DESIGN CRITERIA:

BASIS OF DESIGN

ALL CONSTRUCTION IS DESIGNED AS FOLLOWS
FLORIDA BUILDING CODE 7th EDITION 2020

DEAD LOADS
ROOF 15 psf

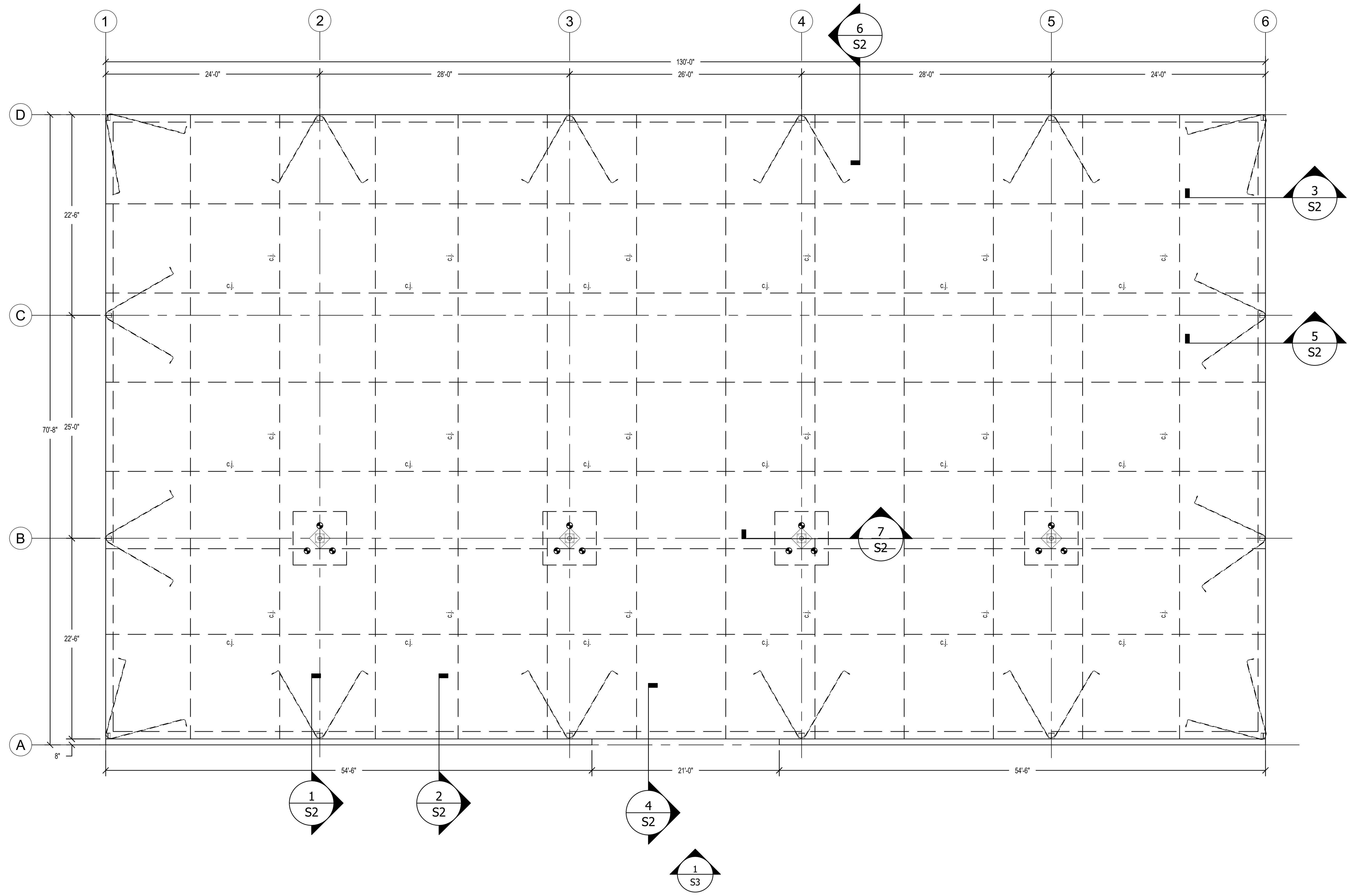
LIVE LOADS
FLOOR 100 psf
ROOF 5.5 psf

WIND LOADS
ASCE 7-16, 120 MPH WIND (ULT); 110 MPH (NOMINAL)
BUILDINGS OF ALL HEIGHTS ANALYTICAL METHOD
RISK CATEGORY II
EXPOSURE CATEGORY "B"
ROOF SLOPE: 3/8:12
INTERNAL PRESSURE COEFFICIENTS
GC_{pi}=+/- .18, ENCLOSED STRUCTURE
BASIC WIND PRESSURE; q= 30.1 P.S.F. (C&C)
EDGE DISTANCE; a= 4 FT.

STRENGTH OF MATERIALS

REINFORCING STEEL	f_y = 60,000 psi
CONCRETE SLAB, BEAMS AND FOOTINGS	f'_c = 4,000 psi
REINFORCED MASONRY	f'_m = 1,500 psi
MASONRY GROUT	f'_g = 3,000 psi
SOIL BEARING PER GEOTECHNICAL REPORT	S_b= 2,000 psf

NOTE:
FOUNDATION DESIGN IS BASED ON PRELIMINARY INFORMATION ONLY. NOT FOR CONSTRUCTION UNTIL FINAL REACTIONS HAVE BEEN SUBMITTED BY PEMB MANUFACTURER AND APPROVED BY THE E.O.R.



FLOORPLAN

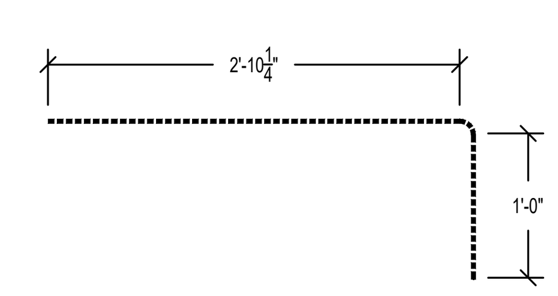
SCALE: 1/8"=1'-0"

CONCRETE/MASONRY NOTES:

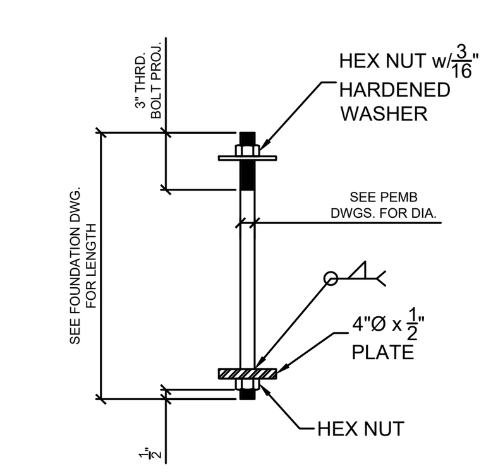
1. VERIFY ALL DETAILS AND DIMENSIONS WITH EXISTING CONDITIONS, ARCHITECTURAL DOCUMENTS AND PROPERLY COORDINATED APPROVED SHOP DRAWINGS.
2. EXPANSION AND CONTROL JOINTS ARE TO BE PLACED PER A.C.I. RECOMMENDATIONS. PREPARE A CRACK CONTROL PLAN BASED ON CONSTRUCTION SEQUENCING AND PROPOSED ACTUAL FLOOR AND WALL FINISHES AND SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
   - 2.1. NO CONTROL JOINT SHALL INTERSECT AN ADJACENT CONTROL JOINT AT AN ANGLE <90°.
   - 2.2. CONTROL JOINTS SHALL ONLY INTERSECT A CURB OR OTHER STRUCTURAL MEMBER AT ANGLE OF 90°.
3. PROVIDE 48 BAR DIAMETER MINIMUM LAP.
4. ALL FOOTING BOTTOMS MUST BE PLACED A MINIMUM OF 12" BELOW FINISH GRADE.

TERMITE NOTES:

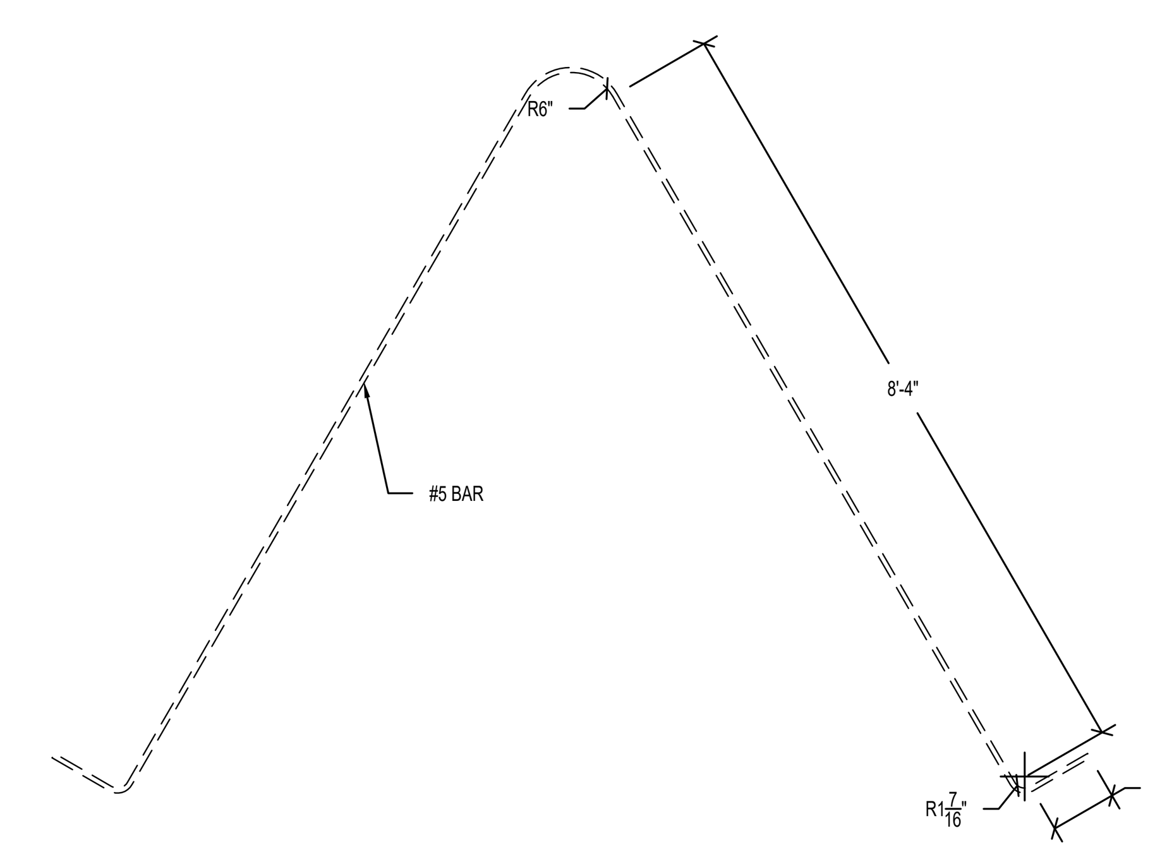
1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR RE-INSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL.
2. CONDENSATE AND ROOF DOWN SPOUTS SHALL DISCHARGE 1'-0" AWAY FROM BUILDING SIDE WALLS.
3. IRRIGATION/SPRINKLER SYSTEM INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" OF THE BUILDING SIDE WALLS.
4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION THE DISTANCE BETWEEN WALL COVERING AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT OR DECORATIVE CEMENTITIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL.
5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. IN ACCORDANCE WITH 7TH EDITION 2020 FLORIDA BUILDING CODE SECTION 1816.1.1
6. SOIL DISTRIBUTED AFTER THE INITIAL TREATMENT SHALL BE RE-TREATED INCLUDING SPACES BOXED AND FORMED. IN ACCORDANCE WITH 7TH EDITION 2020 FLORIDA BUILDING CODE SECTION 1816.1.2
7. BOXED AREAS IN CONCRETE FLOORS FOR SUBSEQUENT INSTALLATIONS OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE THE SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. IN ACCORDANCE WITH 7TH EDITION 2020 FLORIDA BUILDING CODE SECTION 2304.11
8. MINIMUM 6 MIL RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, PRETREATMENT IS REQUIRED. IN ACCORDANCE WITH 7TH EDITION 2020 FLORIDA BUILDING CODE SECTION 2304.11.
9. CONCRETE OVER POUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. IN ACCORDANCE WITH 7TH EDITION 2020 FLORIDA BUILDING CODE SECTION 2304.11.
10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. IN ACCORDANCE WITH 7TH EDITION 2020 FLORIDA BUILDING CODE SECTION 2304.11.
11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION ANY SOIL DISTRIBUTED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. IN ACCORDANCE WITH 7TH EDITION 2020 FLORIDA BUILDING CODE SECTION 2304.11.
12. ALL BUILDING ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. IN ACCORDANCE WITH 7TH EDITION 2020 FLORIDA BUILDING CODE SECTION 2304.11.
13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES." IN ACCORDANCE WITH 7TH EDITION 2020 FLORIDA BUILDING CODE SECTION 2304.11.
14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL.
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING.



SLAB TIE DETAIL
SCALE: 3/4" = 1'-0"



ANCHOR BOLT DETAIL
SCALE: N.T.S.



HAIRPIN DETAIL
SCALE: 3/4" = 1'-0"

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SAMUEL P DEAN LICENSE No 83915 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Samuel P. Dean Date: 2021.03.22 13:41:04 -04'00'

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DOLLAR GENERAL®
SR 19 & CR 242
LAKE CITY, FL 32024
STORE # TBD
2019 PROTOTYPE - PLAN 'DGTP-D' - 9,100 SQ. FT.

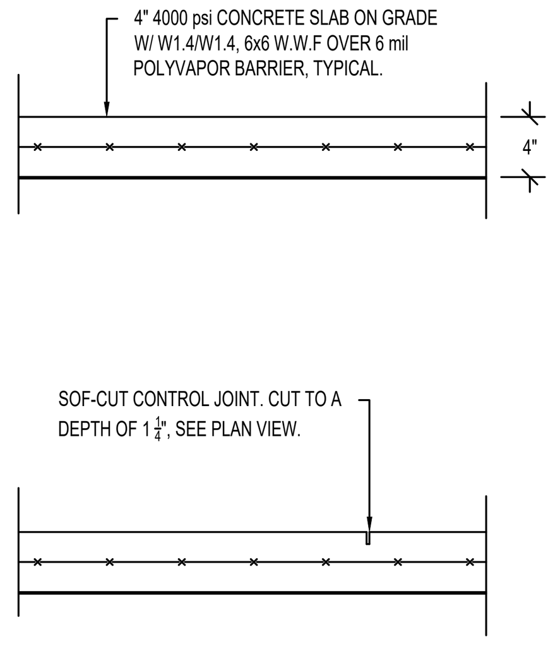
DRAWING DATE: / DRAWN BY:
03/15/2021 IB

REVISION DATE: / REVISED BY:

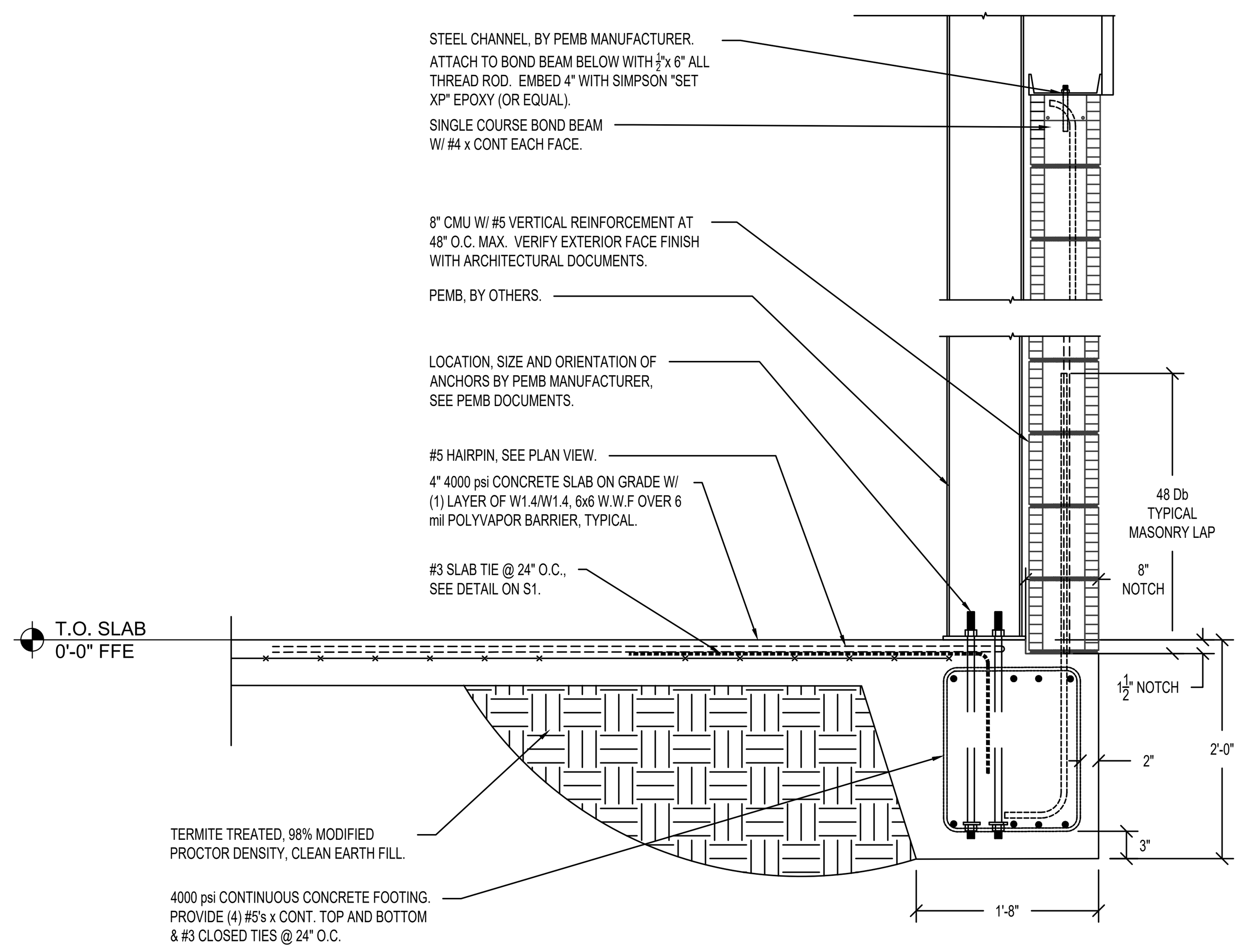
PROJECT NUMBER:
ET20-929 / 4000.213

DRAWING TITLE:
FOUNDATION PLAN

SHEET NO.
S1

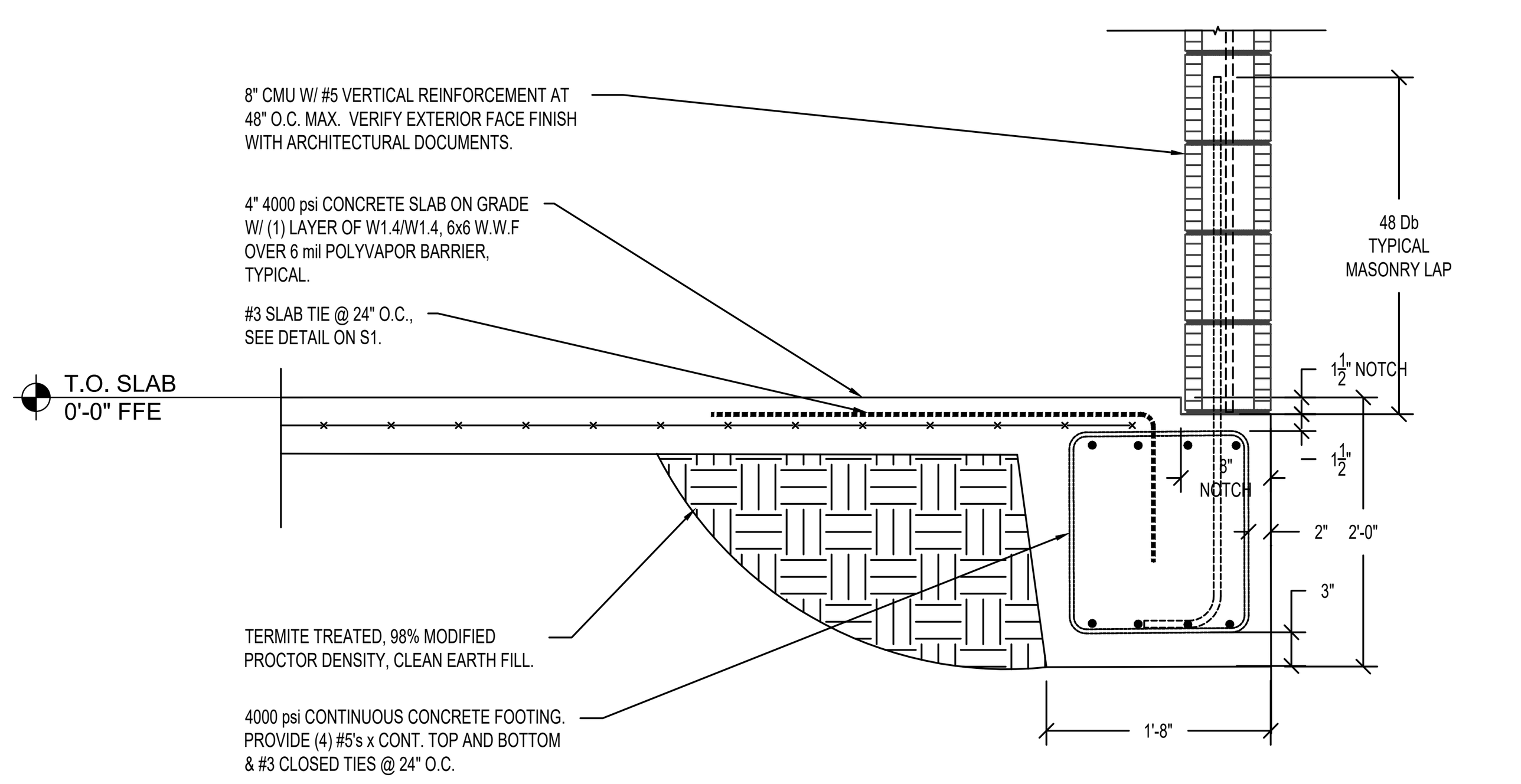


TYPICAL SLAB DETAILS
SCALE: 3/4" = 1'-0"



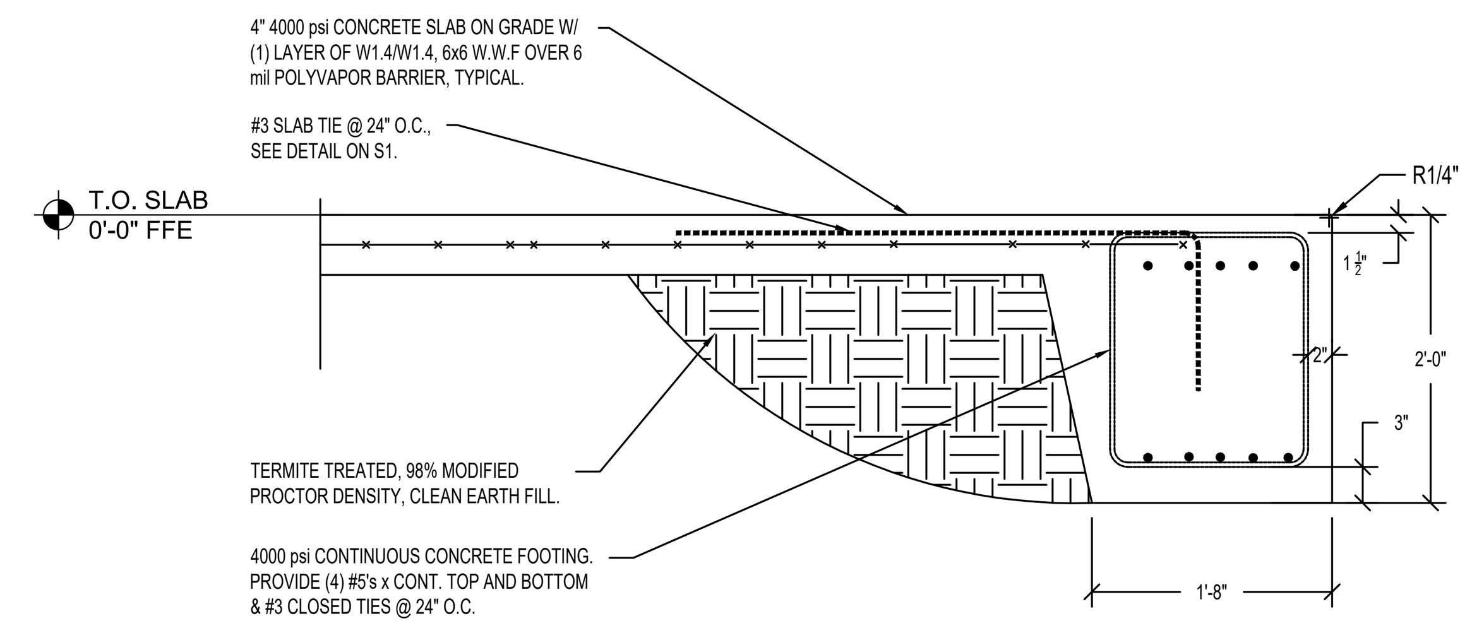
PERIMETER FOOTING ALONG 8" FACADE AT BUILDING FRAME.

1 S2 DETAIL
SCALE: 3/4" = 1'-0"



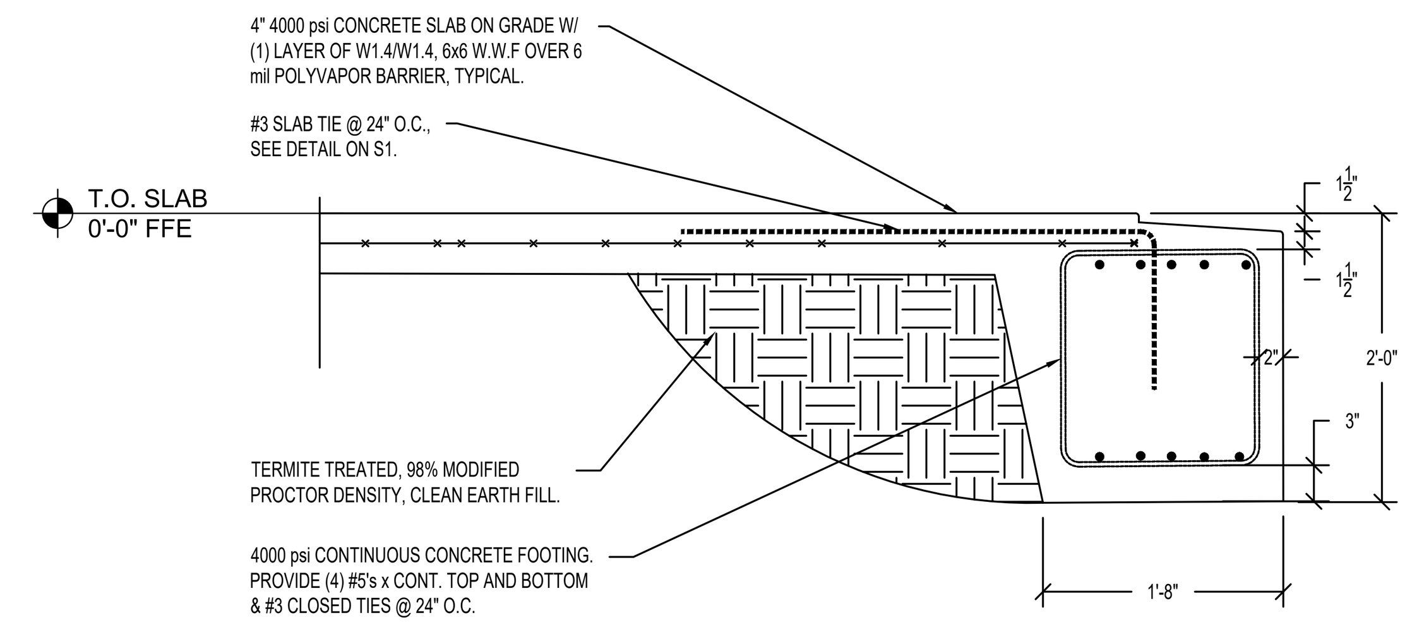
TYPICAL PERIMETER FOOTING ALONG 8" FACADE NOT AT BUILDING FRAME.

2 S2 DETAIL
SCALE: 3/4" = 1'-0"



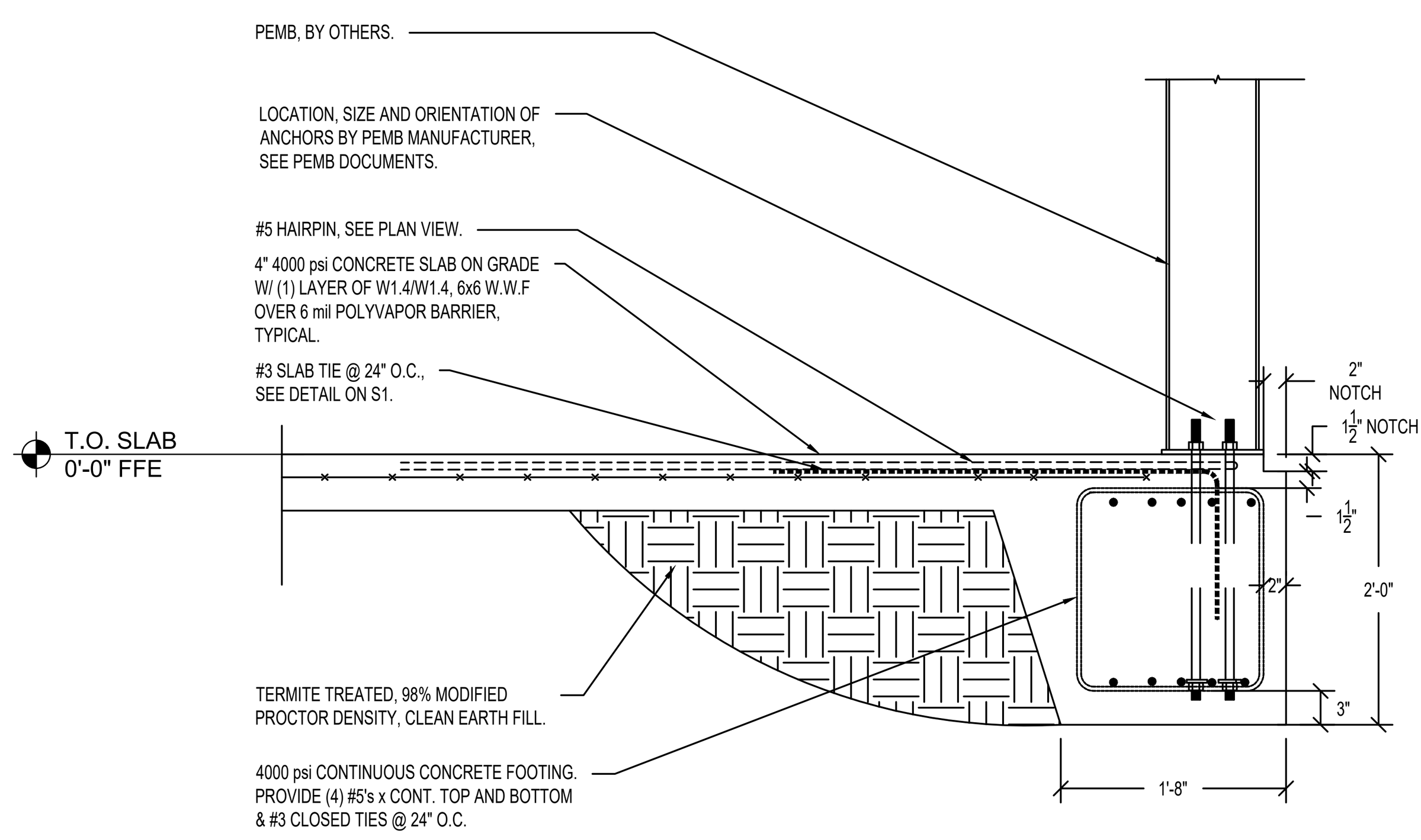
TYPICAL PERIMETER FOOTING AT ENTRY DOOR.

3 S2 DETAIL
SCALE: 3/4" = 1'-0"



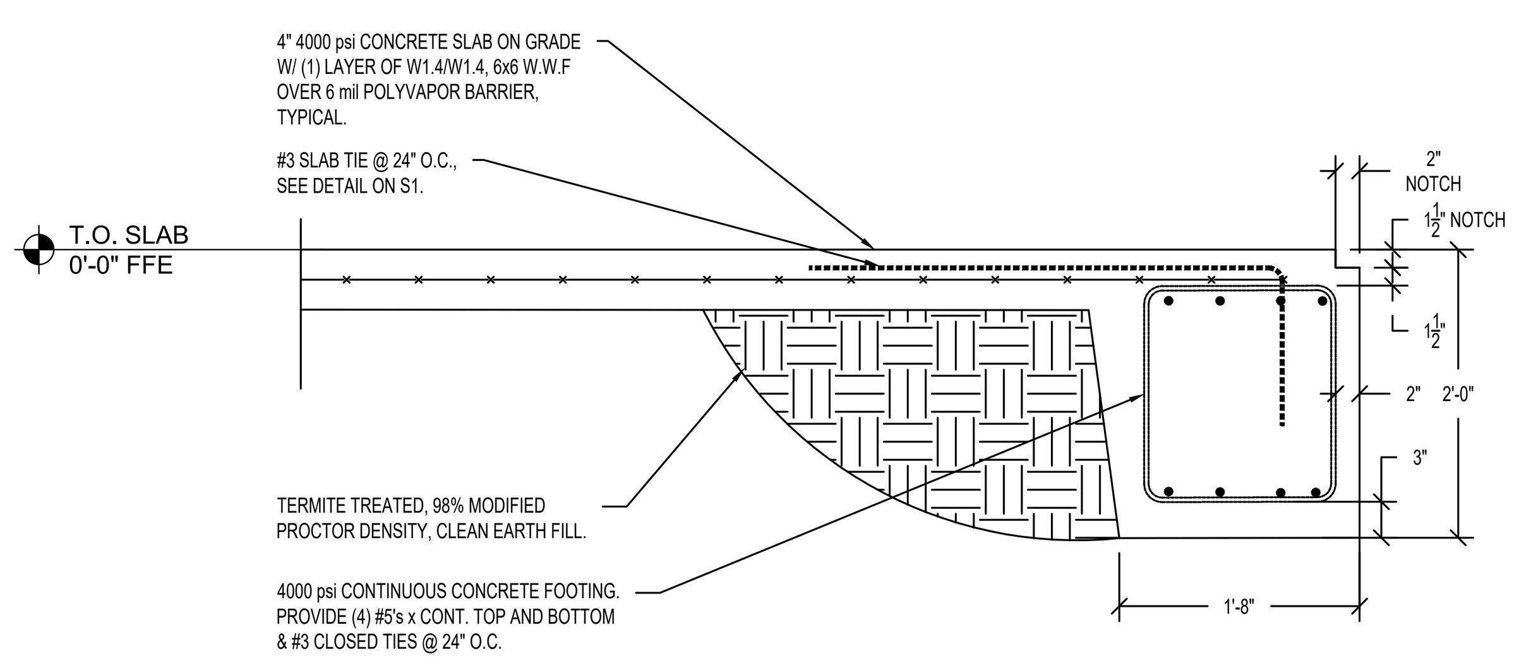
FOOTING ALONG FACADE AT FRONT ENTRY.

4 S2 DETAIL
SCALE: 3/4" = 1'-0"



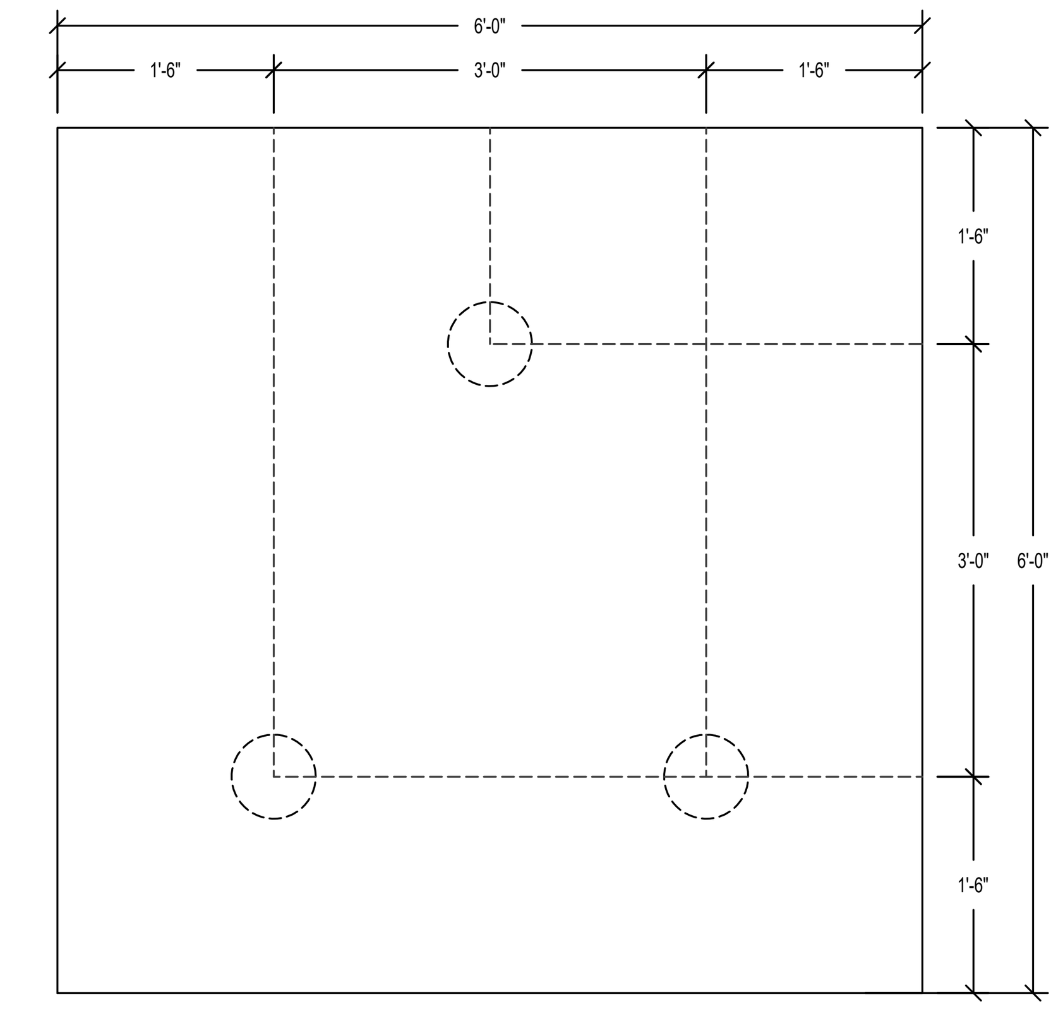
TYPICAL PERIMETER FOOTING AT BUILDING FRAME.

5 S2 DETAIL
SCALE: 3/4" = 1'-0"

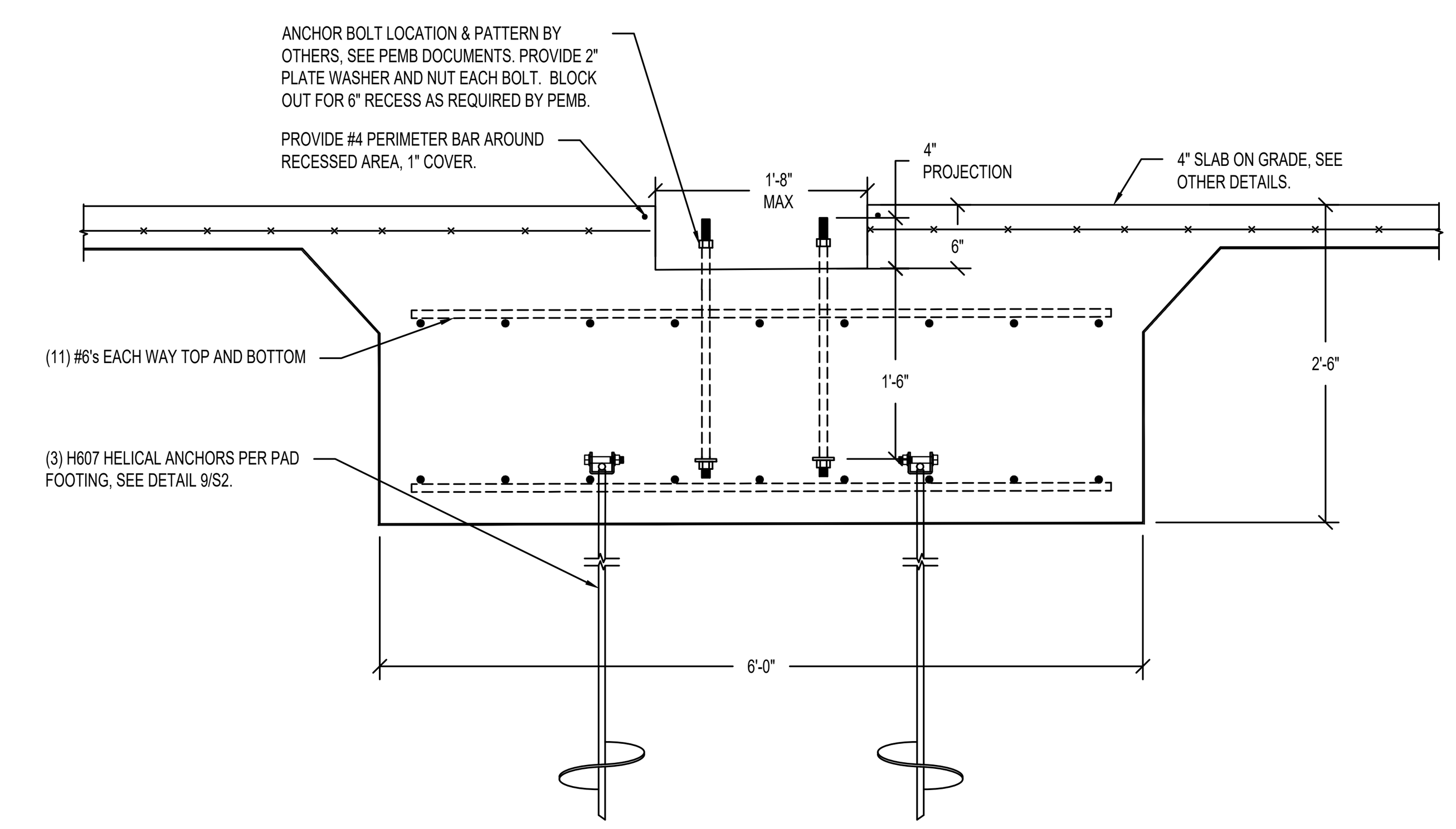


TYPICAL PERIMETER FOOTING NOT AT BUILDING FRAME.

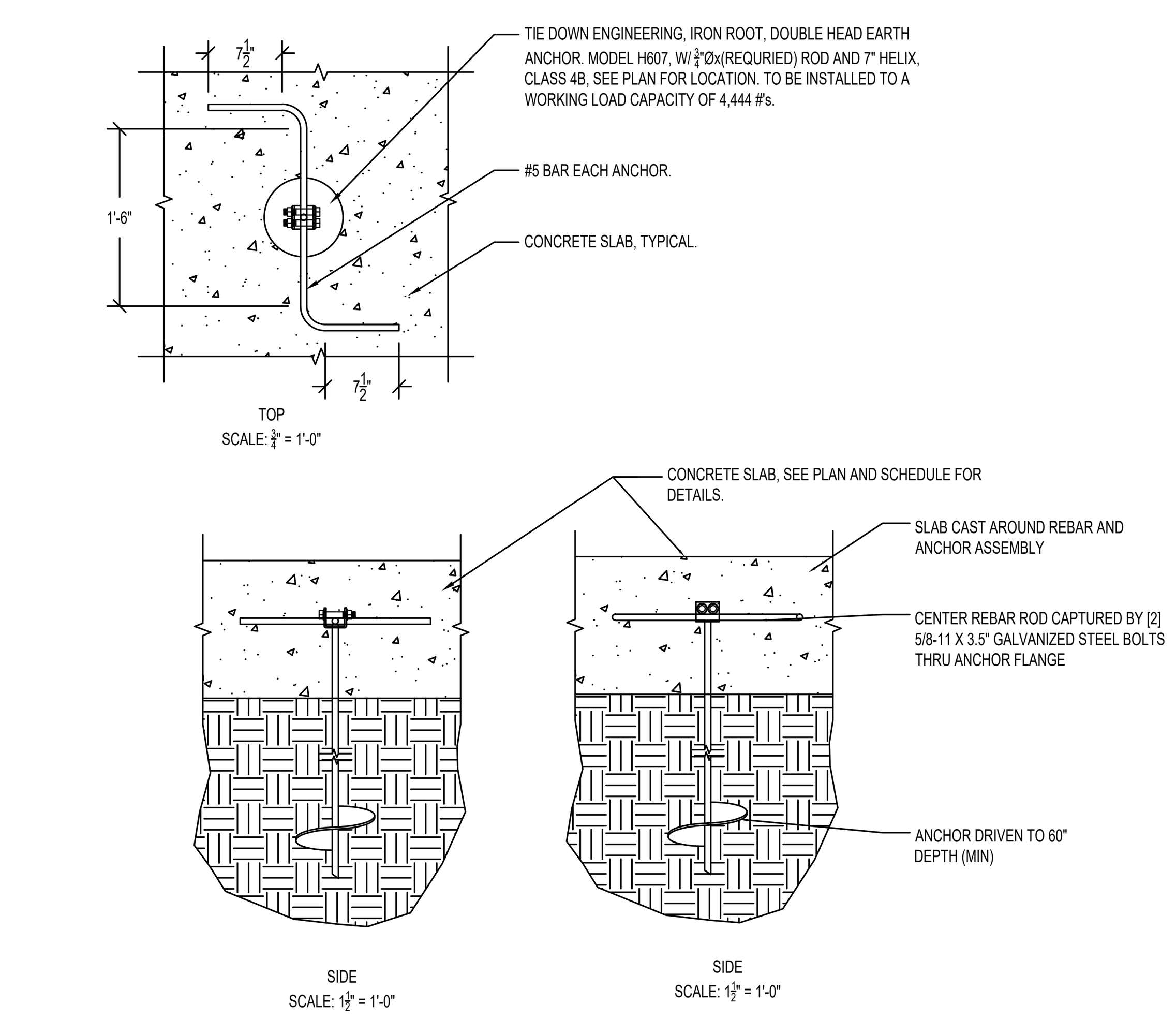
6 S2 DETAIL
SCALE: 3/4" = 1'-0"



HELICAL ANCHOR ORIENTATION
TOP VIEW



7 S2 DETAIL
SCALE: 3/4" = 1'-0"



8 S2 DETAIL
SCALE: 3/4" = 1'-0"

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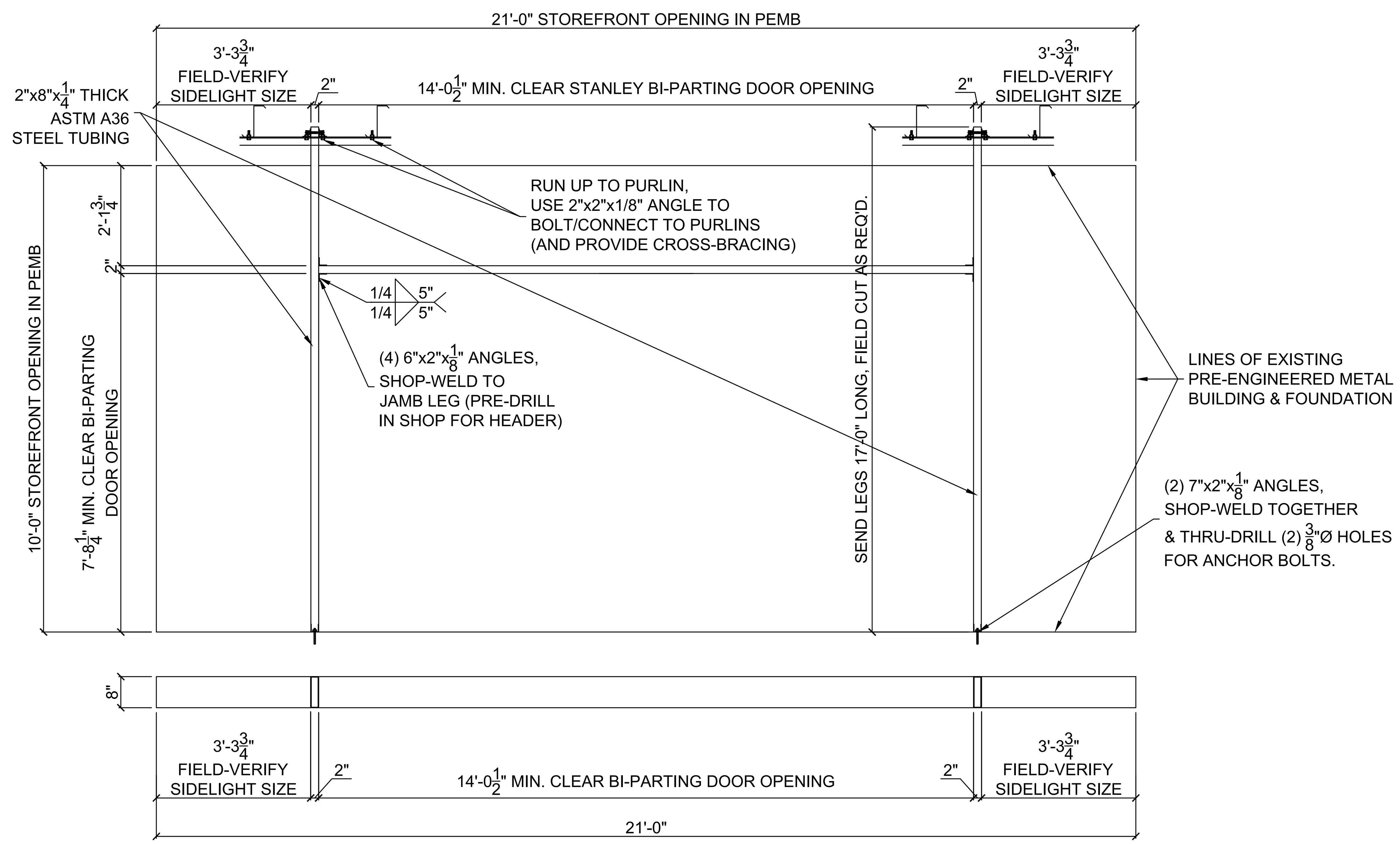
FOUNDATION DETAILS

SHEET NO.
S2



1 S3 DETAIL — STEEL FRAME AT FRONT ENTRY.

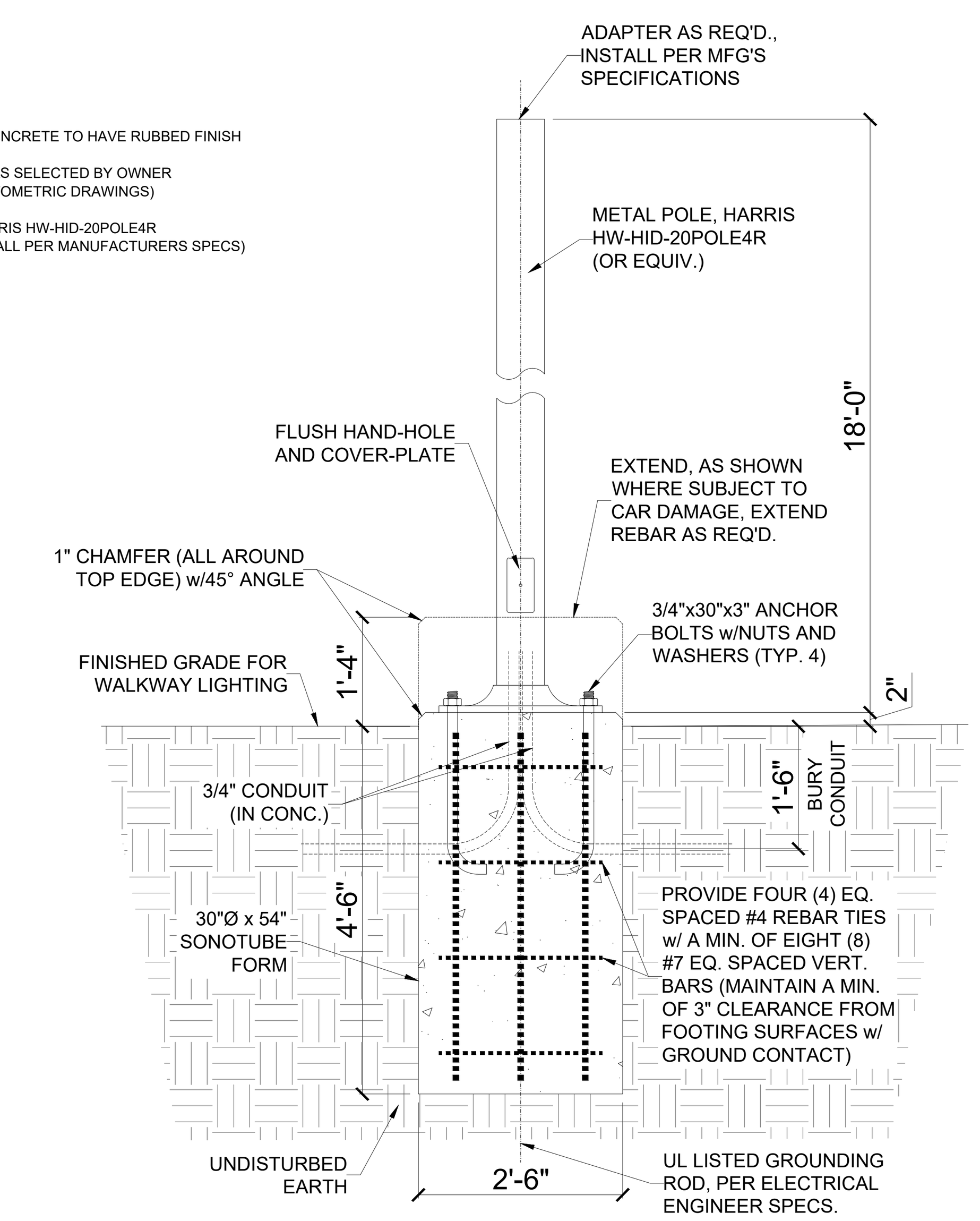
SCALE: 1/2" = 1'-0"

NOTES:

ALL EXPOSED CONCRETE TO HAVE RUBBED FINISH

LIGHT FIXTURE: AS SELECTED BY OWNER (SEE CIVIL / PHOTOMETRIC DRAWINGS)

LIGHT POLE: HARRIS HW-HID-20POLE4R (OR EQUIV., INSTALL PER MANUFACTURERS SPECS)



2 S3 DETAIL — LIGHT POLE

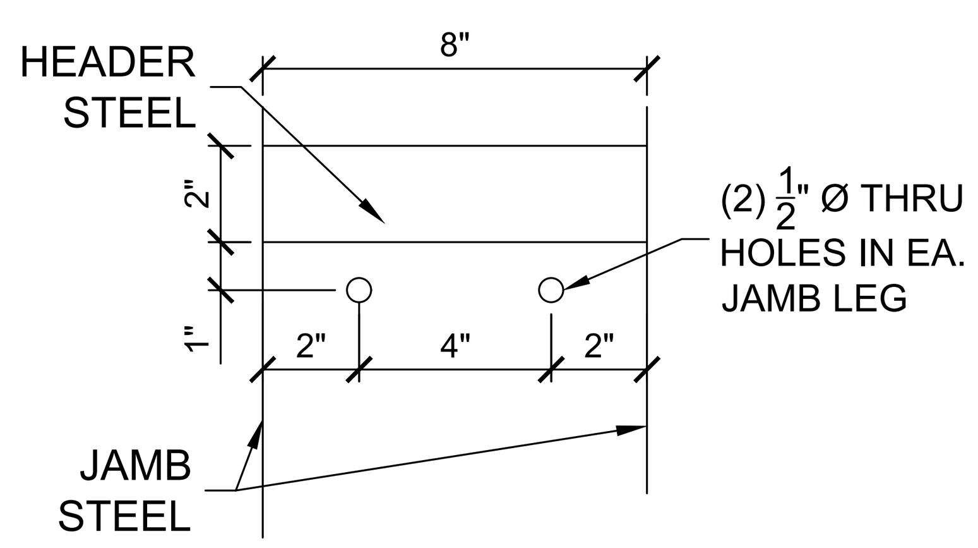
SCALE: 1/2" = 1'-0"

LIGHT POLE DESIGN CRITERIA:

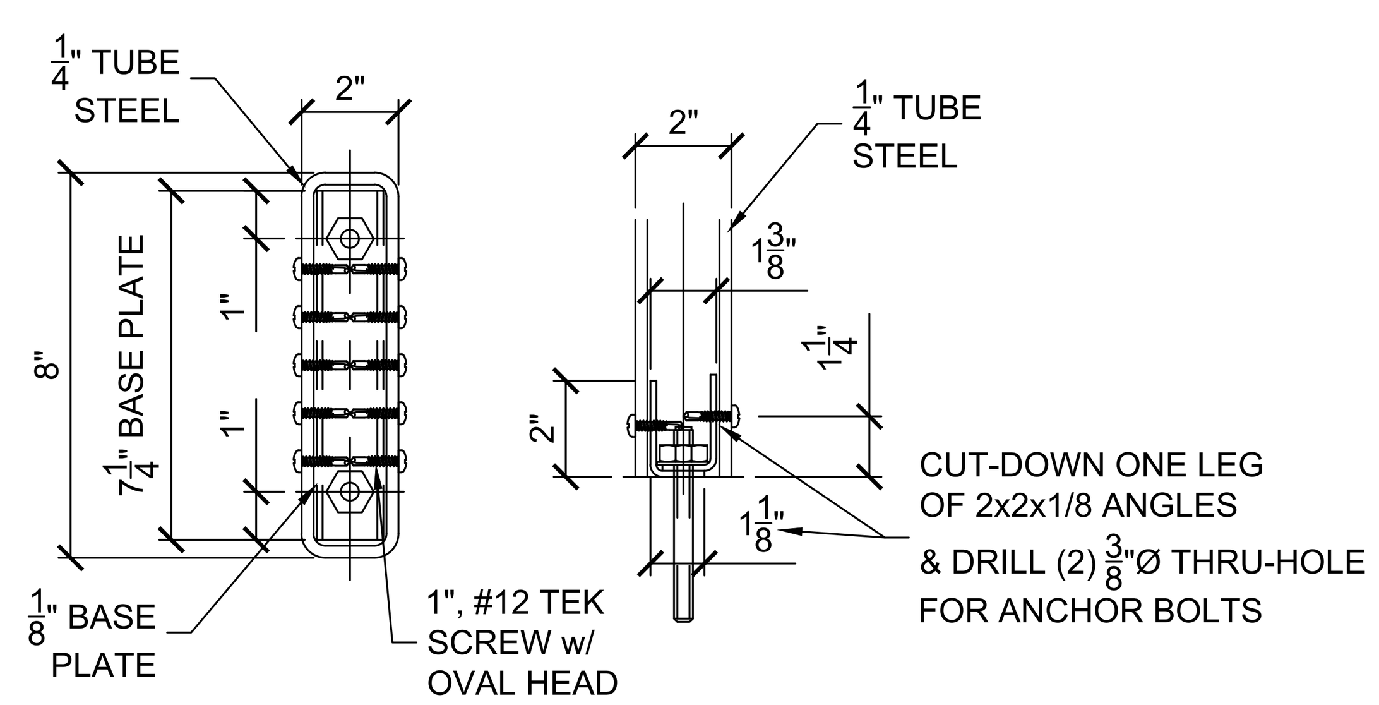
BASIS OF DESIGN

ALL CONSTRUCTION IS DESIGNED AS FOLLOWS
FLORIDA BUILDING CODE 7th EDITION (2020)

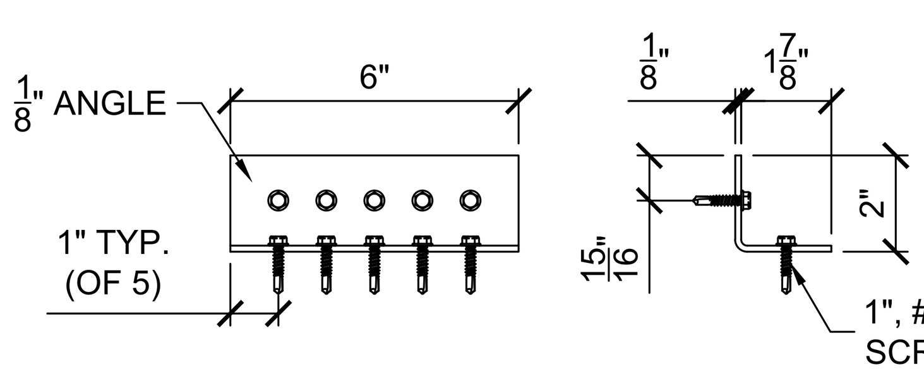
WIND LOADS
ASCE 7-16, 120 MPH WIND (ULT); 110 MPH (NOMINAL)
SIGNS ANALYTICAL METHOD
STRUCTURE CATEGORY II
TERRAIN EXPOSURE "B"
BASIC WIND PRESSURE; q= 30.1 P.S.F.
* TREATED AS SIGNAGE



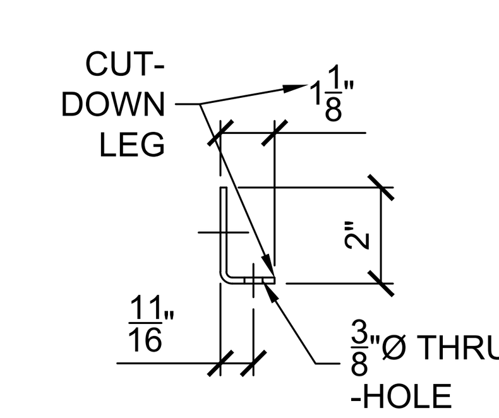
JAMB HOLE DETAIL
SCALE: 3" = 1'-0"



ANGLE DETAIL
SCALE: 3" = 1'-0"



BASE PLATE DETAIL
SCALE: 3" = 1'-0"



BASE PLATE DETAIL
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DRAWING TITLE:
STEEL DETAILS

SHEET NO.

S3