

Report Date: July 30, 2020

Client: ARE Telecom Incorporated
1043 Grand Ave #213
St. Paul, MN 55105
Attn: Dion Johnson
(651) 724-1322

Mount Type: (1) ARE Universal Tri and Quad Mount

PJF Project: A00020-0279.001.7192

Paul J. Ford and Company is pleased to submit this "**Mount Structural Rating Letter**". The purpose of this letter is to classify the above listed mount based on specific parameters. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point is not part of this document.

Analysis Criteria:

TIA Standard:	TIA-222-H
Structure Height:	400 ft
Risk Category:	II
Ultimate Wind Speed:	180 mph
Exposure Category:	C
Topographic Factor:	1.00
Design Ice Thickness:	2
Wind Speed with Ice:	60 mph
Gust Effect Factor (Gh):	1.0
Wind Direction Factor (Kd):	0.95

Based on the mount classification systems, the ARE Universal Tri and Quad Mount is classified as follows:

Mount Model	Mount Rating
Universal Tri and Quad Mount	M3050R(5000)-1[6]

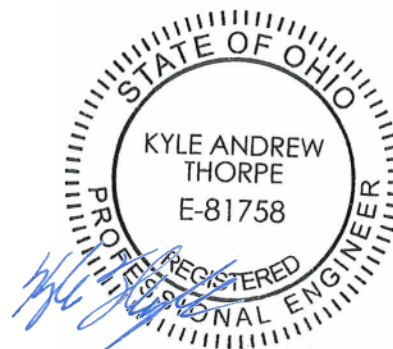
*Refer to Table 3 for detailed information

We at Paul J. Ford and Company appreciate the opportunity of providing our continuing professional services to you and ARE Telecom Incorporated. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully Submitted by:
Paul J. Ford and Company


Jared Forbes, E.I.
Structural Designer
jforbes@pauljford.com

KAT



07/30/2020

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1) INTRODUCTION

At the request of ARE, Paul J. Ford & Company performed calculations to determine the mount classification of the Universal Tri and Quad Mount.

The Universal Tri and Quad Mounts are sectorized standoff mounts . The mount centerline is the midpoint between the two collar weldment assemblies. Equipment is considered to be installed directly onto the pipe mounts.

2) ANALYSIS CRITERIA

TIA Standard:	TIA-222-H
Structure Height:	400 ft
Risk Category:	II
Ultimate Wind Speed:	180 mph
Exposure Category:	C
Topographic Factor:	1.00
Design Ice Thickness:	2
Wind Speed with Ice:	60 mph
Gust Effect Factor (G _h):	1.0
Wind Direction Factor (K _d):	0.95

For structures or locations that exceed the above limitations, the Mount Classification Specification allows for and requires mounts to be designed for the following maximum design values:

Maximum Factored Wind Pressure:	135 psf
Maximum Escalated Ice Thickness (T _{iz}):	2.75 inches
Maximum Factored Wind Pressure w/ Ice:	15 psf

3) ANALYSIS PROCEDURE

Table 1 – Documents Provided

Document	Remarks	Reference	Source
Mount Manufacturer Drawings	ARE	Tri and Quad Mount Assemblies	PJF

3.1) Analysis Method

RISA-3D (version 17.0.3), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix C.

3.2) Modeling and Applied Appurtenance Loading

The mount was analyzed for conditions with (1) antenna load per sector. It is assumed that all antenna mounting arrangements are equal spacing with a maximum of 6" vertical offset from the centerline of the mount. There are three categories of mounts per the Mount Classification Specification: Categories R, A, and L. This mount was classified as a Category R mount. Category R mounts are intended to support mounting configurations where the effective projected areas (EPA) of the front and side faces at the mounting point are similar. For example, panel antennas that are mounted back-to-back or single panel antennas with radio equipment or other appurtenances mounted behind the antenna. Category R mounts are also intended to support heavier vertical loads.

Per the Mount Classification Specification, a mount is classified by designating a letter M followed by the following:

- The factored maximum horizontal concentrated force, F , supported on each mounting pipe location
- The mount category, R, A, or L based on the intended usage.
- The factored maximum vertical force due to ice, (F_{zi})
- The number of antenna mounting pipes
- The allowable vertical centerline offset from the mount
- The forces shall be designed in 50 lbs increments

3.3) Structural Steel Material

ARE has provided the following material grades:

Steel shall be galvanized per ASTM A123 and conform to the following specs:

- | | |
|---------------------------------------|----------------|
| a) HSS (Rectangular) | 50 ksi |
| b) Pipe | 50 ksi |
| c) Bent Plate Members (3/16" to 1/2") | 50 ksi |
| d) Connection Bolts | ASTM A325 |
| e) Solid Round, Plate | 50 ksi |
| f) U-Bolts | SAE J429 (GR2) |

3.4) Assumptions

- 1) *The mount attachment to the structure/tower is not within the current scope of work.*
- 2) *All member connections have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report. All U-Bolt connections have been properly tightened.*
- 3) *All welded connections on the mount shall conform to the latest revised code of the American Welding Society, AWS D1.1.*

This assessment may be affected if any assumptions are not valid or have been made in error. Paul J Ford and Company should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 2 – Mount Classifications - Max Appurtenance Load

Mount Model	Mount Classification	Max Normal Horizontal Load (lbs)	Max Transverse Horizontal Load (lbs)	Max Vertical Load w/ Ice (lbs)
Universal Tri and Quad Mount	M3050R(5000)-1[6]	3050	3050	5000

Note: The max normal and transverse loads are representative of an extreme wind condition. The max vertical load with ice is representative of an extreme ice condition. The maximum loads listed are factored loads applied at (1) mast pipe location per sector in accordance with TIA-5053

Table 3 – Mount Classifications – Max Appurtenance EPA

Mount Model	Max EPA (sqft)				
	180 mph Ult Wind Speed	150 mph Ult Wind Speed	130 mph Ult Wind Speed	110 mph Ult Wind Speed	90 mph Ult Wind Speed
Universal Tri and Quad Mount	11.3	16.4	21.8	30.5	44.9

Note: The max appurtenance EPA following analysis criteria in Section 2 of this report with varying ultimate wind speeds assuming a Force Coefficient (Ca) of 2.0.

Table 4 – Mount Effective Projected Areas and Weights

Mount Model	Mount EPA _N w/ No Ice (ft ²)	Mount EPA _T w/ No Ice (ft ²)	Mount EPA _N w/ 1/2" Ice (ft ²)	Mount EPA _T w/ 1/2" Ice (ft ²)	Weight (lbs)	Weight w/ 1/2" Ice (lbs)
Universal Tri Mount – 36" Standoff	13.81	14.32	17.41	17.91	989	1175
Universal Tri Mount – 24" Standoff	12.58	12.90	16.20	16.51	896	1064
Universal Tri Mount – 12" Standoff	11.36	11.48	14.99	15.11	795	854
Universal Quad Mount – 36" Standoff	18.16	18.16	22.93	22.93	1314	1561
Universal Quad Mount – 24" Standoff	16.58	16.58	21.37	21.37	1190	1414
Universal Quad Mount – 12" Standoff	14.99	14.99	19.81	19.81	1056	1266

* (1) 2.875" diameter x 168" long mount pipe per sector

**STANDARD CONDITIONS FOR FURNISHING OF PROFESSIONAL ENGINEERING
SERVICES ON EXISTING MOUNTS BY PAUL J. FORD AND COMPANY**

- 1) It is the responsibility of the client to ensure that the information provided to Paul J. Ford and Company is accurate and complete. Paul J. Ford and Company will rely on the accuracy and completeness of such information in performing or furnishing services under this project.
 - 2) If the existing conditions are not as represented on the referenced drawings and/or documents, Paul J. Ford and Company should be contacted immediately to evaluate the significance of the deviation.
 - 3) The mount has been analyzed according to the minimum design loads recommended by the Reference Standard. If additional design loads are required, Paul J. Ford and Company should be made aware of this prior to the start of the project.
 - 4) The standard of care for all Professional Engineering Services performed or furnished by Paul J. Ford and Company under this project will be the skill and care used by members of the Consultant's profession practicing under similar circumstances at the same time and in the same locality.
 - 5) All Services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Paul J. Ford and Company is not responsible for the conclusions, opinions and/or recommendations made by others based on the information supplied herein.
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APPENDIX A

MANUFACTURER ASSEMBLY DRAWINGS

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STANDARD ANTENNA MOUNT

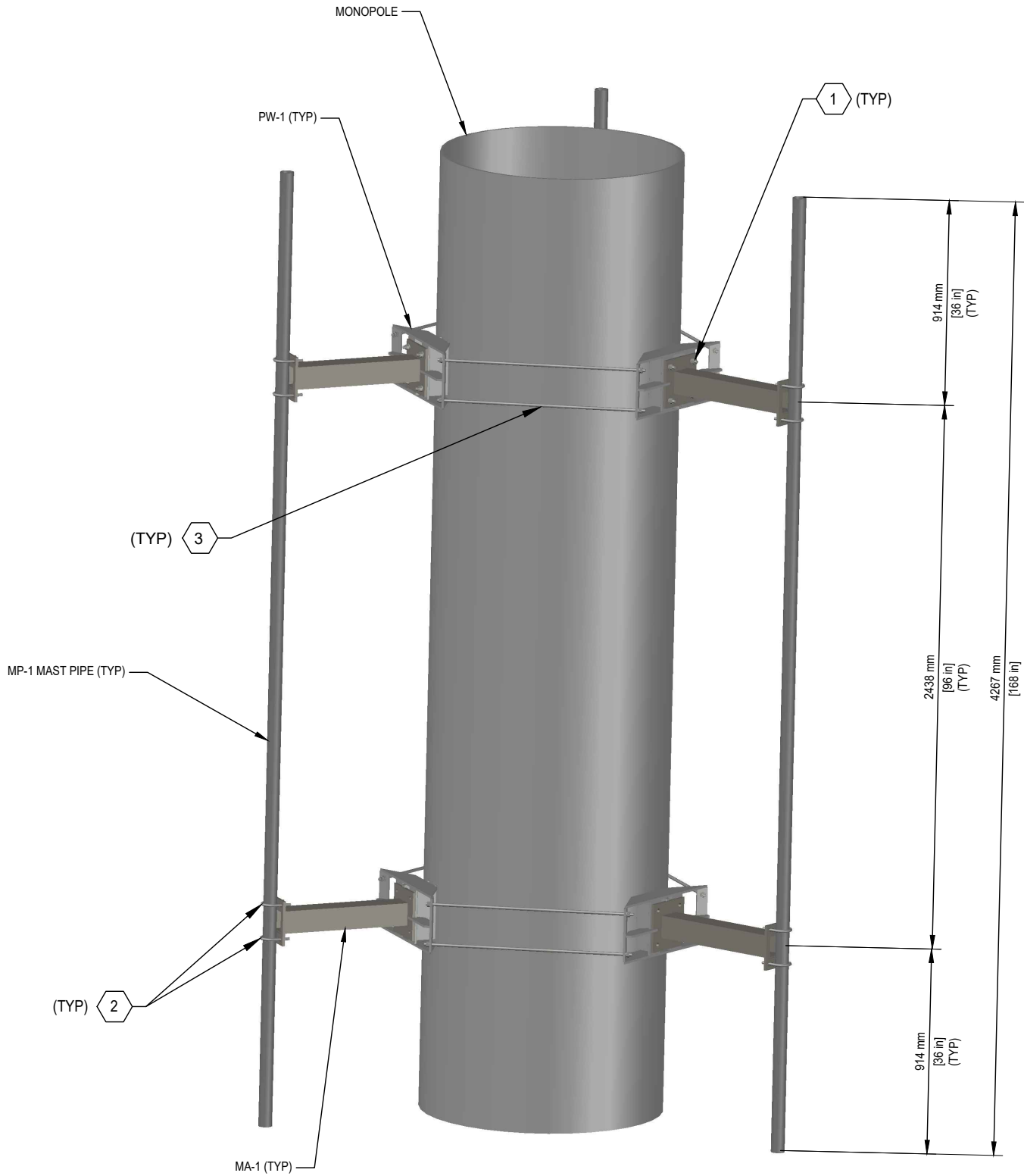
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DESIGNED BY:	KAT
CHECKED BY:	JGF
DATE:	7-17-2020

TRI MOUNT
ELEVATION
ASSEMBLY

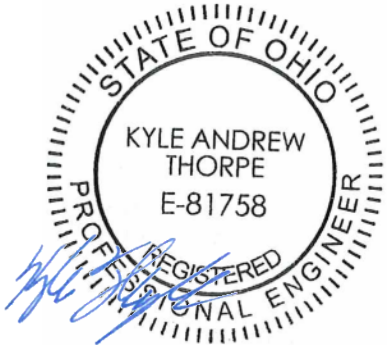
E-1

FOR MATERIAL LIST
SEE SHEET E-3 OR E-4



ANTENNA MOUNT ASSEMBLY ELEVATION

1
E-1



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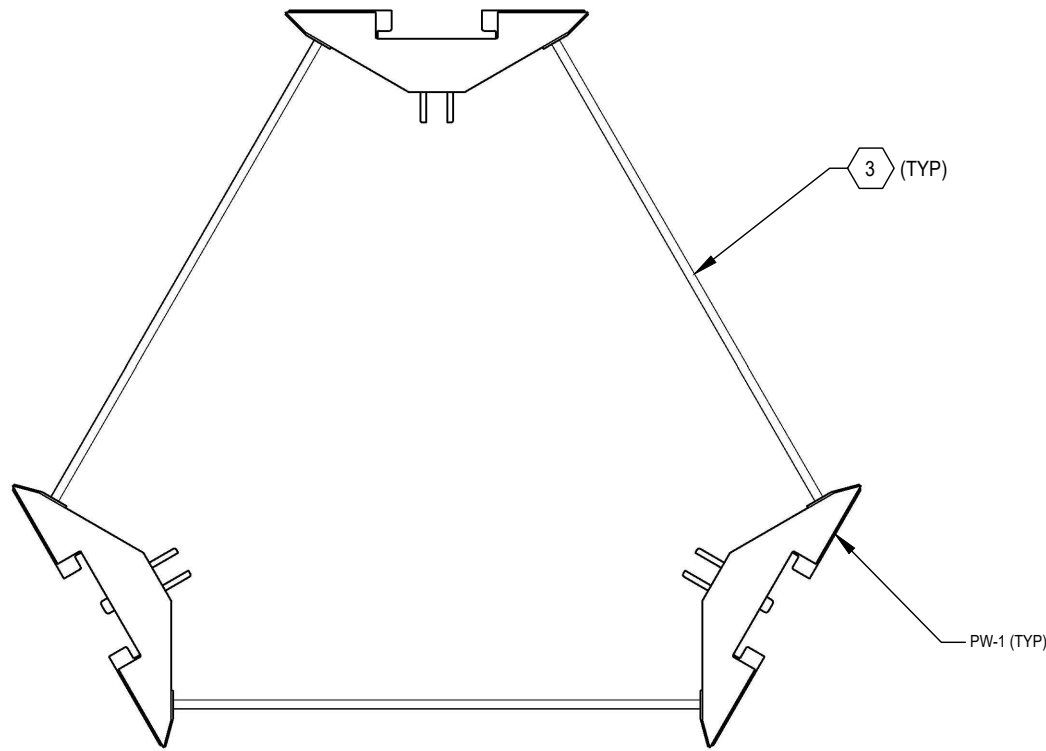
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TRI OR QUAD MOUNT

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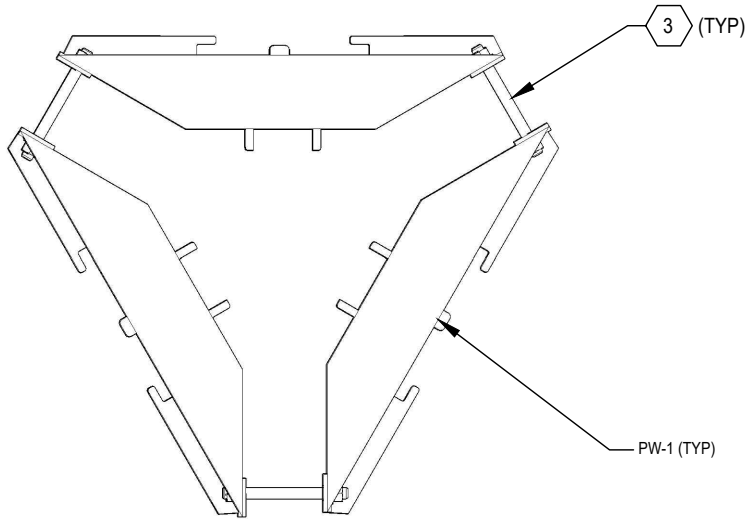
TRI MOUNT
ARM

E-2

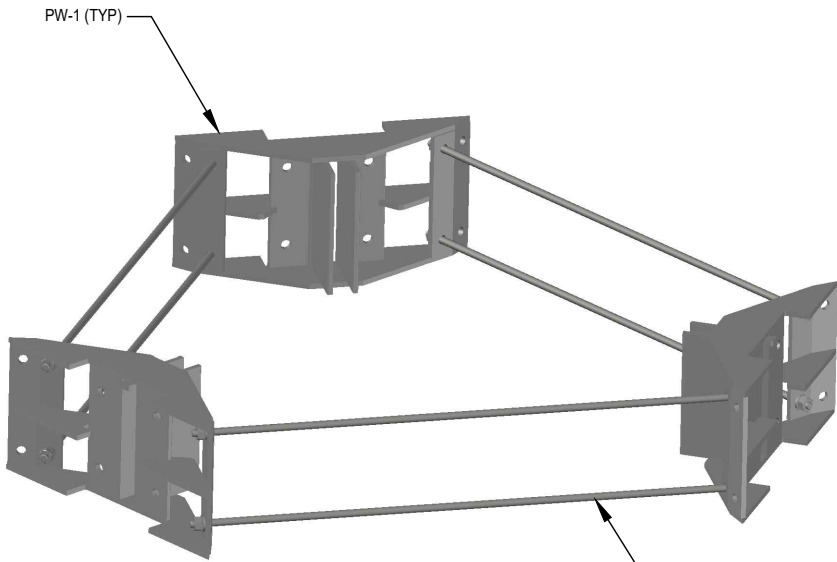
FOR MATERIAL LIST SEE SHEET E-3



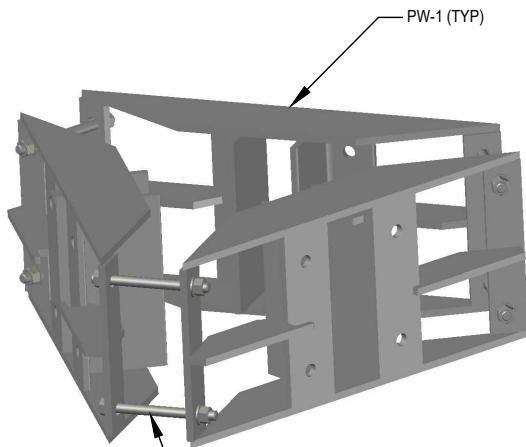
TRI-MOUNT 1
E-2



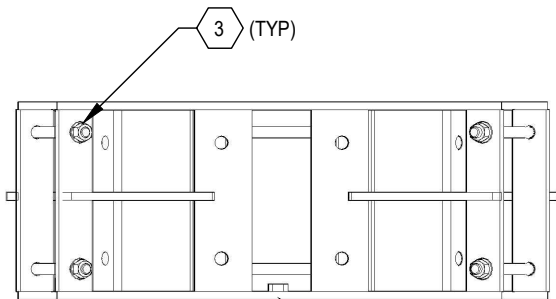
TRI-MOUNT 2
E-2



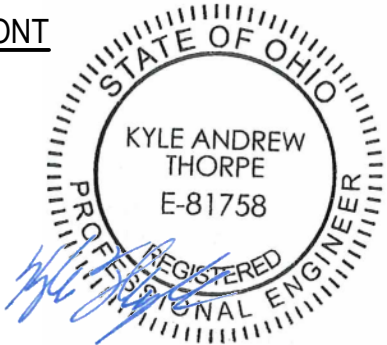
TRI-MOUNT ISO
42" OD POLE



TRI-MOUNT ISO
9" OD POLE



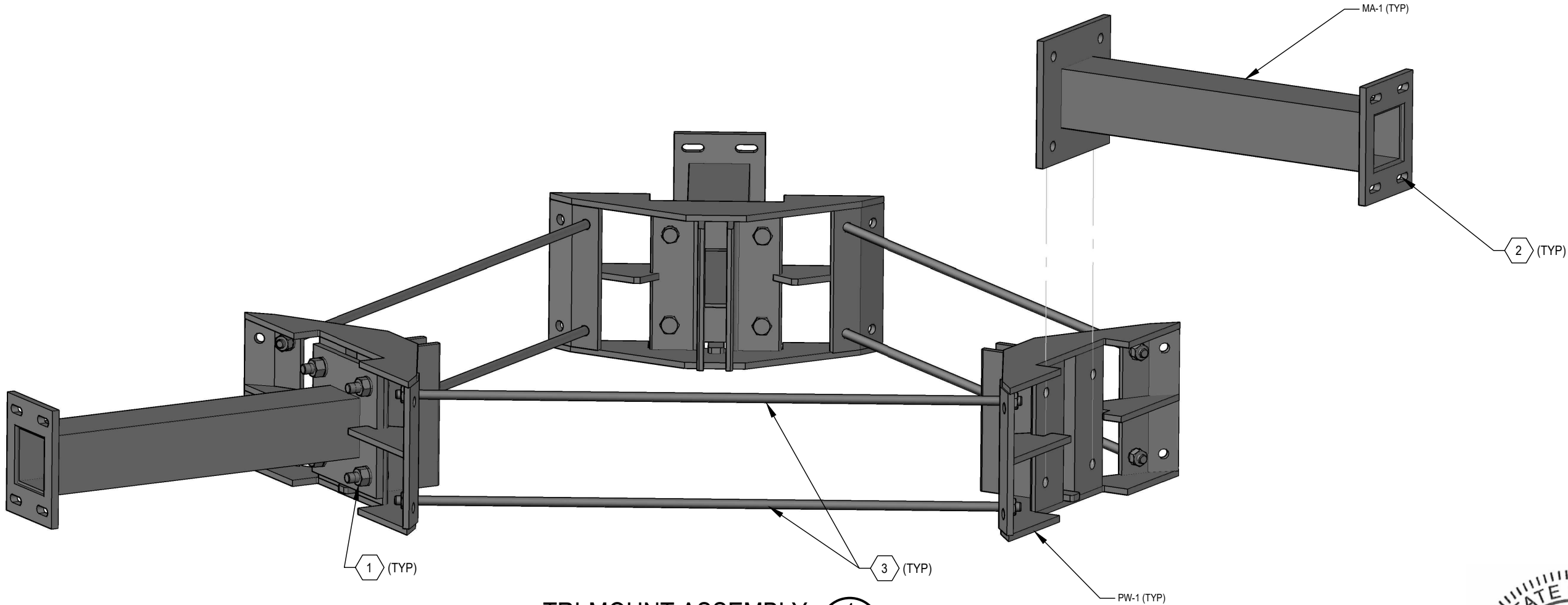
TRI-MOUNT FRONT
9" OD POLE



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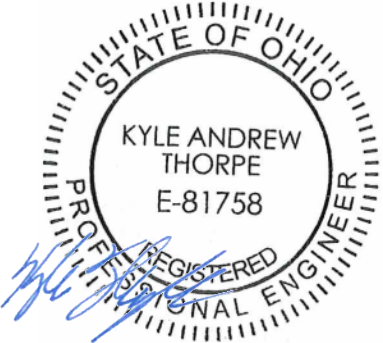
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TRI-MOUNT ASSEMBLY 1 E-3

TRI-MOUNT MATERIAL LIST (PER ELEVATION)				
MARK	QTY	MATERIAL	LENGTH	WEIGHT
MA-1	6	MOUNT ARM	305 mm [12.00"]	84 kg [186 LBS]
PW-1	6	PLATE WELDMENT	-	135 kg [298 lbs]
MP-1	3	MAST PIPE 73 mm OD x 5 mm THK [2.875" OD x 0.203" THK]	4267 mm [168"]	111 kg [243 lbs]
1	24	M16 x 2 GR 8.8 w/ (2x) WASHER AND (1x) 2H HEAVY HEX NUT	50 mm [2"]	6 kg [14 lbs]
2	12	12 mm U-BOLTS w/ (2x) NUT & WASHER FOR PIPE SIZE (OD)	53 mm TO 100 mm [2" TO 4"]	-
3	12	M16 x 2 GR 8.8 w/ (2x) FLAT WASHER, SPLIT WASHER AND (1x) 2H HEAVY HEX NUT	* 950 mm [38"]	14 kg [30 lbs]
				TOTAL STEEL WEIGHT 350 kg [772 lbs]
				TOTAL WEIGHT WITH HARDWARE AND (3% ADDITIONAL FOR) GALVANIZING 361 kg [795 lbs]

* FOR A 42" OD POLE. LENGTHS VARIES PER MONOPOLE DIAMETER, FIELD CUT EXCESS AS NEEDED FOR FIT UP.



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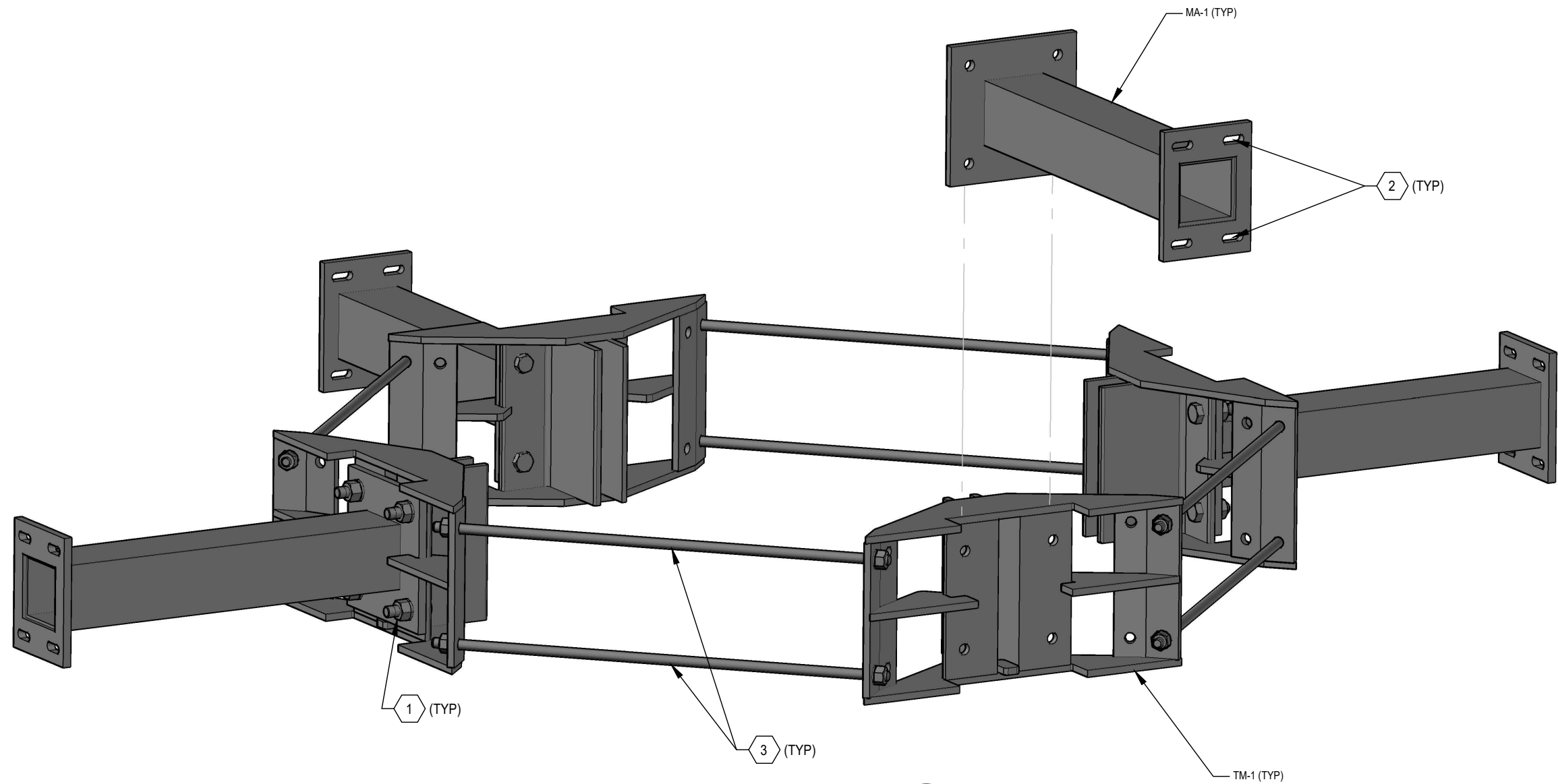
STANDARD ANTENNA MOUNT
TRI OR QUAD MOUNT

PROJECT No:	00020-0279.001.7192
DRAWN BY:	TAN/RMK
DESIGNED BY:	KAT
CHECKED BY:	JGF
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TRI MOUNT
STAND OFF ARM
ASSEMBLY

E-3

V1.0 00020-0279.001.DWG

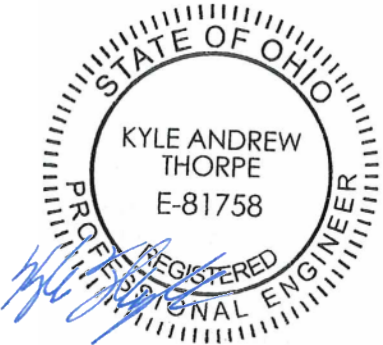


QUAD-MOUNT ASSEMBLY

1
E-4

QUAD-MOUNT MATERIAL LIST (PER ELEVATION)				
MARK	QTY	MATERIAL	LENGTH	WEIGHT
MA-1	8	MOUNT ARM	305 mm [12.00"]	112 kg [247 LBS]
PW-1	8	PLATE WELDMENT	-	180 kg [397 lbs]
MP-1	4	MAST PIPE 60 mm OD x 4 mm THK [2.375" OD x 0.154" THK]	4267 mm [168.00"]	147 kg [324 lbs]
1	32	M16 x 2 GR 8.8 w/ (2x) WASHER AND (1x) 2H HEAVY HEX NUT	50 mm [2"]	8 kg [18 lbs]
2	16	12 mm U-BOLTS w/ (2x) NUT & WASHER FOR PIPE SIZE (OD)	53 mm TO 100 mm [2" TO 4"]	-
3	16	M16 x 2 GR 8.8 w/ (2x) FLAT WASHER, SPLIT WASHER AND (1x) 2H HEAVY HEX NUT	* 950 mm [38"]	18 kg [40 lbs]
TOTAL STEEL WEIGHT				465 kg [1025 lbs]
TOTAL WEIGHT WITH HARDWARE AND (3% ADDITIONAL FOR) GALVANIZING				479 kg [1056 lbs]

* FOR A 42" OD POLE. LENGTHS VARIES PER MONOPOLE DIAMETER, FIELD CUT EXCESS AS NEEDED FOR FIT UP.



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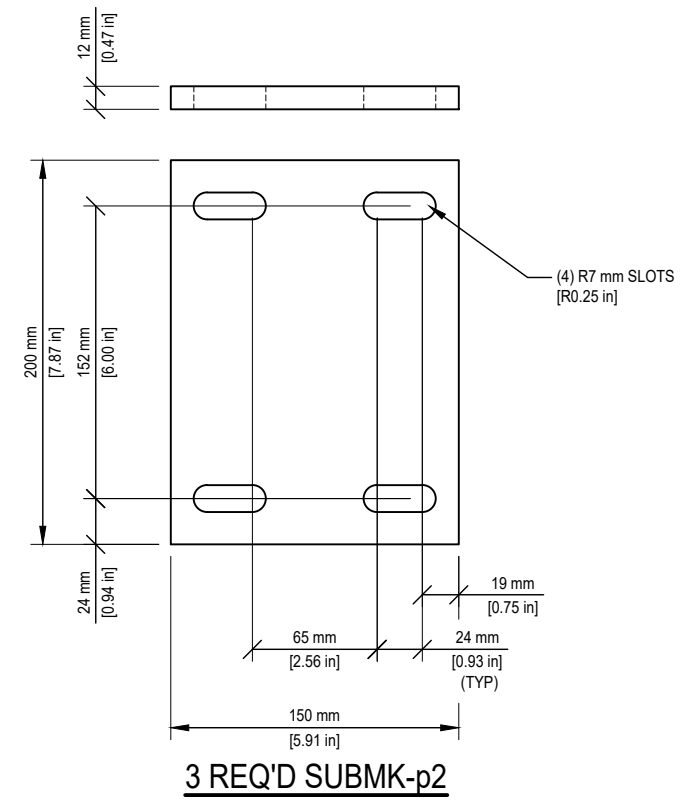
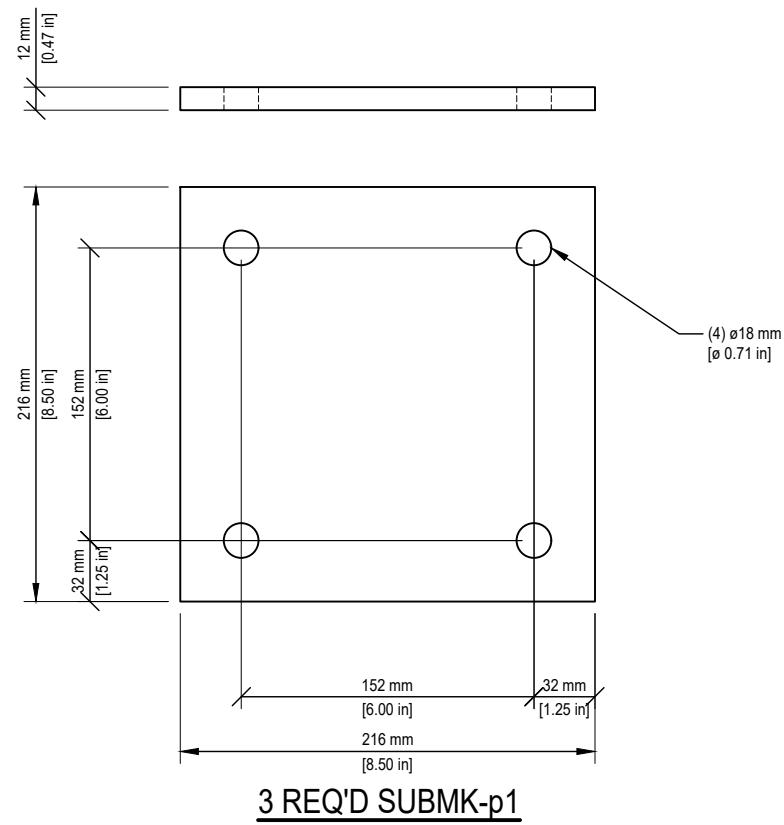
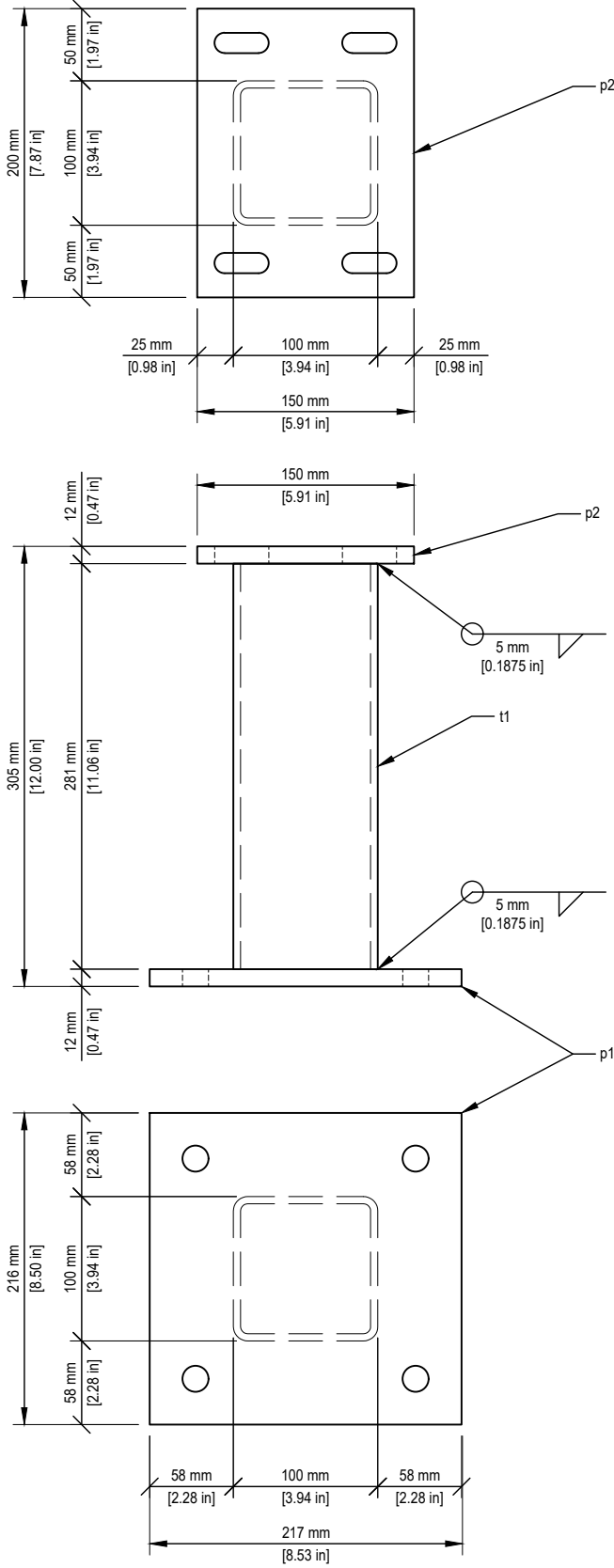
STANDARD ANTENNA MOUNT
TRI OR QUAD MOUNT

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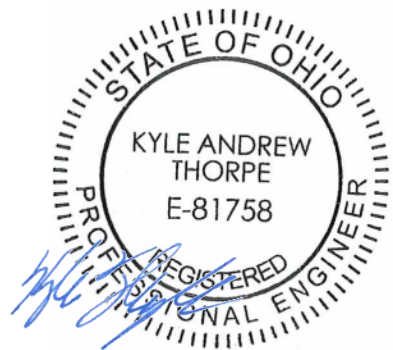
QUAD MOUNT
STAND OFF ARM
ASSEMBLY

E-4

V1.0 00020-0279.001.DWG



MATERIAL LIST (PER ARM)							
MARK	SUBMARK	ASTM	QTY	MATERIAL	LENGTH	WEIGHT	WEIGHT
	p1	345 MPa (50 ksi)	1	PLATE 12 mm x 216 mm [0.47" x 8.50"]	216 mm [8.50"]	5 kg [10 lbs]	
	p2	345 MPa (50 ksi)	1	PLATE 12 mm x 150 mm [0.47" x 5.91"]	200 mm [7.87"]	3 kg [7 lbs]	
	t1	345 MPa (50 ksi)	1	TUBE 100 mm x 100 mm x 5 mm [4" x 4" x 3/16"]	281 mm [11.06"]	6 kg [13 lbs]	
MA-1			1	MOUNT ARM WELDMENT	305 mm [12.00"]	14 kg [30 lbs]	14 kg [30 lbs]
TOTAL STEEL WEIGHT						14 kg [30 lbs]	
TOTAL WEIGHT AND (3% ADDITIONAL FOR) GALVANIZING						15 kg [31 lbs]	



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STANDARD ANTENNA MOUNT

TRI OR QUAD MOUNT

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CHECKED BY: JGF

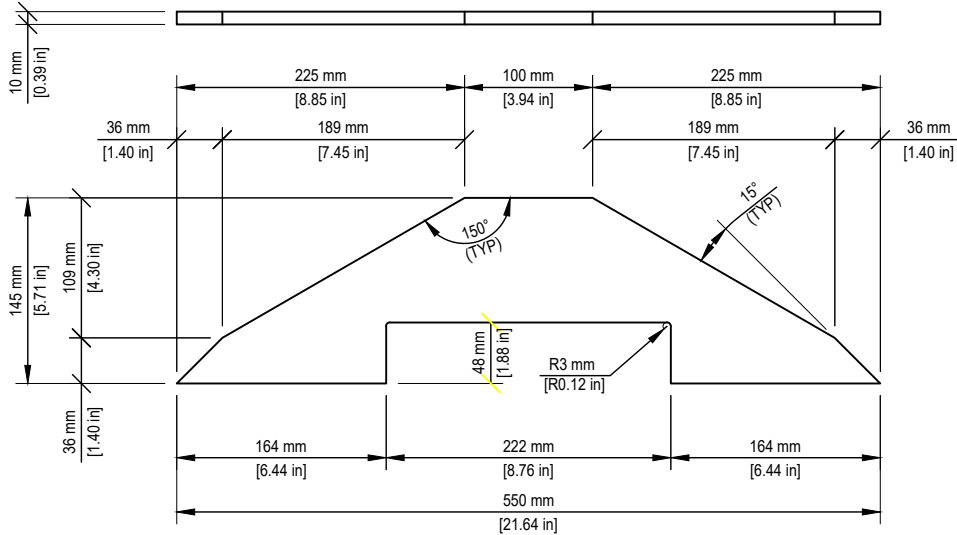
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TRI MOUNT ARM

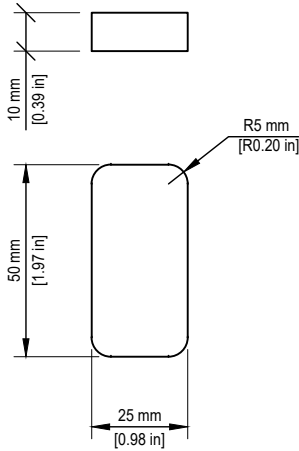
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REV	DATE	DESCRIPTION
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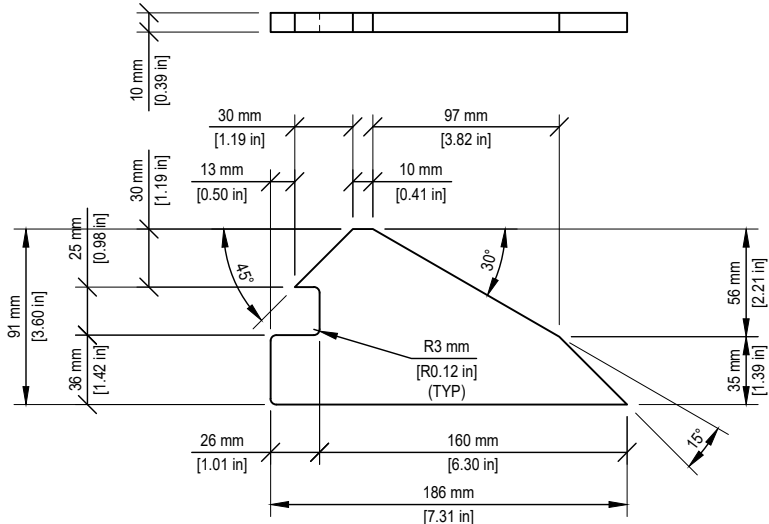
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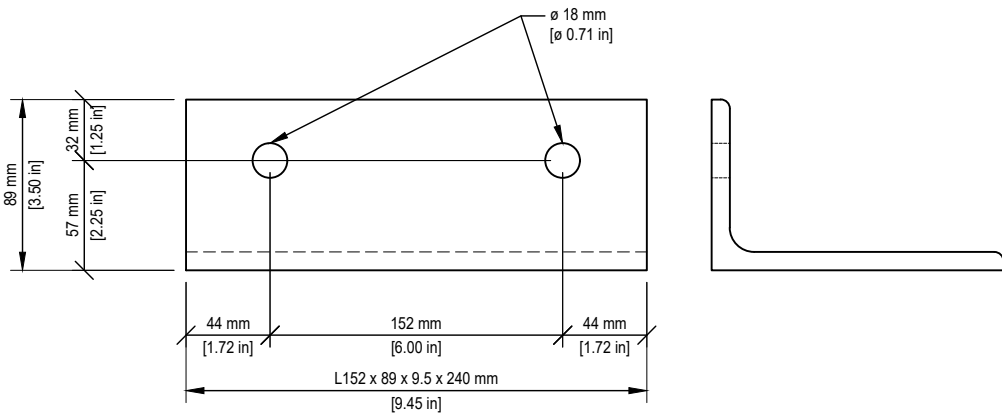
2 REQ'D SUBMK-p3



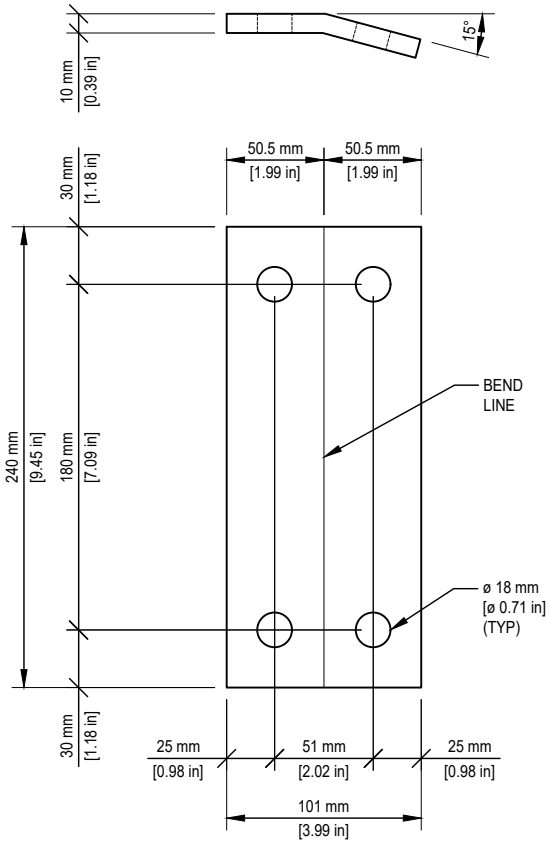
1 REQ'D SUBMK-p4



2 REQ'D SUBMK-p5



2 REQ'D SUBMK-p7



2 REQ'D SUBMK-p6

MATERIAL LIST (PER WELDMENT)							
MARK	SUBMARK	ASTM	QTY	MATERIAL	LENGTH	WEIGHT	WEIGHT
	p3	345 MPa (50 ksi)	2	PLATE 10 mm x 145 mm [0.39" x 5.71"]	550 mm [21.64"]	12 kg [27 lbs]	
	p4	345 MPa (50 ksi)	1	PLATE 10 mm x 25 mm [0.39" x 0.98"]	50 mm [1.97"]	.5 kg [1 lbs]	
	p5	345 MPa (50 ksi)	2	PLATE 10 mm x 91 mm [0.39" x 3.60"]	186 mm [7.31"]	3 kg [6 lbs]	
	p6	345 MPa (50 ksi)	2	PLATE 10 mm x 50 mm [0.39" x 1.97"]	240 mm [9.45"]	2 kg [4 lbs]	
	p7	345 MPa (50 ksi)	2	L152 x 89 x 9.5 [L6 x 3 1/2 x 3/8]	240 mm [9.45"]	5 kg [10 lbs]	
PW-1			1	PLATE WELDMENT		22.5 kg [50 lbs]	22.5 kg [50 lbs]
						TOTAL STEEL WEIGHT	22.5 kg [50 lbs]
						TOTAL WEIGHT AND (3% ADDITIONAL FOR) GALVANIZING	23 kg [51 lbs]



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TRI OR QUAD MOUNT

PROJECT No: 00020-0279.001.7192
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MOUNT PLATE
DETAILS

S-2

REV DATE DESCRIPTION

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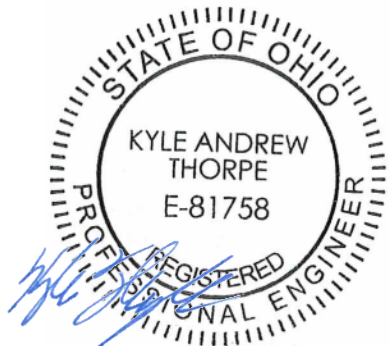
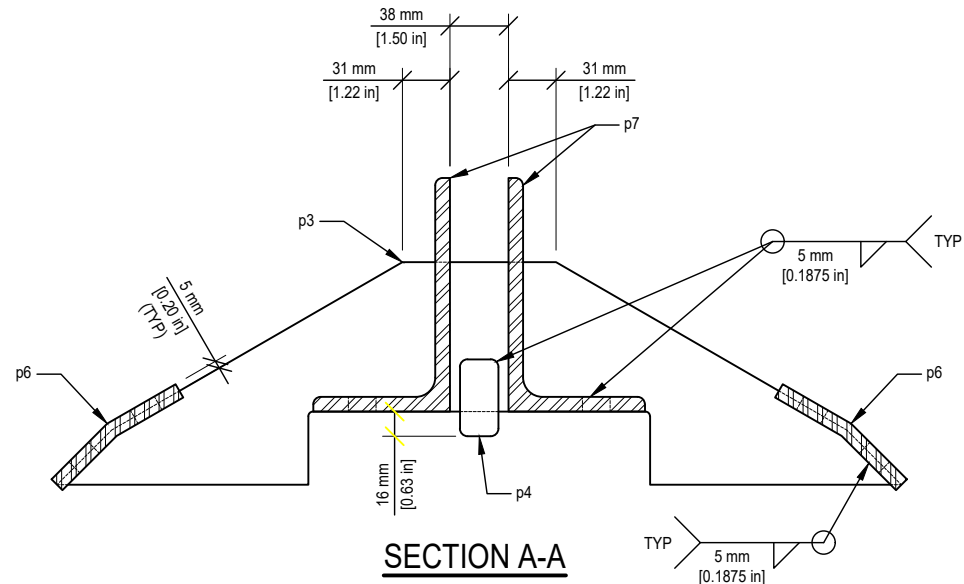
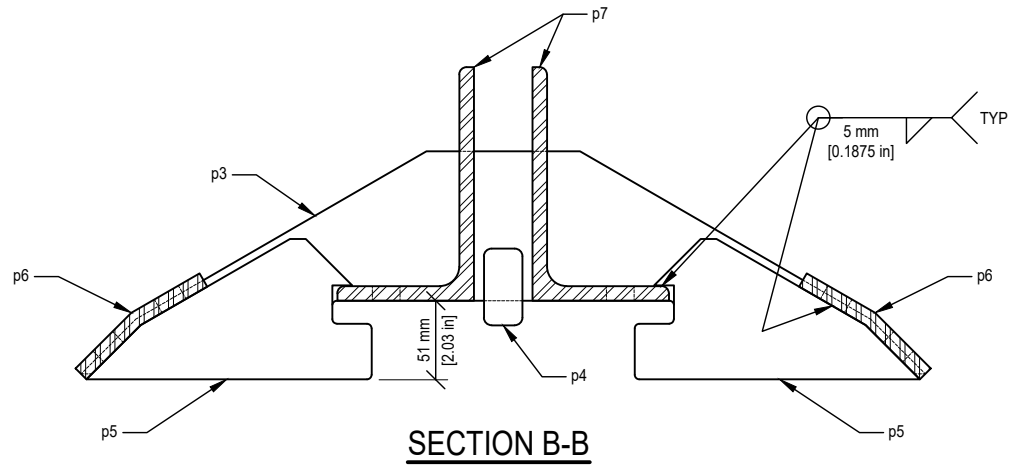
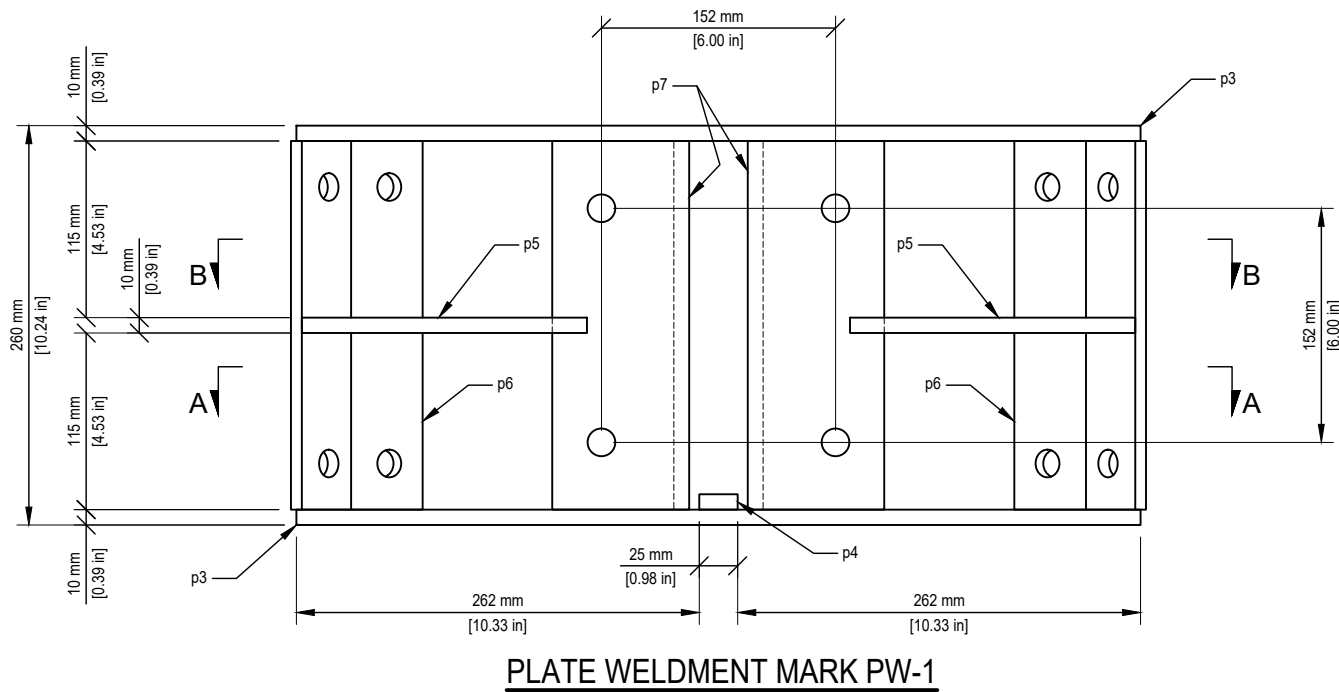
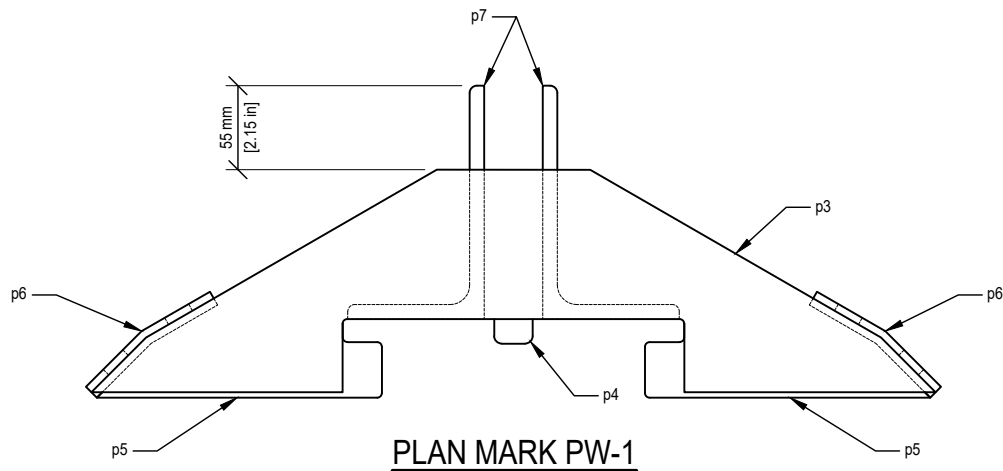
STANDARD ANTENNA MOUNT

TRI OR QUAD MOUNT

PROJECT No:	00020-0279.001.7192
DRAWN BY:	TAN/RMK
DESIGNED BY:	KAT
CHECKED BY:	JGF
DATE:	7-17-2020

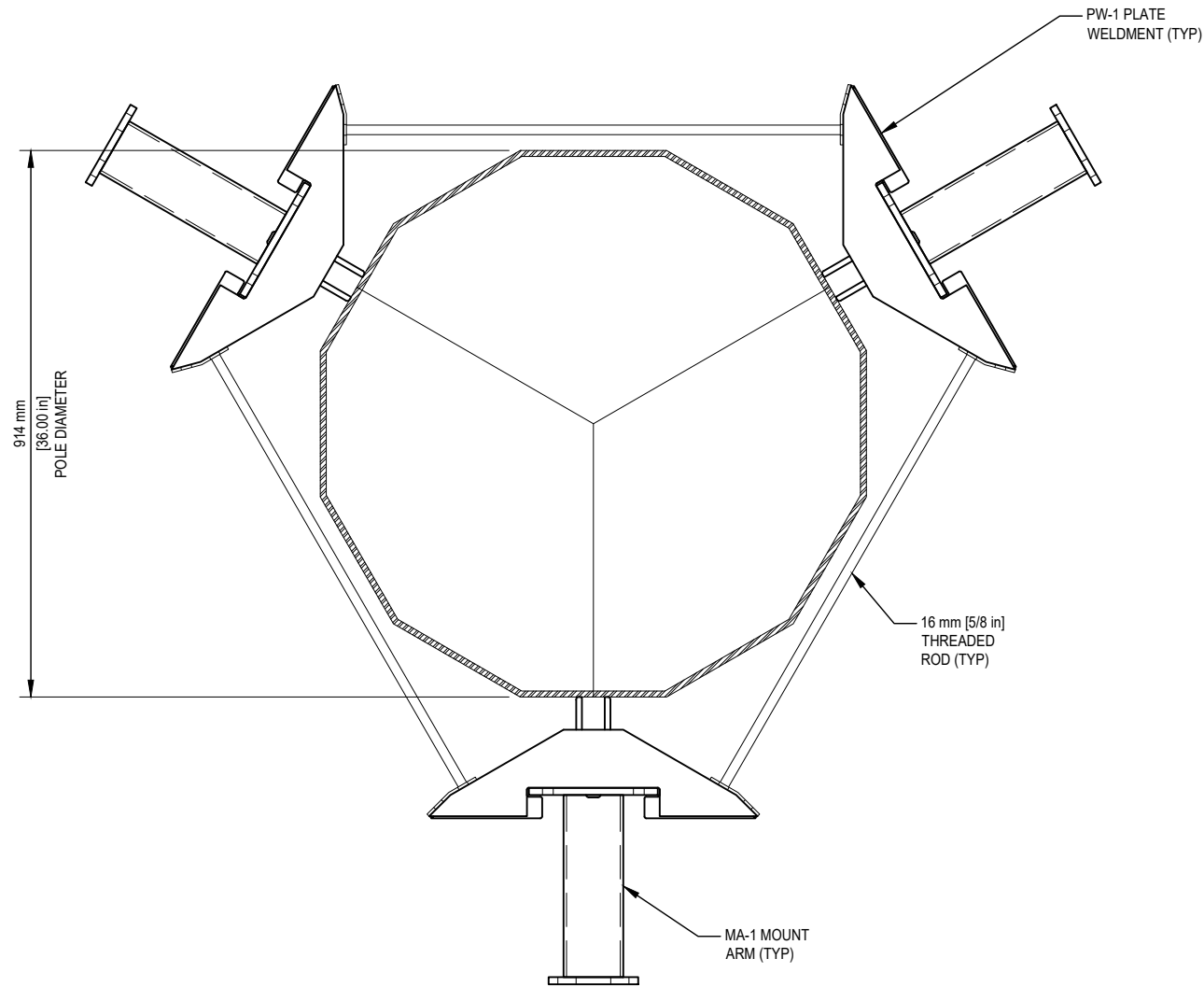
MOUNT PLATE
WELDMENT

S-3

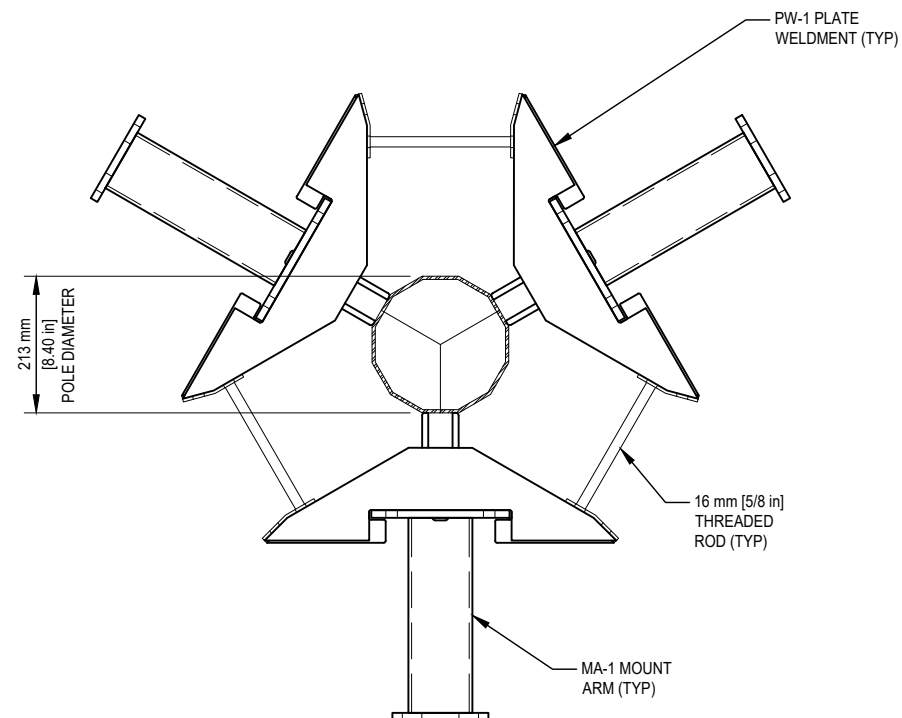


07/30/2020

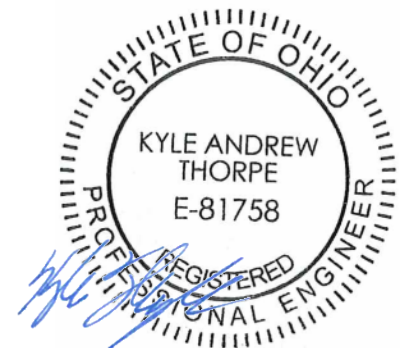
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TRI-MOUNT CONFIGURATION
LARGEST POLE DIAMETER



TRI-MOUNT CONFIGURATION
SMALLEST POLE DIAMETER



07/30/2020

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STANDARD ANTENNA MOUNT
TRI OR QUAD MOUNT

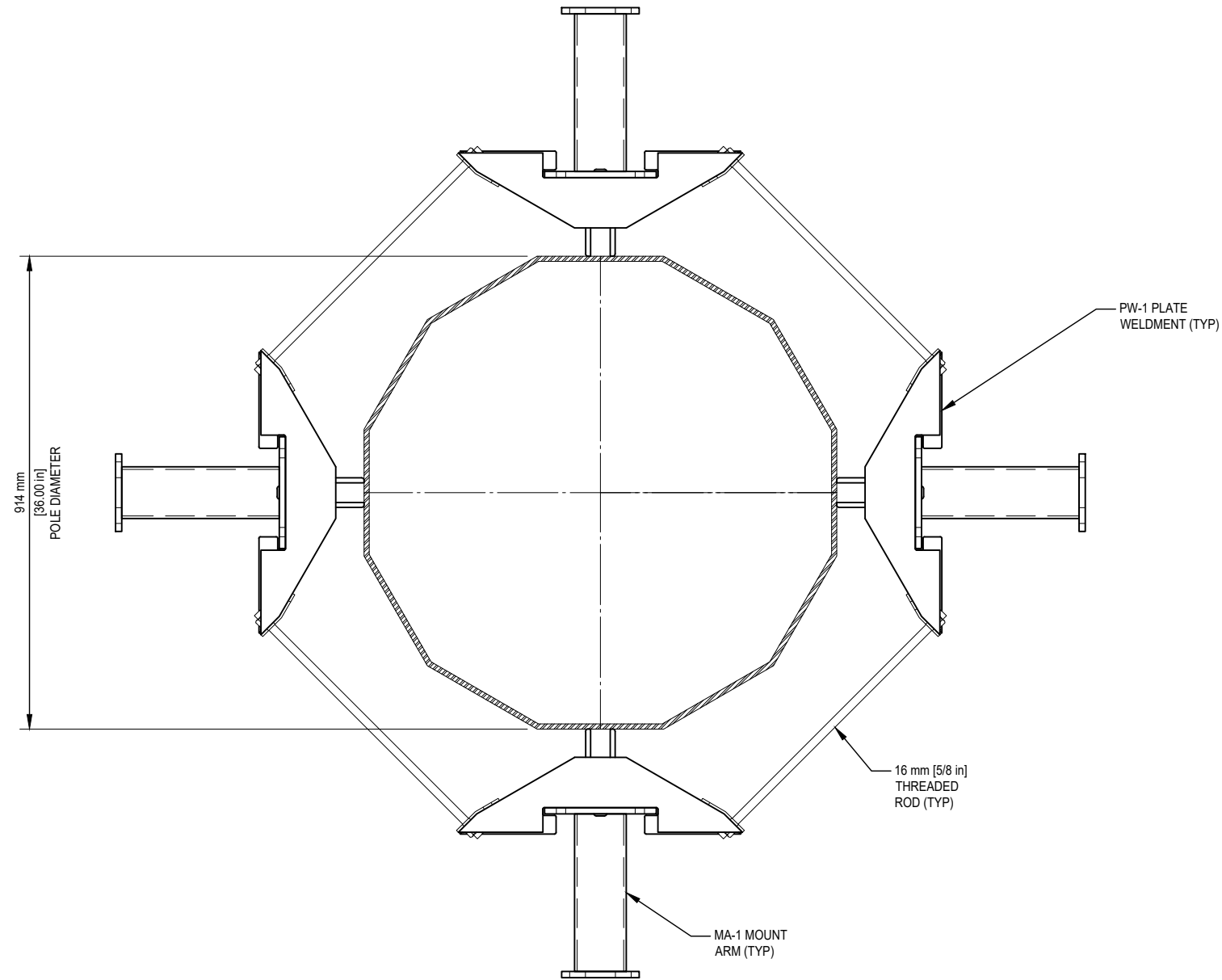
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DRAWN BY:	TAN/RMK
DESIGNED BY:	KAT
CHECKED BY:	JGF
DATE:	7-17-2020

TRI-MOUNT CONFIGURATION

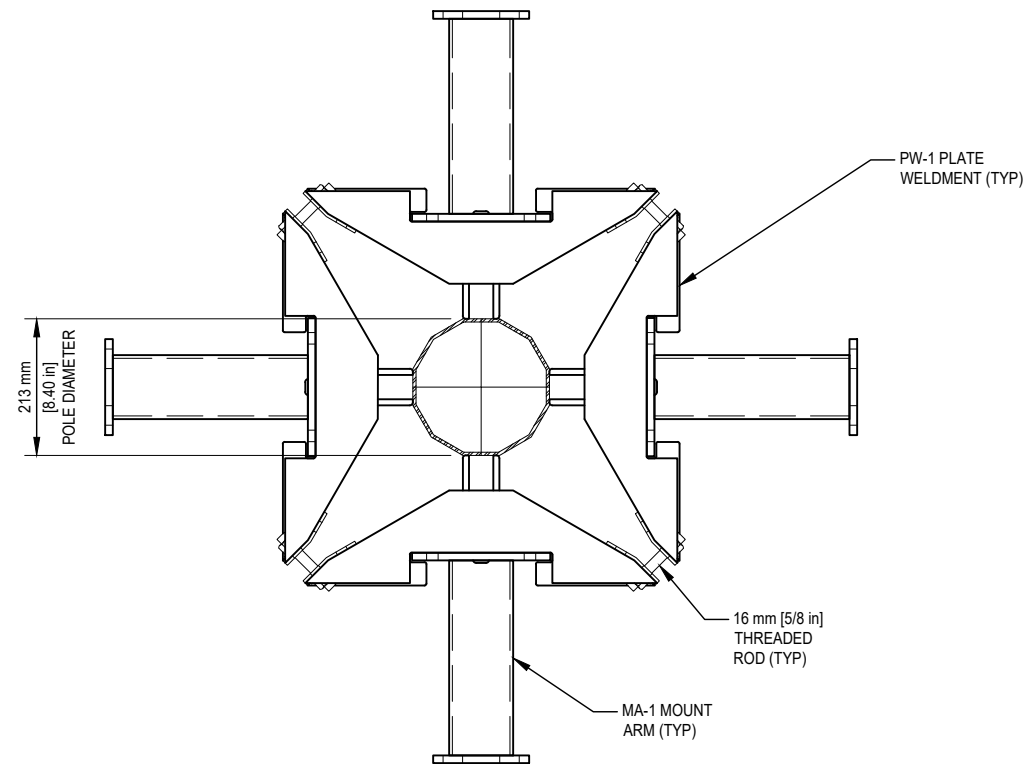
S-4

REV	DATE	DESCRIPTION
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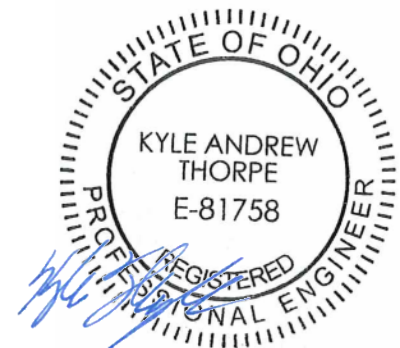
V1.0 00020-0279.001.DWG



QUAD-MOUNT CONFIGURATION
LARGEST POLE DIAMETER



QUAD-MOUNT CONFIGURATION
SMALLEST POLE DIAMETER



07/30/2020

REV	DATE	DESCRIPTION
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QUAD-MOUNT CONFIGURATION

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