



STATE OF CONNECTICUT  
*CONNECTICUT SITING COUNCIL*

Ten Franklin Square, New Britain, CT 06051  
Phone: (860) 827-2935 Fax: (860) 827-2950  
E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)  
Web Site: [portal.ct.gov/csc](http://portal.ct.gov/csc)

**VIA ELECTRONIC MAIL**

June 29, 2023

Bradley J. Parsons  
North Haven Solar One  
c/o Verogy  
124 LaSalle Road, 2<sup>nd</sup> Floor  
West Hartford, CT 06107  
[bparsons@verogy.com](mailto:bparsons@verogy.com)

RE: **PETITION NO. 1541** – North Haven Solar One, LLC declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a 1.625-megawatt AC solar photovoltaic electric generating facility located at 122 Mill Road, North Haven, Connecticut, and associated electrical interconnection.

Dear Bradley Parsons:

The Connecticut Siting Council (Council) is in receipt of your correspondence dated June 28, 2023, regarding compliance with Condition Nos. 3, 4 and 7 of the Council's Declaratory Ruling issued on December 23, 2022 for the above-referenced facility. The correspondence includes a copy of the DEEP Stormwater Permit, the final structural design for the racking system stamped by a Professional Engineer duly licensed in the State of Connecticut, and notification in writing at least two weeks prior to the commencement of site construction, in accordance with Condition Nos. 3, 4, and 7 respectively.

Therefore, the Council acknowledges that Condition Nos. 3, 4 and 7 have been satisfied. This acknowledgment applies only to the condition satisfied by the June 28, 2023 correspondence.

Please be advised that deviations from the standards established by the Council in the Declaratory Ruling are enforceable under the provisions of Connecticut General Statutes §16-50u.

Thank you for your attention and cooperation.

Sincerely,

A handwritten signature in dark ink, appearing to read "Melanie A. Bachman".

Melanie A. Bachman  
Executive Director

MB/MP/laf

North Haven Solar One  
c/o Verogy  
124 LaSalle Road, 2<sup>nd</sup> Floor  
West Hartford, CT 06107

June 28, 2023

***Via Electronic Filing and FedEx Delivery***

Melanie A. Bachman, Executive Director/Staff Attorney  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**Re: Petition No. 1541 North Haven Solar One, LLC for a Declaratory Ruling for the Proposed Construction, Operation and Maintenance of a 1.625 MW AC Solar Photovoltaic Electric Generating Facility Located at 122 Mill Road, North Haven, Connecticut**

Dear Ms. Bachman:

As you know, on December 22, 2022 the Connecticut Siting Council (“Council”) approved the above-referenced Petition for Declaratory Ruling (“Petition”) subject to certain conditions. In accordance with Condition Nos. 1 thru 8 of the Council’s approval, you will find fifteen (15) copies of the attached exhibits and status of each of the conditions as follows for Council staff review and approval.

1. Approval of any project changes be delegated to Council staff;

*There are no changes to the plans that were submitted.*

2. Implement the eastern box turtle and wood turtle protection plan recommended by the Department of Energy and Environmental Protection in the Natural Diversity Data Base Determination letter dated March 1, 2022 during project construction;

*The Petitioner is implementing the protection plan as recommended by CT DEEP and VHB will be performing the required work for this plan.*

3. Submit a copy of a DEEP Stormwater Permit prior to commencement of construction;

*See attached. Exhibit A for the DEEP Stormwater Permit.*

4. Submit the final structural design for the racking system stamped by a Professional Engineer duly licensed in the State of Connecticut prior to commencement of construction;

*See attached, Exhibit B for the final structural racking drawings stamped by a Professional Engineer licensed in the State of Connecticut.*

5. Provide training to emergency responders;

*Once the project is constructed the Petitioner will reach out to emergency responders to provide training.*

6. Utilize a pollinator seed mix where feasible;

*A pollinator seed mix will be used on the project where feasible.*

8. The Council shall be notified in writing at least two weeks prior to the commencement of site construction activities;

*The Project is intending to start construction July 5, 2023.*

Should you have any questions concerning this submittal, please contact me at your convenience.

Sincerely,

A handwritten signature in blue ink, appearing to read 'BJP', with a long horizontal line extending to the right.

Bradley J. Parsons, P.E.  
North Haven Solar One.

Enclosures

Cc: The Honorable Michael J. Freda, First Selectperson, Town of North Haven



**Bureau of Materials Management and Compliance Assurance**

**Notice of Permit Authorization**

March, 27 2023

Brad Parsons  
NORTH HAVEN SOLAR ONE  
150 Trumbull St  
Hartford, CT 06103-2446

Subject: General Permit Registration for the Discharge of Stormwater and Dewatering  
Wastewaters from Construction Activities  
Application NO.: 202210381

Brad Parsons:

The Department of Energy and Environmental Protection, Water Permitting and Enforcement Division of the Bureau of Materials Management and Compliance Assurance, has completed the review of the North Haven Solar One (located at 122 Mill Road, North Haven) registration for the **General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, effective 12/31/2020, modified 11/25/2022 (general permit)**. The project is compliant with the requirements of the general permit and the discharge(s) associated with this project is (are) authorized to commence as of the date of this letter. Permit No. GSN003876 has been assigned to authorize the stormwater discharge(s) from this project.

Questions can be emailed to [deep.stormwater@ct.gov](mailto:deep.stormwater@ct.gov).

# STRUCTURAL PRINT PACKAGE - 220695

## NORTH HAVEN, CT 06473

RACKING PROVIDER



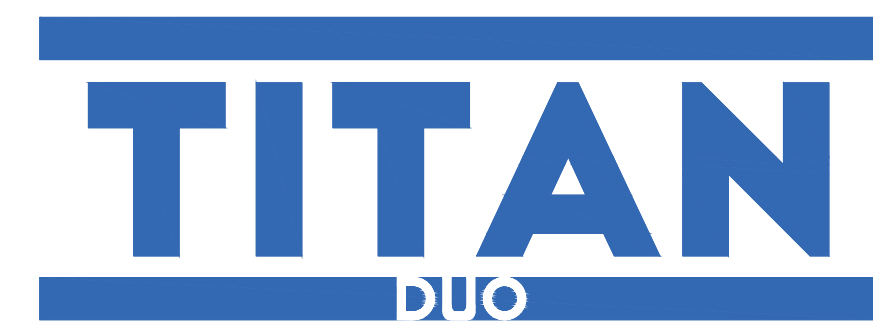
20-345 COUNTY ROAD X  
RIDGEVILLE CORNERS, OHIO 43555  
(P) 419.267.5280  
(F) 419.267.5214  
WWW.APASOLAR.COM

STRUC. ENGINEER OF RECORD



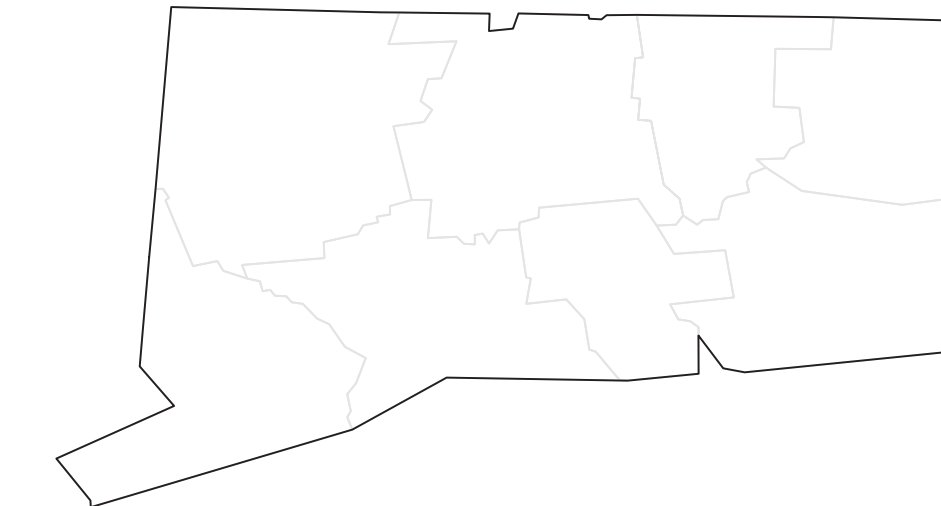
360 W. DUSSEL DR.  
MAUMEE, OH 43537  
[P] 419.725.7161  
[F] 419.725.7160

RACKING PRODUCT LINE



USE WITH THE FOLLOWING PRINTS & PACKAGES. INCLUDE WITH SUBMISSION TO PERMIT/INSPECTION AGENCY:

- CALCULATION PACKAGE: 220695 CALC SET - STAMPED
- FOUNDATION DESIGN REPORT (SITE SPECIFIC, & ONLY WHERE REQUIRED BY EOR OR AHJ)



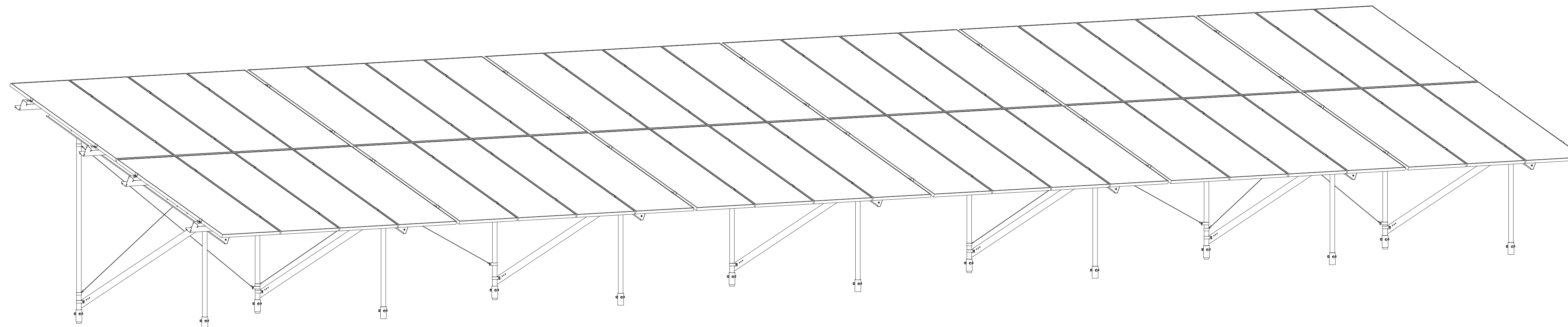
SITE ADDRESS: 122 MILL RD.  
NORTH HAVEN, CT 06473

REVISION: B

PERMIT SET/  
STRUCTURAL PACKET

APPROVED

### SOLAR PHOTOVOLTAIC GROUND MOUNT



SHEET INDEX

STRUCTURAL		
S-000	B	STRUCTURAL COVER
S-100	A	RACKING OVERVIEW
S-200	A	GROUND SCREW: SECTION A
S-201	A	GROUND SCREW: SECTION B
S-300	A	STRUCTURAL COMPONENTS
S-400	A	CONNECTIONS
S-500	A	STRUCTURAL PURLINS
S-600	A	CLAMPS & BRACES

GOVERNING STRUCTURAL CODE/S

2021 INTERNATIONAL BUILDING CODE

PACKAGE COVERAGE - LOADING AND SETUP RANGES & CONSTANTS

TILT ANGLES: 25°  
MAX GROUND SNOW LOAD (PSF): 30  
MAX WIND LOADS (MPH): 110  
WIND EXPOSURE CATEGORY: C  
MAX SEISMIC Ss: 0.204 g  
MAX SEISMIC S1: 0.054 g

PV MODULE: PHONO SOLAR

MAX. PANEL WIDTH: 44.65"  
MAX. PANEL LENGTH: 89.69"  
MAX. PANEL HEIGHT: 2.00"  
MAX. PANEL WEIGHT: 62.00 LBS

RISK CATEGORY: I  
MAX FRONT LIP CLEARANCE: 48"

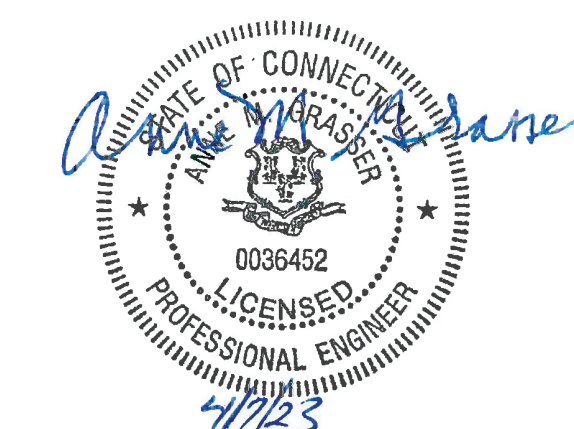
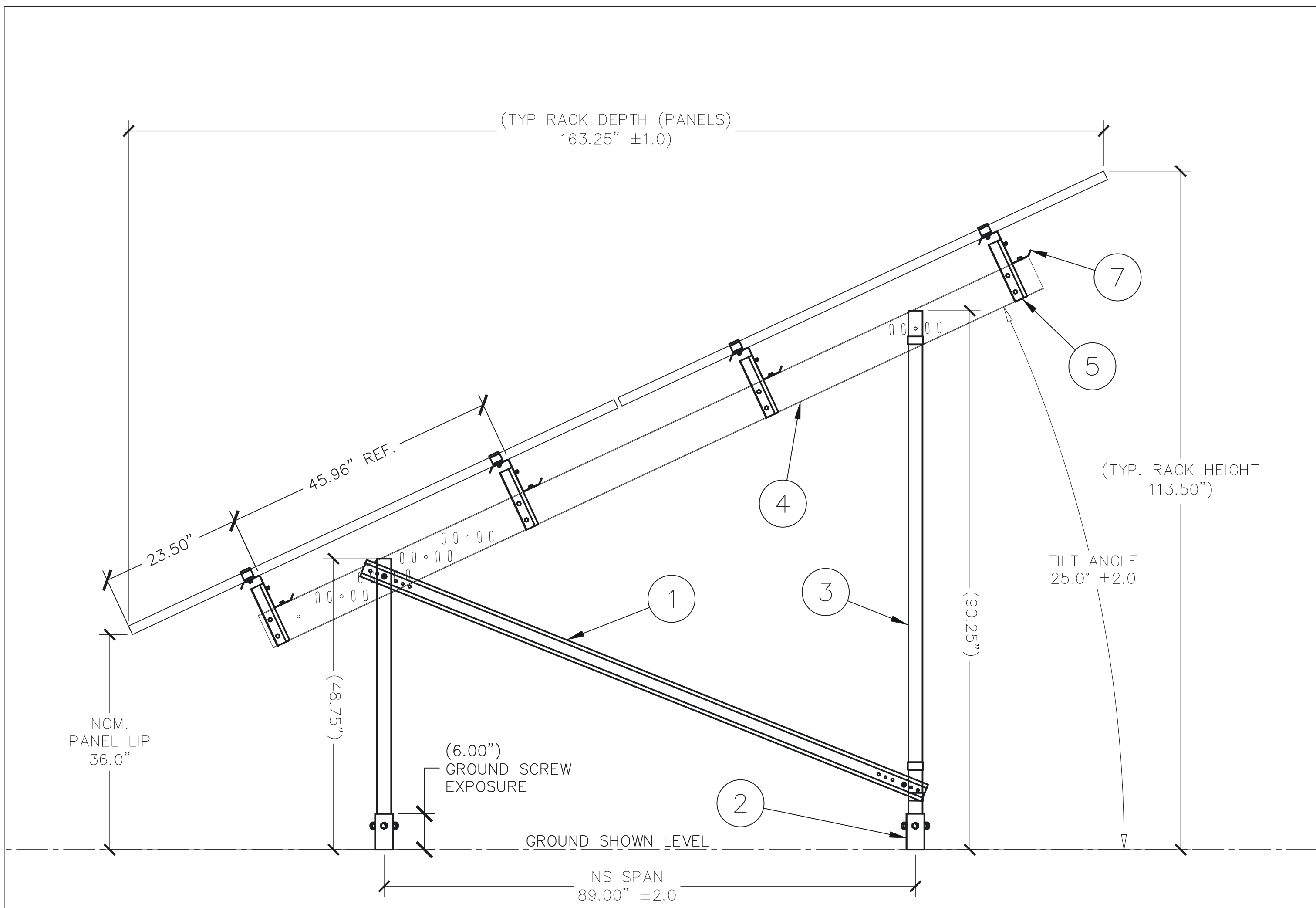


IMAGE FOR REFERENCE ONLY

SCALE IS REDUCED WHEN SHEET SIZE IS 11" x 17"

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AP ALTERNATIVES, LLC ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE EXPRESS WRITTEN PERMISSION IS PROHIBITED

SCALE IS REDUCED WHEN SHEET SIZE IS 11" x 17"



**PARTS LIST (BALLOONS THIS SHEET)**

ITEM	DESCRIPTION	SHAPE	DETAIL / SHEET
1	KNEE BRACE	CEE	B2 / S.300
2	GROUND SCREW	POST	D2 / S.200
3	FOUNDATION POST	POST	A6 / S.300
4	NS CHORD	CEE	D1 / S.300
5	ROLL BAR	MIXED	A4 / S.300
6	TRANSVERSE BRACE	HAT	D5 / S.600
7	ZEE PURLIN	ZEE	E1 / S.300
8	CABLE BRACE	CABLE	D4 / S.600

SEE VIEW A1 ON S600 FOR VIEW OF TRANSVERSE BRACE

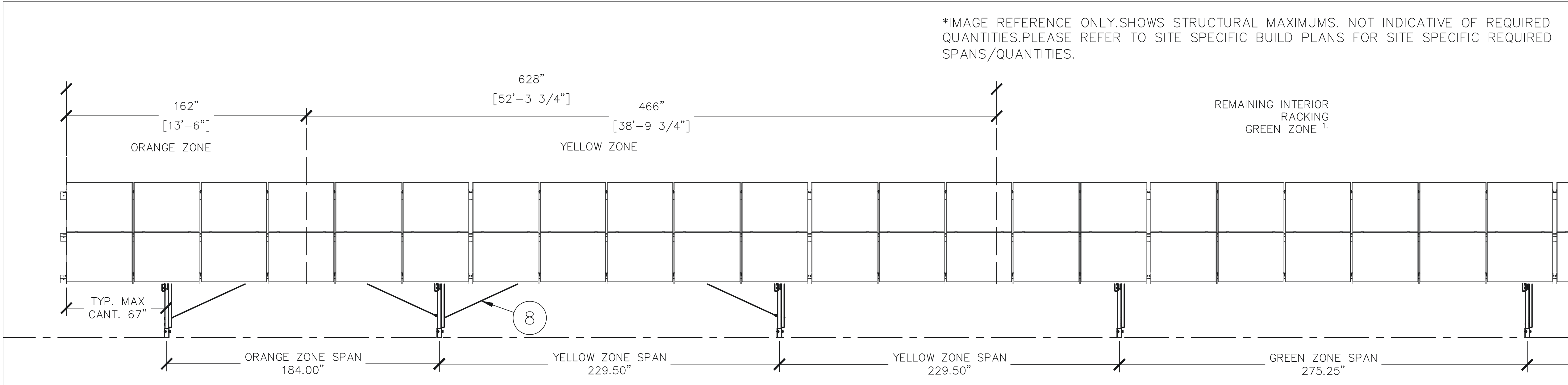
- NOTES:**
- STANDARD FRONT LIP HEIGHT AND TILT ANGLES MEASURED FROM LEVEL GROUND
  - FOUNDATION TESTING, WHERE REQUIRED, SHALL BE DONE ACCORDING TO THE "QUICK TEST METHOD" PER ASTM D1143 & D3689.
  - PRINT DIMENSIONS: DIMENSIONS SHOWN REFLECT POST HEIGHTS ON LEVEL GROUND. ON UNEVEN TERRAIN, REAR FOUNDATION POST HEIGHT WILL BE DICTATED BY FRONT LIP HEIGHT, PANEL TILT, AND NORTH/SOUTH POST SPACING.
  - ADDITIONAL TOLERANCES: POST PLUMBNESS SHOULD BE WITHIN ±2"
  - SPECIAL INSPECTIONS (WHERE REQUIRED):

SPECIAL INSPECTIONS ARE NOT REQUIRED BY APA SOLAR OR THE STRUCTURAL ENGINEER OF RECORD. THE JDI GROUP, WHERE REQUIRED BY OWNER, CUSTOMER, AND/OR AUTHORITY HAVING JURISDICTION, MINIMUM INSPECTION SHALL FOLLOW IBC OR LOCAL AHJ SPECIAL INSPECTIONS GUIDELINES.

NOTES: PV MODULE & MODULE RELATED DIMENSIONS THIS DETAIL ARE MAX ALLOWABLE, UNLESS SPECIFIED ELSEWHERE IN THIS PACKET. DIMENSIONS TO GROUND ARE NOMINAL FROM LEVEL GROUND.

**C1 PROFILE VIEW: RACK OVERVIEW**

\*IMAGE REFERENCE ONLY. SHOWS STRUCTURAL MAXIMUMS. NOT INDICATIVE OF REQUIRED QUANTITIES. PLEASE REFER TO SITE SPECIFIC BUILD PLANS FOR SITE SPECIFIC REQUIRED SPANS/QUANTITIES.



NOTES: MAX CANTILEVER MEASURED FROM EDGE OF PANEL TO POST CENTER.  
 MAX SPAN MEASURED FROM PILE CENTER TO PILE CENTER.  
 POST QUANTITY AS REQUIRED TO SATISFY CANTILEVERS, SPANS, ROW LENGTH, & PANEL QUANTITY  
 1. WHERE ALLOWABLE PER THE CALCULATIONS PACKAGE. EXTERIOR/CORNER AREAS SHALL REMAIN ZONED YELLOW. SEE EXPLANATION IN CALC PACKAGE.  
 SITE SPECIFIC BUILD PLANS SHALL DESIGNATE EXTERIOR/CORNER SPANS.

**A1 ELEVATION VIEW FROM FRONT (NORTH-FACING)**

CUSTOMER

---

RACKING PROVIDER

**APA SOLAR RACKING**  
 20-345 COUNTY ROAD X  
 RIDGEVILLE CORNERS, OHIO 43555  
 (P) 419.267.5280  
 (F) 419.267.5214  
 WWW.APASOLAR.COM

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RACKING TYPE

**TITAN**  
 D15

---

ENGINEER OF RECORD

**the jdi group**  
 architects & engineers

360 W. DUSSEL DR.  
 MAUMEE, OH 43537  
 (P) 419.725.7161 (F) 419.725.7160

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PROFESSIONAL SEAL/STAMP

DOCUMENT NAME:  
**STRUCTURAL PRINT PACKAGE**

SITE STREET ADDRESS:  
**122 MILL RD.**

SITE CITY, STATE, ZIP:  
**NORTH HAVEN, CT 06473**

**SHEET REVISIONS**

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	03/16/2023

**APPROVED**

DRAWN	REVIEWED	APPROVED	SIZE
LB	TM	JDI	D

SHEET NAME  
**RACKING OVERVIEW**

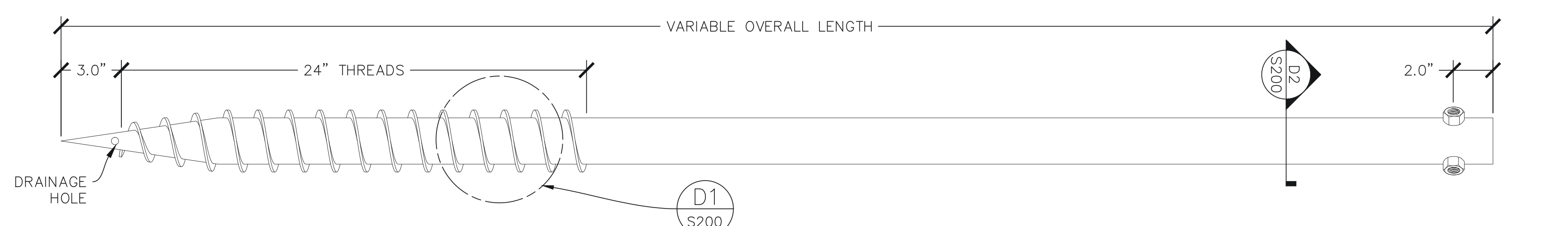
PROJECT NUMBER  
**220695**

DRAWING NUMBER  
**S.100**

REV.  
**A**

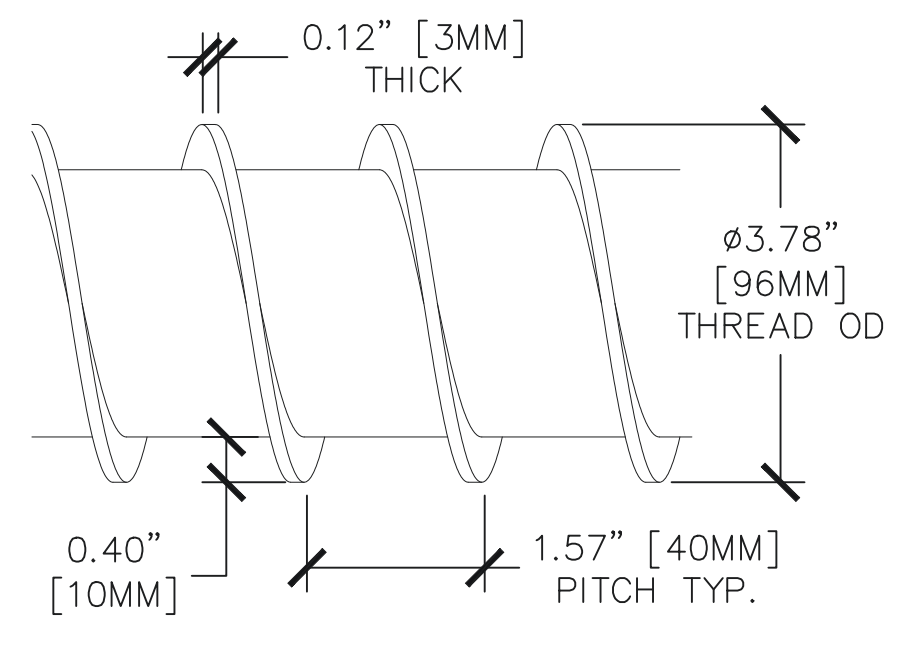
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SCALE IS REDUCED WHEN SHEET SIZE IS 11" x 17"

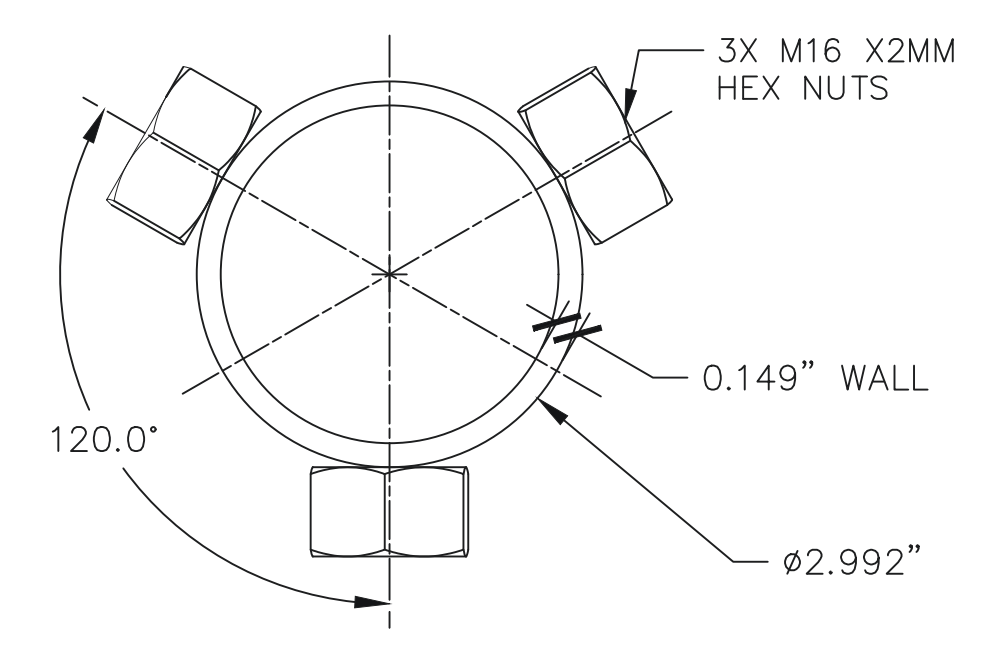


NOTES:  
1. VIEW NOT REPRESENTATIVE OF SCREW TIP OR REQUIRED OVERALL OR THREAD LENGTH.

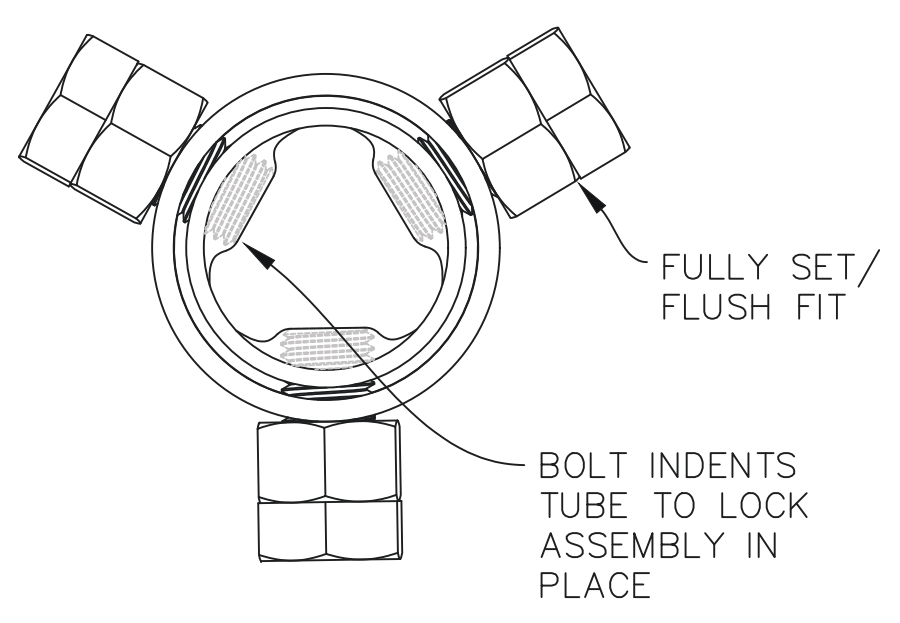
E1 PART: SCREW PILE



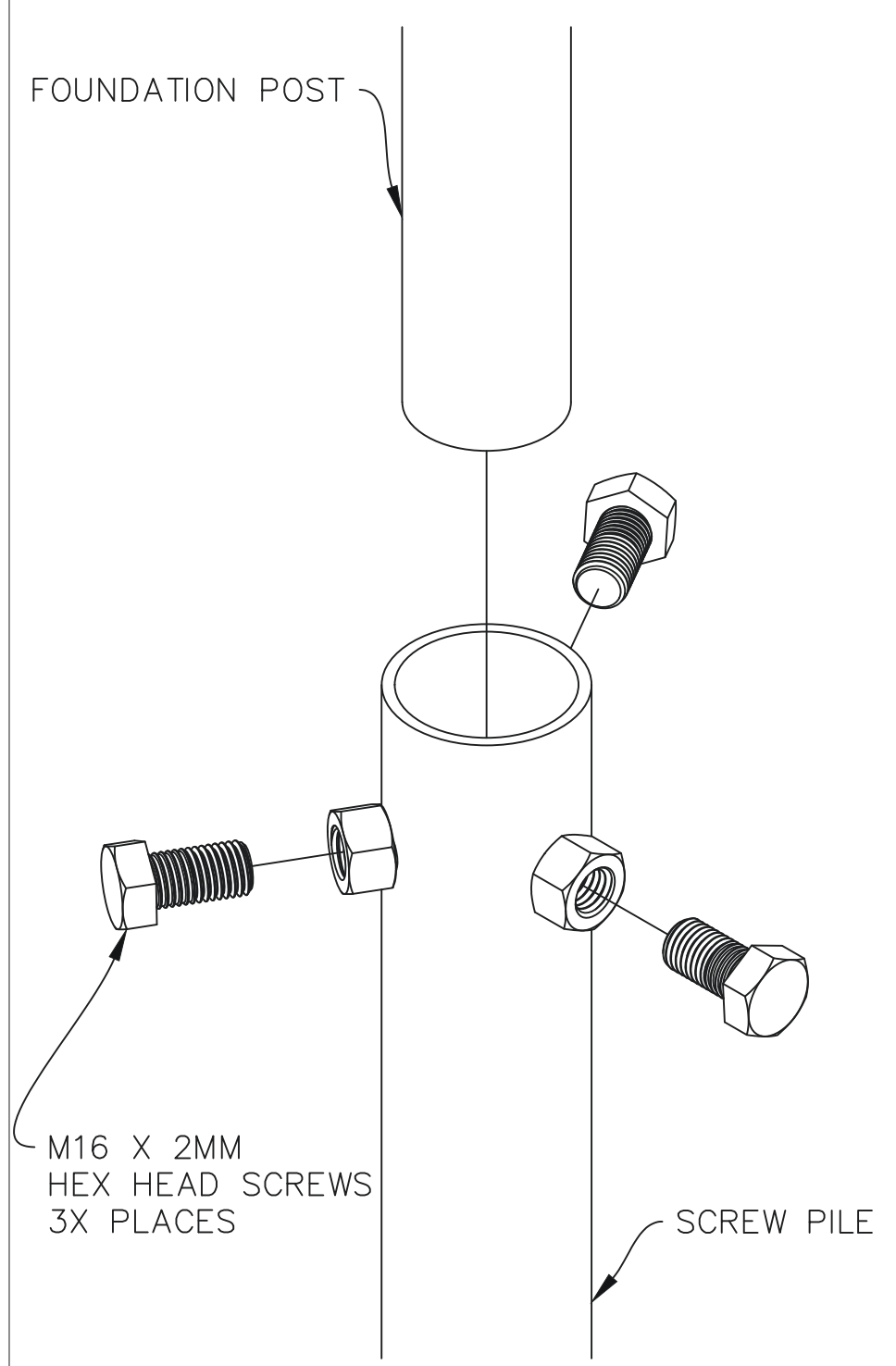
D1 DETAIL: SCREW PILE



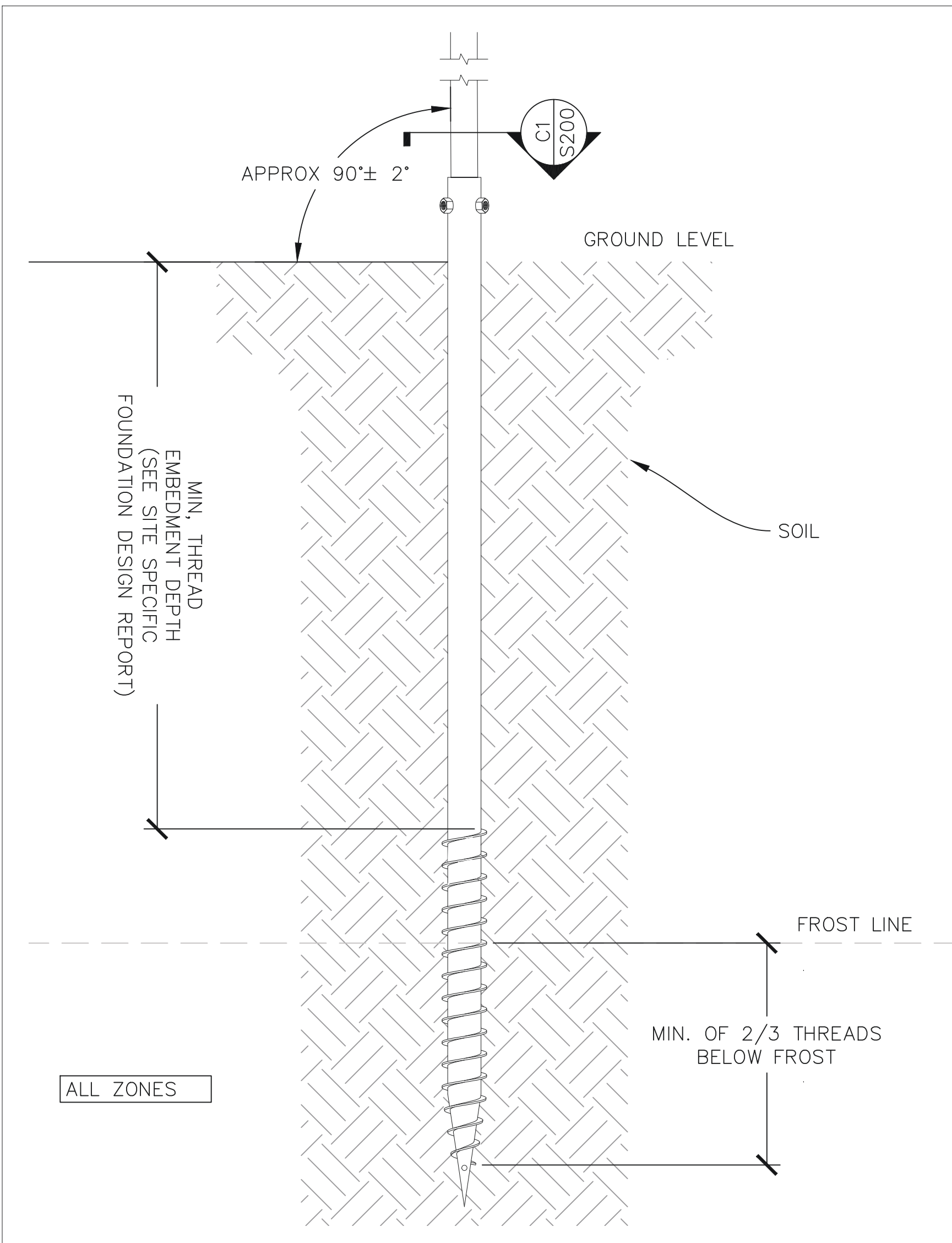
D2 SECTION: SCREW PILE



C1 SECTION: PILE ASSEMBLY

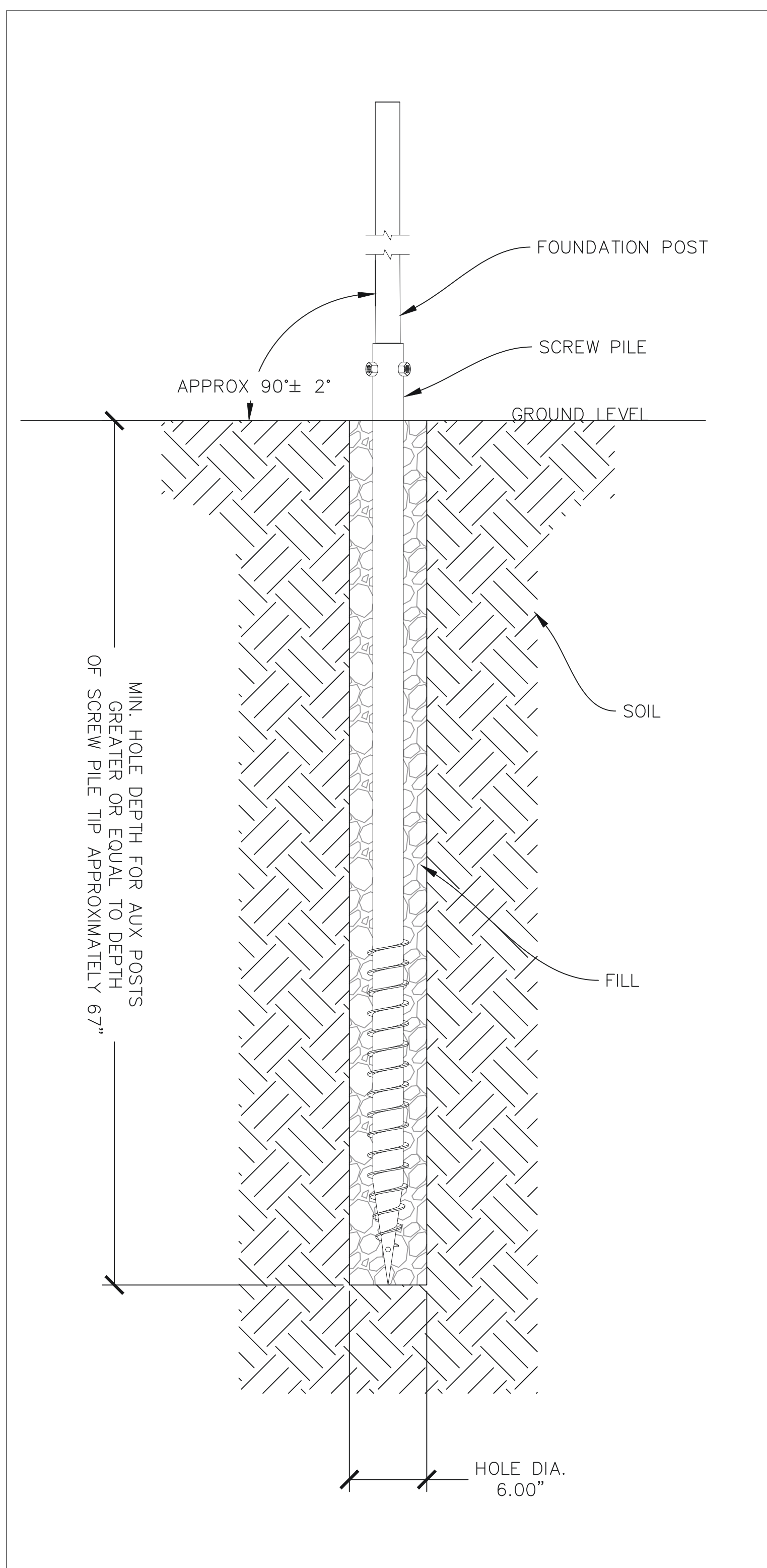


A1 CONNECTION: POST-TO-PILE



NOTES:  
1. LENGTH & THREADS MAY VARY, SEE SHEET NOTES

A2 VIEW: POST EMBEDMENT



A3 REFUSAL INSTALL OPTION 1: PREDRILL OVERSIZED HOLE

NOTES:

- FOUNDATION POST MATERIAL: 50 KSI MIN YIELD STRENGTH
  - FOUNDATION POST TO BE HOT DIPPED GALVANIZED TO ASTM A123 OR INLINE GALVANIZED TO ASTM A1057.
  - SCREW PILE TUBE MATERIAL: 30 KSI MIN YIELD STRENGTH STEEL.
  - SCREW PILE THREAD MATERIAL: 28 KSI MIN YIELD STRENGTH STEEL.
  - SCREW PILE TO BE HOT DIPPED GALVANIZED TO ASTM A123 OR INLINE GALVANIZED TO ASTM A1057.
  - ALL HARDWARE IS 300 SERIES STAINLESS STEEL, A574 ALLOY STEEL, OR MINIMUM 8.8 CLASS METRIC.
  - BOLTS MUST BE FULLY SET INTO WELDED NUTS.
  - BOLTS SHALL BE 30 MM LONG.
  - SCREW PILE SHALL PENETRATE THE SOIL TO A DEPTH PAST THE FROST LINE, SUCH LESS THAN 1/3 OF THE TOTAL LENGTH OF THREADS ARE ABOVE THE FROST LINE, OR TO THE DEPTH INDICATED AS MINIMUM PER THE STAMPED FOUNDATION DESIGN REPORT, WHICHEVER IS DEEPER.
  - FOUNDATION POST SHALL EXTEND ABOVE GROUND LEVEL AT MINIMUM OF INDICATED FRONT LIP CLEARANCE, PLUS THE ADDITIONAL LENGTH REQUIRED TO ACHIEVE THE INDICATED TILT ANGLE.
  - MINIMUM ENGAGEMENT BETWEEN SCREW PILE AND FOUNDATION POST SHALL BE 4".
  - INSTALLERS SHALL REFER TO STRUT AND POST SETUP SHEETS FOR LENGTH AND PLACEMENT DETAILS.
- FOUNDATION POST INSTALLATION
- ACCURATELY LOCATE AND INSTALL SCREW PILES BY SUCH METHODS AND EQUIPMENT SO AS NOT TO IMPAIR THE PILE STRENGTH OR DAMAGE POSTS OR ADJACENT CONSTRUCTION.
  - INSTALLATION CONTRACTOR RESPONSIBLE FOR ALL CONSTRUCTION EQUIPMENT, METHODS, AND SEQUENCES.
  - DISTURBED GALVANIZED SURFACES SHALL BE TOUCHED UP WITH AN APPROVED COLD GALVANIZING COMPOUND.
  - INSTALL SCREW PILES TO MINIMUM DEPTH AS INDICATED THIS SHEET OR AS REQUIRED PER THE STAMPED FOUNDATION DESIGN REPORT, WHICHEVER IS GREATER.

AUXILIARY FOUNDATION NOTES:

- EMBEDMENT DEPTH CONTINGENT UPON SITE SPECIFIC DATA, INCLUDING BUT NOT LIMITED TO: FROST DEPTH, SOIL PROPERTIES, AND LOCAL BUILDING CODE REQUIREMENTS.
  - AUGERED HOLE SHOULD EXTEND BELOW THE LOCAL FROST LINE, INTO THE STABLE SOIL ZONE.
  - HOLDING PROPERTIES OF THE SCREW PILE IN AGGREGATE DETERMINED BY TESTING CONDUCTED BY APA, PER ASTM D1143
  - STRUCTURAL PROPERTIES OF SCREW PILE TESTED ONLY. CORROSIVITY, AND OTHER GEOTECHNICAL PROPERTIES NOT TESTED.
- INSTALLATION PROCEDURE
- AUGER HOLE TO REQUIRED DEPTH. HOLE SHOULD BE APPROXIMATELY PLUMB AND A MINIMUM DIAMETER AS INDICATED IN DRAWING.
  - REMOVE THE SPOILS AS BEST AS POSSIBLE. THERE SHOULD BE NO LARGE CLUMPS OR ROCKS AT THE BOTTOM OF THE HOLE.
  - POUR IN AGGREGATE.
  - AGGREGATE SHOULD BE SIZED BETWEEN 1" - 2 1/2".
  - KNOWN ACCEPTABLE AGGREGATES (NAMING PER ASTM C33-03):
    - #2 (2 1/2" - 1 1/2")
    - #3 (2" - 1"),
    - A COMBINATION OF BOTH #2 & #3
    - EQUIVALENT SIZE OF EITHER #2 OR #3.
  - DEVIATIONS IN AGGREGATE SIZE, FROM THE ABOVE SPECIFICATIONS, MUST BE APPROVED BY APA SOLAR ENGINEERING BEFORE USING/PURCHASING.
  - DRIVE SCREW PILE AS NORMALLY INTO HOLE. ENSURE IT IS PLUMB. ENSURE THE NORTH-SOUTH DIMENSIONS AND EAST-WEST DIMENSIONS ARE CORRECT. ALSO ENSURE BOLT HOLE IN THE POST IS FACING THE CORRECT DIRECTION.
- IF NEEDED, RETAMP THE AGGREGATE AT SOIL LEVEL AROUND THE SCREW PILE.

6. QUALITY CONTROL NOTES

- POST HEIGHTS SHOULD BE MEASURED FROM THE GROUND LEVEL, NOT THE TOP OF THE AGGREGATE. IF AGGREGATE IS BELOW GROUND LEVEL, ADDITIONAL GRAVEL SHOULD BE ADDED AND TAMPED TO BRING IT UP TO AT LEAST GROUND LEVEL.
- FOUNDATION POSTS SHOULD NOT BE VERIFIED BY PULLING LATERALLY AT THE TOP OF THE POST (FIGURE 3). THIS CREATES A LARGE AND ARTIFICIAL MOMENT IN THE FOUNDATION. FOUNDATION POSTS SHOULD ALSO NOT BE ROCKED BACK AND FORTH UNTIL IT "FAILS"; THE FOUNDATION POSTS ARE INTENDED TO WORK AS A SYSTEM WITH ALL PARTS INTACT (ADJOINING POSTS, SMALL AND LARGE ZEES, HARD AND CABLE BRACES, AND ALL ADDITIONAL PARTS AND HARDWARE INSTALLED AND TIGHTENED) AND DO NOT REACH FULL CAPACITY UNTIL THAT POINT.

CUSTOMER

RACKING PROVIDER

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20-345 COUNTY ROAD X  
RIDGEVILLE CORNERS, OHIO 43055  
(P) 419.267.5280  
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WWW.APASOLAR.COM

RACKING TYPE

**TITAN**  
D10

ENGINEER OF RECORD

**the jdi group**  
architects & engineers

360 W. DUSSEL DR.  
MAUMEE, OH 43537  
(P) 419.725.7161 (F) 419.725.7160

PROFESSIONAL SEAL/STAMP

*Joseph J. DiStasio*  
Professional Engineer  
No. 80848  
Professional Engineering  
1/1/25

DOCUMENT NAME:

STRUCTURAL PRINT PACKAGE

SITE STREET ADDRESS:  
122 MILL RD.

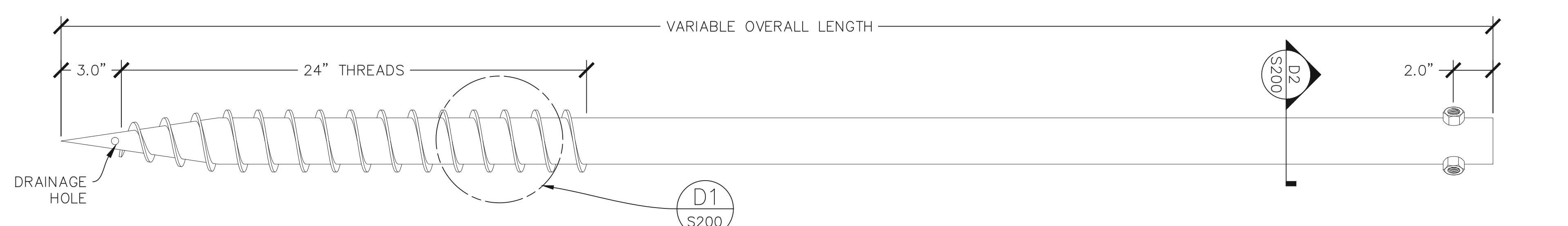
SITE CITY, STATE, ZIP:  
NORTH HAVEN, CT 06473

SHEET REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	03/14/2023

**APPROVED**

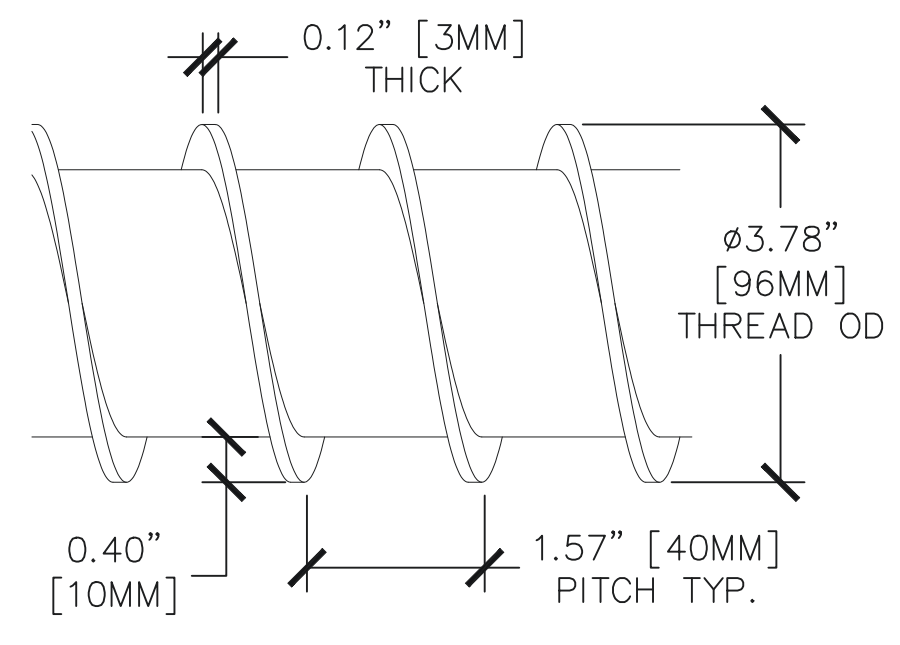
DRAWN	REVIEWED	APPROVED	SIZE
LB	TM	JDI	D
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PROJECT NUMBER 220695			
DRAWING NUMBER S.200			REV. A

SCALE IS REDUCED WHEN SHEET SIZE IS 11" x 17"

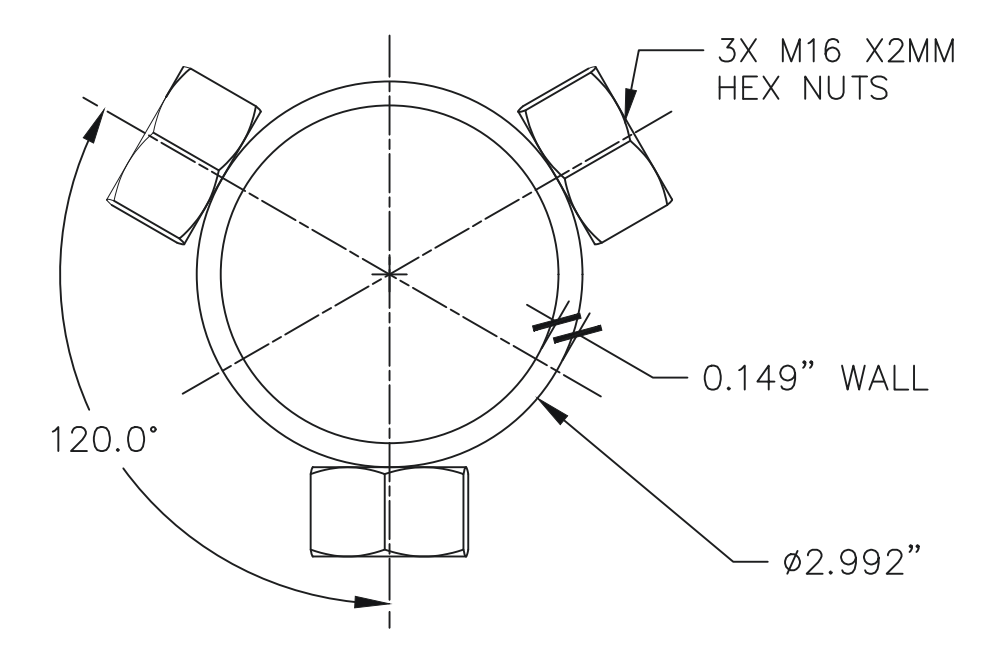


NOTES:  
1. VIEW NOT REPRESENTATIVE OF SCREW TIP OR REQUIRED OVERALL OR THREAD LENGTH.

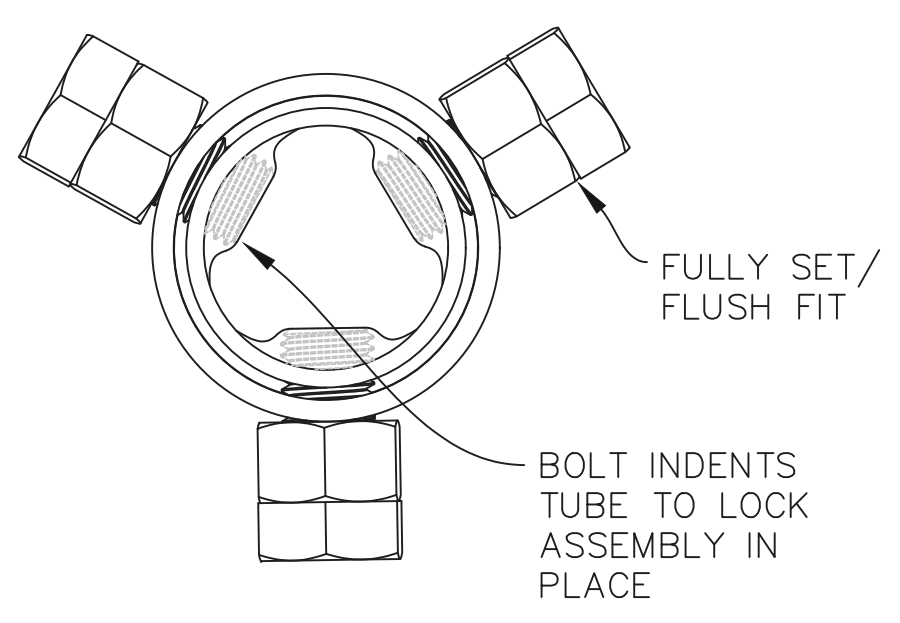
E1 PART: SCREW PILE



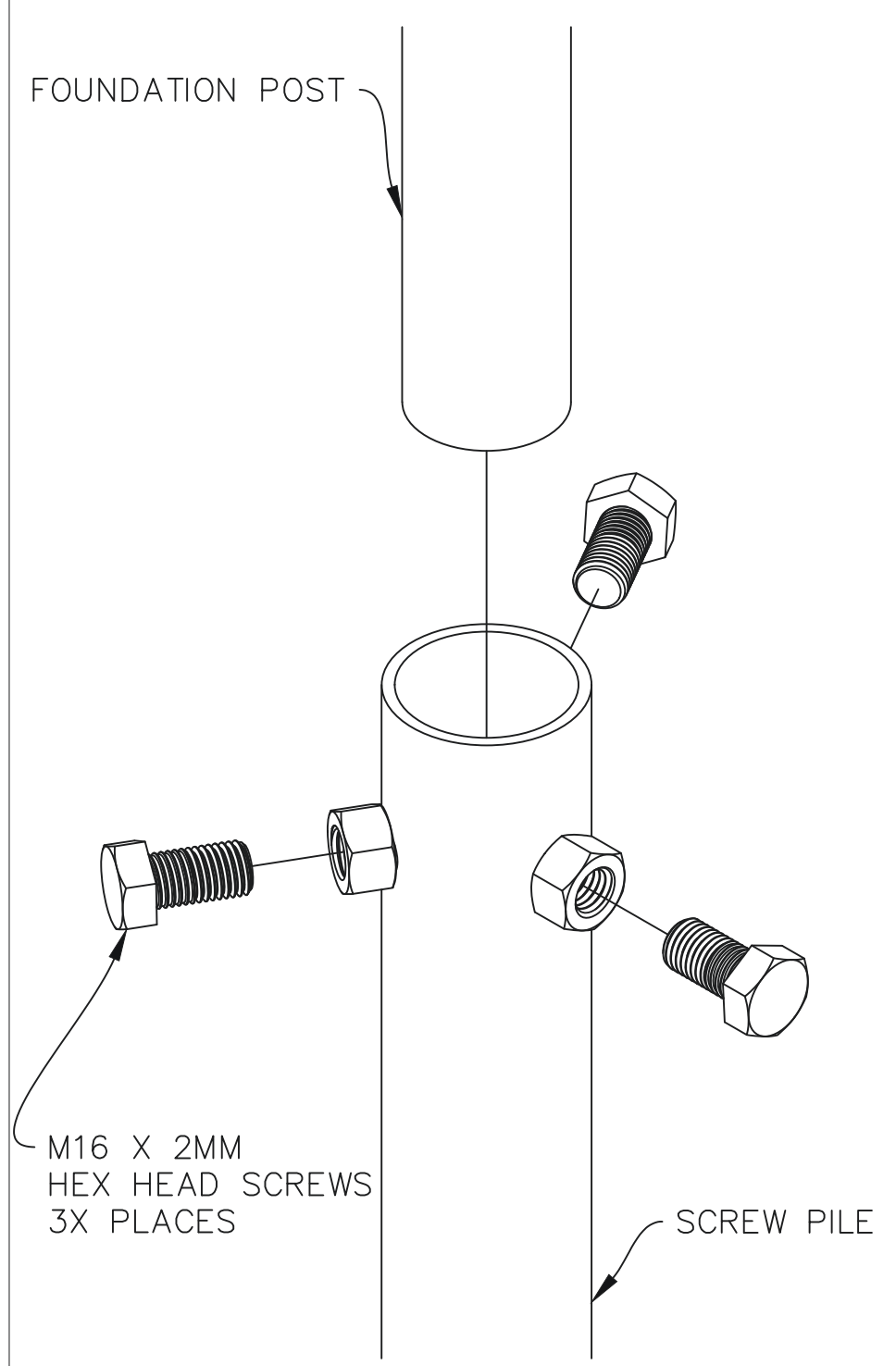
D1 DETAIL: SCREW PILE



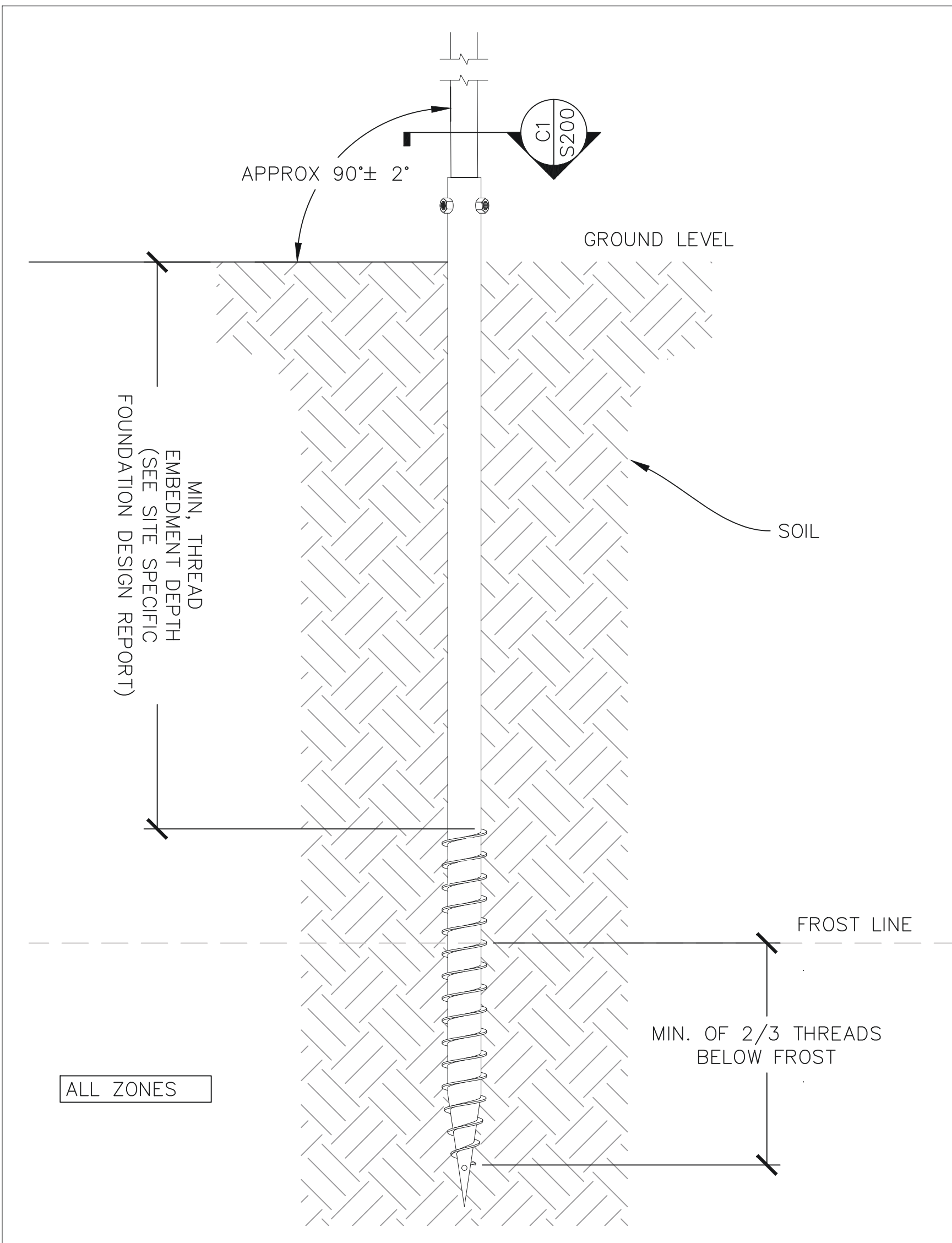
D2 SECTION: SCREW PILE



C1 SECTION: PILE ASSEMBLY

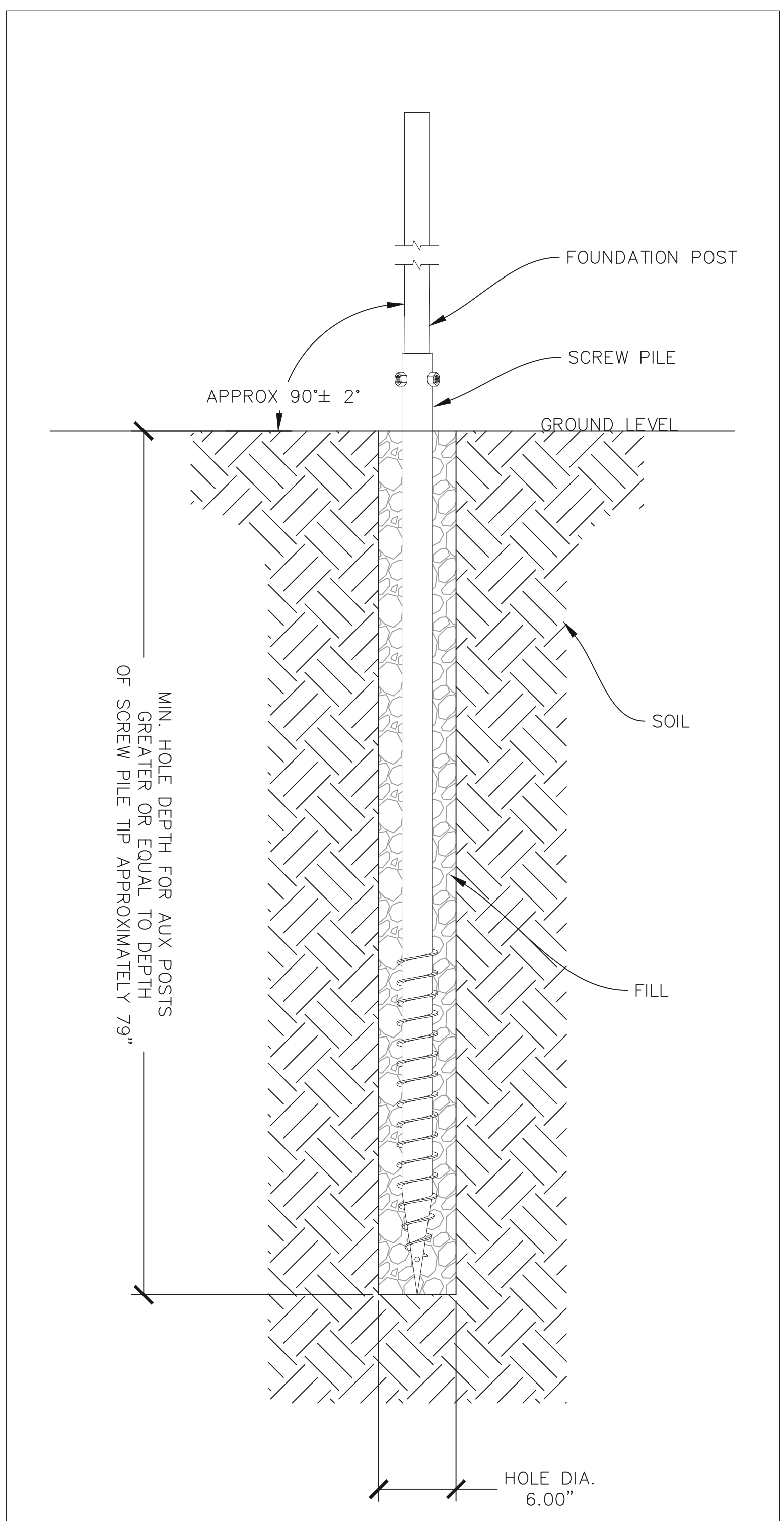


A1 CONNECTION: POST-TO-PILE



NOTES:  
1. LENGTH & THREADS MAY VARY, SEE SHEET NOTES

A2 VIEW: POST EMBEDMENT



A3 REFUSAL INSTALL OPTION 1: PREDRILL OVERSIZED HOLE

NOTES:

- FOUNDATION POST MATERIAL: 50 KSI MIN YIELD STRENGTH
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  - AUGERED HOLE SHOULD EXTEND BELOW THE LOCAL FROST LINE, INTO THE STABLE SOIL ZONE.
  - HOLDING PROPERTIES OF THE SCREW PILE IN AGGREGATE DETERMINED BY TESTING CONDUCTED BY APA, PER ASTM D1143
  - STRUCTURAL PROPERTIES OF SCREW PILE TESTED ONLY. CORROSIVITY, AND OTHER GEOTECHNICAL PROPERTIES NOT TESTED.
- INSTALLATION PROCEDURE
- AUGER HOLE TO REQUIRED DEPTH. HOLE SHOULD BE APPROXIMATELY PLUMB AND A MINIMUM DIAMETER AS INDICATED IN DRAWING.
  - REMOVE THE SPOILS AS BEST AS POSSIBLE. THERE SHOULD BE NO LARGE CLUMPS OR ROCKS AT THE BOTTOM OF THE HOLE.
  - POUR IN AGGREGATE.
  - AGGREGATE SHOULD BE SIZED BETWEEN 1" - 2 1/2".
  - KNOWN ACCEPTABLE AGGREGATES (NAMING PER ASTM C33-03):
    - #2 (2 1/2" - 1 1/2")
    - #3 (2" - 1"),
    - A COMBINATION OF BOTH #2 & #3
    - EQUIVALENT SIZE OF EITHER #2 OR #3.
  - DEVIATIONS IN AGGREGATE SIZE, FROM THE ABOVE SPECIFICATIONS, MUST BE APPROVED BY APA SOLAR ENGINEERING BEFORE USING/PURCHASING.
  - DRIVE SCREW PILE AS NORMALLY INTO HOLE. ENSURE IT IS PLUMB. ENSURE THE NORTH-SOUTH DIMENSIONS AND EAST-WEST DIMENSIONS ARE CORRECT. ALSO ENSURE BOLT HOLE IN THE POST IS FACING THE CORRECT DIRECTION.
- IF NEEDED, RETAMP THE AGGREGATE AT SOIL LEVEL AROUND THE SCREW PILE.

6. QUALITY CONTROL NOTES

- POST HEIGHTS SHOULD BE MEASURED FROM THE GROUND LEVEL, NOT THE TOP OF THE AGGREGATE. IF AGGREGATE IS BELOW GROUND LEVEL, ADDITIONAL GRAVEL SHOULD BE ADDED AND TAMPED TO BRING IT UP TO AT LEAST GROUND LEVEL.
- FOUNDATION POSTS SHOULD NOT BE VERIFIED BY PULLING LATERALLY AT THE TOP OF THE POST (FIGURE 3). THIS CREATES A LARGE AND ARTIFICIAL MOMENT IN THE FOUNDATION. FOUNDATION POSTS SHOULD ALSO NOT BE ROCKED BACK AND FORTH UNTIL IT "FAILS"; THE FOUNDATION POSTS ARE INTENDED TO WORK AS A SYSTEM WITH ALL PARTS INTACT (ADJOINING POSTS, SMALL AND LARGE ZEES, HARD AND CABLE BRACES, AND ALL ADDITIONAL PARTS AND HARDWARE INSTALLED AND TIGHTENED) AND DO NOT REACH FULL CAPACITY UNTIL THAT POINT.

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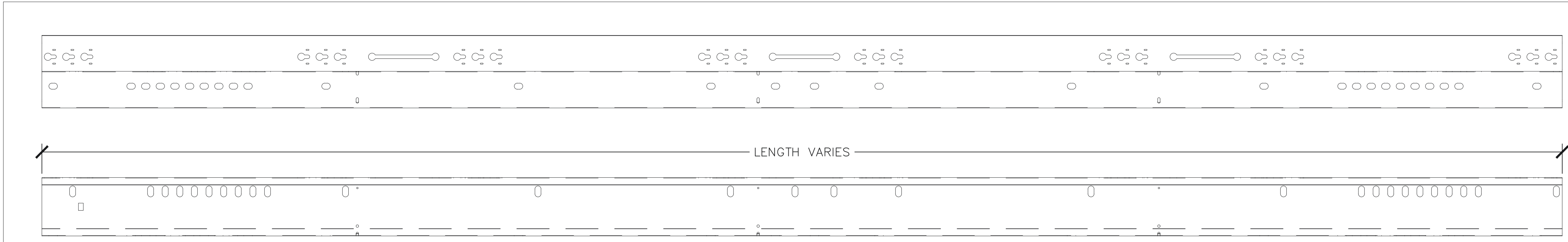
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PROJECT NUMBER: 220695

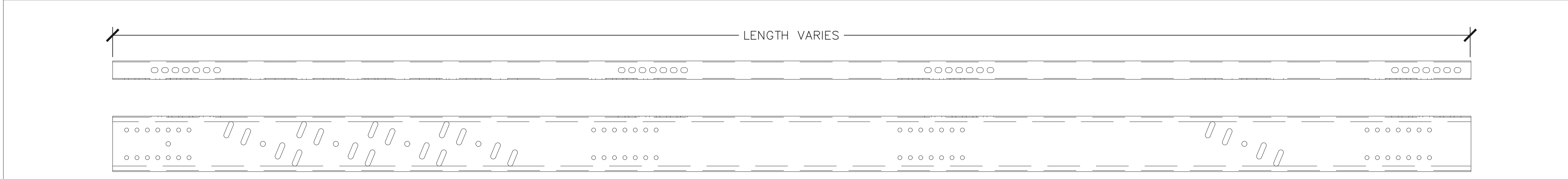
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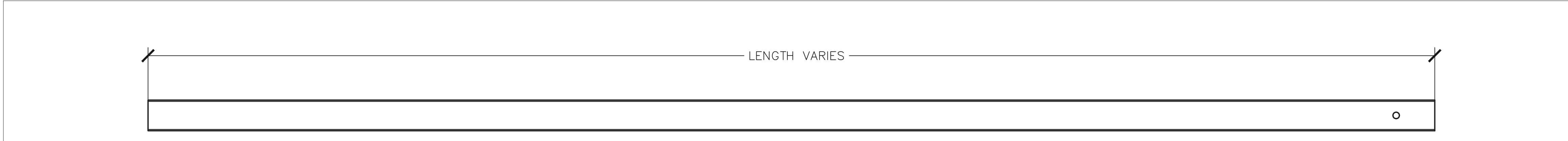




E1 SIDE/TOP: ZEE PURLIN

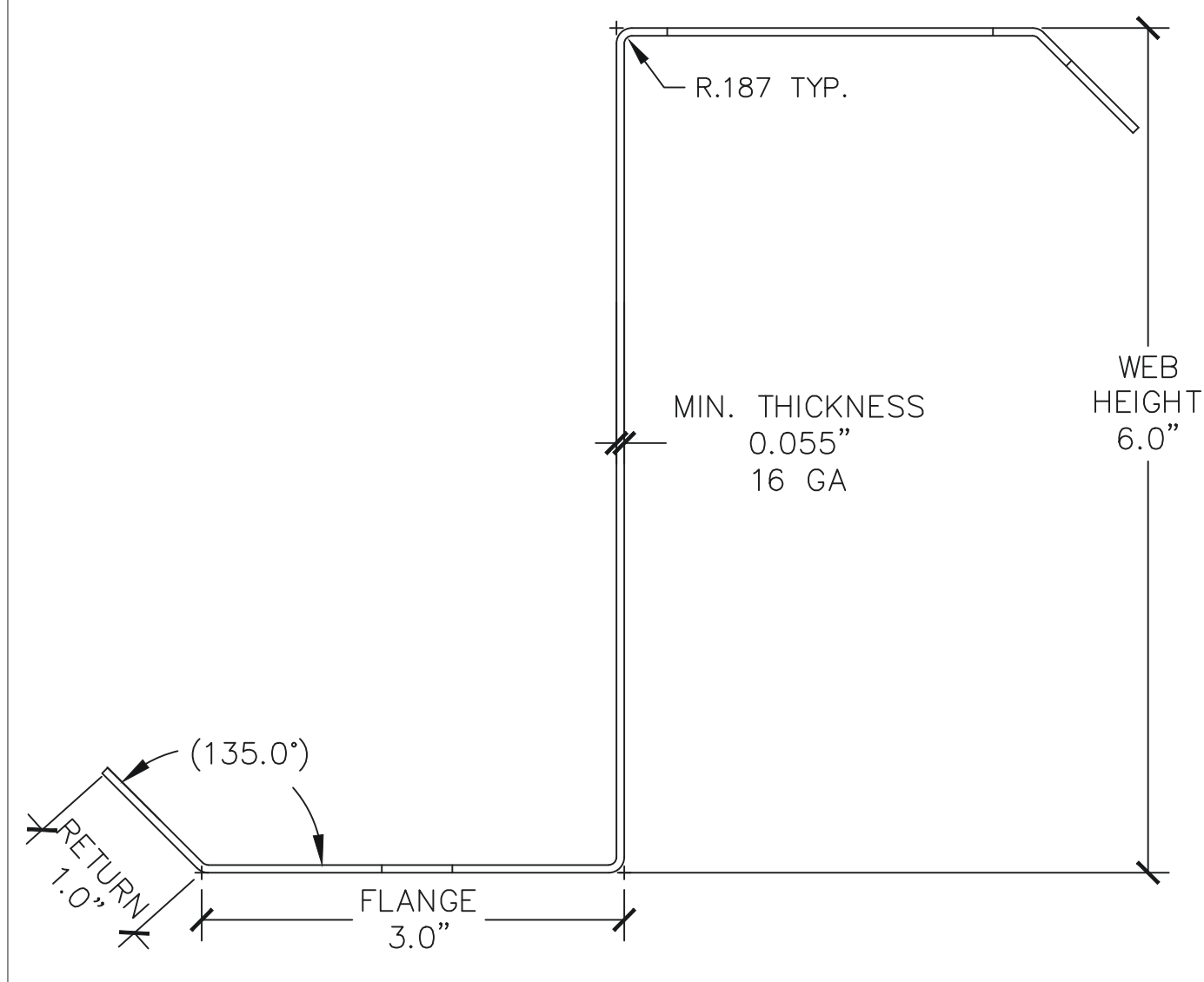


D1 SIDE/TOP: NS CHORD

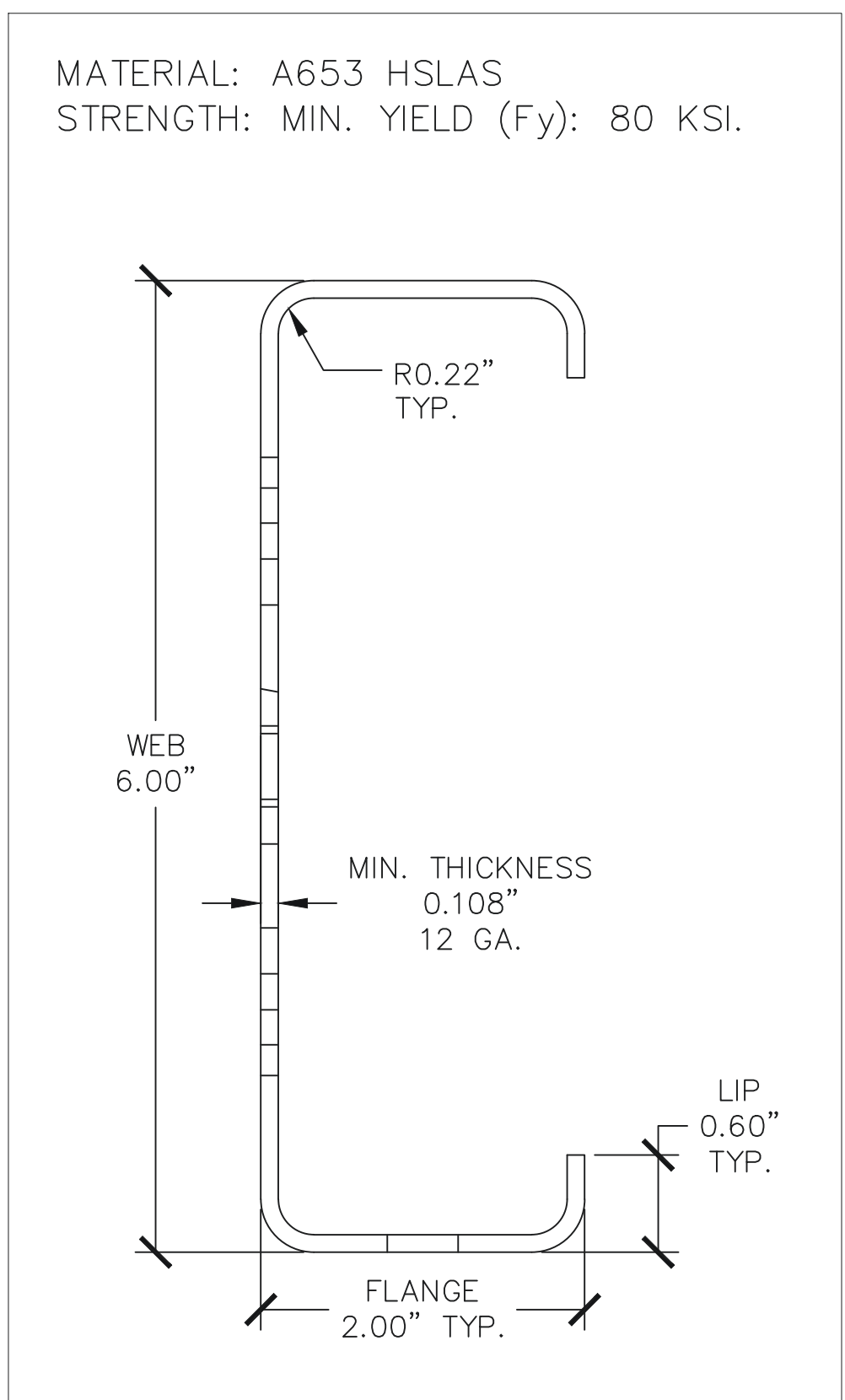


C1 SIDE: FOUNDATION POST

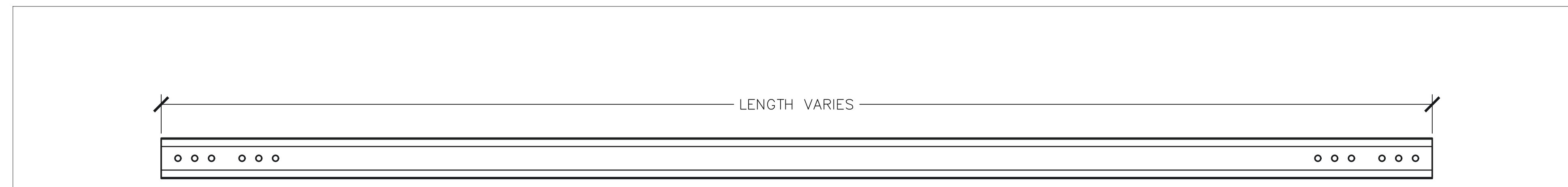
MATERIAL: A653 STR. STL.  
STRENGTH: MIN. YIELD (Fy): 80 KSI.



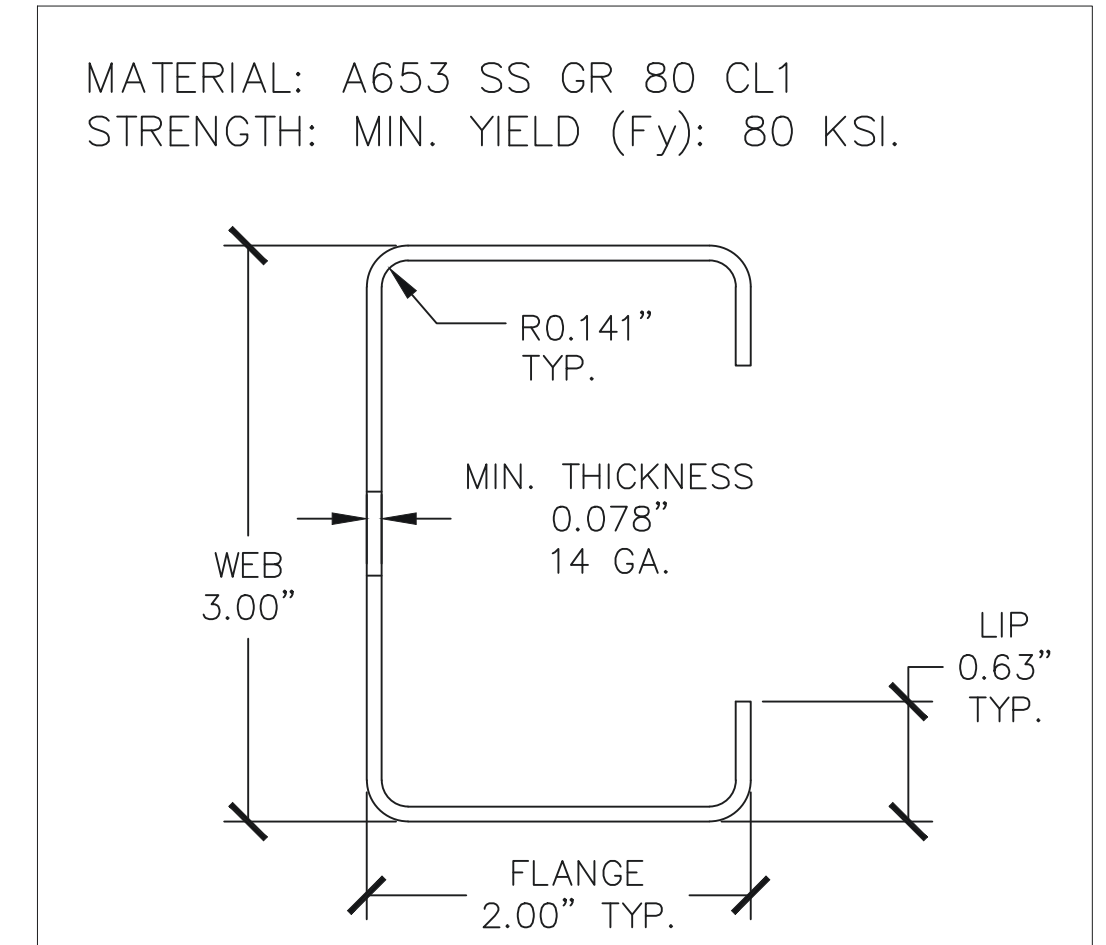
D5 PART: ZEE PURLIN



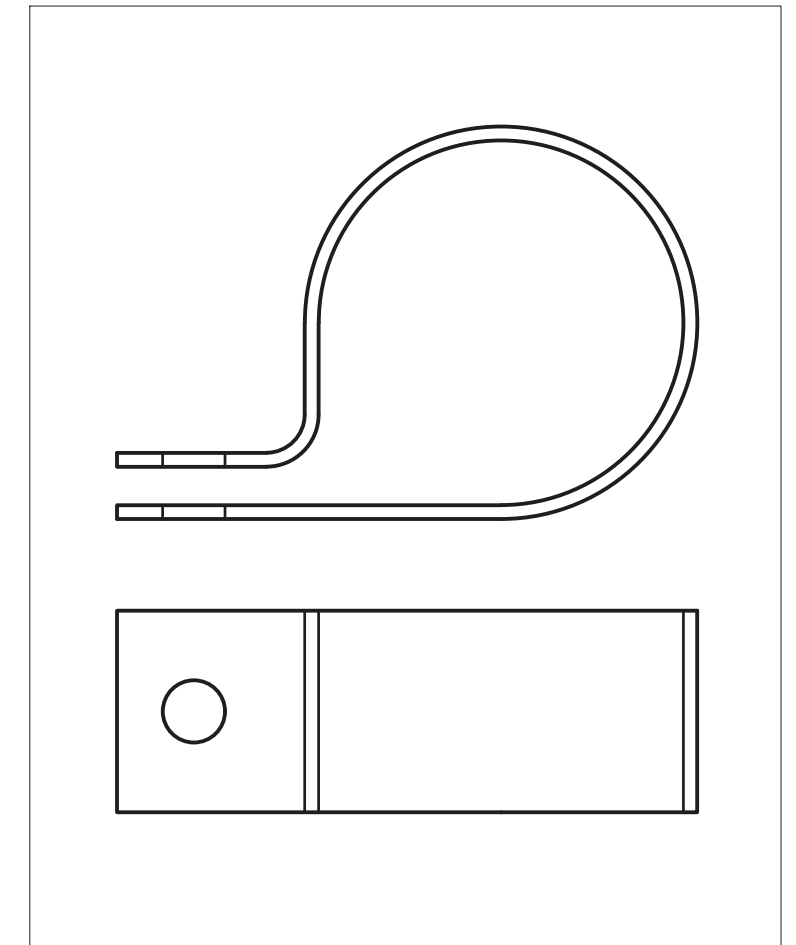
A1 PROFILE: NS CHORD



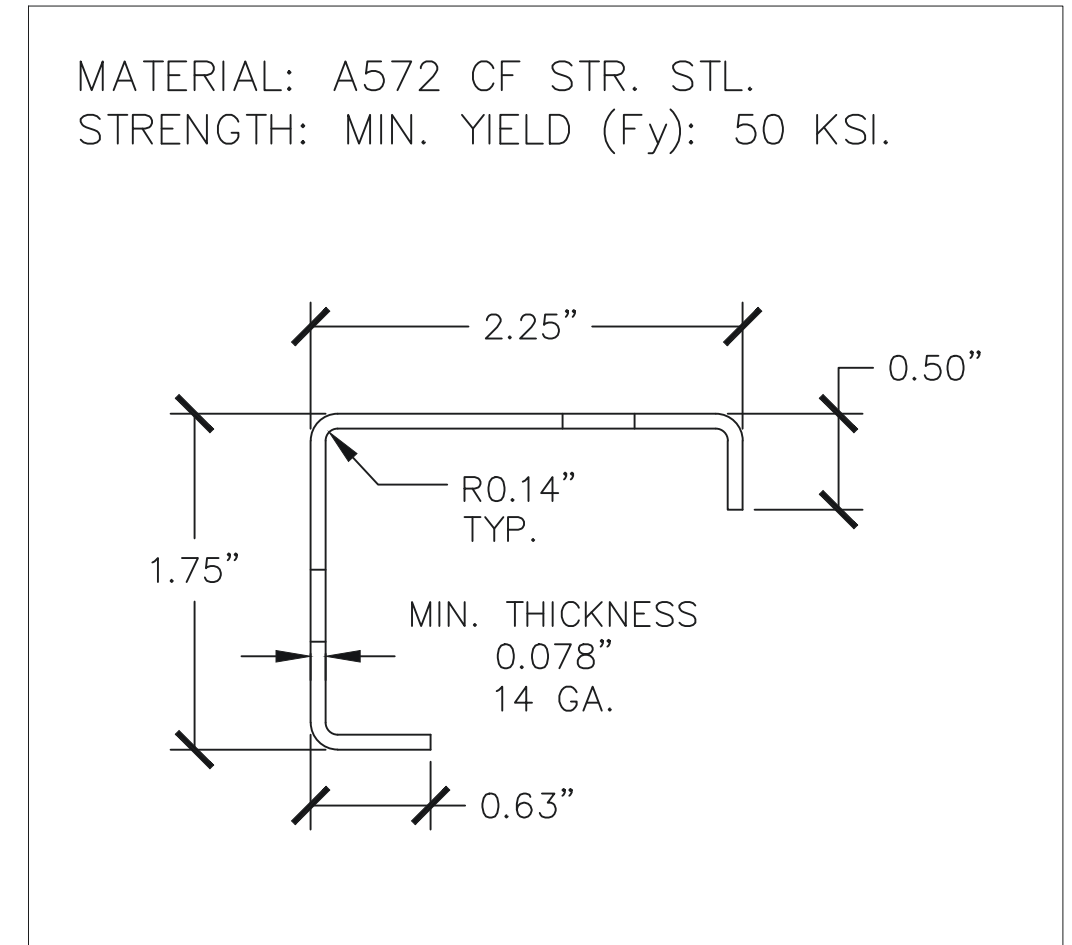
B2 SIDE: KNEE BRACE



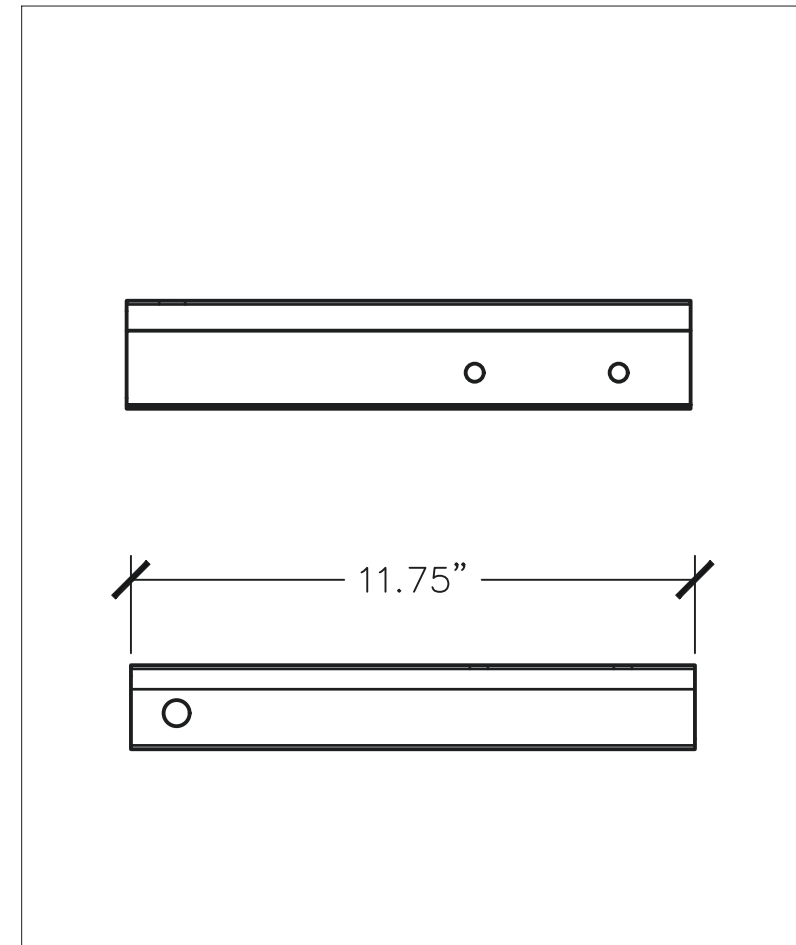
A2 PROFILE: KNEE BRACE



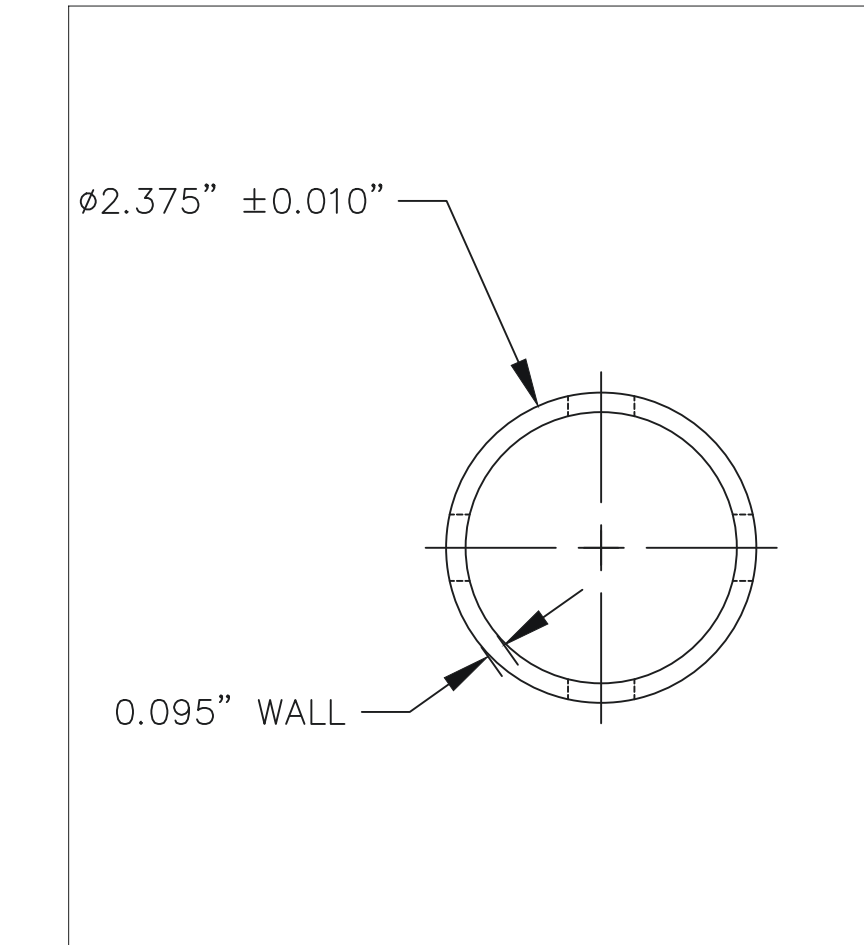
A3 SIDE: BRACE CLAMP



A4 PROFILE: ROLL BAR



A5 SIDE/TOP: ROLL BAR



A6 PROFILE: FOUNDATION POST

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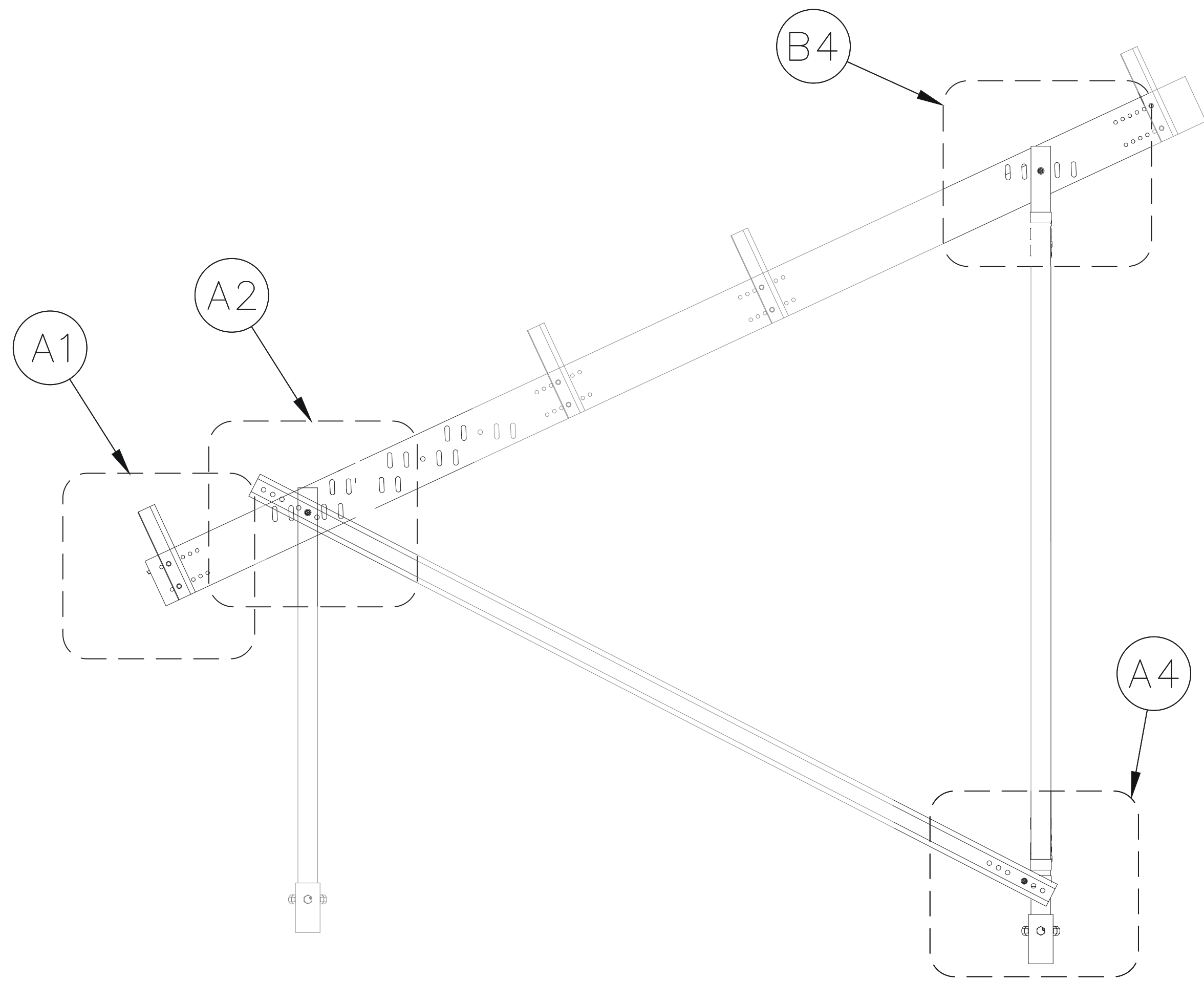
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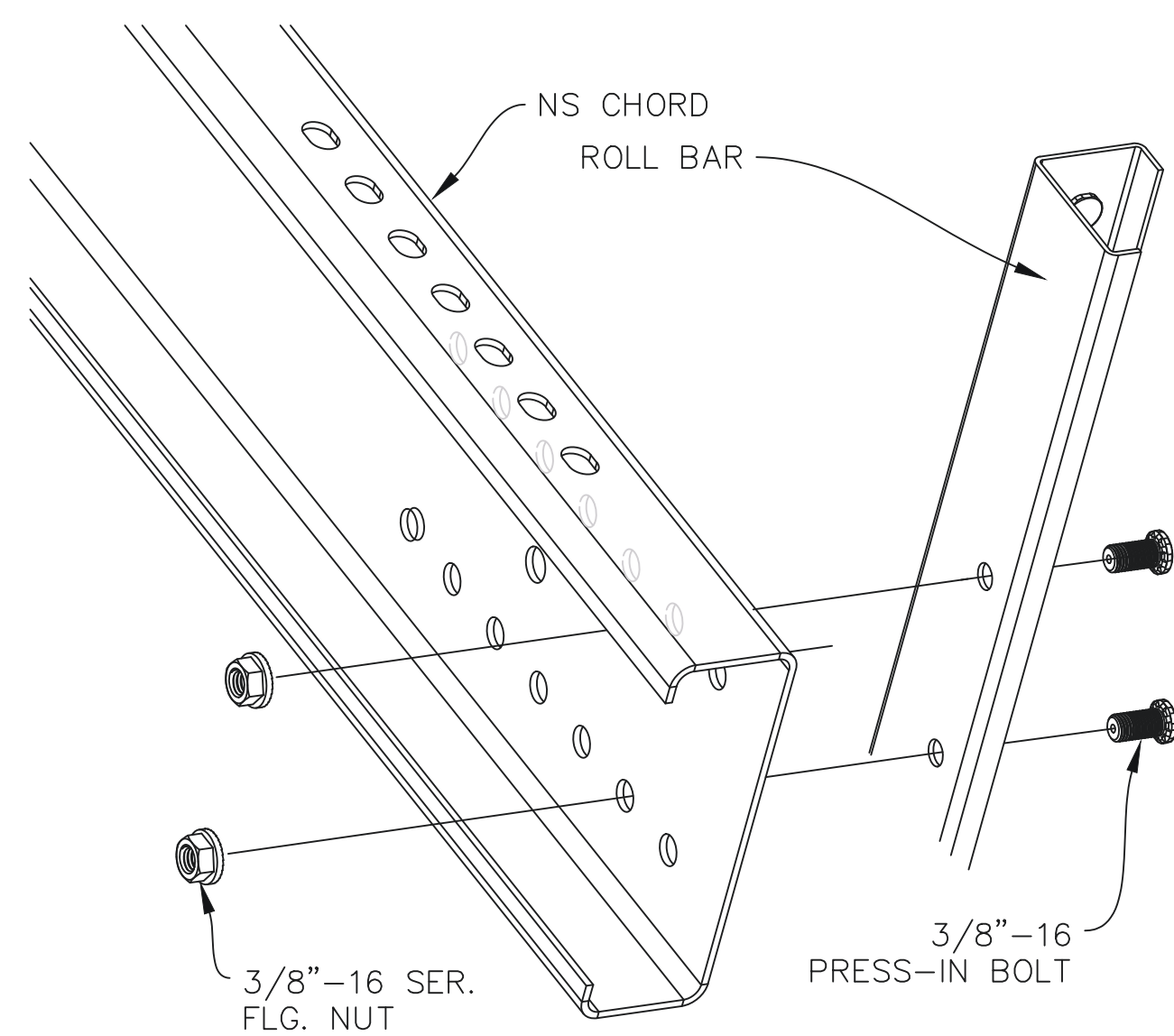
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SHEET NAME			
STRUCTURAL COMPONENTS			
PROJECT NUMBER			
220695			
DRAWING NUMBER			
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			A

IMAGE FOR REFERENCE ONLY



**B1 FOUNDATION SET CONNECTIONS OVERVIEW**

IMAGE FOR REFERENCE ONLY



ATTACHED TO OUTER HOLE SET FOR REFERENCE ONLY. SEE NOTES.

**A1 CONNECTION: ROLL BAR-TO-NS CHORD**

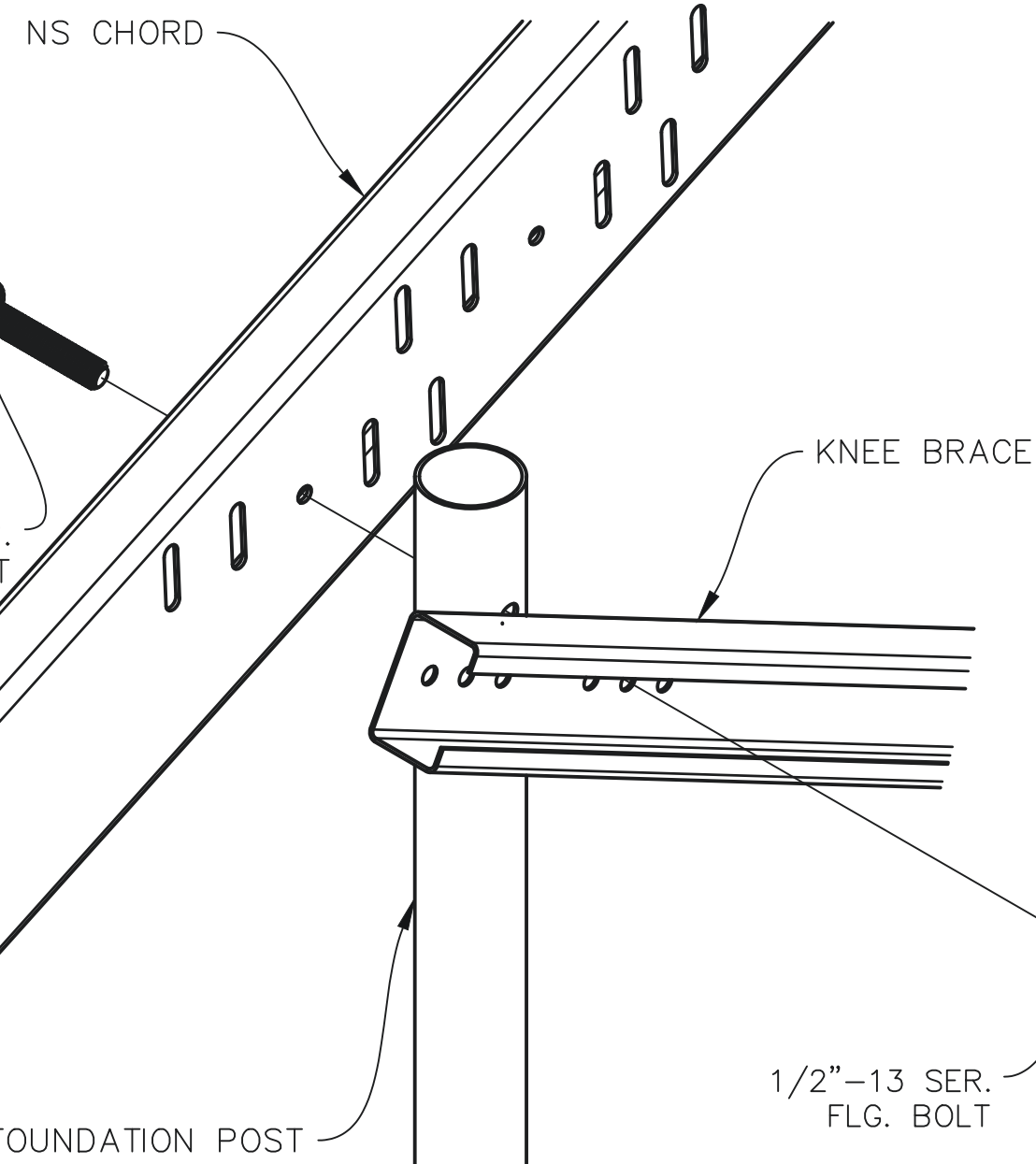
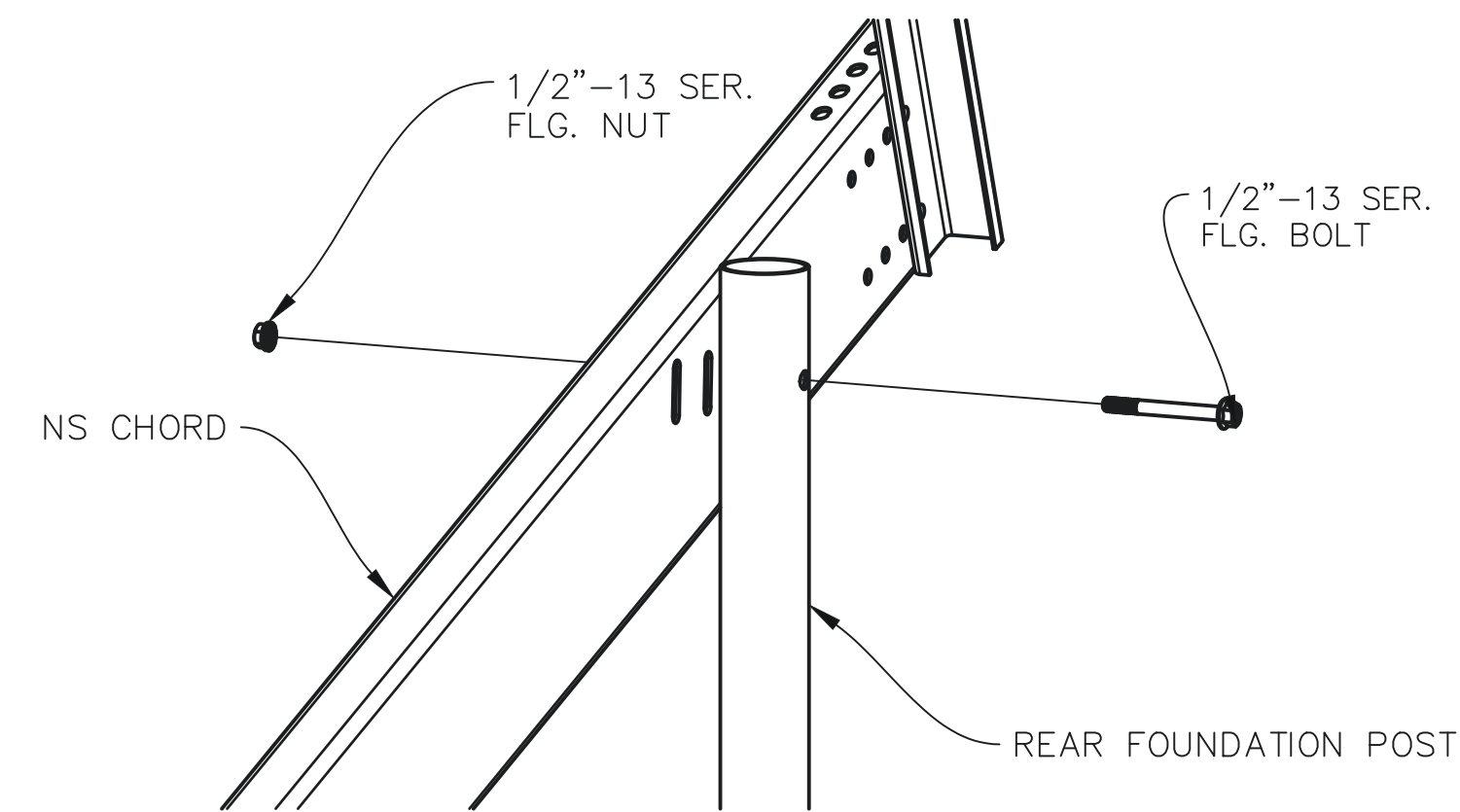


IMAGE FOR REFERENCE ONLY

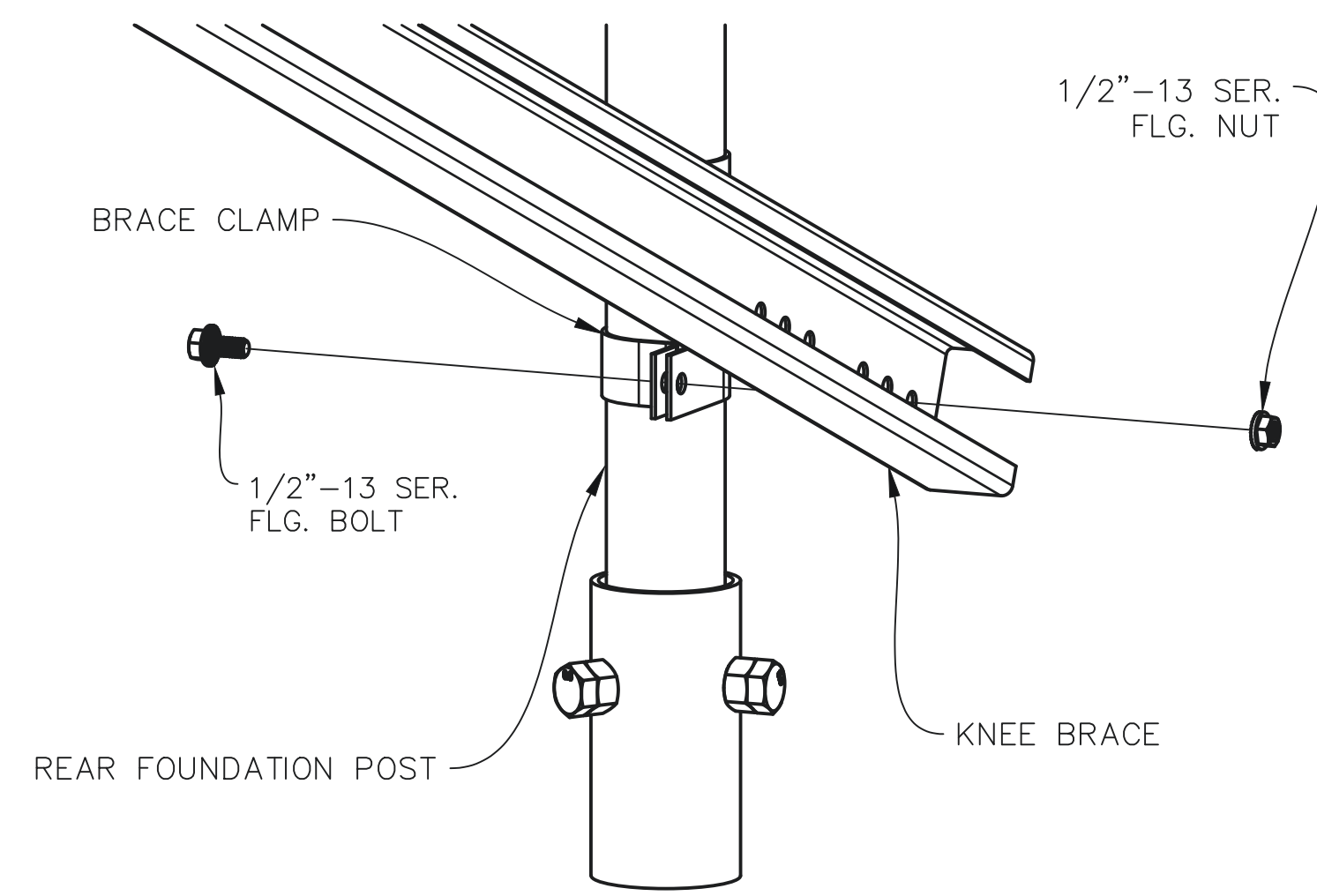
**A2 CONNECTION: KNEE BRACE-TO-FRONT POST**

IMAGE FOR REFERENCE ONLY



**B4 CONNECTION: REAR POST-TO-NS CHORD**

IMAGE FOR REFERENCE ONLY



**A4 KNEE BRACE-TO-REAR POST**

**NOTES:**

- HARDWARE TORQUE VALUES:**  
 3/8"-16 STAINLESS STEEL  
 MIN.: 17.5 FT-LBS  
 NOM.: 19.6 FT-LBS  
 MAX.: 50.0 FT-LBS  
  
 1/2"-13 STAINLESS STEEL  
 MIN: 25 FT-LBS
- DEPICTED HARDWARE AND PART PLACEMENT NOT INDICATIVE OF PREFERRED OR REQUIRED POSITIONS.
- HOLE/SLOT PATTERNS IN PARTS ALLOW FOR DEVIATION FROM NOMINAL DIMENSIONS, MULTIPLE PART POSITIONS, AND MULTIPLE TILT ANGLES.
- SEE INSTALLATION MANUAL FOR SETUP INSTRUCTIONS.
- SERRATED FLANGED BOLTS MAY BE REPLACED WITH EQUIVALENT PRESS-IN BOLTS. SEE NOTE 10 FOR MORE OPTIONS.
- PRESS-IN BOLTS, WHERE PRESENT, TO BE INSTALLED TO MANUFACTURERS RECOMMENDED VALUES.
- OTHER SPECIFIC CONNECTIONS ELSEWHERE IN PRINT SET.
- ROLL BAR MUST CONNECT TO THE CORRECT HOLES IN CEE CHANNEL (INNER, OR OUTER TYPICALLY), AS DETERMINED BY PV MODULE MANUFACTURERS ALLOWABLE CLAMPING ZONE.
- USE CORRECT NOMINAL HOLES IN CEE TO CONNECT TO FOUNDATION POST, AS INDICATED. ADJACENT HOLES AND SLOTS FOR FIELD ADJUSTMENTS.
- SERRATED HARDWARE MAY BE REPLACED WITH EQUIVALENT HARDWARE WITH WASHERS IF NECESSARY.
- IN ALL DETAILS, THE PRESENCE OF TWO SETS OF HARDWARE INDICATES THE REQUIREMENT OF TWO SETS OF HARDWARE.
- STAINLESS STEEL HARDWARE MAY BE REPLACED WITH GALVANIZED STEEL HARDWARE OR CORROSION AND STRENGTH COMPARABLE HARDWARE MATERIALS AND FINISHES.
- UNLESS NOTED OTHERWISE, ALL HARDWARE MAY BE INSTALLED IN EITHER DIRECTION (NUT/BOLT MAY BE ON EITHER SIDE OF CONNECTION).
- WHEN NECESSARY, ADDITIONAL HOLES MAY BE DRILLED TO COMPLETE CONNECTION. ENGINEERING SHALL BE CONTRACTED PRIOR TO FIELD MODIFICATIONS OF PARTS.

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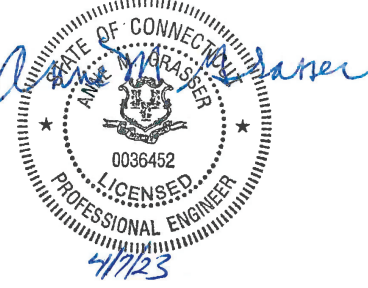


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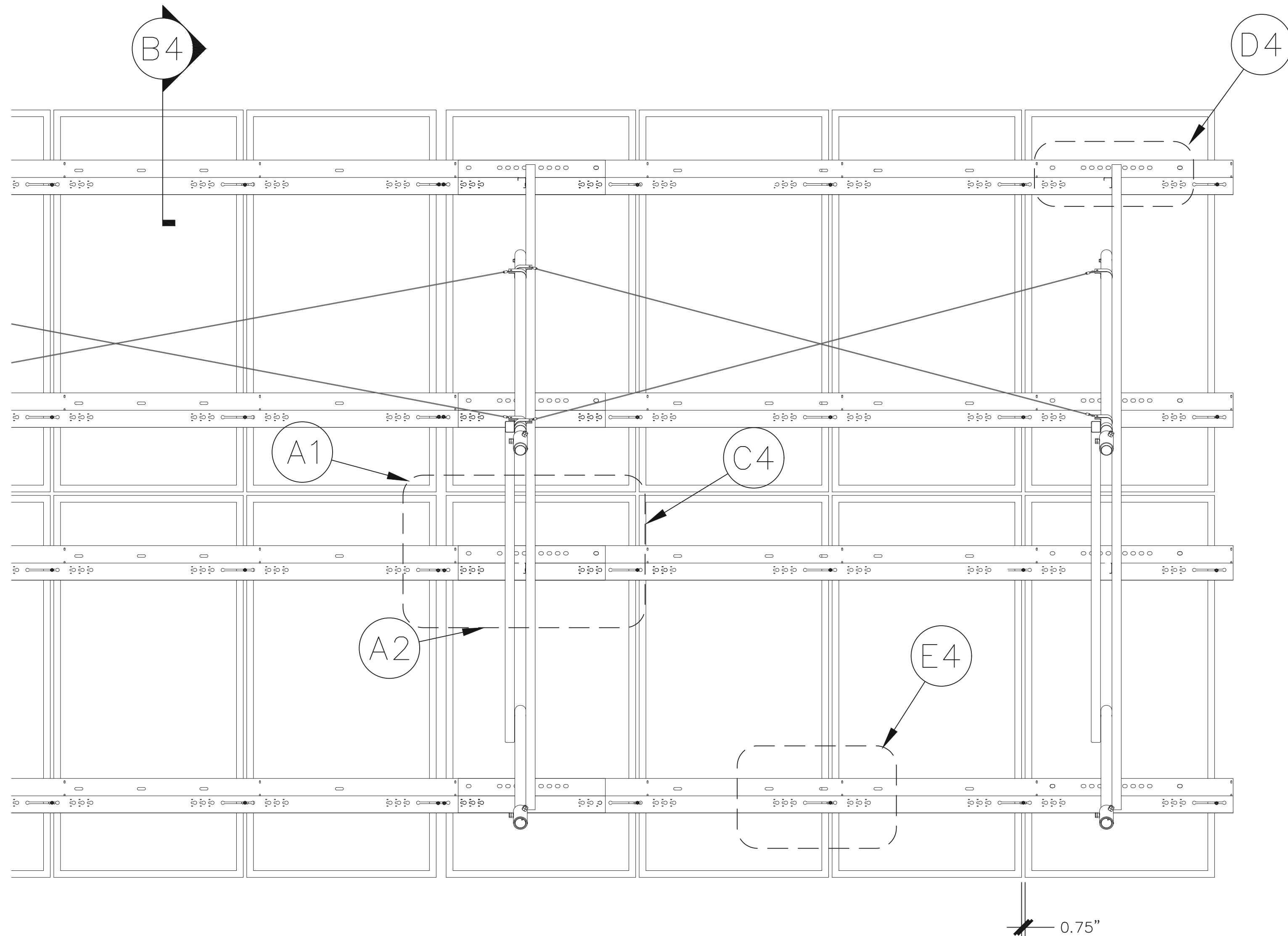
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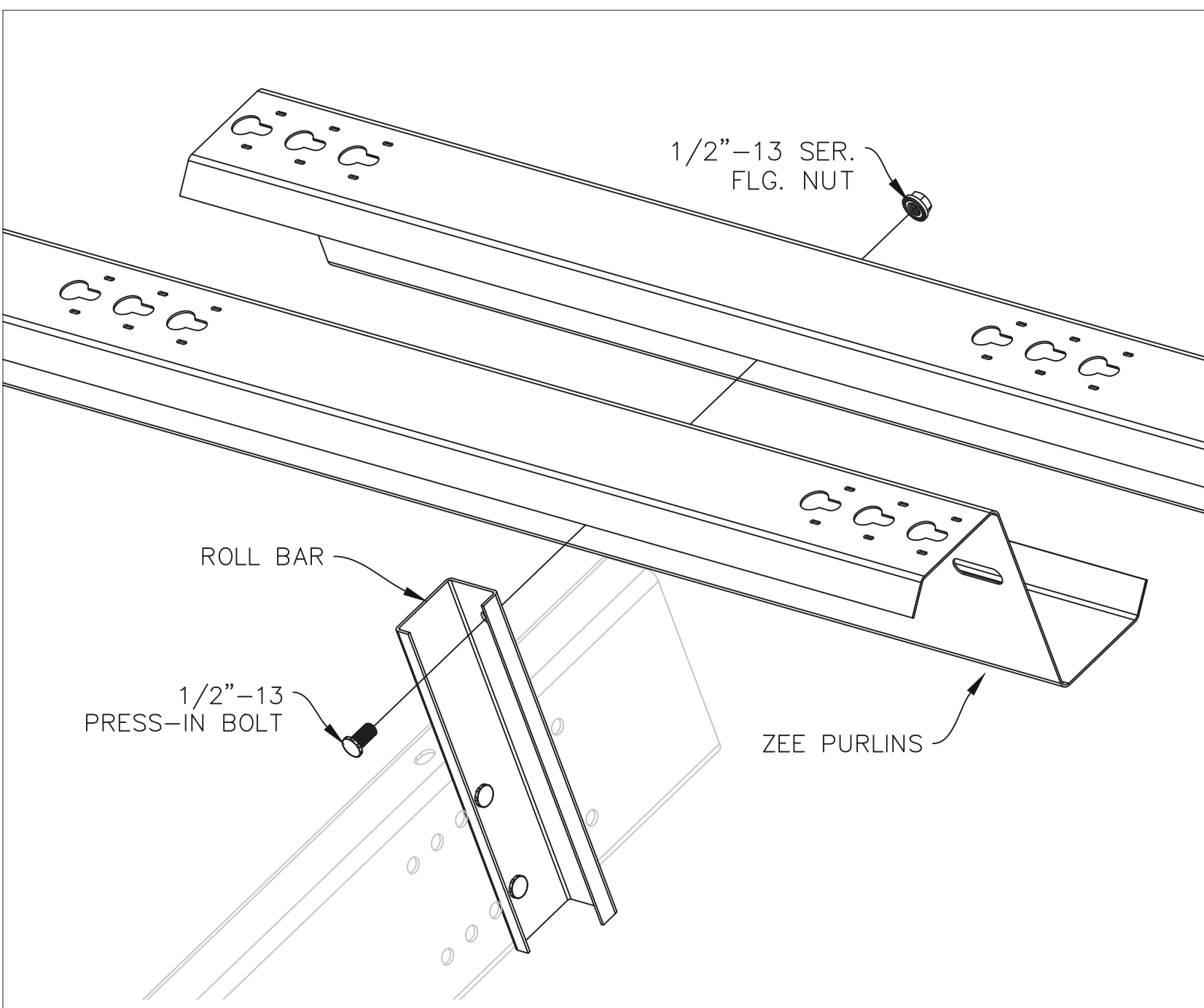
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SHEET NAME <b>CONNECTIONS</b>			
PROJECT NUMBER <b>220695</b>			
DRAWING NUMBER <b>S.400</b>		REV. <b>A</b>	

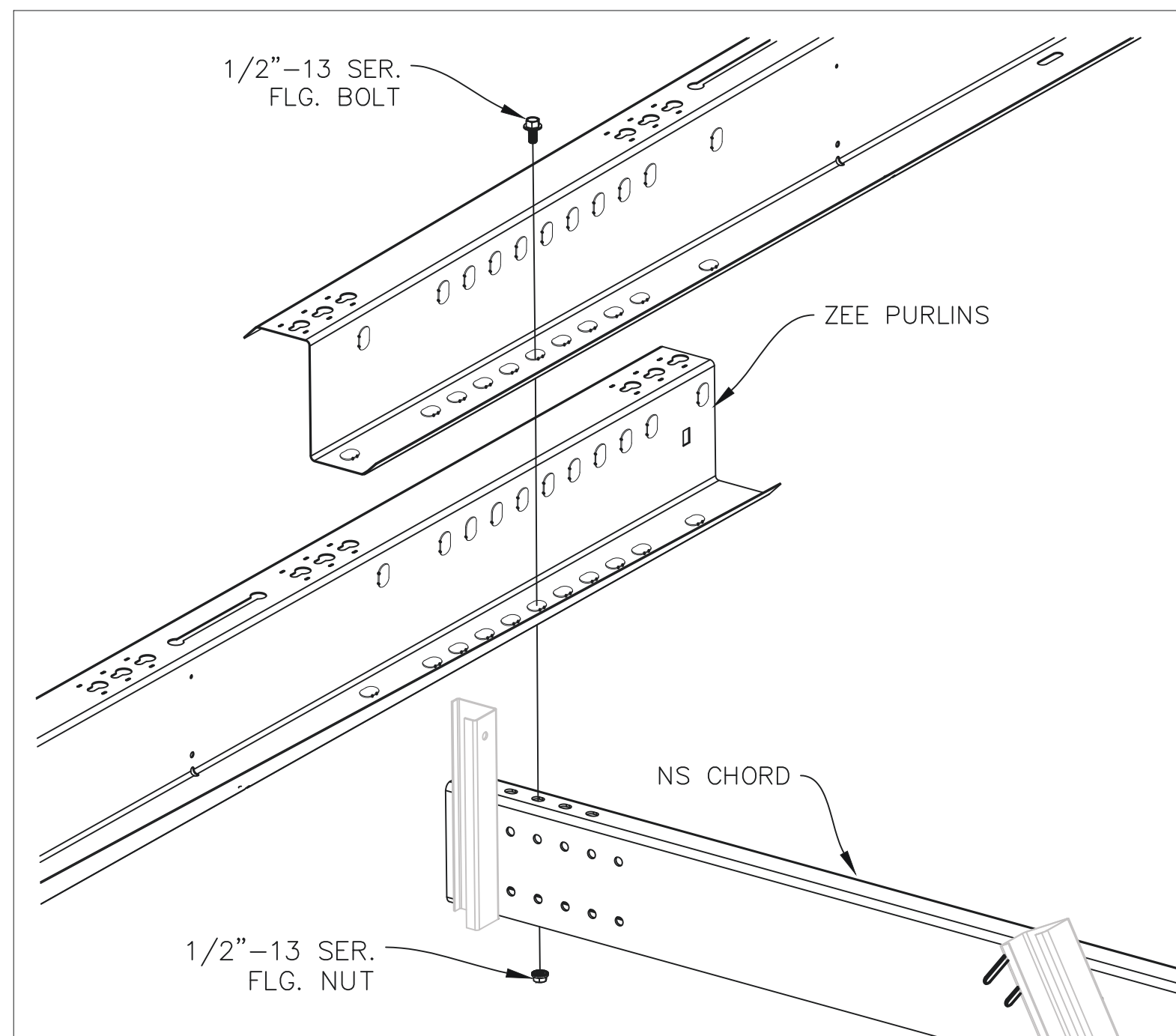
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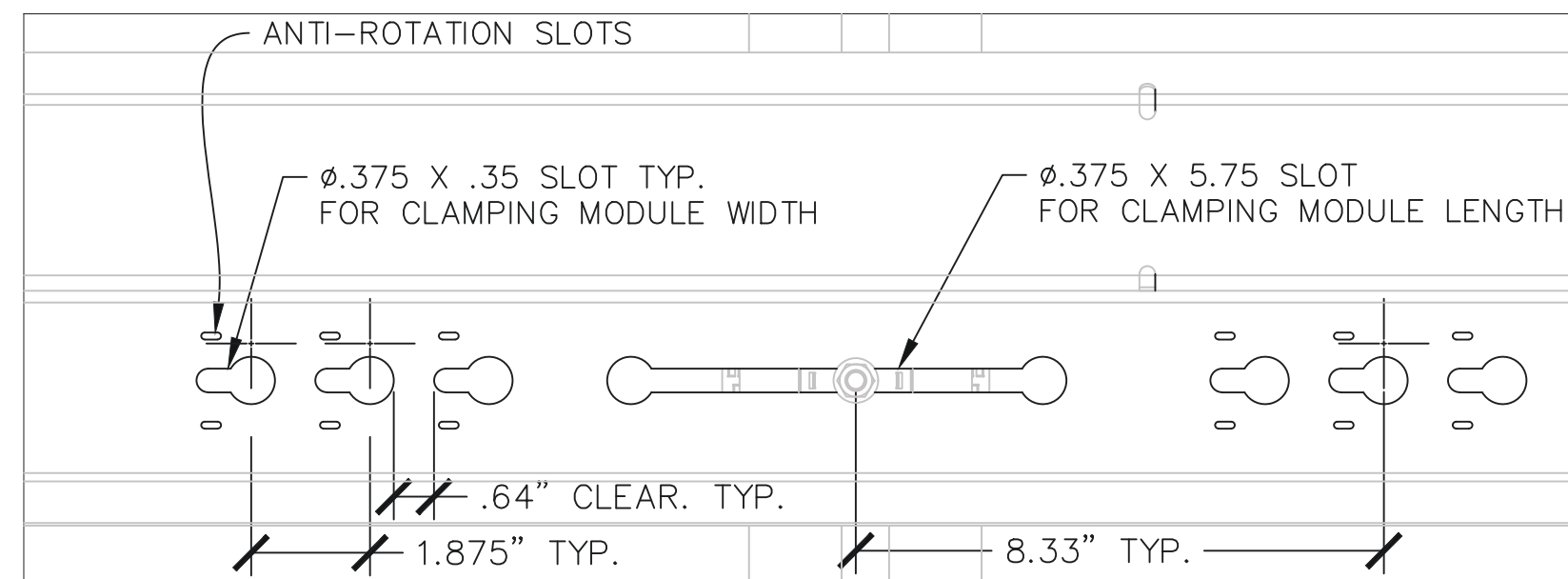
**B1 OVERVIEW: ZEE PURLIN CONNECTIONS (RACK UNDERSIDE)**



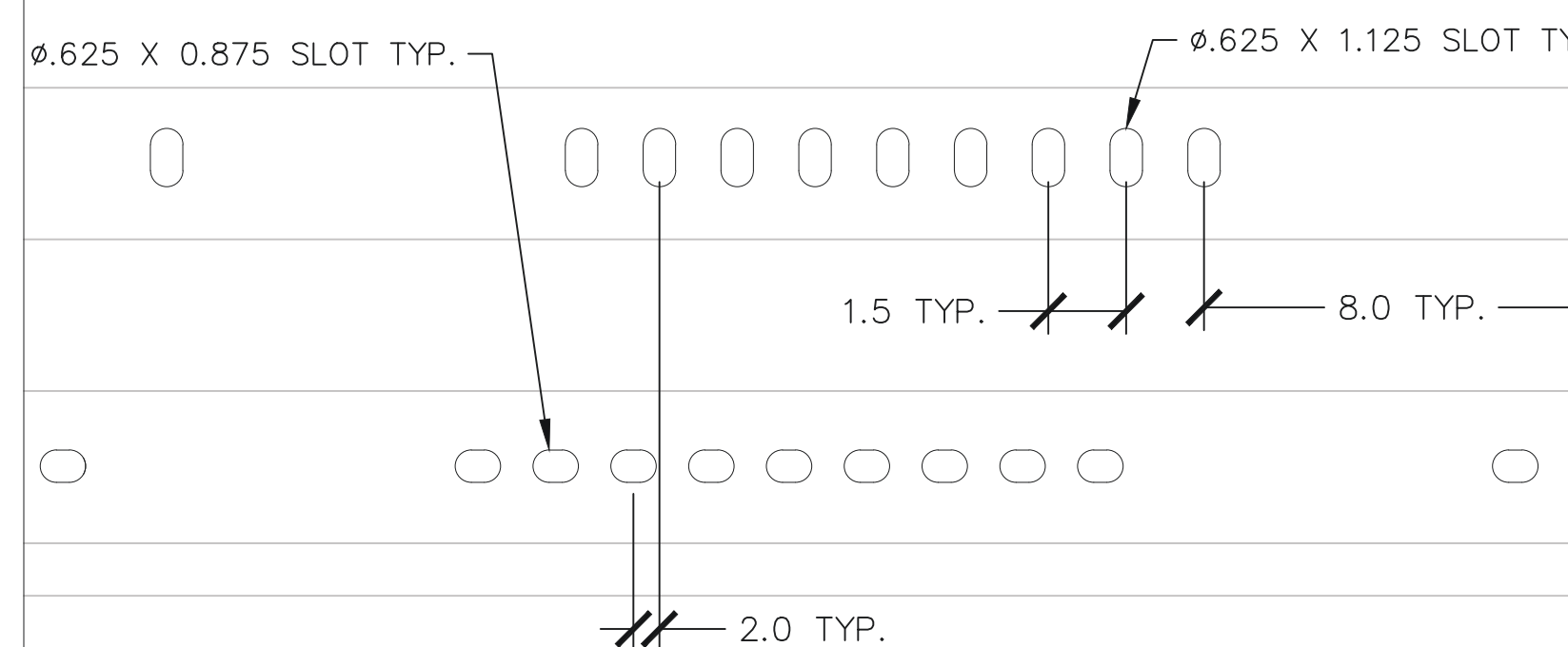
**A1 CONNECTION: ZEE PURLINS-TO-ROLL BAR**



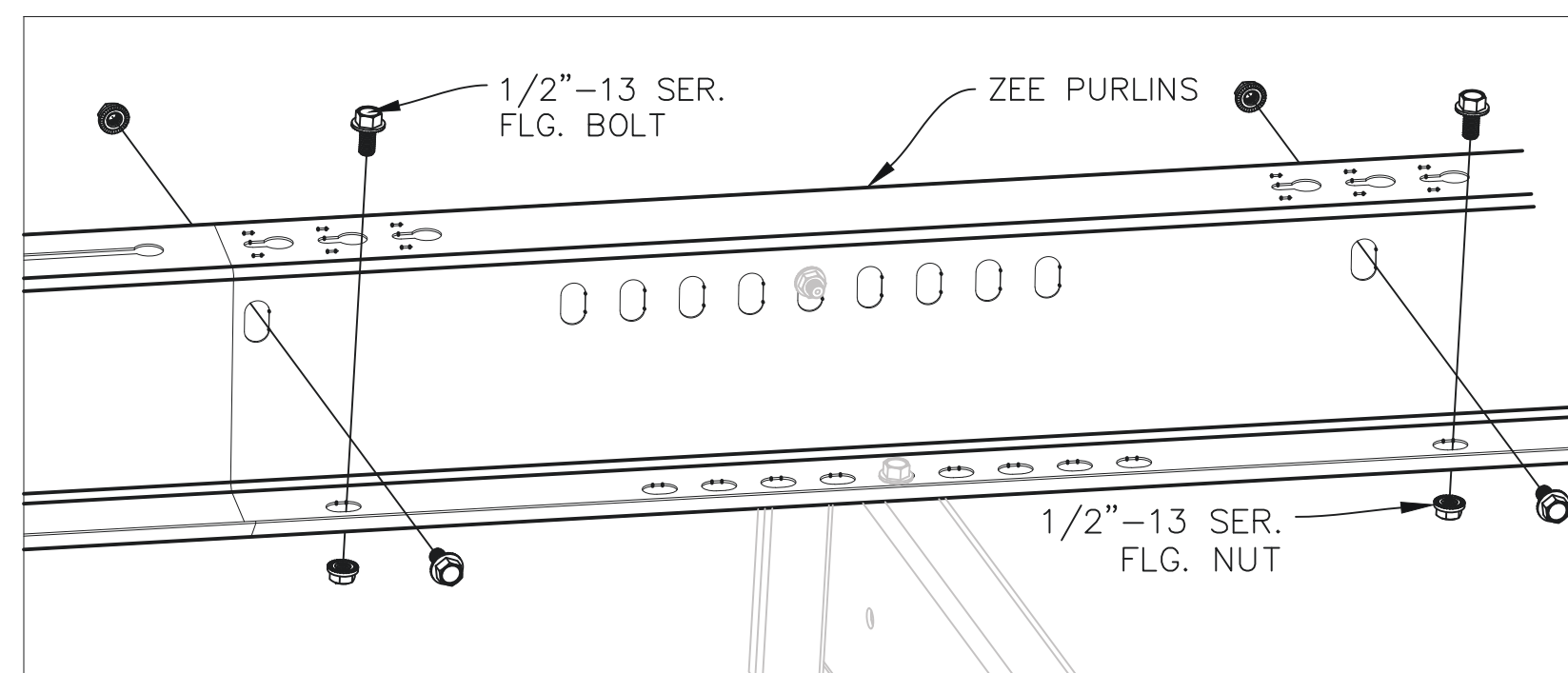
**A2 CONNECTION: ZEE PURLINS-TO-NS CHORD**



**E4 DETAIL: ZEE PURLIN PANEL SLOTS**



**D4 DETAIL: ZEE PURLIN SPLICE SLOTS**



**C4 CONNECTION: ZEE-TO-ZEE PURLINS SPLICE**

**NOTES:**

- HARDWARE TORQUE VALUES:**  
3/8"-16 STAINLESS STEEL  
MIN.: 17.5 FT-LBS  
NOM.: 19.6 FT-LBS  
MAX.: 50.0 FT-LBS
- DEPICTED HARDWARE AND PART PLACEMENT NOT INDICATIVE OF PREFERRED OR REQUIRED POSITIONS.
- HOLE/SLOT PATTERNS IN PARTS ALLOW FOR DEVIATION FROM NOMINAL DIMENSIONS, MULTIPLE PART POSITIONS, AND MULTIPLE TILT ANGLES.
- SEE INSTALLATION MANUAL FOR SETUP INSTRUCTIONS.
- SERRATED FLANGED BOLTS MAY BE REPLACED WITH EQUIVALENT PRESS-IN BOLTS.
- PRESS-IN BOLTS, WHERE PRESENT, TO BE INSTALLED TO MANUFACTURERS RECOMMENDED VALUES.
- OTHER SPECIFIC CONNECTIONS ELSEWHERE IN PRINT SET.
- SERRATED HARDWARE MAY BE REPLACED WITH EQUIVALENT HARDWARE WITH WASHERS IF NECESSARY.
- IN ALL DETAILS, THE PRESENCE OF TWO SETS OF HARDWARE INDICATES THE REQUIREMENT OF TWO SETS OF HARDWARE.
- STAINLESS STEEL HARDWARE MAY BE REPLACED WITH GALVANIZED STEEL HARDWARE OR CORROSION AND STRENGTH COMPARABLE HARDWARE MATERIALS AND FINISHES.
- UNLESS NOTED OTHERWISE, ALL HARDWARE MAY BE INSTALLED IN EITHER DIRECTION (NUT/BOLT MAY BE ON EITHER SIDE OF CONNECTION).
- WHEN NECESSARY, ADDITIONAL HOLES MAY BE DRILLED TO COMPLETE CONNECTION. ENGINEERING SHALL BE CONTRACTED PRIOR TO FIELD MODIFICATIONS OF PARTS.
- CONNECTION IN DETAIL A1 & A2 SHOWN IN NOMINAL POSITION. ACTUAL CONNECTION MAY BE ±6".
- WHEN CONNECTIONS IN DETAIL A1 & A2 ARE AT THEIR MAX/MIN POSITIONS (±2") INTERFERING SPLICE HARDWARE MAY BE RELOCATED TO NEXT NEAREST SLOTS.
- WHERE PRESENT, TRANSVERSE BRACE MAY UTILIZE LOWER SPLICE BOLTS. SEE CONNECTIONS SHEET FOR MORE INFORMATION.
- ZEE-TO-ZEE SPLICE SHALL ALWAYS OVERLAP MINIMUM 32", AS INDICATED, EXCEPT AT ENDS OF ROW, WHERE NO SPLICE IS REQUIRED.
- SPLICE MAY OVERLAP IN EITHER DIRECTION.
- ZEE PURLIN MATERIAL AND FINISH ARE MANUFACTURED TO SPECIFICATIONS THAT MEET OR EXCEED OUR STANDARD PRODUCT WARRANTY.
- ZEE PURLINS GALVANIZED TO CONFORM TO A MINIMUM THICKNESS DESIGNATION EQUAL TO G90 OR INLINE GALVANIZED TO COMPARABLE THICKNESS AS PER ASTM A1057.
- TYPICAL ZEE PURLIN RETURN LIP ANGLE SHOWN. ACTUAL ANGLE MAY VARY.
- SLOT DIMENSIONS FOR REFERENCE ONLY. FINAL SHAPE, FREQUENCY, AND DIMENSIONS MAY VARY.
- LENGTH OF PURLIN VARIES BY PROJECT AND LOCATION WITHIN ARRAY.

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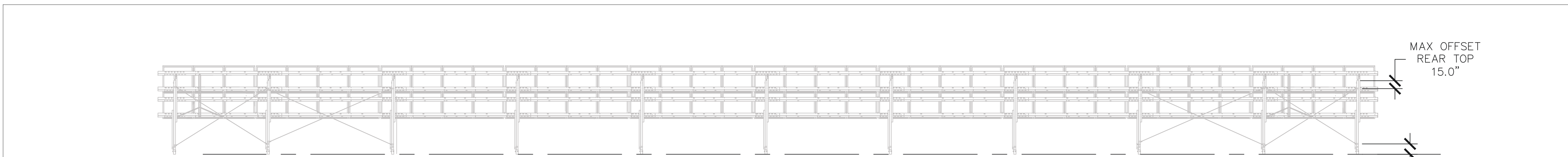
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SHEET NAME			
STRUCTURAL PURLINS			
PROJECT NUMBER			
220695			
DRAWING NUMBER			
S.500			
			REV.
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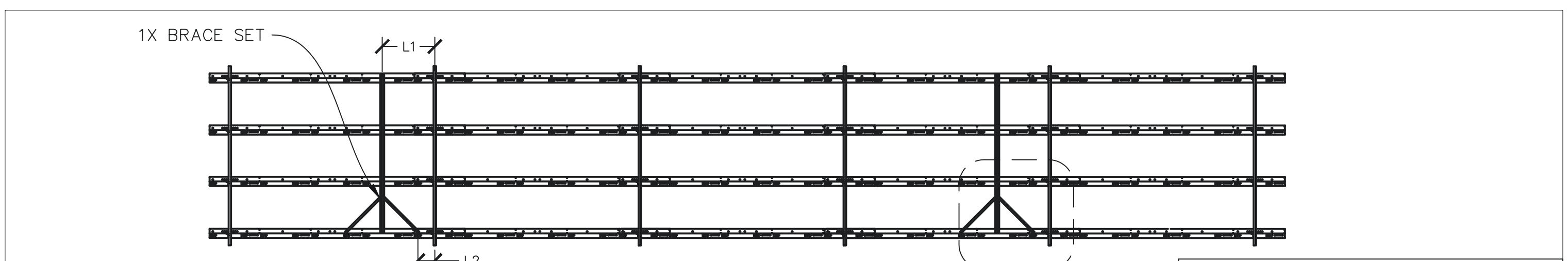
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SCALE IS REDUCED WHEN SHEET SIZE IS 11" x 17"



EAST/WEST CABLE BRACE FREQUENCY: OUTER 2 BAYS (BETWEEN EAST-WEST SPAN) OF EVERY ROW. ADDITIONALLY EVERY SEVENTH BAY, MIN

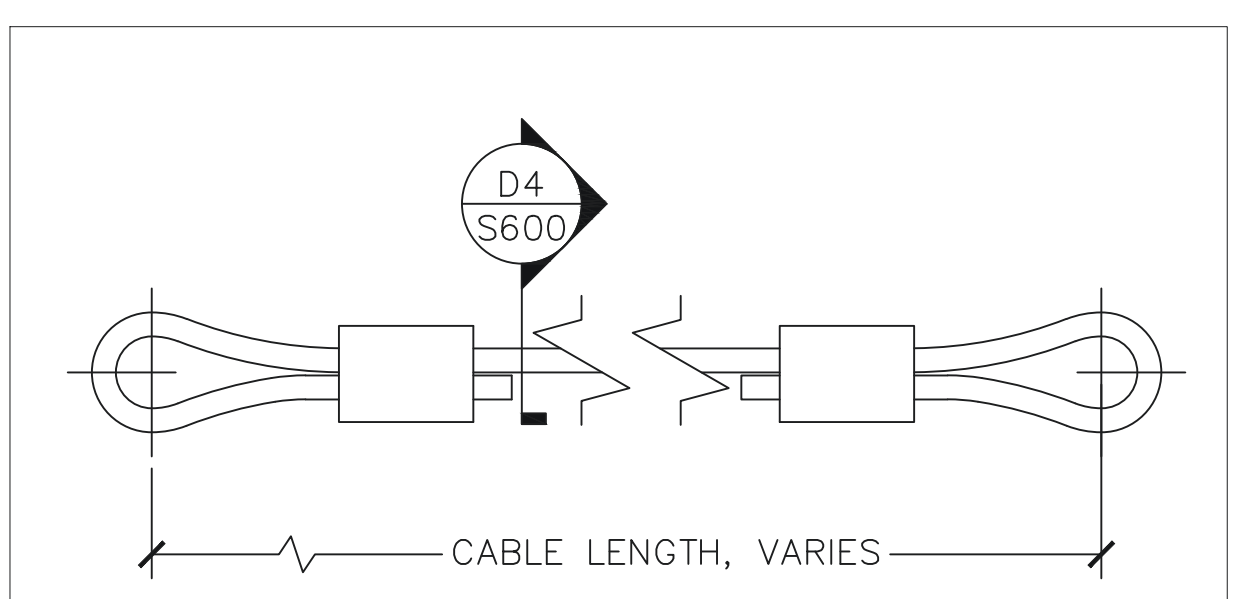
**E1 REAR VIEW: CABLE BRACE FREQUENCY**



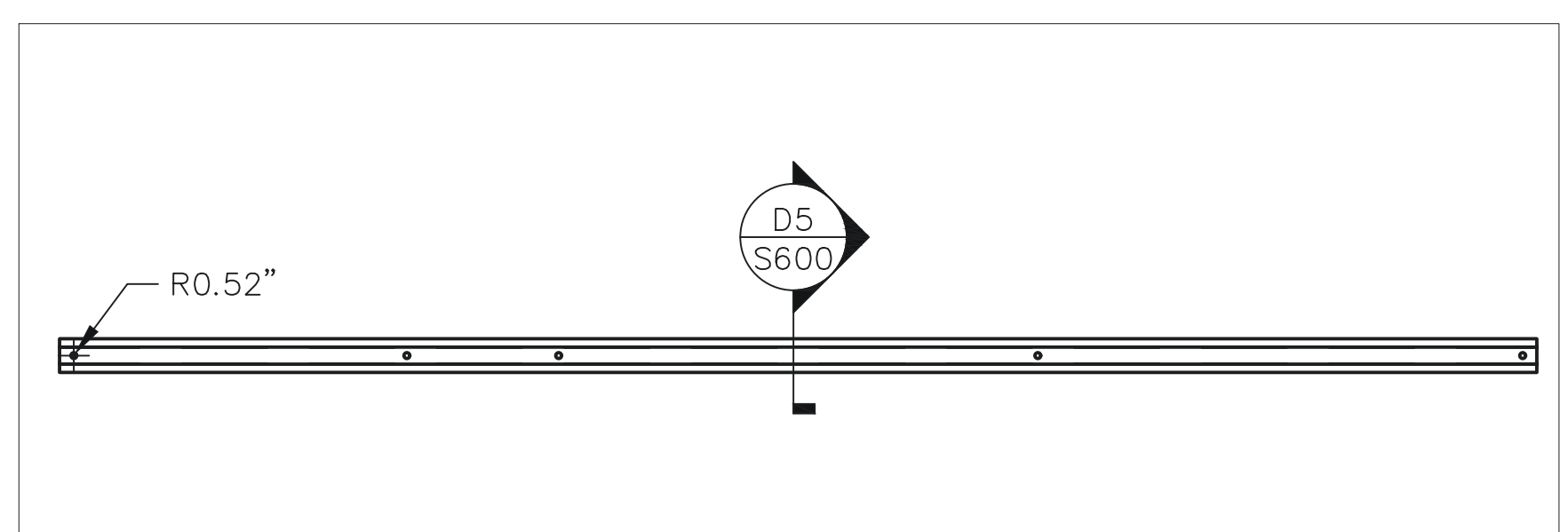
TRANSVERSE BRACE FREQUENCY:  
1X BRACE SET AT FIRST & LAST SPLICE PER ROW  
1X ADDITIONAL SET EVERY 200', MIN.

TRANSVERSE BRACE LOCATION FROM CHORD		
MODULES PER BAY	L1	L2
>3	(70.25")	(12.00")
<4	(52.00")	(14.00")

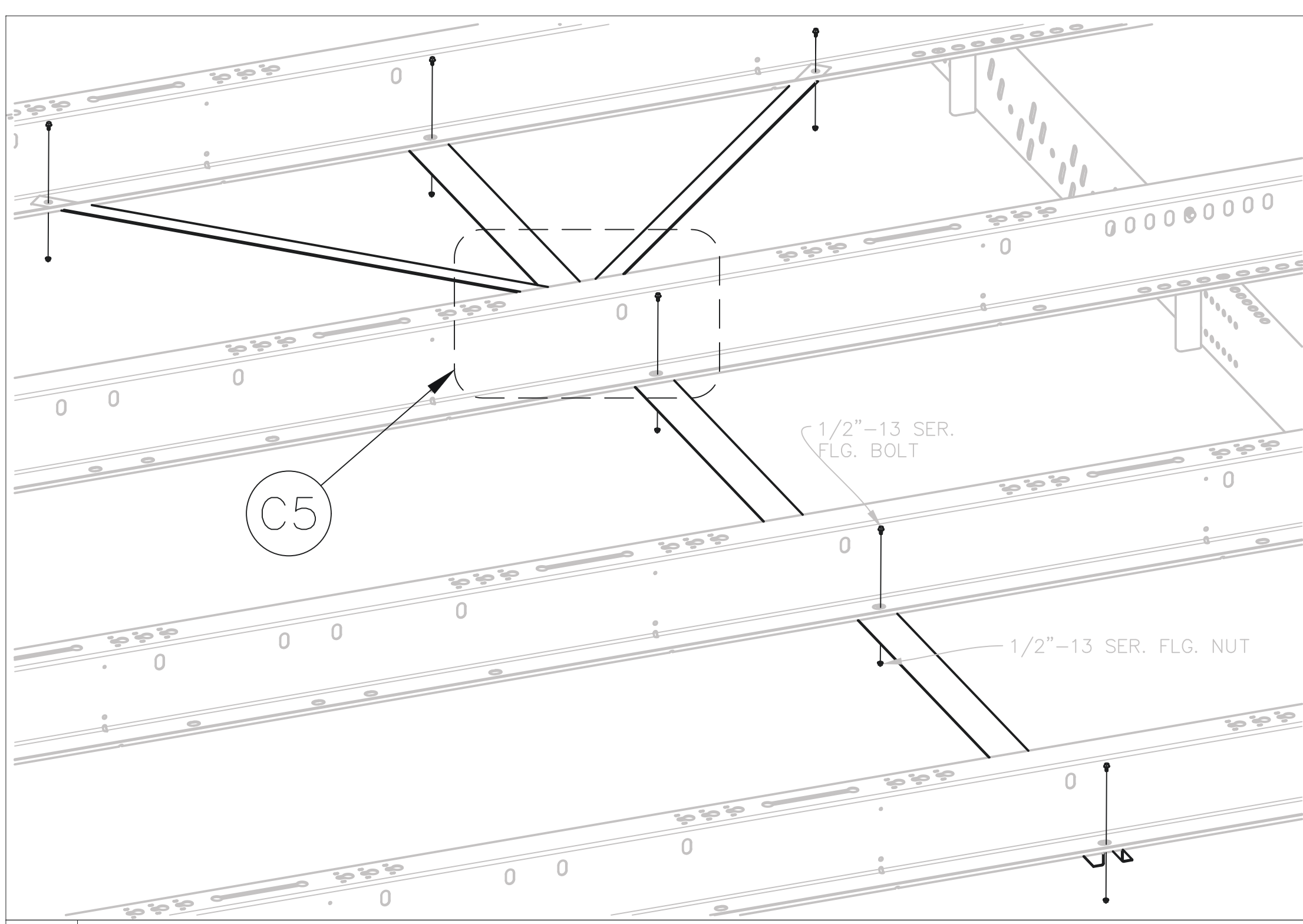
**D1 BOTTOM VIEW: TRANSVERSE BRACE LOCATIONS**



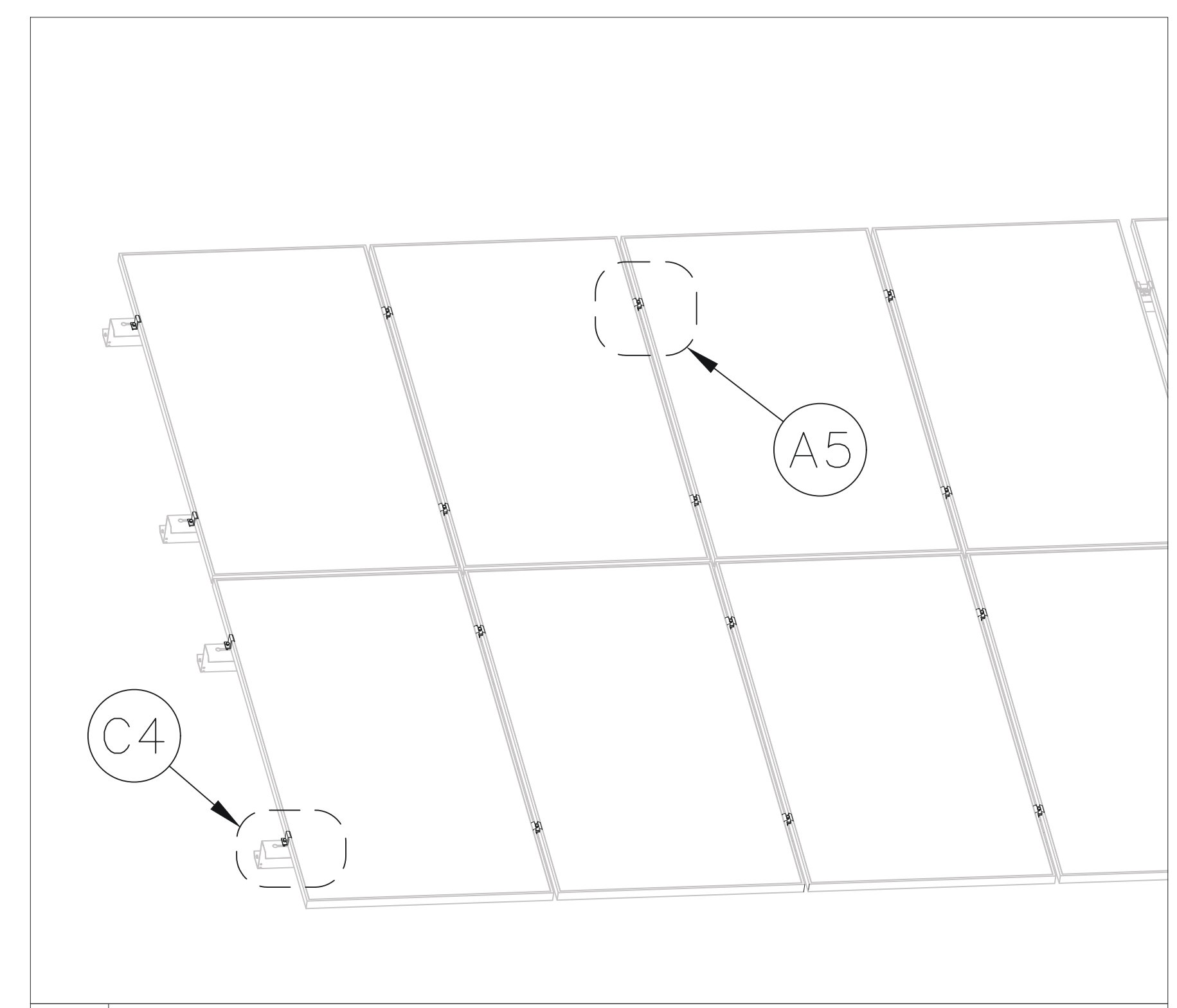
**C1 PART: CABLE BRACE**



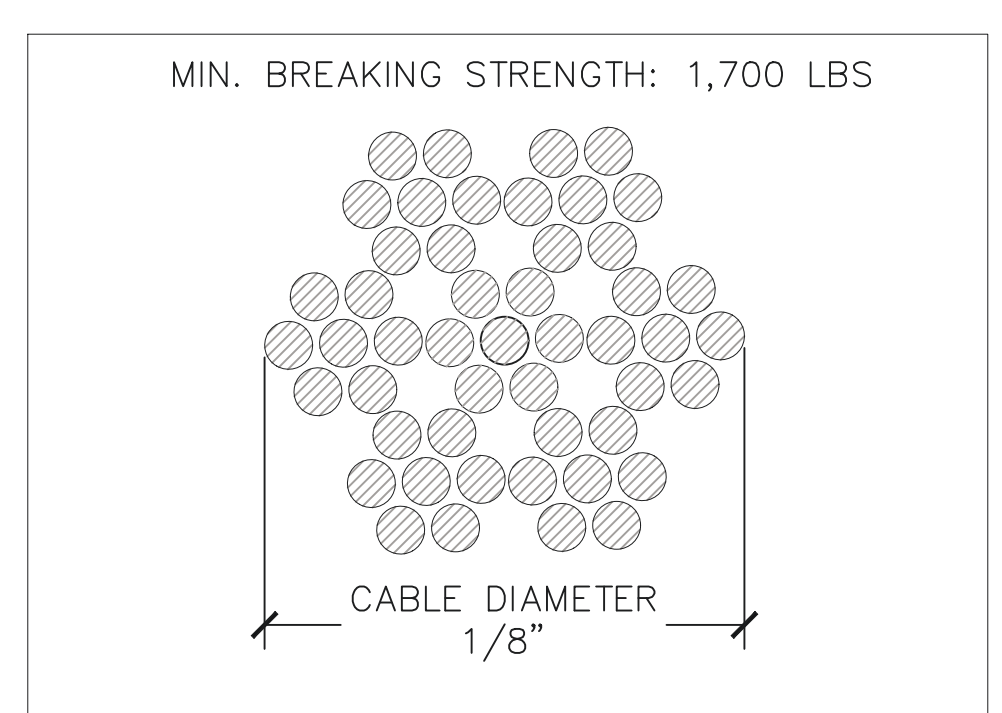
**C2 PART: TRANSVERSE BRACE (TVS BRACE)**



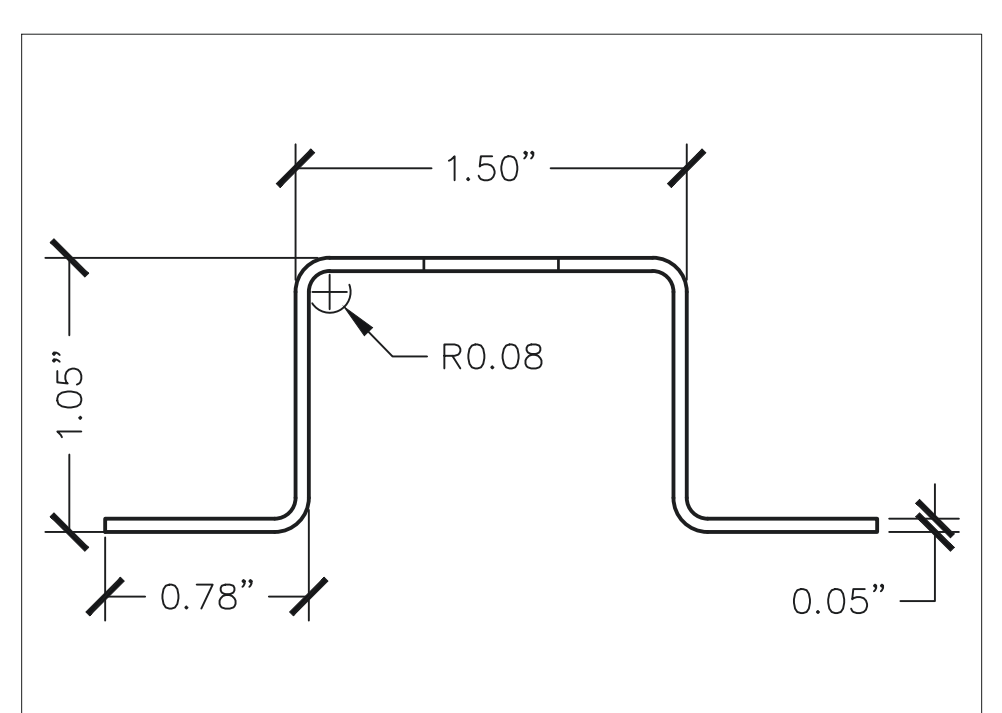
**A1 CONNECTION: TVS BRACE-TO-PURLIN**



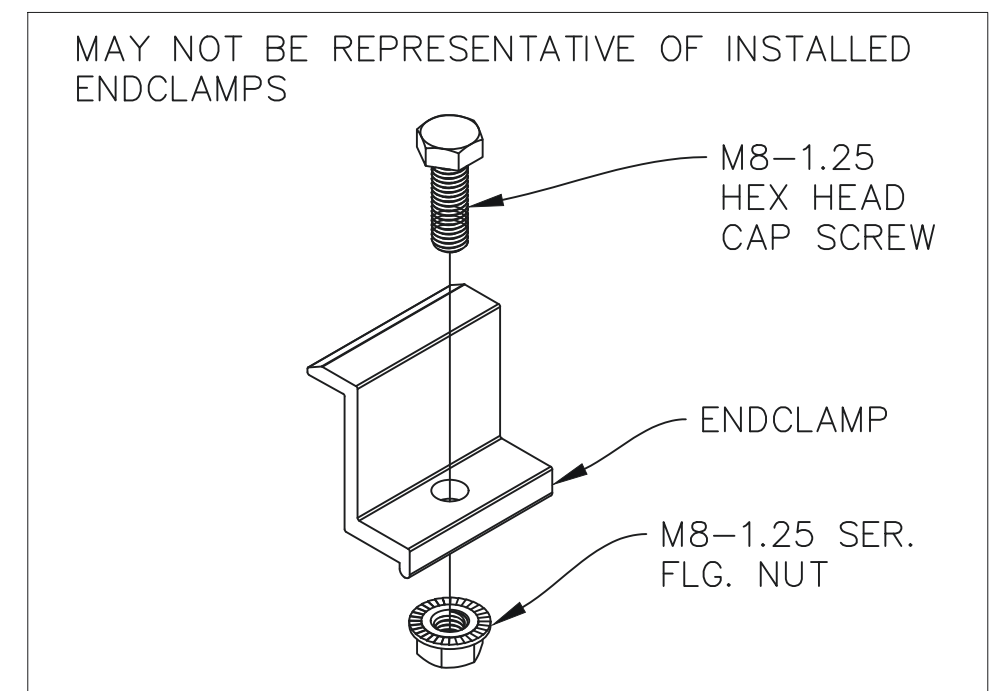
**A3 TOP (ISO) VIEW: PV CLAMP LOCATIONS**



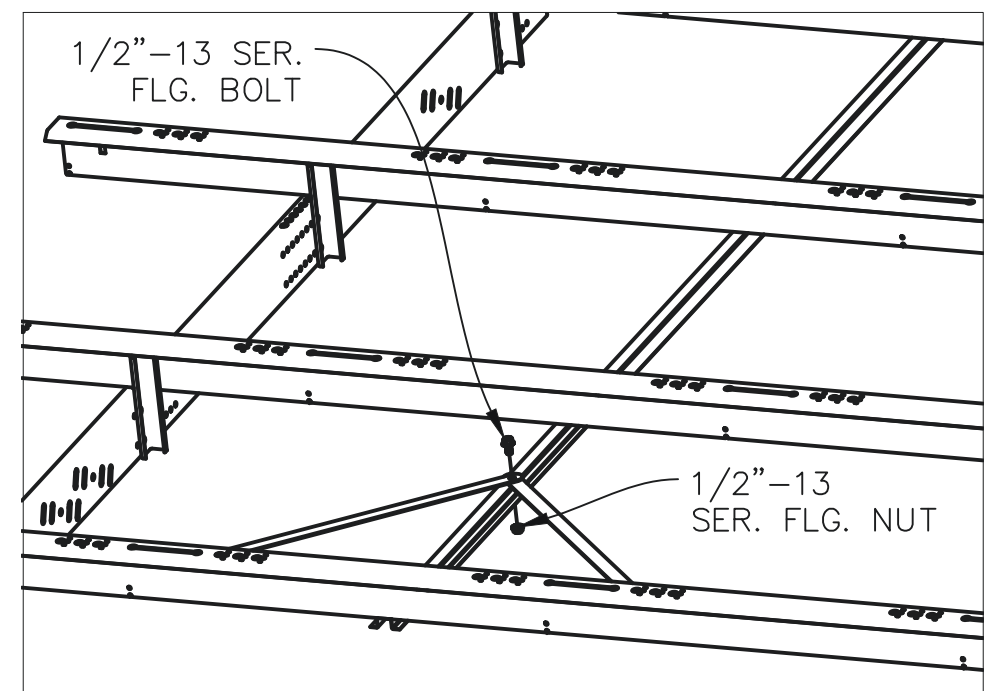
**D4 SEC.: CABLE BRACE**



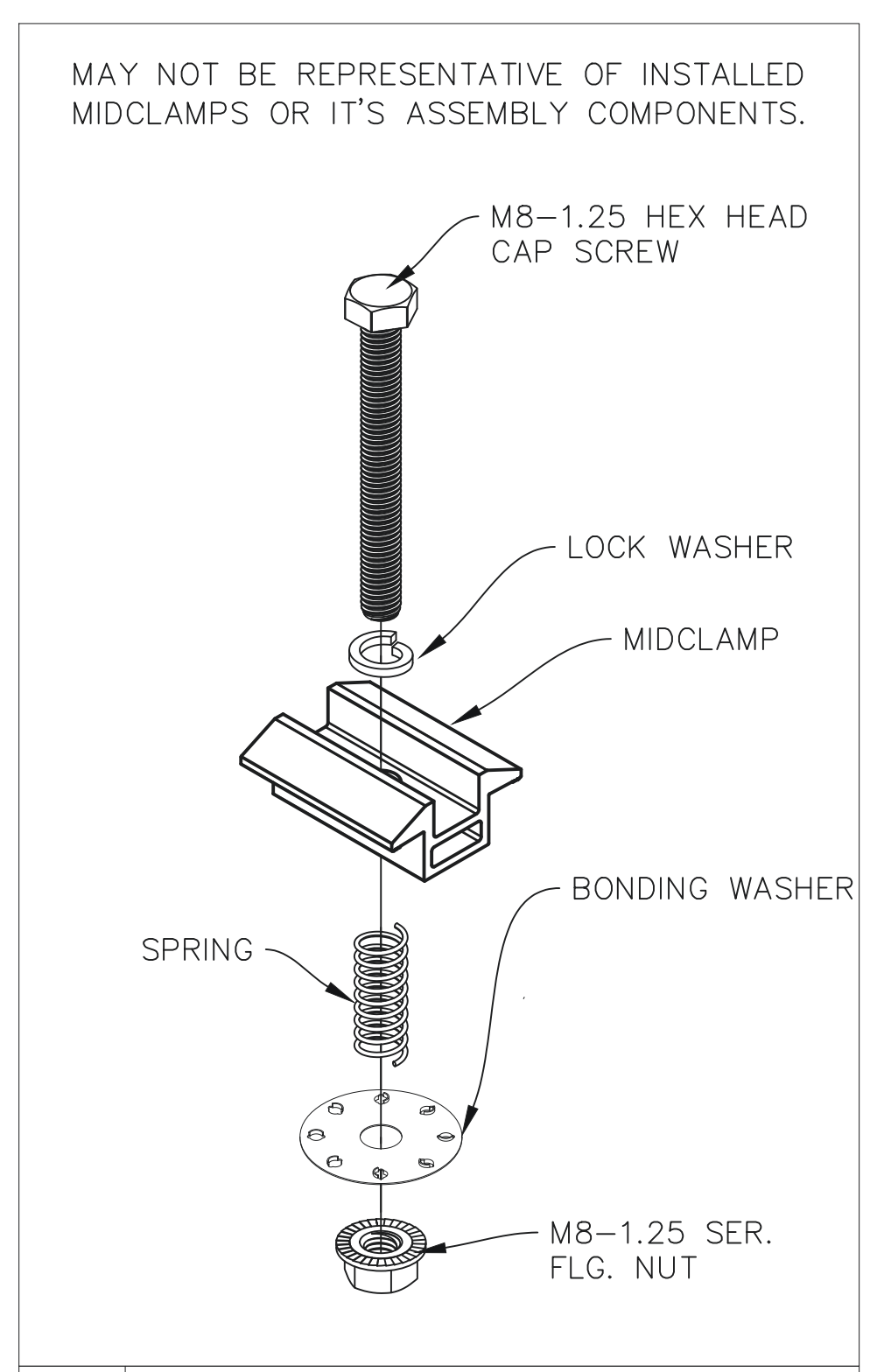
**D5 SECTION: TVS BRACE**



**C4 ASSEMBLY: ENDCLAMP**



**C5 TVS BRACE ASSEMBLY**



**A5 ASSEMBLY: MIDCLAMP**

- NOTES:
- HARDWARE TORQUE VALUES:  
1/2"-13 STAINLESS STEEL  
MIN.: 40 FT-LBS  
  
M8-1.25 STAINLESS STEEL  
MIN.: 14.0 FT-LBS  
NOM.: 15.6 FT-LBS  
MAX.: 25 FT-LBS
  - DEPICTED HARDWARE AND PART PLACEMENT NOT INDICATIVE OF PREFERRED OR REQUIRED POSITIONS.
  - HOLE/SLOT PATTERNS IN PARTS ALLOW FOR DEVIATION FROM NOMINAL DIMENSIONS, MULTIPLE PART POSITIONS, AND MULTIPLE TILT ANGLES.
  - SEE INSTALLATION MANUAL FOR SETUP INSTRUCTIONS.
  - SERRATED FLANGED BOLTS MAY BE REPLACED WITH EQUIVALENT PRESS-IN BOLTS. SEE NOTE 8 FOR MORE INFORMATION.
  - PRESS-IN BOLTS, WHERE PRESENT, TO BE INSTALLED TO MANUFACTURERS RECOMMENDED VALUES.
  - OTHER SPECIFIC CONNECTIONS ELSEWHERE IN PRINT SET.
  - SERRATED HARDWARE MAY BE REPLACED WITH EQUIVALENT HARDWARE WITH WASHERS IF NECESSARY.
  - STAINLESS STEEL HARDWARE MAY BE REPLACED WITH GALVANIZED STEEL HARDWARE OR CORROSION AND STRENGTH COMPARABLE HARDWARE MATERIALS AND FINISHES.
  - UNLESS NOTED OTHERWISE, ALL HARDWARE MAY BE INSTALLED IN EITHER DIRECTION (NUT/BOLT MAY BE ON EITHER SIDE OF CONNECTION).
  - WHEN NECESSARY, ADDITIONAL HOLES MAY BE DRILLED TO COMPLETE CONNECTION. ENGINEERING SHALL BE CONTRACTED PRIOR TO FIELD MODIFICATIONS OF PARTS.
  - EAST/WEST CABLE BRACING (C1) TO BE INSTALLED IN THE SPACE BETWEEN ANCHOR SETS (BAY).
  - MINIMUM CABLE BREAKING STRENGTH DETERMINED BY PROJECT SPECIFIC STRUCTURAL CALCULATIONS.
  - CABLE TO BE STAINLESS STEEL AIRCRAFT CABLE.
  - CABLE MAY BE OF ANY CONFIGURATION (IE. 7X7 OR 7X19) AS LONG AS IT MEETS THE REQUIREMENTS LISTED ON THIS SHEET.
  - LENGTH OF BRACES WILL VARY DEPENDENT ON PROJECT SPECIFICS.
  - TRANSVERSE BRACE SETS SHALL BE INSTALLED AT FREQUENCY INDICATED.
  - TRANSVERSE BRACES ARE NOT A REQUIREMENT OF THE STRUCTURAL MODELS. APA REQUIRES THEIR PRESENCE AS AN ASSEMBLY AID ONLY.
  - DUE TO IT'S NON-STRUCTURAL NATURE, TRANSVERSE BRACE PROFILE, THICKNESS, MATERIAL, STRENGTH, COATING, FREQUENCY, AND INSTALLATION MAY CHANGE AT ANY TIME AT THE DISCRETION OF APA, BY APPROVAL OF APA ENGINEERING.
  - WHERE TRANSVERSE BRACE CANNOT BE INSTALLED DUE TO NS CHORD (OUT OF NOMINAL LOCATION), BRACE SHALL BE RELOCATED TO NEXT NEAREST REASONABLE SPLICE.
  - TRANSVERSE BRACE MAY UTILIZE LOWER SPLICE BOLTS, WHERE PRESENT. SEE PURLIN SHEET FOR MORE INFORMATION.
  - EACH PV MODULE SHALL BE CLAMPED IN 4 PLACES.
  - A MAJORITY OF THE CLAMP BOLT FLANGES MUST TERMINATE OVER THE SLOT, AND NOT OVER THE KEYHOLE.
  - SPRING, & PANEL GUIDE MAY NOT BE PRESENT AT ALL LOCATIONS, OR ANY LOCATIONS.
  - ALL PANELS MUST BE GROUNDED/BONDED TO ZEE PURLINS. THIS MAY BE ACCOMPLISHED WITH THE PANEL GUIDE, BONDING WASHERS, DYNABOND EQUIPMENT OR OTHER APPROVED GROUNING DEVICE.

CUSTOMER

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PROFESSIONAL SEAL/STAMP

*Joseph J. DiStasio*  
J. DiStasio  
03842  
LICENSED PROFESSIONAL ENGINEER  
1/25

STRUCTURAL PRINT PACKAGE

DOCUMENT NAME: STRUCTURAL PRINT PACKAGE  
SITE STREET ADDRESS: 122 MILL RD.  
SITE CITY, STATE, ZIP: NORTH HAVEN, CT 06473

SHEET REVISIONS

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	03/16/2023

**APPROVED**

DRAWN	REVIEWED	APPROVED	SIZE
LB	TM	JDI	D
SHEET NAME CLAMPS & BRACES			
PROJECT NUMBER 220695			
DRAWING NUMBER S.600			REV. A