

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<sub>pf</sub>=+/- .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  $S_u = 2,000$  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.

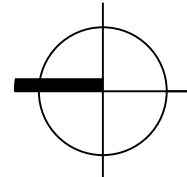
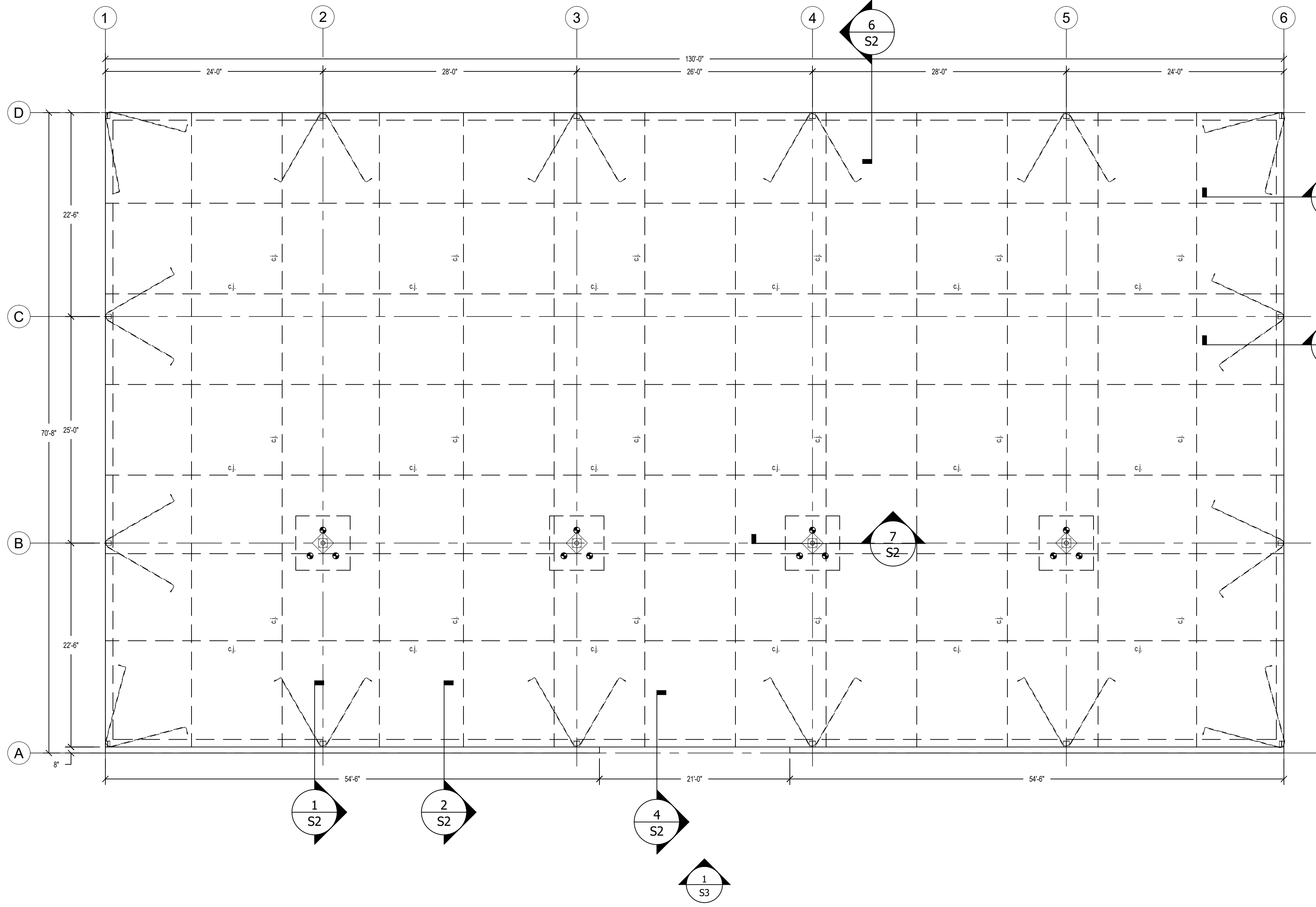


CONCRETE/MASONRY NOTES:

- VERIFY ALL DETAILS AND DIMENSIONS WITH EXISTING CONDITIONS, ARCHITECTURAL DOCUMENTS AND PROPERLY COORDINATED APPROVED SHOP DRAWINGS.
- 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°.
- PROVIDE 48 BAR DIAMETER MINIMUM LAP.
- ALL FOOTING BOTTOMS MUST BE PLACED A MINIMUM OF 12" BELOW FINISH GRADE.

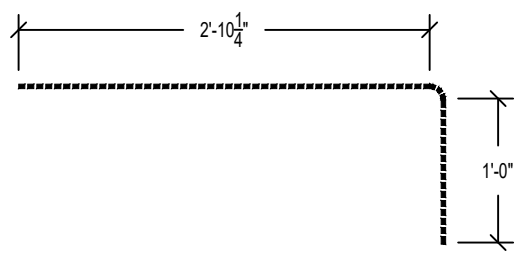
TERMITE NOTES:

- 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.
- CONDENSATE AND ROOF DOWN SPOUTS SHALL DISCHARGE 1'-0" AWAY FROM BUILDING SIDE WALLS.
- IRRIGATION/SPRINKLER SYSTEM INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" OF THE BUILDING SIDE WALLS.
- 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.
- 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
- 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
- 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
- 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.
- 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.
- 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.
- 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.
- ALL BUILDING ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. IN ACCORDANCE WITH 7TH EDITION 2020 FLORIDA BUILDING CODE SECTION 2304.11.
- 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.
- 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.
- NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING.

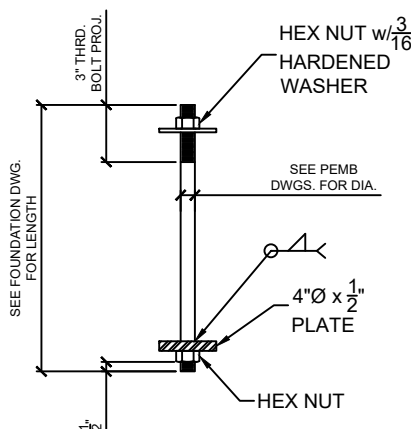


FLOORPLAN

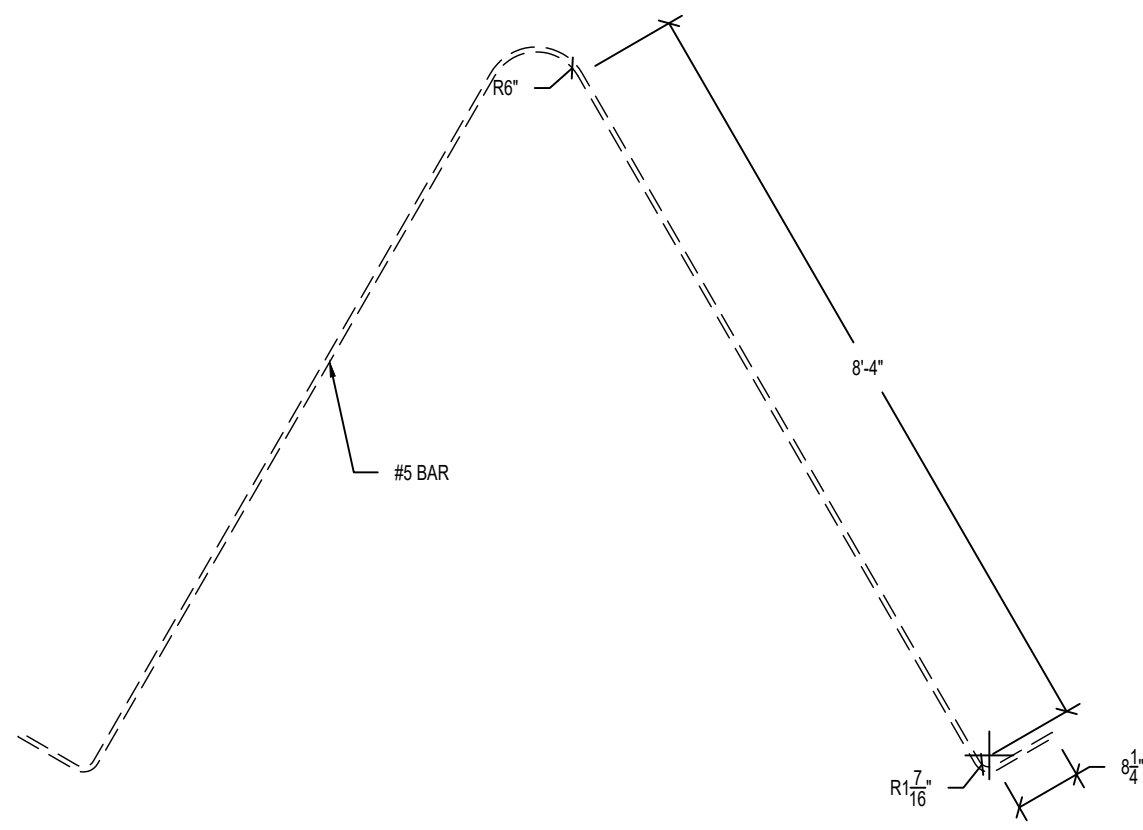
SCALE: 1/8"=1'-0"



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



ANCHOR BOLT DETAIL  
SCALE: N.T.S.



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

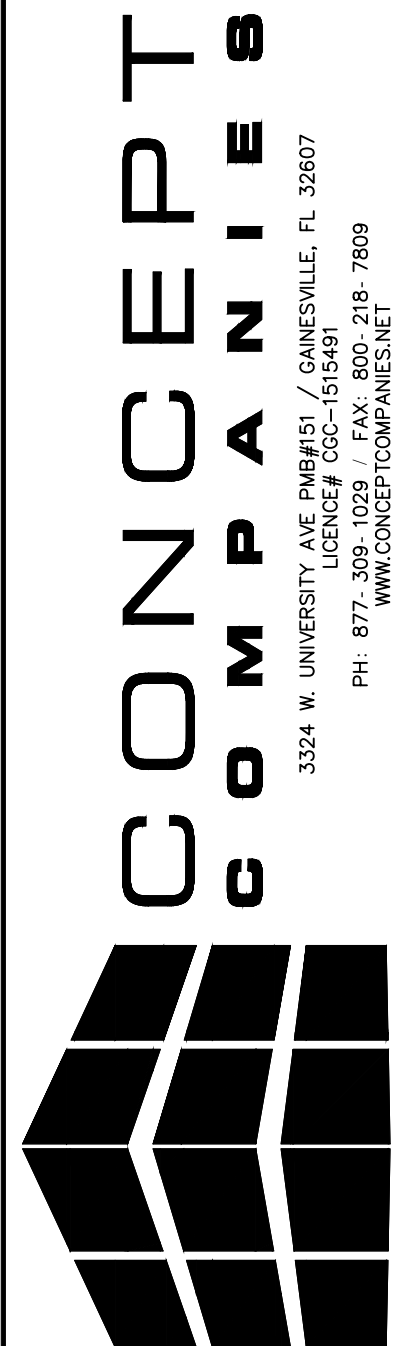


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PH: (813) 961-3075 / FAX: (813) 961-1031

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL OF THE STRUCTURAL ELEMENTS AND SYSTEMS FOR THIS STRUCTURE HAVE BEEN DESIGNED TO BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, 7th EDITION 2020. ALL OTHER ELEMENTS, SYSTEMS AND ACCESSORIES ARE THE RESPONSIBILITY OF OTHERS.

Digitally signed by Samuel P. Dean  
Date: 2021.03.22 13:41:04 -0400  
SEAL: [Signature Seal]  
FL # 8394 / C-24 2684  
sdean@beltengineering.com  
WWW.BELTENGINEERING.COM

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STORE # TBD  
2019 PROTOTYPE - PLAN DGP-D - 9,100 SQ. FT.

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

REVISION DATE / REVISED BY:

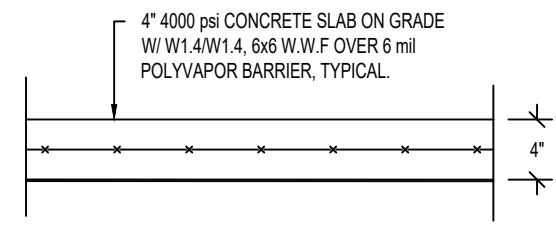
PROJECT NUMBER:  
ET20-929 / 4000.213

DRAWING TITLE:  
FOUNDATION PLAN

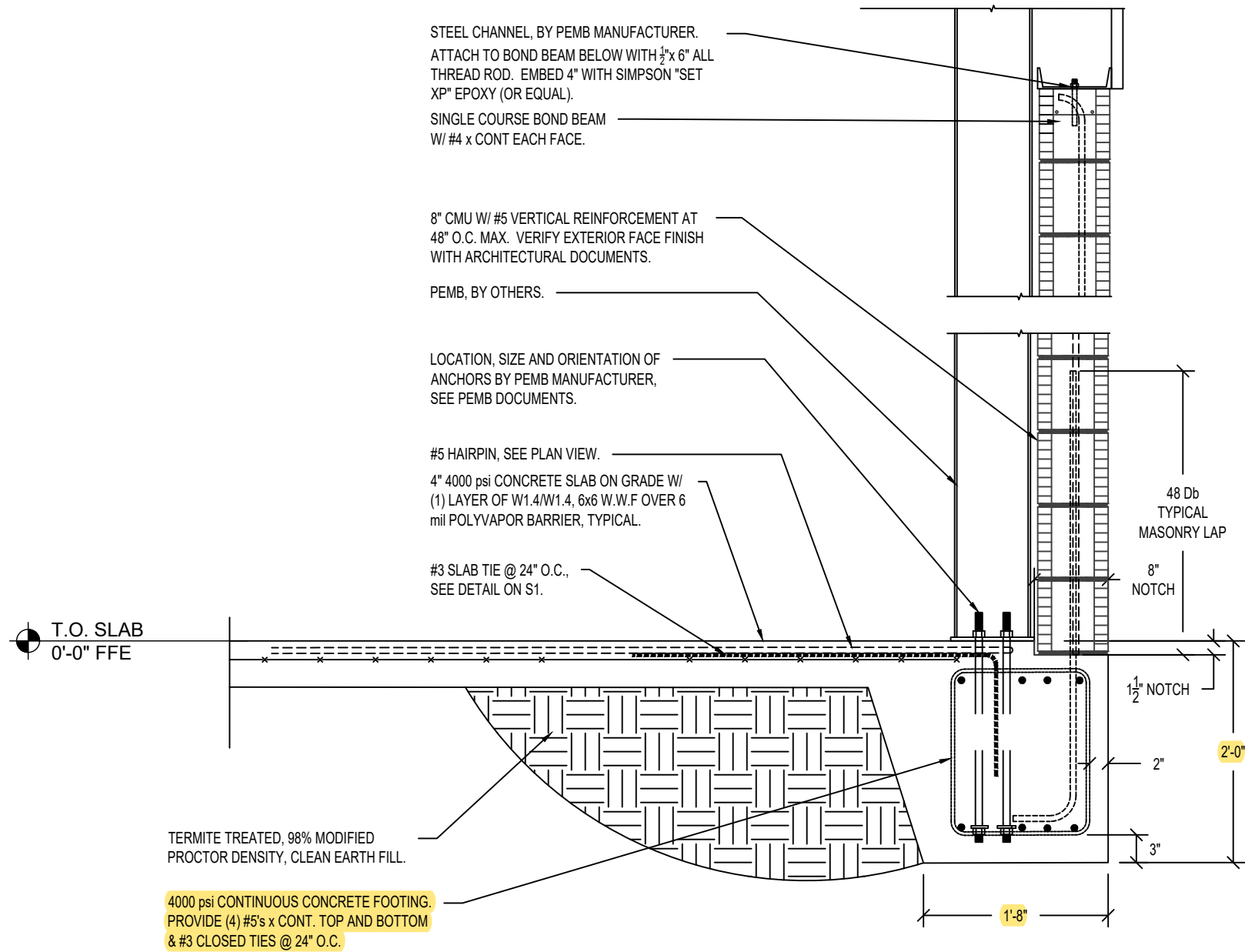
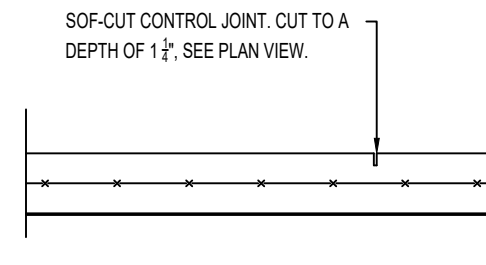
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**S1**

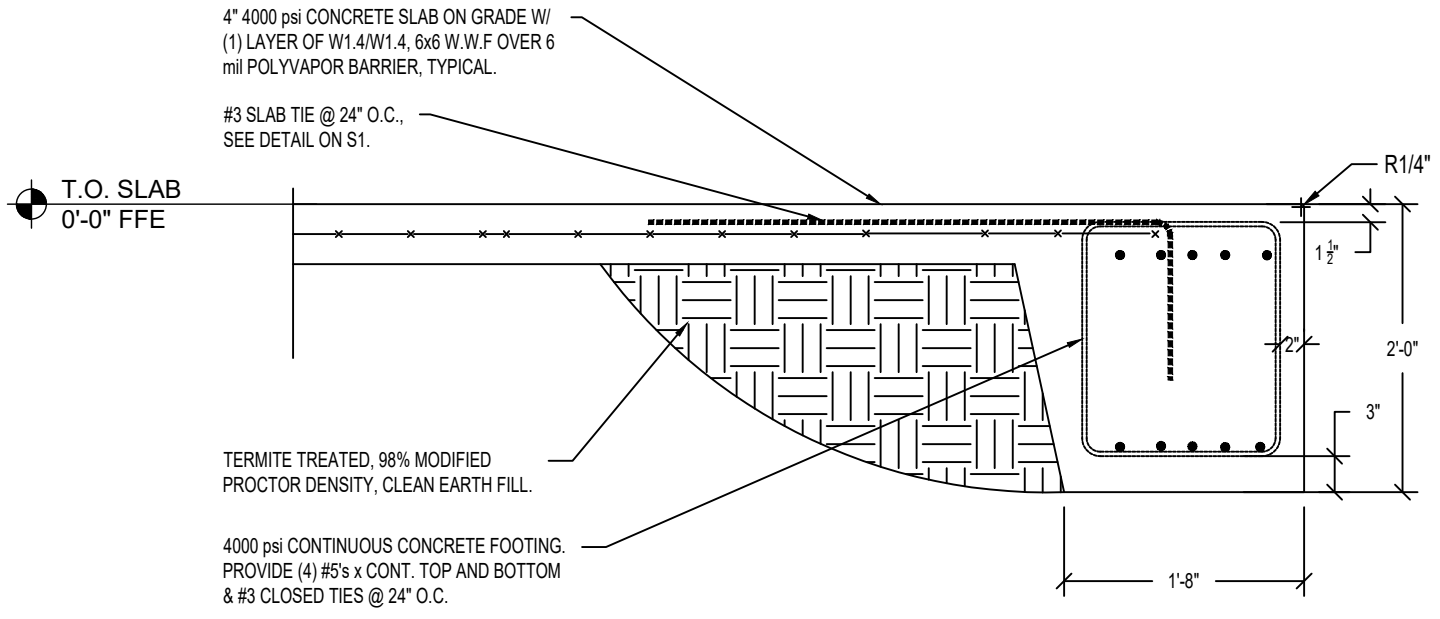




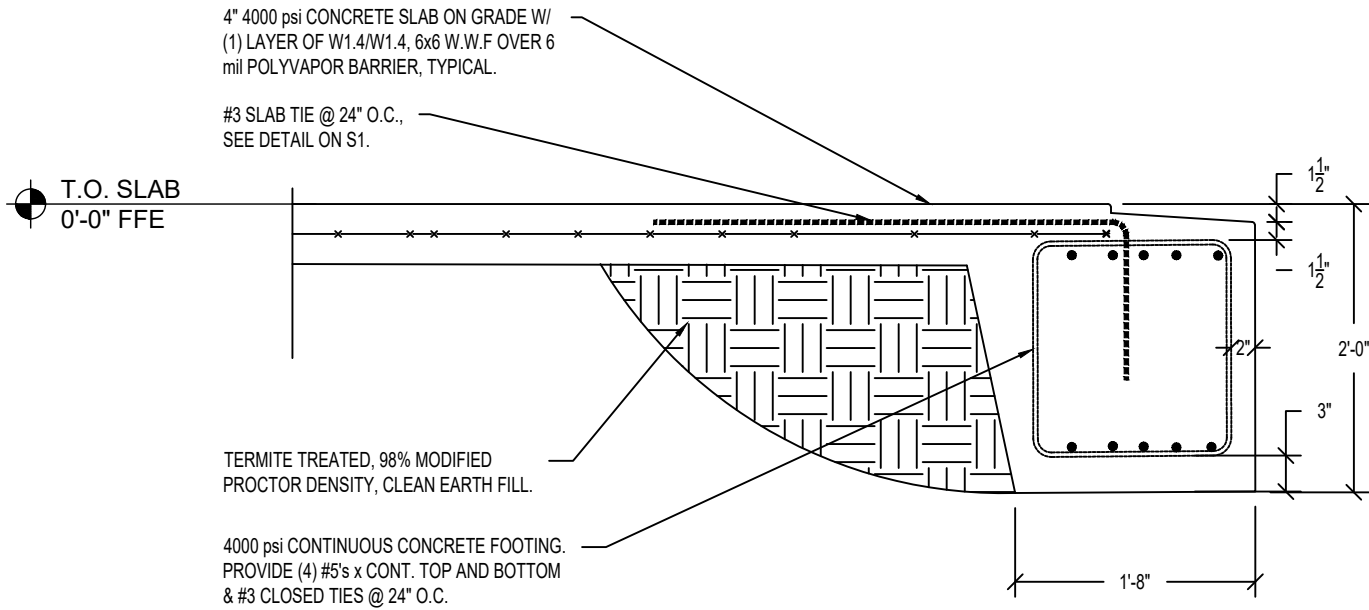
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SCALE: 3/4" = 1'-0"



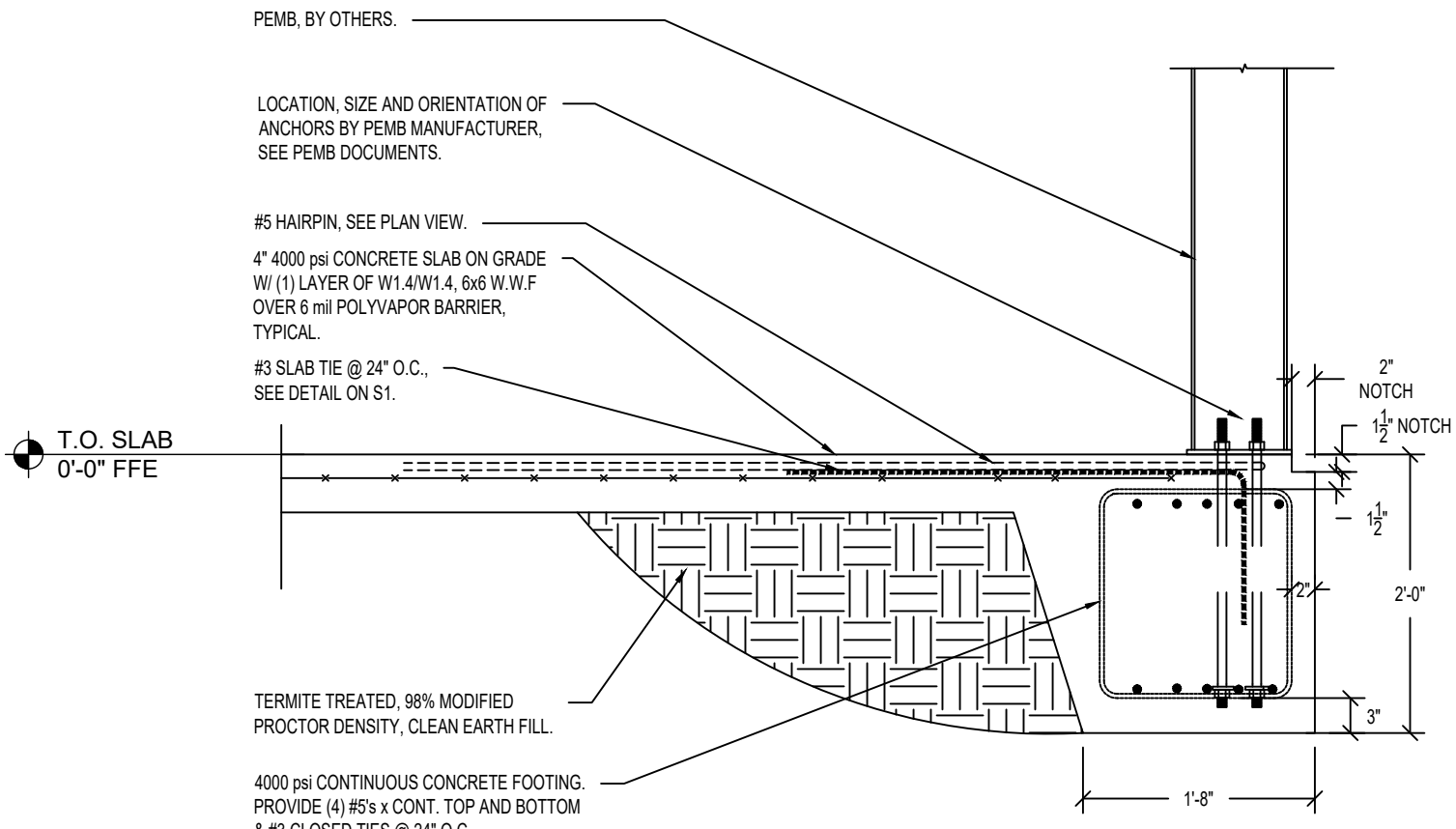
PERIMETER FOOTING ALONG  
8" FACADE AT BUILDING  
FRAME.



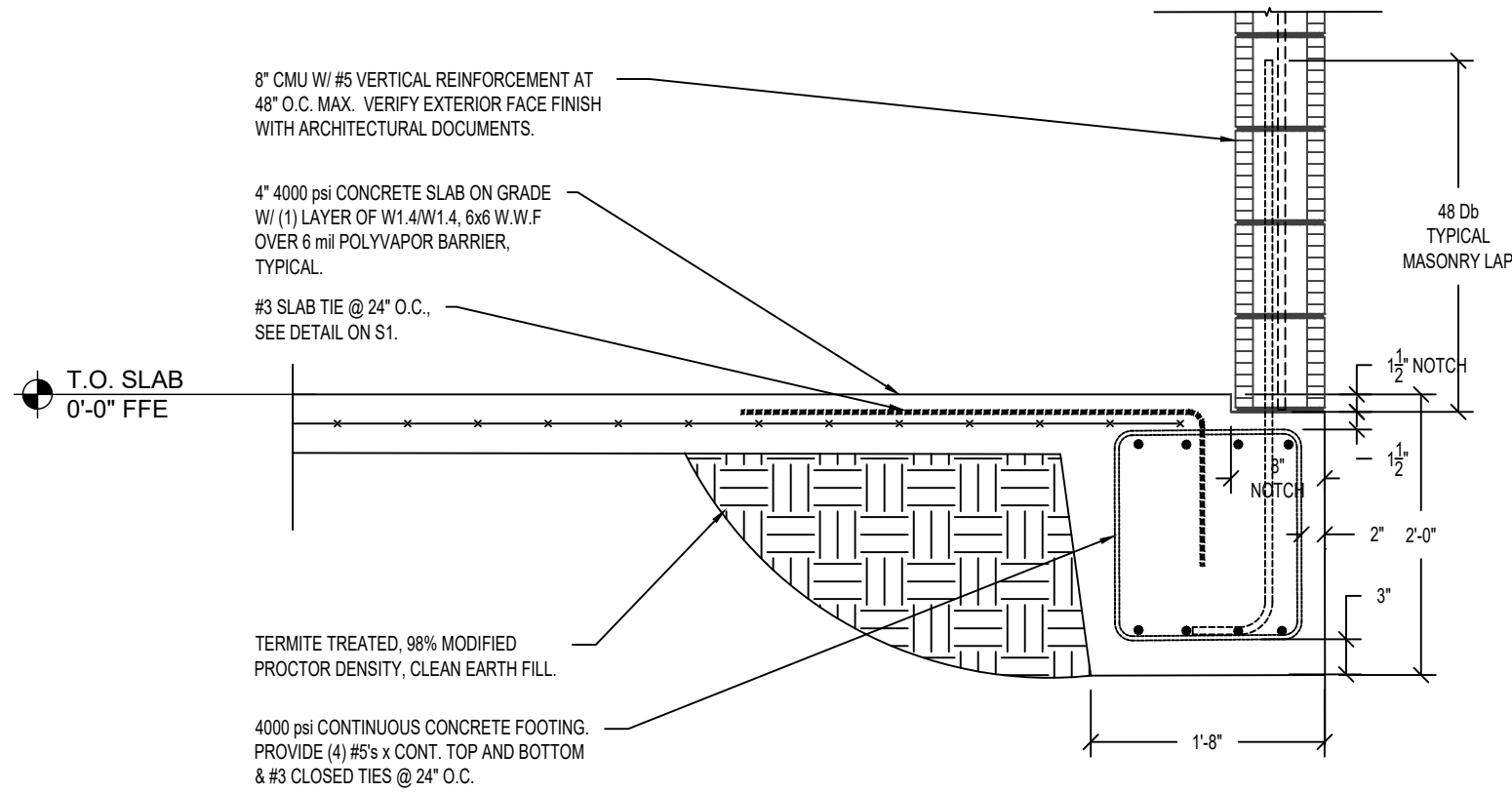
TYPICAL PERIMETER FOOTING  
AT ENTRY DOOR.



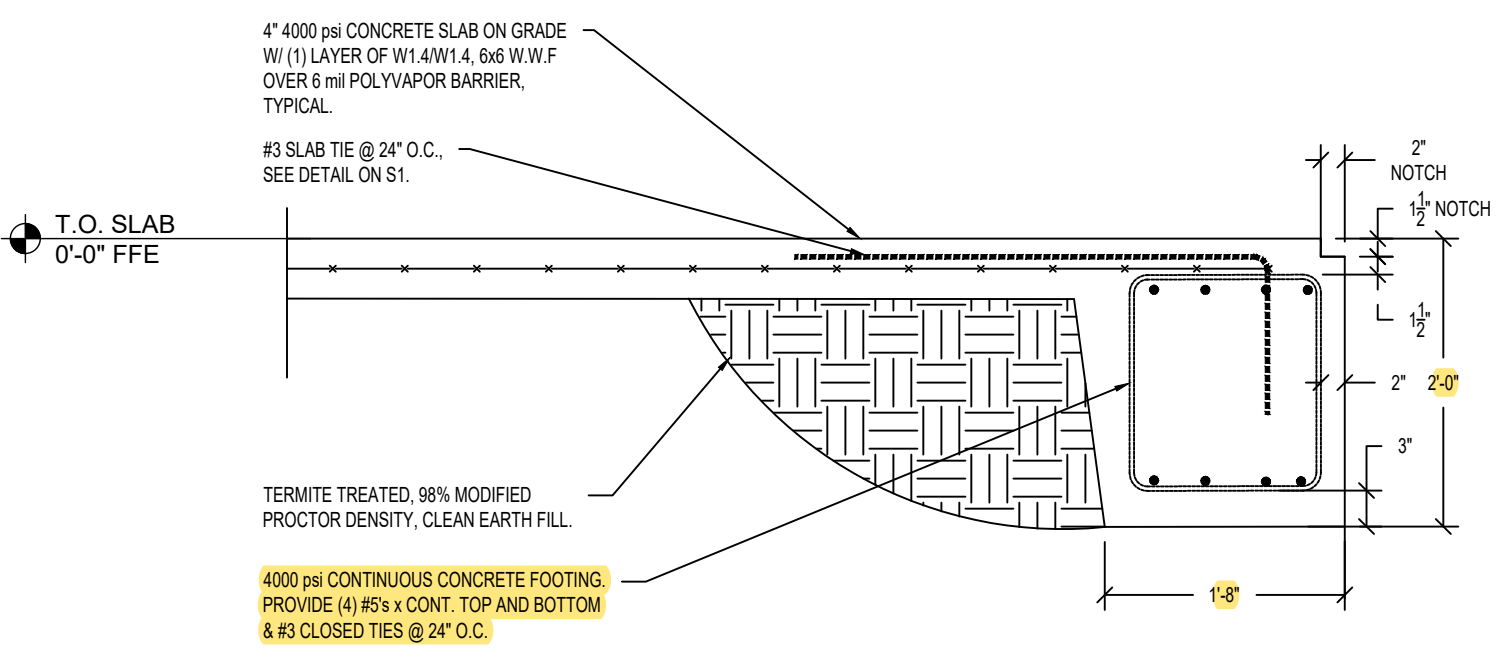
FOOTING ALONG FACADE AT  
FRONT ENTRY.



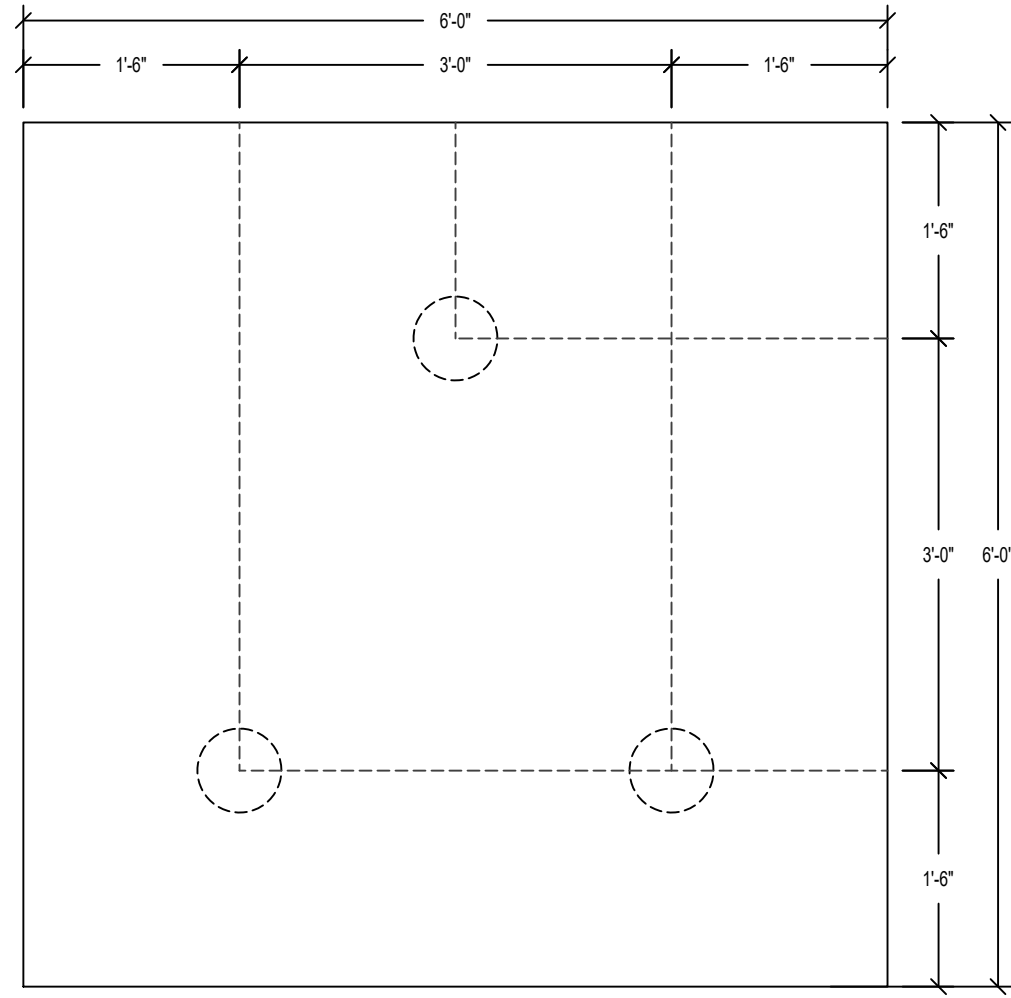
TYPICAL PERIMETER FOOTING  
AT BUILDING FRAME.



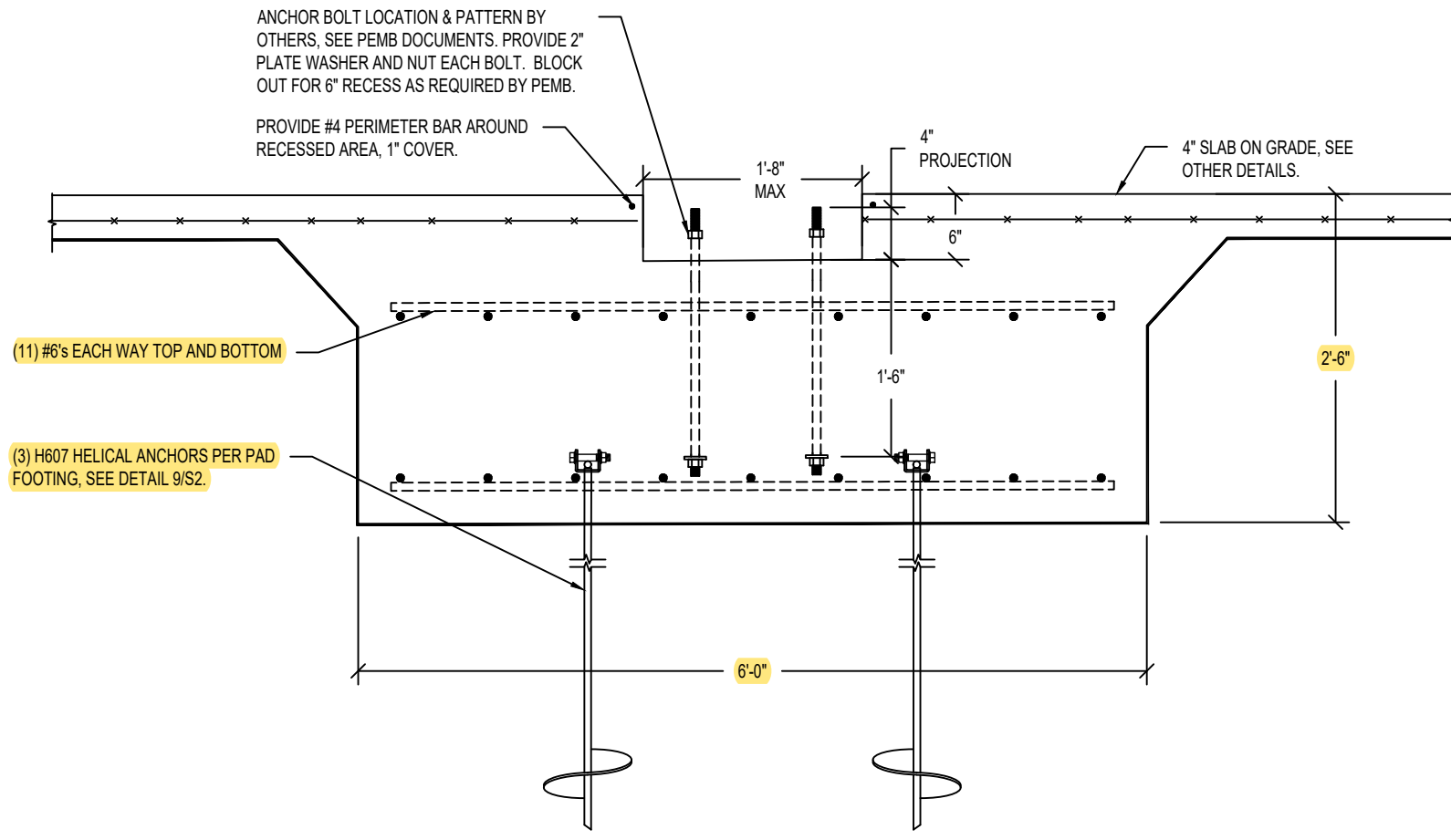
TYPICAL PERIMETER FOOTING  
ALONG 8" FACADE NOT AT  
BUILDING FRAME.



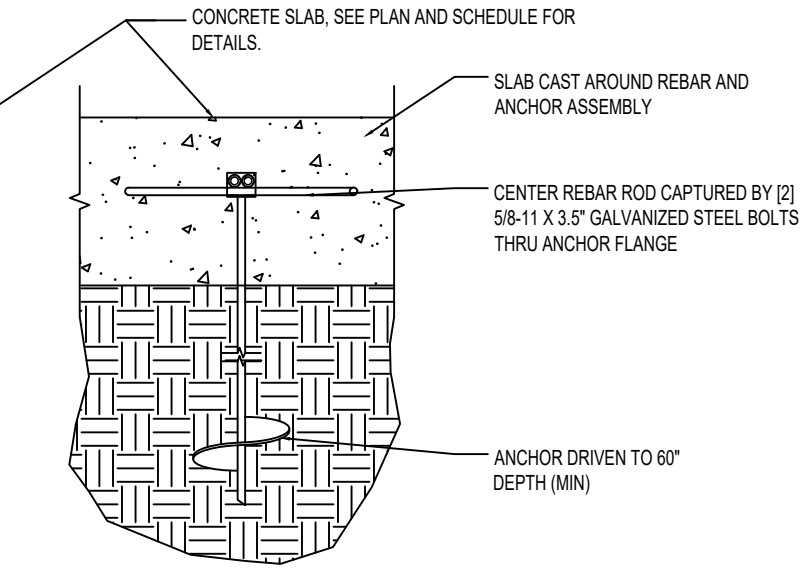
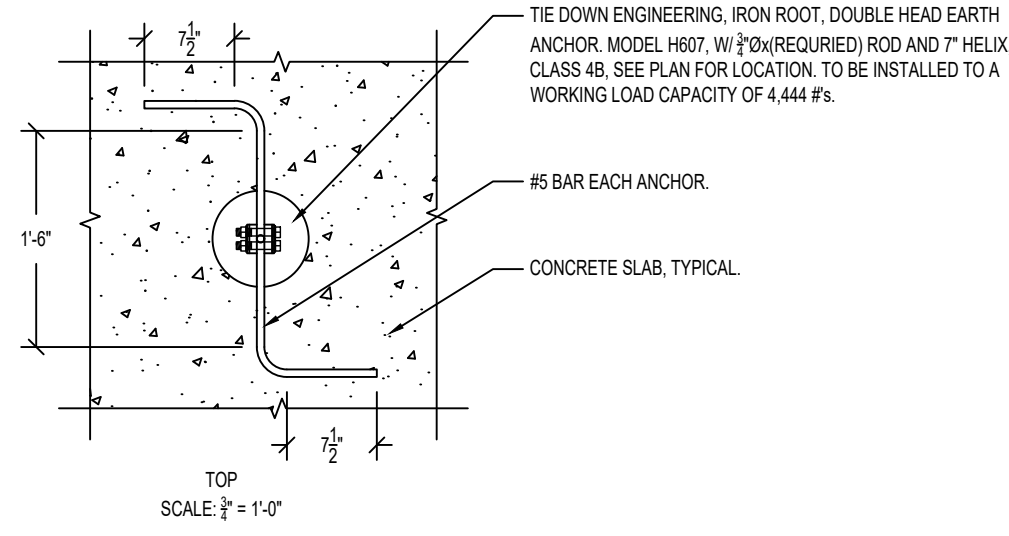
TYPICAL PERIMETER FOOTING  
NOT AT BUILDING FRAME.



HELICAL ANCHOR ORIENTATION  
TOP VIEW



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



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

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

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

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

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

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

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

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

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

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

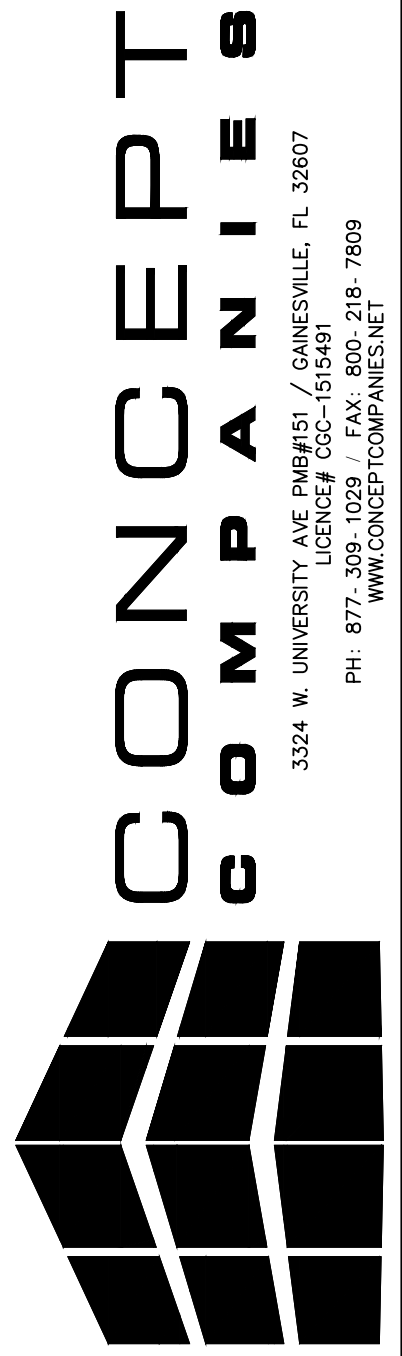


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DRAWN BY: J. DEAN, P.E.  
CHECKED BY: J. DEAN, P.E.  
DATE: 03/15/2021  
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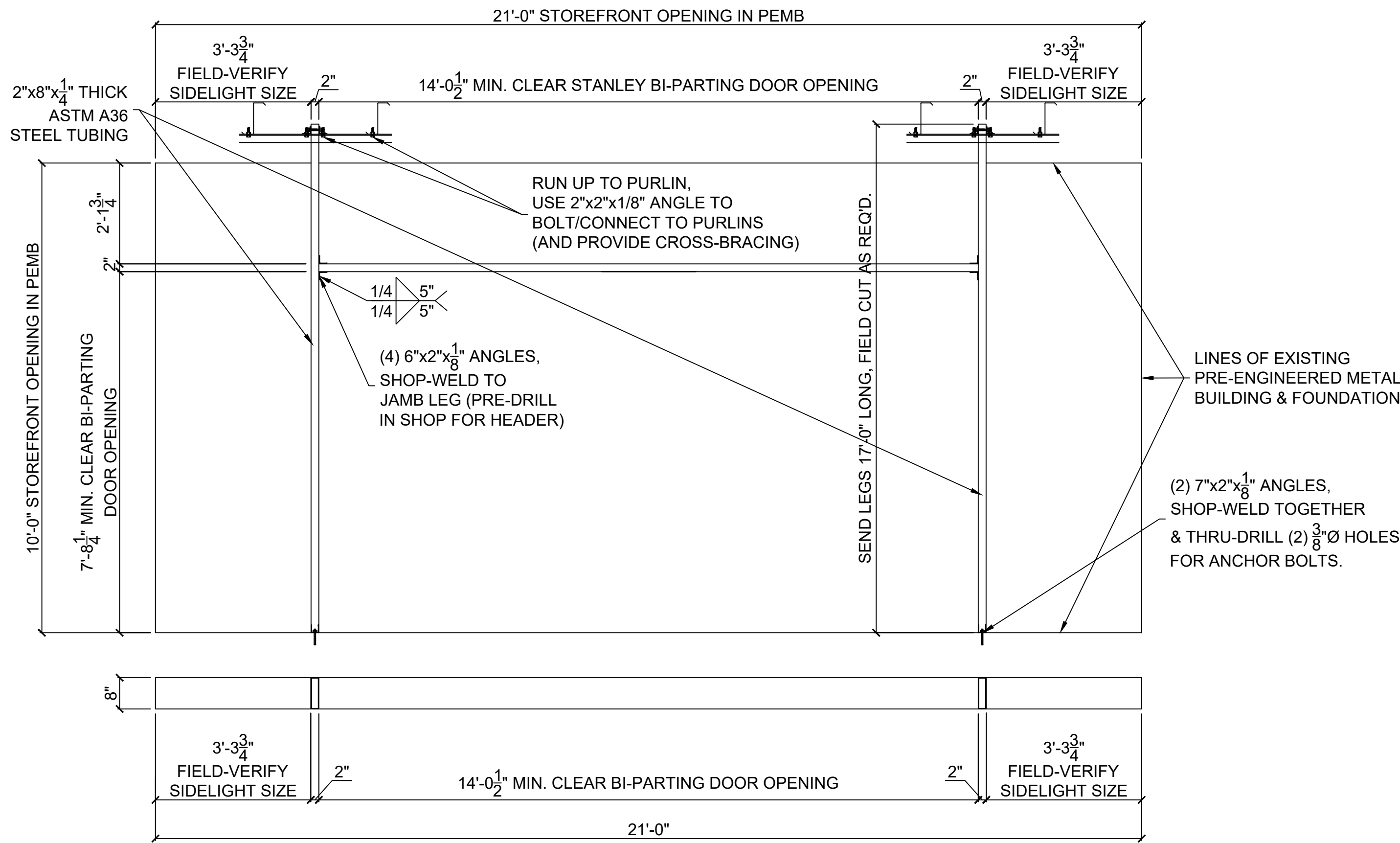
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STORE # TBD  
2019 PROTOTYPE - PLAN DGTIP-D - 9,100 SQ. FT.

DRAWING DATE / DRAWN BY:  
03/15/2021 IB  
REVISION DATE / REVISED BY:  
PROJECT NUMBER:  
ET20-929 / 4000.213  
DRAWING TITLE:  
FOUNDATION DETAILS  
SHEET NO.

S2

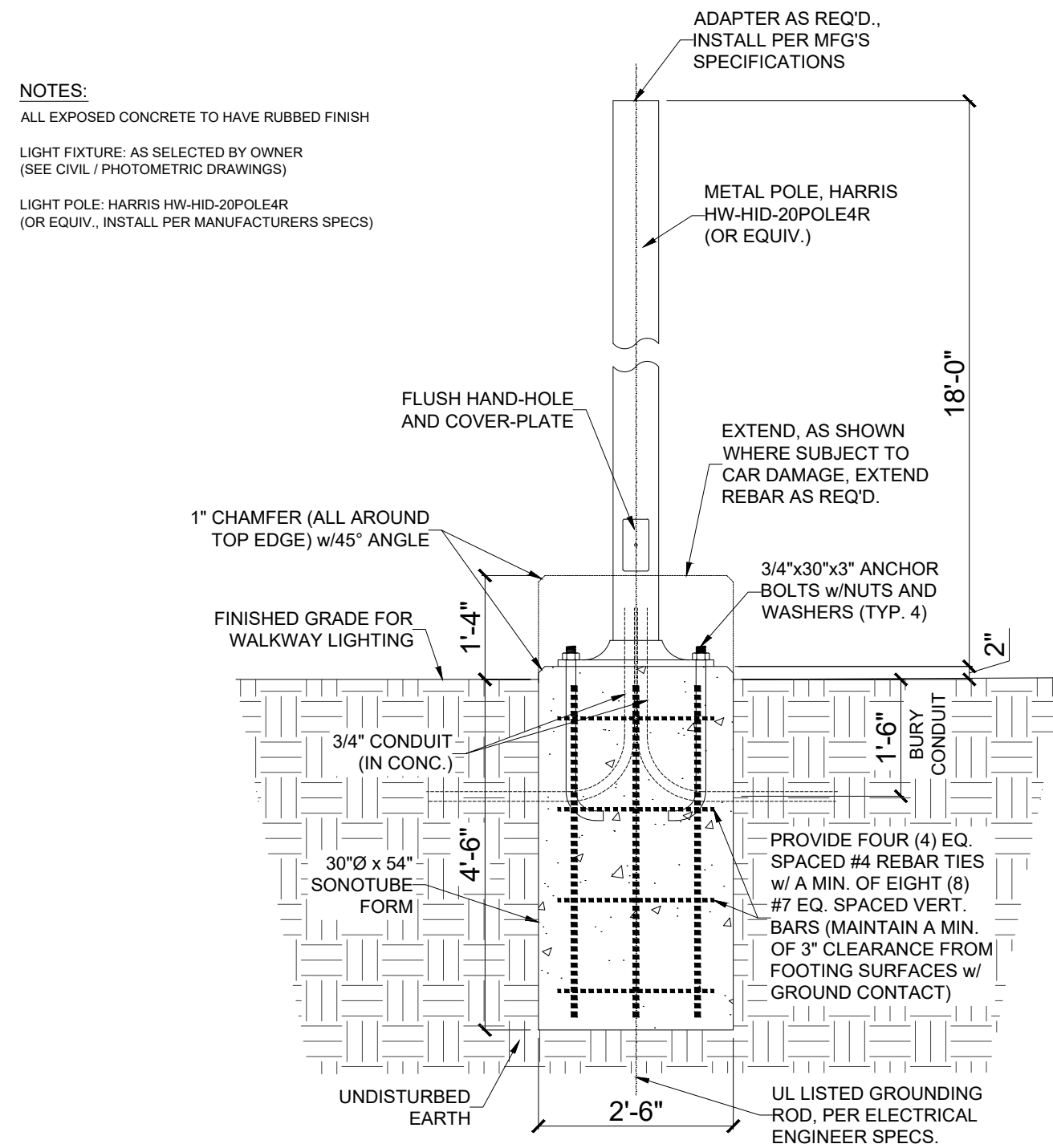
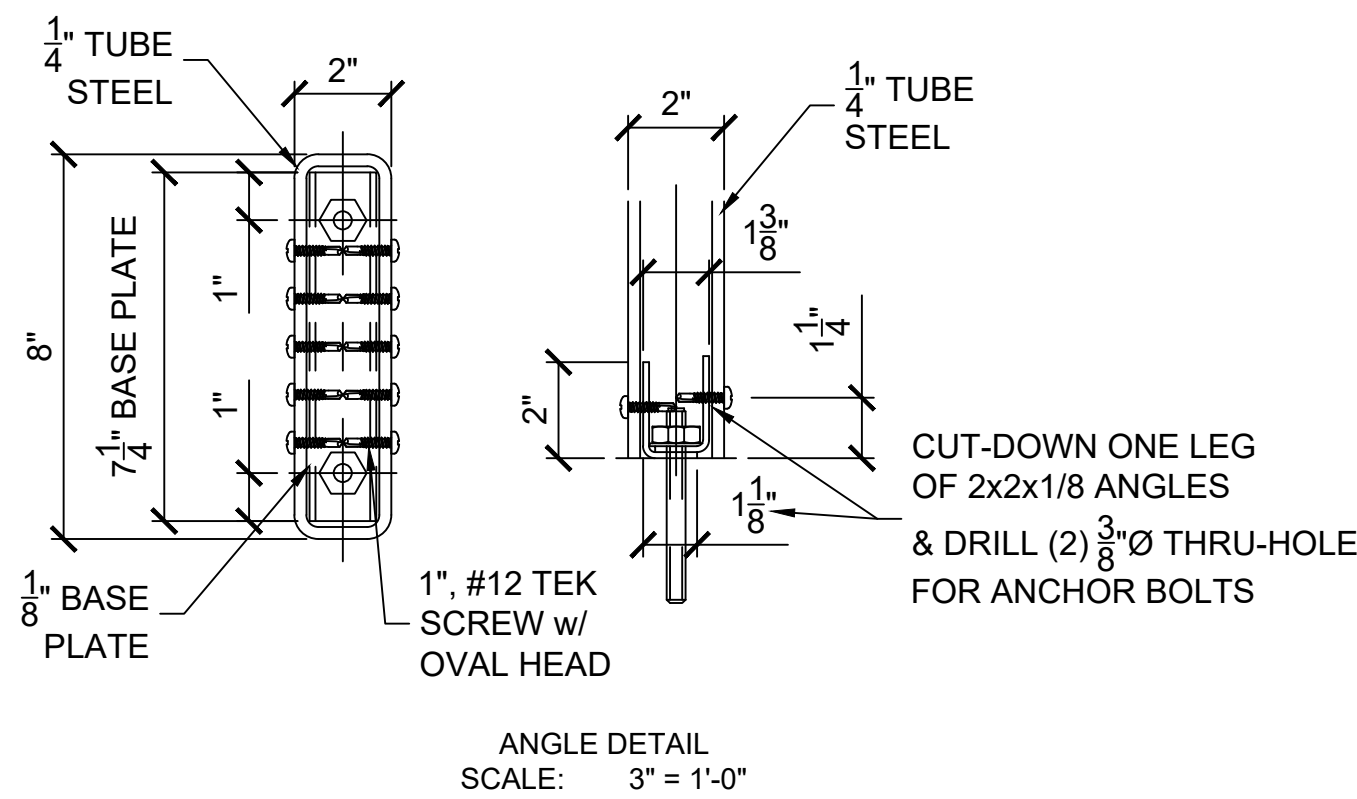
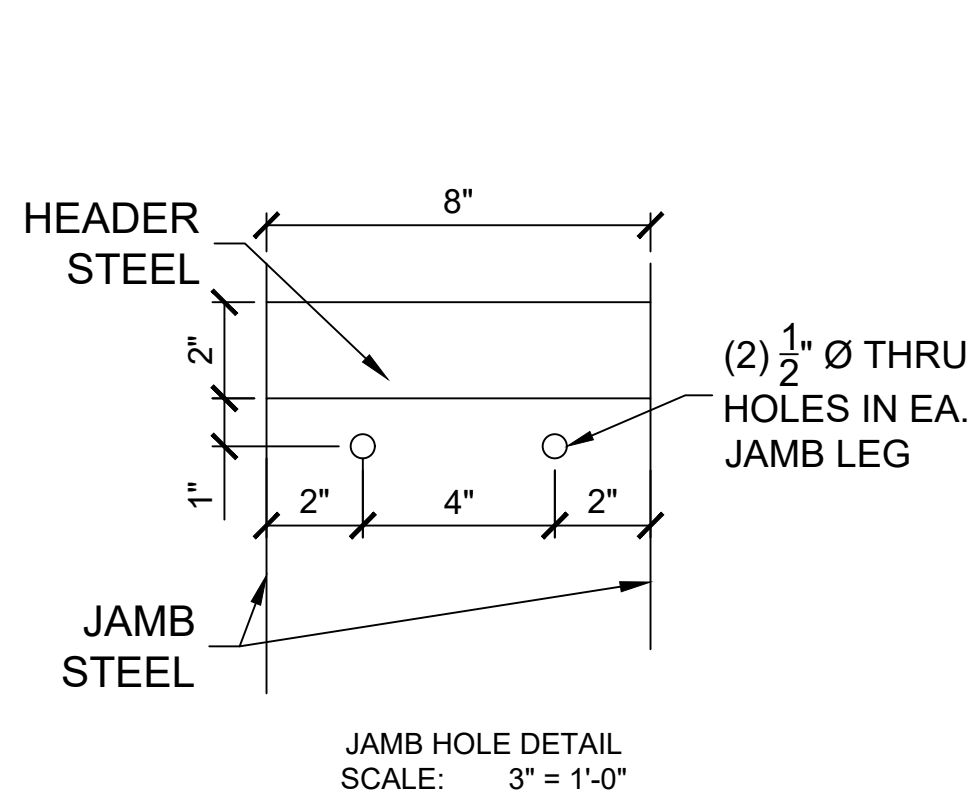




1  
S3

## DETAIL

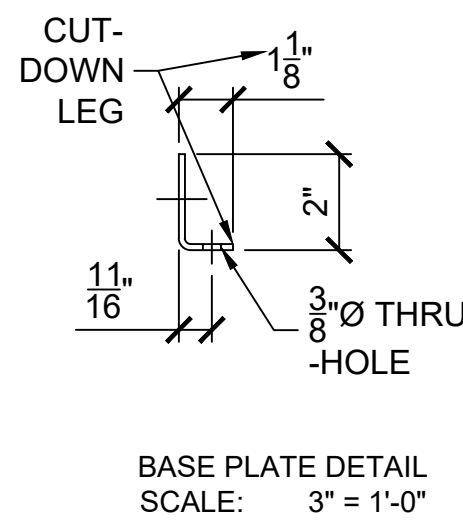
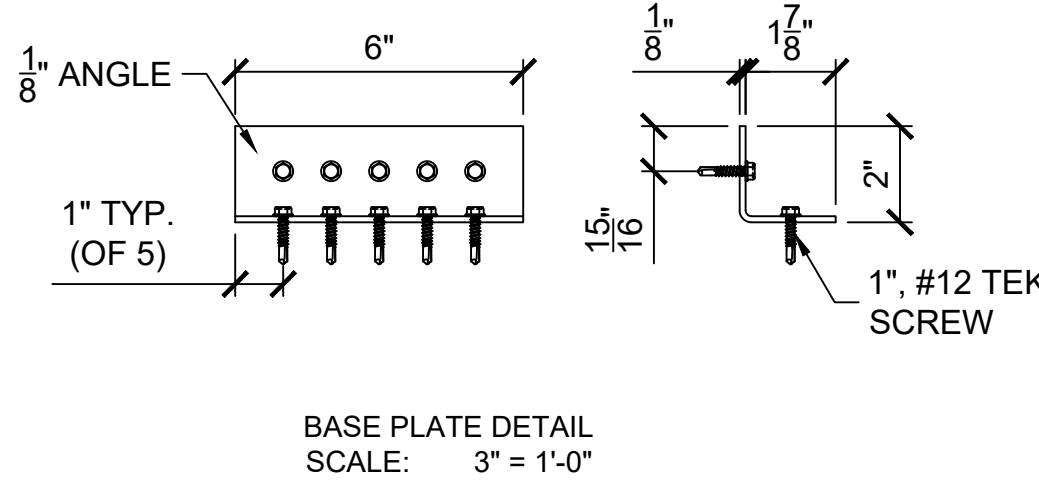
SCALE: 1/2" = 1'-0"



2  
S3

## DETAIL

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



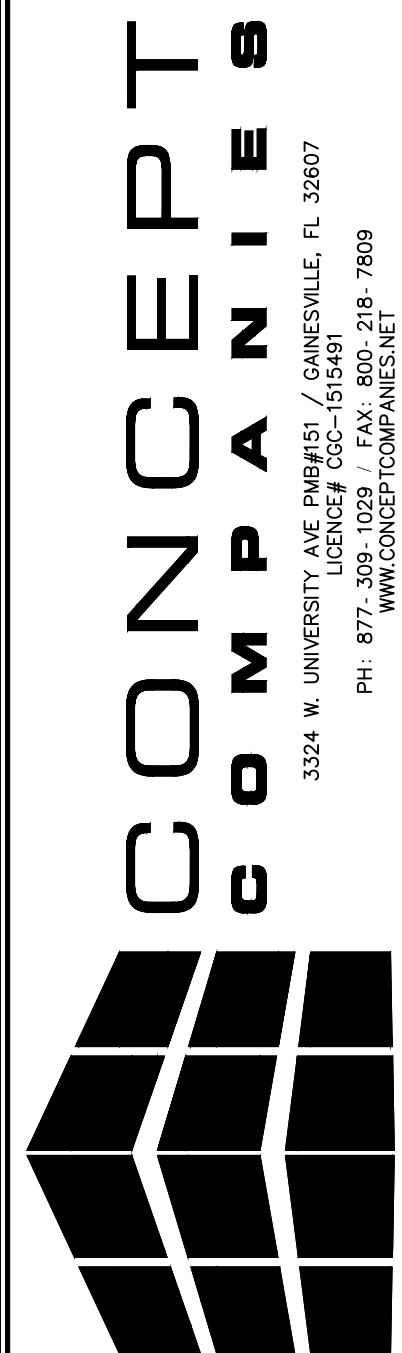
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SAMUEL P. DEAN, P.E.  
sdean@betengineering.com  
WWW.BETENGINEERING.COM

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2019 PROTOTYPE - PLAN "DGP-D" - 9,100 SQ. FT.

DRAWING DATE / DRAWN BY:

03/15/2021 IB

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ET20-929 / 4000.213

DRAWING TITLE:

STEEL DETAILS

SHEET NO.

S3