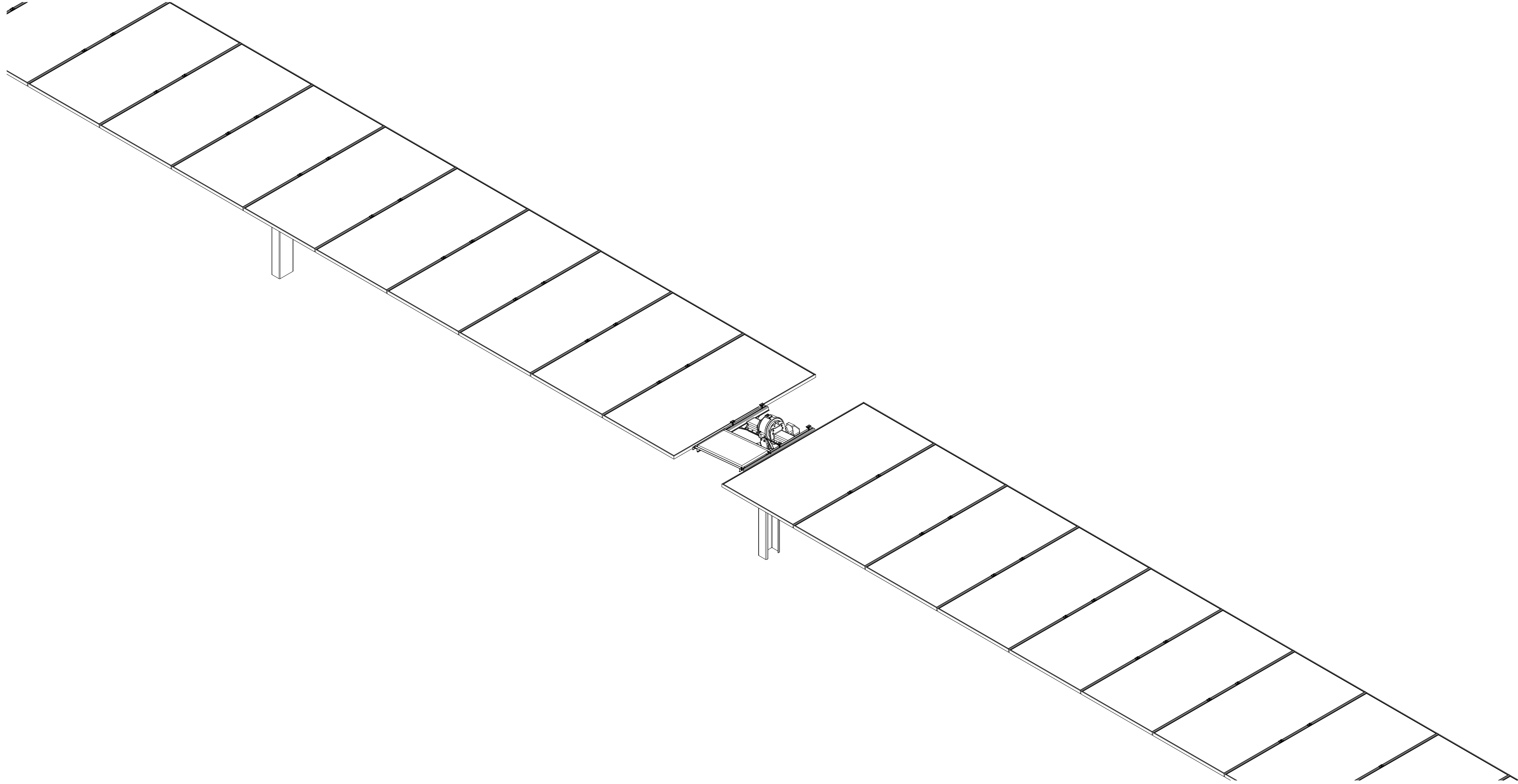


OMCO SOLAR ORIGIN SINGLE AXIS TRACKER FOR GREENSKIES



DRAWING NUMBER	DRAWING DESCRIPTION
OS1.0	COVER SHEET
OS1.1	GENERAL STRUCTURAL NOTES
OS1.2A	MODULE CUT SHEET
OS1.2B	MODULE CUT SHEET
OS1.3	FOUNDATIONS
OS1.4	COLOR-CODED PILE PLAN
OS2.0	GENERAL LAYOUT
OS2.1	TRACKER STRUCTURAL REQUIREMENTS
OS3.0	TYPICAL SECTION/ BEARING & DRIVE DETAILS
OS3.1	MODULE MOUNTING DETAILS
OS4.0	TRACKER COMPONENT SPECIFICATIONS
OS4.1	TRACKER COMPONENT SPECIFICATIONS
OS4.2	DAMPER MOUNT DETAILS
OS4.4	TORQUE TUBE SPLICE DETAILS
OS5.0	TRACKER ELECTRONIC COMPONENT SPECIFICATIONS

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OMCO ORIGIN® SINGLE-AXIS TRACKER
 ARTILLERY ROAD
 ARTILLERY RD
 WOODBURY, CT 06798

REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
0	01/28/26	JDL		INITIAL RELEASE
1	03/12/26	JDL		CUSTOMER COMMENTS
2	04/08/26	JDL		UPDATED SNOW LOAD INFORMATION

PROJECT NAME:
ARTILLERY ROAD

PROJECT NUMBER:
10792769000

DRAWING NAME:
COVER SHEET

DRAWING NUMBER:
OS1.0

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 4550 W. WATKINS ST.
 PHOENIX, AZ 85043
 www.omcosolar.com

GENERAL STRUCTURAL NOTES:

- THE TERM "CONTRACTOR" AS REFERRED IN THIS DOCUMENT SHALL MEAN GREENSKIES CLEAN ENERGY. THE TERM "PROJECT OWNER" AS REFERRED TO IN THIS DOCUMENT SHALL BE DETERMINED BY GREENSKIES CLEAN ENERGY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE APPROVED STAMPED CONSTRUCTION DOCUMENT IN ITS ENTIRETY PRIOR TO BIDDING THE PROJECT, START OF FABRICATION, ORDERING HARDWARE & MISCELLANEOUS STEEL, START OF CONSTRUCTION AND ASSEMBLY.
- IF A CONFLICT BETWEEN DRAWING DETAILS, SECTIONS, PLANS AND NOTES IS DISCOVERED, NOTIFY OMCO SOLAR IMMEDIATELY IN WRITING FOR CLARIFICATION AND/OR FOR APPROPRIATE RESPONSE PRIOR TO PROCEEDING WITH CONSTRUCTION AND/OR ASSEMBLY OF THE RACKING SYSTEM.
- IN THE EVENT A DRAWING DISCREPANCY AND/OR DISCREPANCIES IN MATERIAL RECEIVED IS ENCOUNTERED OR DISCOVERED, NOTIFY OMCO SOLAR IMMEDIATELY IN WRITING FOR CLARIFICATION AND/OR FOR APPROPRIATE RESPONSE PRIOR TO PROCEEDING WITH CONSTRUCTION AND/OR ASSEMBLY OF THE RACKING SYSTEM.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL CONSTRUCTION WORK, RACKING ASSEMBLIES AND INSTALLATIONS ARE IN ACCORDANCE WITH THE LATEST APPROVED STAMPED CONSTRUCTION DOCUMENTS.
- MEANS AND METHOD OF INSTALLATION, ASSEMBLY AND CONSTRUCTION SEQUENCES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR/INSTALLER TO ENSURE PROPER TECHNIQUES ARE EMPLOYED AND TEMPORARY SHORING AND BRACING ARE PROVIDED FROM START TO COMPLETION OF THE PROJECT CONSTRUCTION PER APPROVED STAMPED CONSTRUCTION DOCUMENTS.
- ANY WORK COMPLETED DEVIATING FROM THE CONSTRUCTION DOCUMENT SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL LATEST DRAWINGS ARE USED AND DISTRIBUTED TO ALL INVOLVED IN THE PROJECT AND SUBCONTRACTORS.
- THE PROJECT OWNER SHALL TAKE ALL NECESSARY MEASURES TO PREVENT SOIL EROSIONS, WATER PONDING AND FLOODING AROUND PILES OR IN THE VICINITY.
- UNLESS SHOWN, DETAILED OR NOTED IN THE CONSTRUCTION DOCUMENT, ANY FIELD MODIFICATIONS, DRILLING, FABRICATION, REPAIRS, DEVIATION AND ADJUSTMENTS IS PROHIBITED WITHOUT THE WRITTEN APPROVAL OF OMCO SOLAR.
- WHERE MEMBER CORROSION PROTECTION IS COMPROMISED DURING STAGING, FIELD HANDLING, CONSTRUCTION, ASSEMBLY, ETC. CONTRACTOR SHALL REPAIR THE DAMAGE PER APPROVED FIELD REPAIR RECOMMENDATIONS PER OMCO SOLAR'S INSTALLATION MANUAL(S).
- NOTIFY OMCO SOLAR IMMEDIATELY OF ANY FIELD ISSUES THAT MAY BE ENCOUNTERED DUE TO ARISE RELATING TO STRUCTURAL DAMAGE AND/OR CONSTRUCTION CHALLENGES DUE TO INCORRECT INFORMATION.
- THE CONSTRUCTION AND FOUNDATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED BUILDING CODES AND STANDARDS AND THE LOCAL BUILDING DEPARTMENT "AUTHORITY HAVING JURISDICTIONS" AMENDMENTS.
- IT IS THE OWNER'S RESPONSIBILITY TO ORDER ANY SPARE PARTS FOR THE PURPOSE OF REPAIRS OR REPLACEMENT AFTER PROJECT COMPLETION AT THE OWNER'S EXPENSE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SAFE WORKING CONDITIONS EXIST AND SAFE CONSTRUCTION TECHNIQUES ARE FOLLOWED AND ALL NECESSARY PRECAUTIONS ARE IN PLACE, ADDRESSED AND RESPECTED BY ALL PARTIES INVOLVED WITH THE CONSTRUCTION OF THE PROJECT AT ALL TIMES FROM START TO COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, COORDINATE ALL FIELD CONDITIONS WITH THE APPROVED STAMPED CONSTRUCTION DOCUMENTS PRIOR TO PROCEEDING WITH THE PROJECT CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE PROJECT OWNER TO NOTIFY THE CONTRACTOR OF ANY INVESTIGATIONS RELATED TO ANY KNOWN OBSTRUCTION OR UNANTICIPATED SITE CONDITIONS THAT MAY ALTER THE GROUND MOUNT STRUCTURE DESIGN OR MAY HAVE AN ADVERSE EFFECT ON THE PROJECT CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CORRECT SOLAR MODULES ARE PROVIDED AND ASSEMBLED PER MODULE MANUFACTURER'S INSTALLATION MANUAL. THIS SET OF DRAWINGS, AND LATEST OMCO SOLAR FIELD FAST INSTALLATION MANUAL PROVIDED.
- FIELD CUTTING OR WELDING OF COLD-FORM STRUCTURAL ELEMENTS IS NOT REQUIRED NOR PERMITTED WITHOUT THE WRITTEN APPROVAL BY OMCO SOLAR. IN ANY EVENT WHERE FIELD CUTTING AND/OR WELDING IS NECESSARY OR DESIRED, IT IS CRITICAL THAT OMCO SOLAR BE NOTIFIED IMMEDIATELY IN WRITING PRIOR TO FIELD CUTTING OR WELDING.

DESIGN CODES, DATA & CRITERIA

THE SOLAR STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2022 CONNECTICUT BUILDING CODE AND ASCE 7-16.

COLD FORMED STEEL DESIGN STRUCTURAL ELEMENTS SHALL BE PER AISI NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2016 EDITION

STRUCTURE RISK CATEGORY: I

WIND:

BASIC WIND SPEED (3 SECOND GUST): 110 MPH

WIND EXPOSURE CATEGORY: C

WIND TUNNEL TEST AND WIND LOAD ANALYSIS REPORT: PER CPP PROJECT 9795

WIND DESIGN PRESSURES: VARIES WITH MEMBERS AND COMPONENTS

WIND DIRECTIONALITY FACTOR: Kd = 0.85

TOPOGRAPHIC FACTOR: Kzt = 1.00

SEISMIC:

SEISMIC IMPORTANCE FACTOR, I = 1.00

DESIGN SPECTRAL RESPONSE ACCELERATIONS, SDS: = 0.203g, SD1: = 0.087g

SEISMIC DESIGN CATEGORY: = D

BASIC SEISMIC-FORCE-RESISTING SYSTEMS: = CANTILEVER COLUMN

SEISMIC RESPONSE COEFFICIENT Cs: = 0.162W

SITE CLASS: D

RESPONSE MODIFICATION COEFFICIENTS: R = 1.25

ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

SNOW:

GROUND SNOW LOAD: (Pg) = 35 PSF

SLOPE FACTOR: (Cs) = 0.37

SNOW EXPOSURE FACTOR: (Ce) = 1.0

SNOW LOAD IMPORTANCE FACTOR: (I) = 0.8

THERMAL FACTOR: (Ct) = 1.2

FLAT ROOF SNOW LOAD: (Pf) = 30

DESIGN SNOW LOAD: (Ps) = 11.15

REFERENCE CODES AND STANDARDS (SHALL BE LATEST U.N.O)

ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS

ANSI - AMERICAN NATIONAL STANDARD INSTITUTE

ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASCE - AMERICAN SOCIETY OF CIVIL ENGINEERS

AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION

AISI - AMERICAN IRON AND STEEL INSTITUTE

IBC - INTERNATIONAL BUILDING CODE

SEAO PV1-2012 AND SEAO PV-2 2012

DESIGN CRITERIA:

GROUND MOUNT TILT ANGLE IS 5-60 DEGREES

MODULE = VARIES

MODULE ORIENTATION = PORTRAIT

MATERIAL SPECIFICATION NOTES:

- COLD-FORMED STEEL: ASTM A653-17 SS OR HSLA - MIN. YIELD AND TENSILE STRENGTHS SHOWN ON FRAMING PLANS.
- STEEL PLATES SHALL BE PER ASTM A36, 36 KSI STEEL.
- MATERIAL GALVANIZATION MINIMUMS: POSTS/PILES - G235 HARDWARE - 15 MICRON ALL OTHER STEEL - G90
- M8 FASTENERS: DIN933 CLASS 8.8.
- FLANGE HEAD: HEX RIV NUT, OPEN END, STEEL THREAD PROOF LOAD MEETS CLASS 8 PER ISO 898-02.
- M8, M10, M12 AND M14 FLAT WASHERS: DIN125A AND/OR 3/8", 7/16", 1/2", AND USS F436 THRU-HARDENED.
- M10 AND M12 FASTENERS: DIN933/931 CLASS 8.8.
- M10 AND M12 HEX NUT: DIN934 CLASS 8.
- MODULE CLAMPS SHALL BE ALUMINUM 6063-T6.
- CLAMP SPACER SHALL BE ALUMINUM ASTM B221.
- BEARING CAST ALUMINUM SHALL BE A380 OR B390.

Assembly	ASSY	Inch	IN
Authority Having Jurisdiction	AHJ	Inside diameter	ID
Alternate	ALT	Interior	INT
Back to Back	B/B	Kilo Pounds	kips
Beam	BM	Kilowatt	kW
Beam End	BE	Lateral Brace	LB
Bearing	BRG	Left hand	LH
Between Centers	BC	Length	L
Bolt Circle	BTC	Lock Nut	LN
Both Faces	BFS	Lockwasher	LKWASH
Both Sides	BS	Long	LG
Bracket	BRKT	Material	MATL
Cap Screw	CAP SCR	Maximum	MAX
Cantilever	CANT'L	Mega Watts	MW
Cantilever East	CLE	Micrometer	um
Cantilever West	CLW	Millimeter	mm
Connection Bracket	CBL	Minimum	MIN
Long		Module	MOD
Connection Bracket Short	CBS	Module Clamp	MC
Center	CTR	Module Rail	MR
Centerline	C.L.	Multiple	MULT
Center to Center	C/C	North/South	NS
Circular	CIR	Not To Scale	NTS
Clear	CLR	Number	NO
Clockwise	CW	On Center	OC
Concrete	CONC	Outside Diameter	OD
Configuration	CONFIG	Outside Face	OF
Connection	Conn	Overall	OA
Construction	CP	Perpendicular	PERP
Package		Photovoltaics	PV
Continuous	CONT	Places	PLCS
Counterclockwise	CCW	Post/Pile	P
Decimal	DEC	Point	PT
Deep/Depth	DP	Pounds	LBS
Detail	DTL	Quantity	QTY
Diagonal Brace	DBL, DBU	Radial	RDL
Lower/Upper Dimension	DIM	Radius	RAD
Distance	DIST	Rectangle	RECT
Double	DBLE	Reference Line	REFL
Drawing	DWG	Required	REQD
Each	EA	Right Hand	RH
East/West Rack Beam	E/W RBT	Round	RND
Top, Mid, Low	E/W RBM	Screw	SCR
	E/W RBL	Scope of Work	SOW
Elevation	ELEV	Section	SECT
End to End	E/E	Set screw	SSCR
Equal	EQL	Sheet	SHT.
Equally spaced	EQLSP	Similar	SIM.
Elevation	ELEV	Single	SGL
Existing	EX.	Sleeve	SLV
Exterior	EXT	Slotted	SLTD
Embedment	EMBED	Socket	SKT
Face to Face	F/F	Socket head	SCH
Fastener	FSTNR	Square	SQ
Field Fast	F.F.	Square Meters	SQM
Fillet	FIL	Standard	STD
Foundation	FND	Steel	STL
		Surface	SURF
Gage	GA	Thick	THK
Ground Mount	GM	Thread	TRD
		Through	THRU
Hexagonal	HEX	Tilt Bracket	TB
Horizontal	HORIZ	To Be Determined	TBD
Hot Dipped Galvanzation	HDG	Top Of	T.O.
		Typical	TYP
		Unless Noted	UNO
		Otherwise	
		Vertical	VERT
		Watt	WT
		Wire Management	WM
		Work Point	W.P.

ABBREVIATIONS:



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WOODBURY, CT 06798

REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
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2	04/02/26	JDL		UPDATED SNOW LOAD INFORMATION

PROJECT NAME:
ARTILLERY ROAD

PROJECT NUMBER:
10792769000

DRAWING NAME:
GENERAL STRUCTURAL NOTES

DRAWING NUMBER:
OS1.1

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4550 W. WATKINS ST.
PHOENIX, AZ 85043
www.omcosolar.com

Project specific atmospheric loads (dead, snow, wind and seismic) have been calculated as prescribed by the latest locally accepted edition of the ASCE 7 (Minimum Design Loads and Associated Criteria for Buildings and Other Structures) Standard as interpreted by our internal Engineering Department and our Third-Party Engineer of Record for application to solar ground mount structures specifically. These project specific loads have been applied to the project racking structure, through the applicable load combinations, as prescribed by the latest locally accepted edition of the ASCE 7 Standard. Final custom project member sizes, quantities, spacings, connections and final pile embedment depths have been determined through structural analysis based specifically on the application of these above-described loads to the racking structure. Any alternate interpretation of the ASCE 7 Standard or disagreement with how loads were applied or how we performed our analysis by the customers internal engineering department or independent engineer(s), that results in an increase in member sizes or quantities, accepted by the customer shall be at the customer's expense. Any other liquidated damages that result from this acceptance shall be at the owner's expense.

Hi-MO 5 (Assembled in US)

LR5-72HBD 530~550M

- Based on M10 wafer, best choice for ultra-large power plants
- Advanced module technology delivers superior module efficiency
- Globally validated bifacial energy yield
- High module quality ensures long-term reliability

12 12-year Warranty for Materials and Processing

30 30-year Warranty for Extra Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730
 ISO9001:2015: ISO Quality Management System
 ISO14001: 2015: ISO Environment Management System
 ISO45001: 2018: Occupational Health and Safety
 IEC62941: Guideline for module design qualification and type approval



Hi-MO 5

21.3%
MAX MODULE EFFICIENCY

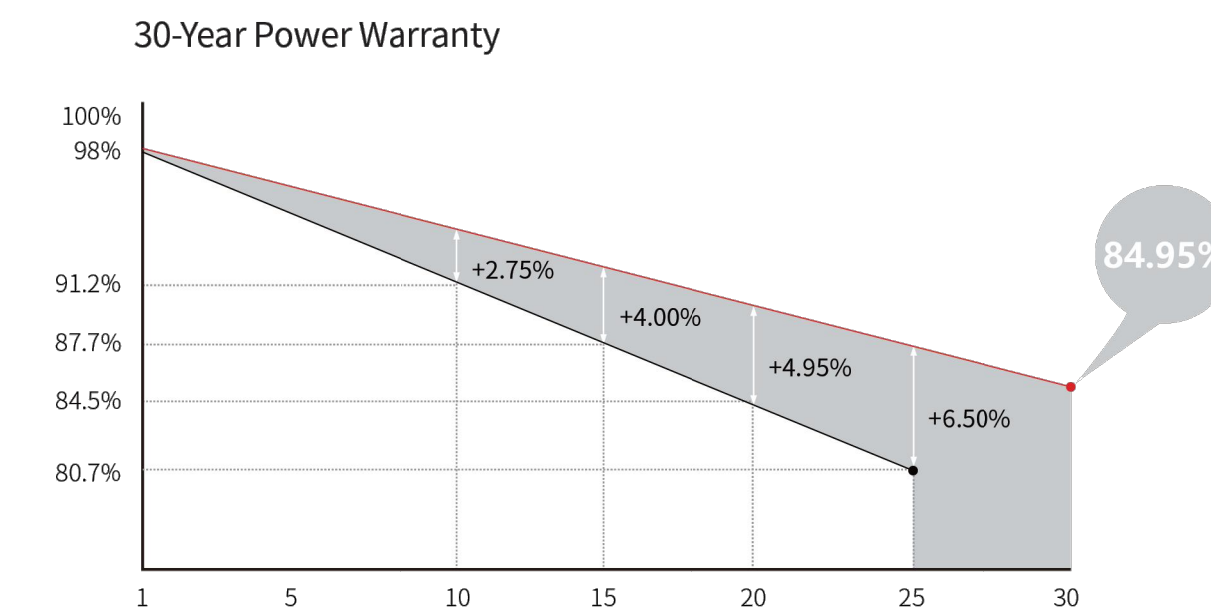
0~3%
POWER TOLERANCE

<2%
FIRST YEAR POWER DEGRADATION

0.45%
YEAR 2-30 POWER DEGRADATION

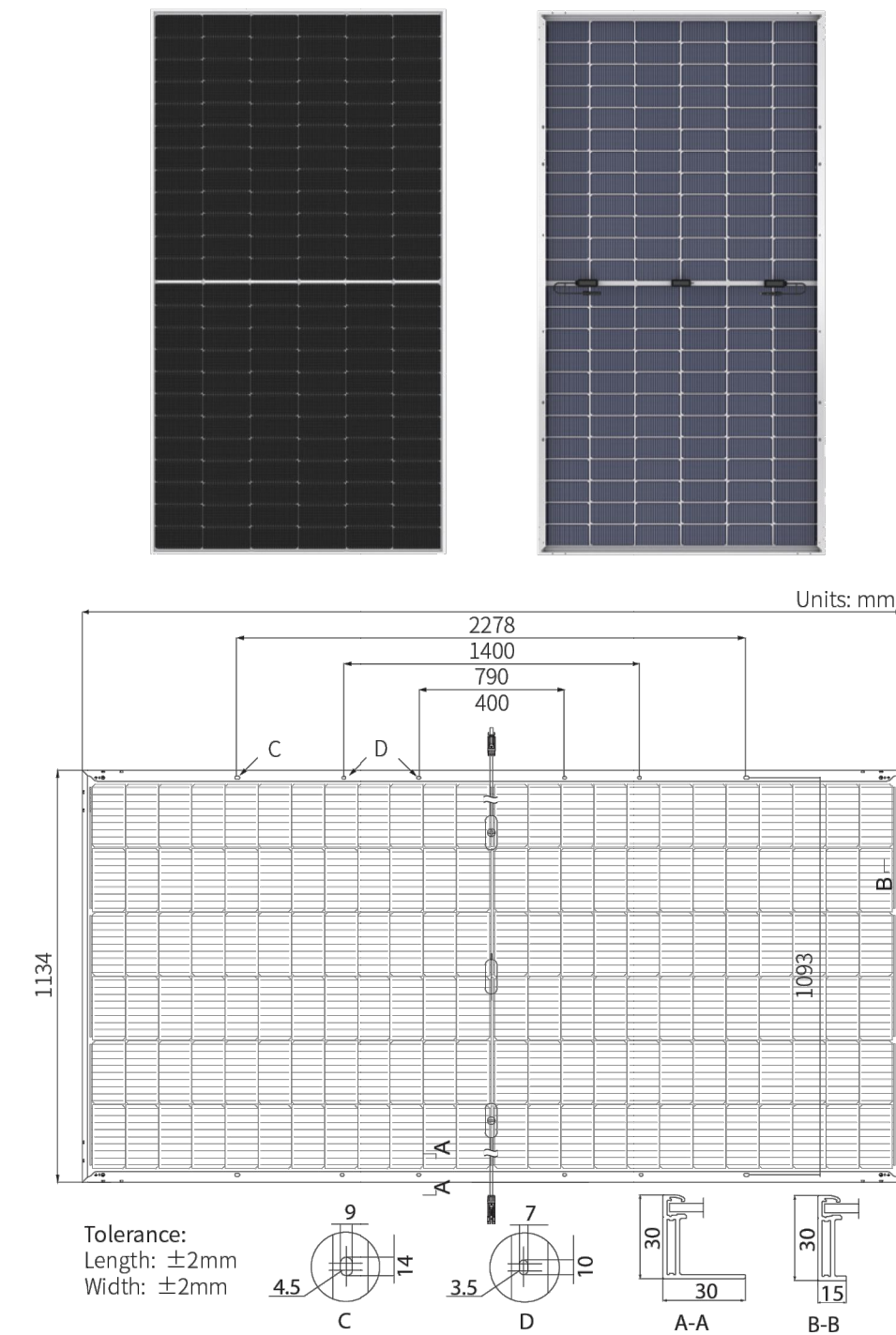
HALF-CELL
Lower operating temperature

Additional Value



Mechanical Parameters

Cell	144(2x72) half-cut, made in USA with imported parts
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/±1400mm length can be customized
Glass	Dual glass, 2.0+2.0mm heat strengthened glass
Frame	Anodized aluminum alloy frame
Weight	31.8kg
Dimension	2278×1134×30mm
Packaging	36pcs per pallet / 180pcs per 20' GP / 720pcs or 576pcs (Only for USA) per 40' HC



Electrical Characteristics

Module Type	STC: AM1.5 1000W/m ² 25°C		NOCT: AM1.5 800W/m ² 20°C 1m/s		Test uncertainty for Pmax: ±3%					
	LR5-72HBD-530M	LR5-72HBD-535M	LR5-72HBD-540M	LR5-72HBD-545M	LR5-72HBD-550M	LR5-72HBD-530M		LR5-72HBD-550M		
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	530	396.2	535	399.9	540	403.6	545	407.4	550	411.1
Open Circuit Voltage (Voc/V)	49.20	46.26	49.35	46.40	49.50	46.54	49.65	46.68	49.80	46.82
Short Circuit Current (Isc/A)	13.71	11.07	13.78	11.12	13.85	11.17	13.92	11.23	13.99	11.29
Voltage at Maximum Power (Vmp/V)	41.35	38.58	41.50	38.72	41.65	38.86	41.80	39.00	41.95	39.14
Current at Maximum Power (Imp/A)	12.82	10.27	12.90	10.33	12.97	10.39	13.04	10.45	13.12	10.51
Module Efficiency(%)	20.5		20.7		20.9		21.1		21.3	

Electrical characteristics with different rear side power gain (reference to 540W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
567	49.50	14.54	41.65	13.61	5%
594	49.50	15.23	41.65	14.26	10%
621	49.60	15.92	41.75	14.91	15%
648	49.60	16.62	41.75	15.56	20%
675	49.60	17.31	41.75	16.21	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	70±5%
Fire Rating	UL type 29 IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.265%/°C
Temperature Coefficient of Pmax	-0.340%/°C



Web: www.longi.com

Specifications included in this datasheet are subject to change without notice. LONGI reserves the right of final interpretation. (20250207V19)

SOLAR MODULE SPECIFICATIONS

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 ARTILLERY ROAD
 ARTILLERY RD
 WOODBURY, CT 06798

REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
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1	03/12/26	JDL	JDL	CUSTOMER COMMENTS
2	04/08/26	JDL	JDL	UPDATED SNOW LOAD INFORMATION

PROJECT NAME:
ARTILLERY ROAD

PROJECT NUMBER
10792769000

DRAWING NAME:
MODULE CUT SHEET

DRAWING NUMBER:
OS1.2

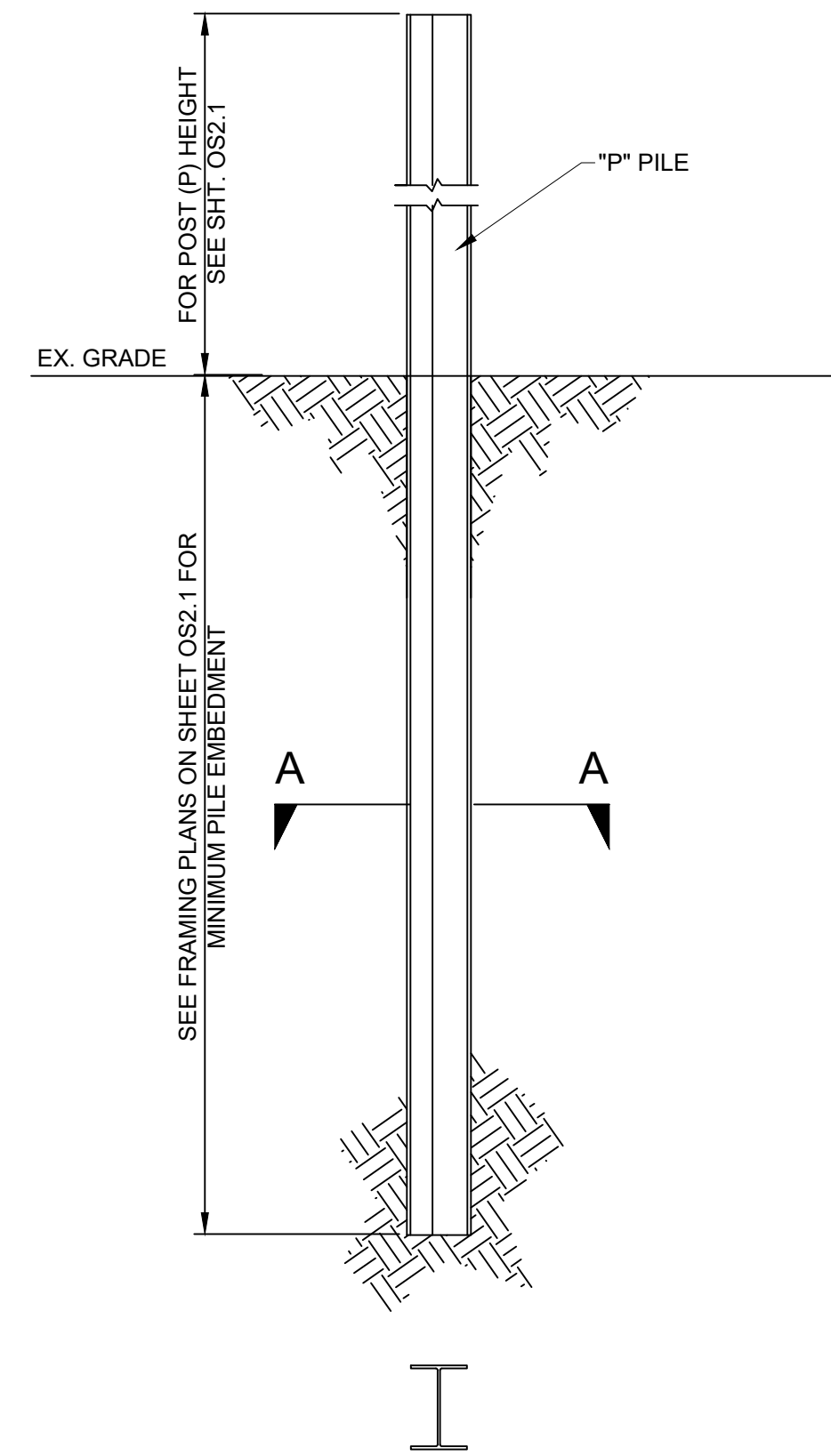
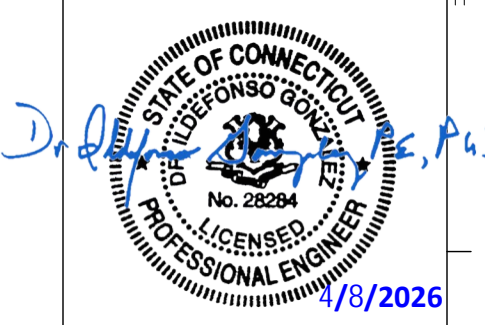
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 4550 W. WATKINS ST.
 PHOENIX, AZ 85043
 www.omcosolar.com

FOUNDATION INSTALLATION

FOUNDATION NOTES

1. THE FOUNDATION DESIGN OF POST/PILES SHALL BE PER THE LOCAL AHJ ADOPTED BUILDING CODE (IBC), PILE REACTIONS AND/OR LOAD TESTING REPORTS AND GEOTECHNICAL SOILS REPORT RECOMMENDATIONS. FOUNDATION DESIGN SHALL BE PER THE GOVERNING PILE REACTIONS RESULTING FROM THE STRUCTURAL ANALYSIS UTILIZING THE SPECIFIC PROJECT DESIGN MODULE, WIND LOADS, SNOW, AND SEISMIC LOAD SPECIFIED IN THIS SET. SEE TABLE THIS SHEET FOR POST REACTION AT GRADE AND MINIMUM EMBEDMENT REQUIREMENTS.
2. IT IS CRITICAL FOR PILES TO BE INSTALLED IN THE PROPER ORIENTATION AND LOCATION. REFERENCE LATEST OMCO FIELD FAST INSTALLATION MANUAL PROVIDED FOR ALL PILE INSTALLATION TOLERANCES FOR ORIENTATION AND LOCATION.
3. TRENCHING OR EXCAVATION IN THE VICINITY OF PILE FOUNDATIONS SHALL SATISFY THE MINIMUM CLEARANCES NOTED BELOW BETWEEN EDGE OF TRENCH AND PILE.
EAST-WEST TRENCHING = 60"
NORTH-SOUTH TRENCHING = 36"
4. ALL CIVIL DESIGN, SITE LAYOUT, AND ASSOCIATED WORK SHALL BE DESIGNED, APPROVED, AND INSTALLED BY OTHERS.
5. PILES NOT DRIVEN TO THE SPECIFIED EMBEDMENT DEPTH SHALL BE REDESIGNED AND/OR MODIFIED AT THE CONTRACTOR'S EXPENSE. REDESIGN SHALL BE APPROVED AND/OR PROVIDED BY OMCO SOLAR.
6. IN THE EVENT OF ENCOUNTERING PILE REFUSAL, NOTIFY OMCO SOLAR IMMEDIATELY PRIOR TO MAKING ANY FIELD ADJUSTMENTS OR MODIFICATIONS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE ENGINEER OF RECORD IF FIELD CONDITIONS AND SOIL CONDITIONS ARE NOT PER THE GEOTECHNICAL REPORT OR APPROVED STAMPED CONSTRUCTION DOCUMENTS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW THE RECOMMENDATIONS PROVIDED IN THIS APPROVED CONSTRUCTION DOCUMENTS AND THE SITE GEOTECHNICAL REPORTS.
9. PILE SHALL NOT BE DRIVEN OR SET IN LOW POINTS WHERE WATER WILL BE ACCUMULATING OR PONDING.
10. FOUNDATION DESIGN BY PER GEOTECHNICAL REPORT NO 0225-017.00 BY DOWN TO EARTH CONSULTING, DATED 10/12/24.

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VIEW "A-A"

TYPICAL DRIVEN PILE FND (PD) 1

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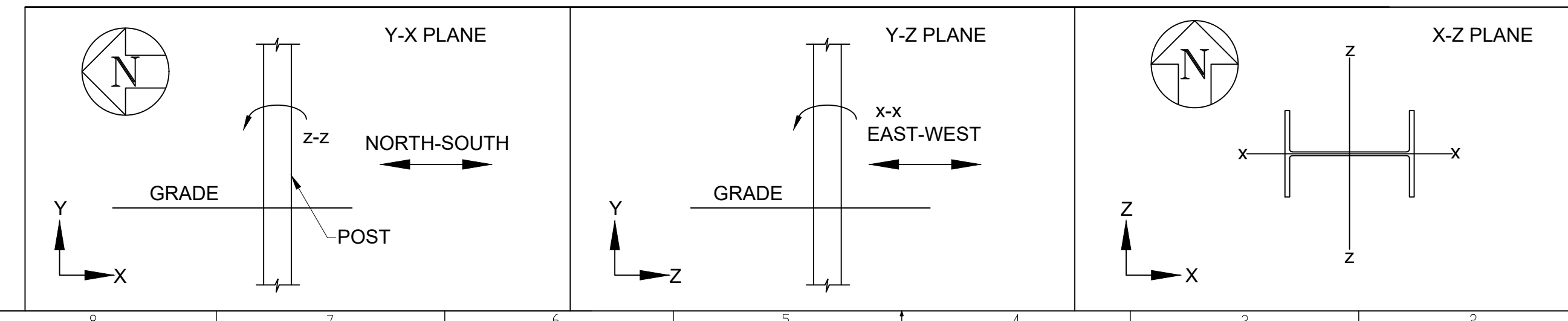
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DRAWING NAME:
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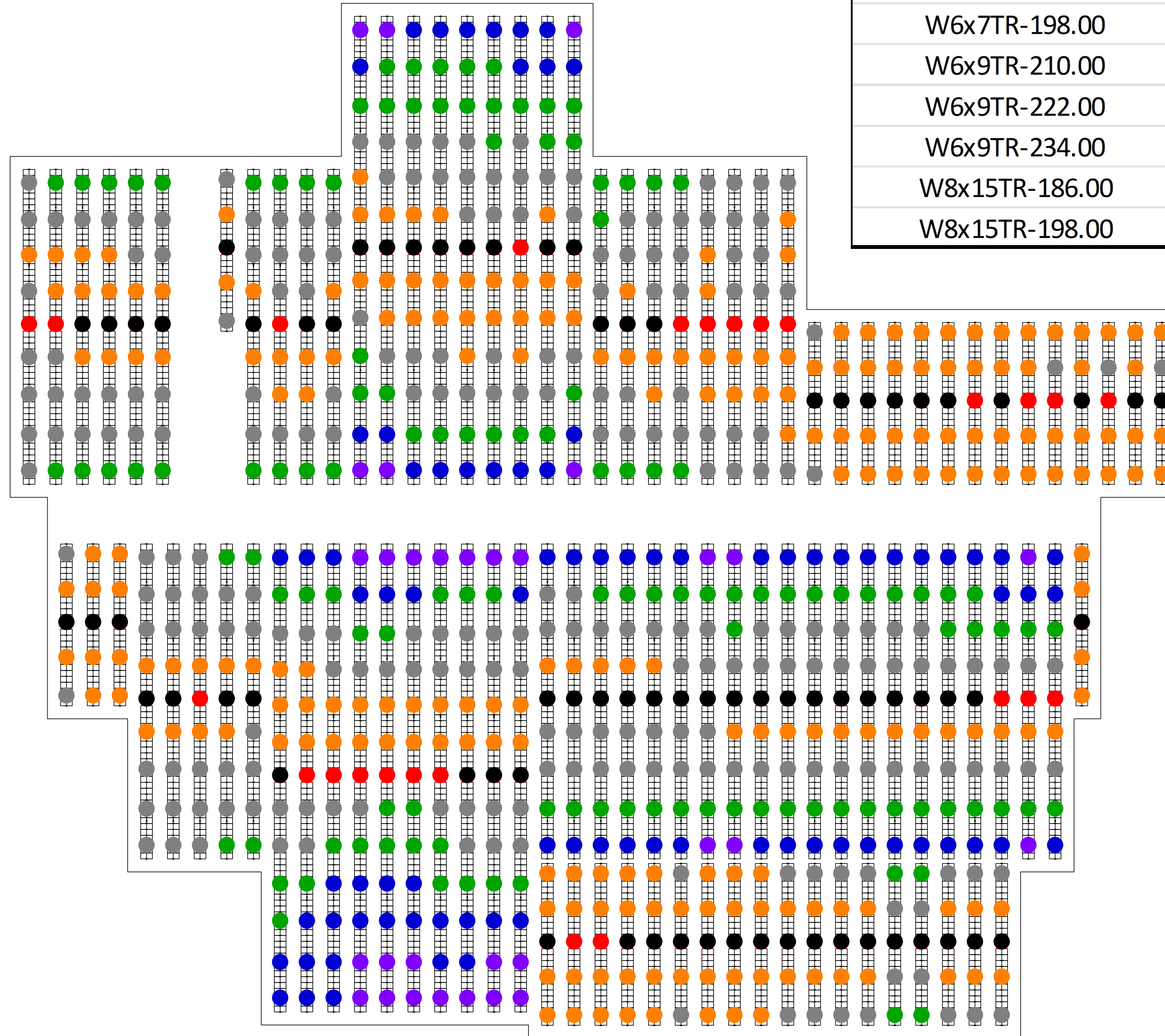
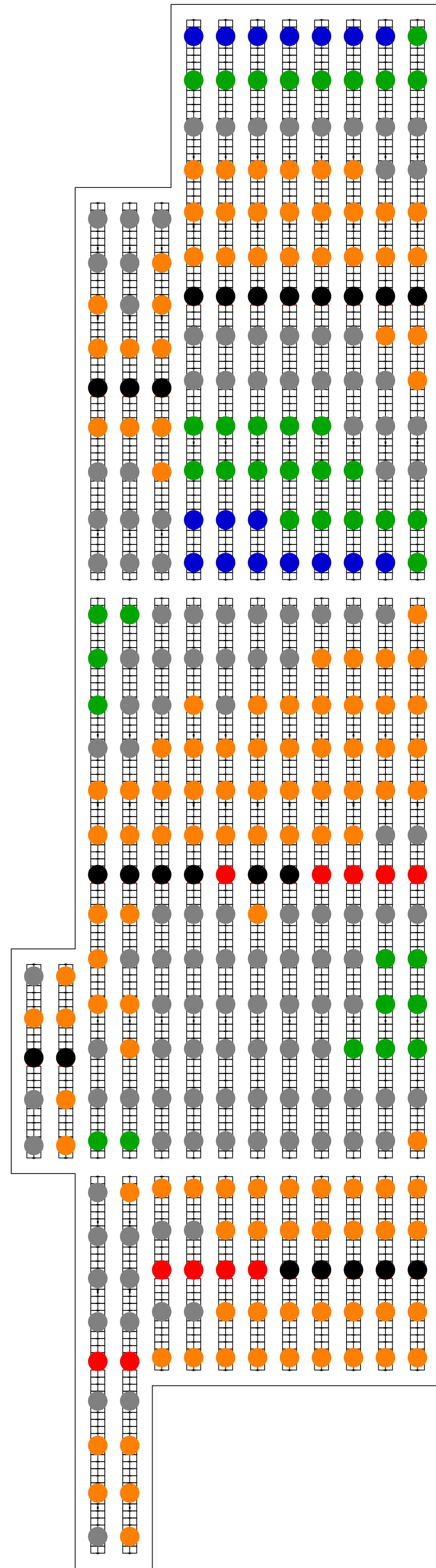
DRAWING NUMBER:
OS1.3

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4550 W. WATKINS ST.
PHOENIX, AZ 85043
www.omcosolar.com



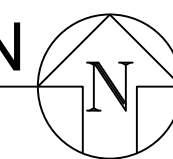
SYSTEM A

SYSTEM B



Pile Plan	Paint Color	Count
W6x7TR-186.00	Orange	356
W6x7TR-198.00	No Color	380
W6x9TR-210.00	Green	164
W6x9TR-222.00	Dark Blue	101
W6x9TR-234.00	Purple	31
W8x15TR-186.00	Black	98
W8x15TR-198.00	Red	36

COLOR-CODED PILE PLAN
(NTS)



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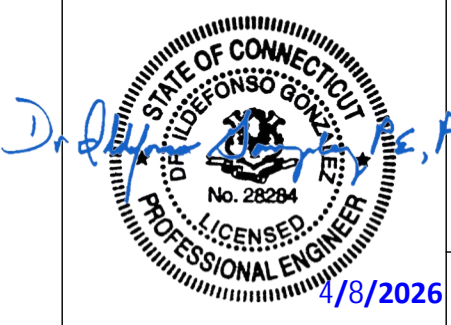
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DRAWING NAME:
COLOR-CODED
PILE PLAN

DRAWING NUMBER:
OS1.4

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OMCO ORIGIN® SINGLE-AXIS TRACKER
 ARTILLERY ROAD
 ARTILLERY RD
 WOODBURY, CT 06798

REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
0	01/28/26	JDL	JDL	INITIAL RELEASE
1	03/12/26	JDL	JDL	CUSTOMER COMMENTS
2	04/08/26	JDL	JDL	UPDATED SNOW LOAD INFORMATION

PROJECT NAME:
 ARTILLERY ROAD

PROJECT NUMBER:
 10792769000

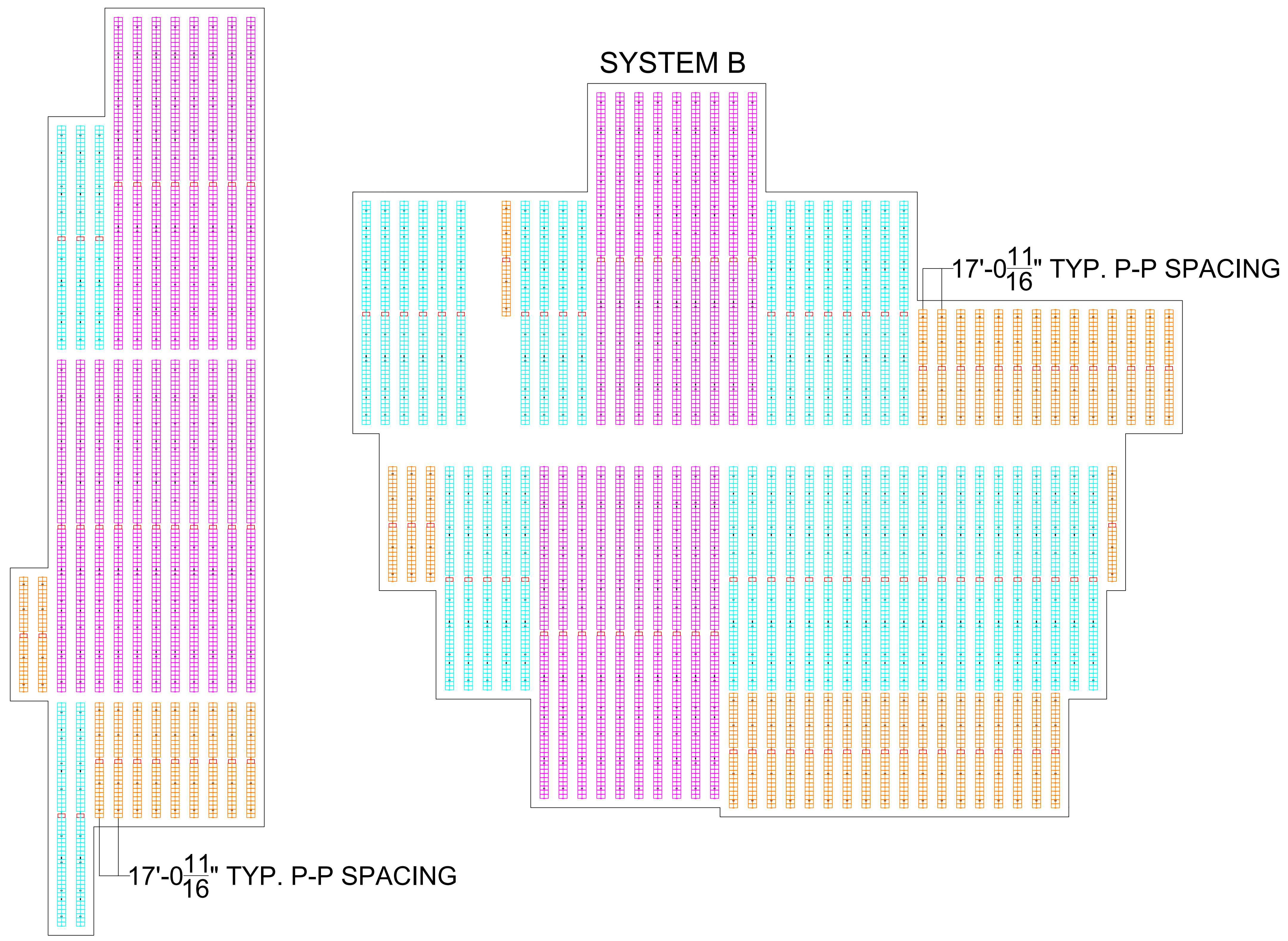
DRAWING NAME:
 GENERAL LAYOUT

DRAWING NUMBER:
 OS2.0

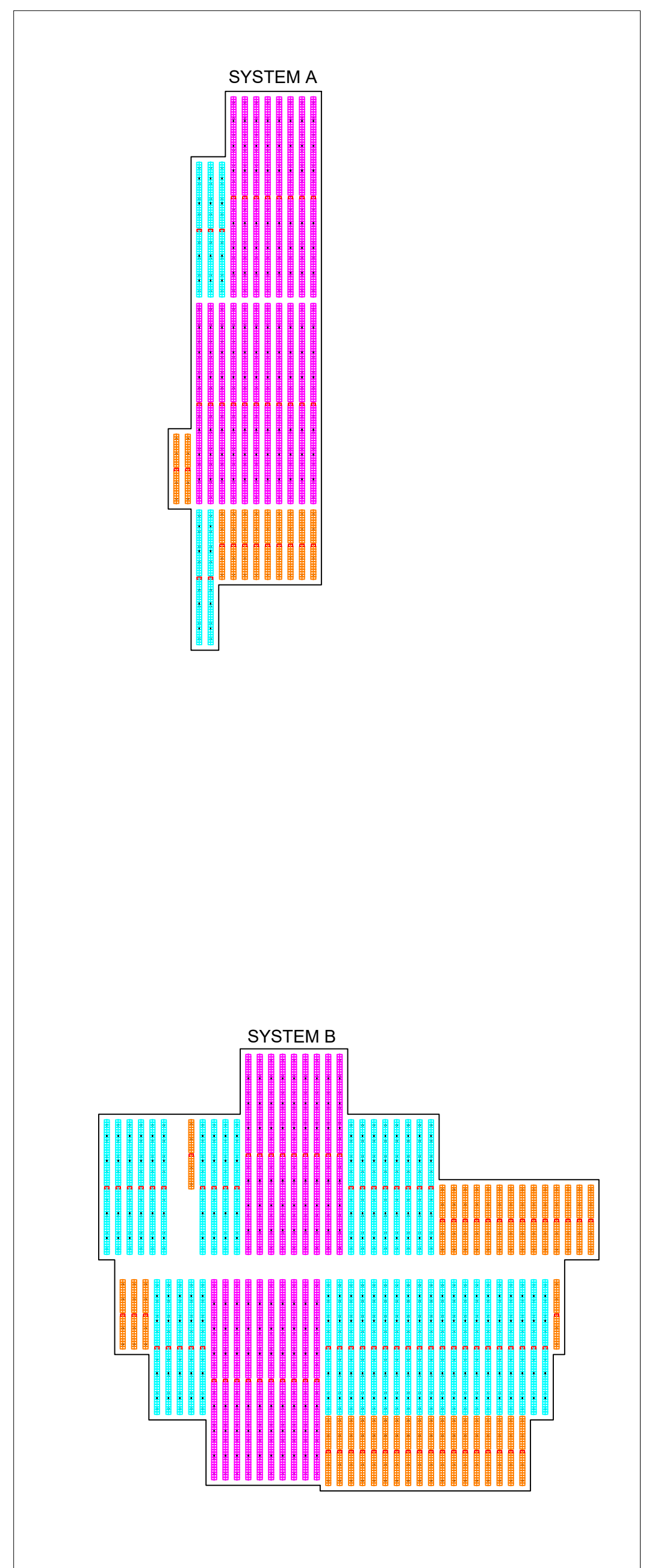
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SYSTEM A

SYSTEM B



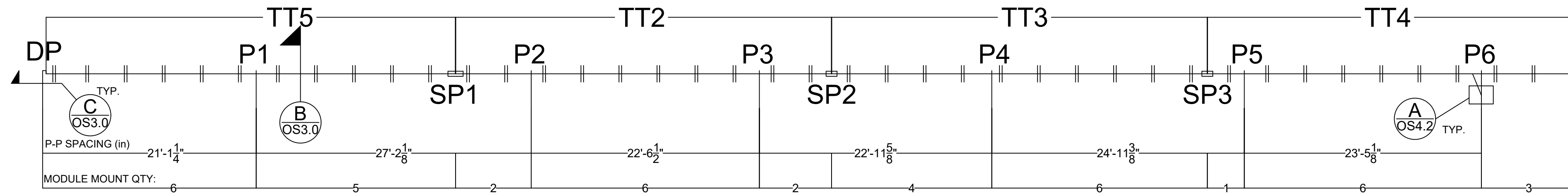
FULL LAYOUT



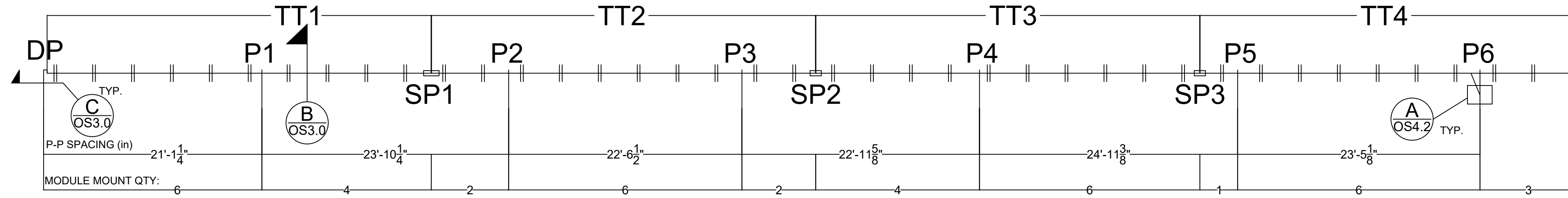
- 78 PERIMETER TRACKER (38)
- 52 PERIMETER TRACKER (48)
- 26 PERIMETER TRACKER (48)

OVERALL STRUCTURE LAYOUT PLAN
 (NTS)

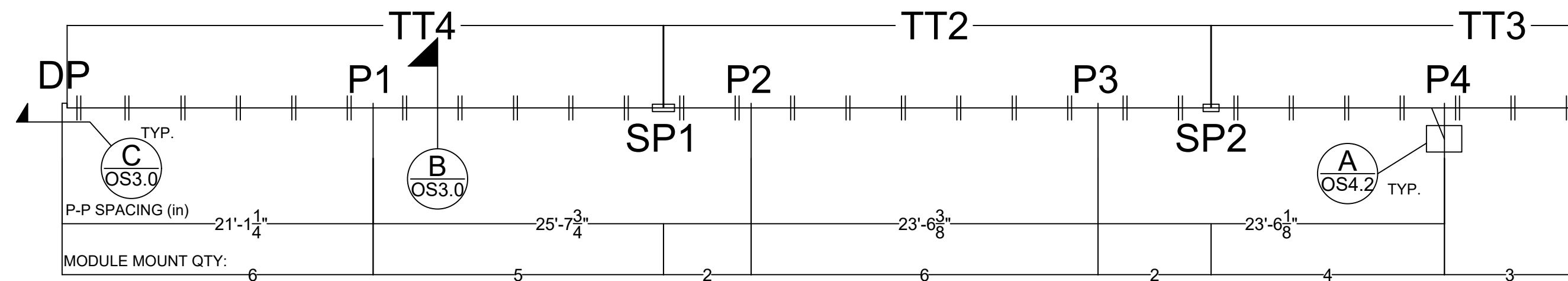
TR78P (SOUTH SIDE)



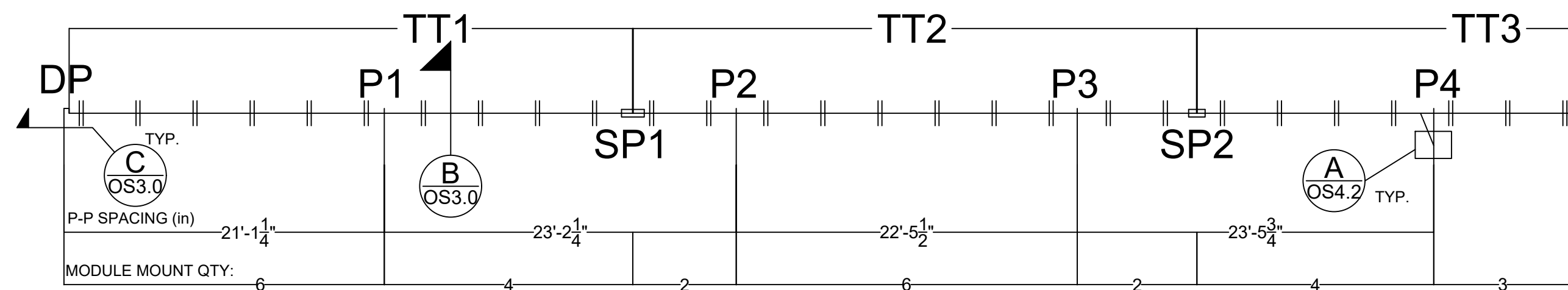
TR78P (NORTH SIDE)



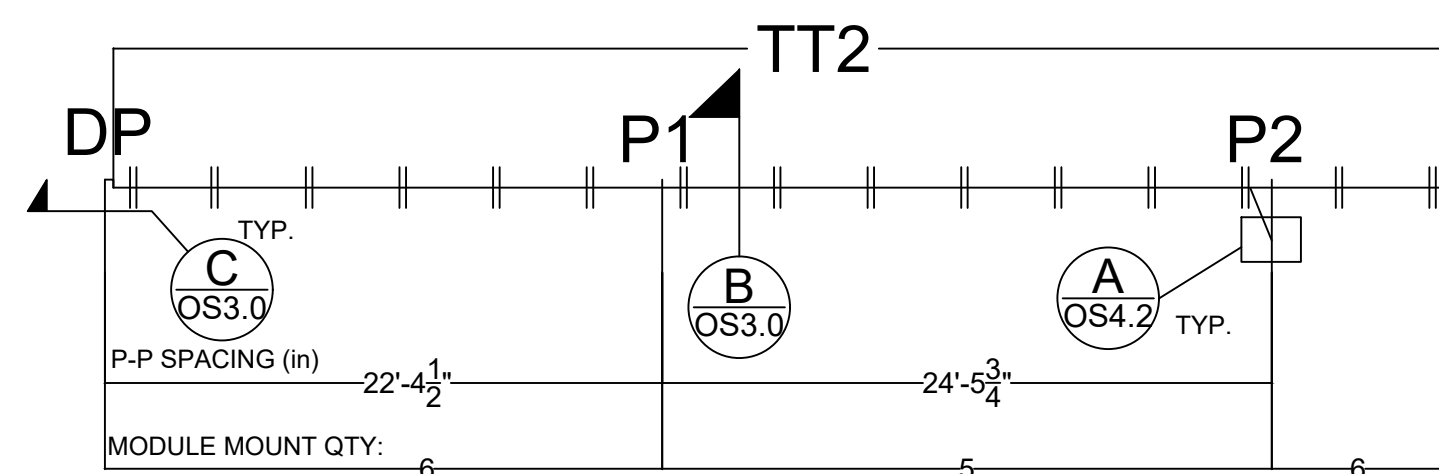
TR52P (SOUTH SIDE)



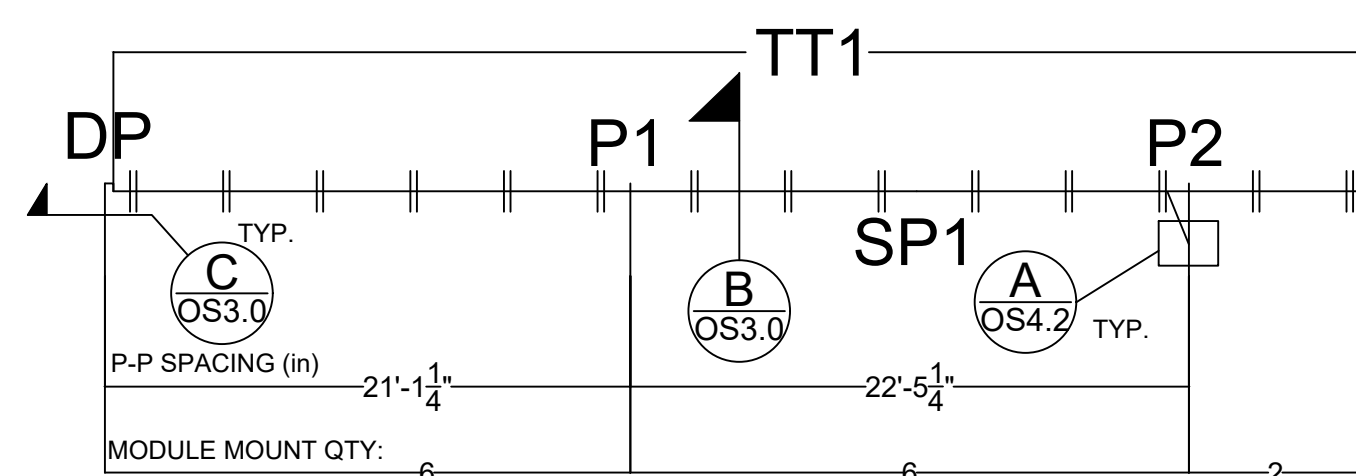
TR52P (NORTH SIDE)



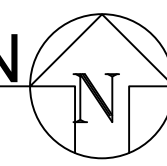
TR26P (SOUTH SIDE)



TR26P (NORTH SIDE)



FRAMING PLAN
(NTS)



TRACKER 78 PER (QTY. 38)										
MARK	MEMBERS	DIMENSIONS				Fy(ksi)	Fu(ksi)	LENGTH (in)	MINIMUM EMBEDMENT	MEMBER COLOR
		"a"	"b"	"t"	"r"					
DP	DRIVE POST	SEE COLOR-CODED PILE PLAN				-	50	60	10' 0"	SEE COLOR-CODED PILE PLAN
P1	POST					-	50	60	10' 0"	
P2	POST					-	50	60	10' 0"	
P3	POST					-	50	60	10' 0"	
P4	POST					-	50	60	10' 0"	
P5	POST					-	50	60	10' 0"	
P6	POST	-	50	60	10' 0"					
TT1	TORQUE TUBE	4.00"	4.00"	.145"	0.27"	80	90	445.37"	-	NO COLOR
TT2	TORQUE TUBE	4.00"	4.00"	.145"	0.27"	80	90	445.37"	-	NO COLOR
TT3	TORQUE TUBE	4.00"	4.00"	.145"	0.27"	80	90	445.37"	-	NO COLOR
TT4	TORQUE TUBE	4.00"	4.00"	.106"	0.27"	80	90	437.32"	-	RED
TT5	TORQUE TUBE	4.00"	4.00"	.145"	0.27"	80	90	484.78"	-	YELLOW
SP1	SPLICE	SEE DETAIL A OS4.4	-	-	-	-	-	18.00"	-	-
SP2	MINI SPLICE	SEE DETAIL C OS4.4	-	-	-	-	-	13.00"	-	-
SP3	MINI SPLICE	SEE DETAIL C OS4.4	-	-	-	-	-	13.00"	-	-

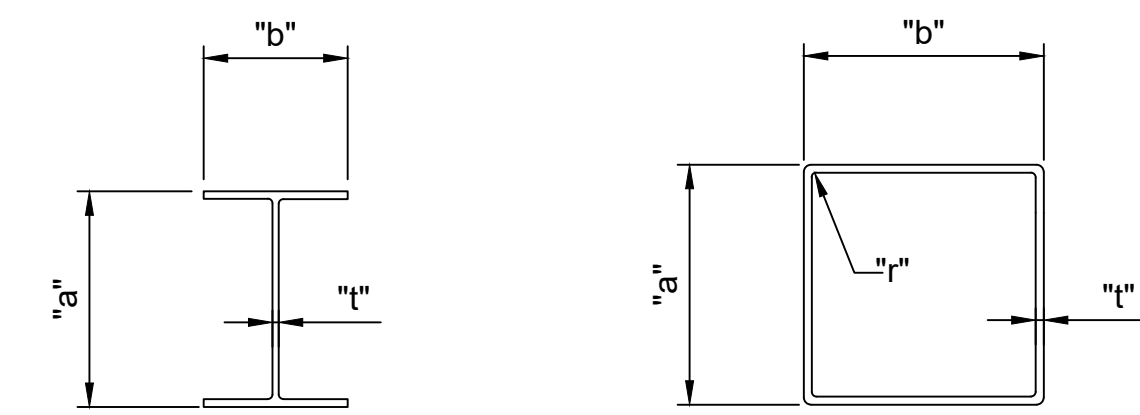
TRACKER 52 PER (QTY. 48)										
MARK	MEMBERS	DIMENSIONS				Fy(ksi)	Fu(ksi)	LENGTH (in)	MINIMUM EMBEDMENT	MEMBER COLOR
		"a"	"b"	"t"	"r"					
DP	DRIVE POST	SEE COLOR-CODED PILE PLAN				-	50	60	10' 0"	SEE COLOR-CODED PILE PLAN
P1	POST					-	50	60	10' 0"	
P2	POST					-	50	60	10' 0"	
P3	POST					-	50	60	10' 0"	
P4	POST					-	50	60	10' 0"	
P5	POST					-	50	60	10' 0"	
TT1	TORQUE TUBE	4.00"	4.00"	.145"	0.27"	80	90	445.37"	-	NO COLOR
TT2	TORQUE TUBE	4.00"	4.00"	.145"	0.27"	80	90	445.37"	-	NO COLOR
TT3	TORQUE TUBE	4.00"	4.00"	.106"	0.27"	80	90	296.4"	-	BLACK
TT4	TORQUE TUBE	4.00"	4.00"	.145"	0.27"	80	90	484.78"	-	YELLOW
SP1	SPLICE	SEE DETAIL A OS4.4	-	-	-	-	-	18.00"	-	-
SP2	MINI SPLICE	SEE DETAIL C OS4.4	-	-	-	-	-	13.00"	-	-

TRACKER 26 PER (QTY. 48)										
MARK	MEMBERS	DIMENSIONS				Fy(ksi)	Fu(ksi)	LENGTH (in)	MINIMUM EMBEDMENT	MEMBER COLOR
		"a"	"b"	"t"	"r"					
DP	DRIVE POST	SEE COLOR-CODED PILE PLAN				-	50	60	10' 0"	SEE COLOR-CODED PILE PLAN
P1	POST					-	50	60	10' 0"	
P2	POST					-	50	60	10' 0"	
P3	POST					-	50	60	10' 0"	
P4	POST					-	50	60	10' 0"	
P5	POST					-	50	60	10' 0"	
TT1	TORQUE TUBE	4.00"	4.00"	.145"	0.27"	80	90	601.6"	-	DARK GREEN
TT2	TORQUE TUBE	4.00"	4.00"	.145"	0.27"	80	90	641.01"	-	DARK BLUE

NOTE: HALF TRACKER SHOWN FOR CLARITY OTHER HALF IS MIRROR IMAGE

FRAMING PLAN NOTES:

- POST SHALL BE ORIENTED WITH OPEN FACE TO THE SOUTH
- TORQUE TUBE SHALL BE INSTALLED WITH WELDED SIDE ON TOP
- SEE SHEET OS3.1 FOR MODULE MOUNTING REQUIREMENTS



PILE SHAPE	"a"	"b"	"t"
W6x7	5.79"	3.905"	0.135"
W6x9	5.9"	3.94"	0.17"
W8x15	8.11"	4.02"	0.245"

MEMBER SECTION PROFILES

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ARTILLERY RD
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DATE	INITIAL RELEASE	CUSTOMER COMMENTS	UPDATED SNOW LOAD INFORMATION
01/28/26	JDL		
03/12/26	JDL		
04/02/26	JDL		

REV	DATE	DESCRIPTION
0	01/28/26	INITIAL RELEASE
1	03/12/26	CUSTOMER COMMENTS
2	04/02/26	UPDATED SNOW LOAD INFORMATION

PROJECT NAME:
ARTILLERY ROAD

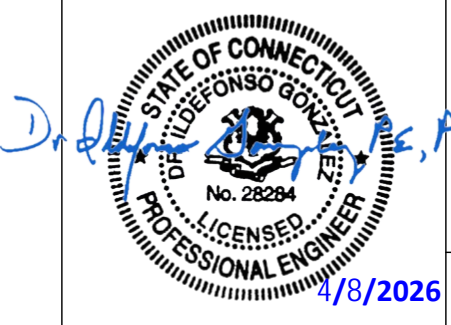
PROJECT NUMBER
10792769000

DRAWING NAME:
TRACKER STRUCTURAL REQUIREMENTS

DRAWING NUMBER:
OS2.1

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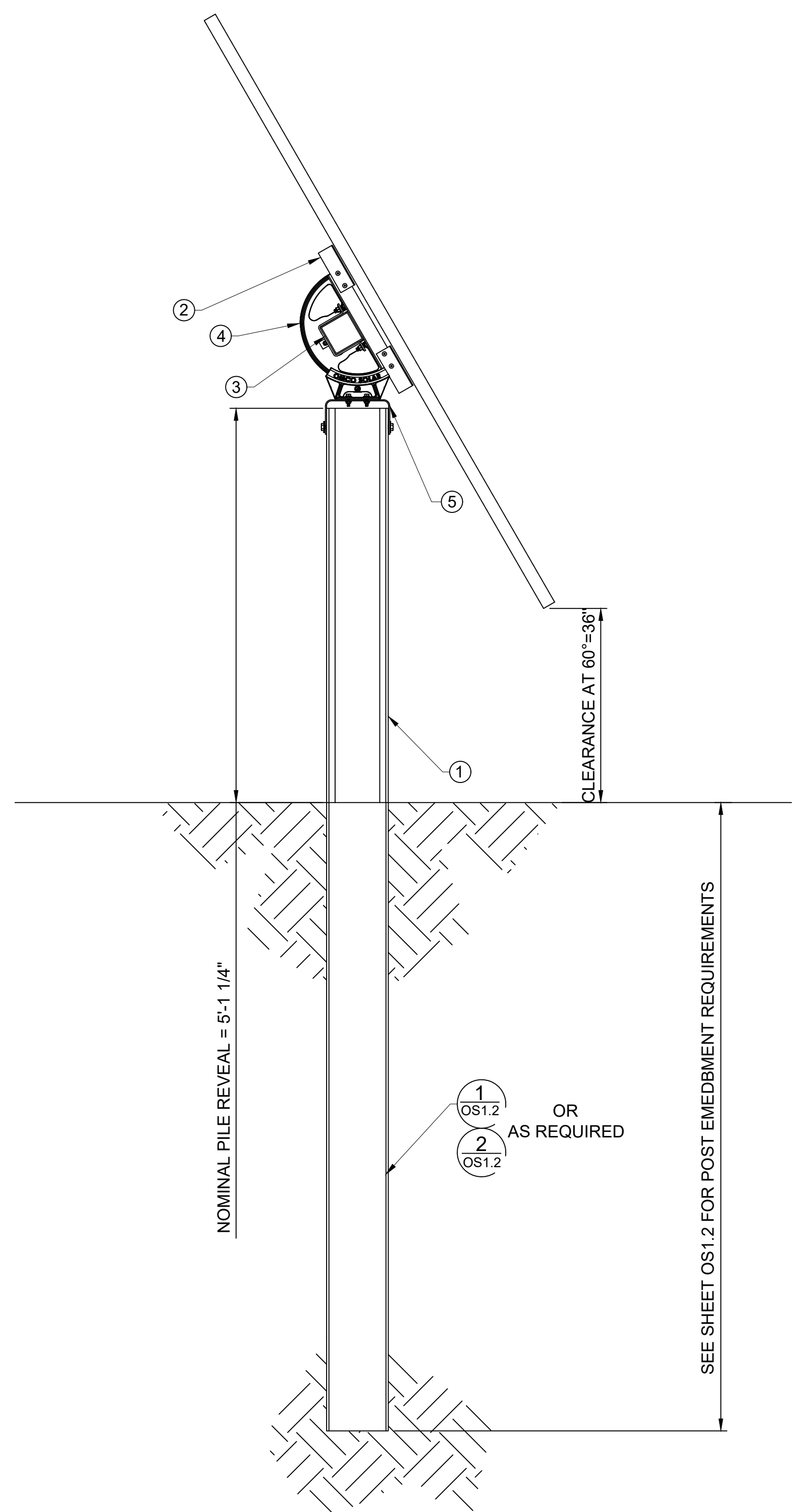
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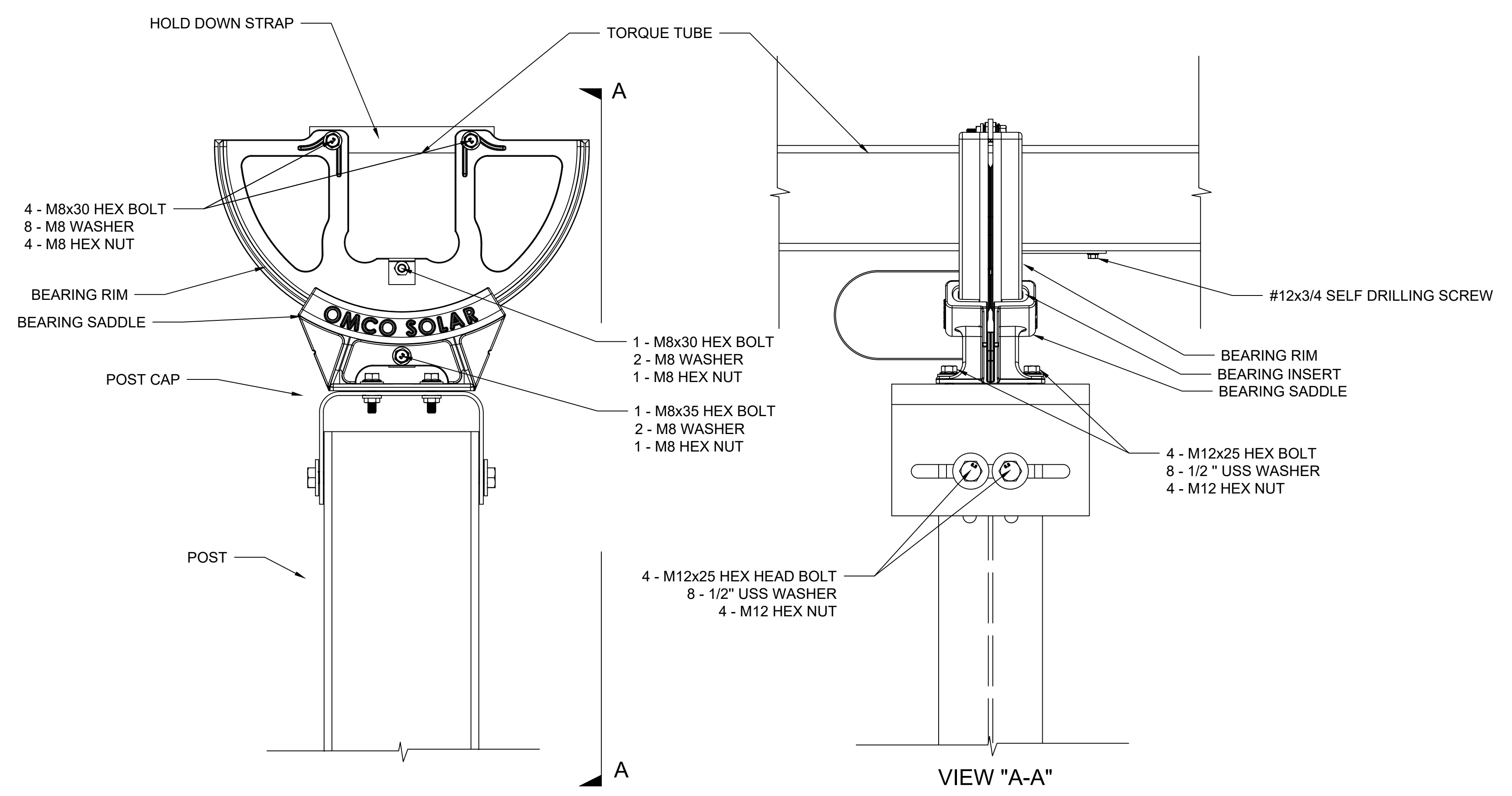
REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
0	01/28/26	JDL	JDL	INITIAL RELEASE
1	03/12/26	JDL	JDL	CUSTOMER COMMENTS
2	04/08/26	JDL	JDL	UPDATED SNOW LOAD INFORMATION

PROJECT NAME:	ARTILLERY ROAD
PROJECT NUMBER:	10792769000
DRAWING NAME:	TYPICAL SECTION BEARING & DRIVE DETAILS
DRAWING NUMBER:	OS3.0
OMCO SOLAR	4550 W. WATKINS ST. PHOENIX, AZ 85043
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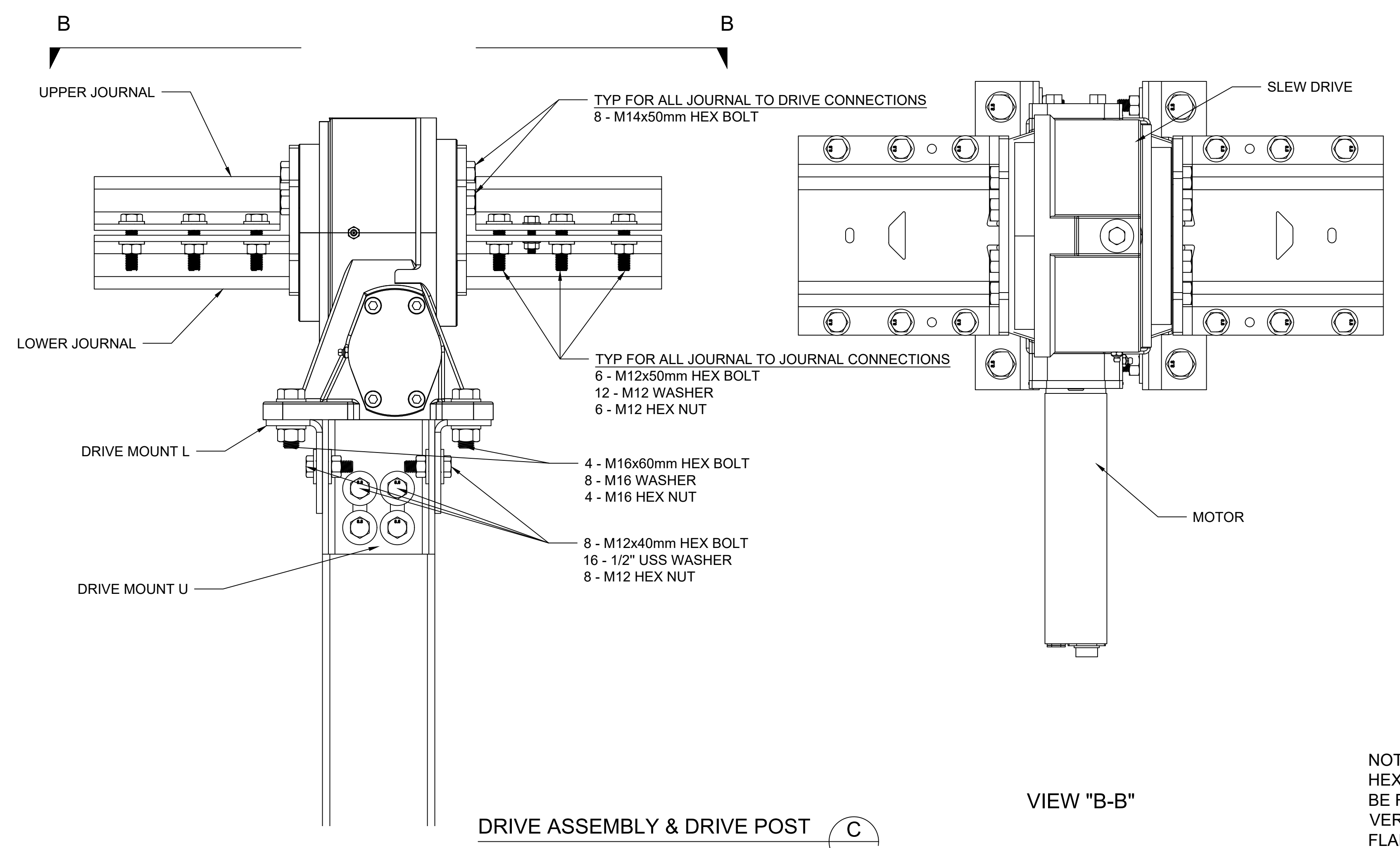


TYP. SECTION AT POST
 (NTS)

ITEM NO.	DESCRIPTION	MARK
①	POST	P
②	MODULE MOUNT ASSEMBLY	MMA
③	TORQUE TUBE	TT
④	BEARING ASSEMBLY	BA
⑤	POST CAP	PC

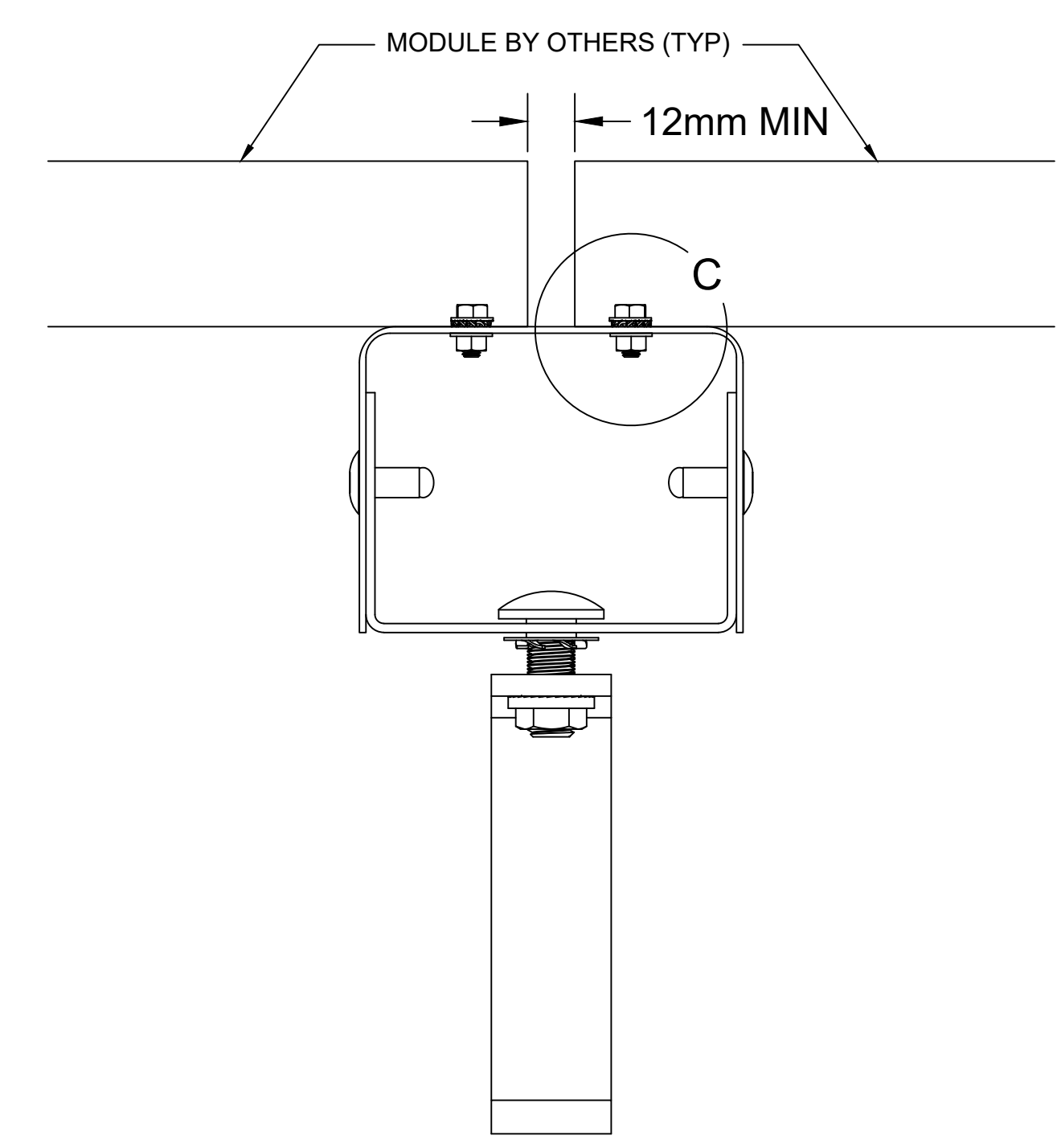
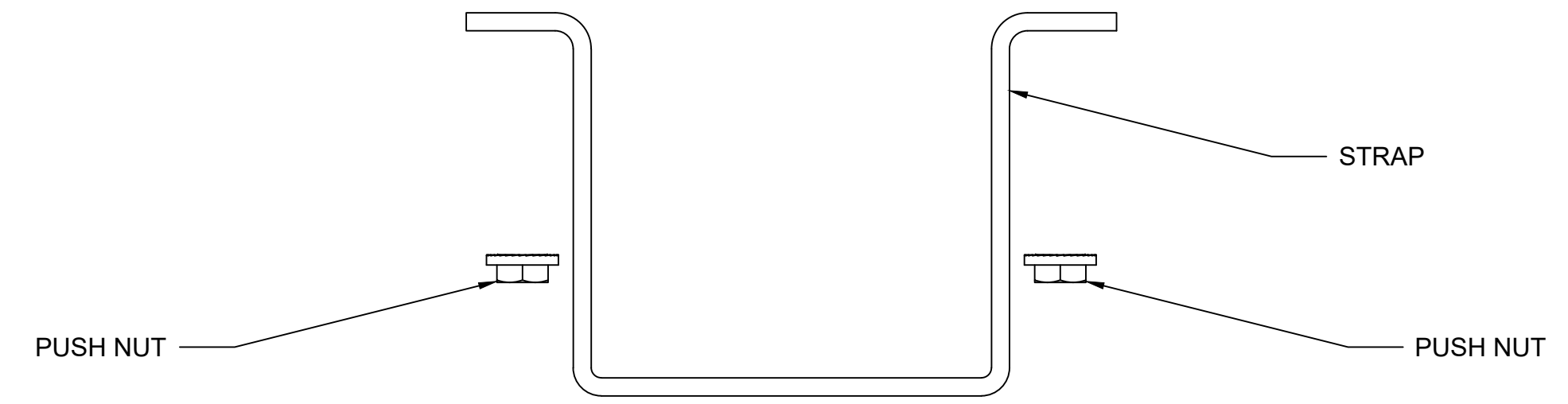
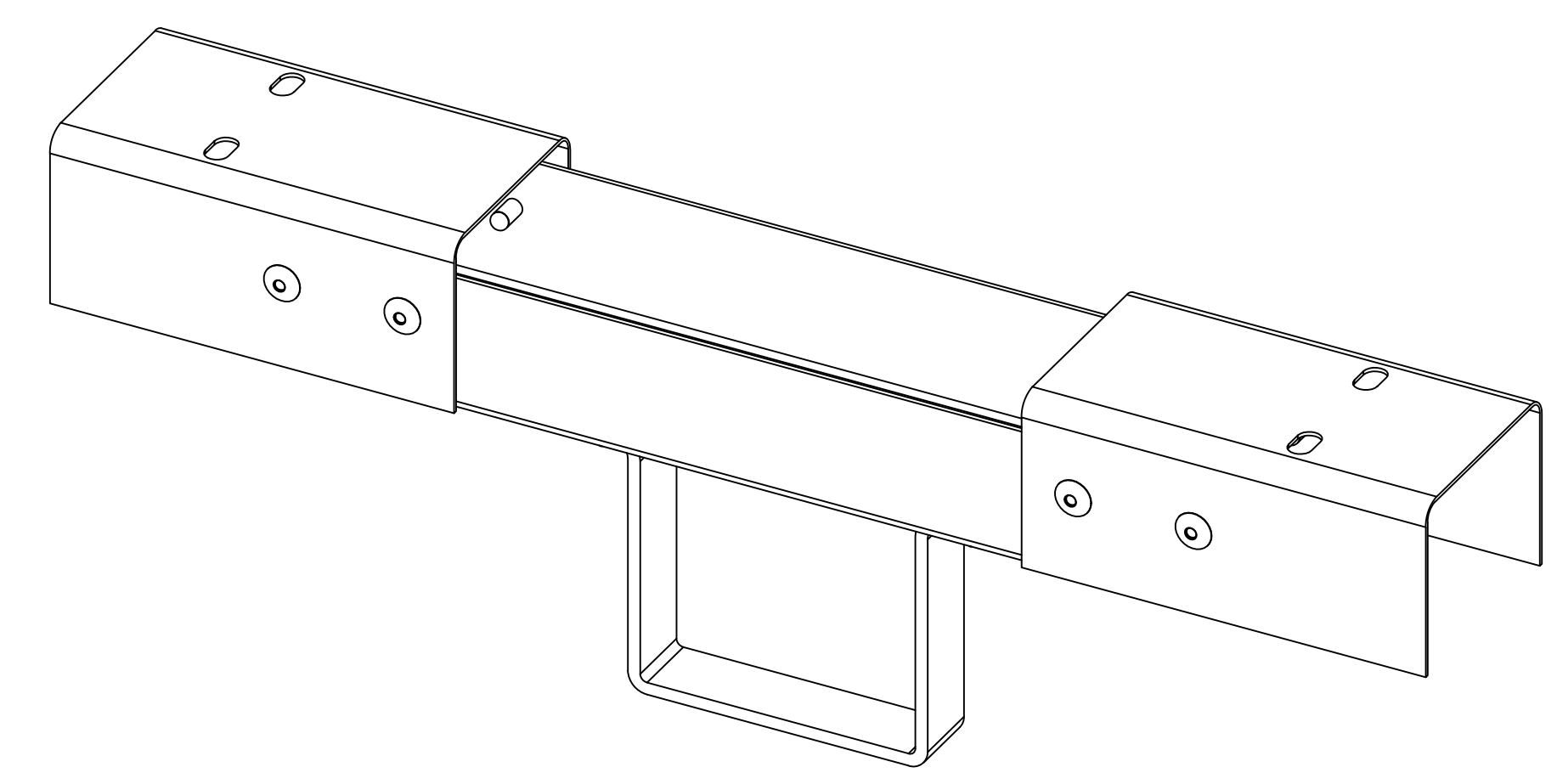
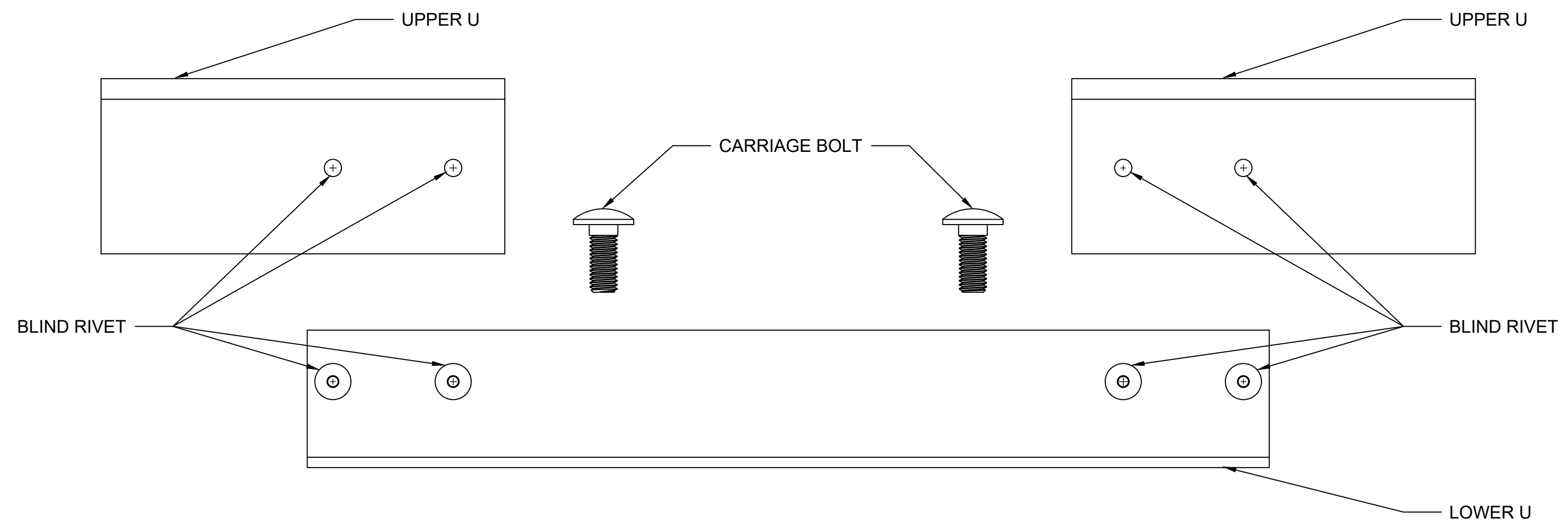


TYPICAL BEARING ASSEMBLY & BEARING POST
 (NTS)



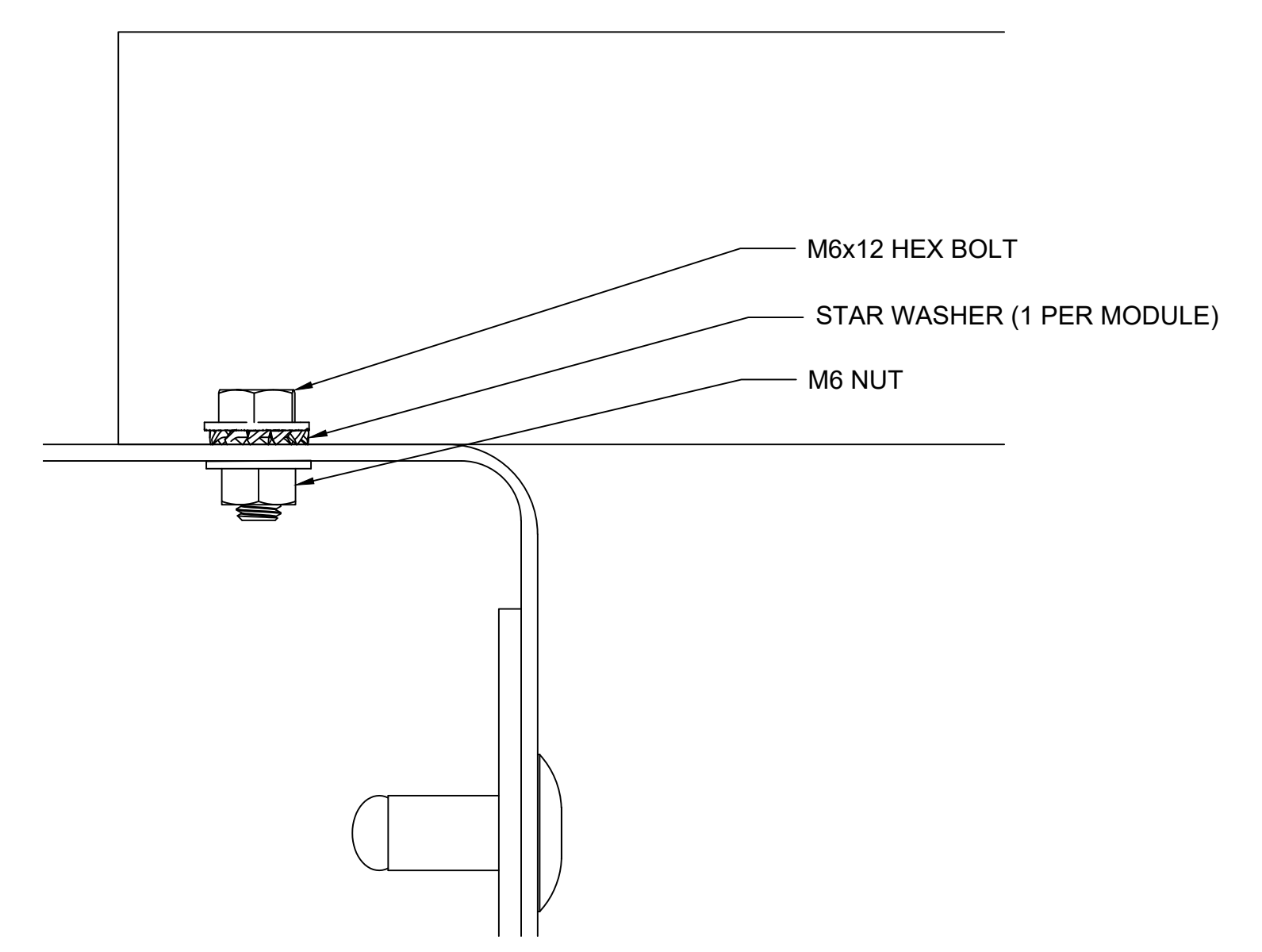
DRIVE ASSEMBLY & DRIVE POST
 (NTS)

NOTE: EITHER OR BOTH OF THE
 HEX NUT AND HEX BOLT COULD
 BE REPLACED WITH FLANGED
 VERSIONS. IF THERE IS A
 FLANGE, THE WASHER IS NOT
 NEEDED FOR THAT FASTENER.

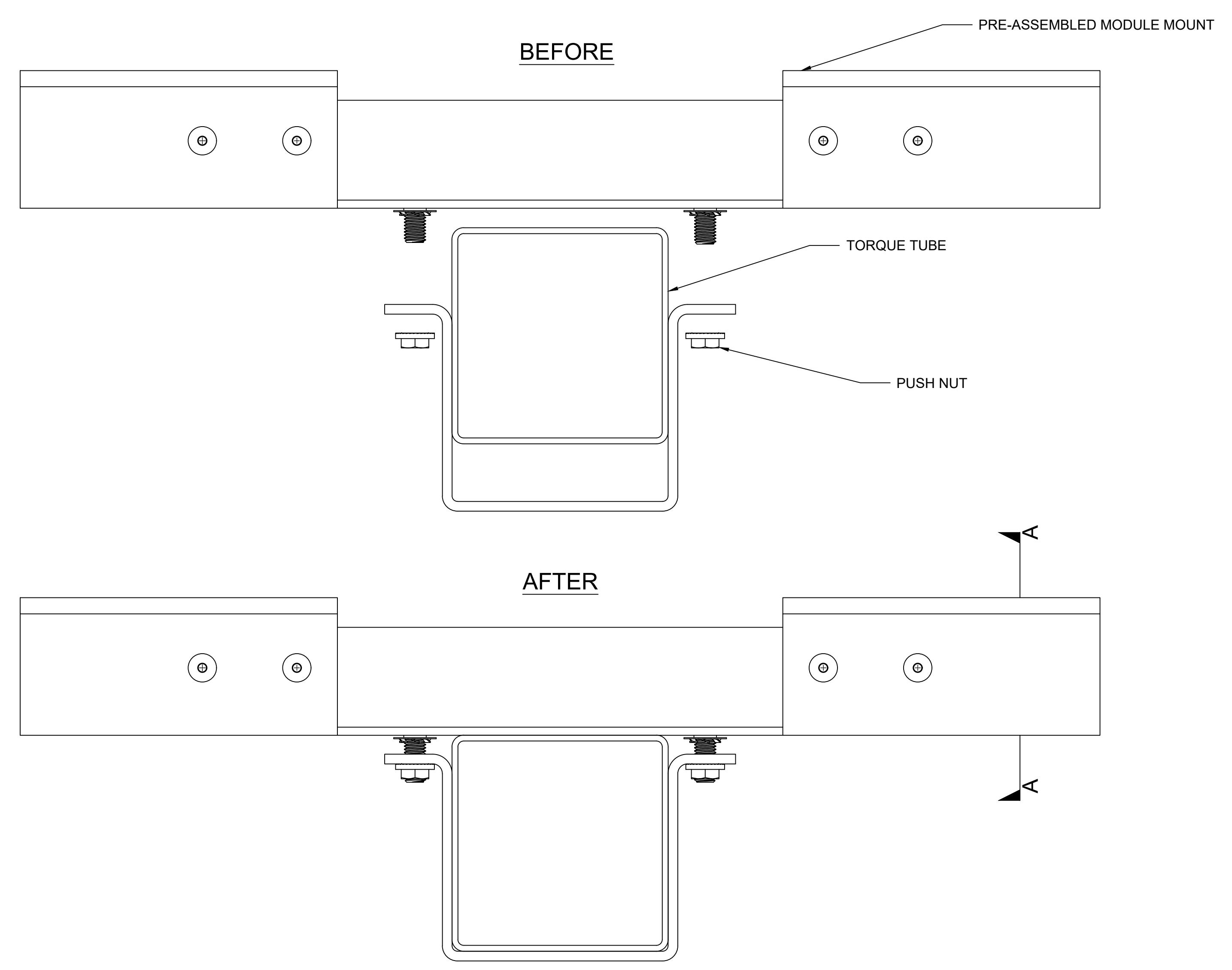


1P DIRECT BOLT COMPONENTS
(NTS)

VIEW "A-A"



1P DIRECT BOLT HARDWARE STACK
(NTS)



1P DIRECT BOLT MODULE MOUNT
(NTS)

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REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
0	01/28/26	JDL	JDL	INITIAL RELEASE
1	03/12/26	JDL	JDL	CUSTOMER COMMENTS
2	04/02/26	JDL	JDL	UPDATED SNOW LOAD INFORMATION

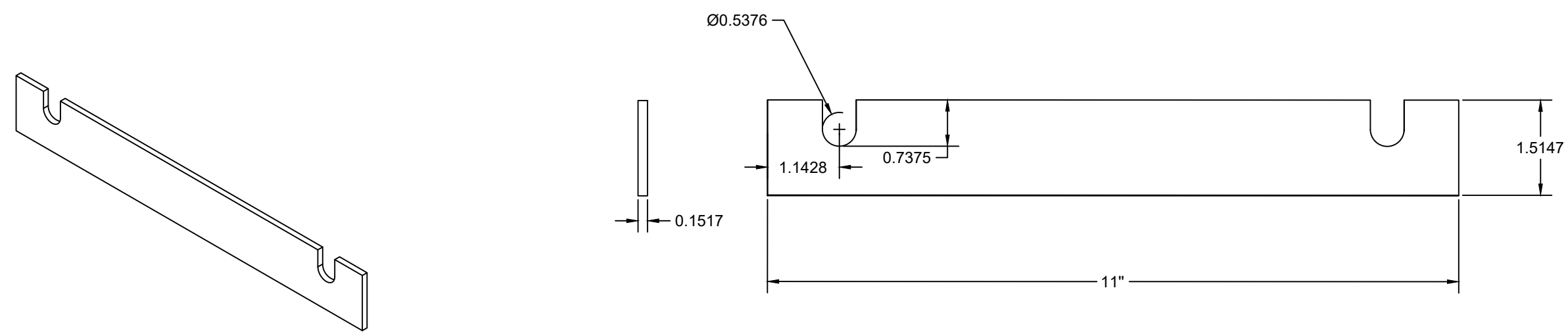
PROJECT NAME:
ARTILLERY ROAD

PROJECT NUMBER
10792769000

DRAWING NAME:
MODULE MOUNTING
DETAILS

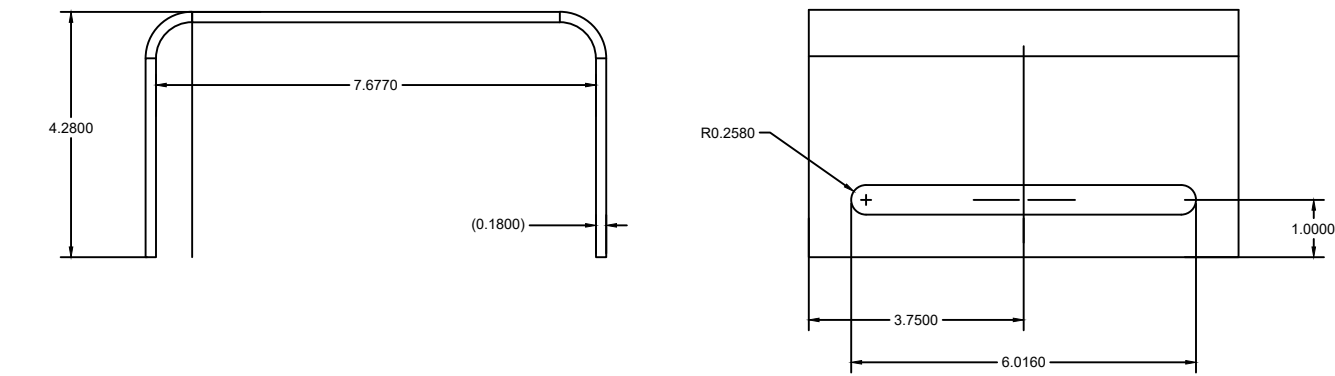
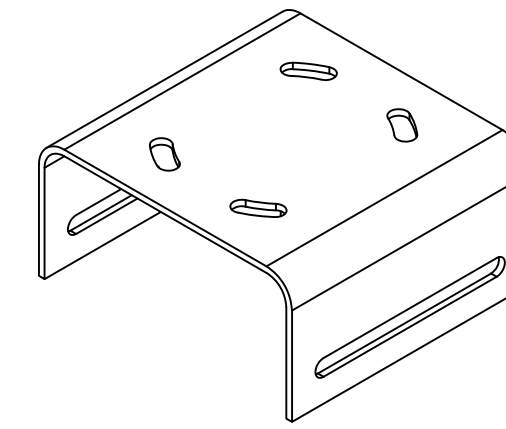
DRAWING NUMBER:
OS3.1A

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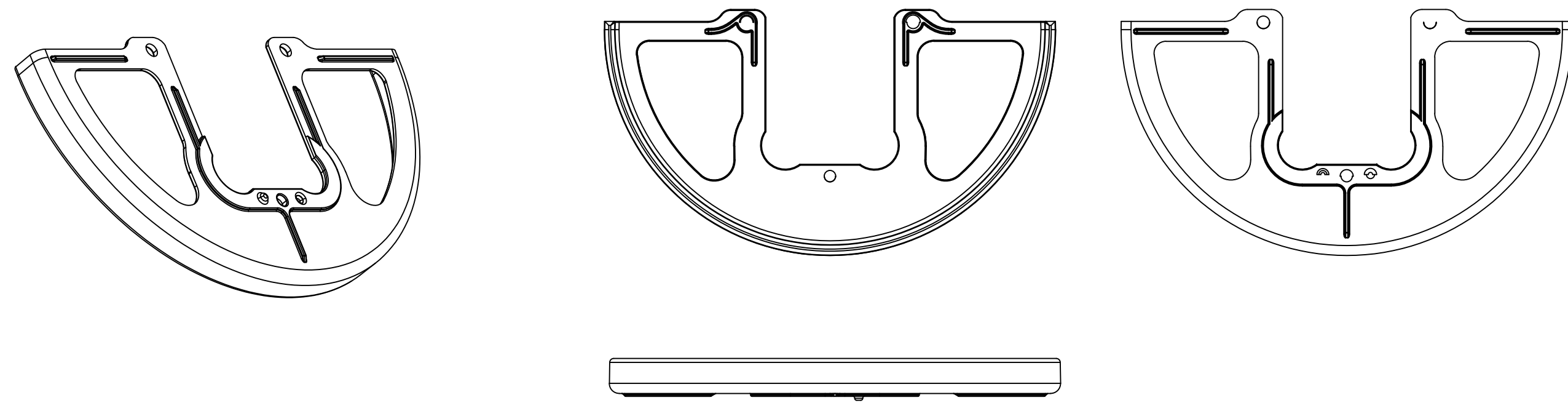
HOLD DOWN STRAP MIN THICKNESS: 0.1517" (MIN SPEC: ASTM A653, Fy = 50 KSI, Fu = 60 KSI)
(NTS)

A



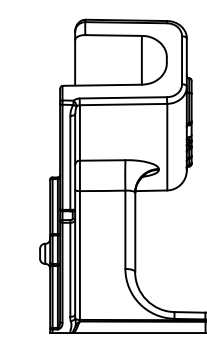
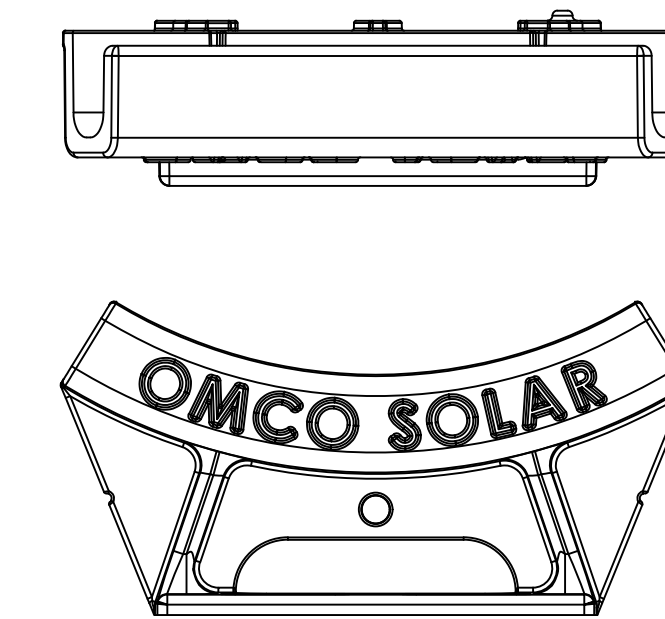
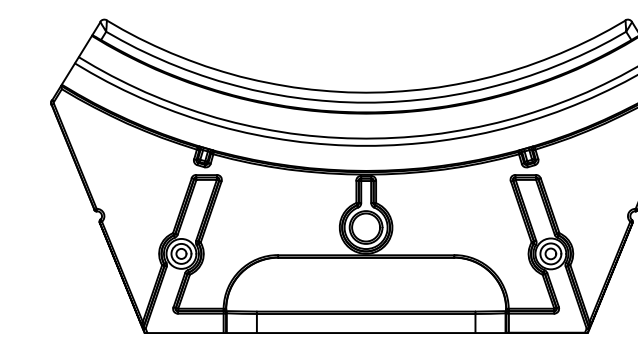
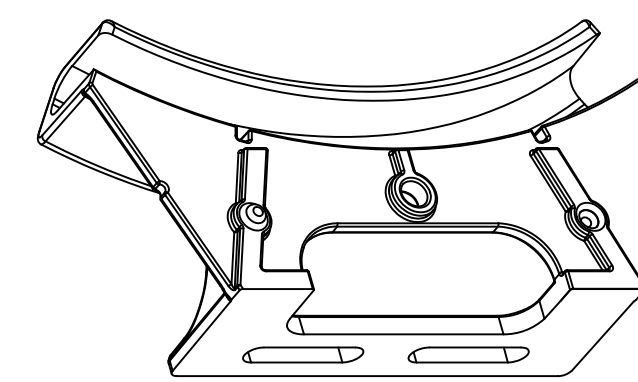
BEARING POST CAP MIN THICKNESS: 0.1800 (MIN SPEC: ASTM A653, Fy = 50 KSI, Fu = 60 KSI)
(NTS)

B



BEARING (MIN SPEC: ALUMINUM A380, Fy = 23 KSI, Fu = 47 KSI)
(NTS)

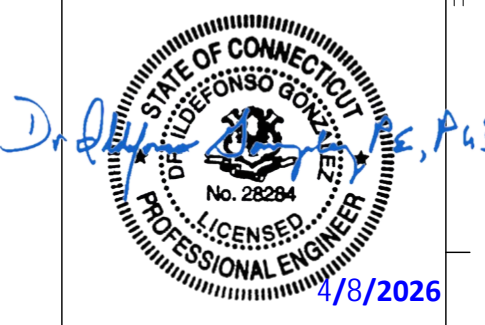
C



SADDLE BEARING (MIN SPEC: ALUMINUM A380, Fy = 23 KSI, Fu = 47 KSI)
(NTS)

D

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ARTILLERY ROAD
ARTILLERY RD
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REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION		
				INITIAL RELEASE	CUSTOMER COMMENTS	UPDATED SNOW LOAD INFORMATION
0	01/28/26	JDL	JDL			
1	03/12/26	JDL	JDL			
2	04/08/26	JDL	JDL			

PROJECT NAME:
ARTILLERY ROAD

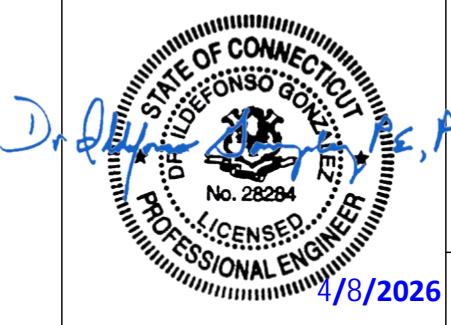
PROJECT NUMBER
10792769000

DRAWING NAME:
TRACKER COMPONENT
SPECIFICATIONS

DRAWING NUMBER:
OS4.0

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REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
0	01/28/26	JDL	JDL	INITIAL RELEASE
1	03/12/26	JDL	JDL	CUSTOMER COMMENTS
2	04/08/26	JDL	JDL	UPDATED SNOW LOAD INFORMATION

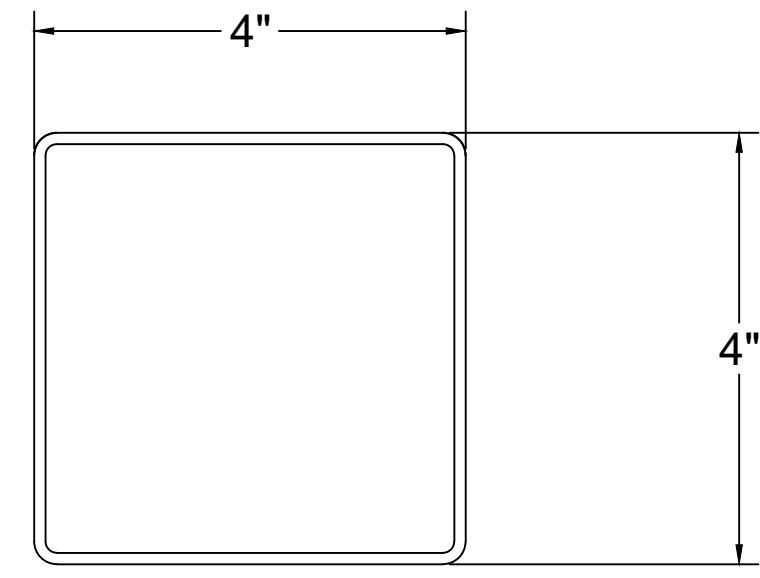
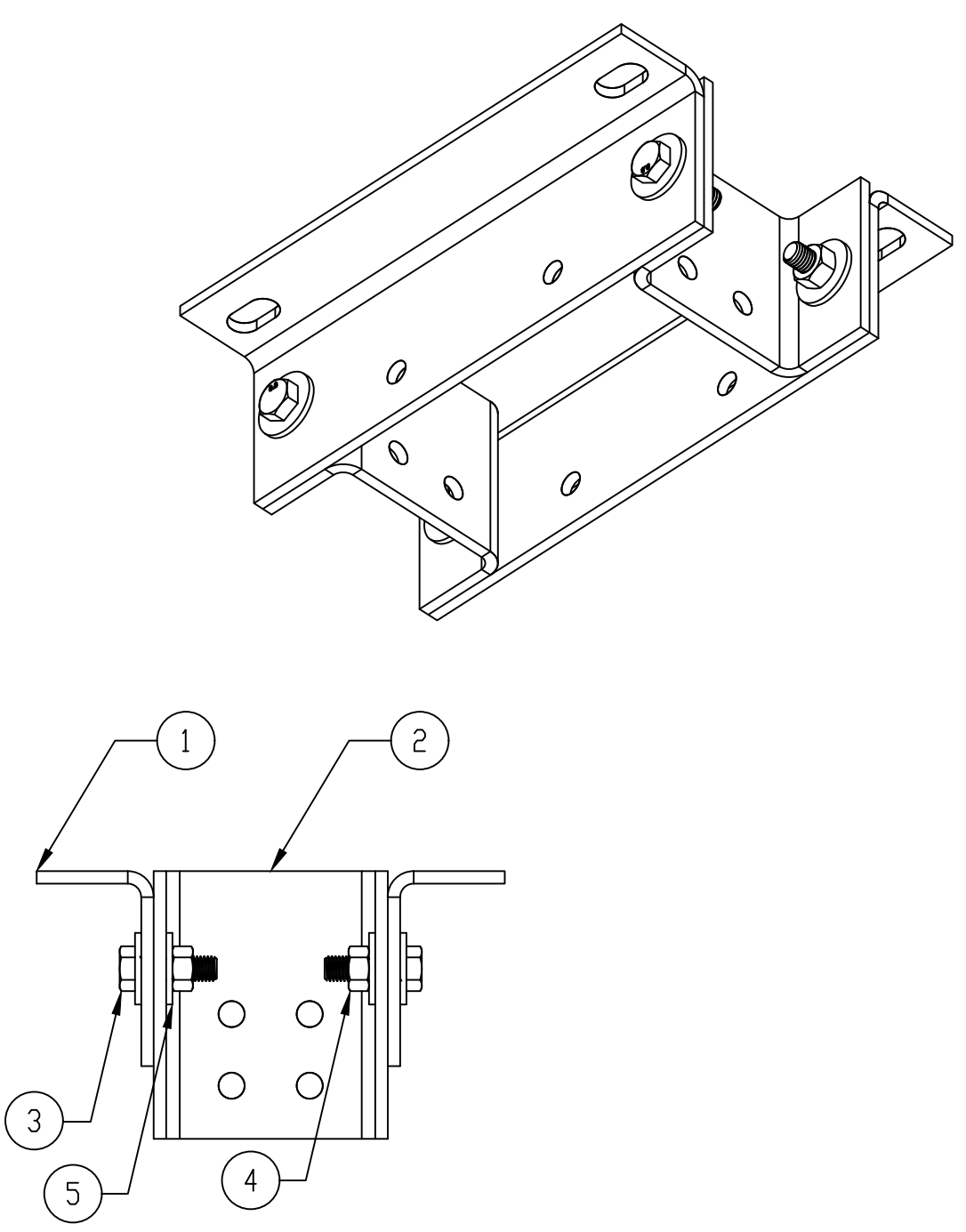
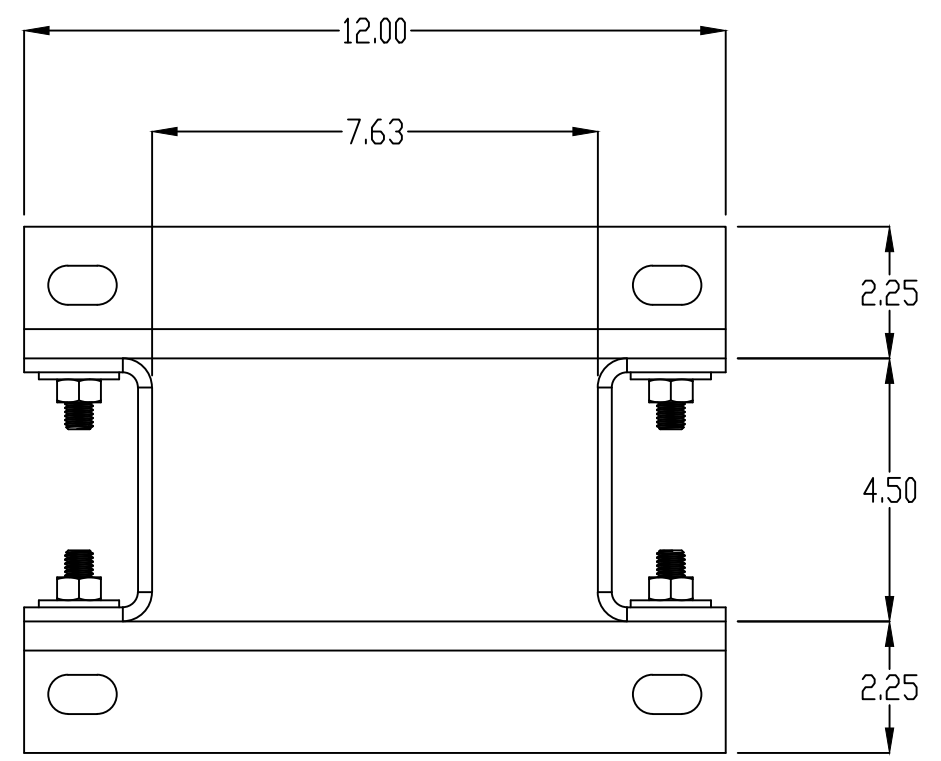
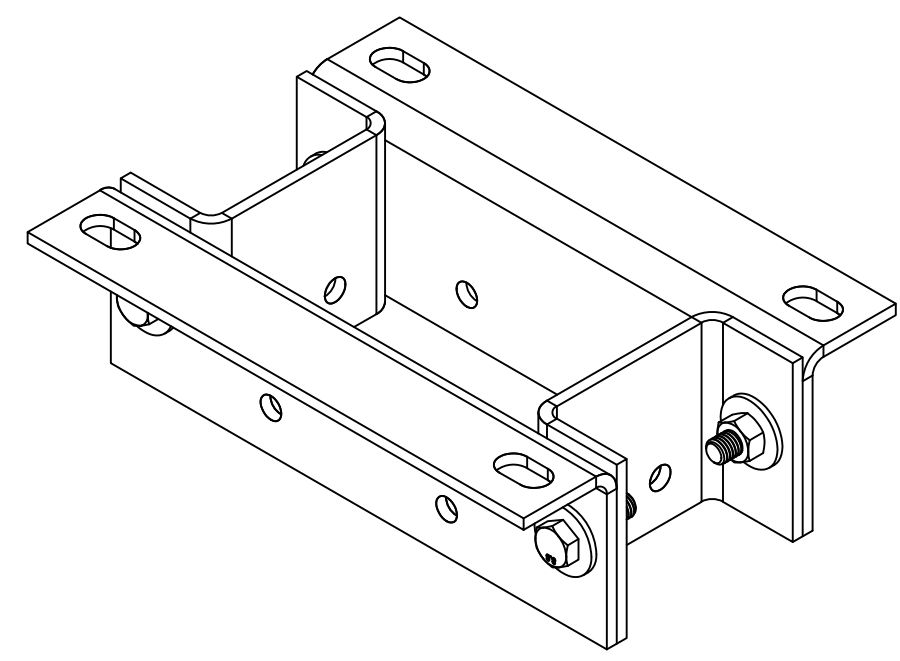
PROJECT NAME:
ARTILLERY ROAD

PROJECT NUMBER
10792769000

DRAWING NAME:
TRACKER COMPONENT SPECIFICATIONS

DRAWING NUMBER:
OS4.1

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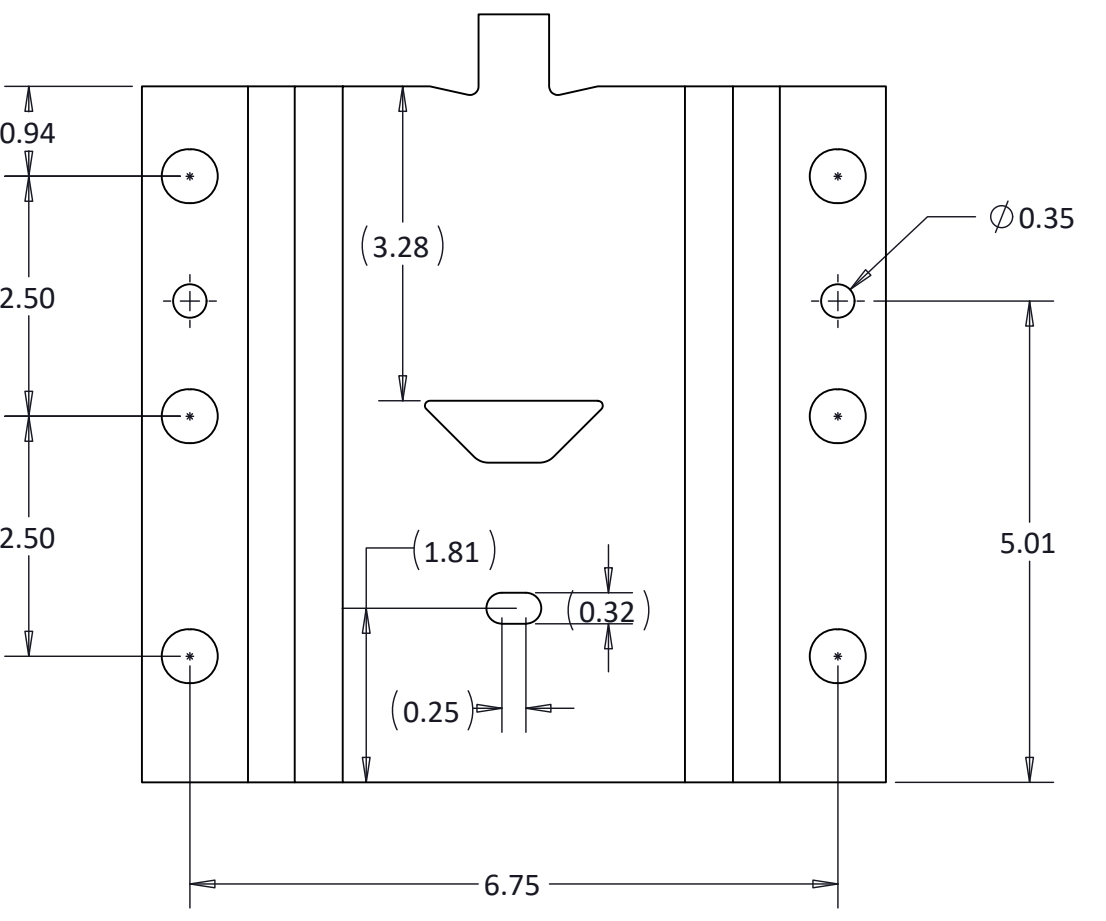
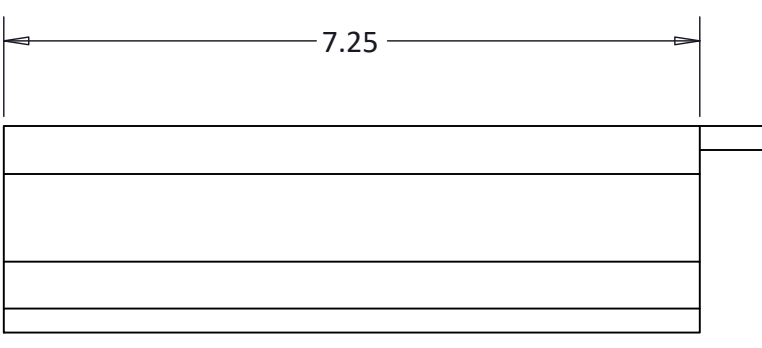
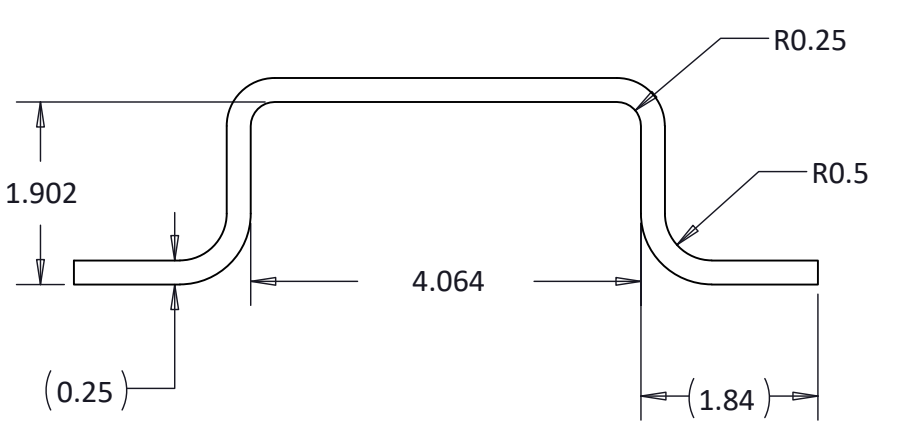
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DML-1000	DRIVE MOUNT L	2
2	DMUS-1000	DRIVE MOUNT U SLOPE	2
3	M12 NUT	M12 HEX NUT	4
4	M12X50 BOLT	M12X1.75X50mm HH BOLT	4
5	1/2" WASHER	1/2" USS FLAT WASHER	8

DRIVE MOUNT MIN THICKNESS: 0.50" (MIN SPEC: ASTM A653, Fy = 50 KSI, Fu = 60 KSI)
 (NTS)

A

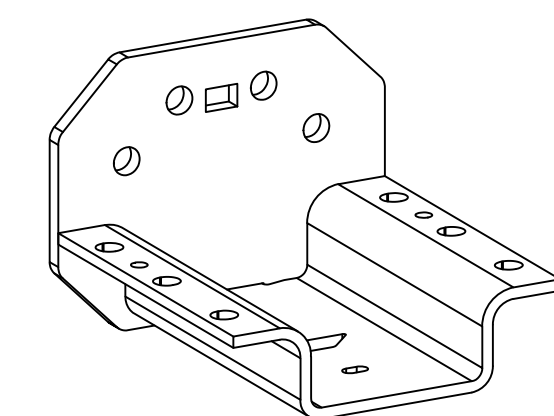
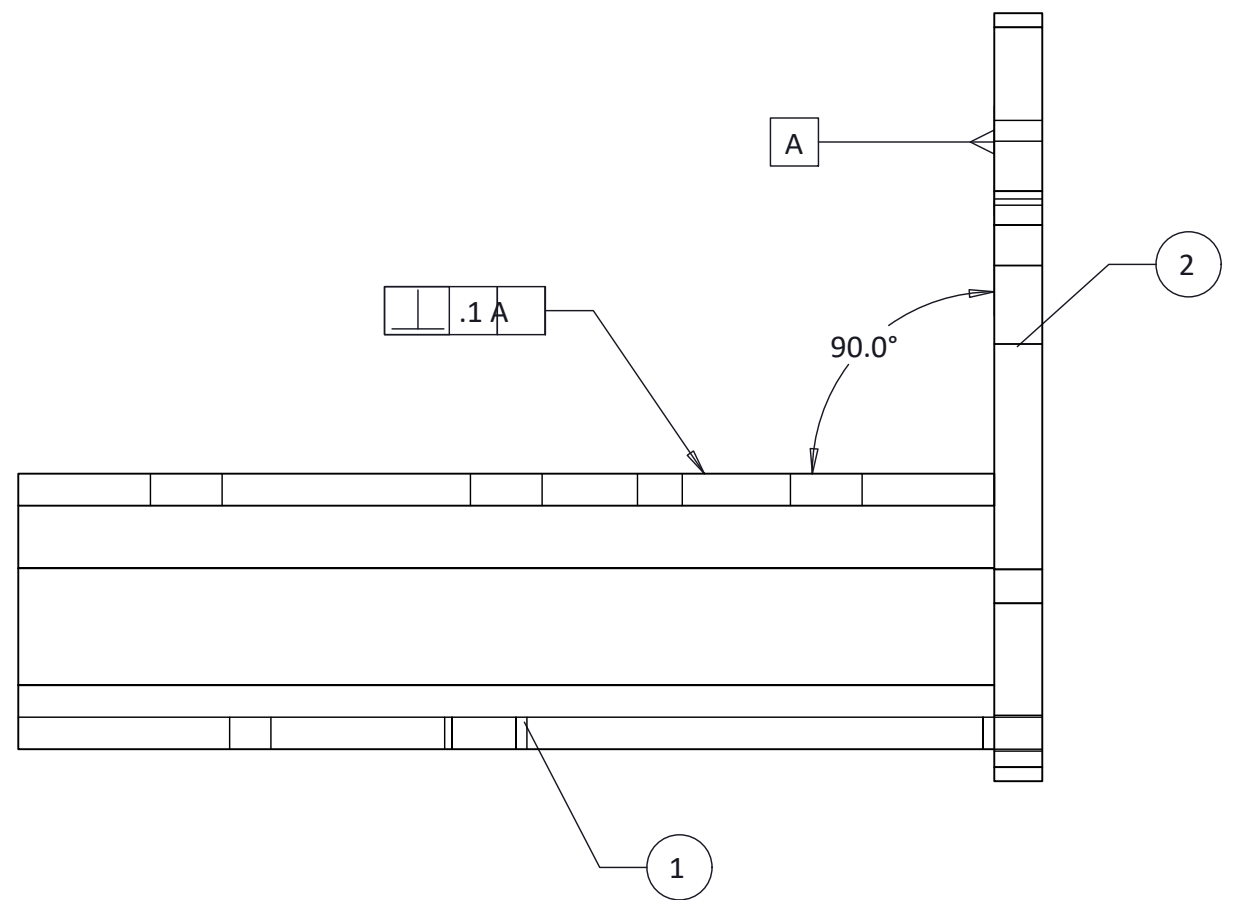
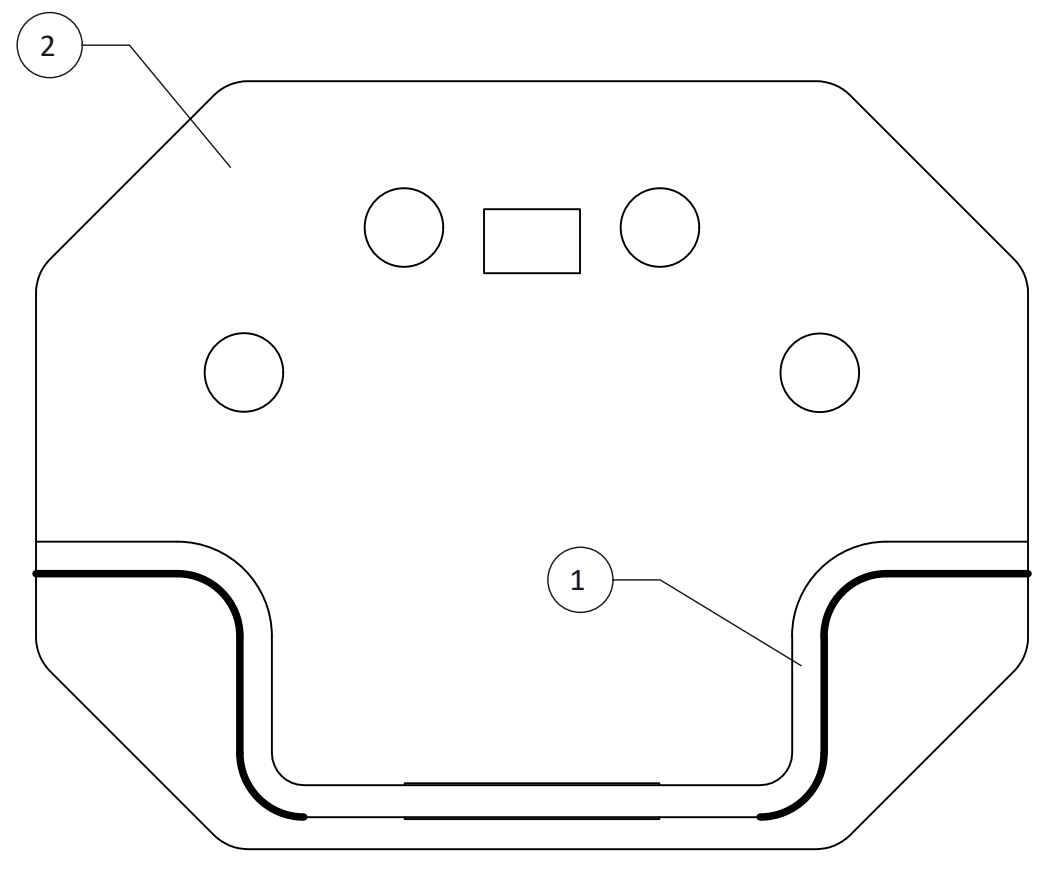
TORQUE TUBE MIN THICKNESS: 0.145" (MIN SPEC: ASTM A500, GRADE B)
 (NTS)

B



UPPER JOURNAL MIN THICKNESS: VARIES (MIN SPEC: ASTM A653, Fy = 50 KSI, Fu = 60 KSI)
 (NTS)

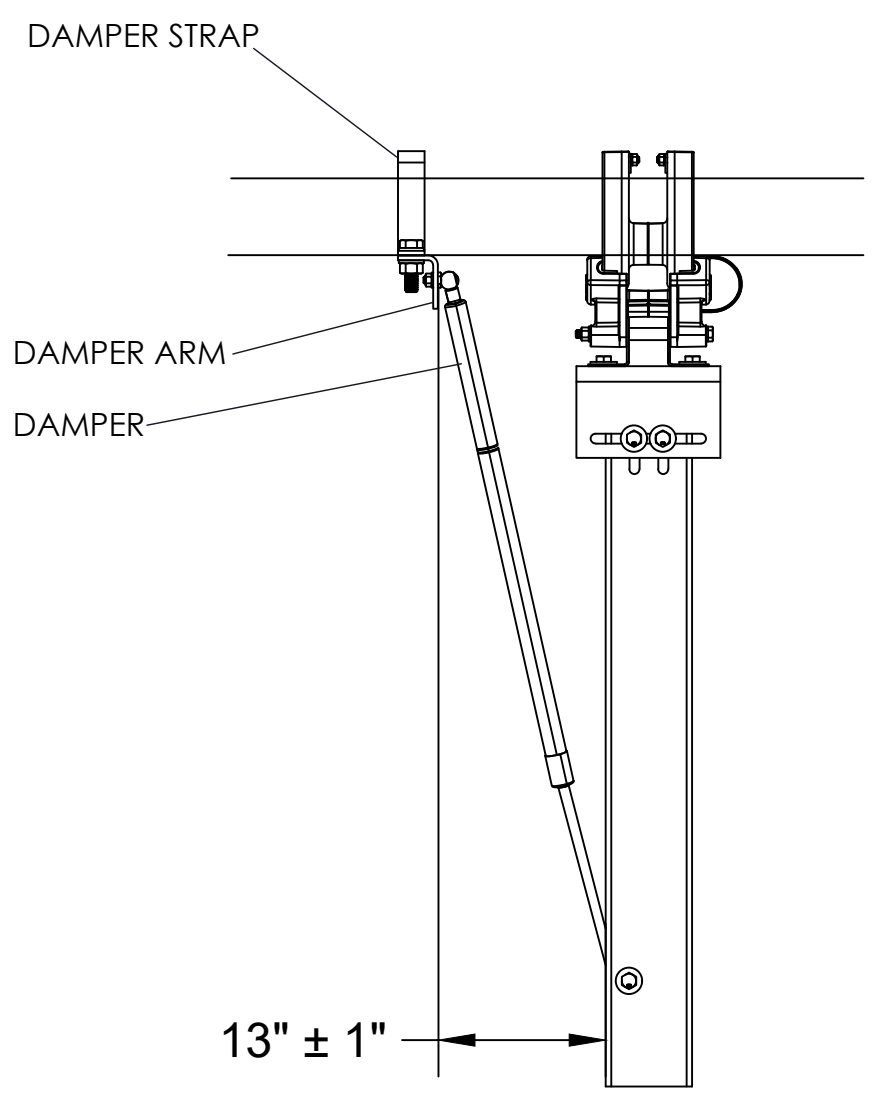
C



LOWER JOURNAL MIN THICKNESS: VARIES (MIN SPEC: ASTM A653, Fy = 50 KSI, Fu = 60 KSI)
 (NTS)

D

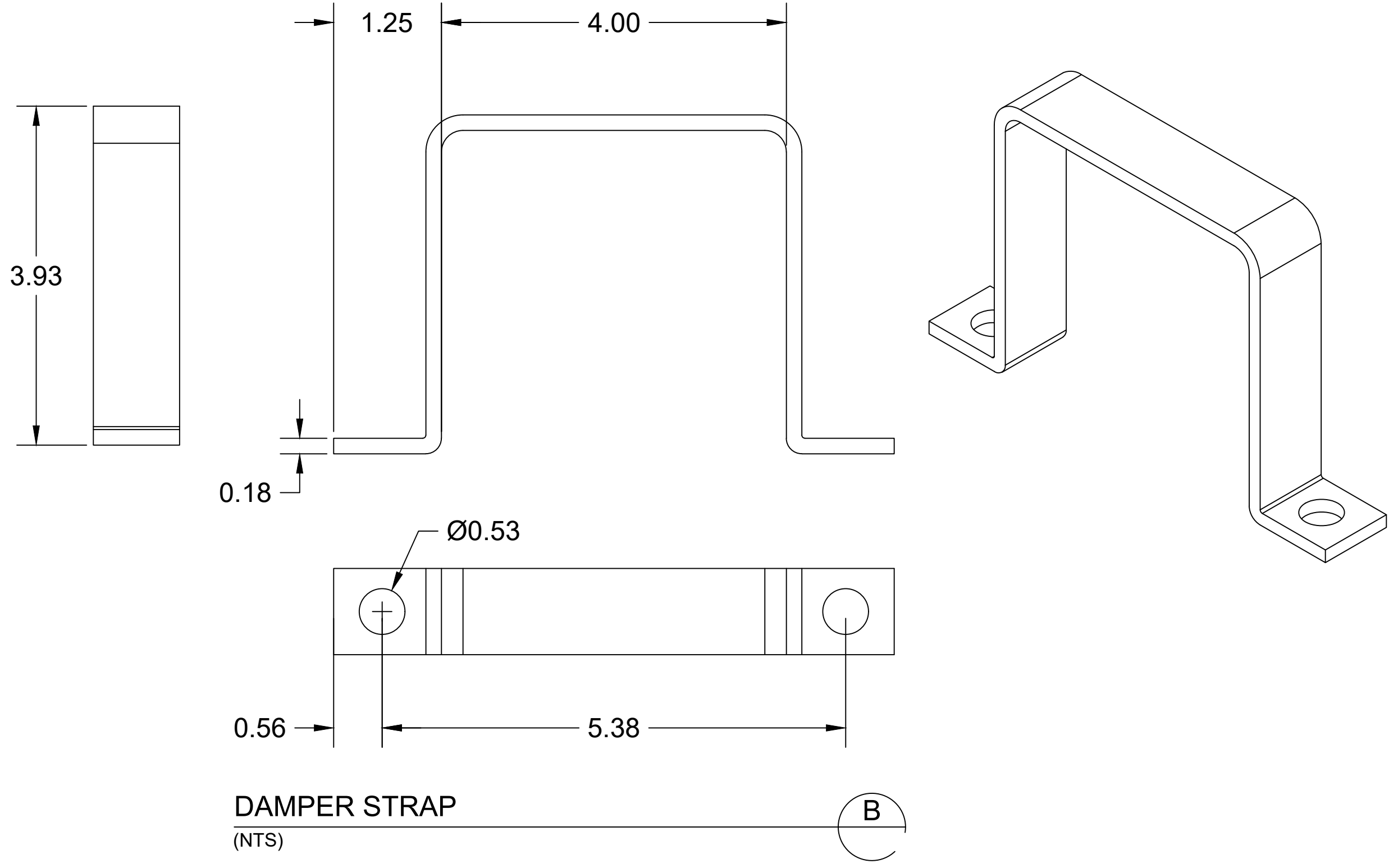
NOTE: SEE INSTALLATION GUIDE FOR DAMPER MOUNT ASSEMBLY



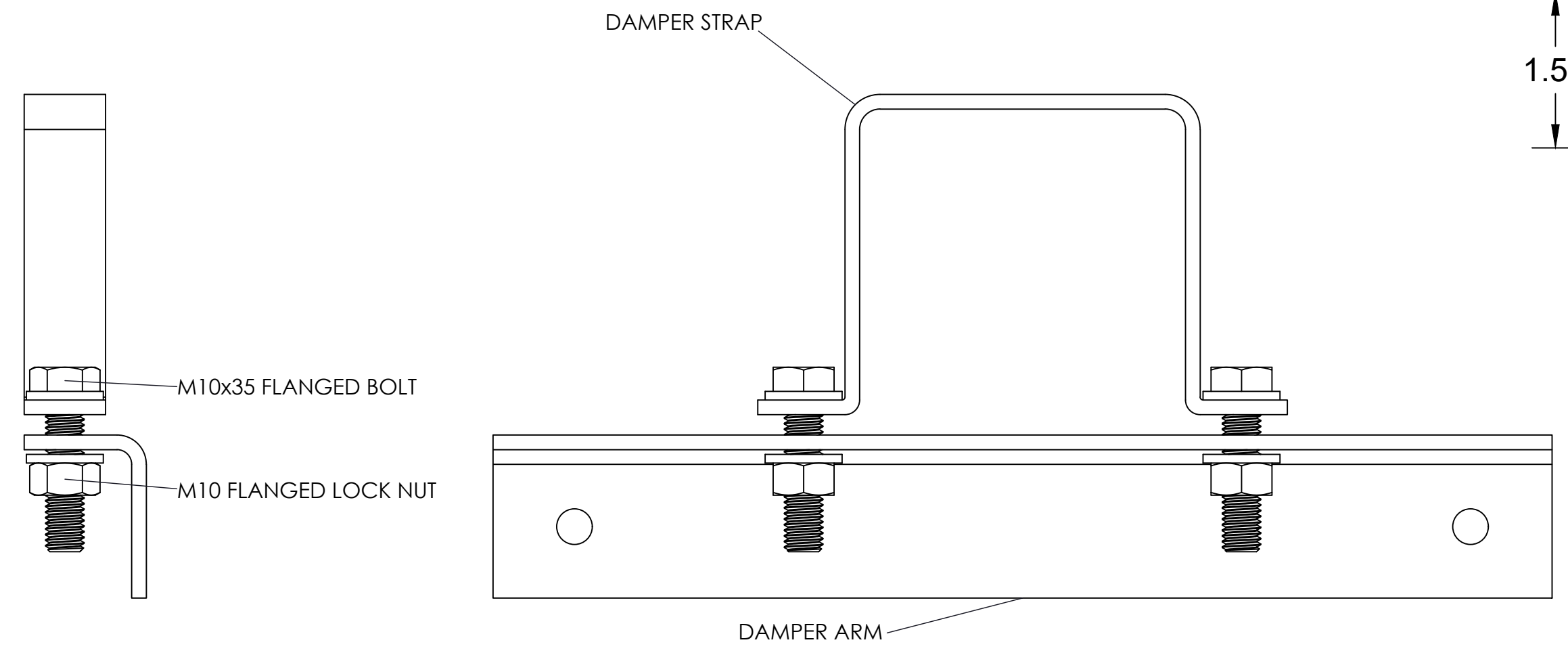
NOTE: 4 DAMPERS PER TRACKER
2 DAMPERS PER END PILE*

*FOR TRACKERS WITH 7 OR MORE TOTAL PILES, IT IS ACCEPTABLE TO MOUNT DAMPERS AT THE SECOND PILE FROM THE END

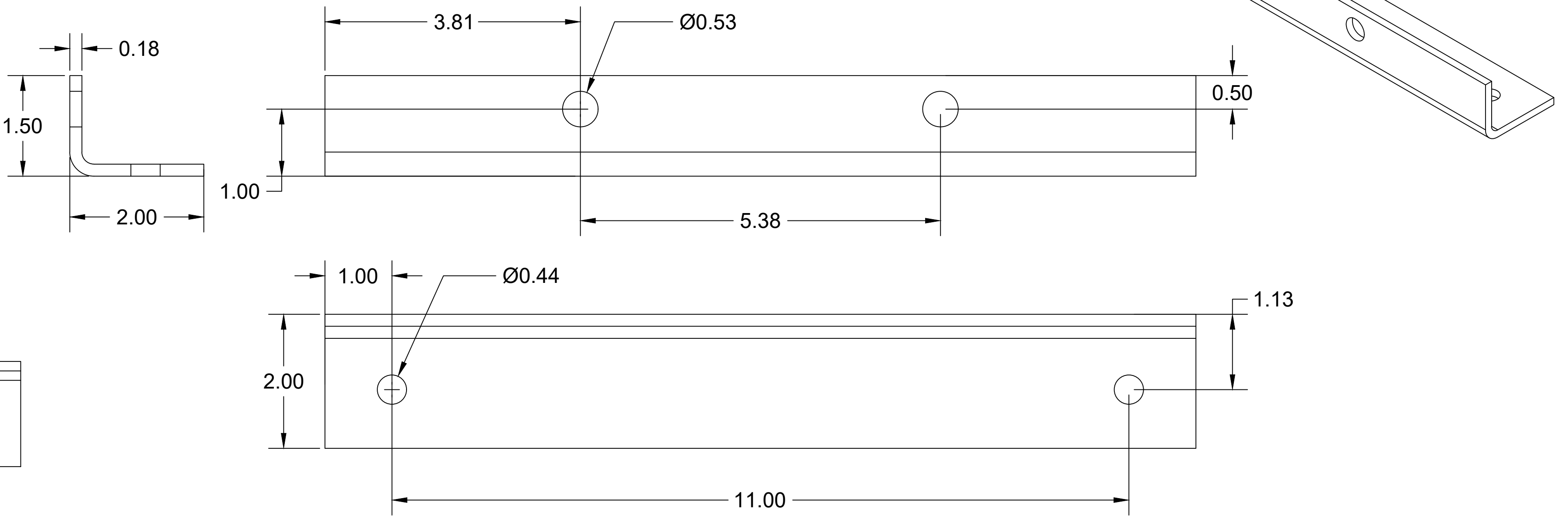
DAMPER MOUNT ASSEMBLY
(NTS) **A**



DAMPER STRAP
(NTS) **B**

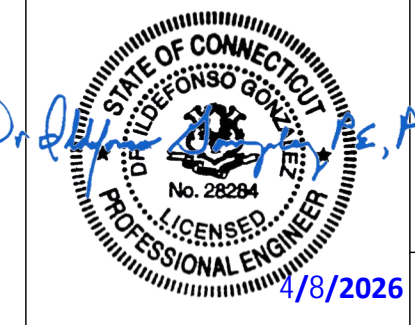


DAMPER ASSEMBLY
(NTS) **C**



DAMPER ARM
(NTS) **D**

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WOODBURY, CT 06798

RELEASE DESCRIPTION	
INITIAL RELEASE	
CUSTOMER COMMENTS	
UPDATED SNOW LOAD INFORMATION	

REV	DATE	DRAWN	CHECK
0	01/28/26	JDL	JDL
1	03/12/26	JDL	JDL
2	04/08/26	JDL	JDL

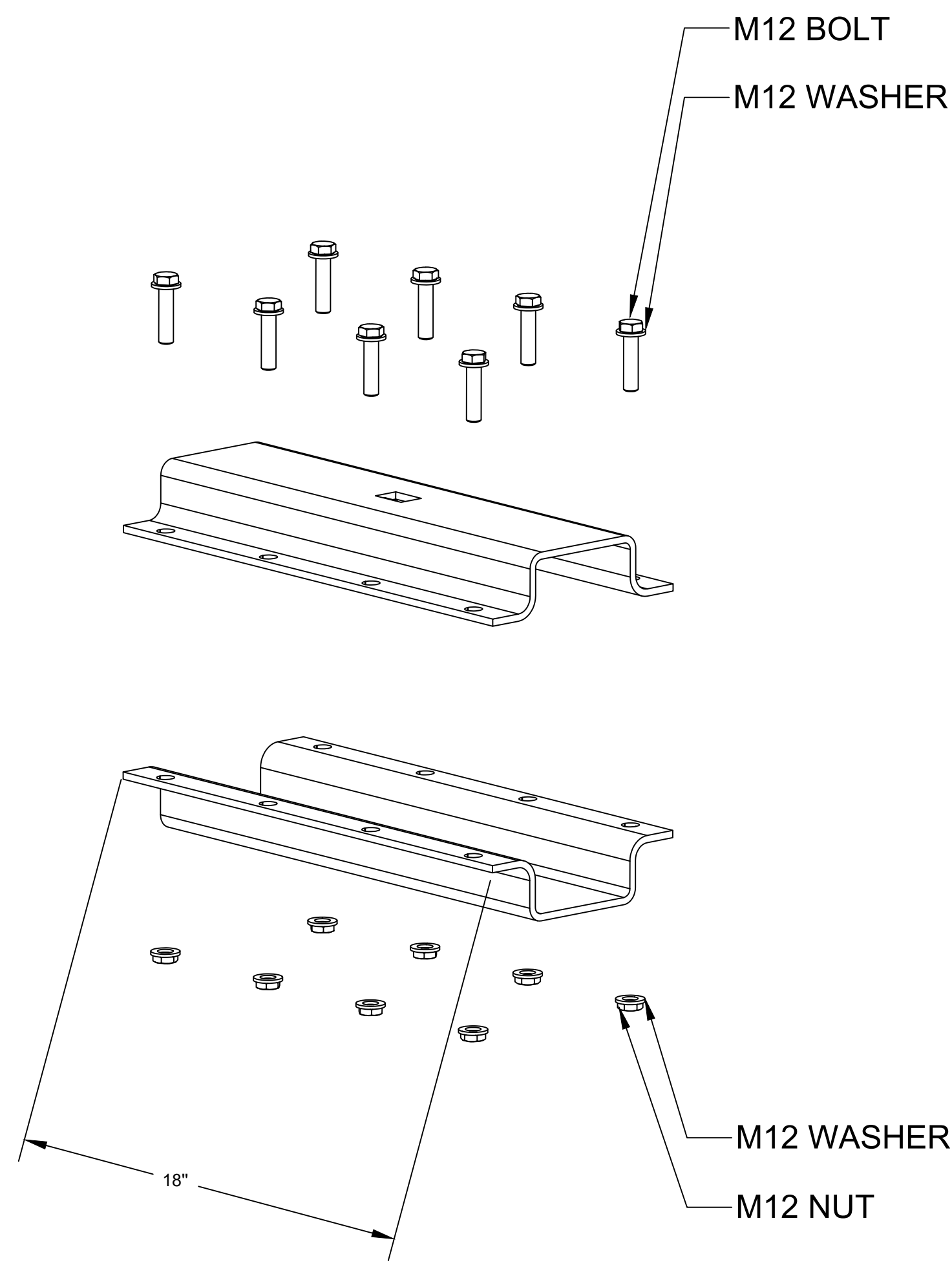
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ARTILLERY ROAD

PROJECT NUMBER:
10792769000

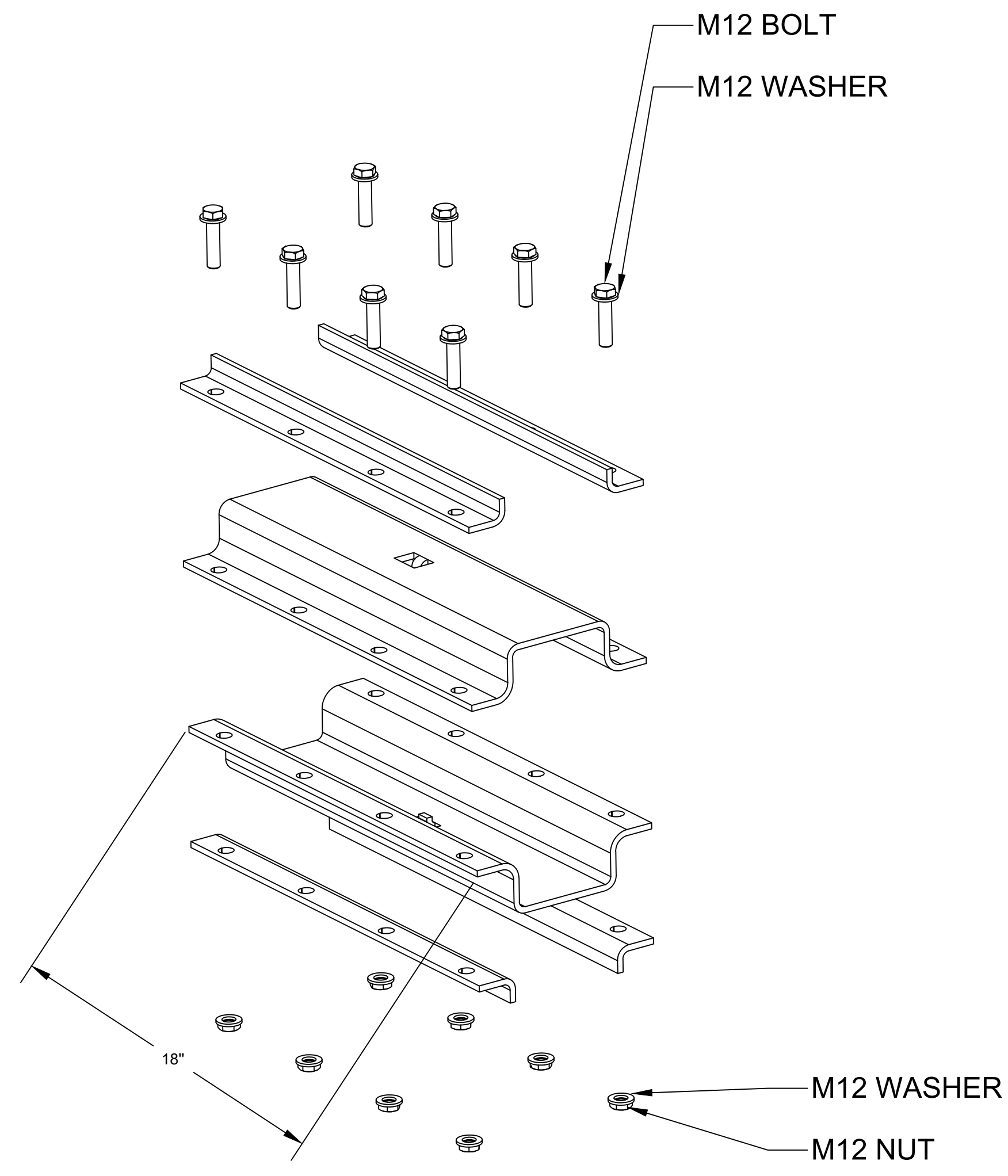
DRAWING NAME:
DAMPER MOUNT DETAILS

DRAWING NUMBER:
OS4.2

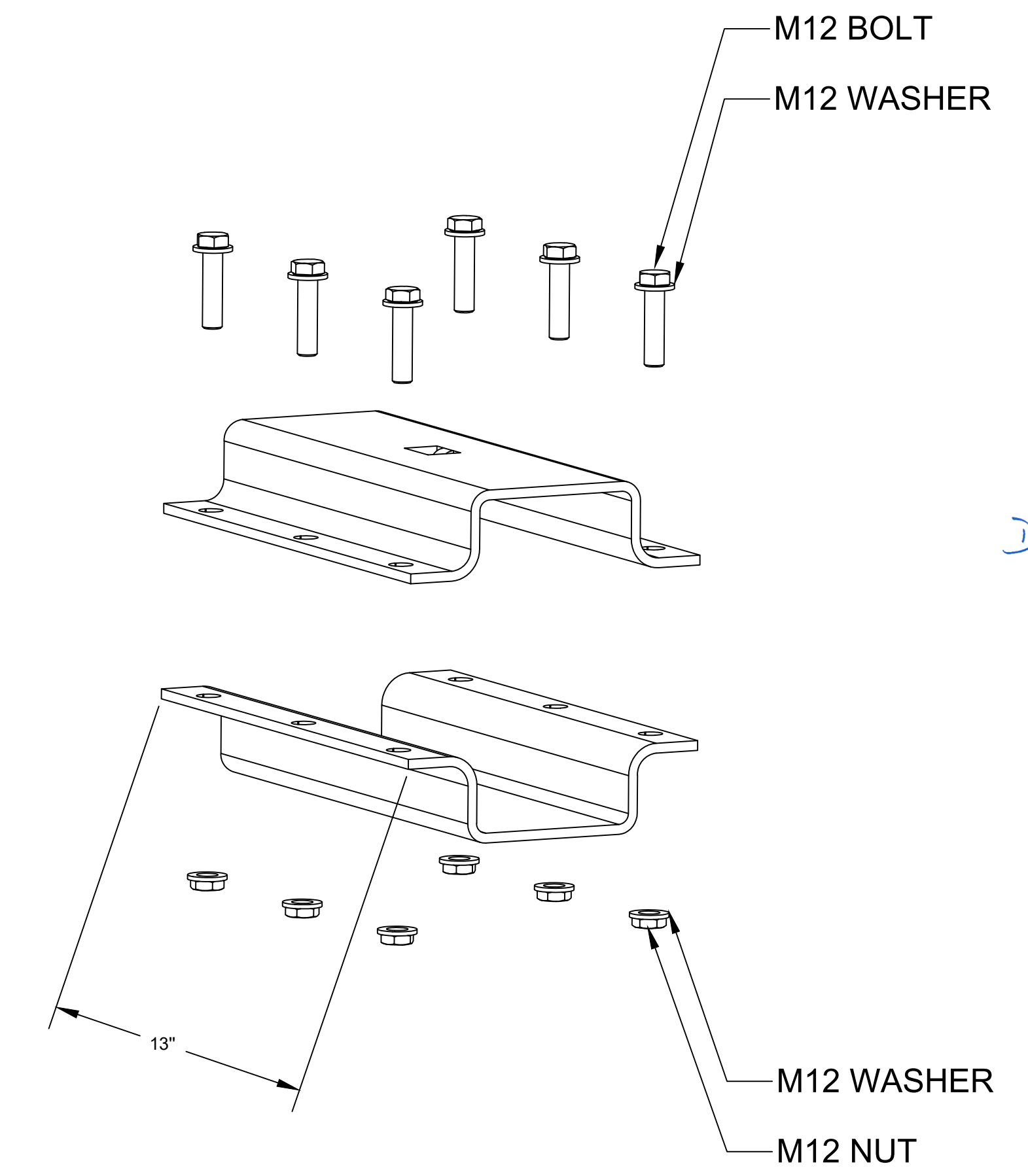
OMCO SOLAR
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PHOENIX, AZ 85043
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SPLICE
(NTS) A



MEGA SPLICE
(NTS) B



MINI SPLICE
(NTS) C

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REV	DATE	DRAWN	CHECK	RELEASE DESCRIPTION
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1	03/12/26	JDL	JDL	CUSTOMER COMMENTS
2	04/08/26	JDL	JDL	UPDATED SNOW LOAD INFORMATION

PROJECT NAME:
ARTILLERY ROAD

PROJECT NUMBER
10792769000

DRAWING NAME:
TORQUE TUBE SPLICE DETAILS

DRAWING NUMBER:
OS4.4

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