

STRUCTURAL PRINT PACKAGE - 250583

MADISON SOLAR

391 DURHAM RD MADISON, CT 06443

REVISION: A

PERMIT SET/
STRUCTURAL PACKET

A P P R O V E D

CUSTOMER



SEA OAK CAPITAL
3320 CARDINAL DR, P.O. BOX 644318
VERO BEACH, FL 32964
(P) 772.633.2875

FOUNDATION PROVIDER



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

TRACKER PROVIDER



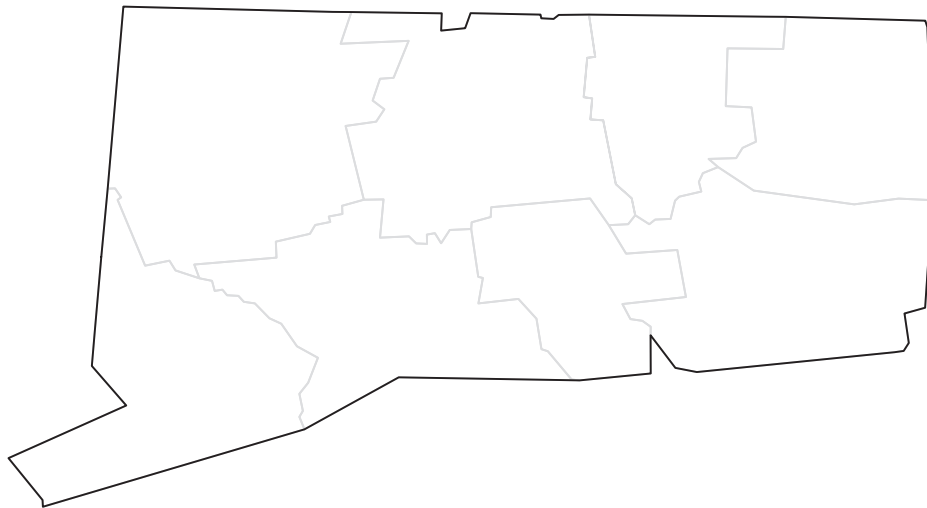
GOVERNING STRUCTURAL CODE/S

2021 INTERNATIONAL BUILDING CODE

LOADING DOCUMENTS REFERENCED

SEAOAK_MADISON_ARRAY_GFC_CHSM66M-DG-F-BH_8.5FT-7.5FT-6.5FT_05_19_2025

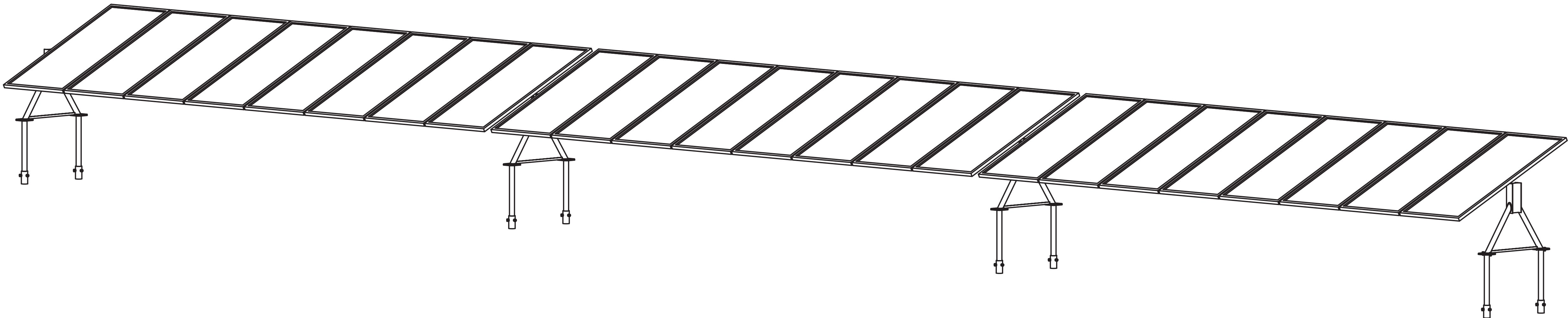
Top of pile loads are supplied by the tracker company's structural EOR and not determined by APA or JDI.



SHEET INDEX

STRUCTURAL		
S-000	A	STRUCTURAL COVER
S-100	A	A-FRAME OVERVIEW
S-101	A	A-FRAME AUXILIARY TOLERANCES
S-300	A	MOTOR/DAMPER PIER COMPONENTS
S-301	A	STD PIER COMPONENTS
S-302	A	A-FRAME COMPONENTS
S-400	A	CONNECTIONS OVERVIEW
S-500	A	FULL ROW BRACING OVERVIEW
S-501	A	PARTIAL ROW BRACING OVERVIEW

SOLAR PHOTOVOLTAIC GROUND MOUNT



STRUC. ENGINEER OF RECORD



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

PROFESSIONAL SEAL/STAMP

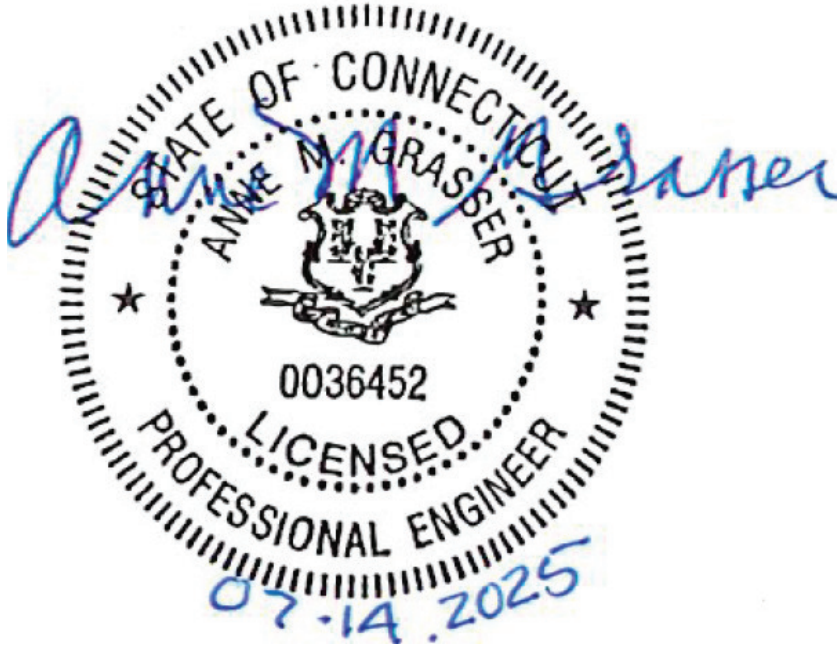
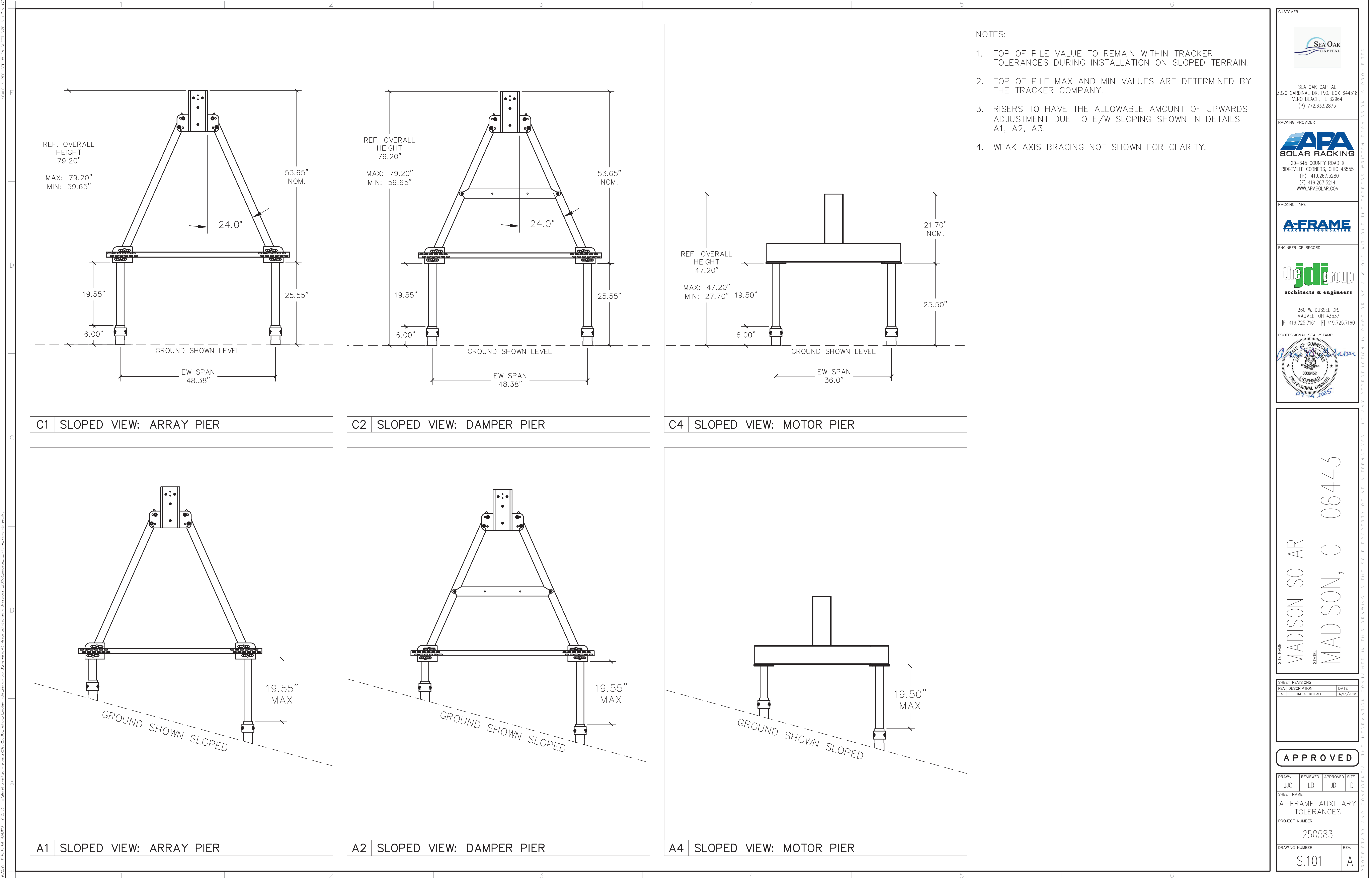


IMAGE FOR REFERENCE ONLY



- NOTES:
- 1. TOP OF PILE VALUE TO REMAIN WITHIN TRACKER TOLERANCES DURING INSTALLATION ON SLOPED TERRAIN.
 - 2. TOP OF PILE MAX AND MIN VALUES ARE DETERMINED BY THE TRACKER COMPANY.
 - 3. RISERS TO HAVE THE ALLOWABLE AMOUNT OF UPWARDS ADJUSTMENT DUE TO E/W SLOPING SHOWN IN DETAILS A1, A2, A3.
 - 4. WEAK AXIS BRACING NOT SHOWN FOR CLARITY.

CUSTOMER



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20-345 COUNTY ROAD X
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RACKING TYPE



ENGINEER OF RECORD



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PROFESSIONAL SEAL/STAMP



SITE NAME

MADISON SOLAR

STATE

MADISON, CT 06443

SHEET REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	6/18/2025

APPROVED

DRAWN	REVIEWED	APPROVED	SIZE
JJO	LB	JDI	D

SHEET NAME

A-FRAME AUXILIARY TOLERANCES

PROJECT NUMBER

250583

DRAWING NUMBER

S.101

REV.

A

20/20/2015 11:45:38 AM C:\EQUUS 2015-25-28 s:\beard drive\eqs - projects\2015\201505_moderns_d1_moderns_d1_a-frame_rec-untitled.dwg SCALE IS REDUCED WHEN SHEET SIZE IS 11" x 17"



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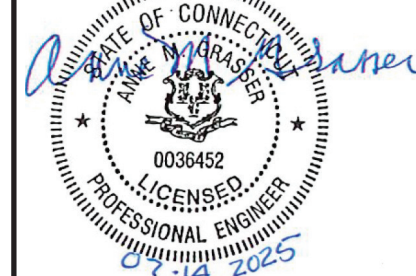
RACKING PROVIDER

RACKING TYPE

ENGINEER OF RECORD

360 W. DUSSEL DR.
MAUMEE, OH 43537
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PROFESSIONAL SEAL /STAMP



SITE NAME

SITE NAME: MADISON SOLAR
STATE: MADISON, CT 06443

SHEET REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR PERMIT
2	ISSUED FOR CONSTRUCTION
3	ISSUED FOR AS-BUILT
4	ISSUED FOR FINAL
5	ISSUED FOR FINAL
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DRAWN	REVIEWED	APPROVED	SIZE
JJO	LB	JDI	D

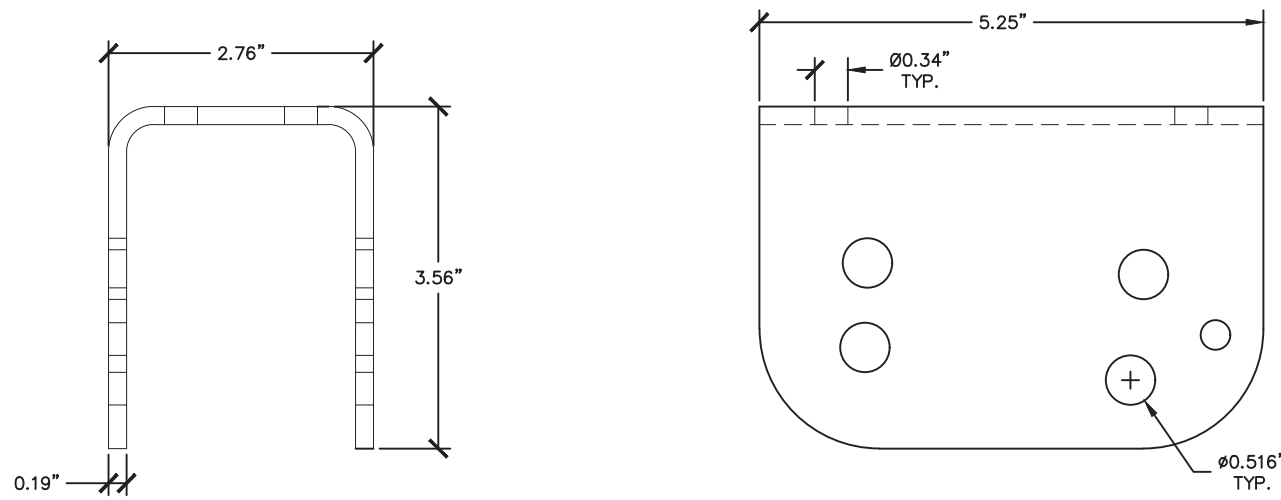
PROJECT NUMBER

DRAWING NUMBER

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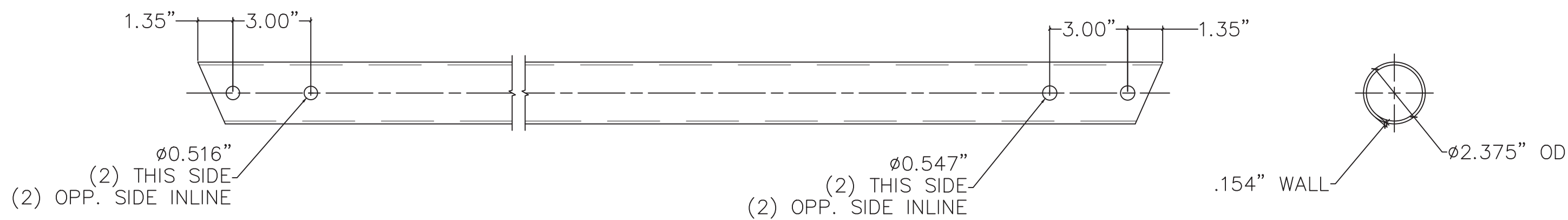
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STRENGTH: MIN. YIELD (Fy): 80 KSI.
G90 GALV COATING OR EQUIVALENT

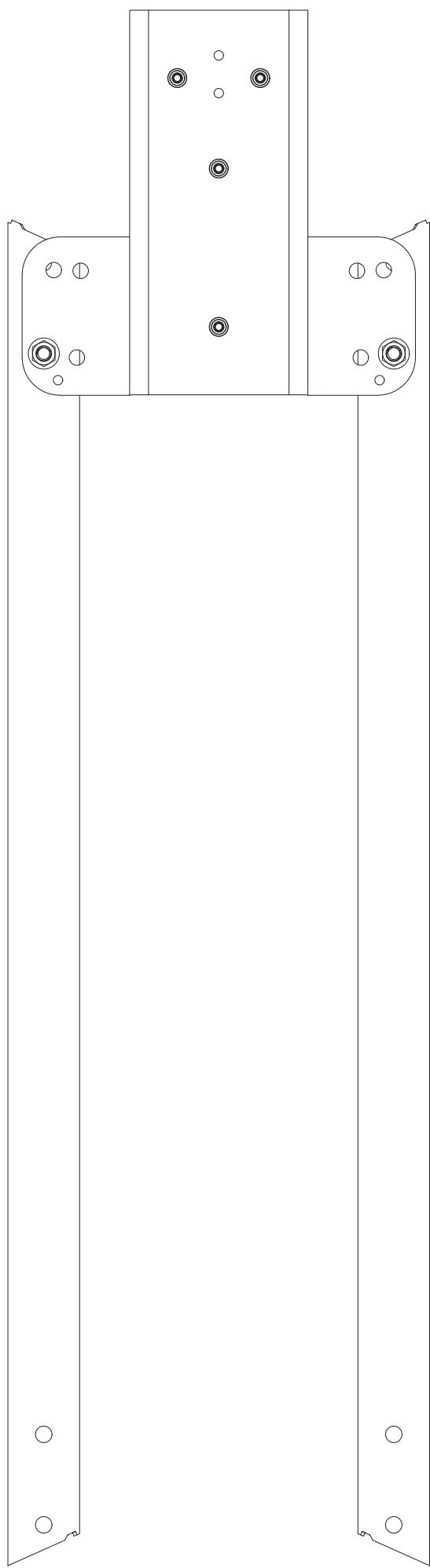


E1 SIDE / PROFILE VIEW: A-FRAME TOP ASSEMBLY SIDE BRACKET

MATERIAL: A500 GRADE C CF STR. STL.
STRENGTH: MIN. YIELD (Fy): 60 KSI.
G90 GALV COATING OR EQUIVALENT

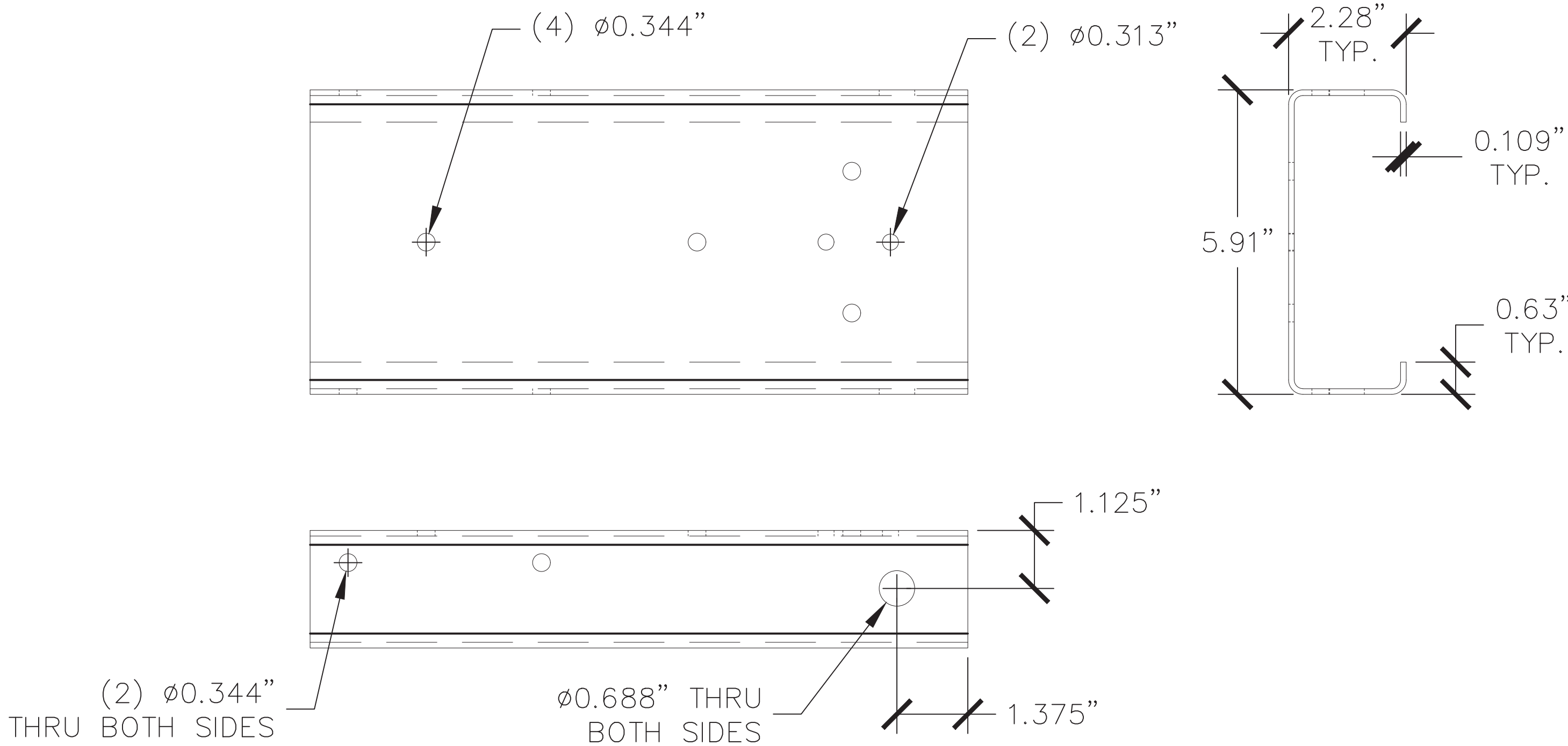


D1 SIDE / PROFILE VIEW: STD. A-FRAME TUBE

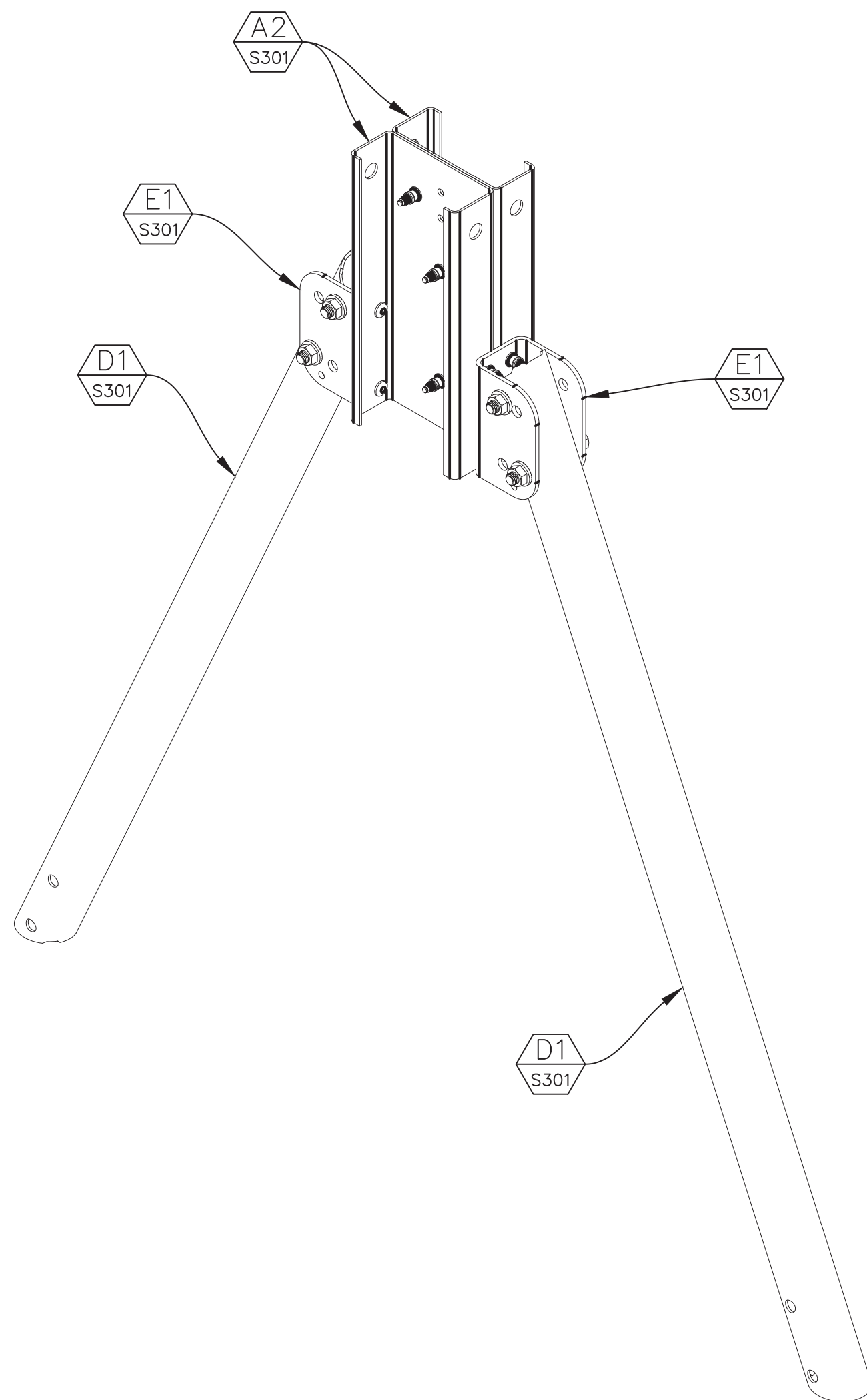


A1 A-FRAME ASSEMBLY FOR SHIPPING

STRENGTH: MIN. YIELD (Fy): 80 KSI.
G90 GALV COATING OR EQUIVALENT



A2 SIDE / PROFILE VIEW: A-FRAME TOP ASSEMBLY ROLLED BEAM (CEE)



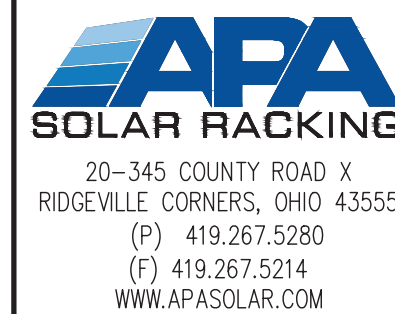
A5 ISO VIEW: STANDARD/DAMPER PIER

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RACKING PROVIDER



RACKING TYPE



ENGINEER OF RECORD



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PROFESSIONAL SEAL/STAMP



SITE NAME:

MADISON SOLAR

STATE: MADISON, CT 06443

SHEET REVISIONS

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	6/18/2025

APPROVED

DRAWN	REVIEWED	APPROVED	SIZE
JJO	LB	JDI	D

SHEET NAME

ARRAY PIER COMPONENTS

PROJECT NUMBER

250583

DRAWING NUMBER

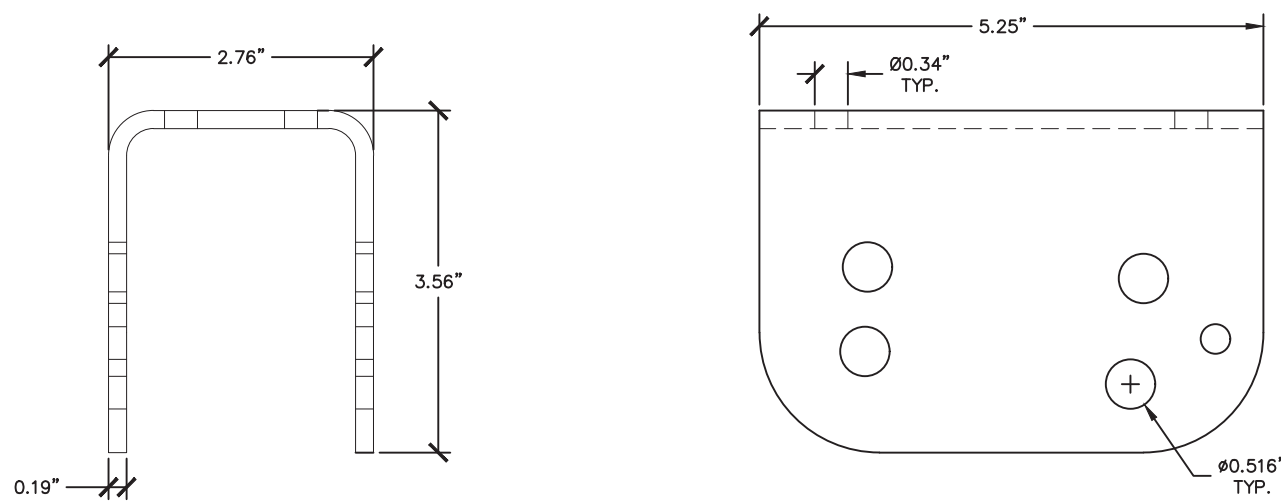
S.301

REV.

A

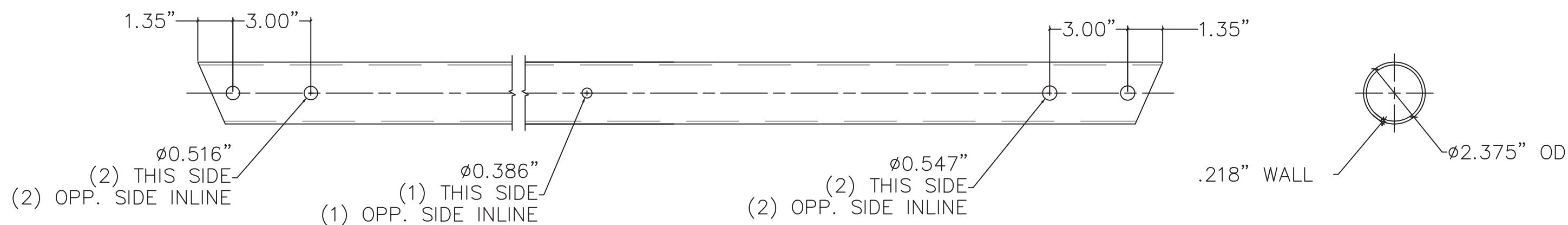
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SCALE IS REDUCED WHEN SHEET SIZE IS 11" x 17"

STRENGTH: MIN. YIELD (Fy): 80 KSI.
G90 GALV COATING OR EQUIVALENT



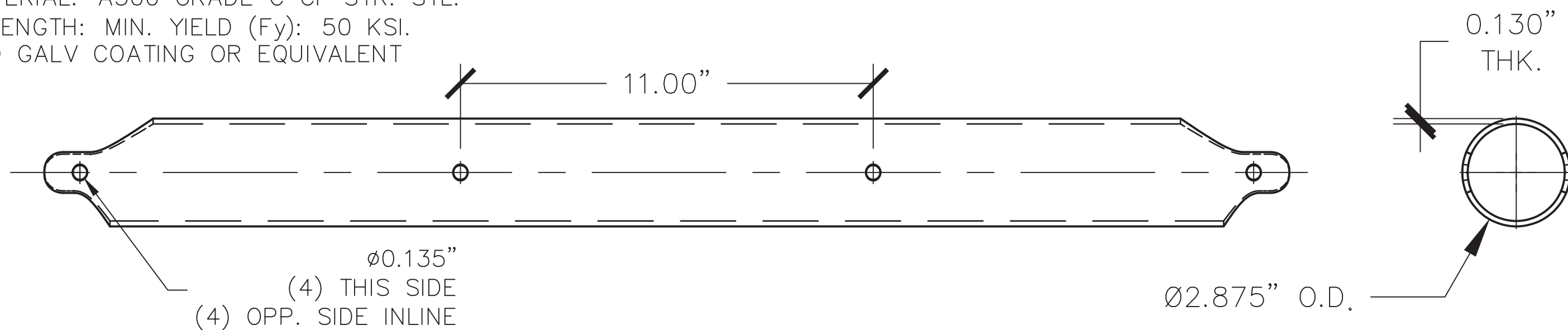
E1 SIDE / PROFILE VIEW: A-FRAME TOP ASSEMBLY SIDE BRACKET

MATERIAL: A500 GRADE C CF STR. STL.
STRENGTH: MIN. YIELD (Fy): 55 KSI.
G90 GALV COATING OR EQUIVALENT



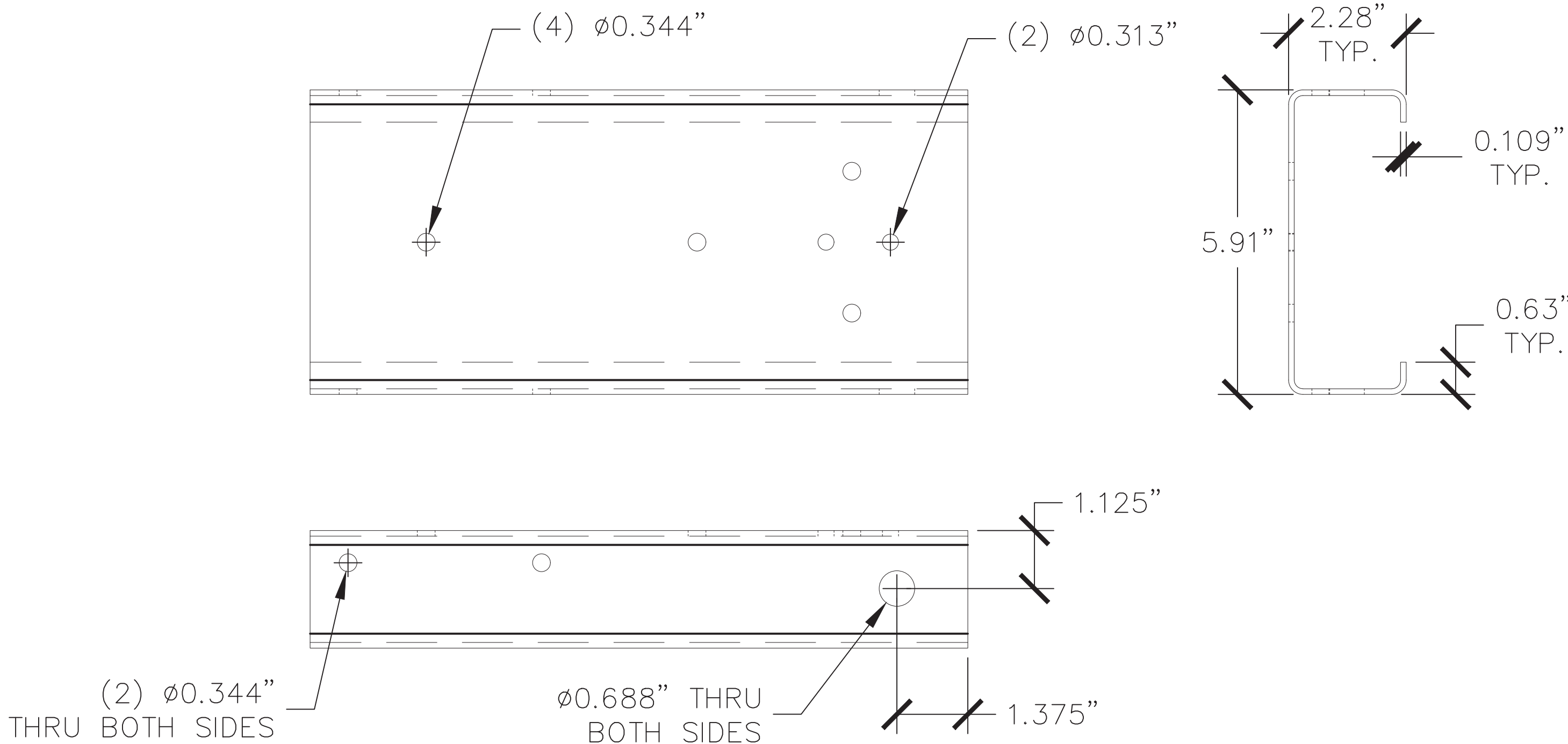
D1 SIDE / PROFILE VIEW: DAMPER A-FRAME TUBE

MATERIAL: A500 GRADE C CF STR. STL.
STRENGTH: MIN. YIELD (Fy): 50 KSI.
G90 GALV COATING OR EQUIVALENT

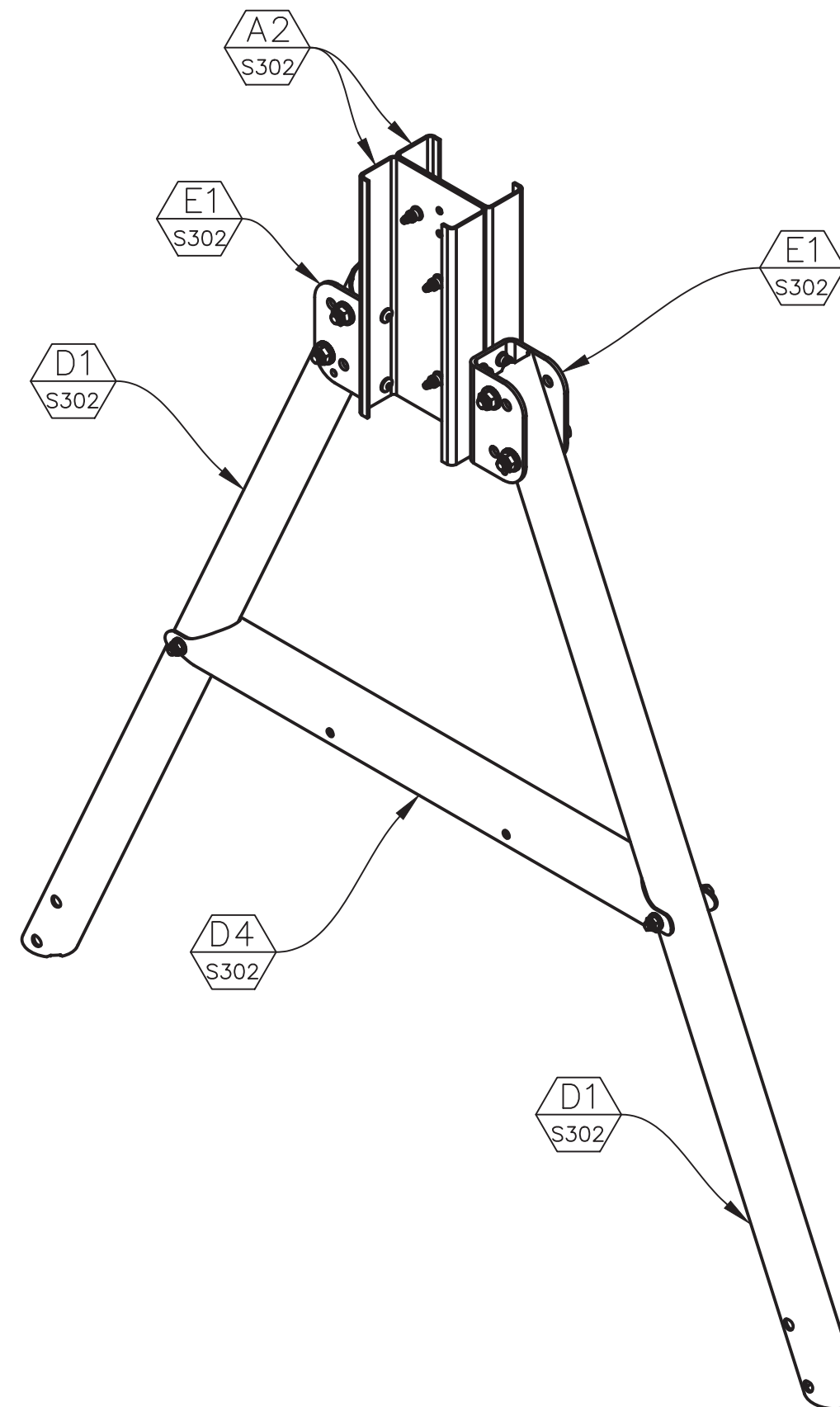


D4 SIDE / PROFILE VIEW: DAMPER MOUNTING TUBE

STRENGTH: MIN. YIELD (Fy): 80 KSI.
G90 GALV COATING OR EQUIVALENT



A2 SIDE / PROFILE VIEW: A-FRAME TOP ASSEMBLY ROLLED BEAM (CEE)



A5 ISO VIEW: STANDARD/DAMPER PIER

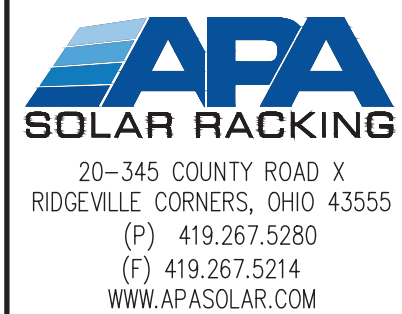
A1 A-FRAME ASSEMBLY FOR SHIPPING

CUSTOMER



SEA OAK CAPITAL
3320 CARDINAL DR., P.O. BOX 644318
VERO BEACH, FL 32964
(P) 772.633.2875

RACKING PROVIDER



RACKING TYPE

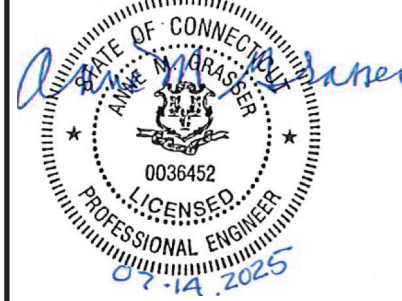


ENGINEER OF RECORD



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PROFESSIONAL SEAL/STAMP



SITE NAME: MADISON SOLAR
STATE: MADISON, CT 06443

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	6/18/2025

APPROVED

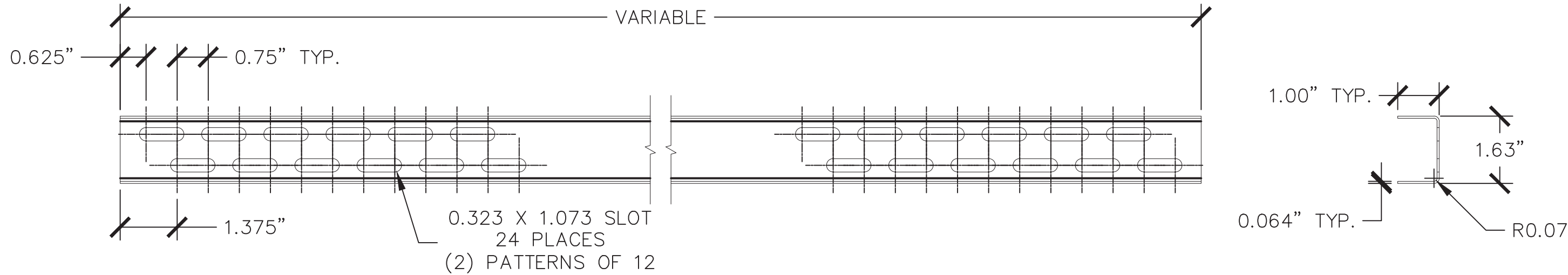
DRAWN	REVIEWED	APPROVED	SIZE
JJO	LB	JDI	D
SHEET NAME			
DAMPER PIER COMPONENTS			
PROJECT NUMBER			
250583			
DRAWING NUMBER		REV.	
S.302		A	

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

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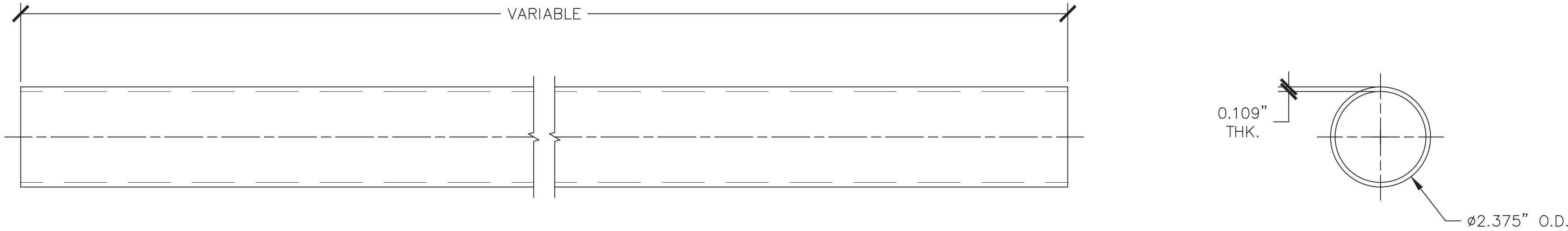
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STRENGTH: MIN. YIELD (Fy): 50 KSI.



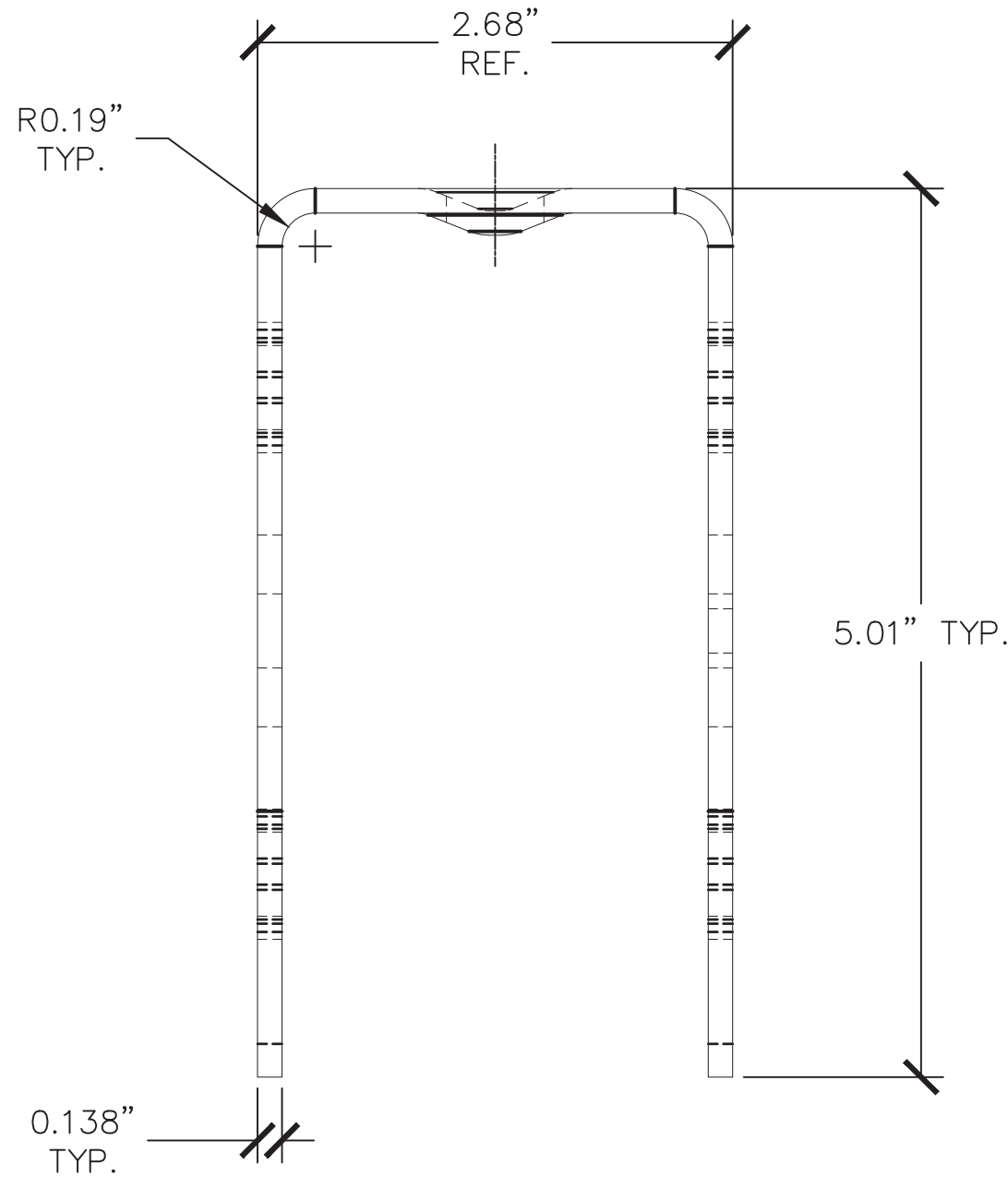
D1 SIDE / PROFILE VIEW: CROSS BRACE

STRENGTH: MIN. YIELD (Fy): 55 KSI.



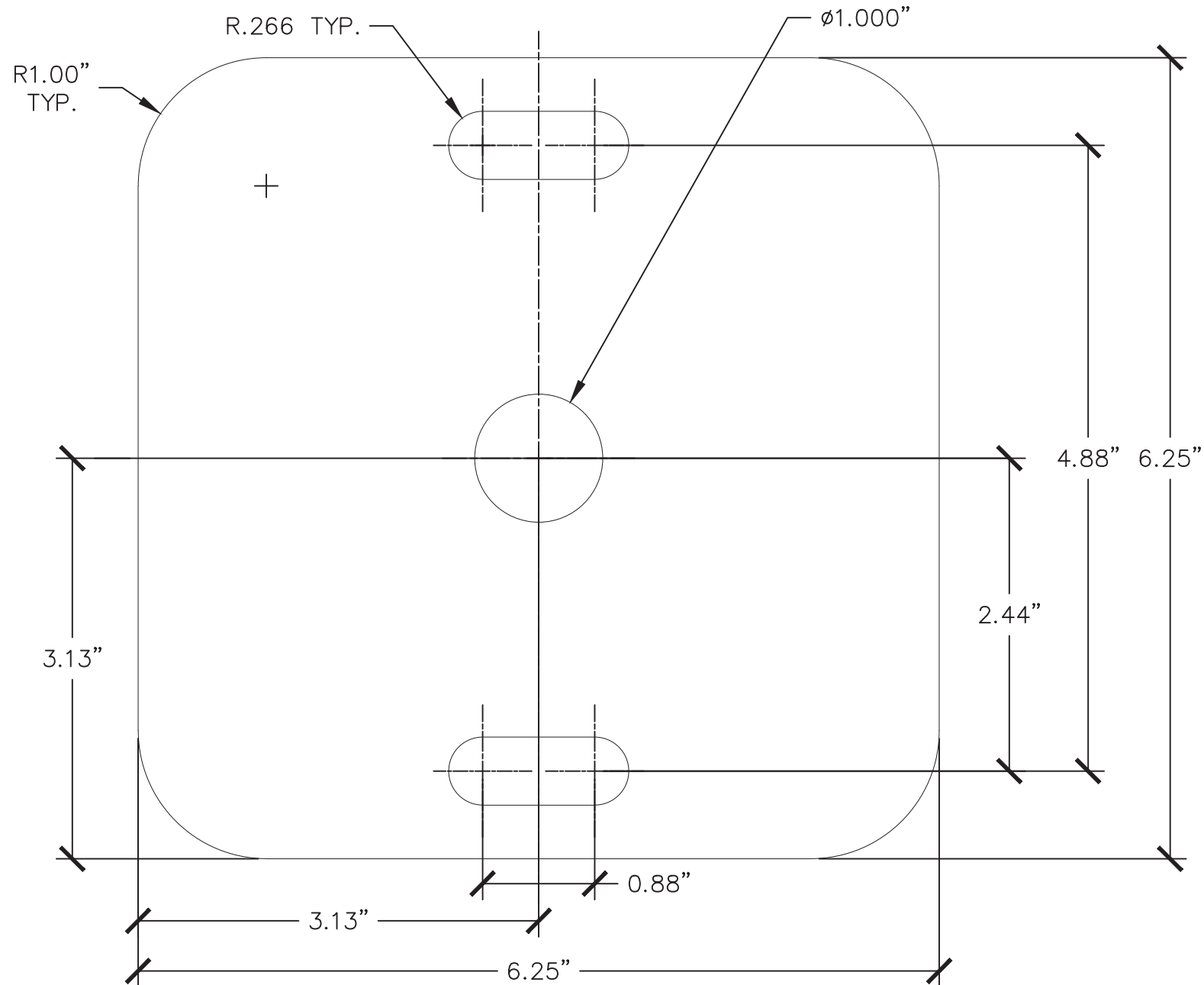
C1 SIDE / PROFILE VIEW: FOUNDATION ATTACHMENT TUBE

STRENGTH: MIN. YIELD (Fy): 50 KSI.



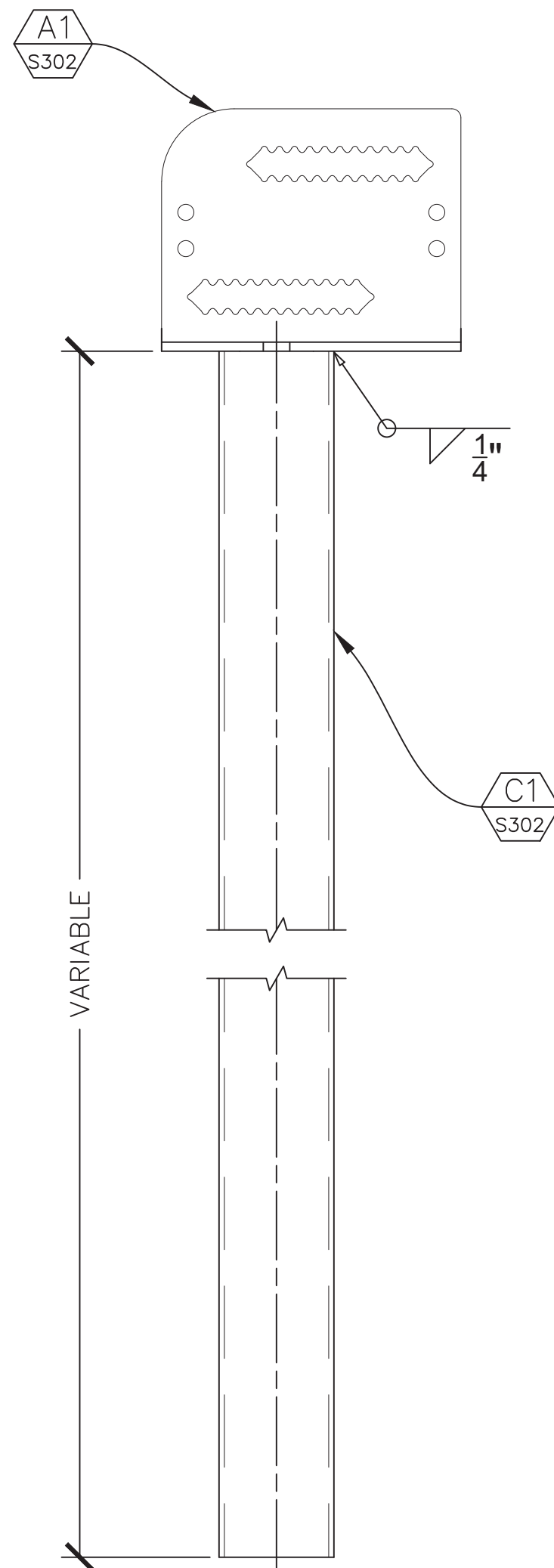
A1 SECTION: FOUNDATION ATTACHMENT (STYLE 2)

MATERIAL: A36 CF STR. STL.
STRENGTH: MIN. YIELD (Fy): 36 KSI.
THICKNESS: 0.25"



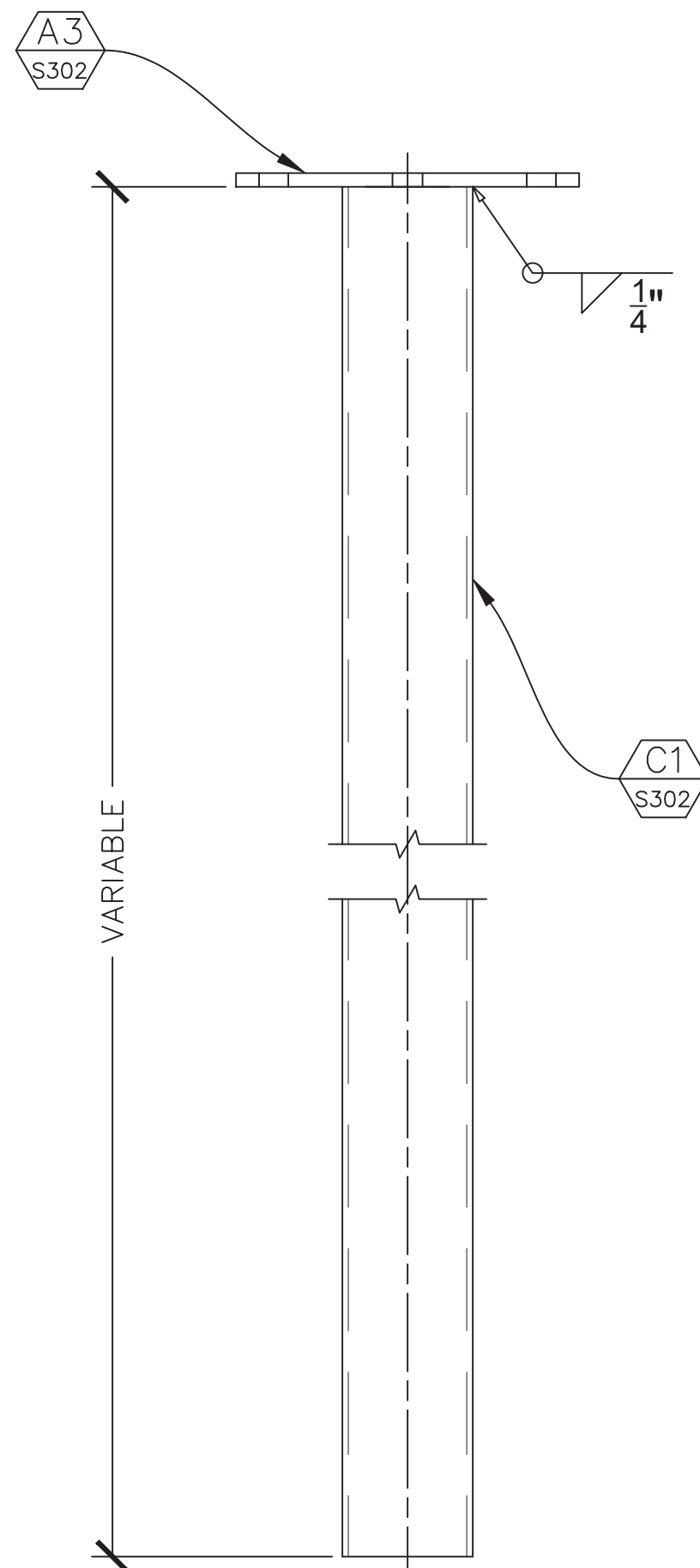
A3 TOP VIEW: FOUNDATION ATTACHMENT (STYLE 1)

GRADE 55 GALV COATING OR EQUIVALENT



A5 FOUNDATION TUBE ASSEMBLY: (STYLE 2)

GRADE 55 GALV COATING OR EQUIVALENT



A6 FOUNDATION TUBE ASSEMBLY: (STYLE 1)

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SEA OAK CAPITAL

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RACKING PROVIDER

APA SOLAR RACKING

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RACKING TYPE

A-FRAME

ENGINEER OF RECORD

the jdi group
architects & engineers

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PROFESSIONAL SEAL/STAMP

STATE OF CONNECTICUT
JAMES J. JAMES
0038452
PROFESSIONAL ENGINEER
04-14-2025

SITE NAME: MADISON SOLAR
STATE: MADISON, CT 06443

SHEET REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	6/18/2025

APPROVED

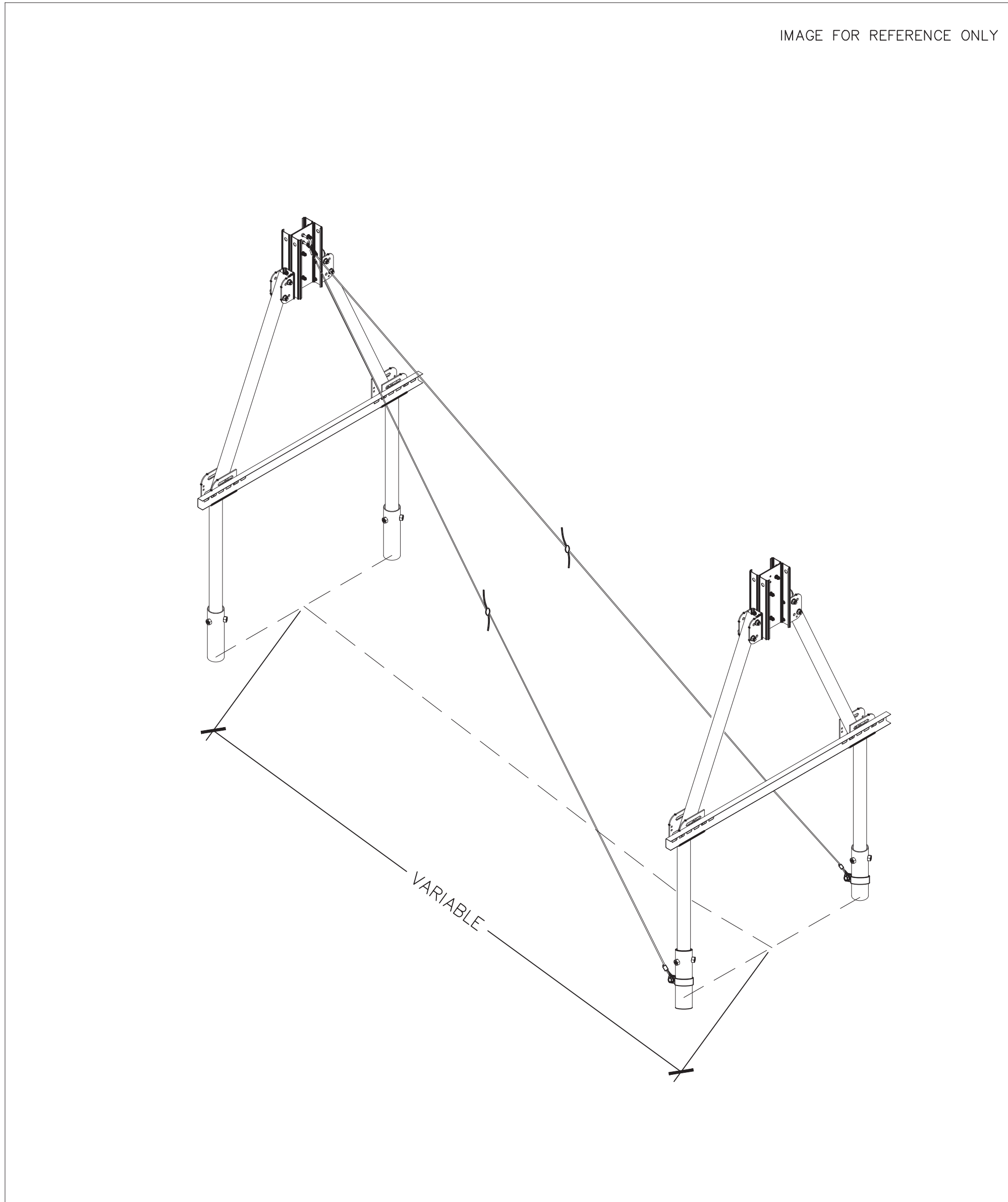
DRAWN	REVIEWED	APPROVED	SIZE
JJO	LB	JDI	D
SHEET NAME			
A-FRAME COMPONENTS			
PROJECT NUMBER			
250583			
DRAWING NUMBER			REV.
S.303			A

SITE NAME: MADISON SOLAR STATE: MADISON, CT 06443			
SHEET REVISIONS			
REV.	DESCRIPTION	DATE	
A	INITIAL RELEASE	6/16/2025	
APPROVED			
DRAWN	REVIEWED	APPROVED	SIZE
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SHEET NAME			
CONNECTIONS OVERVIEW			
PROJECT NUMBER			
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DRAWING NUMBER			REV.
S.400			A

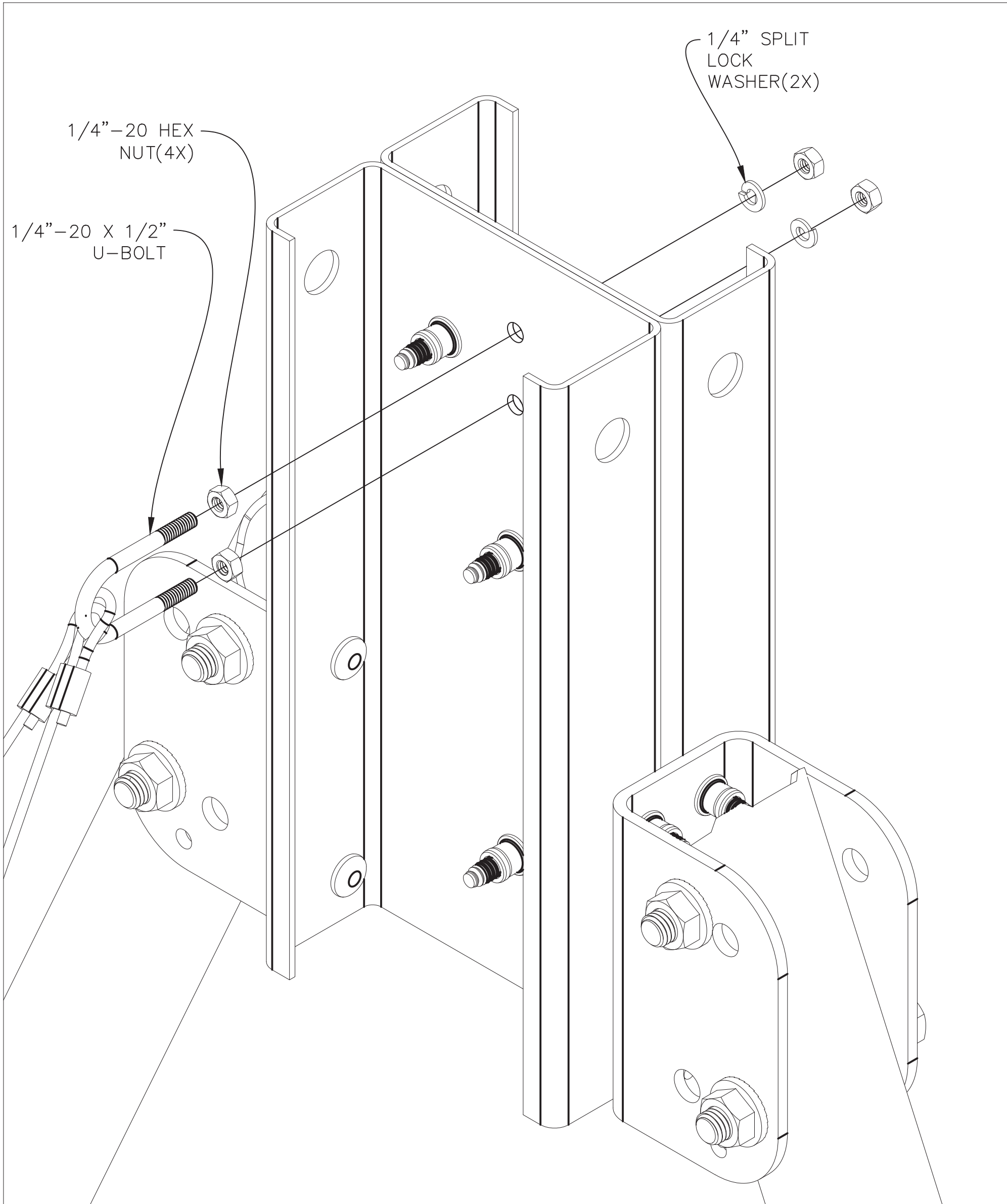
SCALE IS REDUCED WHEN SHEET SIZE IS 11" x 17"

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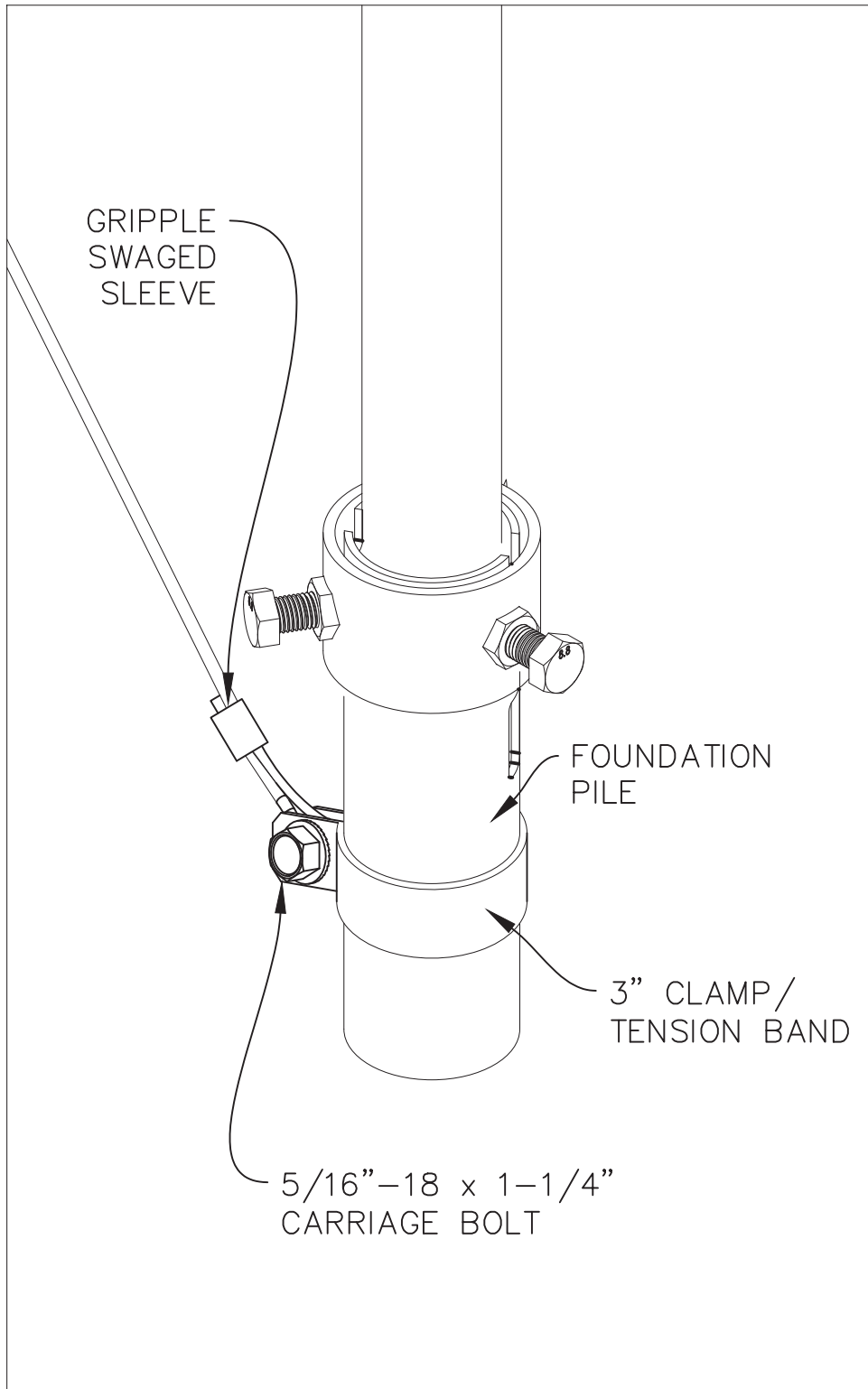
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C1 ISO VIEW: TYPICAL SEISMIC PIER BRACING

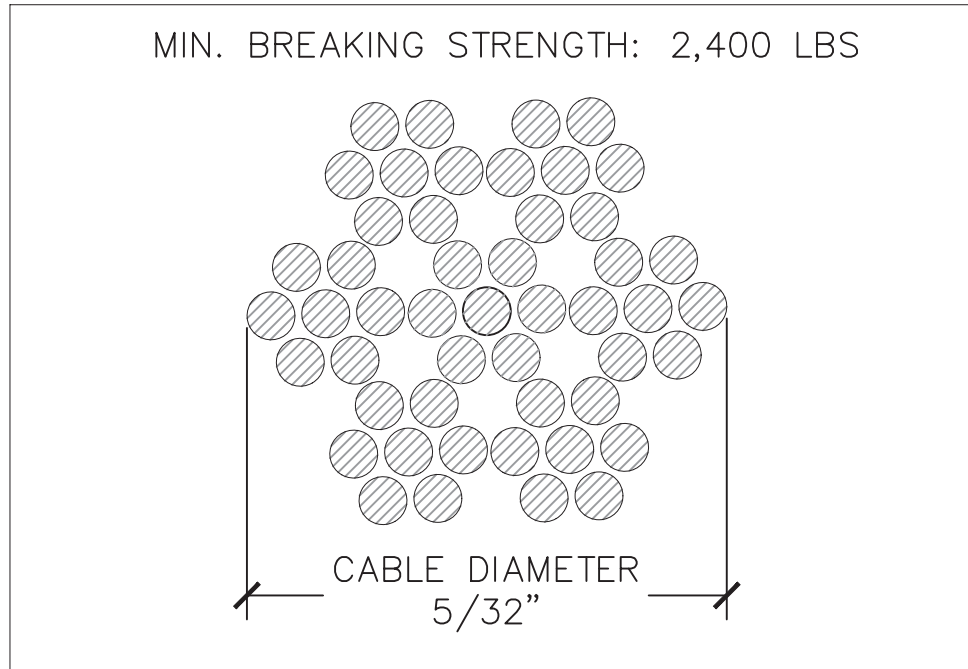


C3 DETAIL: CABLE TO U-BOLT CONNECTION

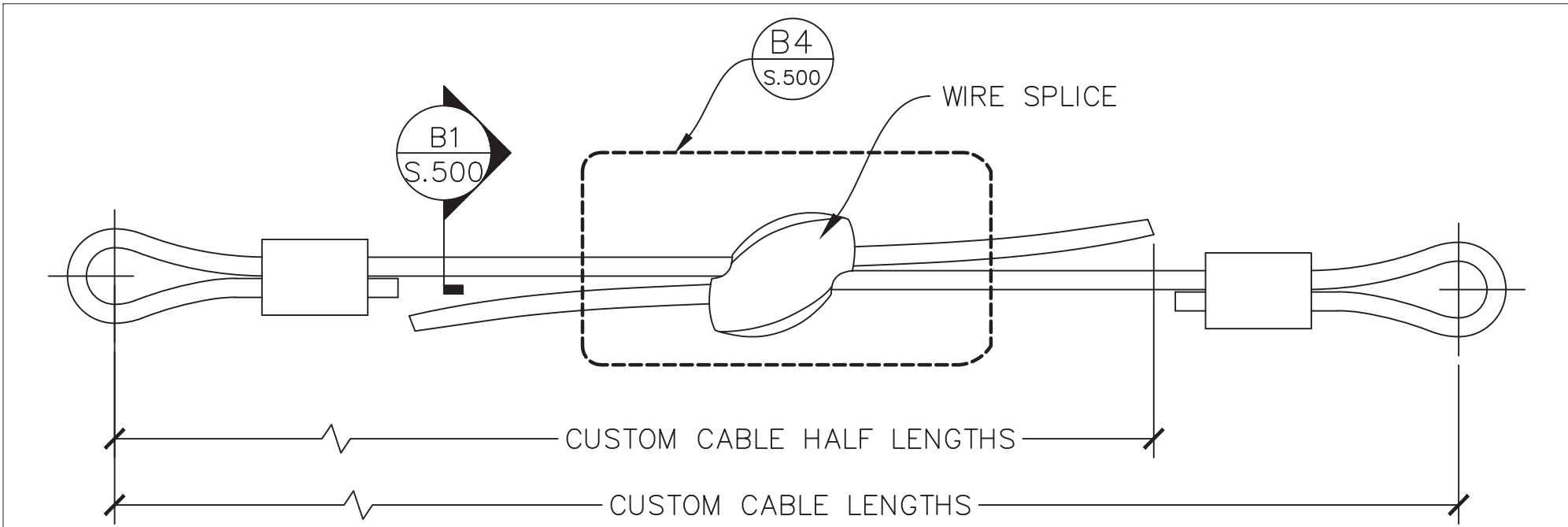


C5 DETAIL: CABLE TO FOUNDATION

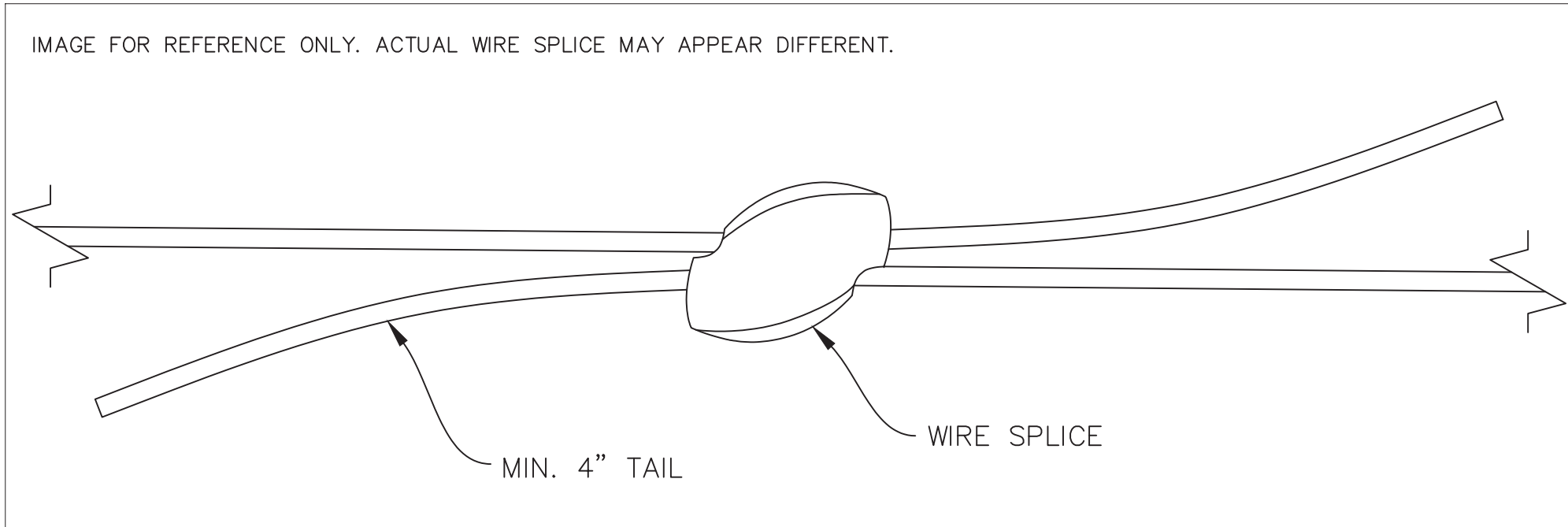
- NOTES:
- NORTH/SOUTH CABLE BRACE TO BE INSTALLED ON THE TWO PIERS CLOSEST TO THE MOTOR PIER.
 - THE TWO PIERS CLOSEST TO THE MOTOR PIER SHALL HAVE SEISMIC BUSHINGS INSTALLED.
 - CABLE BRACES TO BE CONNECTED TO THE FOUNDATION OF THE ADJACENT A-FRAME AS SHOWN IN VIEW A1.
 - MINIMUM CABLE BREAKING STRENGTH DETERMINED BY PROJECT SPECIFIC STRUCTURAL CALCULATIONS. SEE VIEW B1 ON S.500 SHEET.
 - BRACE CLAMPS TO BE LOCATED NO FURTHER THAN 7 INCHES FROM MIDPLANE OF CLAMP TO NOMINAL LEVEL GROUND.
 - 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.
 - CABLE BRACES WILL TYPICALLY BE RECEIVED AS HALF LENGTHS WITH ONE END MANUFACTURED WITH A LOOP AND THE OTHER END FREE. TWO CABLES ARE USED TO CONSTRUCT A FULL LENGTH CABLE. THESE SHOULD BE FIELD FIT WITH A WIRE SPLICE AND ADJUSTED TO THE CORRECT LENGTH AND TENSION UPON INSTALLATION.
 - ENSURE CABLE IS CLEANLY CUT TO ENSURE PROPER ASSEMBLY.
 - ENSURE CABLE ENTERS CORRECT APERTURE OF WIRE SPLICE. THE FINAL LOOP SHOULD ONLY BE ABLE TO GET TIGHTER UNDER LOAD, NOT LOOSER.
 - DEAD END OF FIELD MADE CABLE MUST EXTEND MIN. 4" FROM THE END OF THE SWAGED SLEEVE.
 - LOOPED END RECOMMENDED TO EXTEND 3" FROM WIRE SPLICE TO CLAMP BOLT.
 - WHEN PROPERLY INSTALLED, FIELD MADE CABLE LOOPS USING THE PROVIDED WIRE SPLICES AND METHOD PRESENTED HERE, ARE CAPABLE OF ACHIEVING ADEQUATE BREAKING STRENGTH.
 - CABLES SHALL BE INSTALLED TAUT.



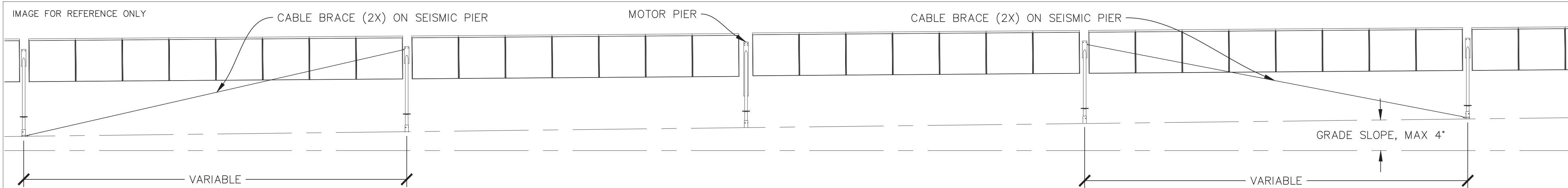
B1 SECTION: CABLE BRACE



B2 PART: CABLE BRACE



B4 CONNECTION: WIRE SPLICE



NOTE: CABLE BRACING APPLIES FOR ALL TTH

A1 VIEW: SEISMIC PIER CABLE BRACE

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(P) 419.267.5280
(F) 419.267.5214
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RACKING TYPE

A-FRAME

ENGINEER OF RECORD

the ed group
architects & engineers

360 W. DUSSEL DR.
MAUMEE, OH 43537
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PROFESSIONAL SEAL/STAMP

STATE OF OHIO
008462
PROFESSIONAL ENGINEER
07-1A-2025

SITE NAME: MADISON SOLAR
STATE: MADISON, CT 06443

SHEET REVISIONS

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	6/18/2025

APPROVED

DRAWN: JJO
REVIEWED: LB
APPROVED: JDI
SIZE: D

SHEET NAME
FULL ROW BRACING OVERVIEW

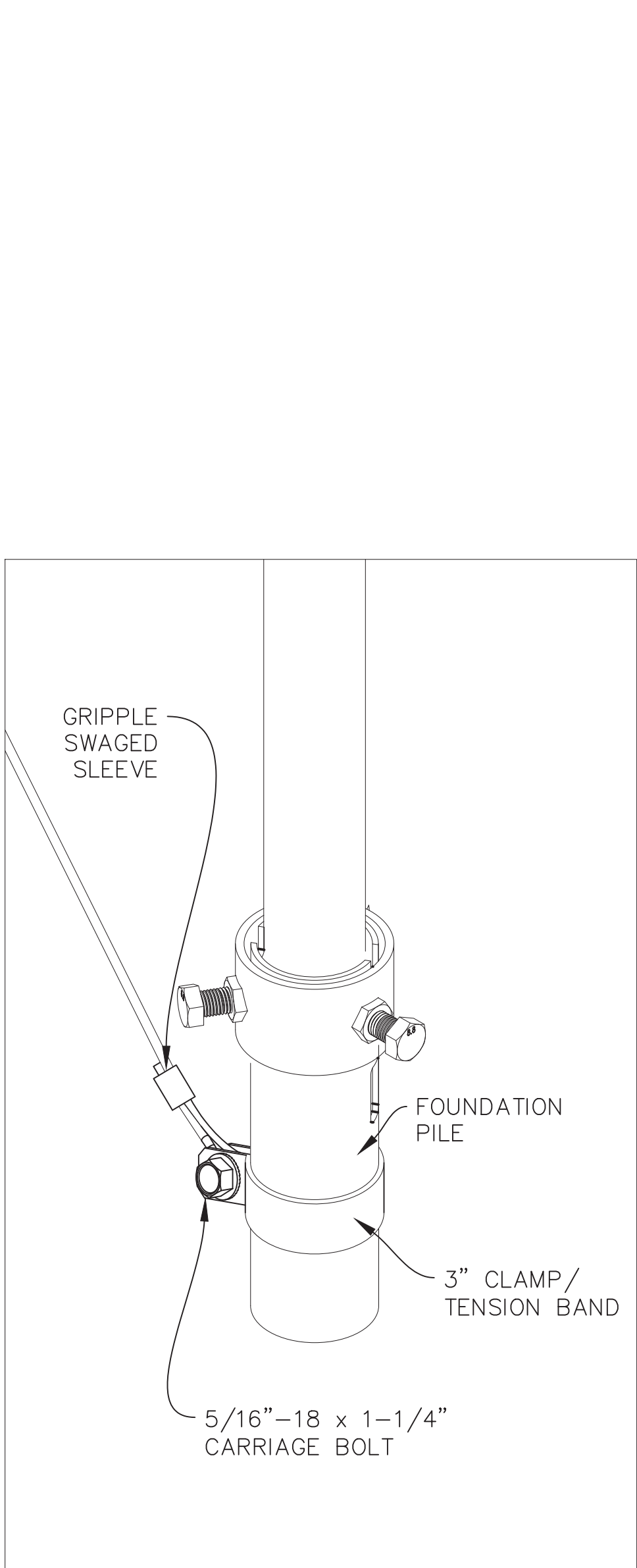
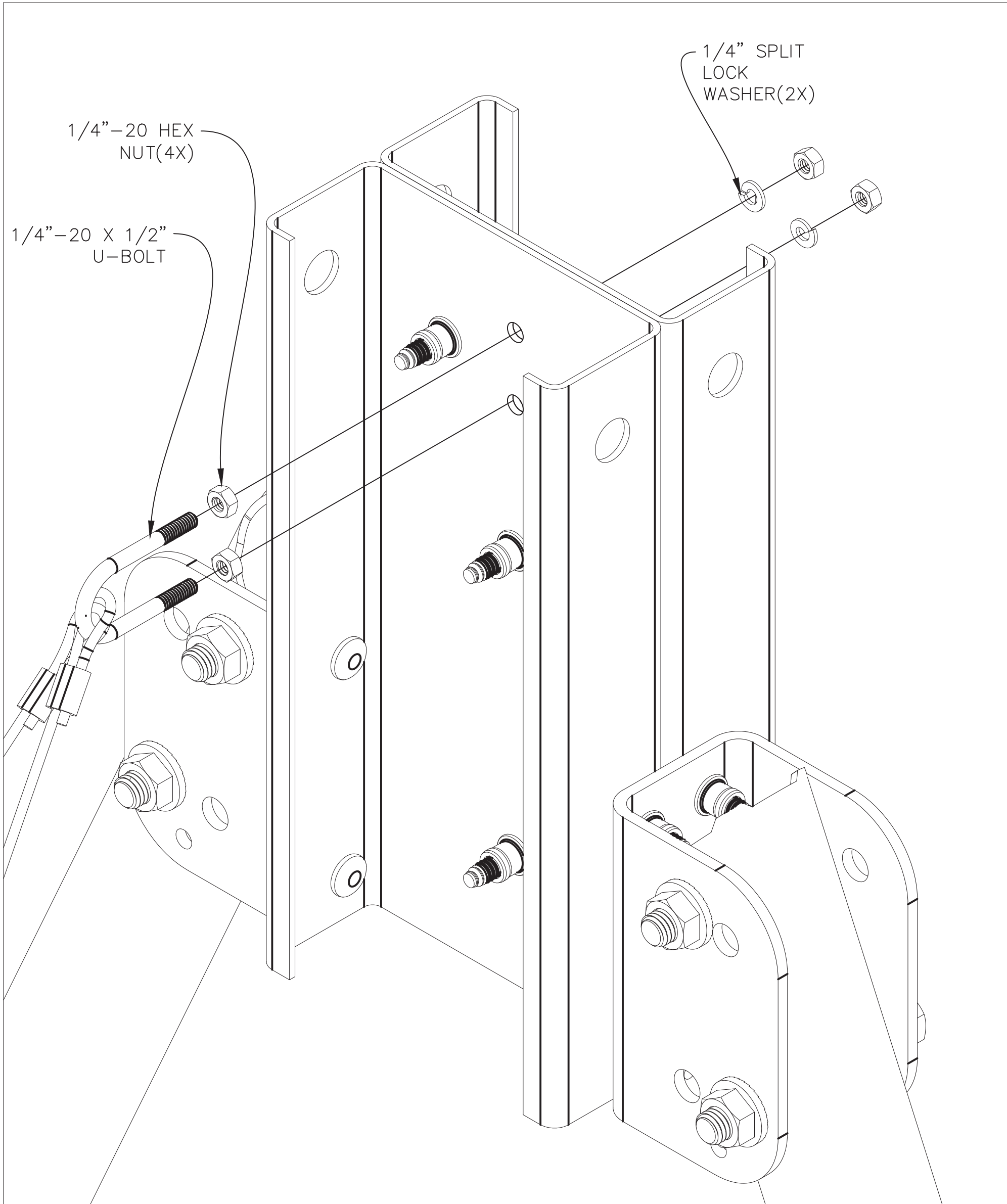
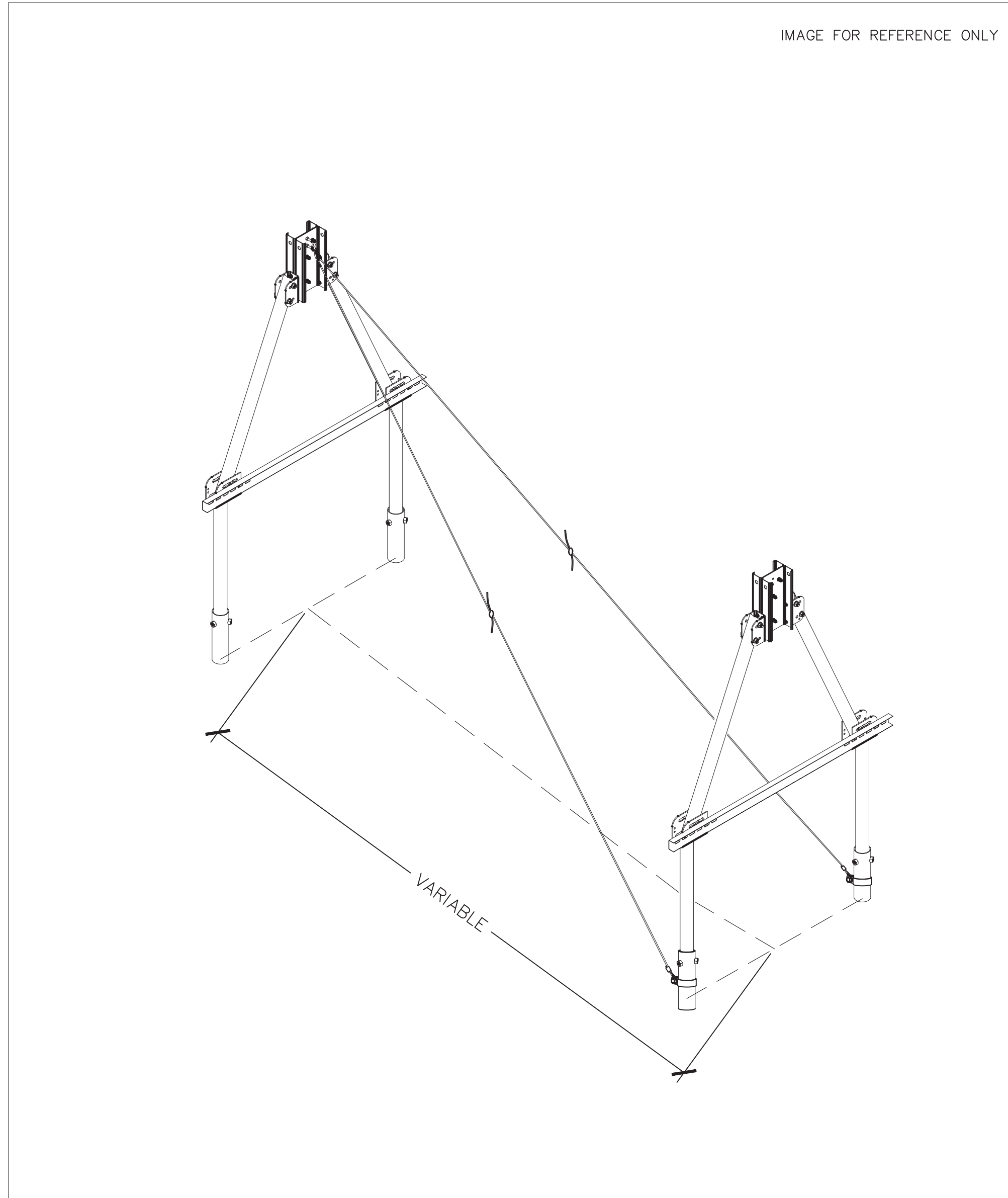
PROJECT NUMBER
250583

DRAWING NUMBER
S.500

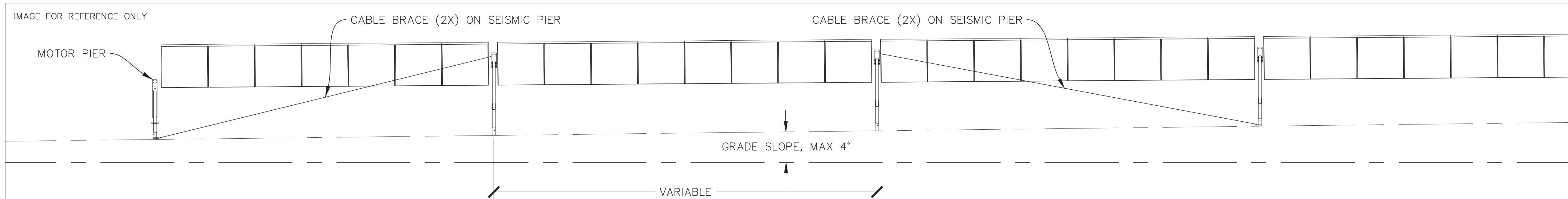
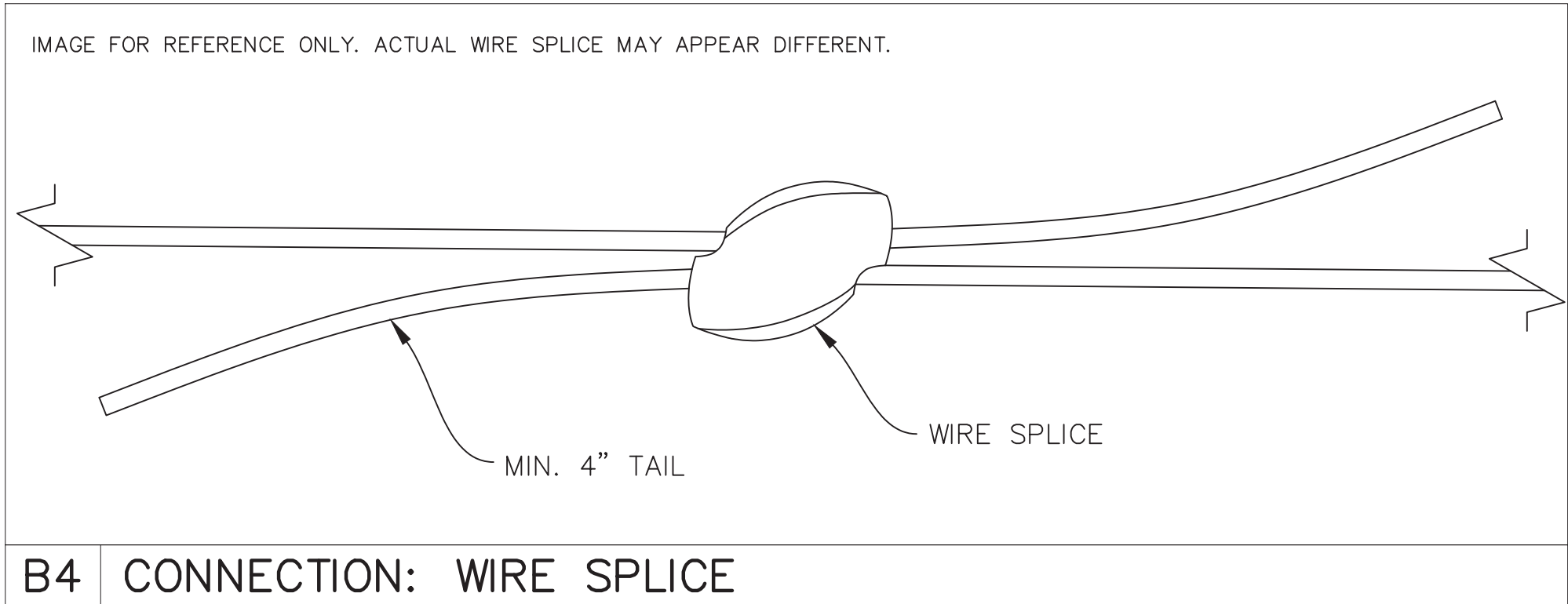
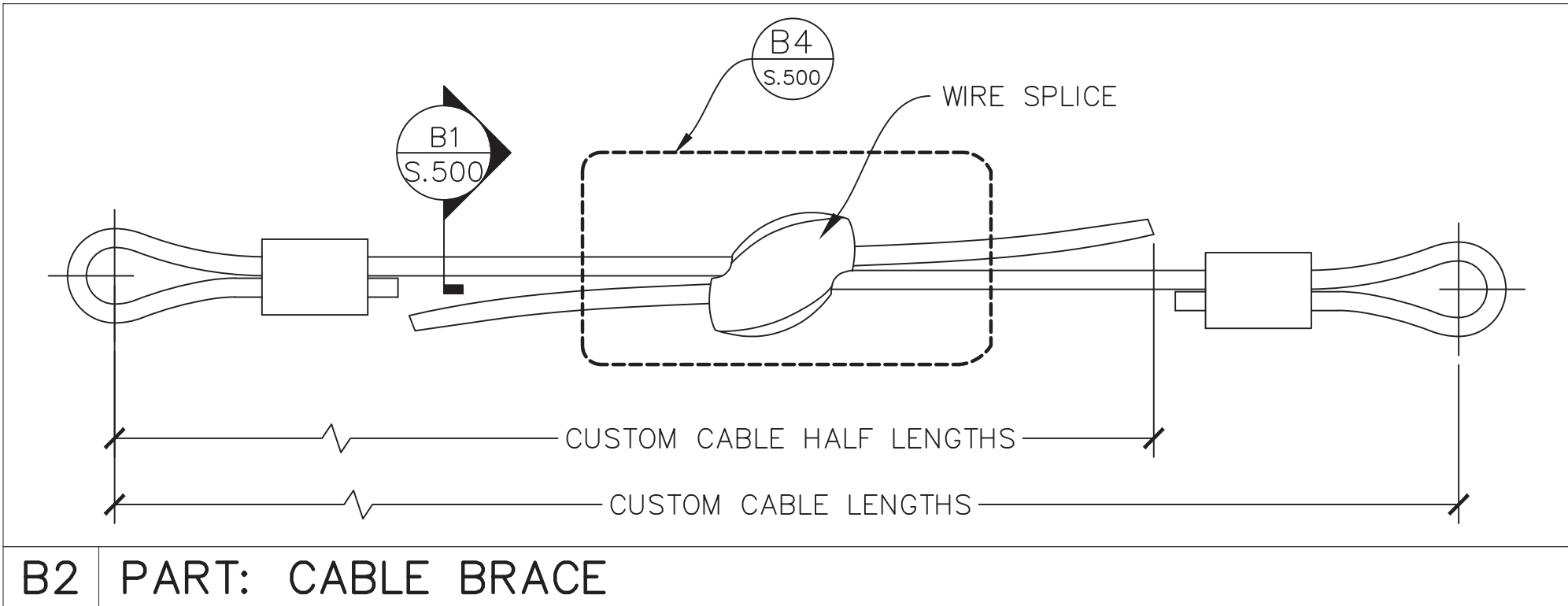
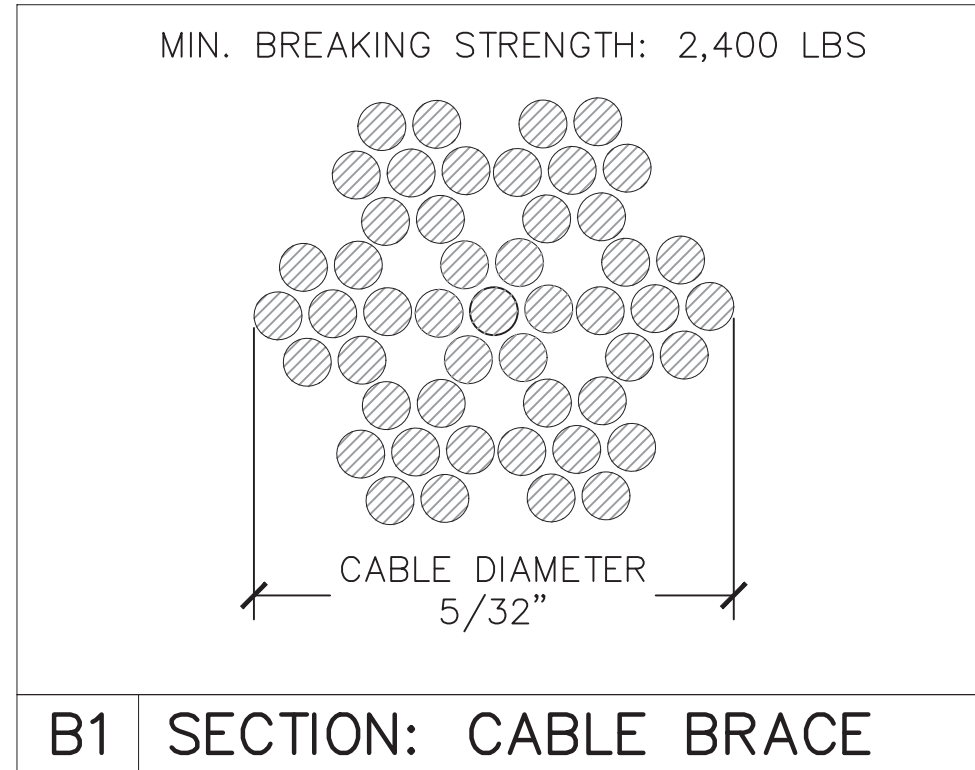
REV.
A

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

0/20/2025 11:41:54 AM J250100 21:25:31 E:\shared_dwg\dwg\proj\proj\2025\250583_madison.ctb madison.ctb and structural analysis\proj\250583_madison.ctb - frame_line_and_top.dwg



- NOTES:
- NORTH/SOUTH CABLE BRACE TO BE INSTALLED ON THE TWO PIERS CLOSEST TO THE MOTOR PIER.
 - THE TWO PIERS CLOSEST TO THE MOTOR PIER SHALL HAVE SEISMIC BUSHINGS INSTALLED.
 - CABLE BRACES TO BE CONNECTED TO THE FOUNDATION OF THE ADJACENT A-FRAME AS SHOWN IN VIEW A1.
 - MINIMUM CABLE BREAKING STRENGTH DETERMINED BY PROJECT SPECIFIC STRUCTURAL CALCULATIONS. SEE VIEW B1 ON S.500 SHEET.
 - BRACE CLAMPS TO BE LOCATED NO FURTHER THAN 7 INCHES FROM MIDPLANE OF CLAMP TO NOMINAL LEVEL GROUND.
 - 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.
 - CABLE BRACES WILL TYPICALLY BE RECEIVED AS HALF LENGTHS WITH ONE END MANUFACTURED WITH A LOOP AND THE OTHER END FREE. TWO CABLES ARE USED TO CONSTRUCT A FULL LENGTH CABLE. THESE SHOULD BE FIELD FIT WITH A WIRE SPLICE AND ADJUSTED TO THE CORRECT LENGTH AND TENSION UPON INSTALLATION.
 - ENSURE CABLE IS CLEANLY CUT TO ENSURE PROPER ASSEMBLY.
 - ENSURE CABLE ENTERS CORRECT APERTURE OF WIRE SPLICE. THE FINAL LOOP SHOULD ONLY BE ABLE TO GET TIGHTER UNDER LOAD, NOT LOOSER.
 - DEAD END OF FIELD MADE CABLE MUST EXTEND MIN. 4" FROM THE END OF THE SWAGED SLEEVE.
 - LOOPED END RECOMMENDED TO EXTEND 3" FROM WIRE SPLICE TO CLAMP BOLT.
 - WHEN PROPERLY INSTALLED, FIELD MADE CABLE LOOPS USING THE PROVIDED WIRE SPLICES AND METHOD PRESENTED HERE, ARE CAPABLE OF ACHIEVING ADEQUATE BREAKING STRENGTH.
 - CABLES SHALL BE INSTALLED TAUT.



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STATE OF CONNECTICUT
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SHEET REVISIONS

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	6/18/2025

APPROVED

DRAWN: JJO
REVIEWED: LB
APPROVED: JDI
SIZE: D

SHEET NAME: PARTIAL ROW BRACING OVERVIEW

PROJECT NUMBER: 250583

DRAWING NUMBER: S.501
REV: A