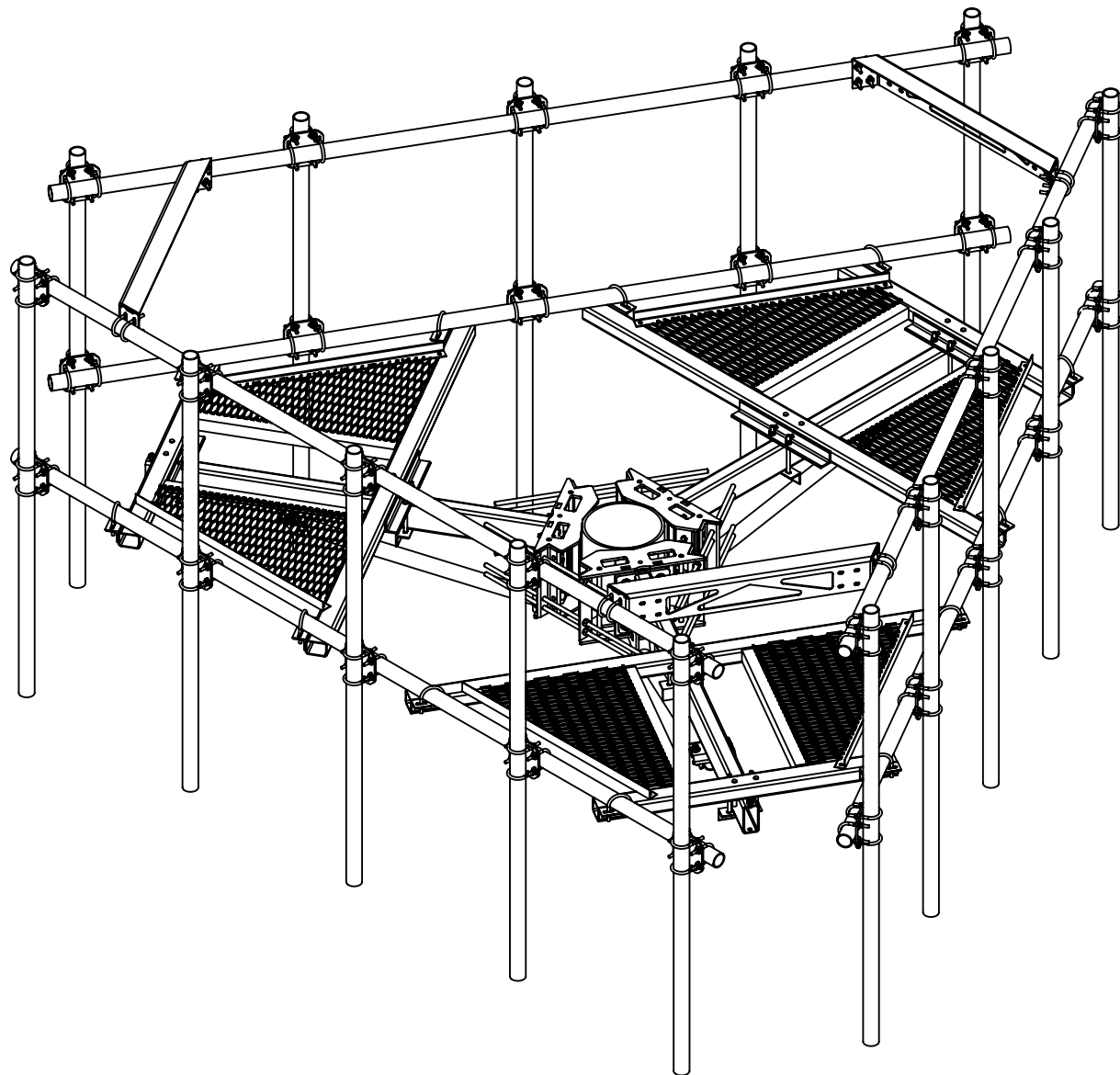
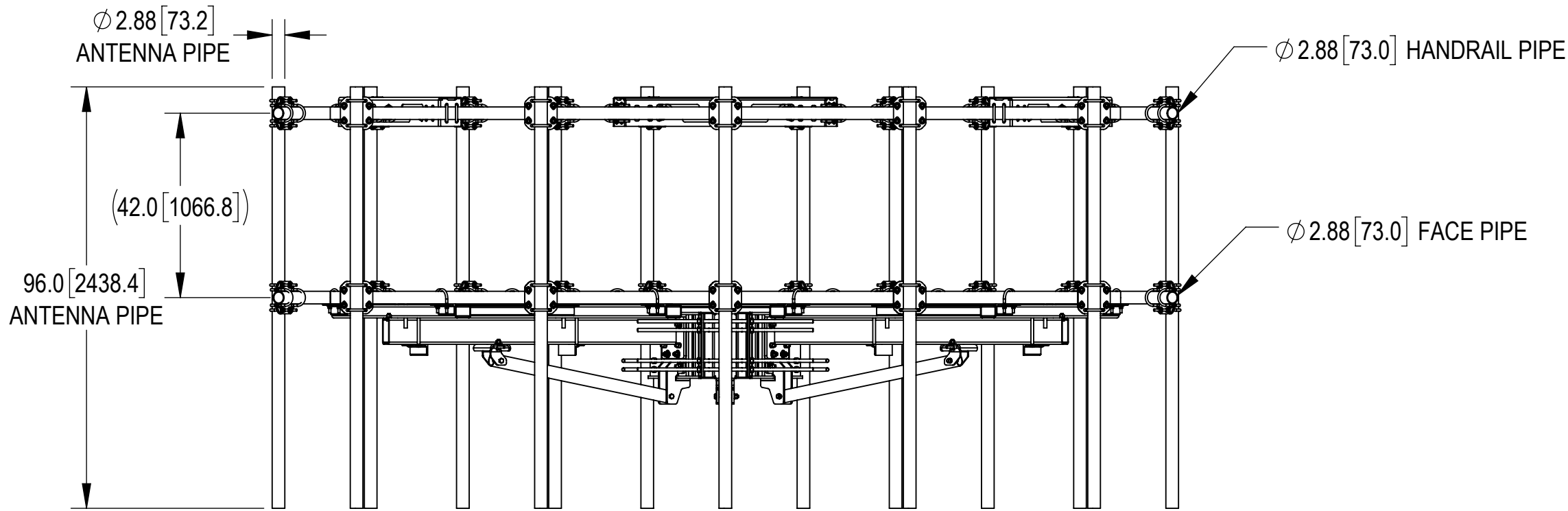
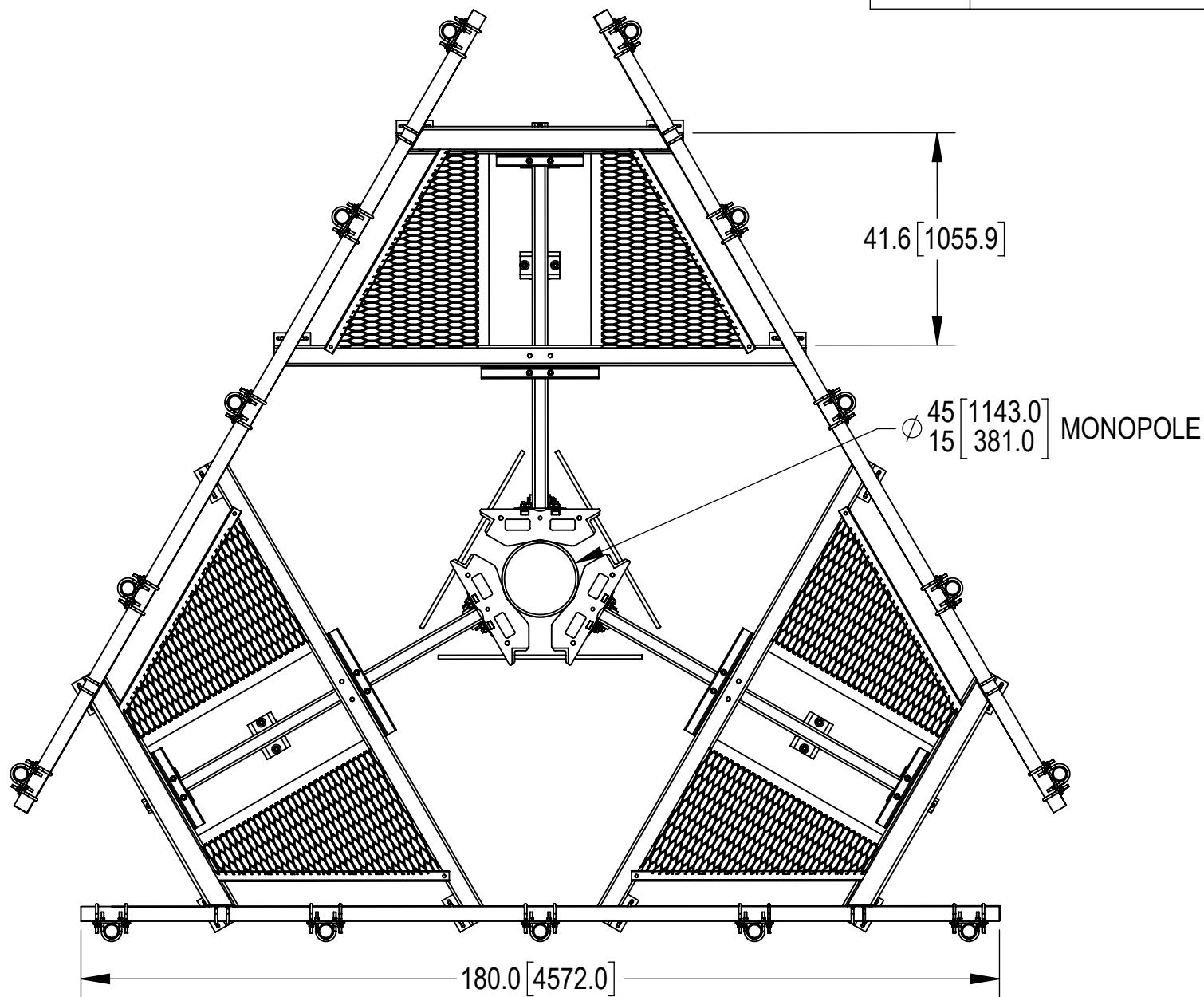


- 1.0 GENERAL NOTES
- 1.1 ALL METRIC DIMENSIONS ARE IN BRACKETS [X. X]
- 1.2 FOR PATENT INFO: <https://www.cs-pat.com>
- 2.0 DESIGN NOTES
- 2.1 ANY HAZARDS OR OBSTRUCTIONS TO THE CLIMBING FACILITY AND SAFETY CLIMB MUST BE IDENTIFIED PRIOR TO INSTALLING THE APPURTENANCE. ADDITIONAL PRODUCTS MAY BE REQUIRED TO MAINTAIN THE INTEGRITY OF THE SAFETY CLIMB. DURING INSTALLATION, TEMPORARY AND/OR PERMANENT PRECAUTIONARY MEASURES SHOULD BE TAKEN TO PRESERVE THE CLIMBING FACILITY AND/OR SAFETY CLIMB.
- 2.2 FITS MONOPOLES 15"-45" O.D.
- 2.3 ANTENNA PIPES SHOULD BE CENTERED AND EVENLY SPACED.
- 2.4 POSITION MOUNT OR ADJUST SAFETY CLIMB CABLE SO NOT TO HINDER OR DAMAGE OR OBSTRUCT THE SAFETY CLIMB. SAFETY CABLE ROUTING BRACKET MAY BE PURCHASED SEPARATELY.
- 3.0 MANUFACTURING/SPECIAL REQUIREMENTS
- 3.1 TIGHTEN ALL BOLTS SECURING FLAT PLATES BY THE TURN-OF-NUT METHOD. TIGHTEN ALL U-BOLTS USING TURN-OF-NUT METHOD WITH ATTENTION TO LEAVE EQUAL DISTANCE AND EQUAL FORCE ON EACH LEG OF THE U-BOLT. ALL FASTENERS SHOULD BE TIGHTENED PER AISC 6.5.2.
- 3.2 SUGGEST PRE-ASSEMBLE MINI KICKER BRACKET TO RING MOUNT ON THE GROUND.
- 4.0 TEST
- 5.0 PACKAGING
- 5.1 PACKAGING SHALL MEET COMMSCOPE REQUIREMENTS PER DOCUMENT IS-PL-3005
- 5.2 PRINTED DOCUMENT TO BE PLACED INSIDE POLYBAG AND THEN IN SHIPPING CONTAINER
- 5.3 EXTRA HARDWARE MAY BE SUPPLIED, BAGGED AND SHIPPED

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
C	CREATED INDIVIDUAL DRAWING	YMENG 05JUN24	CB1094 40197348CMO



COMMSCOPE, INC. OF NORTH CAROLINA

TOLERANCES			
1 PLACE .X[X] ±	0.2[6.3]	3 PLACE .XXX[X] ±	0.060[1.5]
2 PLACE .XX[X] ±	0.12[3.0]	ANGLES ±	2°

SAP MATERIAL MASTER

MP-PP15M-15C-96

FINISH

MATERIAL

	NAME	DATE	TITLE
CE	YMENG	05JUN24	MP, 15', 3S, (15) 2.88" X 96" PIPE, W/HR
RW	YMENG	06/06/2024	
AD	CB1094	06/07/2024	
RE	YMENG	06/07/2024	
ECN 40197348CMO			

SCALE 1:28

DOCUMENT NO. MP-PP15M-15C-96

DENSITY	3027.48	lbs/in³
MASS	11070.26	lbs
VOLUME	97751.41	in³
SURFACE AREA		in²

HEIGHT	
LENGTH	
WIDTH	

SIZE	Auth Group	INSL	MODEL			DRAWING			SHEET
C			VERSION	STATUS	REVISION	VERSION	STATUS	REVISION	1 OF 10
			03	RE	D	00	RE	C	

4

3

2

1

PART NUMBERS, WEIGHTS, & EPA

TABLE 1: CONFIGURATIONS

						INCLUDED PARTS							
PART NUMBER	DESCRIPTION	WEIGHT (LBS)	(EPA)A (FT^2)*	(EPA)A 1/2" ICE THICKNESS (FT^2)*	ANTENNA PIPES	MC-RMHD-1245-3	MC-AS-SB03	RK-48-3MK	MPPP-HK01	MT546180	HRK-15-12-01	XP-2525-15	MT54696
MP-PP15M-15C-96	MP,15',3S,(15)2.88"X96"PIPE,W/HR	3027.48	36.66	48.93	15	1	1	1	1	3	1	2	15

* (EPA)A DOES NOT INCLUDE ANTENNA PIPES AND MOUNTING HARDWARE. IF DESIRED, ADD ANTENNA PIPE PER TABLE 2

TABLE 2: EPA OF EACH ANTENNA PIPE

ANTENNA PIPE	(EPA)A (FT^2)	(EPA)A W/ 1/2" ICE THICKNESS (FT^2)
2-7/8" X 96"	1.84	2.48

NOTE:

1. ANTENNA PIPES ARE CONSIDERED SEPARATELY.

2. KA FACTOR OF 3-SECTOR EPA INCLUDED.

3. COMBINE THE ASSOCIATED EPA VALUES IN THE TABLES ABOVE TO DETERMINE THE EPA OF A MOUNT MODEL WITH A LISTED MOUNT PIPE CONFIGURATION.

FOR EXAMPLE, MP-PP15M-15C-96 HAS A 3-SECTOR EPA OF 36.66 FT2 WITH NO ICE PLUS 15 ANTENNA PIPES WITH A 3-SECTOR EPA OF 15X1.84=27.60 FT2 WITH NO ICE.

SO, THE TOTAL EPA OF 64.26 FT2 FOR THE MP-PP15M-15C-96

COMMScope, INC. OF NORTH CAROLINA

TITLE

MP,15',3S,(15)2.88"X96"PIPE,W/HR

SIZE

C

SCALE

1:48

DOCUMENT NO.

MP-PP15M-15C-96

VERSION

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STATUS

RE

REVISION

C

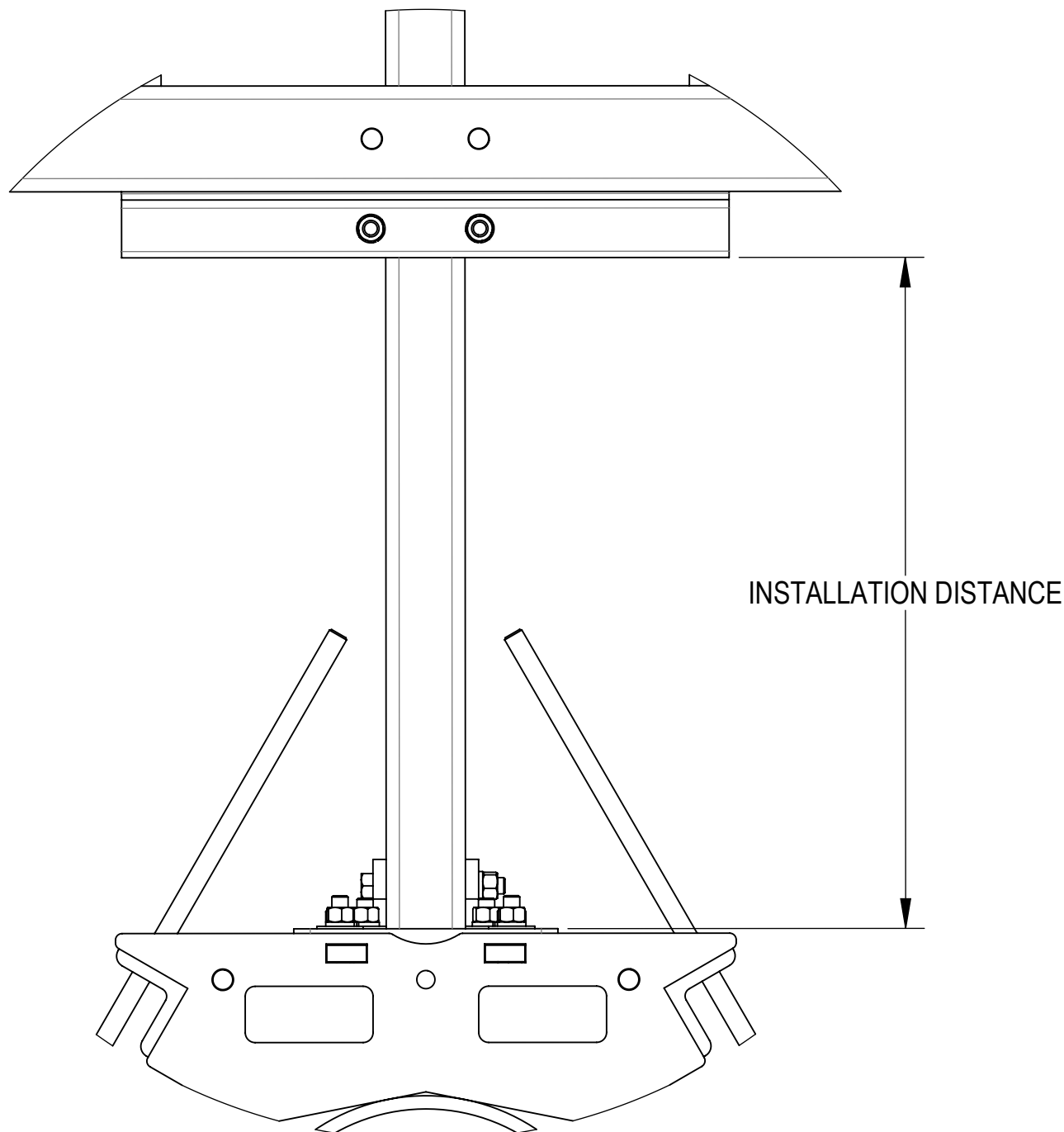
SHEET

2 OF 10

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PLATFORM FOR INSTALLATION

ADJUST THE INSTALLATION DISTANCE ACCORDING TO THE DIAMETER OF THE MONOPOLE WHEN INSTALL PLATFORM MC-AS-7000-00.
SEE TABLE 3 DETAIL FOR THE DISTANCE ADJUSTED.



DETAIL X
SCALE 1 : 6

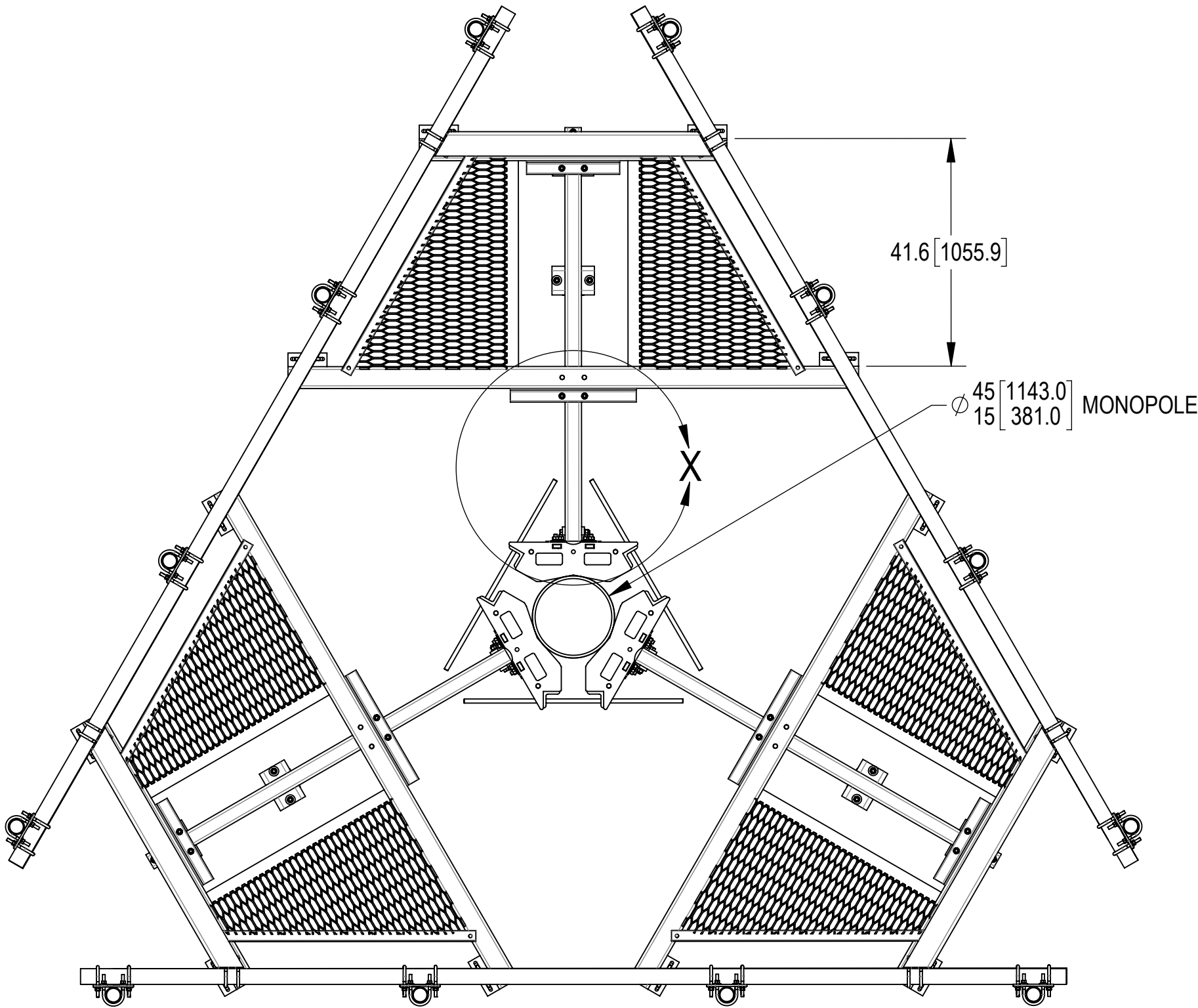


TABLE 3: PLATFORM INSTALLATION POSITION

DIAMETER OF MONOPOLE (INCH)	DISTANCE (INCH)	DIAMETER OF MONOPOLE (MM)	DISTANCE (MM)
15	25.40	381.0	645.2
17.5	24.13	444.5	612.9
20	22.85	508.0	580.4
22.5	21.58	571.5	548.1
25	20.30	635.0	515.6
27.5	19.03	698.5	483.4
30	17.75	762.0	450.9
32.5	16.48	825.5	418.6
35	15.21	889.0	386.3
37.5	13.93	952.5	353.8
40	12.66	1016.0	321.6
42.5	11.38	1079.5	289.1
45	10.11	1143.0	256.8

NOTE: FOR MONOPOLE DIAMETERS THAT ARE NOT IN THE TABLE, USE BELOW FORMULA TO GET THE VALUE OF THE ADJUSTMENT:
DISTANCE OF ADJUSTMENT = 33.05- 0.51*D (INCH), WHERE D(INCH) IS THE DIAMETER OF MONOPOLE

COMMScope, INC. OF NORTH CAROLINA

TITLE
MP,15',3S,(15)2.88"X96"PIPE,W/HR

SIZE C	SCALE 1:23	DOCUMENT NO. MP-PP15M-15C-96
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DRAWING			SHEET 3 OF 10
VERSION	STATUS	REVISION	
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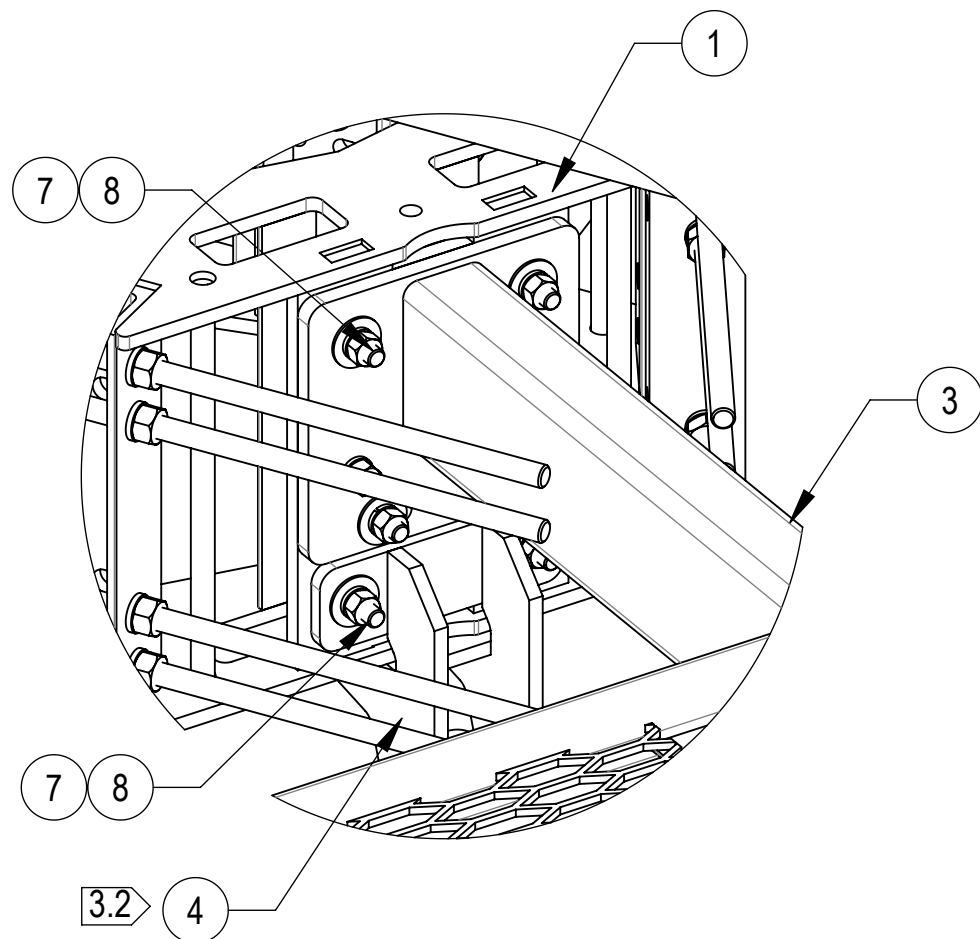
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D

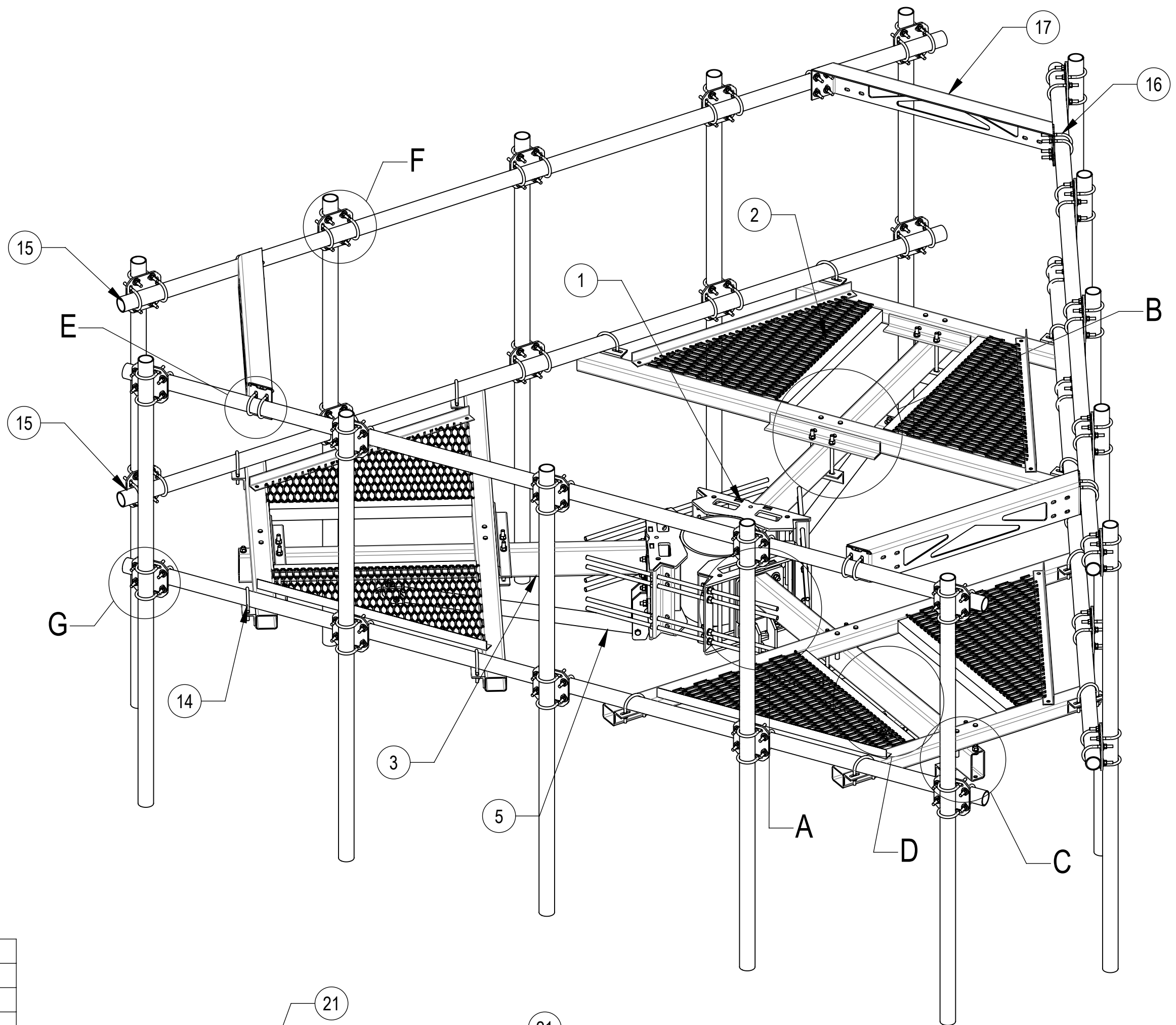
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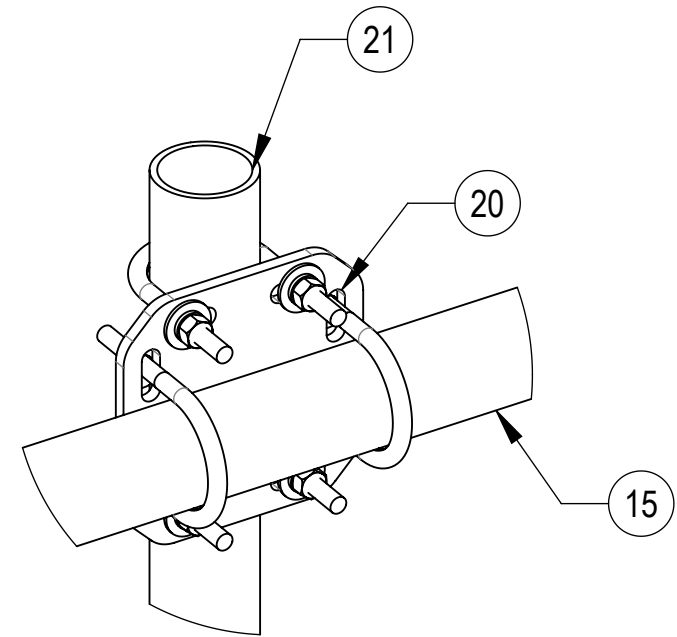


DETAIL A
SCALE 1 : 6

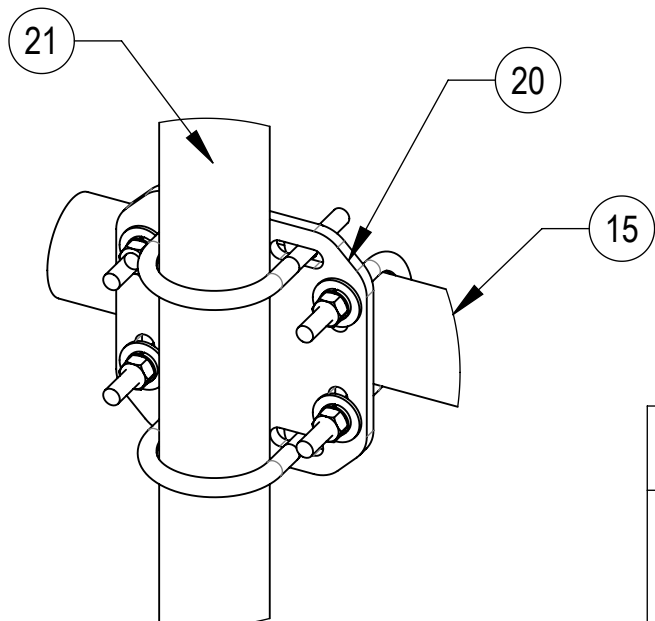


COMPONENT PART NUMBERS PROVIDED FOR ASSEMBLY PURPOSES;
INDIVIDUAL COMPONENTS MAY BE SHIPPED AS PARTS WITHIN AN INCLUDED KIT.

ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT	NOTE NO.
1	MC-RMHD-1245-3	3 SECTOR RING MOUNT, 12"-45" POLE	1	329.19 LBS	
2	MC-AS-7000-00	WELDMENT, CO-LOCATION PLATFORM DECK	3	208.07 LBS	
3	MC-AS-5000-00	WELDMENT, MONO PLATF SPINDLE	3	107.22 LBS	
4	MC-AS-6100-00	WELDMENT, MINI KICKER BRACKET	3	14.77 LBS	
5	RK48-00	MINI KICKER ARM SUPPORT TUBE 48"	3	22.96 LBS	
6	GB-0550A	5/8" X 5" GALV BOLT KIT (A325)	6	0.52 LBS	
7	GWF-05	5/8" GALV FLAT WASHER, 1.7OD	33	0.06 LBS	
8	GB-0524A	5/8" X 2-1/2" GALV HEX BOLT (A325)	27	0.31 LBS	
9	MC-AS-1200-00	CLAMP PLATE, CO-LOCATION PLATFORM	6	2.97 LBS	
10	9615-14	BOLT, CARRIAGE, 5/8-11, 8.5, STL GALV	12	0.82 LBS	
11	GWL-05	5/8" GALV LOCK WASHER	12	0.03 LBS	
12	GN-05	5/8" GALV HEX NUT	12	0.08 LBS	
13	GB-05125	5/8" X 1-1/4" GALV BOLT KIT	3	0.20 LBS	
14	GUB-4355	1/2" X 3-5/8" X 5" GALV U-BOLT	12	0.71 LBS	
15	MT546180	2.875" O.D. X 180" PIPE	6	87.21 LBS	
16	GUB-4352	1/2" X 3" X 5-1/4" GALV U-BOLT	12	0.71 LBS	
17	MC-AS-6300-00	CORNER WELDMEMT, HANDRAIL	3	31.87 LBS	
18	MC-AS-6400-00	WELDMENT, MINI KICKER CLIP	3	5.97 LBS	
19	GB-0520A	5/8" X 2" GALV BOLT KIT (A325)	6	0.26 LBS	
20	XP-2525	CROSSOVER PLATE KIT, 2-7/8 OD X 2-7/8 OD	30	8.37 LBS	
21	MT54696	PIPE, 2.875"OD X 96"	15	45.96 LBS	



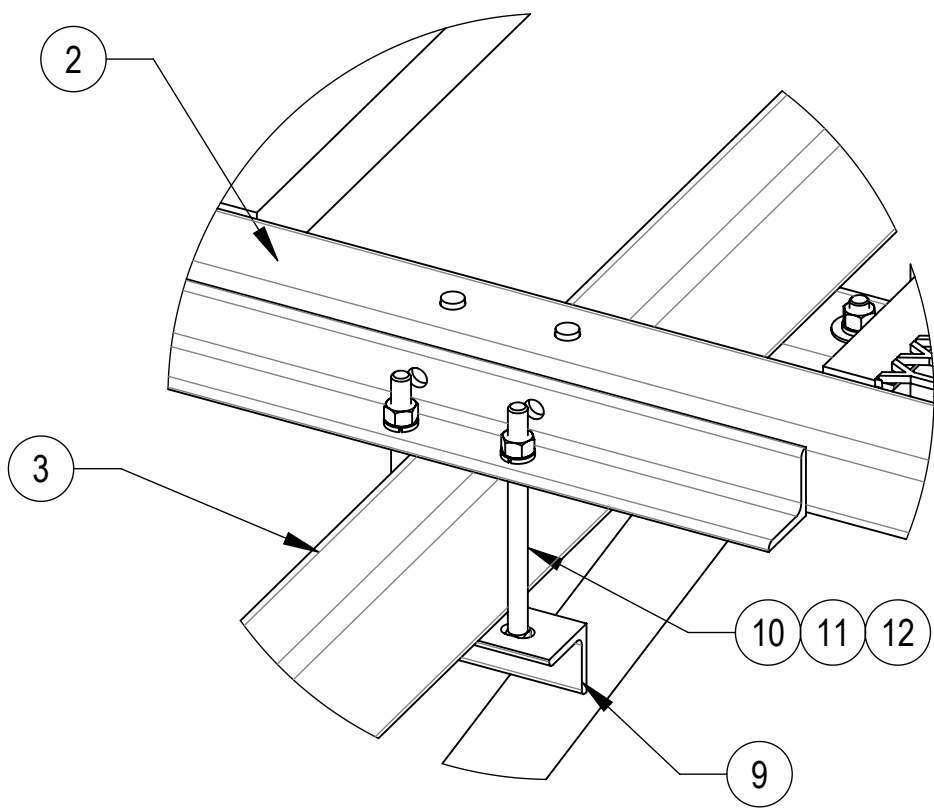
DETAIL F
SCALE 1 : 5



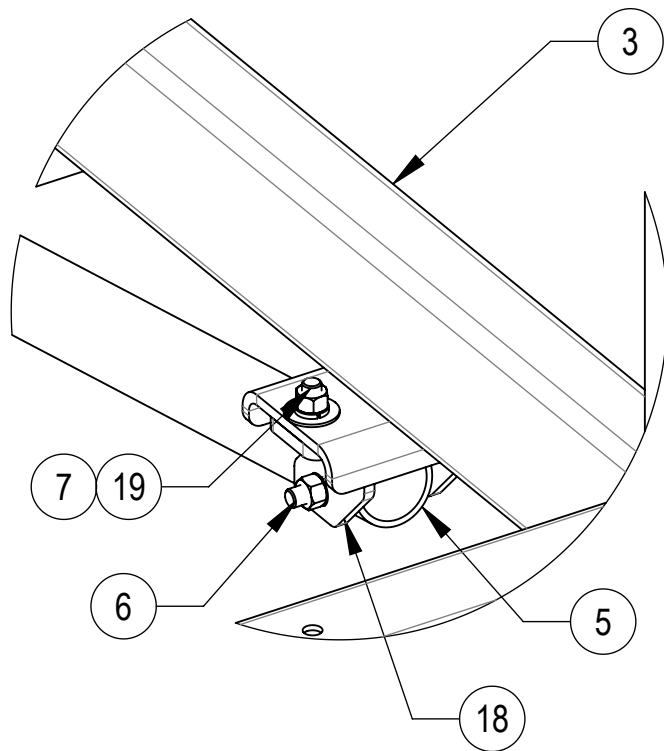
DETAIL G
SCALE 1 : 5

SOME ITEMS OMITTED FOR CLARITY

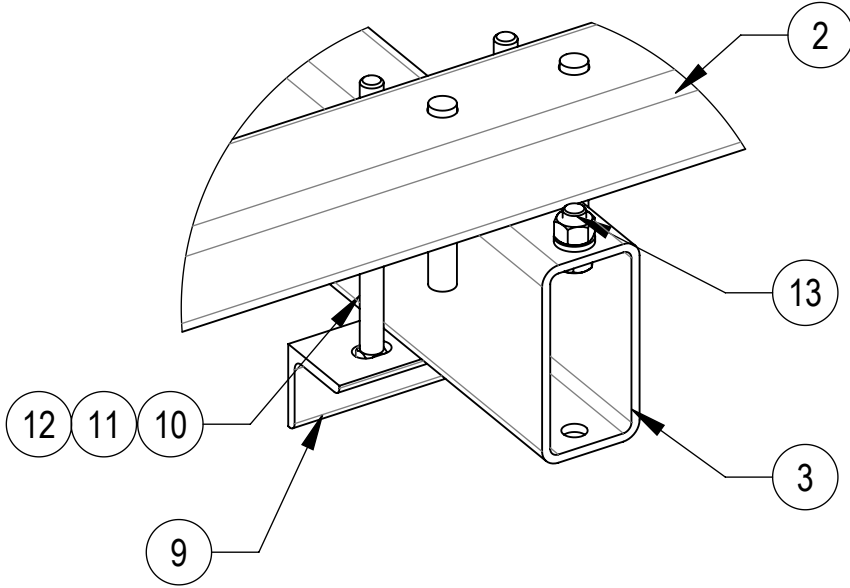
COMMScope, INC. OF NORTH CAROLINA					
TITLE					
MP, 15', 3S, (15) 2.88" X 96" PIPE, W/HR					
SIZE	SCALE	DOCUMENT NO.			
C	1:20	MP-PP15M-15C-96			
 		DRAWING			SHEET 4 OF 10
		VERSION	STATUS	REVISION	
		00	RE	C	



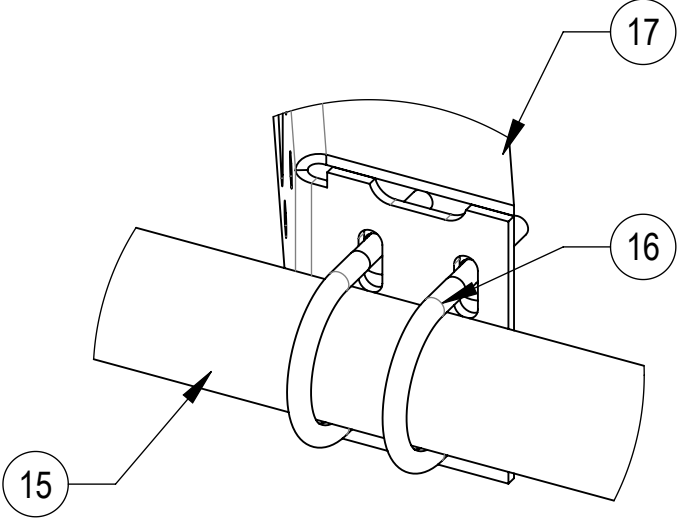
DETAIL B
SCALE 1 : 6



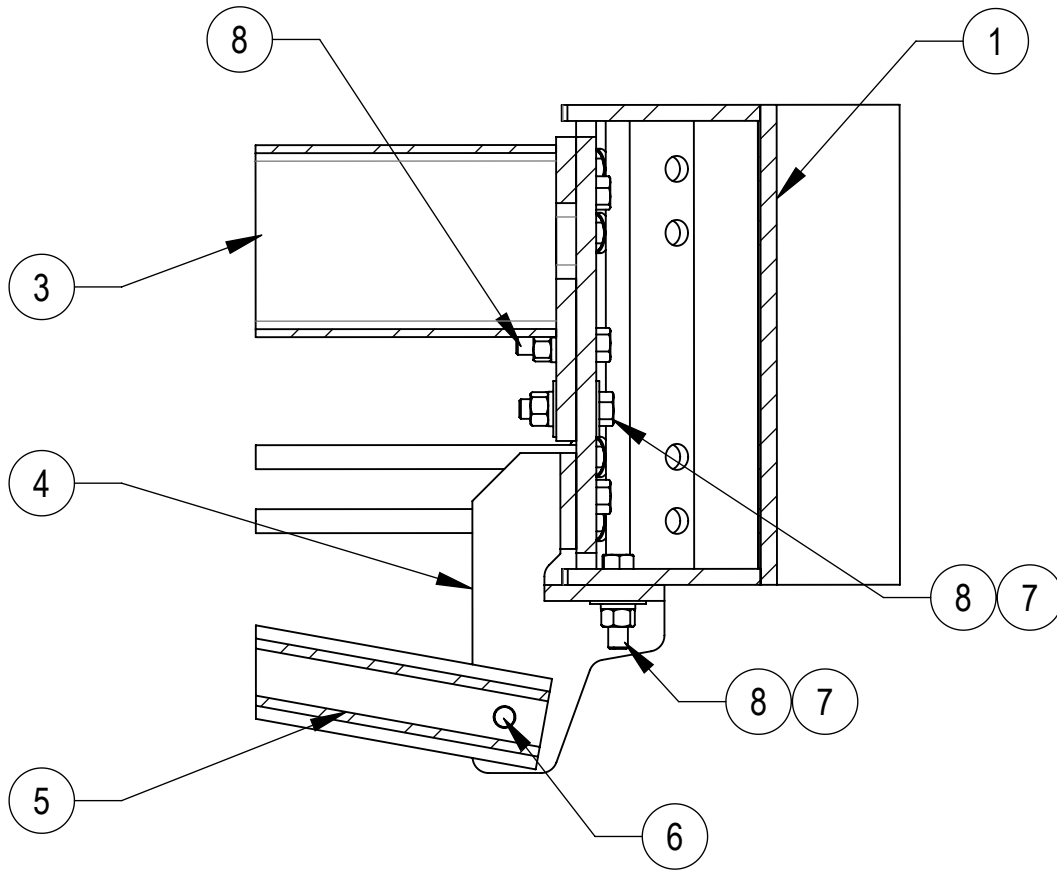
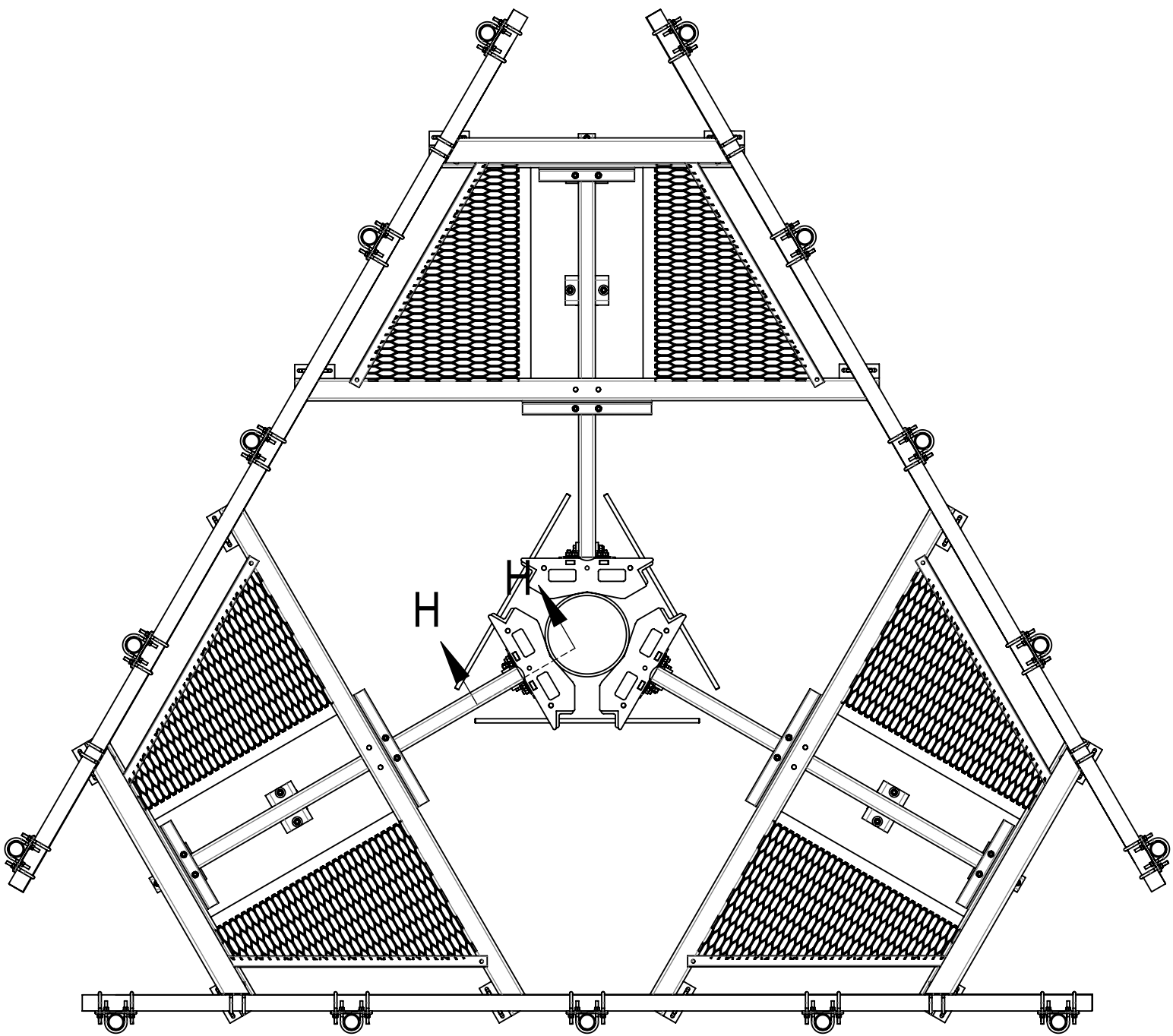
DETAIL D
SCALE 1 : 6



DETAIL C
SCALE 1 : 5



DETAIL E
SCALE 1 : 4



SECTION H-H
SCALE 1 : 6

SOME ITEMS OMITTED FOR CLARITY

COMMSCOPE, INC. OF NORTH CAROLINA				
TITLE MP,15',3S,(15)2.88"X96"PIPE,W/HR				
SIZE C	SCALE 1:20	DOCUMENT NO. MP-PP15M-15C-96		
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		VERSION 00	STATUS RE	REVISION C
				SHEET 5 OF 10

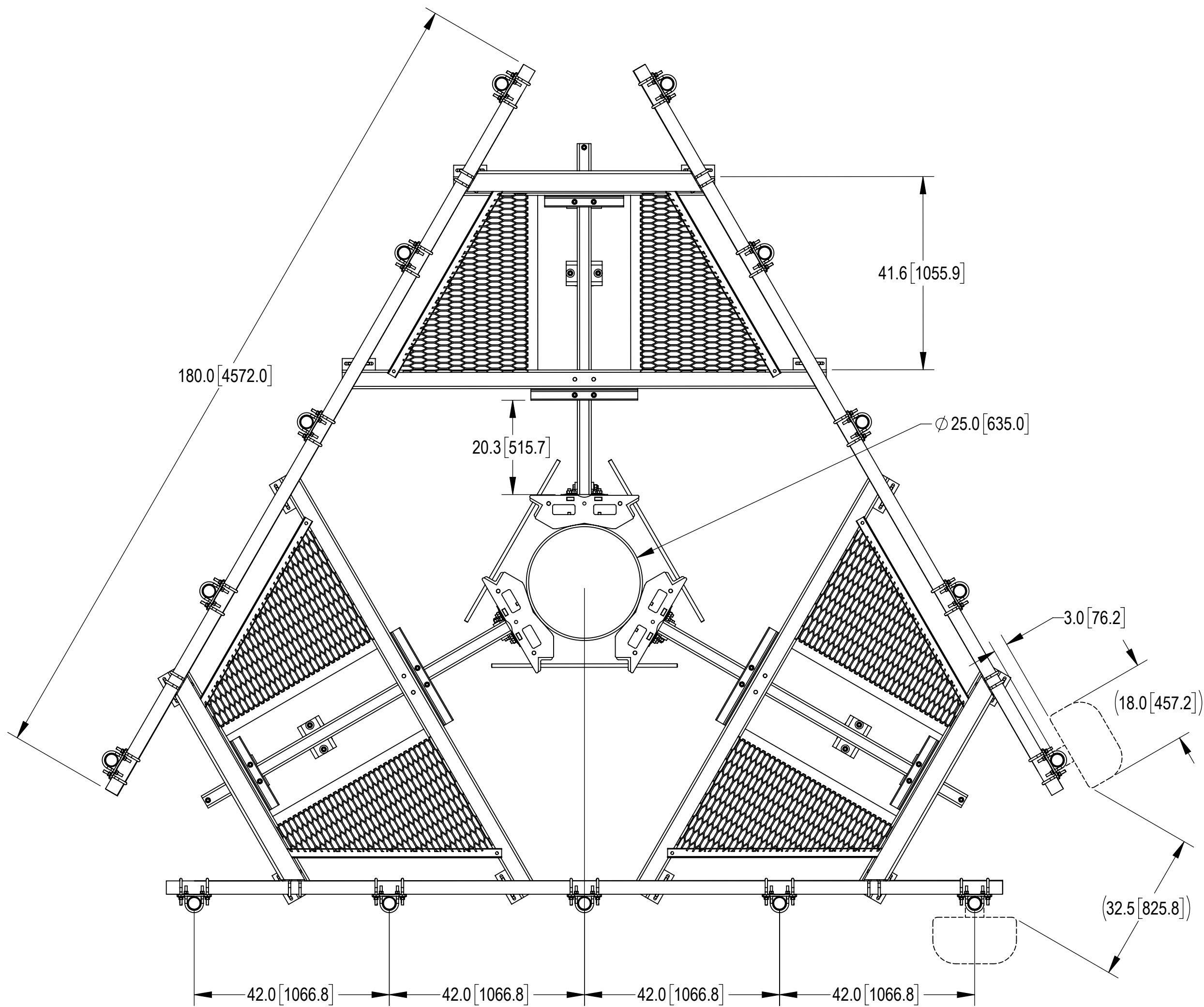
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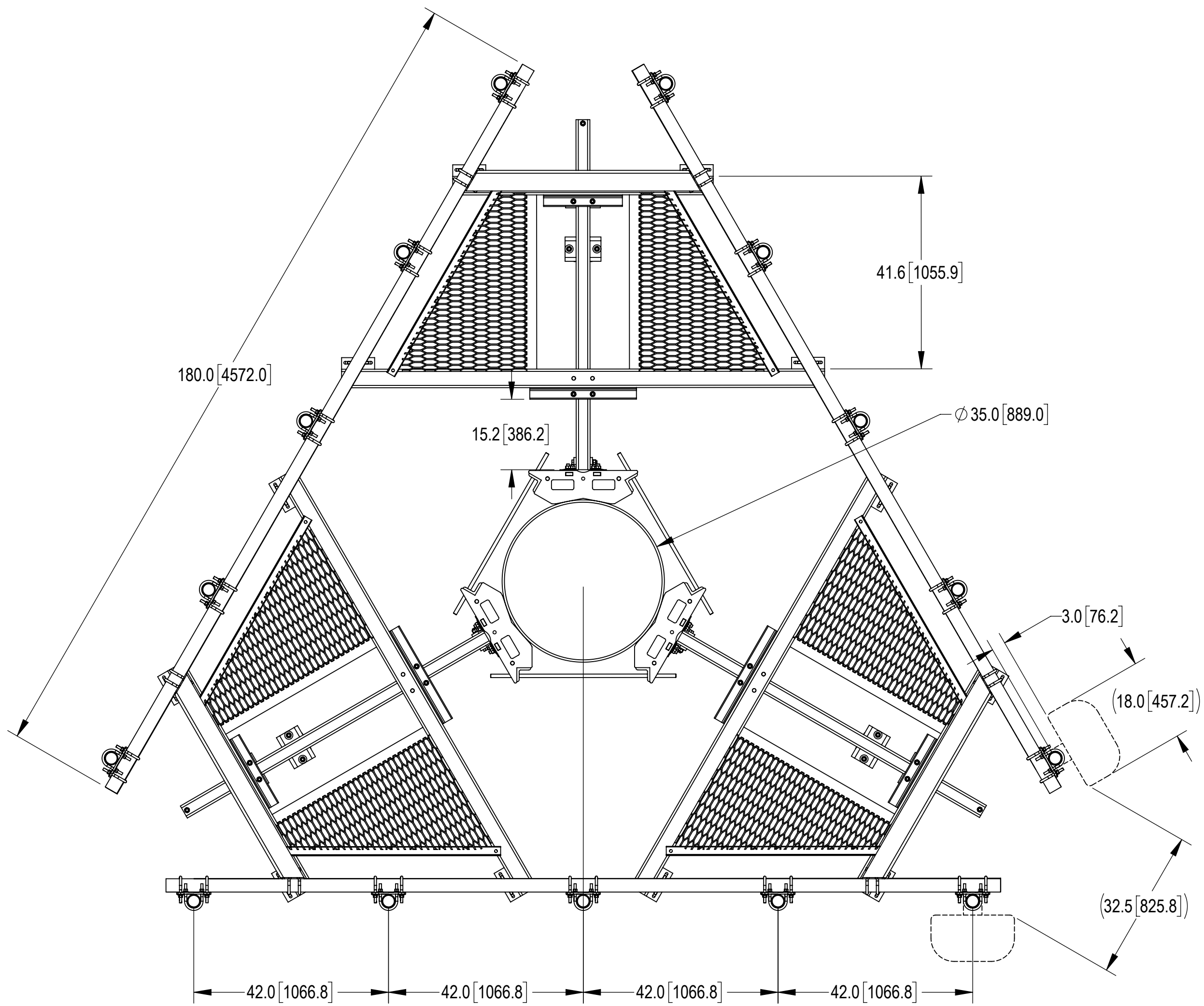
ANTENNA SPACING SHOWN



25" MONOPOLE

COMMScope, INC. OF NORTH CAROLINA				
TITLE				
MP, 15', 3S, (15) 2.88" X 96" PIPE, W/HR				
SIZE	SCALE	DOCUMENT NO.		
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		VERSION	STATUS	REVISION
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				SHEET
				7 OF 10

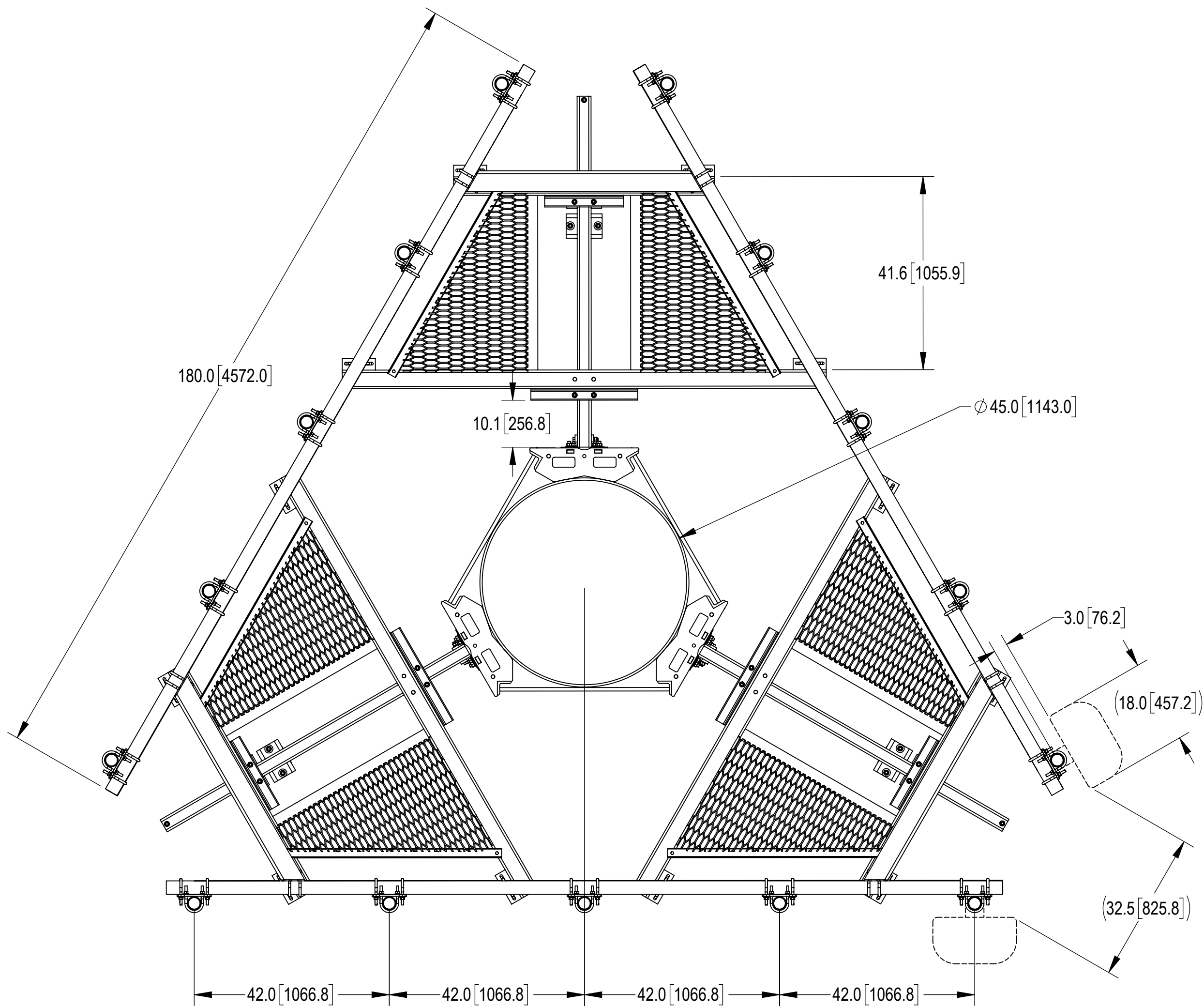
ANTENNA SPACING SHOWN



35" MONOPOLE

COMMSCOPE, INC. OF NORTH CAROLINA				
TITLE				
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SIZE	SCALE	DOCUMENT NO.		
C	1:25	MP-PP15M-15C-96		
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		VERSION	STATUS	REVISION
		00	RE	C
				SHEET
				8 OF 10

ANTENNA SPACING SHOWN



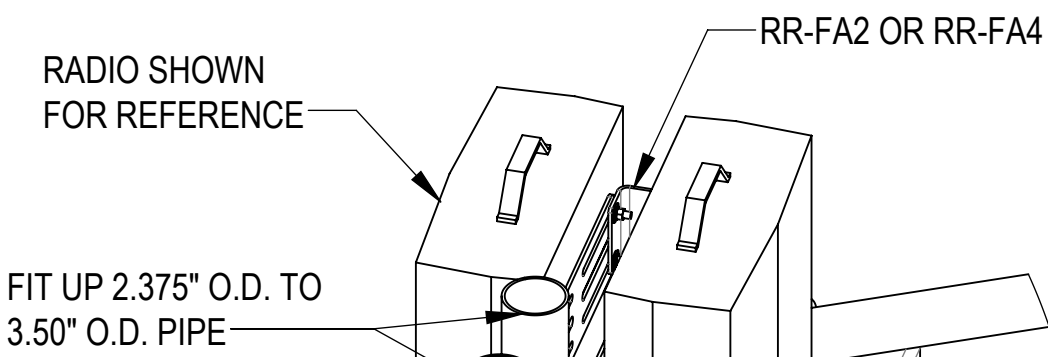
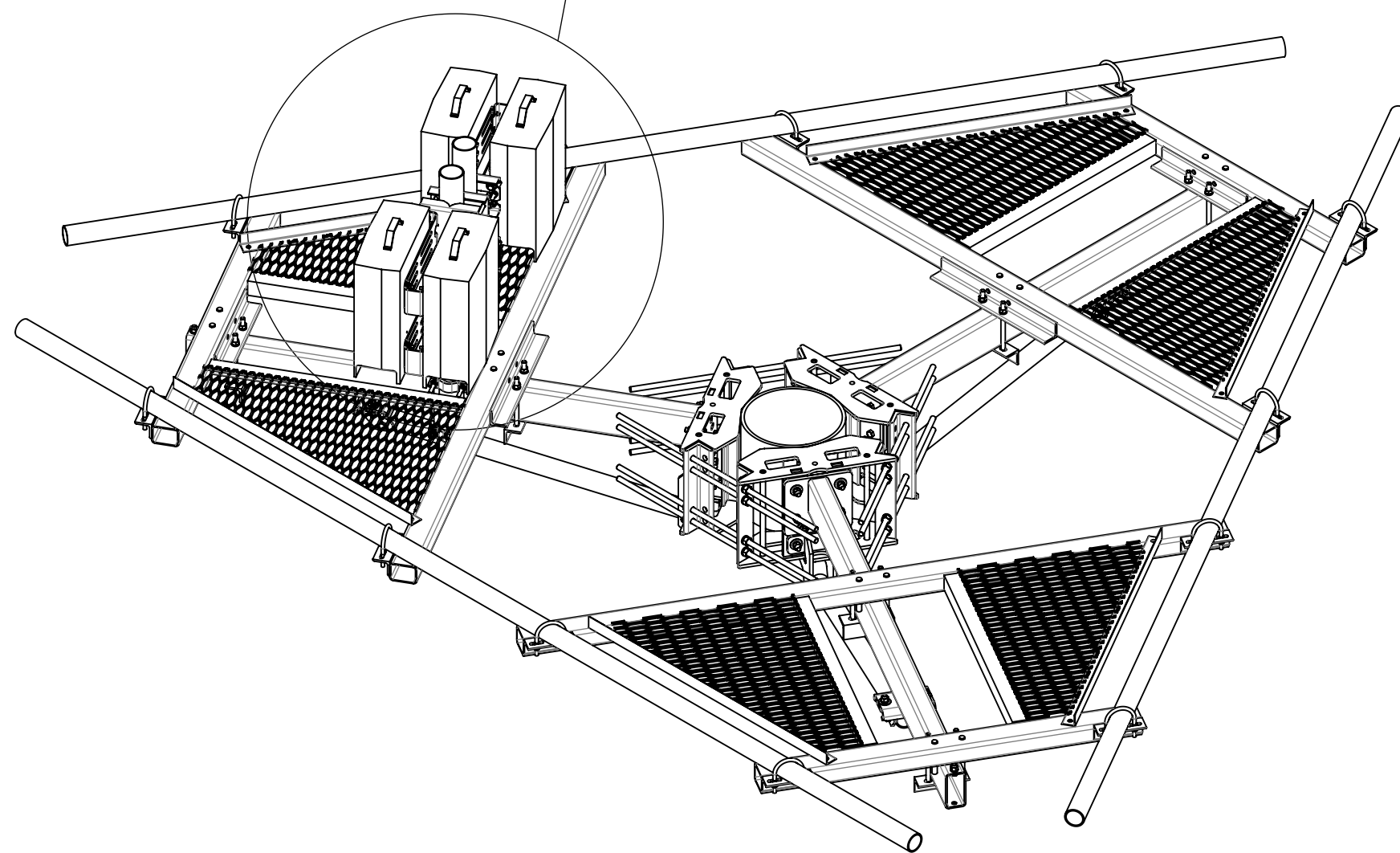
45" MONOPOLE

COMMScope, INC. OF NORTH CAROLINA				
TITLE				
MP,15',3S,(15)2.88"X96"PIPE,W/HR				
SIZE	SCALE	DOCUMENT NO.		
C	1:25	MP-PP15M-15C-96		
 		DRAWING		
		VERSION	STATUS	REVISION
		00	RE	C
				SHEET
				9 OF 10

OPTIONAL ACCESSORIES
(ALL THE ACCESSORY ITEMS TO BE PURCHASED SEPARATELY)

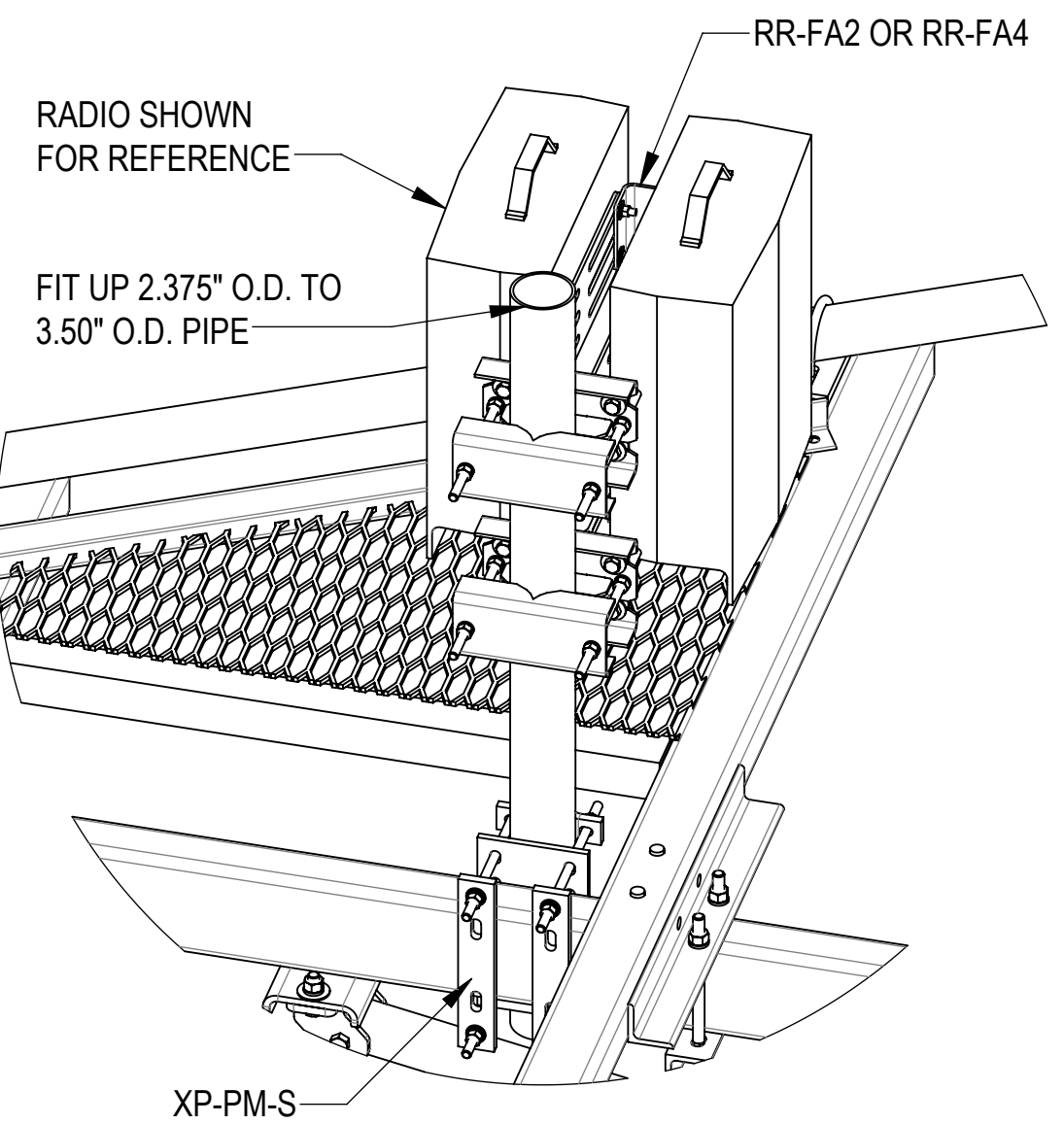
MP RRU SUPPORT KIT:
XP-PM-D
XP-PM-S
RR-FA2 OR RR-FA4

XP-PM-D MOUNTED VIEW



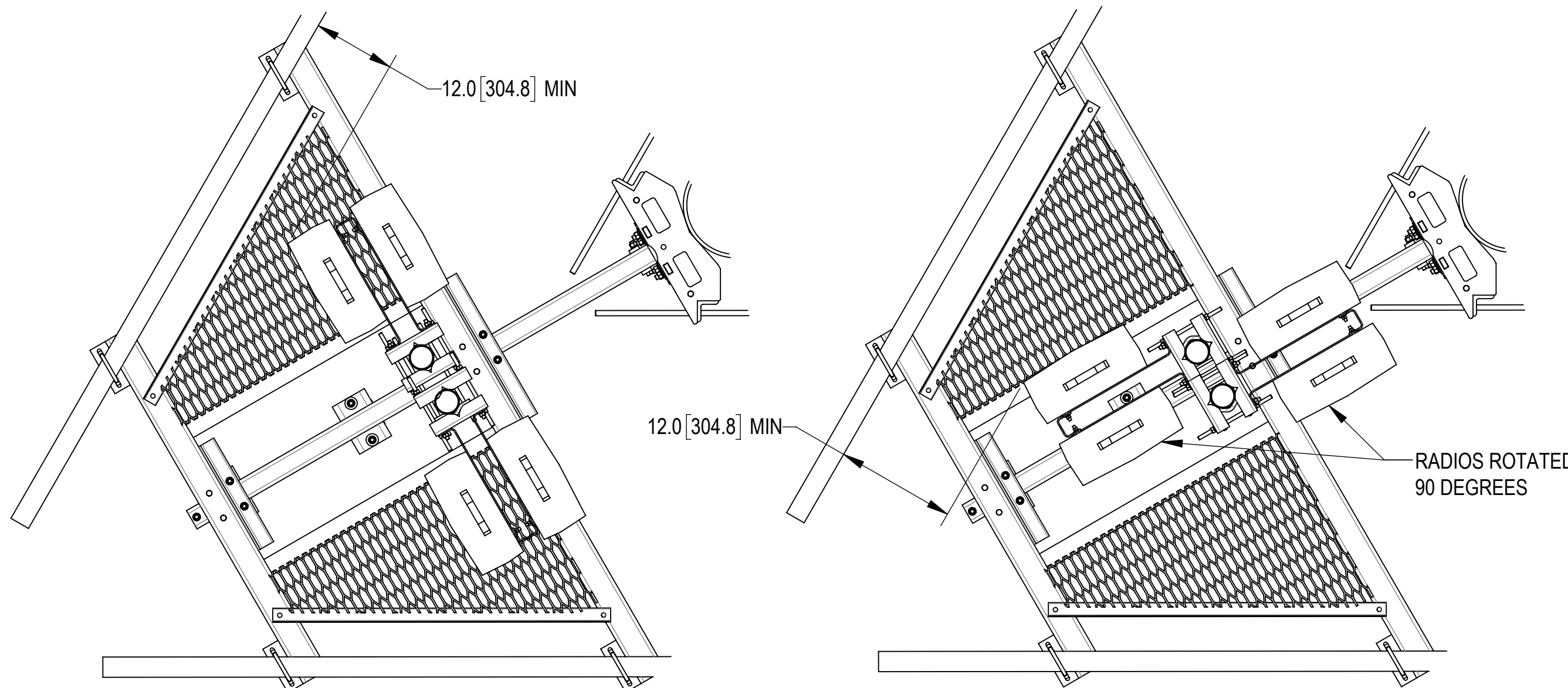
XP-PM-D

(HIDE ONE SIDE OF THE RRU FOR CLARITY)
DETAIL XP-PM-D MOUNTED VIEW
SCALE 1 : 10



XP-PM-S

DETAIL XP-PM-S MOUNTED VIEW
SCALE 1 : 10



COMMScope, INC. OF NORTH CAROLINA				
TITLE				
MP,15',3S,(15)2.88"X96"PIPE,W/HR				
SIZE	SCALE	DOCUMENT NO.		
C	1:20	MP-PP15M-15C-96		
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		00	RE	C
				SHEET
				10 OF 10