

T-Mobile

T-Mobile

4830 PAN AMERICAN FREEWAY, SUITE A
ALBUQUERQUE, NM 87109

T-MOBILE SITE NUMBER: DN06164A
T-MOBILE SITE NAME: SPRINT RETAIN SITE DN14XC248
T-MOBILE PROJECT: SPRINT RETAIN

BUSINESS UNIT #: 877034
SITE ADDRESS: LUCKY FOUR RANCH, WEST HWY 24
GREEN MOUNTAIN FALLS, CO 80819
COUNTY: EL PASO
SITE TYPE: MONOPOLE
TOWER HEIGHT: 60'-2"

Please add "PCD File No. PPR-21-070" to the site development plan.

Please add the following:
- Owner name, contact telephone number, and email for responsible party
- Applicant name (if not owner), contact telephone number, and email for responsible party
- Plan preparer name, telephone number, and email
- Property address
- Legal description
- Lot/parcel size
- Lot area coverage calculation
- Total gross building square footage



2055 S. STEARMAN DRIVE
CHANDLER, AZ 85286



RAMAKER
employee-owned

(608) 643-4100 www.ramaker.com
PROJECT #: 52470

T-MOBILE SITE NUMBER:
DN06164A

BU #: 877034
USWW UTE PASS

LUCKY FOUR RANCH, WEST
HWY 24
GREEN MOUNTAIN FALLS,
CO 80819

EXISTING 60'-2" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/17/2021	MDP	FINAL	JF
1	08/30/2021	AMW	REVISIONS	JF

SITE INFORMATION

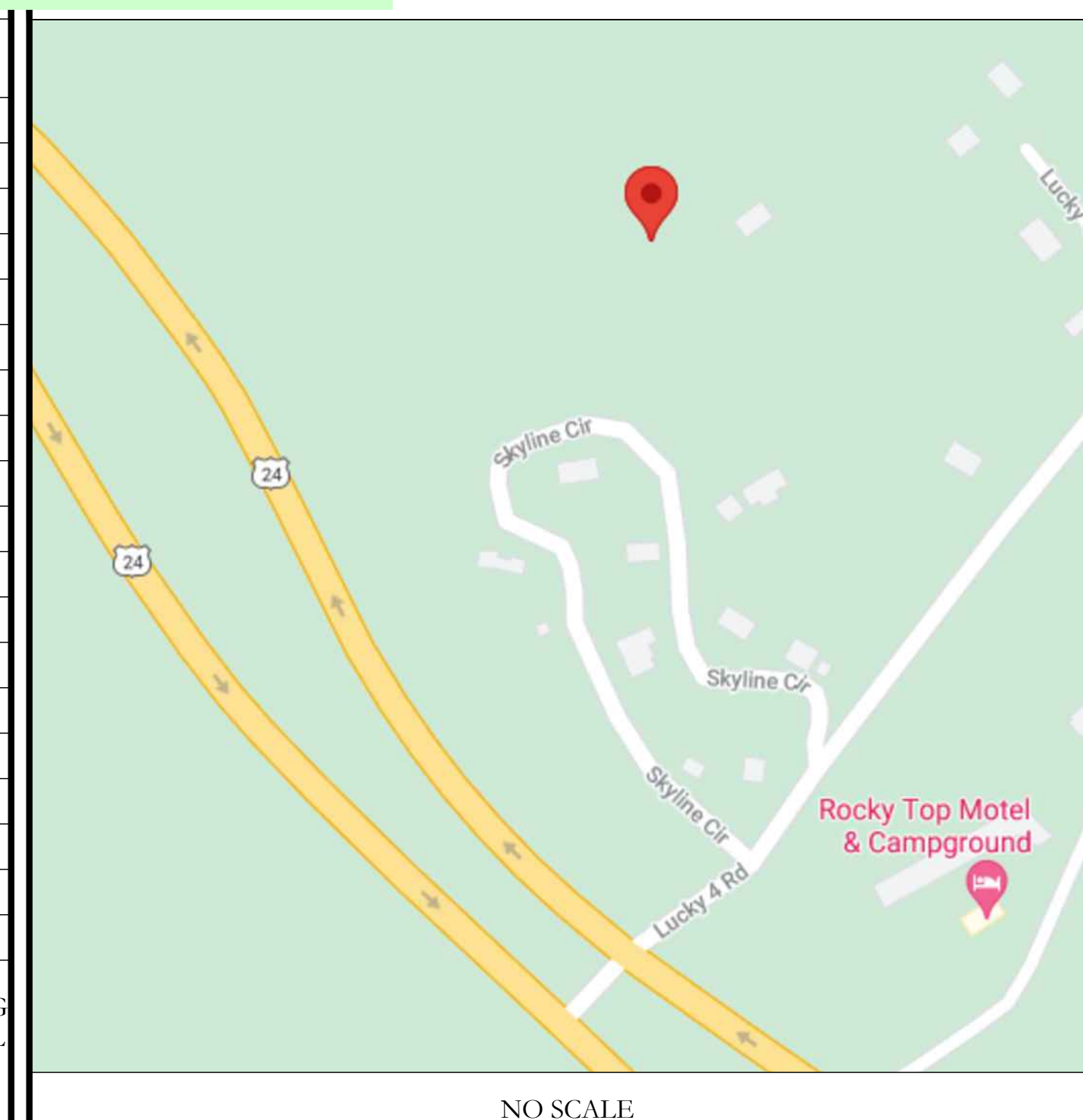
CROWN CASTLE USA INC. USWW UTE PASS
SITE NAME:
SITE ADDRESS: LUCKY FOUR RANCH, WEST HWY 24
GREEN MOUNTAIN FALLS, CO 80819
COUNTY: EL PASO
MAP/PARCEL #: 8309200031
AREA OF CONSTRUCTION: EXISTING
LATITUDE: 38.93850600
LONGITUDE: -105.00784700
LAT/LONG TYPE: NAD83
GROUND ELEVATION: 7,987'
CURRENT ZONING: R-T: RESIDENTIAL-TOPOGRAPHIC
JURISDICTION: EL PASO COUNTY
OCCUPANCY CLASSIFICATION: U
TYPE OF CONSTRUCTION: IIB
A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER: GWYN DEAN SMISCHNY TRUST
825 5TH ST SE
PELICAN RAPIDS, MN 56572
TOWER OWNER: CROWN CASTLE
2000 CORPORATE DRIVE
CANONSBURG, PA 15317
CARRIER/APPLICANT: T-MOBILE
4830 PAN AMERICAN FREEWAY, SUITE A
ALBUQUERQUE, NM 87109
ELECTRIC PROVIDER: ----
TELCO PROVIDER: ----

DRAWING

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	OVERALL SITE PLAN
C-1.2	EXISTING SITE PLAN
C-1.3	FINAL EQUIPMENT PLAN
C-2	EXISTING & FINAL ELEVATIONS
C-3	EXISTING & FINAL ANTENNA PLANS
C-4	FINAL EQUIPMENT SCHEDULE
C-5	EQUIPMENT SPECS
C-6	EQUIPMENT SPECS
C-7.1	EQUIPMENT SPECS
C-7.2	EQUIPMENT SPECS
E-1	ELECTRIC SITE PLAN & ONE LINE DIAGRAM
G-1	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 22X34. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

LOCATION MAP



NO SCALE

SITE PHOTO



PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:

- MOUNT SWAP TO MC-PM12M-AP4 w/ MT-195-12HD, PVS-050B-U
- REMOVE (2) ANTENNAS
- REMOVE (4) RRHs
- INSTALL (6) ANTENNAS
- INSTALL (6) RRHs
- INSTALL (2) BREAKOUT PENDANTS
- INSTALL (1) HYBRID CABLE (1-7/16")
- INSTALL (2) HYBRID CABLES (1-1/2")

GROUND SCOPE OF WORK:

- REPLACE 100A PPC WITH 200A PPC
- INSTALL (1) POWER CABINET
- INSTALL (1) BATTERY CABINET
- INSTALL (1) 200A PPC
- INSTALL (2) JUNCTION BOXES
- INSTALL (3) ABIA
- INSTALL (3) ABIC
- INSTALL (6) ABIL
- INSTALL (2) AMIA
- INSTALL (2) ASIB
- INSTALL (2) ASIK
- INSTALL (1) FSMF
- INSTALL (1) CSR IXRe V2 (GEN2)
- INSTALL ICE BRIDGE

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2020 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: BY OTHERS
DATED:
MOUNT ANALYSIS: BY OTHERS
DATED:
RFDS REVISION: 1
DATED: 05/07/2021
ORDER ID: 568701
REVISION: 0

PROJECT TEAM

A&E FIRM: CROWN CASTLE USA INC.
2000 CORPORATE DRIVE
CANONSBURG, PA 15317
CROWN.AE.APPROVAL@CROWNCastle.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:
2055 S. STEARMAN DRIVE
CHANDLER, AZ 85286
BRYCE NORTHCUTT - PROJECT MANAGER

JUSTIN LOPEZ - CONSTRUCTION MANAGER

PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Colorado.



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SHEET NUMBER: T-1 **REVISION:** 1



CALL COLORADO ONE CALL
(800) 922-1987
CALL 3 WORKING DAYS
BEFORE YOU DIG!



SITE PLAN DISCLAIMER:
 PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM BING MAPS. CROWN CASTLE USA INC. HAS NOT COMPLETED A SITE SURVEY AND THEREFORE MAKES NO CLAIMS AS TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET.



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 employee-owned
 (608) 643-4100 www.ramaker.com
 PROJECT #: 52470

T-MOBILE SITE NUMBER:
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BU #: 877034
USWW UTE PASS

LUCKY FOUR RANCH, WEST
 HWY 24
 GREEN MOUNTAIN FALLS,
 CO 80819

EXISTING 60'-2" MONOPOLE

ISSUED FOR:

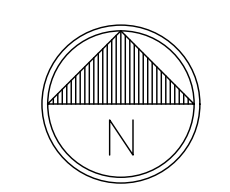
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APN: 8309200031
 ZONING: R-T: RESIDENTIAL-TOPOGRAPHIC

1 OVERALL SITE PLAN
 SCALE: 1" = 80'-0" (FULL SIZE)
 1" = 160'-0" (11x17)



SHEET NUMBER: C-1.1
REVISION: 1



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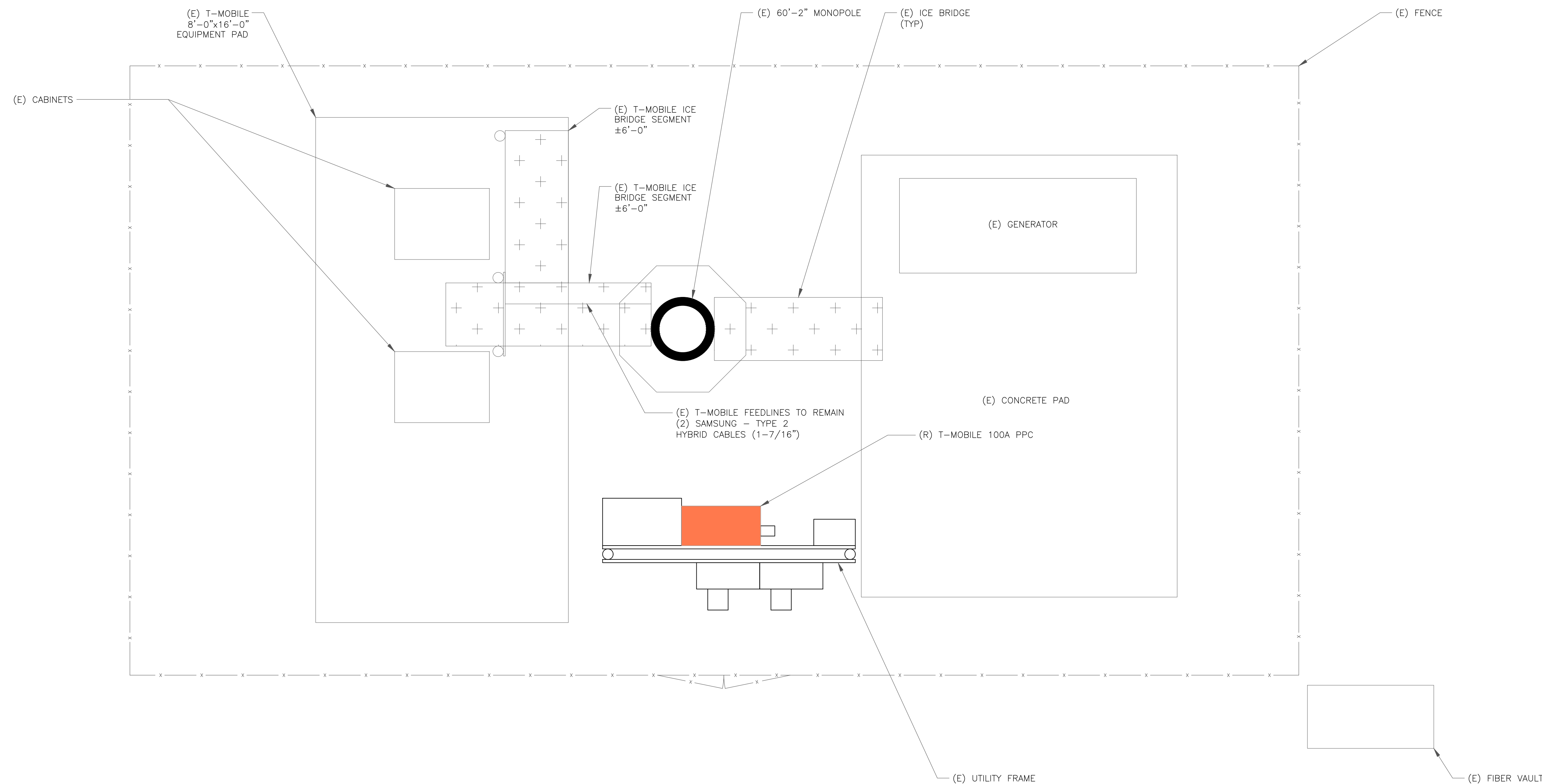
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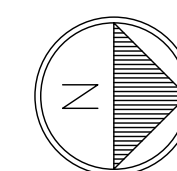
SHEET NUMBER: REVISION:

C-1.2 **1**



1 EXISTING SITE PLAN

SCALE: 1"=1'-0" (FULL SIZE)
1/2"=1'-0" (11x17)



INSTALLER NOTE:
 AMIAs ARE TO BE INSTALLED INTERNALLY IN THE 600A SSC CABINET. IF NO 600A SSC CABINET IS ON SITE, AMIAs ARE TO BE SUBSTITUTED WITH AMOBs. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING APPROPRIATE LOCATION WITHIN T-MOBILE LEASE AREA FOR AMOB MOUNTING AND PROVIDE TO CONSTRUCTION MANAGER. AMOB LOCATIONS MUST BE APPROVED BY CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

GROUND SCOPE OF WORK:
 • REPLACE 100A PPC WITH 200A PPC
 • INSTALL (1) POWER CABINET
 • INSTALL (1) BATTERY CABINET
 • INSTALL (2) JUNCTION BOXES
 • INSTALL (3) ABIA
 • INSTALL (3) ABIC
 • INSTALL (6) ABIL
 • INSTALL (2) AMIA
 • INSTALL (2) ASIB
 • INSTALL (2) ASIK
 • INSTALL (1) FSMF

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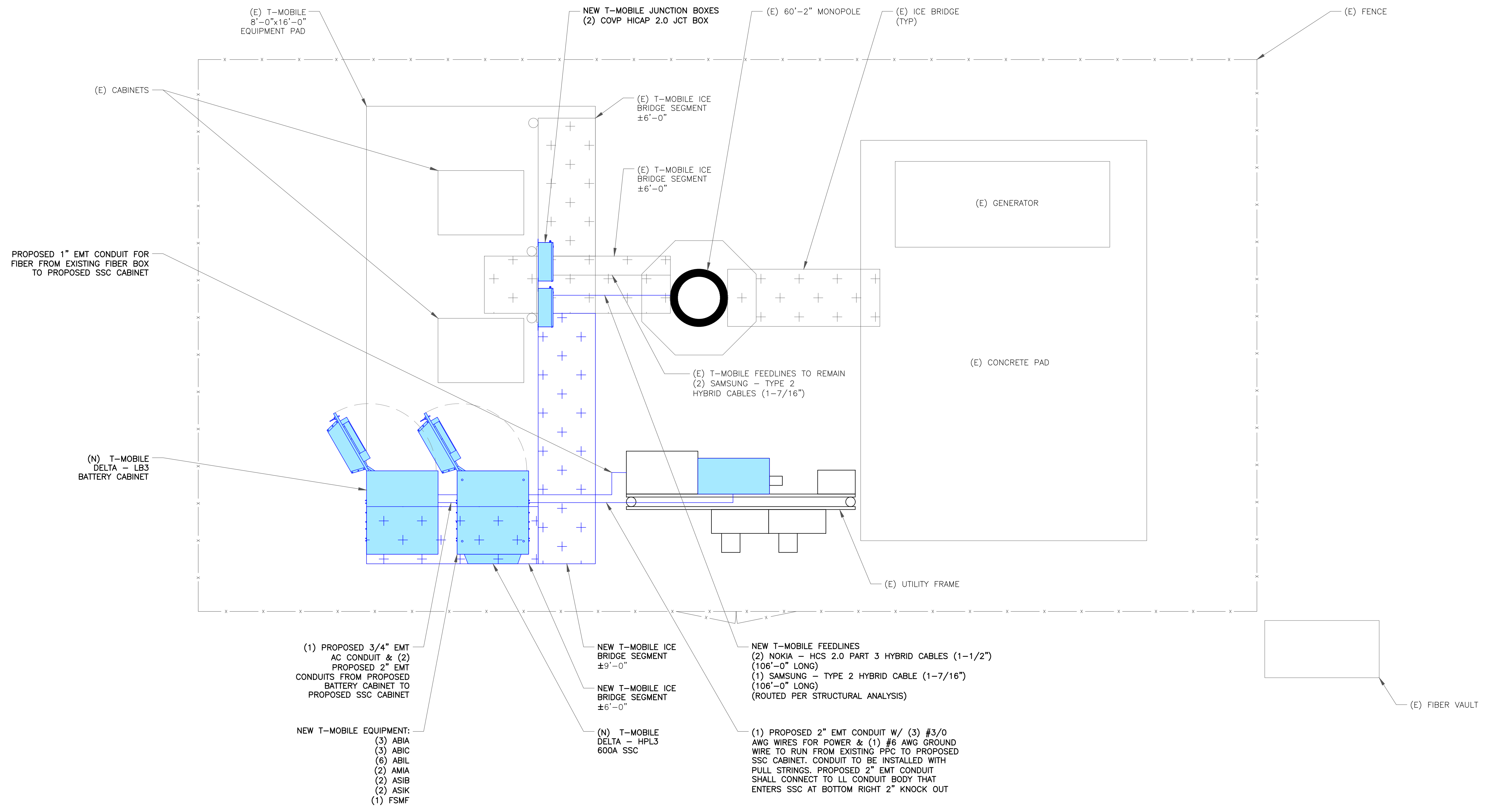
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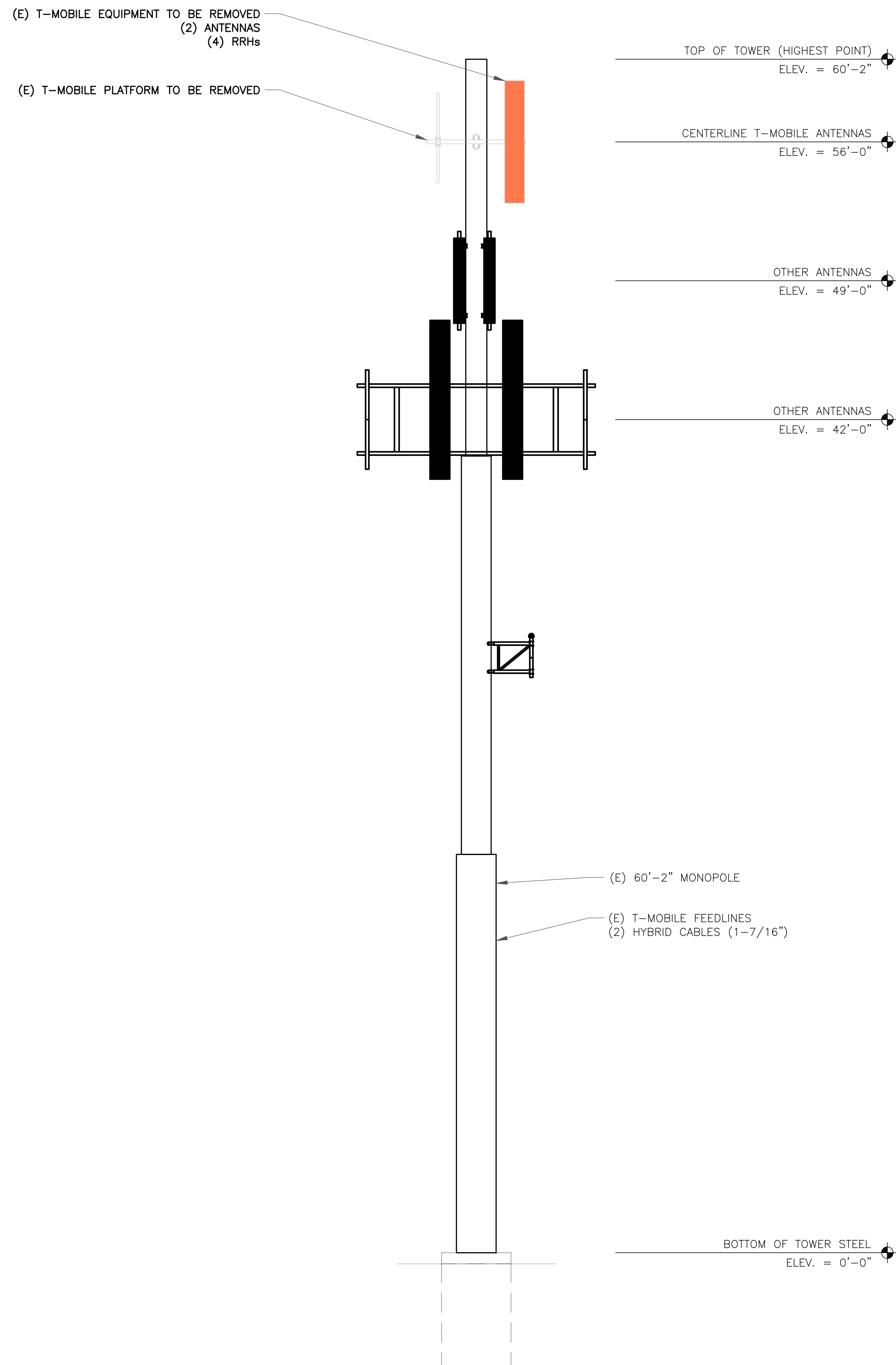
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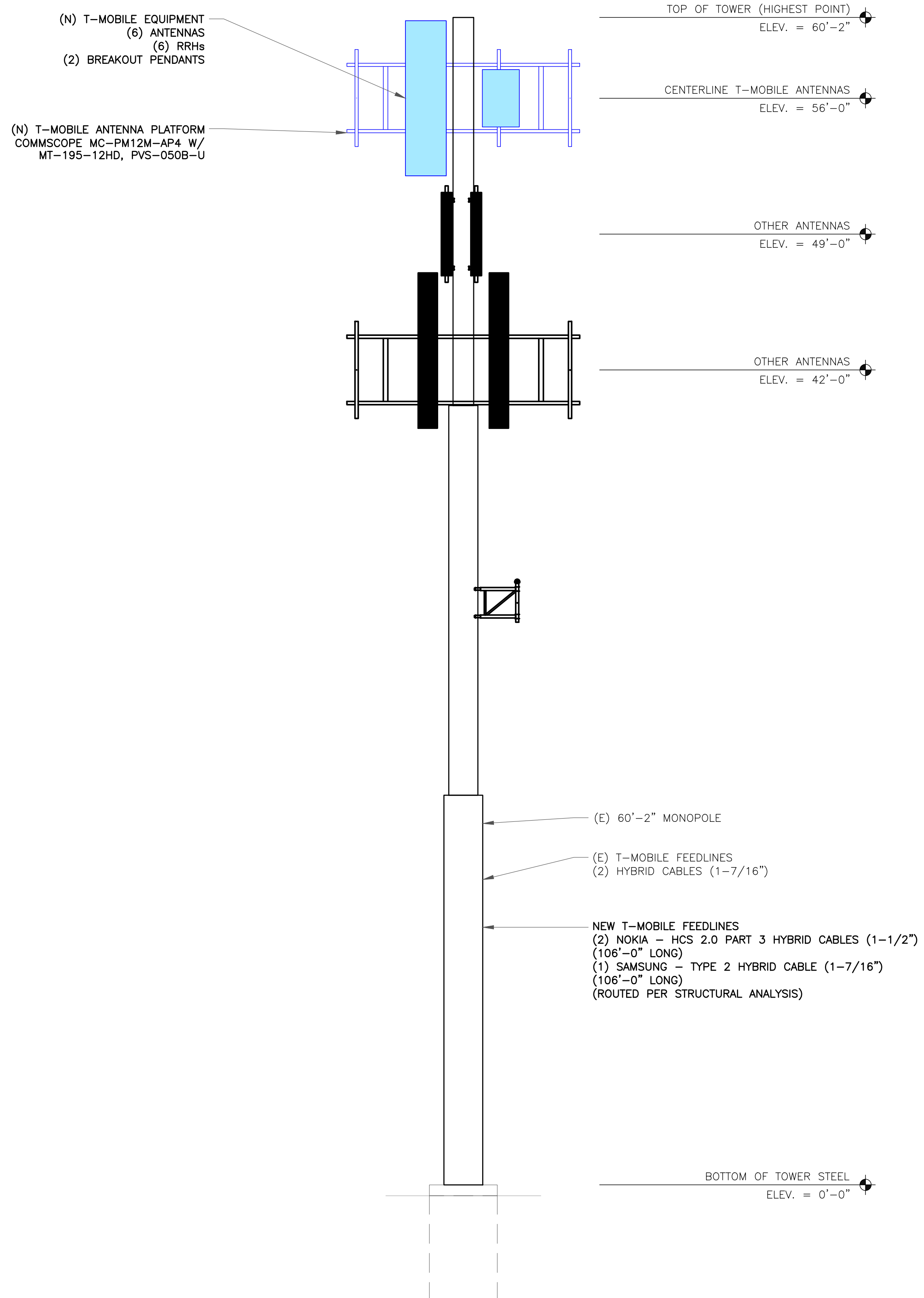
PROFESSIONAL ENGINEER
 36936
 8/30/2021

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1 EXISTING ELEVATION
SCALE: NOT TO SCALE



2 FINAL ELEVATION
SCALE: NOT TO SCALE

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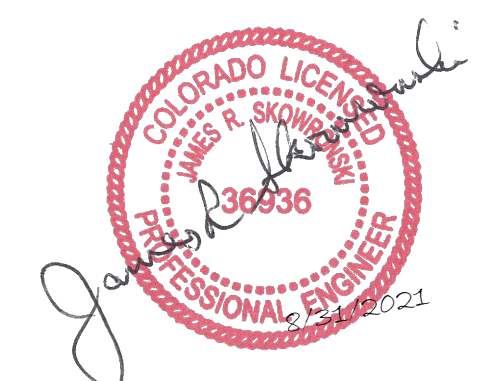
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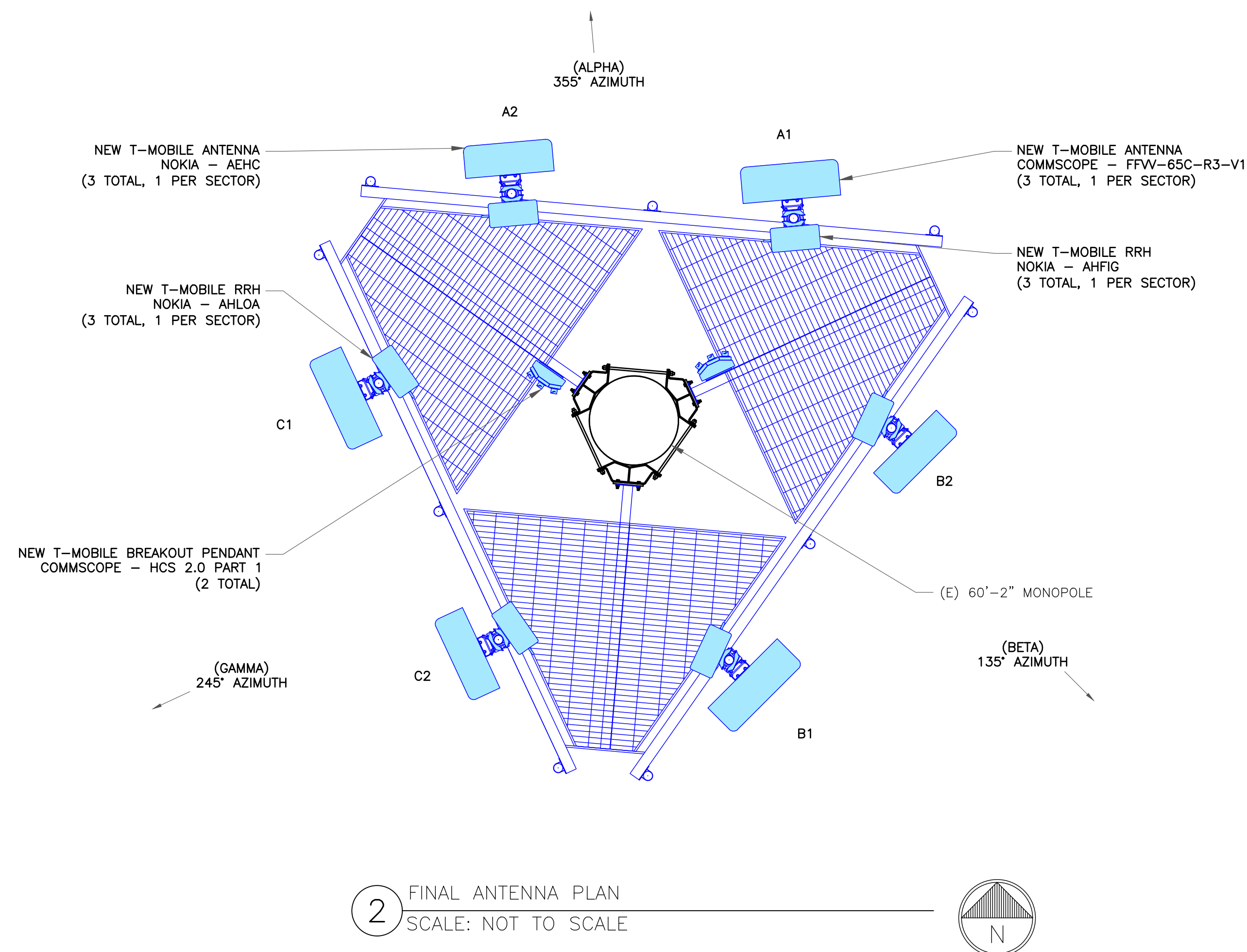
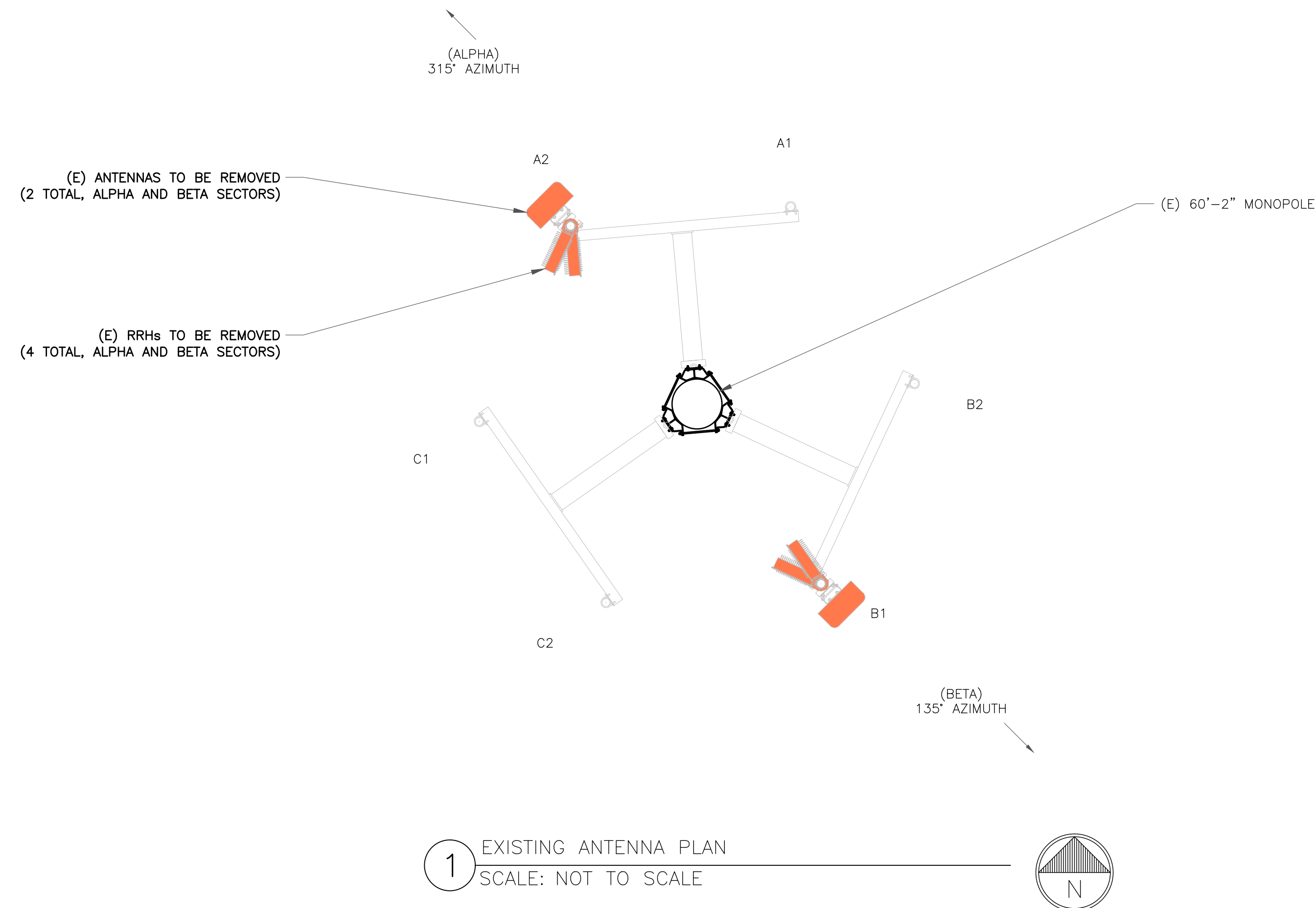
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SHEET NUMBER: C-2 REVISION: 1



"LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENTS

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

- NOTES:**
1. REFERENCE C-4 FOR FINAL EQUIPMENT SCHEDULE.
 2. REFERENCE C-5 FOR NEW EQUIPMENT SPECIFICATIONS.
 3. CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.

- TOWER SCOPE OF WORK:**
- REMOVE (2) ANTENNAS
 - REMOVE (4) RRHs
 - INSTALL (6) ANTENNAS
 - INSTALL (6) RRHs
 - INSTALL (2) BREAKOUT PENDANTS
 - INSTALL (1) HYBRID CABLE (1-7/16")
 - INSTALL (2) HYBRID CABLES (1-1/2")

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8/30/2021

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SHEET NUMBER: **C-3** REVISION: **1**

FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

ALPHA																		
POSITION	ANTENNA					RADIO			DIPLEXER			TMA		SURGE PROTECTION		CABLES		
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A1	L2500, N2500	(N) NOKIA AEHC	355°	56'-0"	1	(N) AHLOA	TOWER	-	-	-	-	-	-	-	1	(E) HYBRID	1-7/16"	106'-0"
A2	L600, N600, L700, L1900, N1900, G1900, L2100, N2100	(N) COMMSCOPE FFW-65C-R3-V1	355°	56'-0"	1	(N) AHFIG	TOWER	-	-	-	-	-	1	(N) HCS 2.0 PART 1	1	(N) HYBRID	1-1/2"	106'-0"
-	-	-	-	-	-	-	-	-	-	-	-	-	1	(N) HCS 2.0 PART 1	1	(N) HYBRID	1-1/2"	106'-0"
-	-	-	-	-	-	-	-	-	-	-	-	-	1	(N) COMMSCOPE HCS 2.0	1	(N) PENDANT	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	1	(N) COMMSCOPE HCS 2.0	1	(N) PENDANT	-	-
BETA																		
B1	L2500, N2500	(N) NOKIA AEHC	135°	56'-0"	1	(N) AHLOA	TOWER	-	-	-	-	-	-	-	1	(E) HYBRID	1-7/16"	106'-0"
B2	L600, N600, L700, L1900, N1900, G1900, L2100, N2100	(N) COMMSCOPE FFW-65C-R3-V1	135°	56'-0"	1	(N) AHFIG	TOWER	-	-	-	-	-	-	-	-	-	-	-
GAMMA																		
C1	L2500, N2500	(N) NOKIA AEHC	245°	56'-0"	1	(N) AHLOA	TOWER	-	-	-	-	-	-	-	1	(N) HYBRID	1-7/16"	106'-0"
C2	L600, N600, L700, L1900, N1900, G1900, L2100, N2100	(N) COMMSCOPE FFW-65C-R3-V1	245°	56'-0"	1	(N) AHFIG	TOWER	-	-	-	-	-	-	-	-	-	-	-
															0	(E) UNUSED	-	-

NOTE:
(E) - EXISTING
(N) - NEW

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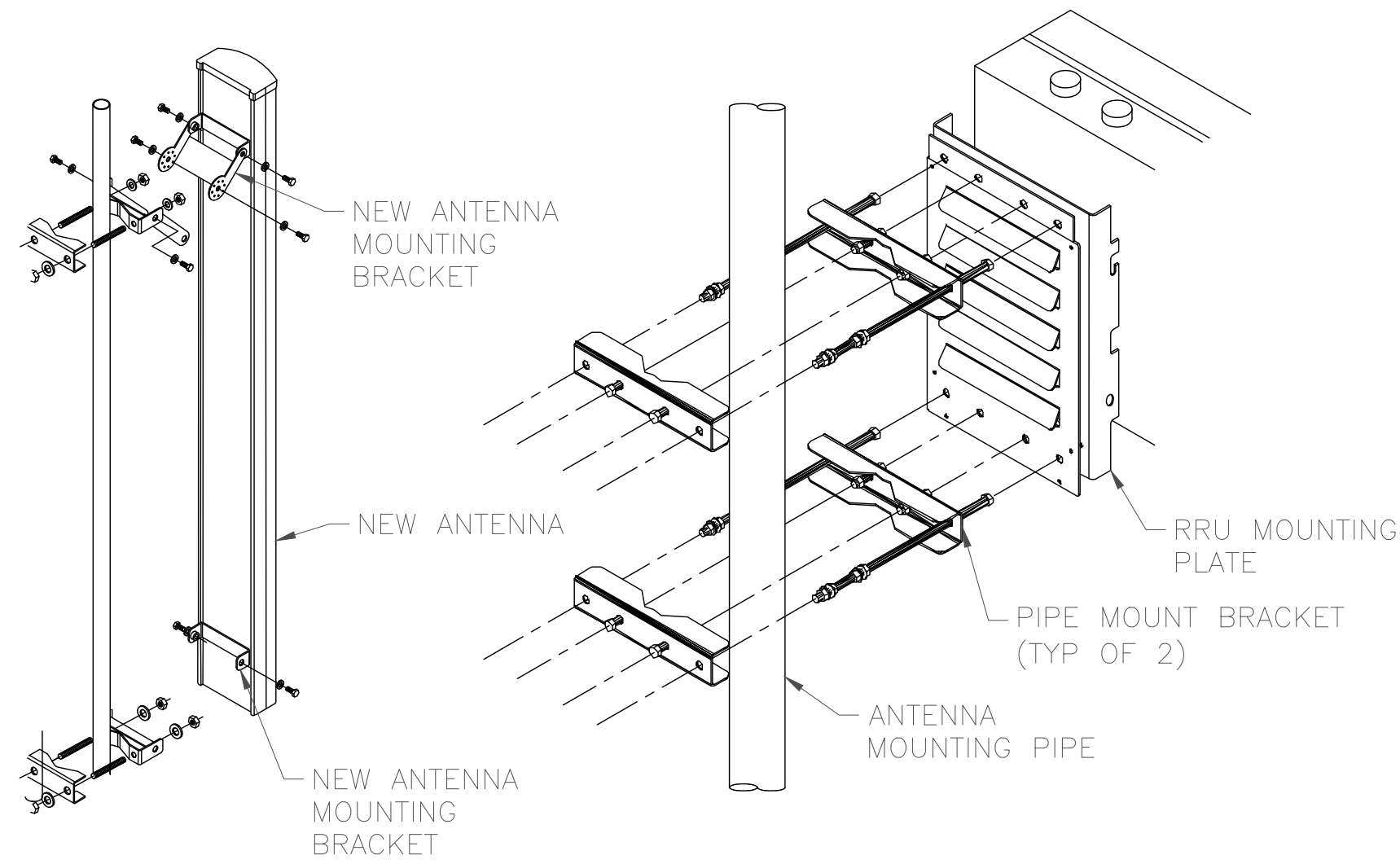
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INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRUs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRU PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



NOTE:
ALL PIPES BRACKETS AND MISCELLANEOUS
HARDWARE TO BE GALVANIZED UNLESS
NOTED OTHERWISE

1 ANTENNA WITH RRH MOUNTING DETAIL
SCALE: NOT TO SCALE



COMMSCOPE ANTENNA
MODEL NUMBER: FFV-65C-R3-V1
DIMENSIONS: 95.90" (HEIGHT) X 25.20" (WIDTH) X 9.30" (DEPTH)
WEIGHT: 124.60 LBS.

2 COMMSCOPE ANTENNA
SCALE: NOT TO SCALE



NOKIA ANTENNA
MODEL NUMBER: AEHC
DIMENSIONS: 35.43" (HEIGHT) X 22.83" (WIDTH) X 8.26" (DEPTH)
WEIGHT: 99.20 LBS.

3 NOKIA AEHC ANTENNA
SCALE: NOT TO SCALE



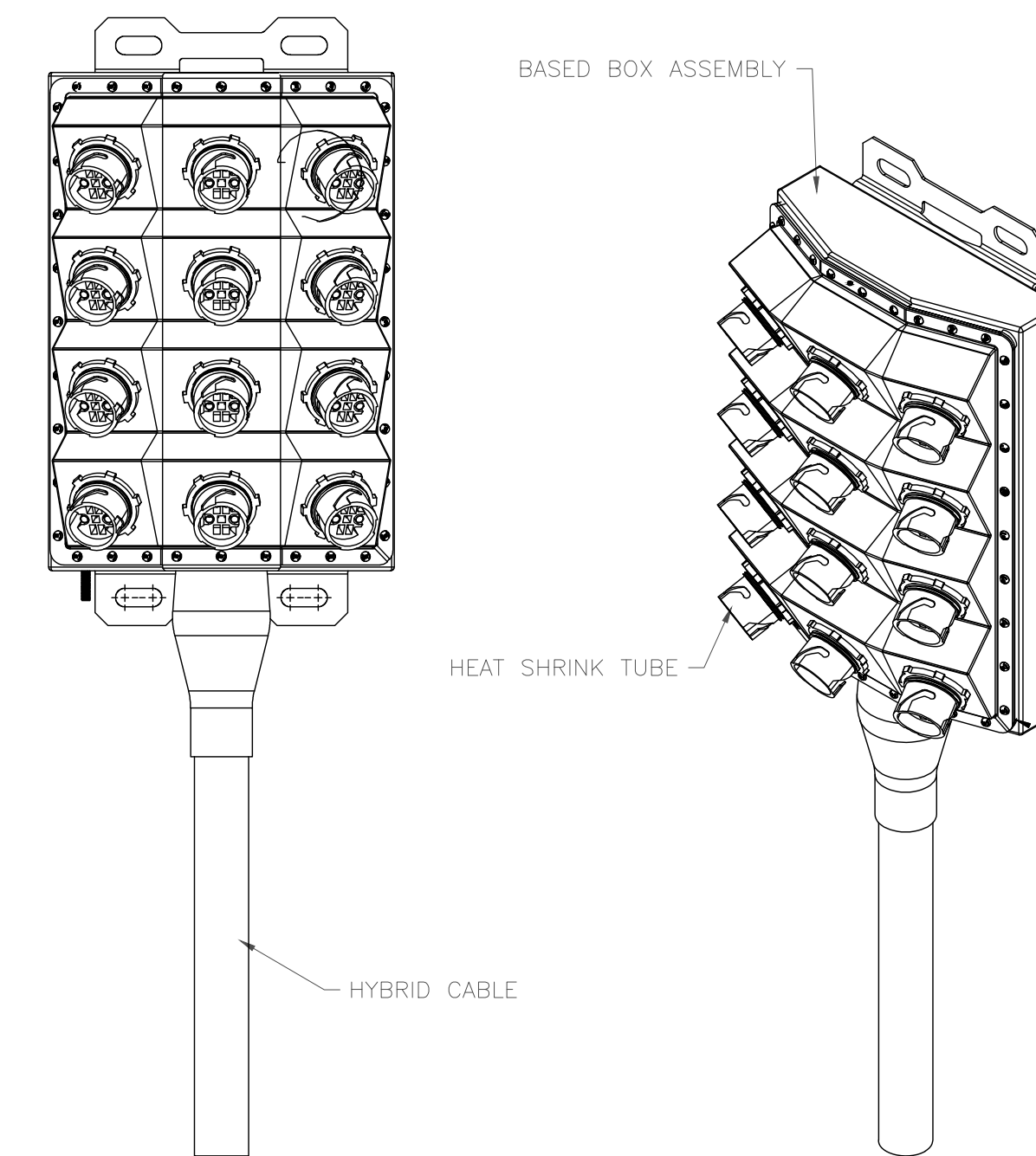
NOKIA RRH
MODEL NUMBER: AHLOA
DIMENSIONS: 26.60" (HEIGHT) X 12.90" (WIDTH) X 8.10" (DEPTH)
WEIGHT: 83.80 LBS.

4 NOKIA RRH
SCALE: NOT TO SCALE



NOKIA RRH
MODEL NUMBER: AHFIG
DIMENSIONS: 28.74" (HEIGHT) X 12.87" (WIDTH) X 5.59" (DEPTH)
WEIGHT: 70.55 LBS.

5 NOKIA RRH
SCALE: NOT TO SCALE



COMMSCOPE JUNCTION BOX
MODEL NUMBER: HCS 2.0 PART 1
DIMENSIONS: 14.00" (HEIGHT) X 16.00"
(WIDTH) X 8.00" (DEPTH)
WEIGHT: 23.5 LBS.

6 COMMSCOPE HCS 2.0 PART 1
SCALE: NOT TO SCALE

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SHEET NUMBER:

C-5

REVISION:

1



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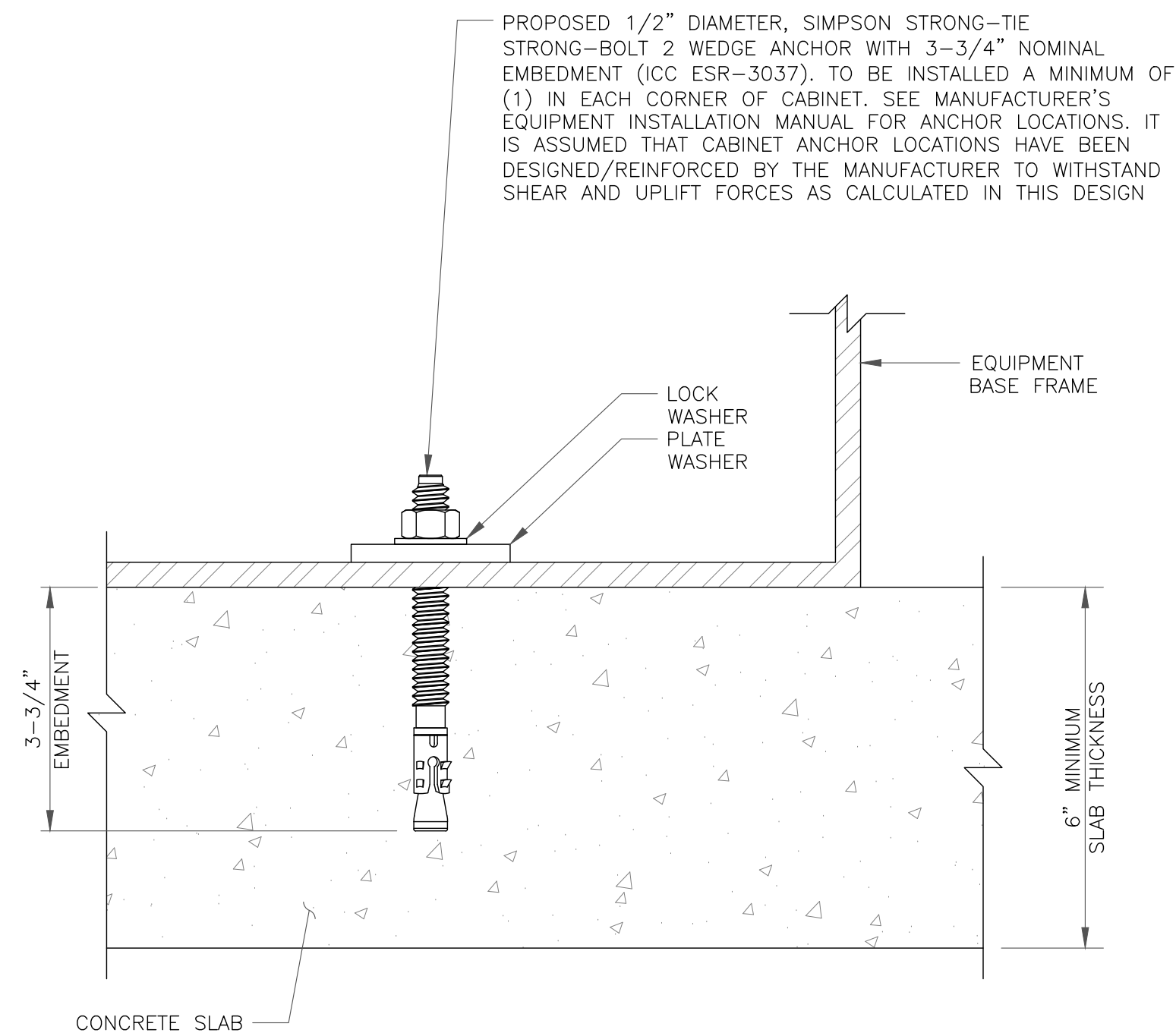
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SHEET NUMBER:

C-6

REVISION:

1



1 CABINET ANCHOR DETAIL
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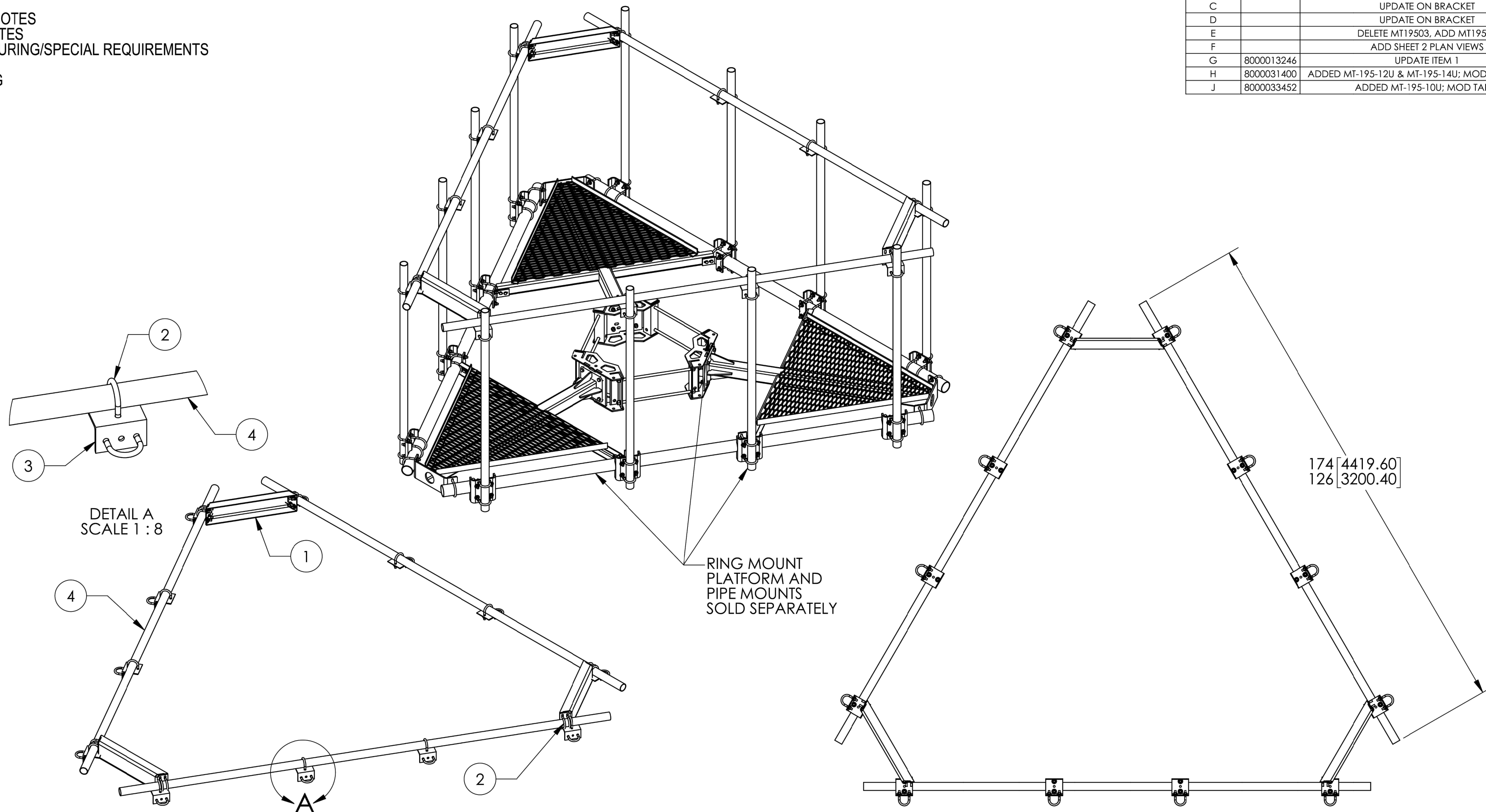
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SCALE: NOT TO SCALE

3 NOT USED
SCALE: NOT TO SCALE

NOTES:

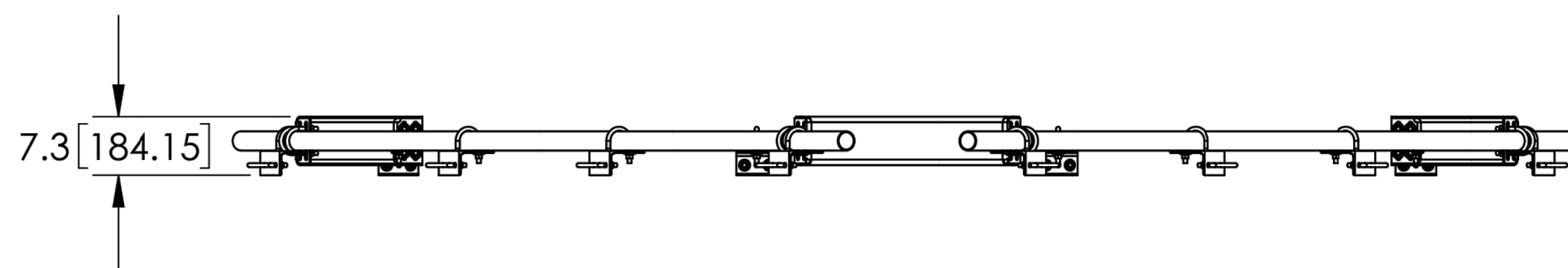
- 1.0 GENERAL NOTES
- 2.0 DESIGN NOTES
- 3.0 MANUFACTURING/SPECIAL REQUIREMENTS
- 4.0 TEST
- 5.0 PACKAGING

REV.	ZONE	DESCRIPTION	BY	DATE
C		UPDATE ON BRACKET	DI	01/19/05
D		UPDATE ON BRACKET	AG	04/27/05
E		DELETE MT19503, ADD MT19525	MSM	05/16/12
F		ADD SHEET 2 PLAN VIEWS	MSM	05/08/14
G	8000013246	UPDATE ITEM 1	CEB	3/28/2016
H	8000031400	ADDED MT-195-12U & MT-195-14U; MOD TABLE & SH 2	RJC	09/24/18
J	8000033452	ADDED MT-195-10U; MOD TABLE	RJC	01/14/19



MT-195-12 SHOWN

ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT	NOTE NO.
1	MT19525	CORNER WELDMENT FOR MT-195	3	16.89 LBS	
2	GUB-4240	1/2" X 2-1/2" X 4" GALV U-BOLT	36	0.56 LBS	
3	XA2020.01	ANTENNA MOUNT ANGLE	12	2.65 LBS	
4	MT-651-150	PIPE, 2-3/8"OD X 150" GALV	3	36.01 LBS	



BOTTOM VIEW

COMMSCOPE, INC. OF NORTH CAROLINA

TOLERANCES		SAP MATERIAL MASTER																																																										
1 PLACE .X ± .25	3 PLACE .XXX ± 0.06	MT-195-12																																																										
2 PLACE .XX ± 0.12	ANGLES ± 2°																																																											
FINISH GALV A123		MATERIAL A1011, A500																																																										
<table border="1" style="width: 100%; font-size: small;"> <thead> <tr> <th>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET PER ANSI Y 14.5M-1984</th> <th>NAME</th> <th>DATE</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>CE</td> <td>DI</td> <td>01/09/05</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">TOP MOUNT KIT SERIES</td> </tr> <tr> <td>RW</td> <td>BCAMPBELLCON</td> <td>01/15/2019</td> </tr> <tr> <td>RV</td> <td></td> <td></td> </tr> <tr> <td>AD</td> <td>RD1048</td> <td>01/15/2019</td> </tr> <tr> <td>RE</td> <td>RD1048</td> <td>01/28/2019</td> <td>SCALE</td> <td>DOCUMENT NO.</td> </tr> <tr> <td>ECN</td> <td>008000033452</td> <td></td> <td style="text-align: center; vertical-align: middle;">1:25</td> <td style="text-align: center; vertical-align: middle;">MT-195-SERIES</td> </tr> </tbody> </table>		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET PER ANSI Y 14.5M-1984	NAME	DATE	TITLE	CE	DI	01/09/05	TOP MOUNT KIT SERIES	RW	BCAMPBELLCON	01/15/2019	RV			AD	RD1048	01/15/2019	RE	RD1048	01/28/2019	SCALE	DOCUMENT NO.	ECN	008000033452		1:25	MT-195-SERIES	<table border="1" style="width: 100%; font-size: small;"> <thead> <tr> <th>SIZE</th> <th>WORK AREA</th> <th>24</th> <th>MODEL</th> <th colspan="3">DRAWING</th> <th>SHEET</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; font-size: x-large;">C</td> <td></td> <td></td> <td></td> <td>VERSION</td> <td>STATUS</td> <td>REVISION</td> <td>VERSION</td> <td>STATUS</td> <td>REVISION</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">02</td> <td style="text-align: center;">RE</td> <td style="text-align: center;">J</td> <td style="text-align: center;">04</td> <td style="text-align: center;">RE</td> <td></td> <td style="text-align: center;">1 OF 2</td> </tr> </tbody> </table>		SIZE	WORK AREA	24	MODEL	DRAWING			SHEET	C				VERSION	STATUS	REVISION	VERSION	STATUS	REVISION						02	RE	J	04	RE		1 OF 2
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				02	RE	J	04	RE		1 OF 2																																																		

PART NUMBER	PIPE	DESCRIPTION	HARDWARE KIT	WEIGHT
MT-195-12	MT-651-150	TOP MOUNT KIT, 12' PLATFORM	MT195HK	240.29 LBS
MT-195-14	MT-537-174	TOP MOUNT KIT, 14' PLATFORM	MT195HK	255.73 LBS
MT-195-10U	MT-537	TOP MOUNT KIT, 10' PLATFORM W/ XA-U	MT195UHK	222.54 LBS
MT-195-12U	MT-651-150	TOP MOUNT KIT, 12' PLATFORM W/ XA-U	MT195UHK	244.66 LBS
MT-195-14U	MT-537-174	TOP MOUNT KIT, 14' PLATFORM W/ XA-U	MT195UHK	260.10 LBS

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CROWN CASTLE

2055 S. STEARMAN DRIVE
CHANDLER, AZ 85286

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employee-owned

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PROJECT #: 52470

T-MOBILE SITE NUMBER:
DN06164A

BU #: **877034**
USWW UTE PASS

LUCKY FOUR RANCH, WEST
HWY 24
GREEN MOUNTAIN FALLS,
CO 80819

EXISTING 60'-2" MONOPOLE

ISSUED FOR:

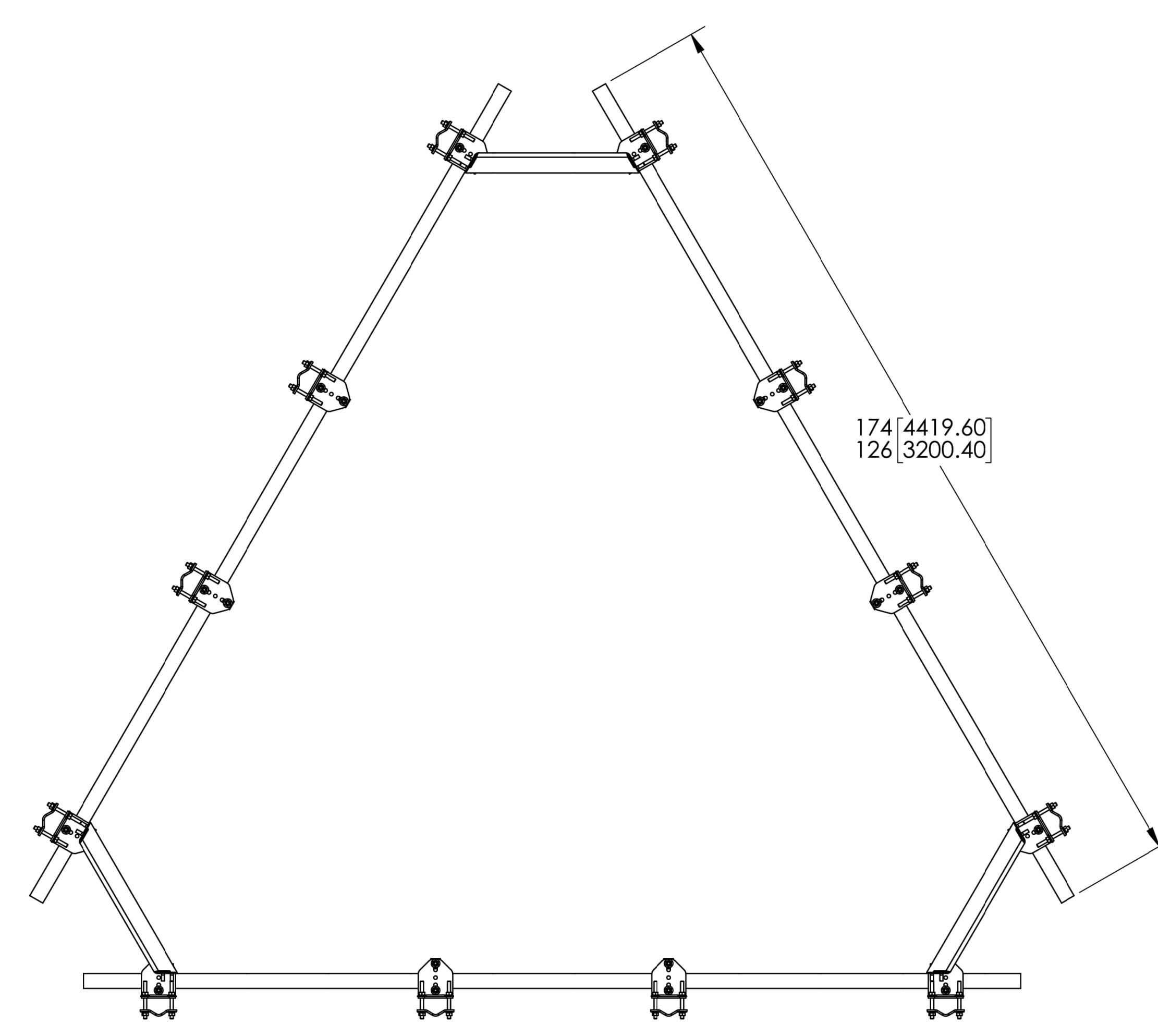
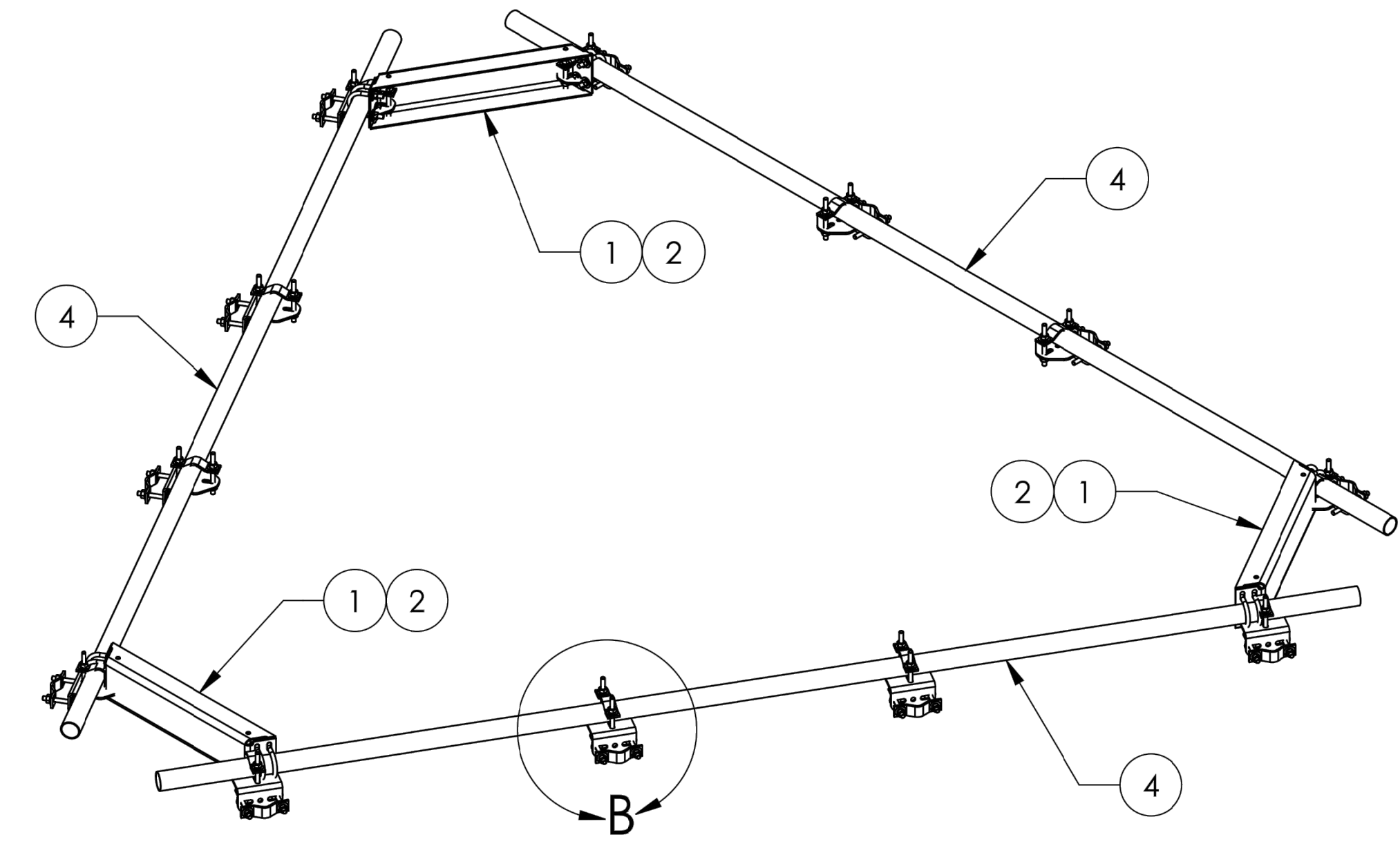
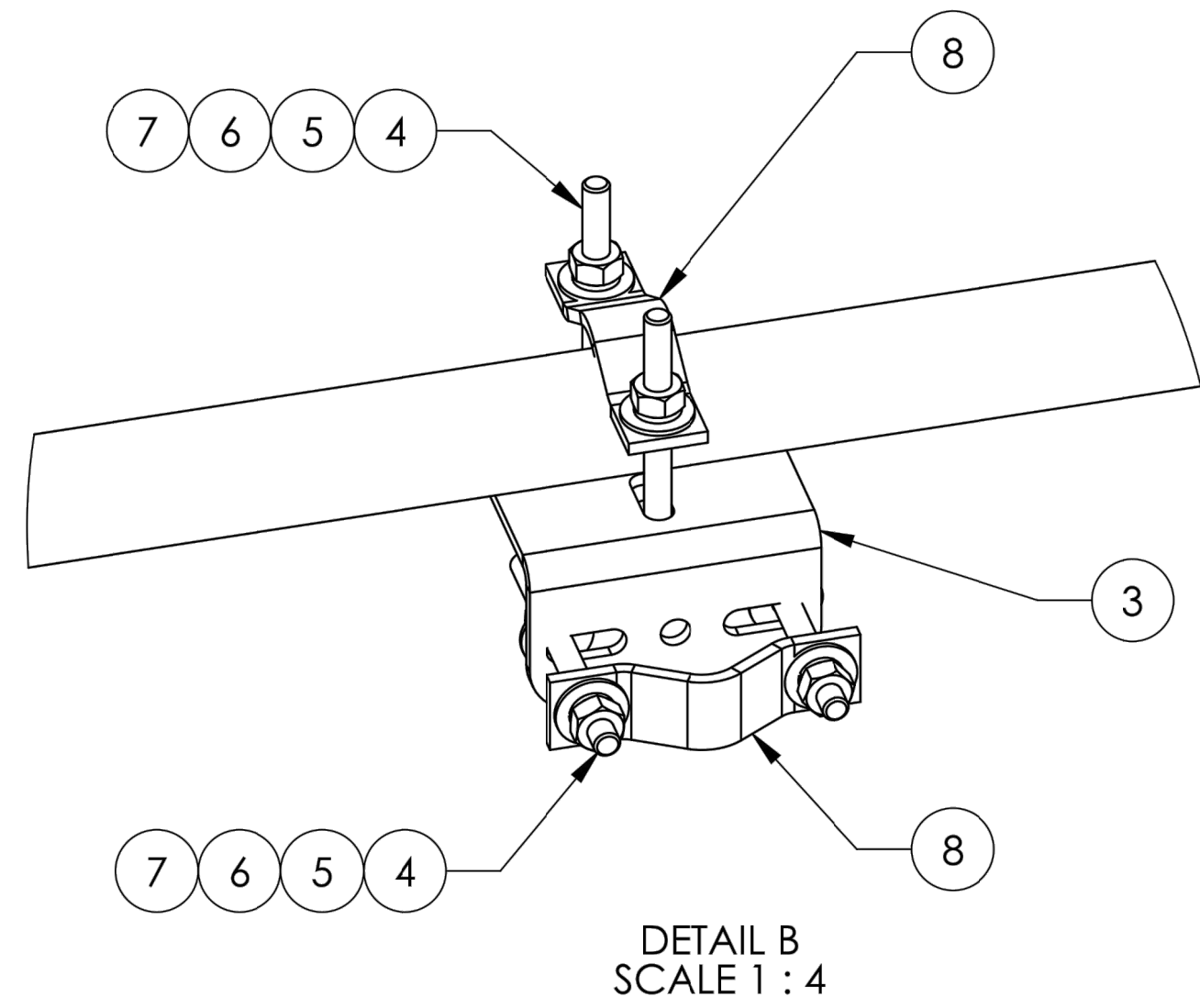
REV	DATE	DRWN	DESCRIPTION	DES/QA
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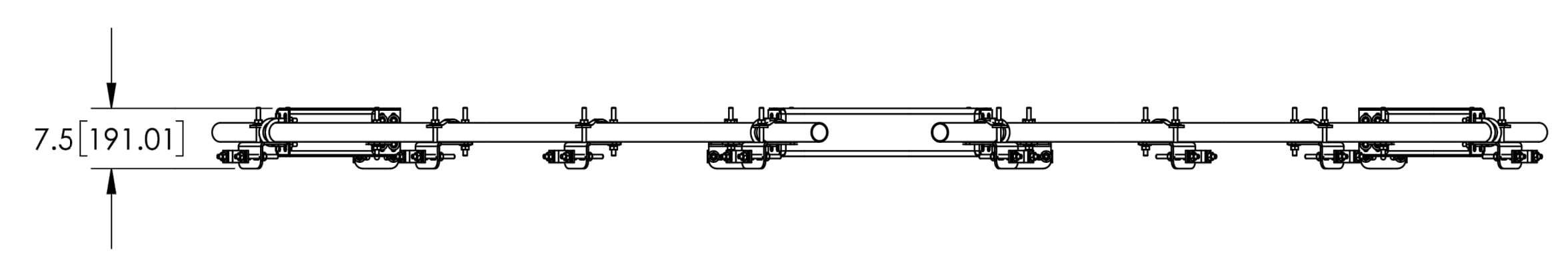
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NOTES:



BOTTOM VIEW



MT-195-12U SHOWN

ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT	NOTE NO.
1	MT19525	CORNER WELDMENT FOR MT-195	3	16.89 LBS	
2	GUB-4240	1/2" X 2-1/2" X 4" GALV U-BOLT	12	0.56 LBS	
3	XAU01	ANGLE, CROSSOVER, 1.9-3.5" X 1.9-3.5" OD	12	2.98 LBS	
4	MT-379-6	1/2" X 6" GALV THREADED ROD	48	0.33 LBS	
5	GWF-04	1/2" GALV FLAT WASHER	96	0.03 LBS	
6	GWL-04	1/2" GALV LOCK WASHER	96	0.01 LBS	
7	GN-04A	1/2" GALV HEX NUT (A194 2H)	96	0.07 LBS	
8	ACP10	1.5" - 3.5" O.D. CLAMP HALF	24	0.61 LBS	
9	MT-651-150	PIPE, 2-3/8"OD X 150" GALV	3	36.01 LBS	

COMMSCOPE, INC. OF NORTH CAROLINA			
TITLE TOP MOUNT KIT SERIES			
SIZE C	SCALE 1:20	DOCUMENT NO. MT-195-SERIES	
DRAWING			SHEET
VERSION 04	STATUS RE	REVISION	2 OF 2

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CO 80819

EXISTING 60'-2" MONOPOLE

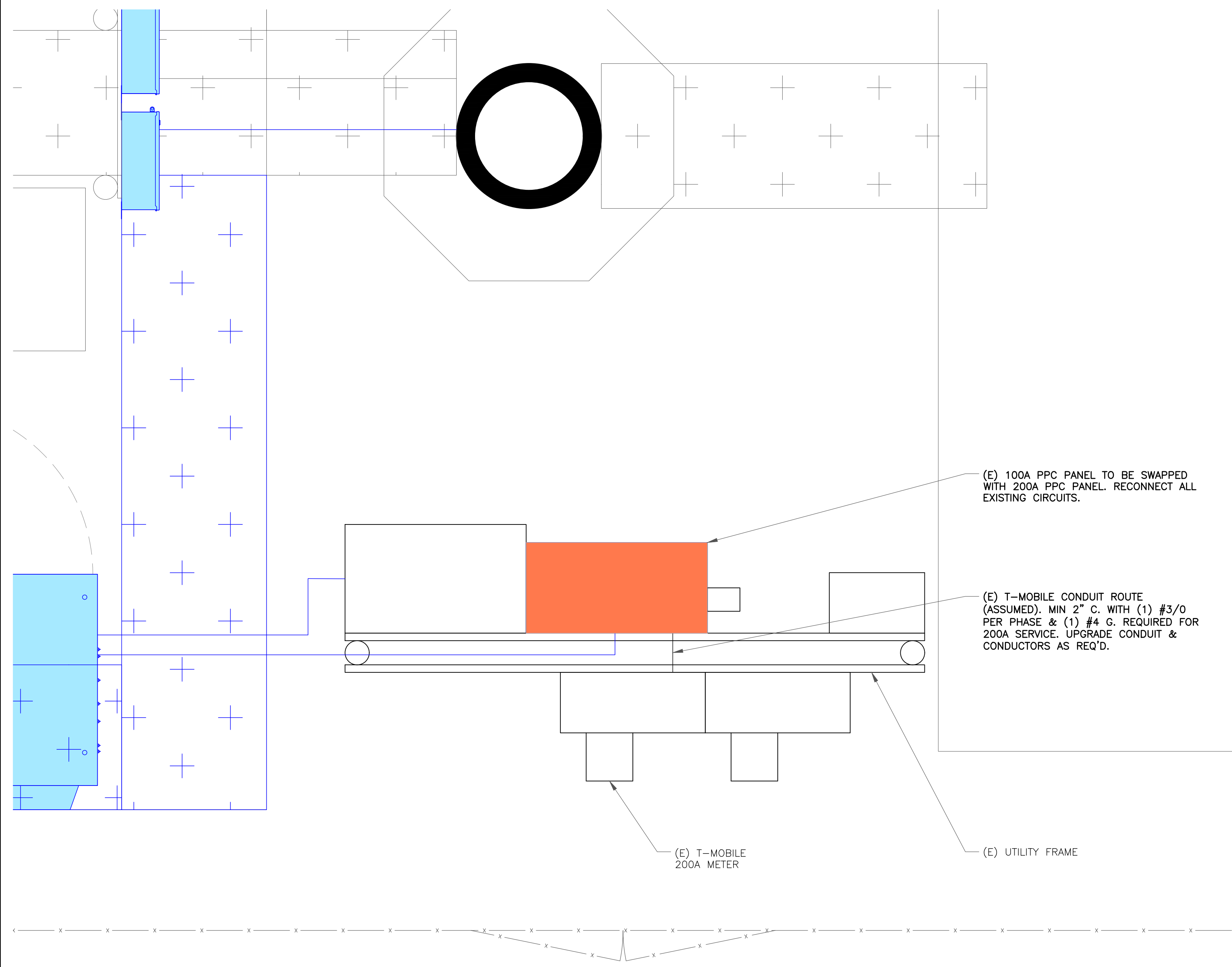
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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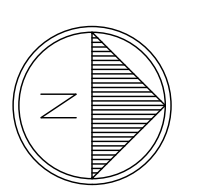
(E) 100A PPC PANEL TO BE SWAPPED WITH 200A PPC PANEL. RECONNECT ALL EXISTING CIRCUITS.

(E) T-MOBILE CONDUIT ROUTE (ASSUMED). MIN 2" C. WITH (1) #3/0 PER PHASE & (1) #4 G. REQUIRED FOR 200A SERVICE. UPGRADE CONDUIT & CONDUCTORS AS REQ'D.

(E) T-MOBILE 200A METER

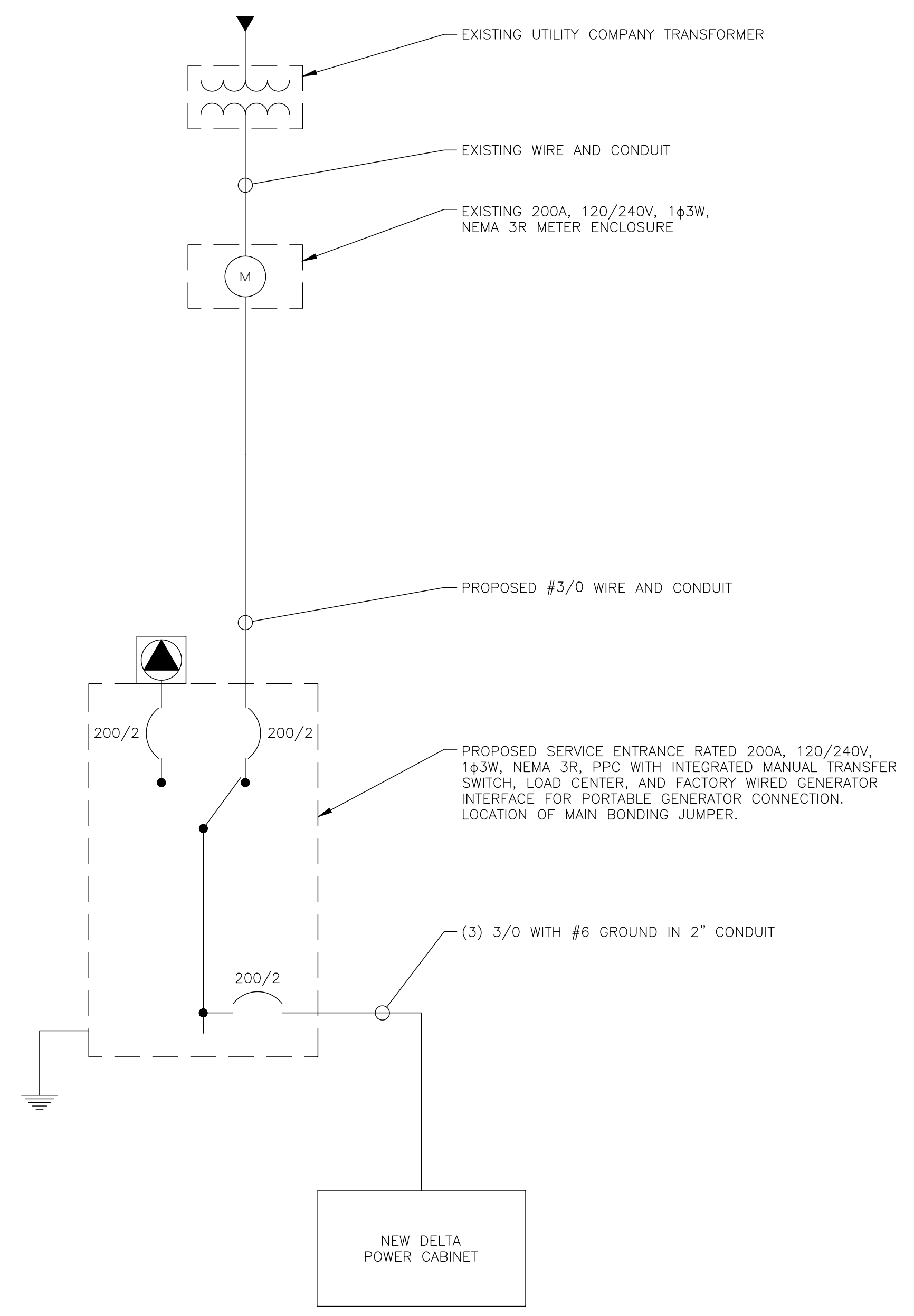
(E) UTILITY FRAME

1 OVERALL SITE PLAN
SCALE: 1"=1'-0" (FULL SIZE)
1/2"=1'-0" (11x17)



NOTES:

1. ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, OR XHHW-2 UNLESS NOTED OTHERWISE.
2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ALL GROUNDING AND BONDING PER THE NEC.



2 ONE LINE DIAGRAM
SCALE: NOT TO SCALE

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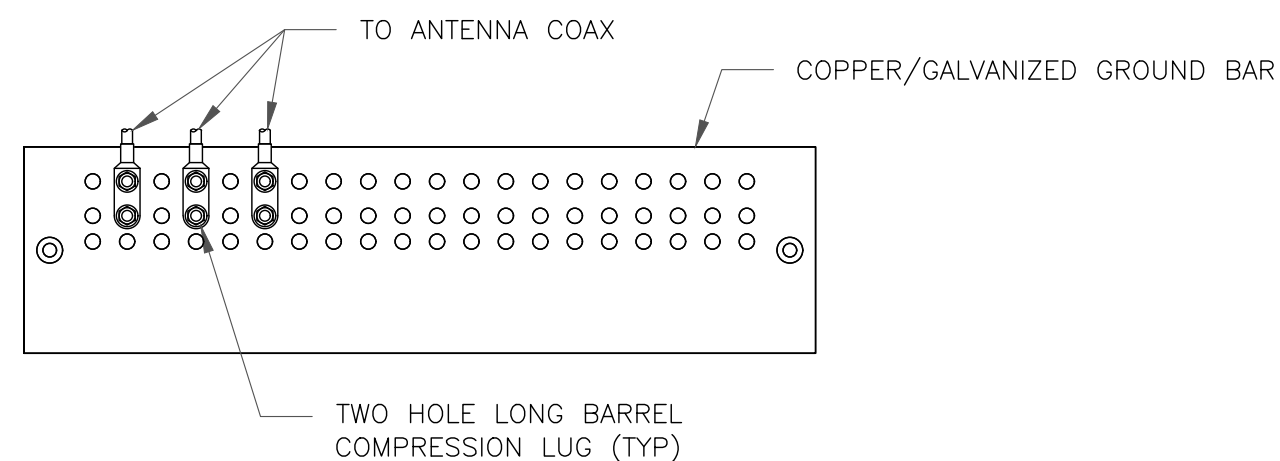
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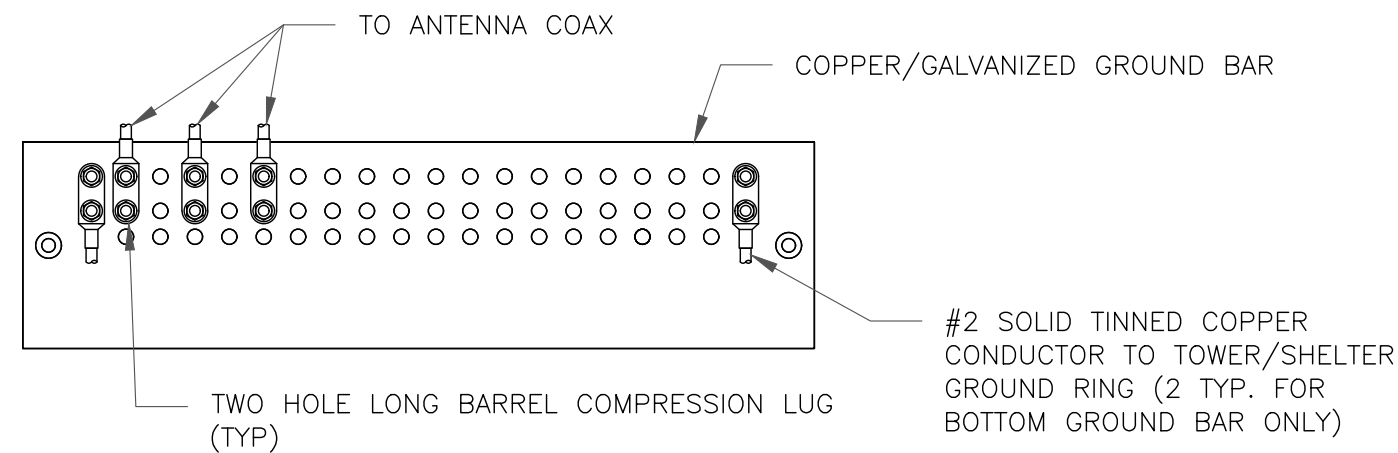
SHEET NUMBER: **E-1** REVISION: **1**



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.

1 ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE

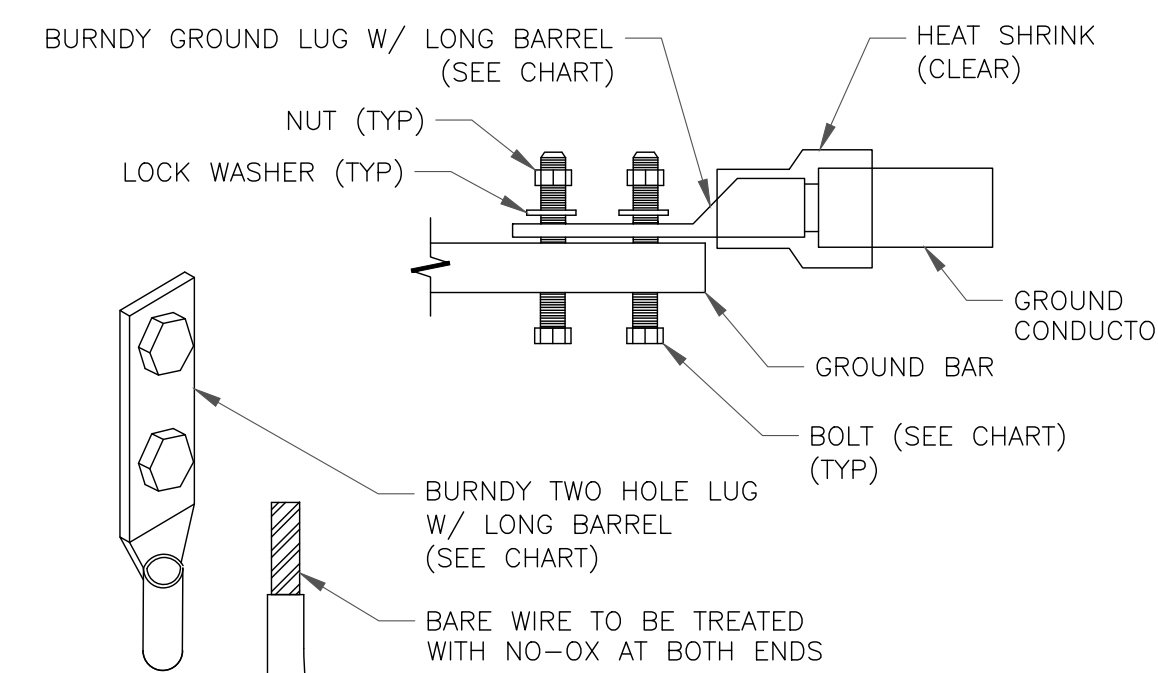


NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

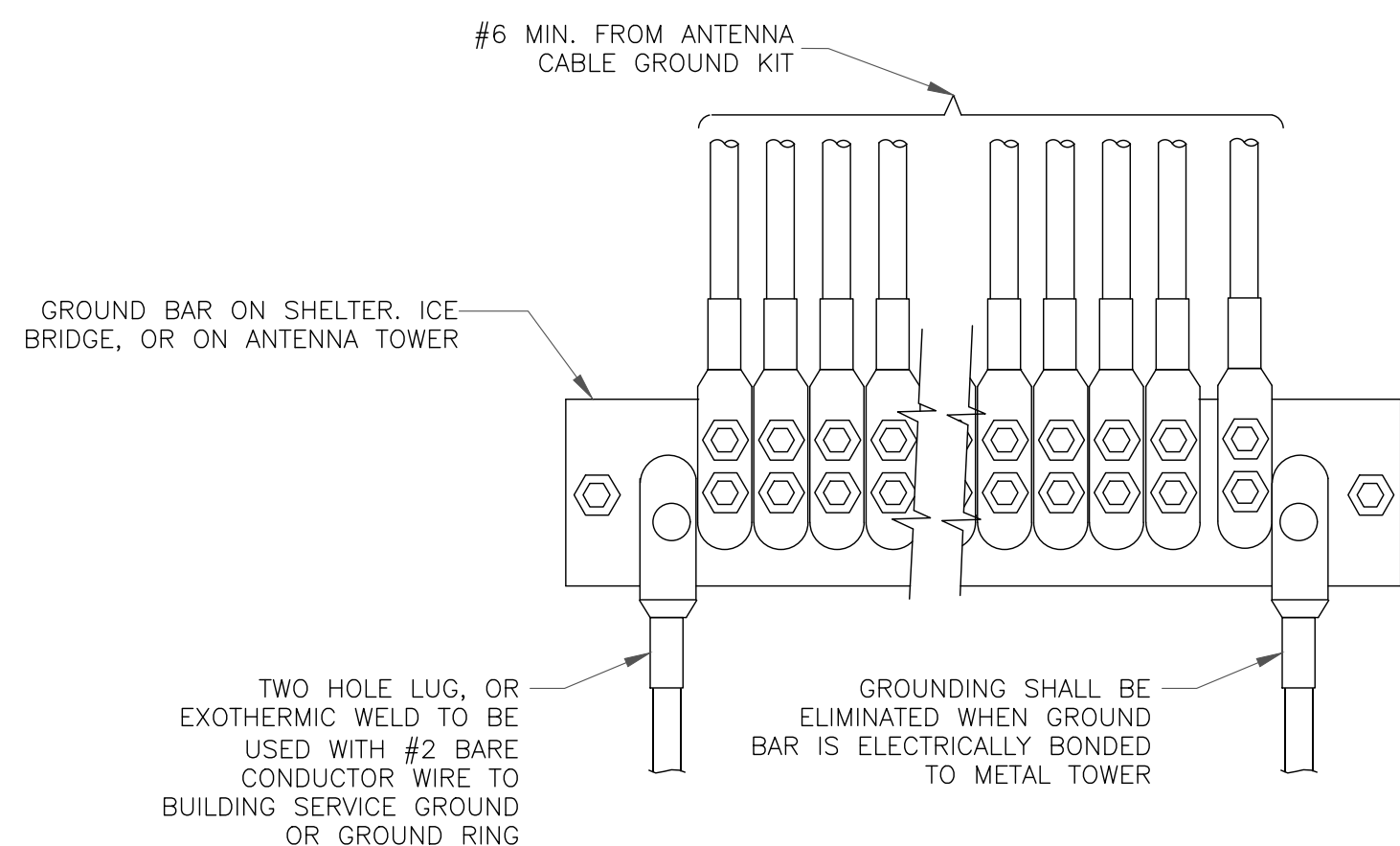
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



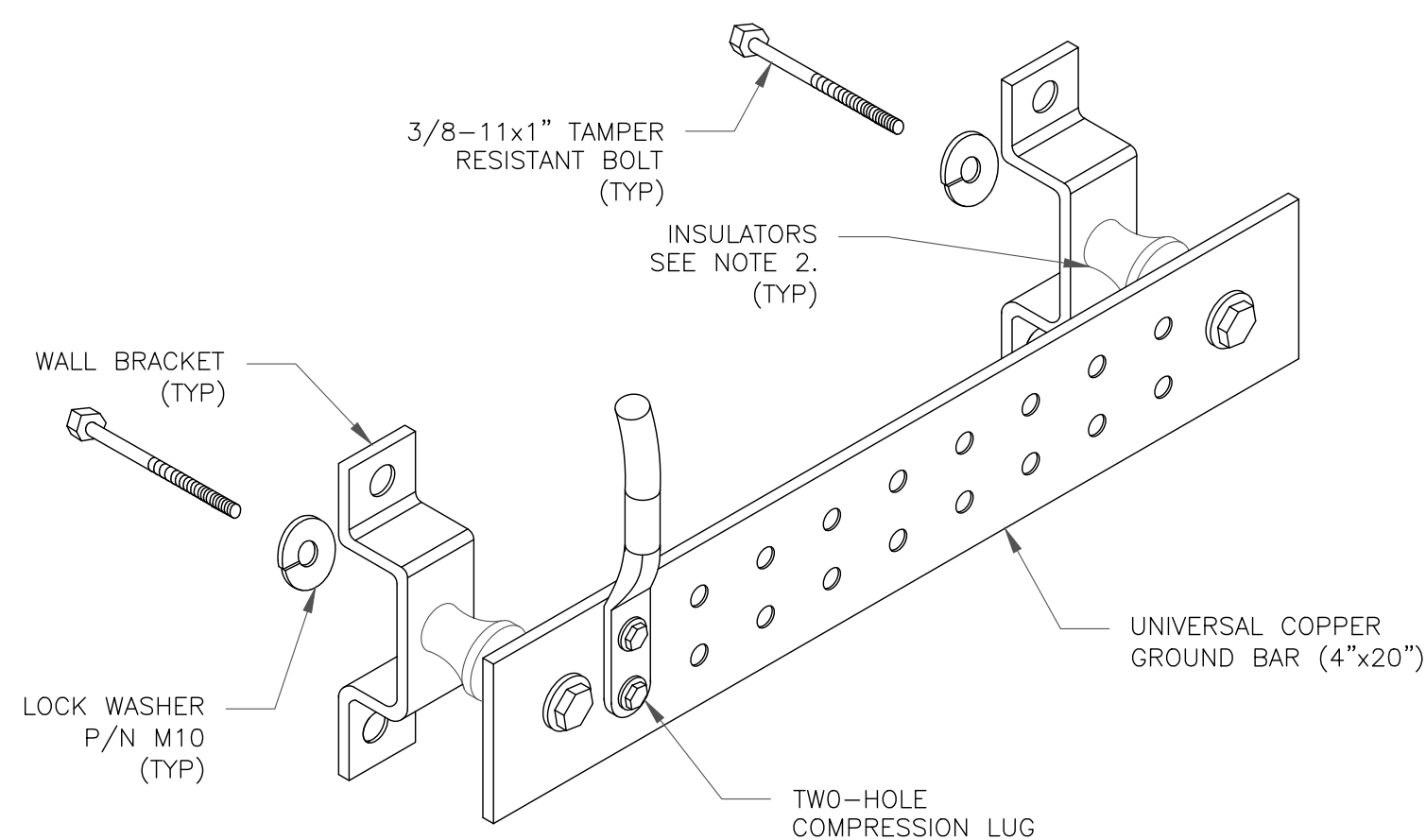
NOTE:

ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



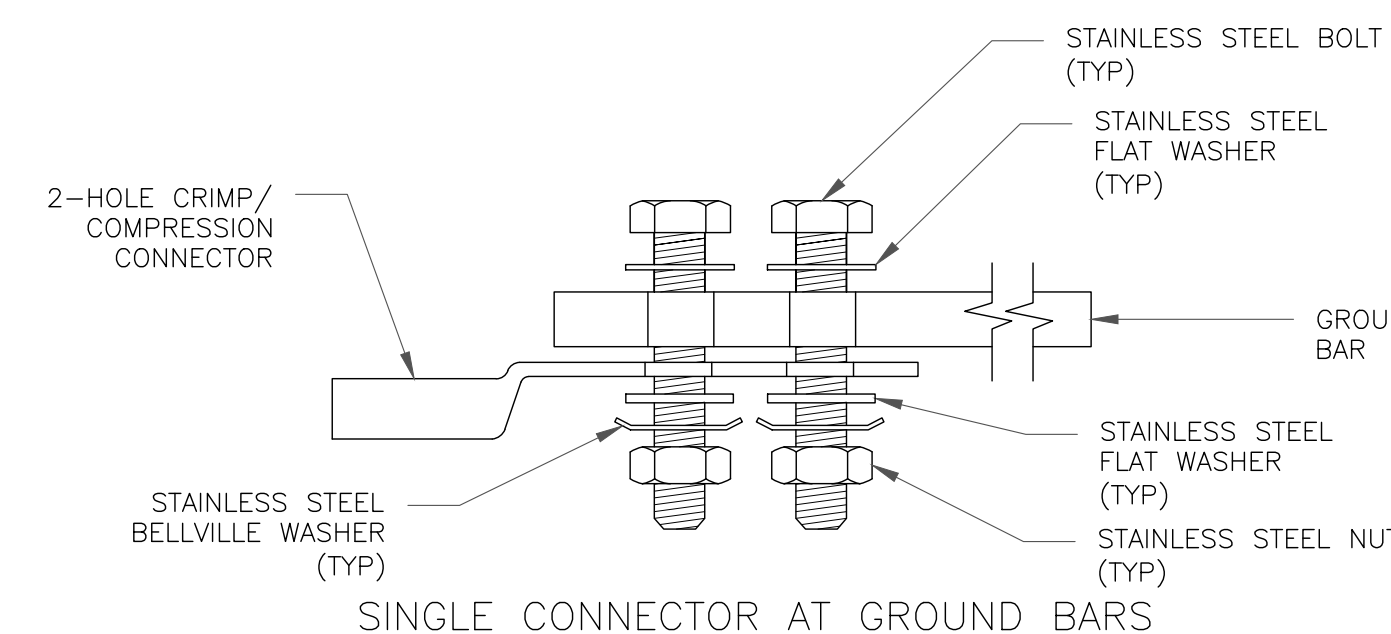
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



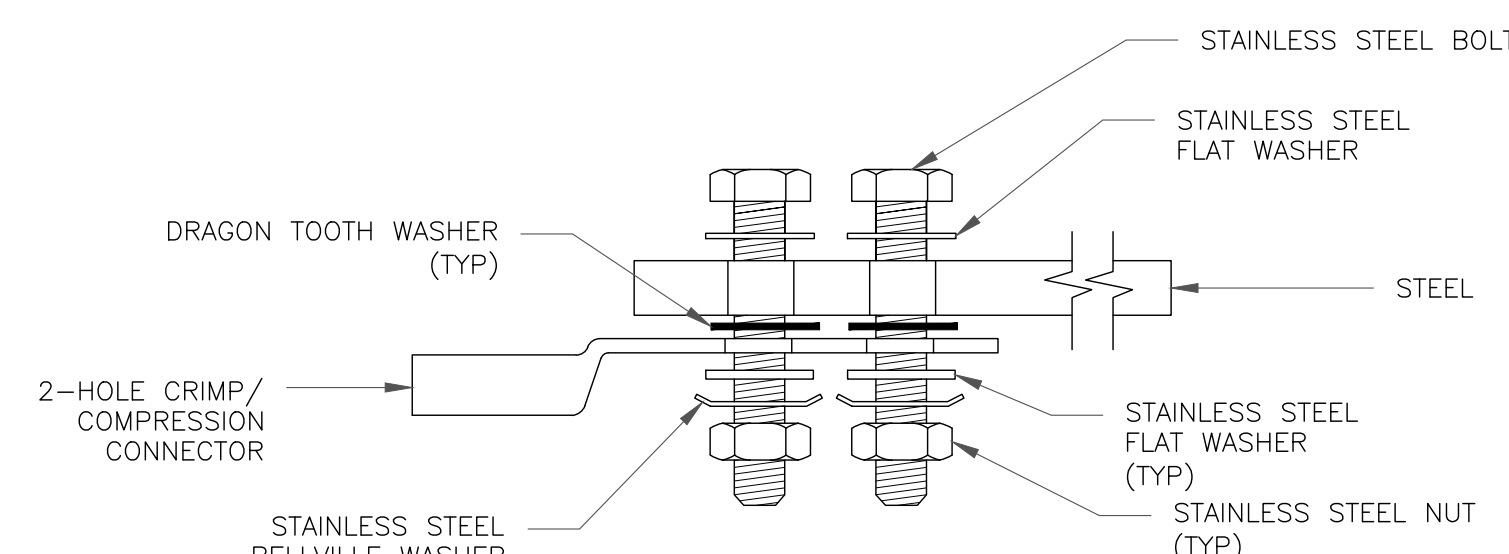
NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

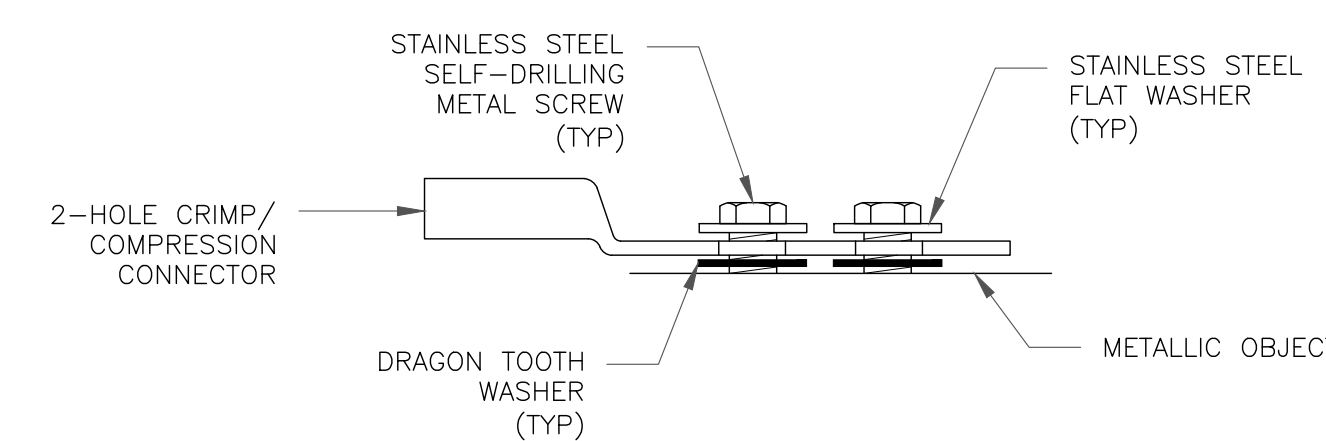
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

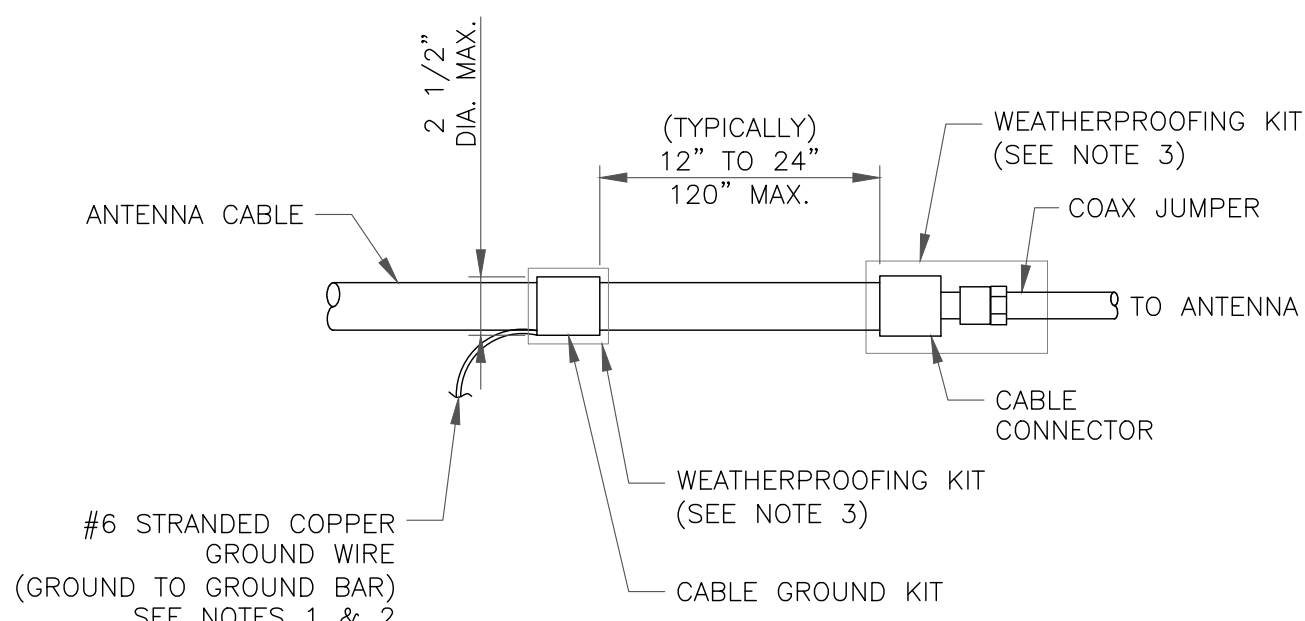


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

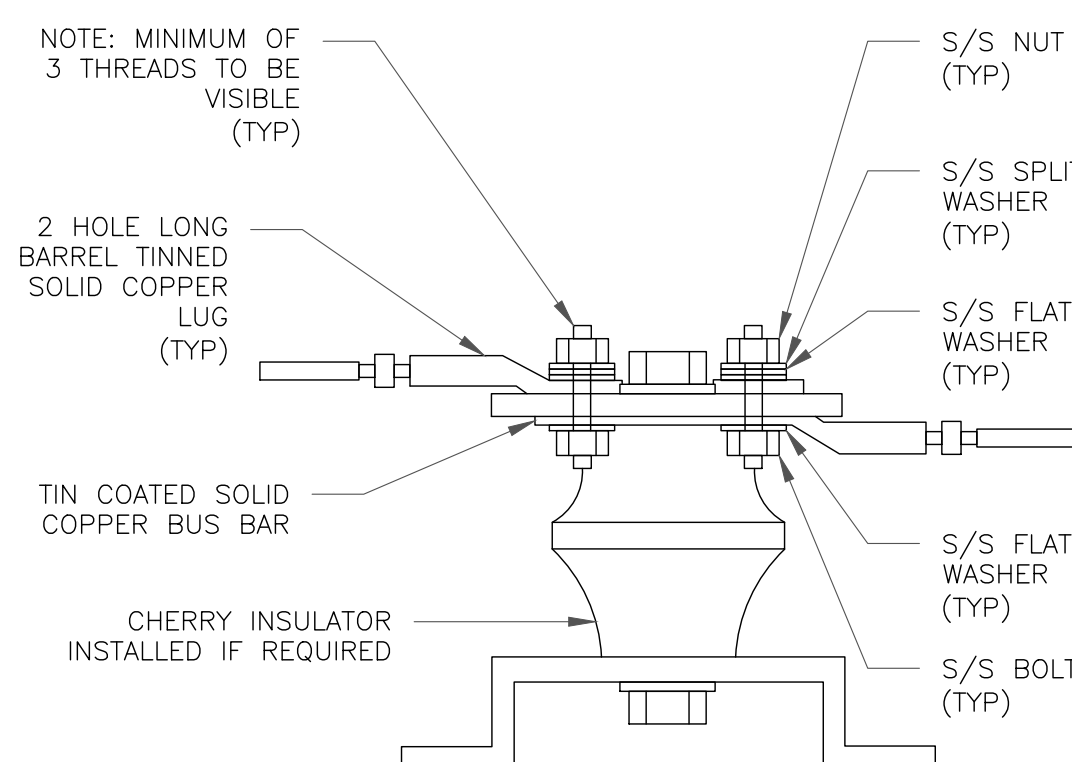
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

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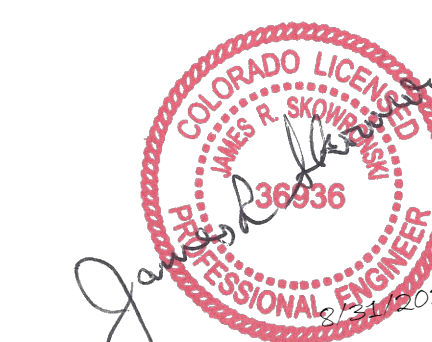
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EXISTING 60'-2" MONOPOLE

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SHEET NUMBER:

G-1

REVISION:

1

Configuration 56790EZ_SR_T

* For 5G and LTE Airscale BB dimensioning refer to Fiber Port matrices.
(Alpha, Beta & Gamma)

