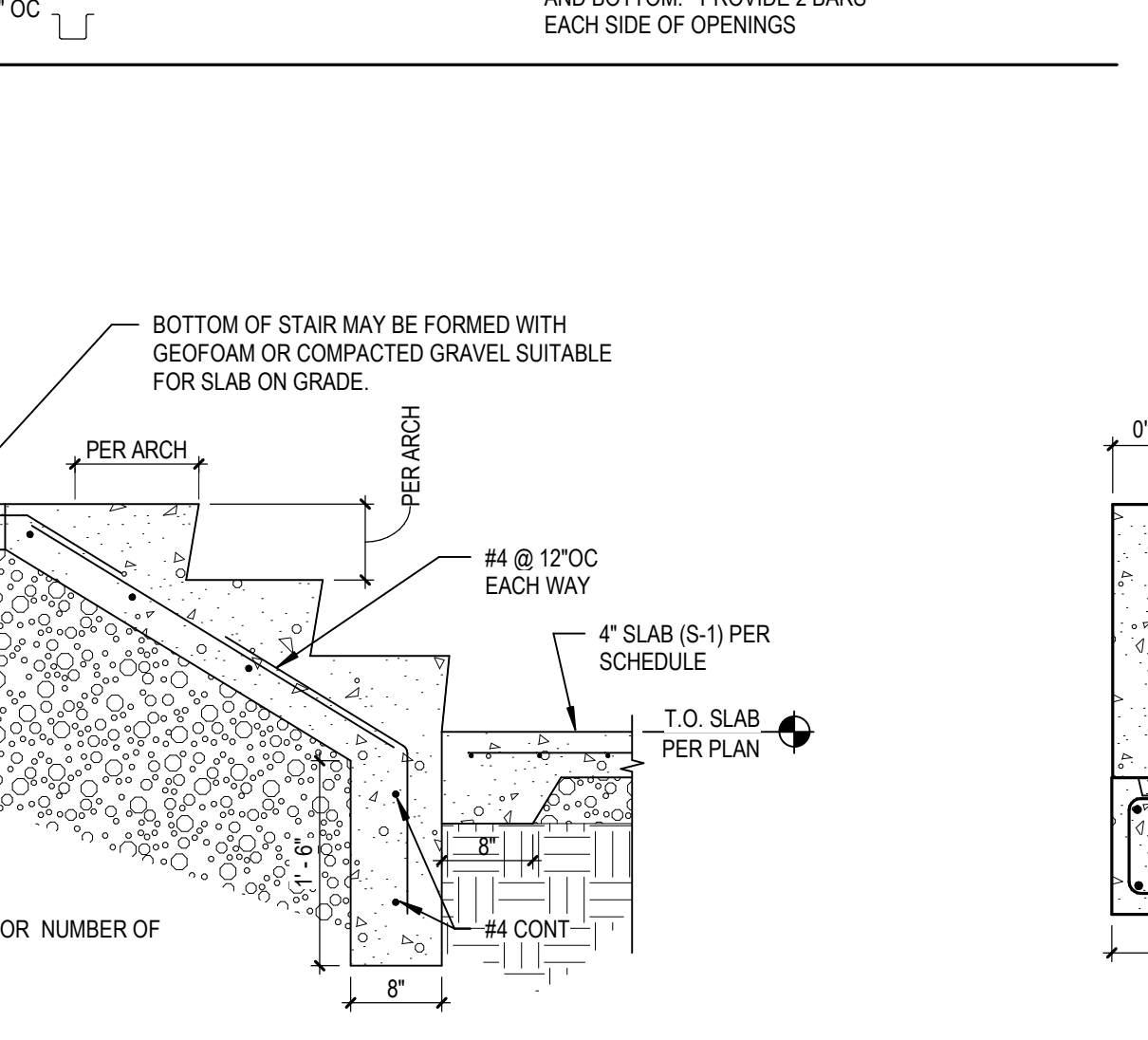
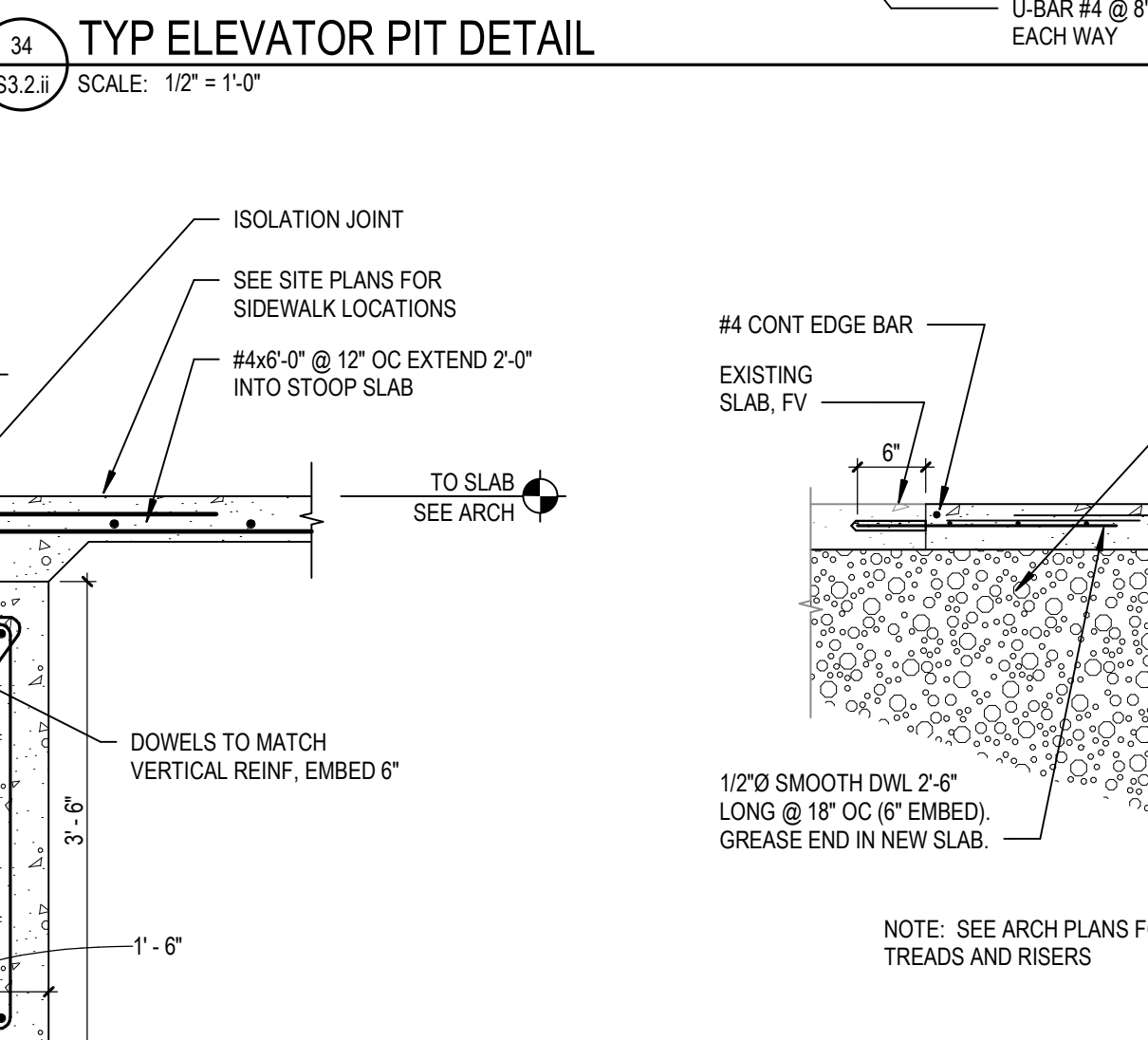
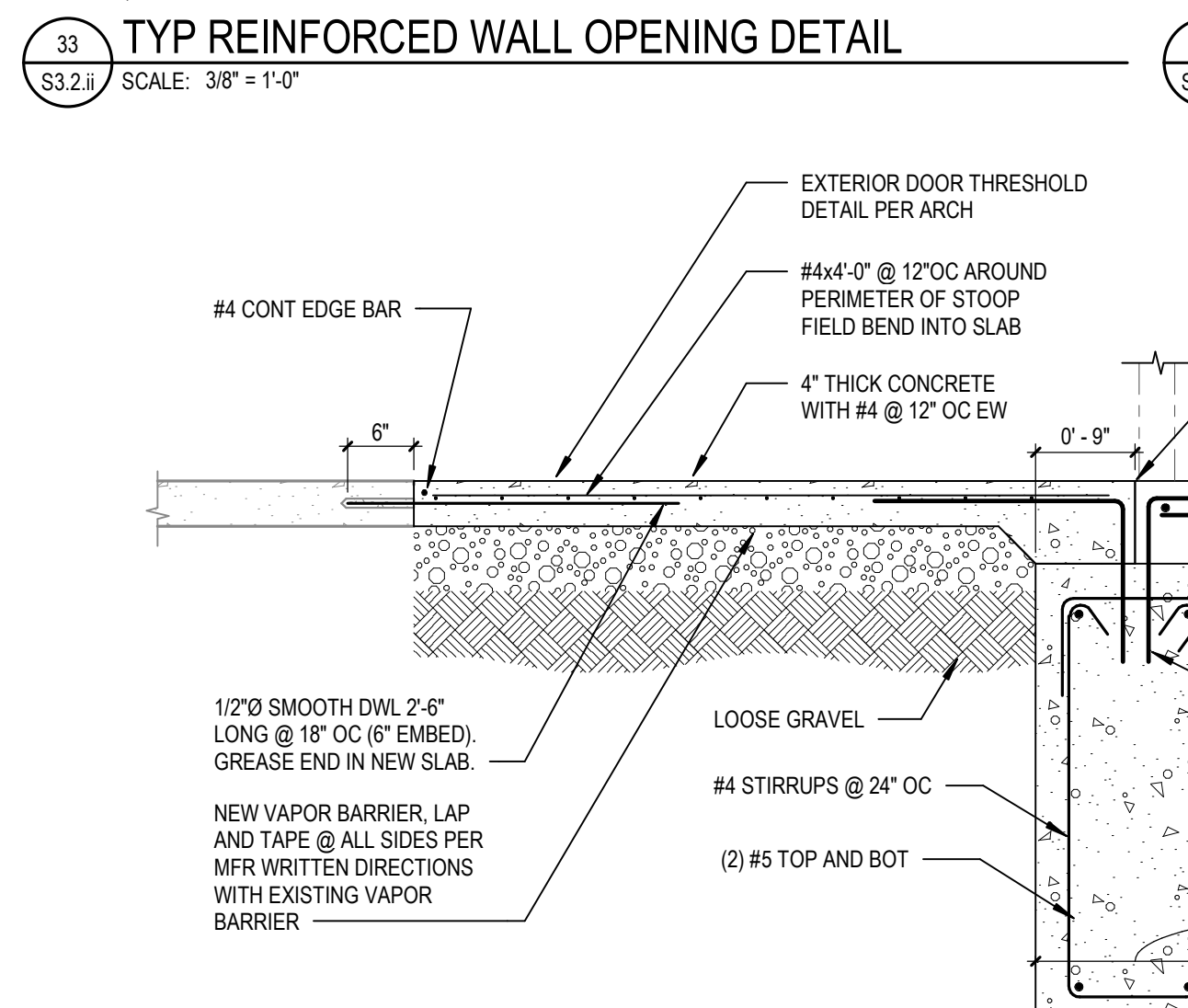
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11.04.22
REVISIONS
1 CONSTRUCTION DOCS 03.06.23
2 ASH/01 04.07.23

57-21113-00
FOUNDATION PLAN

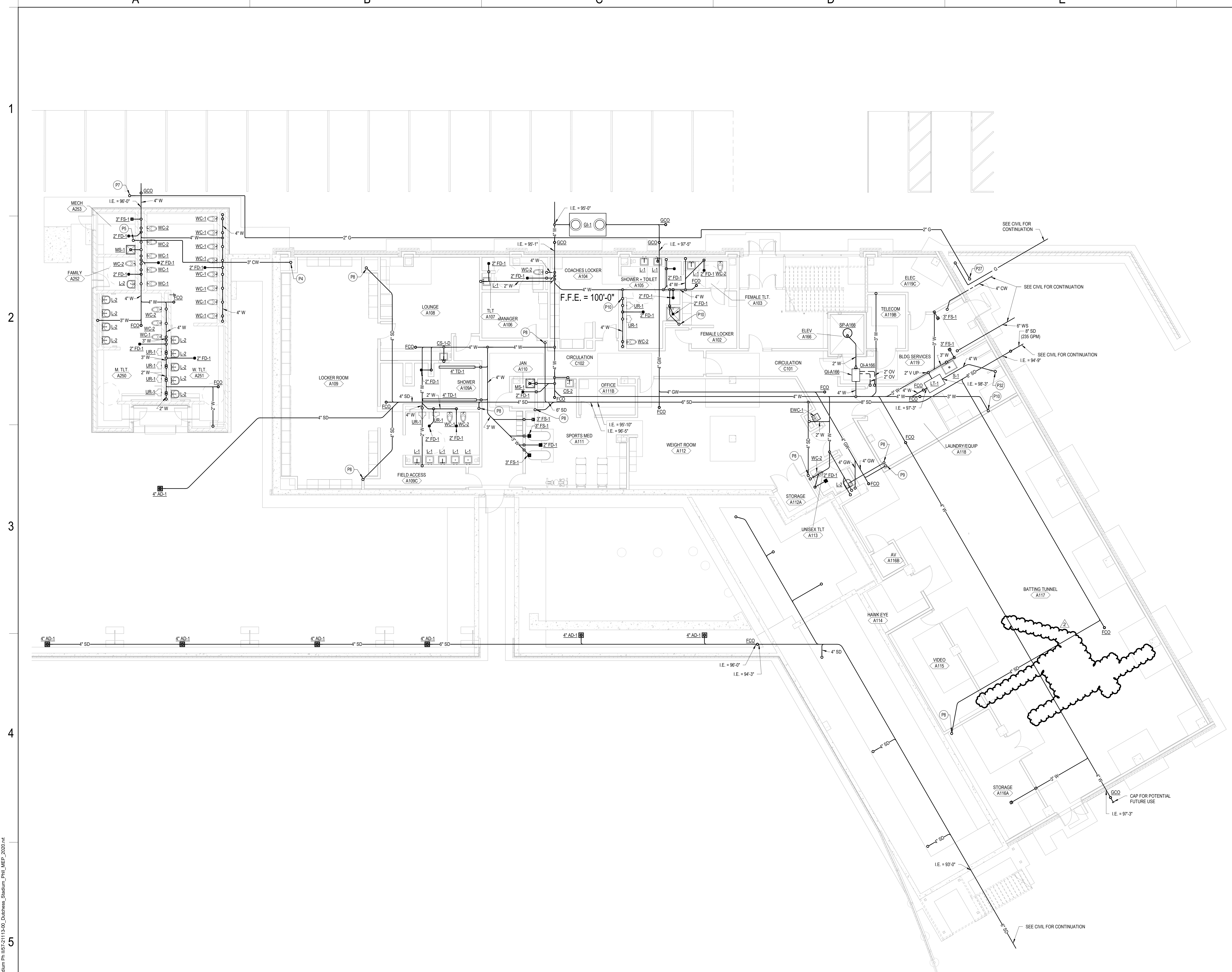
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MARK	TYPE	SIZE	REINFORCEMENT
CC-1	TYPE 1	18" x 18"	(8) #9 VERT, #4 TIES @ 16" OC
CC-2	TYPE 2	18" x 18"	(12) #7 VERT, #5 TIES @ 14" OC
CC-3	TYPE 3	24" x 24"	(16) #10 VERT, #5 TIES @ 14" OC
CC-4	TYPE 3	24" x 24"	(16) #9 VERT, #4 TIES @ 16" OC
CC-5	TYPE 4	18" x 12"	(6) #9 VERT, #4 TIES @ 12" OC



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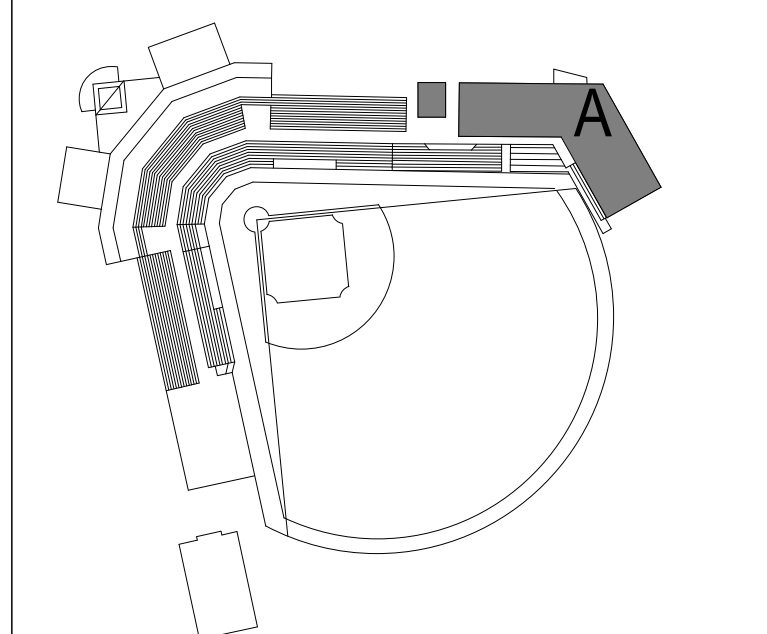
GENERAL NOTES

A FOR SYMBOLS AND ABBREVIATIONS SEE DRAWING P0.1.

SHEET NOTES

- P4 DOMESTIC COLD WATER DOWN FROM ABOVE SLAB. SEE P2.1A.II FOR CONTINUATION.
- P5 DOMESTIC COLD WATER UP TO ABOVE SLAB. SEE P2.2A.II FOR CONTINUATION.
- P7 NATURAL GAS UP TO ABOVE GRADE AND LEVEL ABOVE. SEE P2.2A.II FOR CONTINUATION.
- P8 STORM DRAINAGE DOWN FROM ABOVE SLAB. SEE P2.1A.II FOR CONTINUATION.
- P9 GREASE WASTE DOWN FROM ABOVE SLAB. SEE P2.1A.II FOR CONTINUATION.
- P10 SANITARY DOWN FROM ABOVE SLAB. SEE P2.1A.II FOR CONTINUATION.
- P27 2" GAS PIPING DOWN FROM ABOVE. SEE P2.1A.II FOR CONTINUATION.
- P32 4" SANITARY UP TO TRENCH DRAIN. REFER TO STRUCTURAL DRAWINGS AND DETAIL 51/53.2.II FOR ADDITIONAL INFORMATION.

KEY PLAN



UNDERGROUND PLUMBING PLAN - AREA A
SCALE: 1/8" = 1'-0"

DLR Group
© DLR Group

REBID DUTCHESS STADIUM NEW LEFT FIELD CLUBHOUSE, SEATING BOWL, & RESTROOM BUILDING
OWNER: DUTCHESS COUNTY, 22 MARKET STREET POUGHKEEPSIE, NY 12601
1500 ROUTE 90, FISHKILL, NY 12530

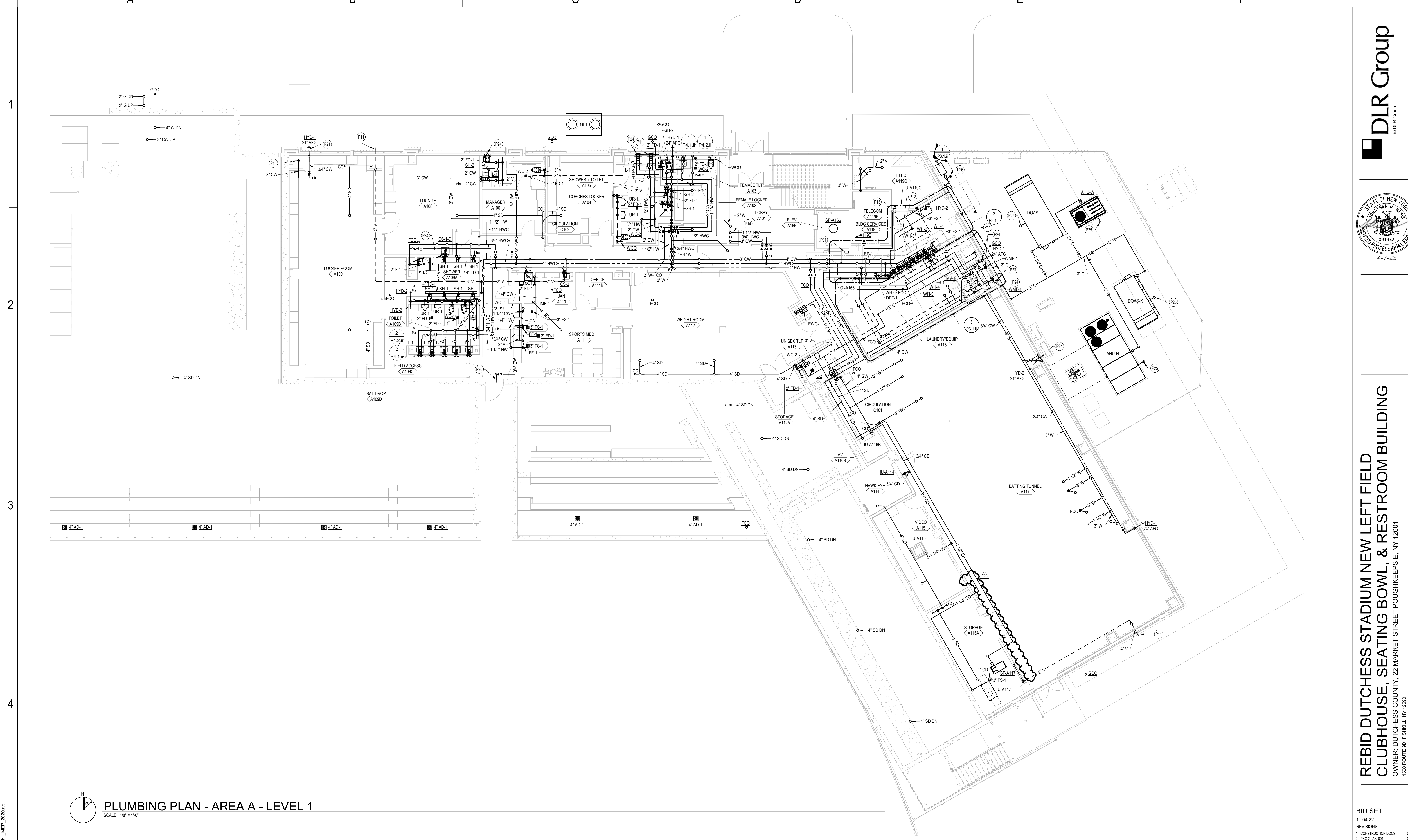
BID SET
11.04.22

REVISIONS

1	CONSTRUCTION DOCS	03.06.23
2	PKG 2 - ASI 001	04.07.23

57-21113-00
UNDERGROUND PLUMBING PLAN - AREA A
P1.1A.ii

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PLUMBING PLAN - AREA A - LEVEL 1
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A FOR SYMBOLS AND ABBREVIATIONS SEE DRAWING P0.1.

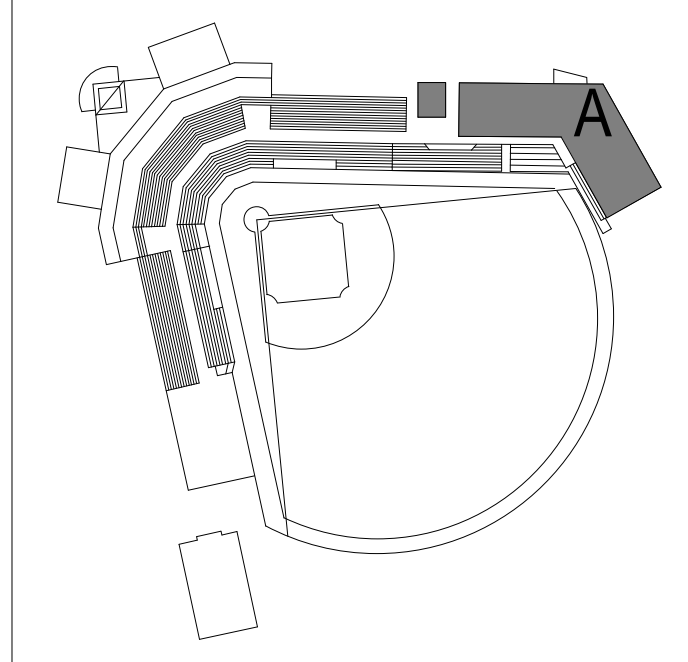
SHEET NOTES

- P11 4" SANITARY VENT TERMINATION. PROVIDE WITH 45° ELBOW WITH BIRD SCREEN.
- P12 DOMESTIC COLD WATER UP TO LEVEL ABOVE. SEE P2.2A.I FOR CONTINUATION.
- P13 NATURAL GAS UP TO LEVEL ABOVE.
- P14 DOMESTIC COLD AND HOT WATER UP TO LEVEL ABOVE AND DOMESTIC HOT WATER RECIRCULATION DOWN FROM LEVEL ABOVE. SEE P2.2A.I FOR CONTINUATION.
- P15 DOMESTIC COLD WATER DOWN TO BELOW GRADE. SEE P1.1A.II FOR CONTINUATION.
- P20 3/4" DOMESTIC COLD WATER TO WALL HYDRANT ABOVE SEATING BOWL WALKWAY ON LEVEL ABOVE. INSTALL SO THAT PIPING IS TIGHT TO BOTTOM OF STRUCTURE. SEE P2.2A.II FOR CONTINUATION.
- P21 WALL HYDRANT TO FUNCTION AS MAIN BUILDING BLOW DOWN CONNECTION. REFER TO DETAIL 1E.PS.I.II FOR ADDITIONAL INFORMATION.
- P23 4" OIL SEPARATOR VENT TERMINATIONS. PROVIDE WITH 45° ELBOW WITH BIRD SCREEN. INSTALL VENTS PER OIL SEPARATOR MANUFACTURER'S INSTRUCTIONS.
- P24 ALL PLUMBING PIPING IN THIS EXTERIOR WALL TO BE INSTALLED ON INTERIOR SIDE OF INSULATION.

SHEET NOTES

- P25 DRAIN CONDENSATE TO GRAVEL SURROUNDING CONCRETE EQUIPMENT PADS IN MECHANICAL YARD. CONDENSATE PIPING TO BE COPPER.
- P26 2" GAS PIPING DOWN TO BELOW GRADE. SEE P1.1A.II FOR CONTINUATION.
- P31 INSTALL SUMP PUMP SIMPLEX ALARM PANEL IN THIS LOCATION.
- P34 CONNECT DISHWASHER DRAIN TO SINK SANITARY. REFER TO DETAIL 5A.PS.1.A.

KEY PLAN



BID SET

11.04.22	
REVISIONS	
1 CONSTRUCTION DOCS	03.06.23
2 PKG 2 - ASI 001	04.07.23

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A

B

C

D

E

F

THERMOSTATIC MIXING VALVE SCHEDULE

GENERAL:
A. BASIS OF DESIGN MODEL NUMBERS ARE FOR REFERENCE ONLY. BID EQUIPMENT TO PROVIDE THE INDICATED PERFORMANCE.

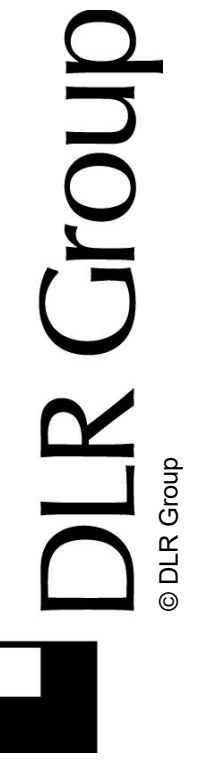
ID	LOCATION			QTY	MATERIAL	FINISH	TYPE	FLUID DATA					VALVE DATA			SPECIFICATION	BASIS OF DESIGN			
	NO.	NAME						LVG WATER TEMP SETPOINT (°F)	ENT WATER TEMP (°F)		FLOW (GPM)	MIN FLOW (GPM)	MAX PRESS DROP (PSI)	CONN SIZE (IN)	MAX ALLOW WORKING PRESS (PSI)		MAX ALLOW WORKING TEMP (°F)	MANUFACTURER	MODEL	
TMV-1	A119	BLDG SERVICES		1	BRONZE	BRONZE	DOM. WATER	110	140	50	32	0.3	3	2"	2"	125 psi	185	ASSE 1017 COMPLIANT DIGITAL MIXING VALVE	LEONARD	NV-200-LF

LINT INTERCEPTOR SCHEDULE

GENERAL:
A. BASIS OF DESIGN MODEL NUMBERS ARE FOR REFERENCE ONLY. BID EQUIPMENT TO PROVIDE THE INDICATED PERFORMANCE.

NOTES:
1. PROVIDE WITH EXTENSION AS NECESSARY FOR RECESSED INSTALLATION WITH TOP FLUSH WITH FINISHED FLOOR.
2. PROVIDE WITH FLOW CONTROL FITTING.

ID	LOCATION			TYPE	MATERIAL DESCRIPTION	DESIGN FLOW RATE (GPM)	PIPE CONNS (IN)		DIMENSIONS (FT-IN)			WEIGHT (LBS)	BASIS OF DESIGN		NOTES
	NO.	NAME					INLET	OUTLET	LENGTH	WIDTH	HEIGHT		MANUFACTURER	MODEL	
LT-1	A118	LAUNDRY/EQUIP		RECESSED LINT TRAP	STEEL	110	4"	4"	4'-3"	2'-8"	3'-8"	530	JAY R SMITH	8910-150	1,2



REBID DUTCHESS STADIUM NEW LEFT FIELD CLUBHOUSE, SEATING BOWL, & RESTROOM BUILDING
 OWNER: DUTCHESS COUNTY, 22 MARKET STREET POUGHKEEPSIE, NY 12601
 1500 ROUTE 90, FISHKILL, NY 12590

BID SET
 11.04.22
 REVISIONS
 1 CONSTRUCTION DOCS 03.06.23
 2 PKG 2 - ASI 001 04.07.23

57-21113-00
 PLUMBING SCHEDULES

1

2

3

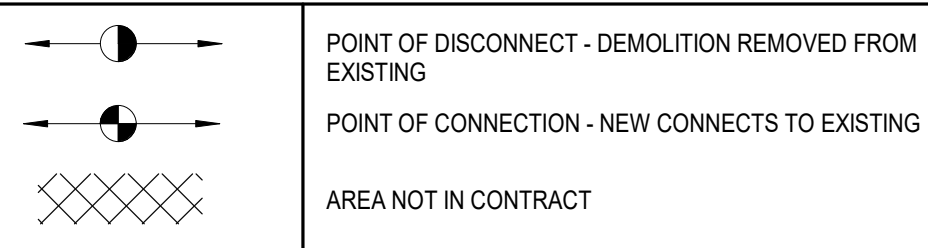
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5

ABBREVIATIONS

Table of abbreviations and their full names, organized into columns A through F.

GENERAL SYMBOLS



MECHANICAL GENERAL NOTES:

- 1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. LOCATIONS OF EQUIPMENT AND ROUTING OF DUCTWORK AND PIPING PLANS ARE NOT MEANT TO BE SHOP DRAWINGS FROM WHICH MATERIALS CAN BE ORDERED OR INSTALLATION CAN BE ACCOMPLISHED WITHOUT FIELD MEASUREMENT AND COORDINATION BY THE CONTRACTOR...

Mechanical Compliance Statement box containing a signature and date for Jonathan Mesik - Mechanical Engineer, dated 3/28/2023.

HVAC SYMBOLS

Table of HVAC symbols including Schematic, 3D, and Description for various components like gas flue exhaust air, general exhaust air, relief air, smoke exhaust air, energy recovery air, return air, transfer air, combustion air, outside air, supply air, diffuser, grille, wall register, linear diffuser, air flow measuring station, backdraft damper, etc.

PIPING ANNOTATIONS

Table of piping annotations including Schematic, 3D, and Description for existing to remain, item to be demolished, pipe size tag, relief air, above ground piping, below ground piping, pipe slope, and pipe invert elevation.

MECHANICAL PIPING SYSTEMS

Table of mechanical piping systems including Schematic, 3D, and Description for Diesel Fuel Return, Diesel Fuel Supply, Diesel Fuel Vent, Fuel Oil Return, Fuel Oil Supply, Fuel Oil Vent, High Pressure Steam Return, High Pressure Steam Supply, Low Pressure Steam Return, Low Pressure Steam Supply, etc.

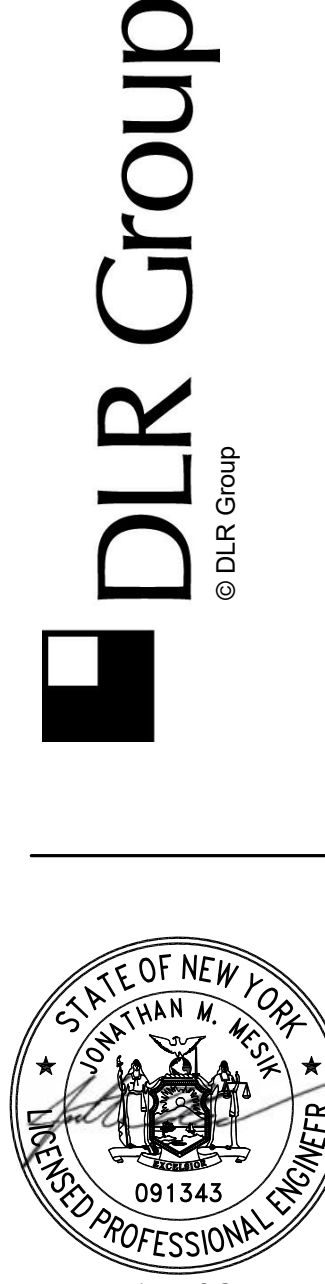
PIPING VALVES AND FITTINGS

Table of piping valves and fittings including Schematic, 3D, and Description for Pipe Drop, Pipe Rise, Pipe Tee Down, Pipe Tee Up, Concentric Reducer, Eccentric Reducer, Pipe Cap, Pipe Alignment Guide, Pipe Anchor, Flow Direction, Expansion Joint, Flexible Connection, Union, Direction of Pipe Pitch, Aquastat, Expansion Loop, Balancing Valve, etc.

SHEET INDEX

Sheet index table listing sheet numbers (M0.1.ii, M1.1A.i, M1.2A.i, M1.3.i, M3.1.i, M4.1.i, M5.1.i, M5.2.i, M7.1.i, M7.2.i, M7.3.i, M8.1.i, M8.2.i) and their corresponding titles.

NOTE: ALL NOTES ON THIS SHEET ARE APPLICABLE TO ALL OTHER SHEETS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE APPLICABLE IN THIS SET OF DRAWINGS.



4-7-23

REBID DUTCHESS STADIUM NEW LEFT FIELD CLUBHOUSE, SEATING BOWL, & RESTROOM BUILDING

OWNER: DUTCHESS COUNTY, 22 MARKET STREET Poughkeepsie, NY 12601

BID SET REVISIONS

57-21113-00

MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES

M0.1.ii

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GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

NOTES:
1. TO BE PAINTED TO MATCH ADJACENT SURFACE.
2. SEE PLANS FOR NECK SIZE.
3. PROVIDE AIR SCOOP DEVICE.
4. TO BE PAINTED TO MATCH DUCT.
5. SEE PLANS FOR FRAME SIZE.

ID	DESCRIPTION	MATERIAL	FINISH	QTY	FACE OR MODULE		BLADE DESIGN			ORIENTATION	INSTALLATION				OPTIONS			MAX NC	SPECIFICATION	BASIS OF DESIGN		NOTES
					WIDTH	HEIGHT	THICKNESS	SPACING	DEFLECTION		ANGLE	BORDER TYPE	DAMPER DESCRIPTION	EQUALIZING GRID	HEAVY DUTY FRAME	MANUFACTURER	MODEL					
D-1	PLAQUE FACE DIFFUSER	STEEL	WHITE ENAMEL	13	24"	24"					TYPE 3 (LAY-IN)	---	No	No	25	STEEL SQUARE PLAQUE FACE DIFFUSER	TITUS	OMNI	2			
D-2	PLAQUE FACE DIFFUSER	ALUMINUM	WHITE ENAMEL	13	24"	24"					TYPE 3 (LAY-IN)	---	No	No	25	ALUMINUM SQUARE PLAQUE FACE DIFFUSER	TITUS	OMNI-AA	2			
D-3	PLAQUE FACE DIFFUSER	ALUMINUM	WHITE ENAMEL	3	12"	12"					TYPE 1 (SURFACE)	---	No	No	25	ALUMINUM SQUARE PLAQUE FACE DIFFUSER	TITUS	OMNI-AA	2			
G-1	PERFORATED GRILLE	STEEL	WHITE ENAMEL	12	24"	24"					TYPE 3 (LAY-IN)	---	No	No	25	STEEL PERFORATED FACE GRILLE	TITUS	PAR	2			
G-2	PERFORATED GRILLE	ALUMINUM	WHITE ENAMEL	6							TYPE 1 (SURFACE)	---	No	No	25	ALUMINUM PERFORATED FACE GRILLE	TITUS	PAR-AA	2.5			
G-3	PERFORATED GRILLE	ALUMINUM	WHITE ENAMEL	7	24"	24"					TYPE 3 (LAY-IN)	---	No	No	25	ALUMINUM PERFORATED FACE GRILLE	TITUS	PAR-AA	2			
G-4	PERFORATED GRILLE	STEEL	WHITE ENAMEL	2							TYPE 1 (SURFACE)	---	No	No	25	STEEL PERFORATED FACE GRILLE	TITUS	PAR	2.5			
R-1	LOUVERED SINGLE DEFLECTION GRILLE	STEEL	PRIME	8			18"	12"	35.0°	0.0°	SINGLE-LONG	DUCT MOUNT	---	Yes	No	25	STEEL SINGLE DEFLECTION REGISTER	TITUS	35SRL	1.2,5		
R-2	HEAVY DUTY SINGLE DEFLECTION REGISTER	STEEL	PRIME	4			18"	3/8"	0.0°	0.0°	SINGLE-LONG	TYPE 1 (SURFACE)	---	Yes	Yes	25	STEEL HEAVY DUTY SINGLE DEFLECTION REGISTER	TITUS	30RL	1.2,5		
R-3	LOUVERED DOUBLE DEFLECTION GRILLE	STEEL	PRIME	16			18"	3/4"	0.0°	0.0°	DOUBLE-LONG	TYPE 1 (SURFACE)	---	No	No	25	STEEL DOUBLE DEFLECTION REGISTER	TITUS	300RL	1.2,5		
R-4	LOUVERED DOUBLE DEFLECTION GRILLE	ALUMINUM	PRIME	1			18"	3/4"	0.0°	0.0°	DOUBLE-LONG	TYPE 1 (SURFACE)	---	No	No	25	ALUMINUM DOUBLE DEFLECTION REGISTER	TITUS	300FL	1.2,5		
R-5	LOUVERED SINGLE DEFLECTION GRILLE	STEEL	PRIME	13			18"	1/2"	35.0°	0.0°	SINGLE-LONG	TYPE 1 (SURFACE)	---	No	No	25	STEEL SINGLE DEFLECTION REGISTER	TITUS	35SRL	1.2,5		
R-6	DOUBLE DEFLECTION SPIRAL DUCT MOUNT	ALUMINUM	PRIME	15			18"	3/4"	0.0°	0.0°	DOUBLE-LONG	DUCT MOUNT	---	Yes	No	25	ALUMINUM SPIRAL DUCT MOUNT REGISTER	TITUS	US300FL	3,4		
R-7	LOUVERED DOUBLE DEFLECTION GRILLE	STEEL	PRIME	6			18"	3/4"	0.0°	0.0°	DOUBLE-LONG	DUCT MOUNT	---	No	No	25	STEEL DOUBLE DEFLECTION REGISTER	TITUS	300RL	2,4,5		

LINEAR SLOT DIFFUSER SCHEDULE

ID	DESCRIPTION	QTY	MATERIAL	FINISH	LINEAR DIFFUSER					NECK		TYPE	INSTALLATION	OPTIONS	BASIS OF DESIGN		NOTES
					SLOT		PLENUM			INSULATED	LOW PROFILE				ROUND	OVAL	
WIDTH	QTY	NOM LENGTH	Yes	No	Yes	Yes	8"	WIDTH	HEIGHT	Oval	Round	DEFAULT	---	TITUS	FL-10		
D-8	LINEAR SLOT DIFFUSER	12	ALUMINUM	WHITE ENAMEL	1"	1	4'-0"	Yes	Yes	8"		DEFAULT	---	TITUS	FL-10		
D-9	LINEAR SLOT DIFFUSER	10	ALUMINUM	WHITE ENAMEL	2"	1	4'-0"	Yes	Yes	8"		DEFAULT	---	TITUS	FL-20		

ELECTRIC CABINET UNIT HEATER SCHEDULE

NOTES:
1. PROVIDE WITH UNIT MOUNTED DISCONNECT.
2. PROVIDE WITH UNIT MOUNTED THERMOSTAT.
3. PROVIDE WITH WALL MOUNTING BRACKET.

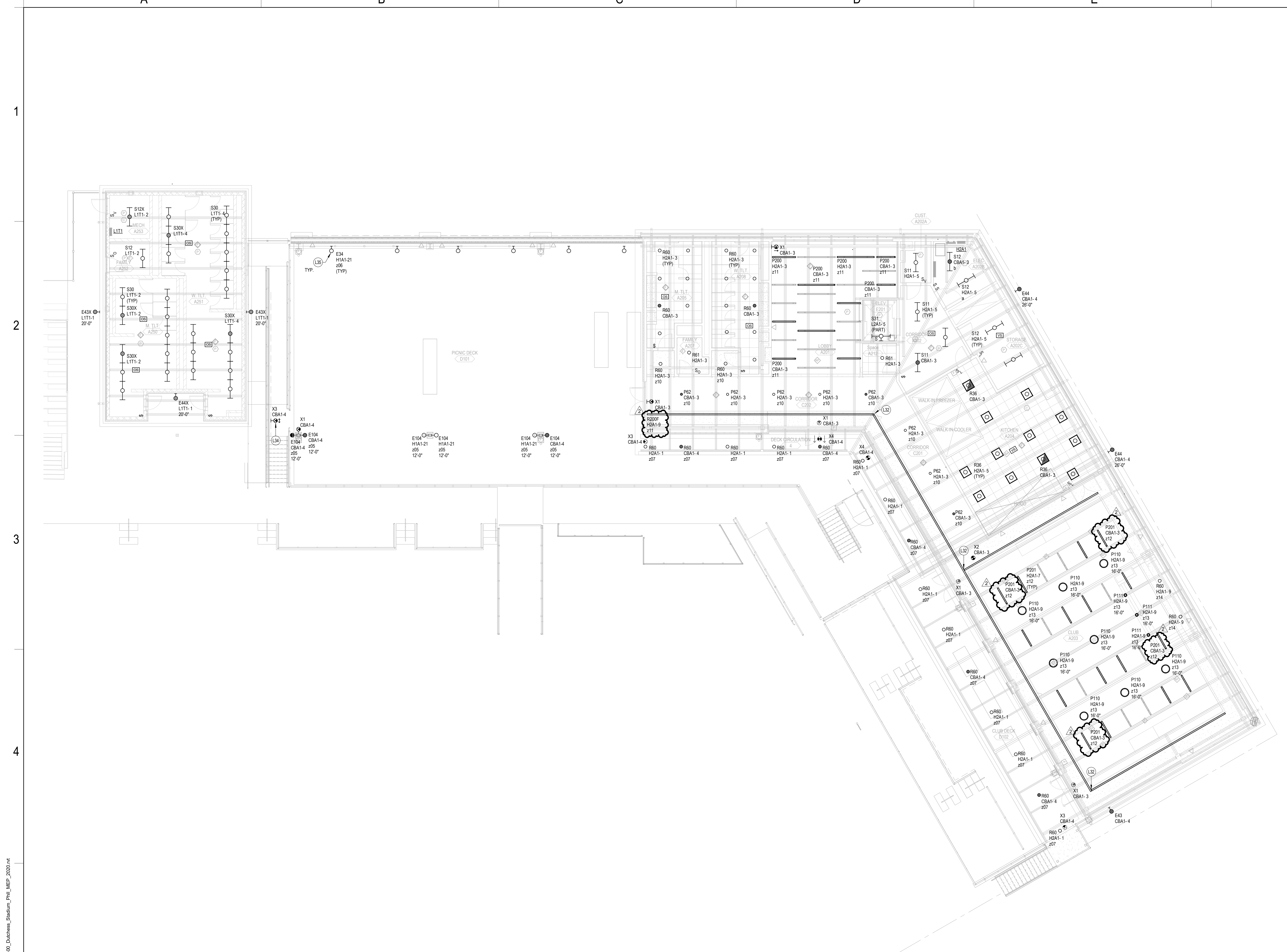
ID	LOCATION	NAME	TYPE	ARRANGEMENT	FAN DATA				HEATING COIL DATA				ELECTRICAL DATA			WEIGHT (LBS)	BASIS OF DESIGN		NOTES		
					DESIGN	DRIVE TYPE	QTY	HP	RPM	ECM	ENT	LVG	QTY	KW	AMPS (A)		VOLT (V)	PH		MANUFACTURER	MODEL
EUH-A100			STANDARD	CEILING - RECESSED	150	DIRECT	1	0.01	1600	No	68	90	1	3	10.8	277	1	23	QMARK	EFF9007	1,2
EUH-A202B	A202B	ELEC	STANDARD	WALL HUNG	350	DIRECT	1	0.01	1600	No	68	90	1	3	11	277	1	27	QMARK	MUH03-71	1,2,3
EUH-A250	A250	M. TLT.	STANDARD	WALL HUNG	650	DIRECT	1	0.03	1600	No	68	90	1	10	27.8	208	3	38	QMARK	MUH-10-8	1,2,3
EUH-A251A	A251	W. TLT.	STANDARD	WALL HUNG	650	DIRECT	1	0.03	1600	No	68	90	1	10	27.8	208	3	38	QMARK	MUH-10-8	1,2,3
EUH-A251B	A251	W. TLT.	STANDARD	WALL HUNG	650	DIRECT	1	0.03	1600	No	68	90	1	10	27.8	208	3	38	QMARK	MUH-10-8	1,2,3
EUH-A252	A252	FAMILY	STANDARD	WALL HUNG	350	DIRECT	1	0.01	1600	No	68	90	1	3	14.5	208	1	27	QMARK	MUH03-81	1,2,3
EUH-A253	A253	MECH	STANDARD	WALL HUNG	350	DIRECT	1	0.01	1600	No	68	90	1	3	14.5	208	1	27	QMARK	MUH03-81	1,2,3

FAN SCHEDULE

GENERAL:
A. BASIS OF DESIGN MODEL NUMBERS ARE FOR REFERENCE ONLY. BID EQUIPMENT TO PROVIDE THE INDICATED PERFORMANCE.
B. SEE PLANS FOR EXACT UNIT LOCATION AND CONFIGURATION.
C. REVIEW MANUFACTURER'S RIGGING AND LIFTING INSTRUCTIONS PRIOR TO INSTALLATION.
D. INSTALL UNIT PER MANUFACTURER'S INSTRUCTIONS INCLUDING ALL FIELD ASSEMBLY REQUIREMENTS.
E. EQUIPMENT SELECTION SHALL BE BASED ON ALTITUDE OF JOB SITE.
F. REFER TO SEQUENCE OF OPERATION DRAWINGS FOR CONTROL REQUIREMENTS.

NOTES:
1. PROVIDE WITH STANDARD PREWIRED POWER DISCONNECT MOUNTED EXTERNAL TO THE FAN AND RATED FOR THE LOCATION WHERE INSTALLED.
2. PROVIDE WITH ALUMINUM BIRD SCREEN.
3. MOTORIZED BACKDRAFT DAMPER, POWERED FROM FAN CIRCUIT. PROVIDE 120V ACTUATOR AND END SWITCH.
4. DIRECT DRIVE FAN WITH PREWIRED FAN SPEED CONTROLLER.
5. PROVIDE RUBBER-IN SHEAR ISOLATORS.

ID	LOCATION		AREA SERVED	TYPE	ARRANGEMENT	FAN DATA								SOUND PRESS LEVEL (dBA)	ELECTRICAL DATA		WEIGHT (LBS)	BASIS OF DESIGN		NOTES		
	NO.	NAME				DESCRIPTION	AIRFLOW (CFM)	OUTLET VELOCITY (FPM)	ESP (IN WG)	RPM	DRIVE TYPE	QTY	HP		RPM	ECM		VOLT (V)	PH		MANUFACTURER	MODEL
EF-A111	A109	LOCKER ROOM	SPORTS MED	EXHAUST	INLINE	CENTRIFUGAL	200	599	0.3	1606	DIRECT	1	0.1	1725	No	50	120	1	28	LOREN COOK	GN-342	1,3,4,5
EF-A113	---	ROOF	RESTROOM	EXHAUST	UPBLAST	CENTRIFUGAL	50	123	0.25	1322	DIRECT	1	0.05	1550	No	41	120	1	29	LOREN COOK	70R150M	1,2,3,4
EF-A202A	---	ROOF	CUSTODIAN	EXHAUST	UPBLAST	CENTRIFUGAL	75	185	0.25	1305	DIRECT	1	0.05	1550	No	43	120	1	29	LOREN COOK	70R150H	1,2,3,4
EF-A202B	A202B	ELEC	ELECTRICAL ROOM	EXHAUST	INLINE	CENTRIFUGAL	150	449	0.25	1519	DIRECT	1	0.05	1600	No	43	120	1	28	LOREN COOK	GN-322	1,3,4,5
EF-A208	---	ROOF	RESTROOM	EXHAUST	UPBLAST	CENTRIFUGAL	650	757	0.25	1388	DIRECT	1	0.13	1550	No	57	120	1	39	LOREN COOK	101R150	1,2,3,4
EF-A250	A250	M. TLT.	RESTROOM	EXHAUST	INLINE	CENTRIFUGAL	350	801	0.25	1094	DIRECT	1	0.16	1500	No	39	120	1	26	LOREN COOK	GN-642	1,3,4,5
EF-A251	A251	MEN	RESTROOM	EXHAUST	INLINE	CENTRIFUGAL	650	1,479	0.5	1527	DIRECT	1	0.4	1600	No	44	120	1	29	LOREN COOK	GN-740	1,3,4,5
EF-A253	A253	MECH	CUSTODIAN RESTROOM	EXHAUST	INLINE	CENTRIFUGAL	125	370	0.25	891	DIRECT	1	0.06	1450	No	41	120	1	13	LOREN COOK	GN-188	1,3,4,5



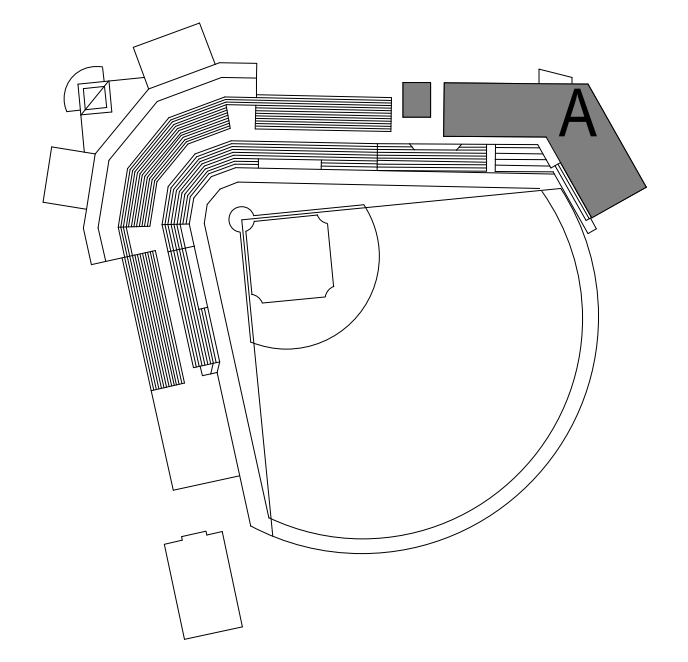
GENERAL NOTES

A
B

SHEET NOTES

- L32 PROVIDE CONTINUOUSLY LIT CORNERS.
- L34 INSTALL EXIT SIGN LOW ON RAILING FACE. PROVIDE MOUNTING EQUIPMENT AS REQUIRED FOR SECURE INSTALLATION. STUB POWER UP FROM BELOW TO EXIT SIGN.
- L35 INSTALL FIXTURES ON TOP OF STRUCTURAL BEAM. PROVIDE CLAMP AND OTHER ACCESSORIES AS REQUIRED TO MOUNT FIXTURES SECURELY TO BEAM WHILE PERMITTING FIXTURE TO BE ADJUSTED FOR AIMING. COORDINATE AIMING OF EACH FIXTURE WITH OWNER.

KEY PLAN



LIGHTING PLAN - AREA A - LEVEL 2
SCALE: 1/8" = 1'-0"



BID SET
11.04.22

REVISIONS

1	CONSTRUCTION DOCS	03.05.23
2	FIG 2 - ASH 001	04.07.23

BM 360/62-21113-00_Dutchess Stadium Ph 1/57-21113-00_Dutchess Stadium_Ph1 MEP_2020.rvt
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Table with columns: TYPE, MANUFACTURER, CATALOG NUMBER, KEY PARAMETERS, VOLT, DIMMING / CONTROL, MOUNTING, DESCRIPTION, SPEC. NOTES. Includes rows for E13, E23, E34, E43, E44, E44K, E81, E104, E114, E115, P62, P110, P111, P200, P201, R31, R33, R36, R40, R42, R60, R61, R62, R63, R64, and R200.

Table with columns: TYPE, MANUFACTURER, CATALOG NUMBER, KEY PARAMETERS, VOLT, DIMMING / CONTROL, MOUNTING, DESCRIPTION, SPEC. NOTES. Includes rows for S10, S11, S12, S12X, S30, S30X, S31, S33, X1, X2, X3, and X4.

Table titled 'LIGHT FIXTURE SCHEDULE NOTES' containing 'ABBREVIATIONS' (e.g., AC ALTERNATING CURRENT, C.O. CENTER) and 'GENERAL NOTES' (e.g., A. FIXTURE MANUFACTURERS ARE LISTED ALPHABETICALLY AND NOT ACCORDING TO BASIS OF DESIGN).

Vertical text on the left margin: 1, 2, 3, 4, 5.

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Glass products.
2. Insulating glass.
3. Glazing sealants.
4. Glazing tapes.
5. Miscellaneous glazing materials.

B. Related Requirements:

1. Section 088300 "Mirrors."

1.2 DEFINITIONS

- A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters in accordance with ASTM C1036.
- C. IBC: International Building Code.
- D. Interspace: Space between lites of an insulating-glass unit.

1.3 COORDINATION

- A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances to achieve proper safety margins for glazing retention under each design load case, load case combination, and service condition.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

2. Review temporary protection requirements for glazing during and after installation.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Glass Samples: For each type of glass product other than clear monolithic vision glass; 12 inches (300 mm) square.
- C. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and manufacturers of fabricated glass units.
- B. Sample Warranties: For special warranties.

1.7 QUALITY ASSURANCE

- A. Fabricated-Glass Manufacturer Qualifications: A qualified manufacturer of fabricated glass units who is approved by primary glass manufacturer.
- B. Installer Qualifications: A qualified glazing contractor for this Project who is certified under the North American Contractor Certification Program (NACC) for Architectural Glass & Metal (AG&M) contractors.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials in accordance with manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

1.9 FIELD CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
 1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F (4.4 deg C).

1.10 WARRANTY

- A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.
1. Warranty Period: 10 years from date of Substantial Completion.
- B. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is obstruction of vision by dust, moisture, or film on interior surfaces of glass.
1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations for Glass: Obtain glass from single source from single manufacturer for each glass type.
- B. Source Limitations for Glazing Accessories: For each product and installation method, obtain from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined in accordance with the IBC and ASTM E1300:
1. Design Wind Pressures: As indicated on Drawings.
 - a. Wind Design Data: As indicated on Drawings.
 2. Design Snow Loads: As indicated on Drawings.

3. Maximum Lateral Deflection: For glass supported on all four edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or 1 inch (25 mm), whichever is less.
- C. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- D. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
1. For monolithic-glass lites, properties are based on units with lites 6 mm thick.
 2. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 3. U-Factors: Center-of-glazing values, in accordance with NFRC 100 and based on most current non-beta version of LBL's WINDOW computer program, expressed as Btu/sq. ft. x h x deg F (W/sq. m x K).
 4. SHGC and Visible Transmittance: Center-of-glazing values, in accordance with NFRC 200 and based on most current non-beta version of LBL's WINDOW computer program.
 5. Visible Reflectance: Center-of-glazing values, in accordance with NFRC 300.

2.3 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
1. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of the IGCC.
- D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than thickness indicated.
1. Minimum Glass Thickness for Exterior Lites: 6 mm.
 2. Thickness of Tinted Glass: Provide same thickness for each tint color indicated throughout Project.

- E. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass. Where fully tempered float glass is indicated, provide fully tempered float glass.

2.4 GLASS PRODUCTS

- A. Clear Annealed Float Glass: ASTM C1036, Type I, Class 1 (clear), Quality-Q3.
- B. Fully Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
 - 1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
- C. Reflective- and Low-E-Coated Vision Glass: ASTM C1376.

2.5 INSULATING GLASS

- A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified in accordance with ASTM E2190.
 - 1. Sealing System: Dual seal, with polyisobutylene and silicone primary and secondary sealants.
 - 2. Perimeter Spacer: Stainless steel.
 - 3. Desiccant: Molecular sieve or silica gel, or a blend of both.

2.6 GLAZING SEALANTS

- A. General:
 - 1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
 - 2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
 - 3. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range of industry colors.
- B. Neutral-Curing Silicone Glazing Sealant, Class 100/50: Complying with ASTM C920, Type S, Grade NS, Use NT.

1. Basis-of-Design Product: Subject to compliance with requirements, provide The Dow Chemical Company; Dow Corning® 790 Silicone Building Sealant or a comparable product by one of the following:
 - a. GE Construction Sealants; Momentive Performance Materials Inc.
 - b. Pecora Corporation.
 - c. Sika Corporation.
 - d. Tremco Incorporated.

2.7 GLAZING TAPES

- A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C1281 and AAMA 800 for products indicated below:
 1. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
 2. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
 1. AAMA 810.1, Type 1, for glazing applications in which tape acts as primary sealant.
 2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.8 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, recommended in writing by manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks:
 1. Elastomeric with Shore A durometer hardness of 85, plus or minus 5.
- D. Spacers:
 1. Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- E. Edge Blocks:

1. Elastomeric with Shore A durometer hardness per manufacturer's written instructions.

F. Cylindrical Glazing Sealant Backing: ASTM C1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.9 FABRICATION OF GLAZING UNITS

A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.

1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.

a. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:

1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
2. Presence and functioning of weep systems.
3. Minimum required face and edge clearances.
4. Effective sealing between joints of glass-framing members.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.

B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.

3.3 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- F. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
 - 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
 - 2. Provide 1/8-inch- (3-mm-) minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and in accordance with requirements in referenced glazing publications.
- H. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- I. Set glass lites with proper orientation so that coatings face exterior or interior as specified.
- J. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.
- K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended in writing by gasket manufacturer.

3.4 TAPE GLAZING

- A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
- B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- E. Do not remove release paper from tape until right before each glazing unit is installed.
- F. Apply heel bead of elastomeric sealant.
- G. Center glass lites in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- H. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.5 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended in writing by gasket manufacturer.
- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended in writing by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.6 SEALANT GLAZING (WET)

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.7 CLEANING AND PROTECTION

- A. Immediately after installation, remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
 - 1. If, despite such protection, contaminating substances do contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
- C. Remove and replace glass that is damaged during construction period.
- D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

3.8 MONOLITHIC GLASS SCHEDULE

- A. Clear Glass Type (CG): Annealed float glass.
 - 1. Minimum Thickness: 6 mm.
- B. Clear Glass Type (CTG): Fully tempered float glass.
 - 1. Minimum Thickness: 6 mm.
 - 2. Safety glazing required.

3.9 INSULATING GLASS SCHEDULE

A. Low-E-Coated, Clear Insulating Glass Type (CIG):

1. Basis-of-Design Product: Vitro Architectural Glass; Solarban 70.
 - a. Other Approved Manufacturers:
 - 1) ACG Glass Company North America.
 - 2) Guardian Glass.
 - 3) Viracon.
 2. Overall Unit Thickness: 1 inch (25 mm).
 3. Minimum Thickness of Each Glass Lite: 6 mm.
 4. Outdoor Lite: Annealed float glass.
 5. Interspace Content: Air.
 6. Indoor Lite: Annealed float glass.
 7. Low-E Coating: Sputtered on second surface.
 8. Winter Nighttime U-Factor: 0.28 maximum.
 9. Summer Daytime U-Factor: 0.26 maximum.
 10. Visible Light Transmittance: 64 percent minimum.
 11. SGHC: 0.27 maximum.
 12. Safety glazing required.

B. Low-E-Coated, Clear Tempered Insulating Glass Type (CTIG-1):

1. Basis-of-Design Product: Vitro Architectural Glass; Solarban 70.
 - a. Other Approved Manufacturers:
 - 1) ACG Glass Company North America.
 - 2) Guardian Glass.
 - 3) Viracon.
 2. Overall Unit Thickness: 1 inch (25 mm).
 3. Minimum Thickness of Each Glass Lite: 6 mm.
 4. Outdoor Lite: Fully tempered float glass.
 5. Interspace Content: Air.
 6. Indoor Lite: Fully tempered float glass.
 7. Low-E Coating: Sputtered on second surface.
 8. Winter Nighttime U-Factor: 0.28 maximum.
 9. Summer Daytime U-Factor: 0.26 maximum.
 10. Visible Light Transmittance: 64 percent minimum.
 11. SGHC: 0.27 maximum.
 12. Safety glazing required.

C. Low-E-Coated, Clear Tempered Insulating Glass Type (CTIG-2):

1. Basis-of-Design Product: Vitro Architectural Glass; Solarban 70.
 - a. Other Approved Manufacturers:
 - 1) ACG Glass Company North America.
 - 2) Guardian Glass.
 - 3) Viracon.
2. Overall Unit Thickness: ~~1 3/8~~ 1 1/8 inch (~~35 mm~~) at aluminum storefront window, 1 inch at storefront doors.
3. Minimum Thickness of Outdoor Lite: 10 mm.
4. Minimum Thickness of Indoor Lite: 6 mm.
5. Outdoor Lite: Fully tempered float glass.
6. Interspace Content: Air.
7. Indoor Lite: Fully tempered float glass.
8. Low-E Coating: Sputtered on second surface.
9. Winter Nighttime U-Factor: 0.28 maximum.
10. Summer Daytime U-Factor: 0.26 maximum.
11. Visible Light Transmittance: 64 percent minimum.
12. SGHC: 0.27 maximum.
13. Safety glazing required.

END OF SECTION 088000