

**T-MOBILE SITE NUMBER:
DN01050C**

BU #: 824664

I-25_PROPERTIES

**20017 BEACON LITE ROAD
MONUMENT, CO 80521**

EXISTING 65'-0" MONOPINE

REV	DATE	DESCRIPTION	DESIGN
0	06/22/20	CONSTRUCTION	DN



ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE CODES. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

2. ALL WIRING SHALL BE SECURED TO THE WALLS OR CEILING. CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CHANGES TO THE WORK.

3. ALL CIRCUITS SHALL BE SERVICED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

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16. ALL CIRCUITS SHALL BE SERVICED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

17. ALL CIRCUITS SHALL BE SERVICED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

18. ALL CIRCUITS SHALL BE SERVICED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

ISSUED FOR:

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GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

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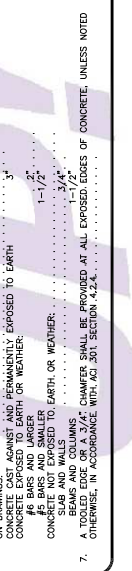
9. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 324, ASTM A194, ASTM A108 AND ALL APPLICABLE LOCAL ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 324, ASTM A194, ASTM A108 AND ALL APPLICABLE LOCAL ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

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CROWN CASTLE USA, INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED-- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA, INC. WRITTEN NOTICE TO PROCEED. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL NECESSARY AREAS AND SERVICES.

2. WORK AREA-- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL NECESSARY AREAS AND SERVICES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL NECESSARY AREAS AND SERVICES.

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GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE BY TWO OR MORE COPPER BONDED CONDUCTORS IN ACCORDANCE WITH THE NEC.

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CONDUCTOR COLOR CODE

SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
	A PHASE	RED
	B PHASE	BLUE
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
	C PHASE	YELLOW
	B PHASE	ORANGE OR PURPLE
	NEUTRAL	GREY
	GROUND	GREEN
277/480V, 3Ø	PHASE (1)	RED**
	PHASE (2)	BLACK**
	PHASE (3)	BLACK**
	GROUND	GREEN**

APMA UNIFORM COLOR CODE:

PROPOSED EXCAVATION	TEMPORARY SURVEY MARKINGS	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES	GAS, OIL, STEAM, PETROLEUM, OR FLAMMABLE LIQUID	COMMUNICATION, ALARM, OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS	POTABLE WATER	RECLAIMED WATER, IRRIGATION, AND SULLY LINES	SEWERS AND DRAIN LINES
WHITE	PINK	RED	YELLOW	ORANGE	BLUE	PURPLE	GREEN

ABBREVIATIONS:

ANT ANTENNA

INT INTERFACE

FAC FASTENING

GEN GENERATOR

GRS GROUNDING ROD SYSTEM

GSM GLOBAL SYSTEM FOR MOBILE

LSG LONG TERM EVOLUTION

MW MICROWAVE

MCW MICROWAVE

NEC NATIONAL ELECTRIC CODE

(P) PROPOSED

PLAT PLATE

QTY QUANTITY

REF REFERENCE

RECT RECTANGULAR

RET REMOTE ELECTRIC TLT

RET RETRIEVED

RCS REMOTE RADIO HEAD

RHH REMOTE RADIO HEAD

RMT REMOTE MOUNTED AMPLIFIER

TMA TOWER MOUNTED AMPLIFIER

UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM

W.P. WORK POINT

SITE PLAN DISCLAIMER:
PROPERTY LINES AND STRUCTURES HAVE BEEN COMPLETED BY THE PROPERTY OWNER. CROWN CASTLE USA, INC. HAS NOT COMPLETED A SITE SURVEY AND THEREFORE CANNOT GUARANTEE THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET.

T-Mobile
2323 DELGANY STREET
DENVER, CO 80216

CROWN CASTLE
2055 S. STEARMAN DRIVE
CHANDLER, AZ 85286

T-MOBILE SITE NUMBER:
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BU #: 824664
I-25_PROPERTIES
20017 BEACON LITE ROAD
MONUMENT, CO 80521
EXISTING 65'-0" MONOPINE

ISSUED FOR:

REV#	DATE	DWNN	DESCRIPTION	DES-QT
0	06/22/20	TJ	CONSTRUCTION	DG



THESE PLANS WERE PREPARED FOR MY OWN PERSONAL USE ONLY. I AM NOT PROVIDING THESE PLANS TO ANY OTHER PARTY. I AM NOT PROVIDING THESE PLANS TO ANY OTHER PARTY. I AM NOT PROVIDING THESE PLANS TO ANY OTHER PARTY.

SHEET NUMBER: C-1.1
REVISION: 0



1 OVERALL SITE PLAN

SCALE: 1"=30'-0" (FULL SIZE)
1"=60'-0" (TYP)

T-Mobile

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DENVER, CO 80216

CROWN CASTLE

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T-MOBILE SITE NUMBER:
DN01050C

BU #: **824664**

I-25_PROPERTIES

20017 BEACON LITE ROAD
MONUMENT, CO 80321

EXISTING 65'-0" MONOPINE

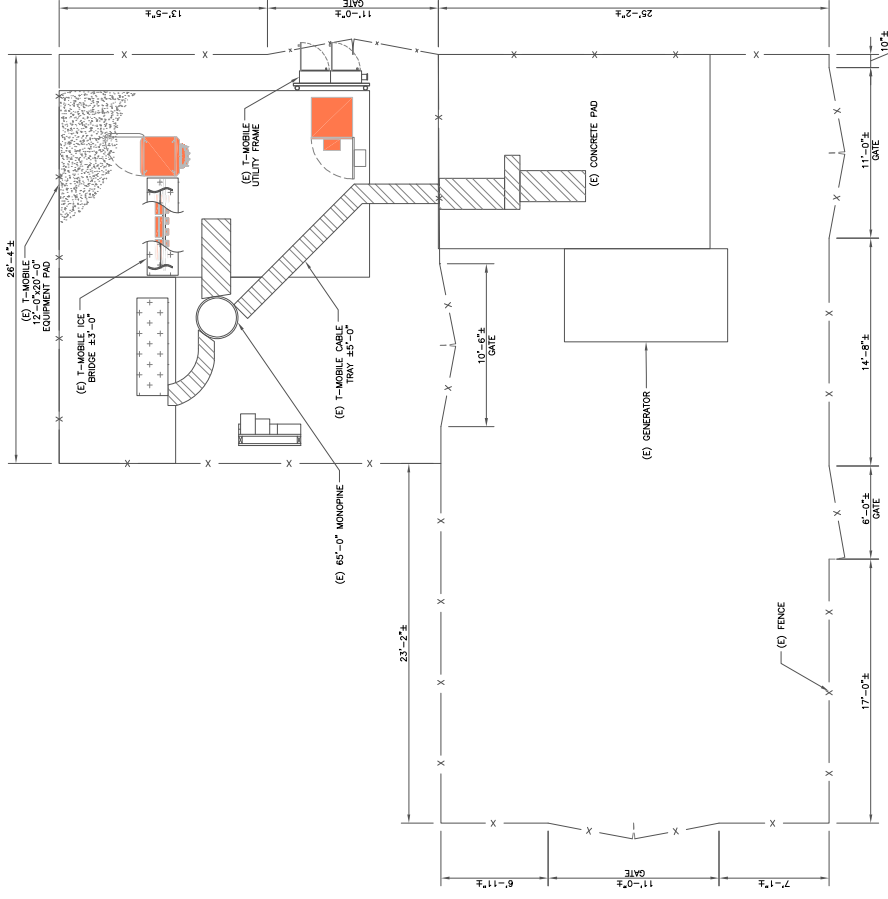
ISSUED FOR:

REV#	DATE	BY	DESCRIPTION	DWG. NO.
0	06/22/20	TJ	CONSTRUCTION	DG



THIS SHEET AND ALL INFORMATION HEREON ARE THE PROPERTY OF CROWN CASTLE.
UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER,
NO OTHER PERSON SHALL BE PERMITTED TO REPRODUCE THIS SHEET OR ITS CONTENTS.

SHEET NUMBER: **C-1.2** REVISION: **0**



1 SITE PLAN
SCALE: 3/16"=1'-0" (ALL SHEET)
3/32"=1'-0" (1:12)

EQUIPMENT LEGEND:

	EXISTING
	TO BE RELOCATED/REMOVED
	NEW

INSTALLER NOTE:
 AMAS ARE TO BE INSTALLED INTERNALLY IN THE
 CABINET. THE LOCATION OF THE AMAS AND
 ON SITE. AMAS ARE TO BE SUBSTITUTED WITH
 AMAS. CONTRACTOR SHALL BE RESPONSIBLE FOR
 T-MOBILE LEASE AREA FOR AMAS MOUNTING AND
 T-MOBILE LEASE AREA FOR AMAS MOUNTING AND
 LOCATIONS MUST BE APPROVED BY CONSTRUCTION
 MANAGER PRIOR TO INSTALLATION.

T-Mobile
 2323 DELGANY STREET
 DENVER, CO 80216

CROWN CASTLE
 2055 S. STEARMAN DRIVE
 CHANDLER, AZ 85286

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BU #: 824664
I-25_PROPERTIES
 20017 BEACON LITE ROAD
 MONUMENT, CO 80521
 EXISTING 65'-0" MONOPINE

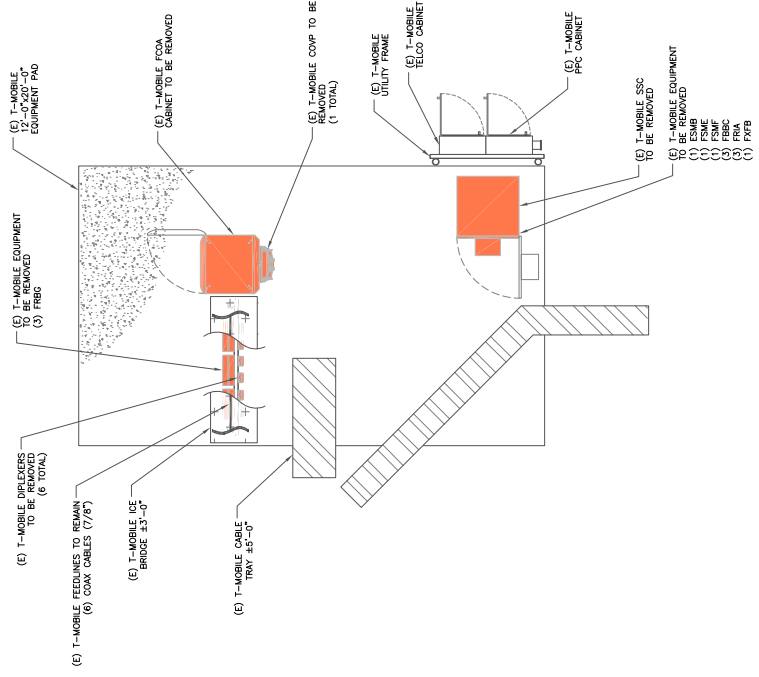
ISSUED FOR:

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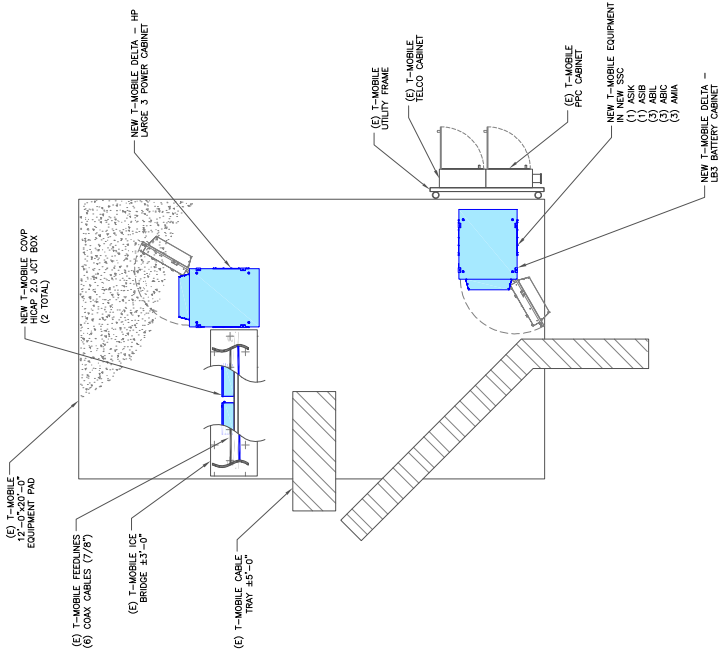


IT IS THE POLICY OF T-MOBILE THAT ANY PERSON,
 UNLESS THEY ARE ACTING UNDER THE DIRECTION
 OF A LICENSED PROFESSIONAL ENGINEER,
 IS PROHIBITED FROM DESIGNING.

SHEET NUMBER: C-1.3
REVISION: 0



1 EXISTING EQUIPMENT PLAN
 1/8"=1'-0" (FULL SIZE)
 1/8"=1'-0" (1:12)



2 FINAL EQUIPMENT PLAN
 1/8"=1'-0" (FULL SIZE)
 1/8"=1'-0" (1:12)





2323 DELGANY STREET
DENVER, CO 80216



2053 S. STEARMAN DRIVE
CHANDLER, AZ 85286

T-MOBILE SITE NUMBER:
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BU #: 824664

I-25_PROPERTIES

20017 BEACON LITE ROAD
MONUMENT, CO 80521

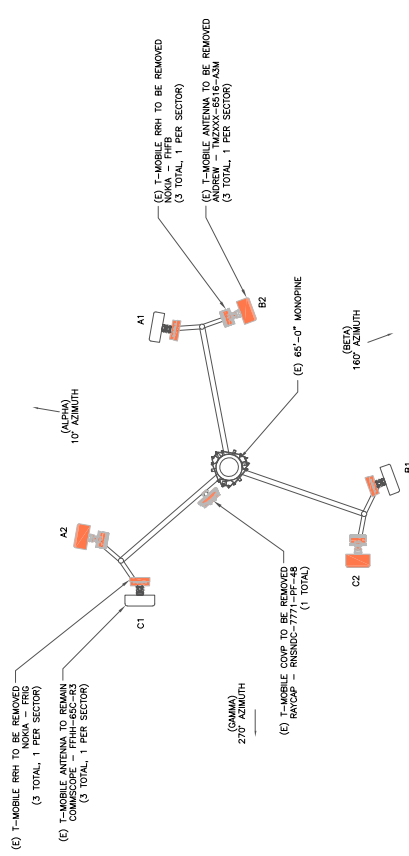
EXISTING 65'-0" MONOPINE

ISSUED FOR:			
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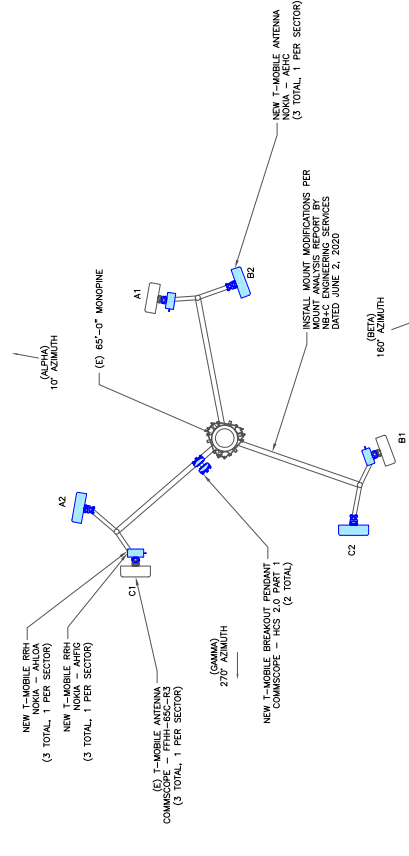


THIS DESIGN AND/OR CONSTRUCTION SHALL BE FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO BE USED FOR THIS PROJECT.

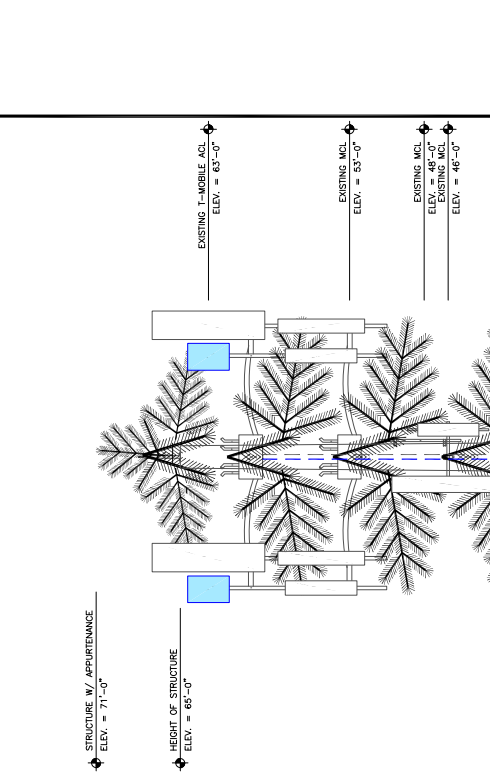
SHEET NUMBER: **C-2** REVISION: **0**



(2) EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



(3) FINAL ANTENNA PLAN
SCALE: NOT TO SCALE



EQUIPMENT LEGEND:

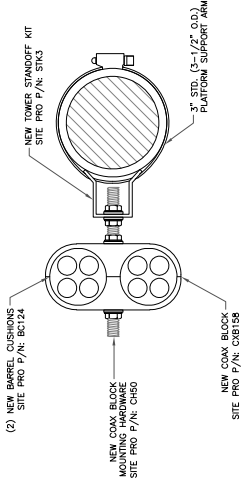
- EXISTING
- TO BE RELOCATED/REMOVED
- NEW

INSTALLER NOTE:
TOWER DOES NOT HAVE CLIMBING
FACILITIES MANUFLT REQUIRED FOR
ELEVATED WORK

LOCK UP - CROWN CASTLE USA, INC.
SAFETY CLIMB REQUIREMENT:
THE INTEGRITY OF THE SAFETY CLIMB AND ALL
COMPONENTS OF THE CLIMBING FACILITY SHALL BE
INSPECTED AND MAINTAINED THROUGHOUT
INSTALLATION, AND INSPECTION, TOWER MODIFICATION,
REPAIRS, AND/OR EQUIPMENT
MOUNT REINFORCEMENTS. THE INTEGRITY OF THE SAFETY
CLIMBING FACILITY SHALL BE MAINTAINED THROUGHOUT
THE LIFE OF THE FACILITY. THE SAFETY CLIMBING
FACILITY ON THIS STRUCTURE, THIS SHALL INCLUDE,
BUT NOT BE LIMITED TO: FINISHING OF THE WIRE
SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY
TO THE WIRE SUPPORTS, DIRECT CONTACT OR CLOSE
PROXIMITY TO THE ANCHORAGE POINTS IN ANY
WAY, OR TO WREDE/FLOOR ITS INTENDED USE. ANY
CONDITIONS MUST BE FLAGGED OUT AND REPORTED
TO YOUR CROWN CASTLE USA, INC. FOR
MAINTENANCE AND CONTRACTOR NOTICE TICKET.

(1) FINAL ELEVATION
SCALE: NOT TO SCALE

INSTALLER NOTE:
JUMPERS TO BE TORQUED TO 221.27 IN/LBS.



1 /SCALE: NOT TO SCALE

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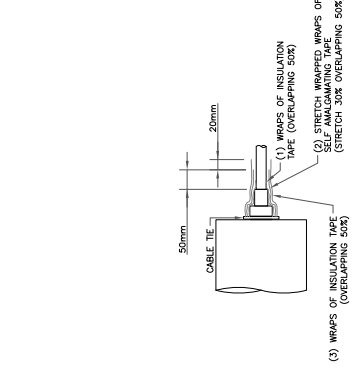
ISSUED FOR:

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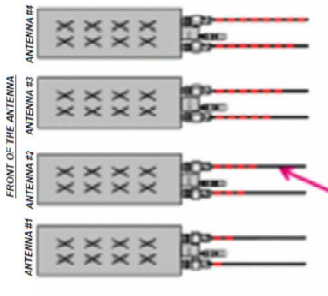


THIS PLAN IS VOID WITHOUT THE SIGNATURE OF THE ENGINEER.
UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

SHEET NUMBER: **C-3**
REVISION: **0**



2 /SCALE: NOT TO SCALE



Coax Color Coding

- Antennas will be labeled (back of antenna view) Right to Left 1 - 4 sectors
- Coax/Jumper lines will be identified by sector color and by number of strands around the coax/jumper

SECTOR A	RED
SECTOR B	GREEN
SECTOR C	BLUE
SECTOR D	YELLOW
SECTOR E	WHITE
SECTOR F	PURPLE
LIQUID	BROWN - SECTOR COLOR BANDS (1 & 2)
FIBERID	GRAY
UNUSED COAX	PINK
MICROWAVE	ORANGE
DWELL-AS - GPS DOWNLINK CABLE	ID LABEL MARKER

COLOR CODING NOTES:

- TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF EVERY CABLE LONGER THAN 20 FEET
- METALLIC TAGS SHALL BE ATTACHED AT THE CENTER OF THE CABLE
- CABLE SHALL BE FASTENED WITH STAINLESS STEEL ZIP TIES
- APPROPRIATE FOR CABLE DIAMETER
- STANDARDIZED METALLIC TAGS WILL BE ASSEMBLED ACCORDING TO THE CONFIGURATIONS EMPLOYED TO ACCOMMODATE ALL CONFIGURATIONS



ANTENNA AND COAXIAL CABLE SCHEDULE

- ALL ANTENNAS SHALL BE FINISHED WITH THE FOLLOWING INFORMATION:
CONTRACTORS SHALL COORDINATE REQUIRED MECHANICAL DOWNLIFT FOR ANTENNA DOWNLIFT SHALL BE SET AND VERIFIED BY A SMART LEVEL. COAX COORDINATE AND JUMPER CABLES WITH 1/2\"/>

3 /SCALE: NOT TO SCALE

4 /SCALE: NOT TO SCALE



2323 DELGANY STREET
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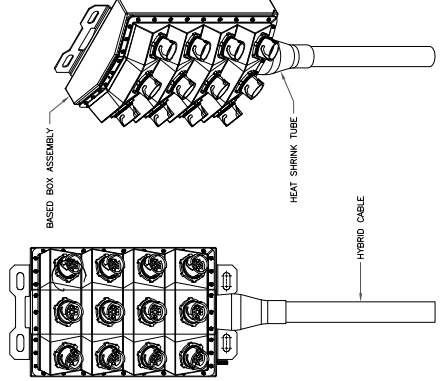
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6/22/2020 | T. J. WILLIAMS, P.E. | EIT

IT IS THE RESPONSIBILITY OF THE USER OF ANY DRAWING, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO VERIFY THE DIMENSIONS.

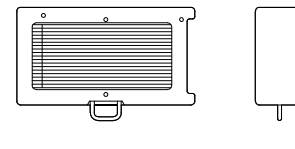
SHEET NUMBER: **C-4** REVISION: **0**



BASED BOX ASSEMBLY
HEAT SHRINK TUBE
HYBRID CABLE

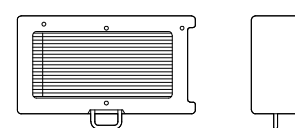
COMMSCOPE - HCS 2.0 PART 1
WEIGHT (WITHOUT MOUNTING HARDWARE): 23.5 LBS.
SIZE (HMMO): 14.0x16.0x8.0 IN.

3 COMMSCOPE - HCS 2.0 PART 1
SCALE: NOT TO SCALE



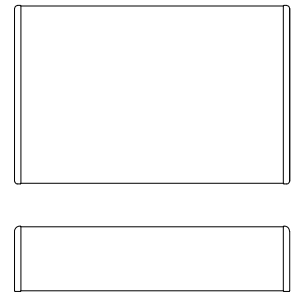
NOKIA - AHLOA
WEIGHT (WITHOUT MOUNTING HARDWARE): 83.8 LBS.
SIZE (HMMO): 22.1x12.1x7.4 IN.
CONNECTOR TYPE: 4.3-1 FEMALE

5 NOKIA - AHLOA
SCALE: NOT TO SCALE



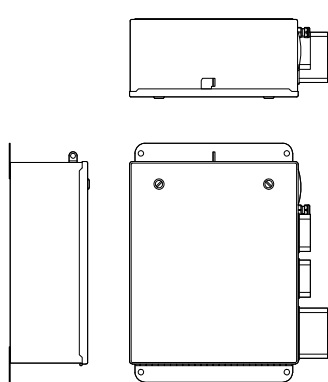
NOKIA - AHFG
WEIGHT (WITHOUT MOUNTING HARDWARE): 79.4 LBS.
SIZE (HMMO): 27.6x13.4x5.6 IN.
CONNECTOR TYPE: 4.3-1 FEMALE

2 NOKIA - AHFG
SCALE: NOT TO SCALE



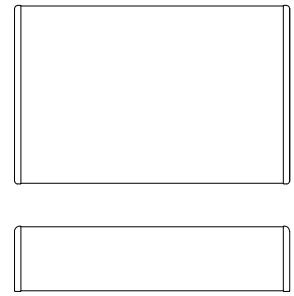
NOKIA - AEHC
WEIGHT (WITHOUT MOUNTING HARDWARE): 99.2 LBS.
SIZE (HMMO): 35.4x22.8x8.26 IN.

1 NOKIA - AEHC
SCALE: NOT TO SCALE



HICAP 2.0 JCT BOX
WEIGHT (WITHOUT MOUNTING HARDWARE): 23.5 LBS.
SIZE (HMMO): 14.0x16.0x8.0 IN.

4 HICAP 2.0 JCT BOX
SCALE: NOT TO SCALE



NOKIA - AEHC
WEIGHT (WITHOUT MOUNTING HARDWARE): 99.2 LBS.
SIZE (HMMO): 35.4x22.8x8.26 IN.

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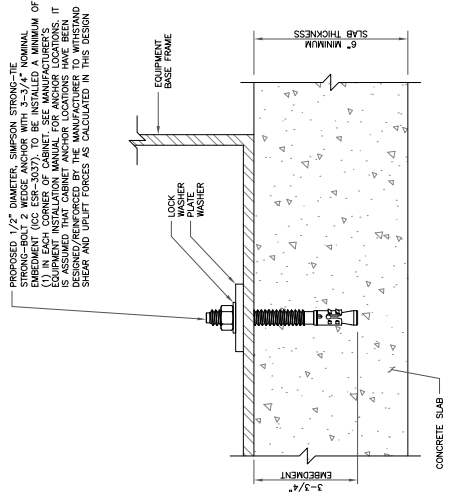
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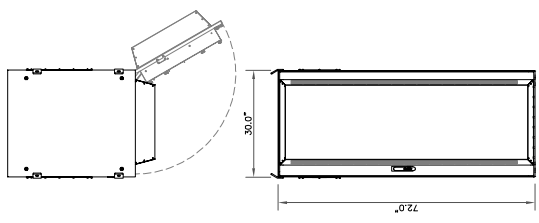


THIS SHEET, WHEN USED IN CONJUNCTION WITH ANY OTHER SHEETS,
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OF A LICENSED PROFESSIONAL ENGINEER,
IS UNLAWFUL FOR ANY PURPOSE.

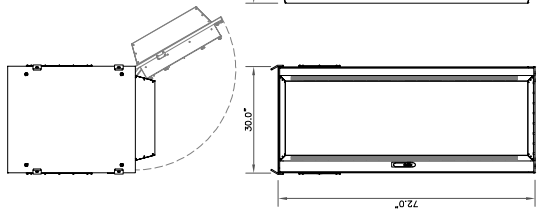
SHEET NUMBER: **C-5** REVISION: **0**



1 CABINET ANCHOR DETAIL
SCALE: NOT TO SCALE



2 DELTA - HP LARGE 3 POWER CABINET
SCALE: NOT TO SCALE



3 DELTA - LBS BATTERY CABINET
SCALE: NOT TO SCALE

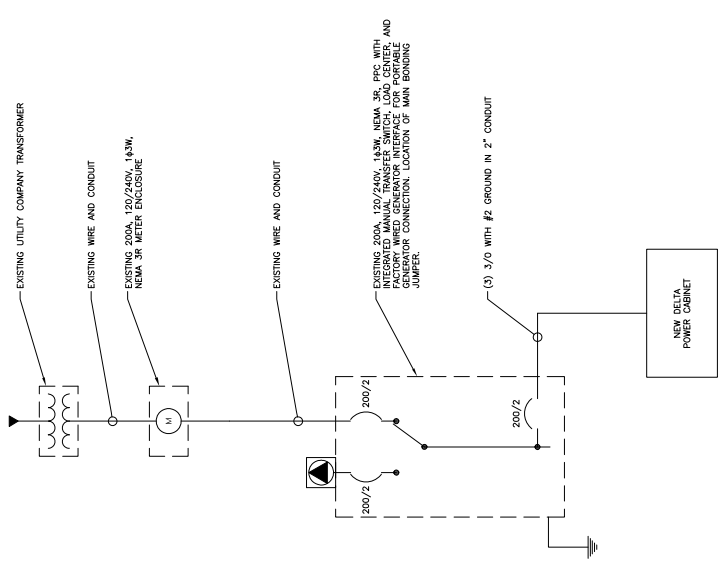
NOTES:

1. ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THRU-TURN, THRU-WALL, 3/16" OR 1/4" W/2" UNLESS NOTED OTHERWISE.
2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ALL GROUNDING AND BONDING PER THE NEC.

T-MOBILE PANEL SCHEDULE

MAIN 200 AMP MAIN BREAKER		ENCLOSURE NEMA 3R		LOAD (VA)		CIR (A)		CIR (A)		CIR (A)		CIR (A)		CIR (A)		CIR (A)		CIR (A)		CIR (A)		CIR (A)	
DESCRIPTION	LOAD (VA)	C or NC	CB	NC	A-PHASE	B-PHASE	C-PHASE	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SPARE	0	NC	40	1	0	0	0	2	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SPARE*	0	NC	30	5	4800	4800	4800	8	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
GEVIRCEPFPACLE	180	NC	20	9	4890	4890	4890	10	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
BLANK				11				12															
BASE LOAD (VA) =				9780		9000																	
25% OF CONTINUOUS LOAD (VA) =				2400		2400																	
TOTAL LOAD (VA) =				17180		12000																	
TOTAL LOAD (A) =				102		100																	

* REMOVE WIRE TO EXISTING BREAKER AND MARK AS SPARE
 ** NEW LOAD DISCONNECT EXISTING SRC CABINET AND USE EXISTING 200A 2-POLE BREAKER TO FEED NEW CABINET.
 1. CUSTOMER HAS NOT PROVIDED LOADS FOR EQUIPMENT CABINETS THEREFORE THE LOADS SHOWN ARE ESTIMATED VALUES.
 2. ALL LOADS ARE EXISTING UNLESS NOTED OTHERWISE.
 3. ONLY EQUIPMENT MANUFACTURED BREAKERS ARE TO BE USED. NO SUBSTITUTIONS IS ALLOWED UNLESS APPROVED BY THE ENGINEER OF RECORD.



1 ONE LINE DIAGRAM
 2 SCALE: NOT TO SCALE



T-MOBILE SITE NUMBER:
DN01050C
 BU #: 824664
I-25_PROPERTIES
 20017 BEACON LITE ROAD
 MONUMENT, CO 80321
 EXISTING 65'-0" MONOPINE

ISSUED FOR:

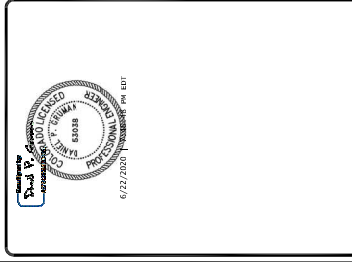
REV	DATE	DRWN	DESCRIPTION	DES-QT
0	06/22/20	TJ	CONSTRUCTION	DN



THIS PLAN, SPECIFICATION, OR ANY PART THEREOF, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS NOT TO BE USED FOR CONSTRUCTION.

SHEET NUMBER: **E-1**
 REVISION: **0**

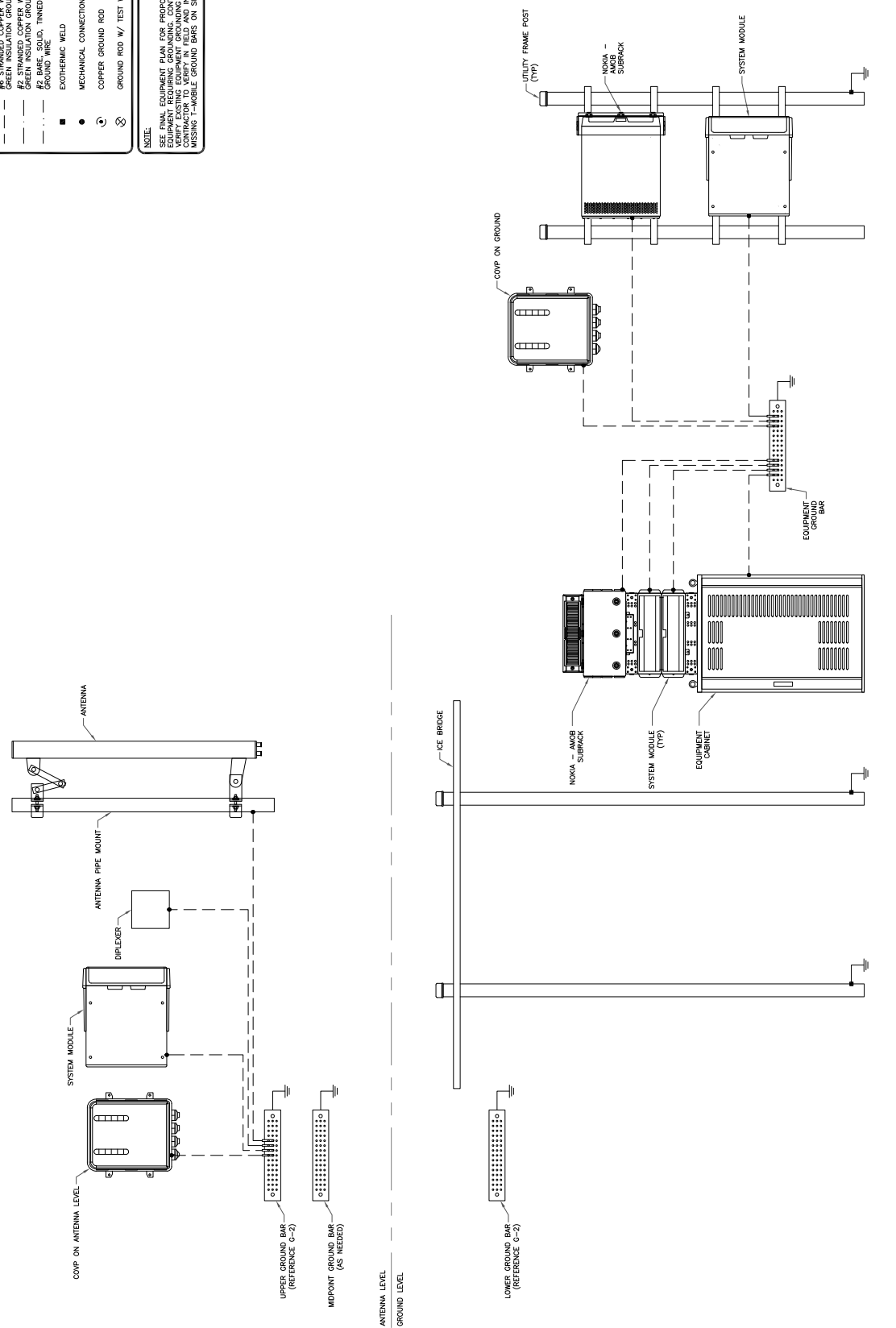
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0	06/22/20	TJ	CONSTRUCTION	DG



THIS PLAN AND SPECIFICATIONS ARE FOR THE USE OF THE ENGINEER AND CONTRACTOR ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS IN THE FIELD AND INSTALLING ALL MISSING T-MOBILE GROUND BARS ON SITE.

SHEET NUMBER: **G-1** REVISION: **0**

- GROUNDING PLAN LEGEND:**
- #12 COPPER WITH GREEN INSULATION GROUND WIRE
 - #2 STRANDED COPPER WITH GREEN INSULATION GROUND WIRE
 - #12 COPPER WITH GREEN INSULATION GROUND WIRE
 - #2 STRANDED COPPER WITH GREEN INSULATION GROUND WIRE
 - MECHANICAL CONNECTION
 - EXOTHERMIC WELD
 - COPPER GROUND ROD
 - COPPER ROD W/ TEST WELL
- NOTE:**
SEE FINAL EQUIPMENT PLAN FOR PROPOSED EQUIPMENT REQUIRING GROUNDING. CONTRACTOR TO VERIFY ALL CONDITIONS IN THE FIELD AND INSTALL ALL MISSING T-MOBILE GROUND BARS ON SITE.



1 TYPICAL FINAL GROUNDING SCHEMATIC
SCALE: NOT TO SCALE



T-MOBILE SITE NUMBER:
DN01050C

BU #: 824664

I-25_PROPERTIES

20017 BEACON LITE ROAD
MONUMENT, CO 80521

EXISTING 65'-0" MONOPINE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES-QT
0	06/22/20	J	CONSTRUCTION	DN

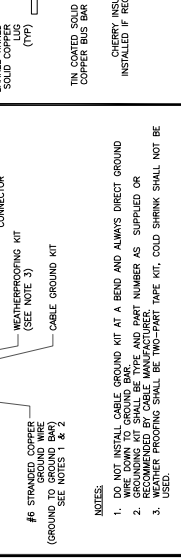
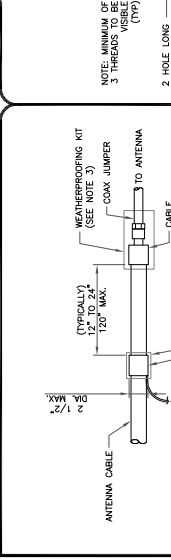
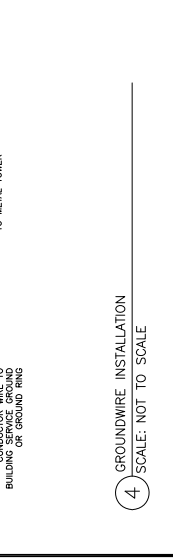
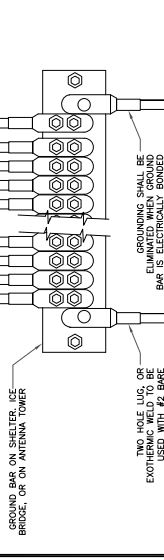
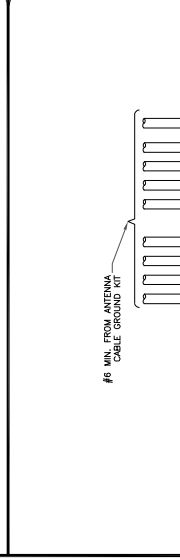
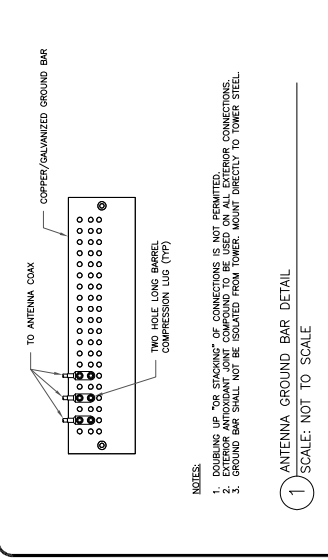
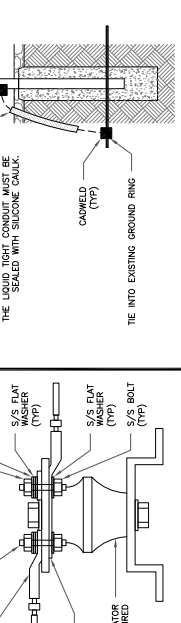
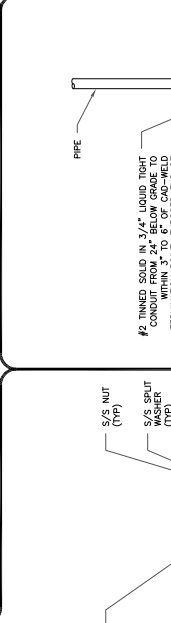
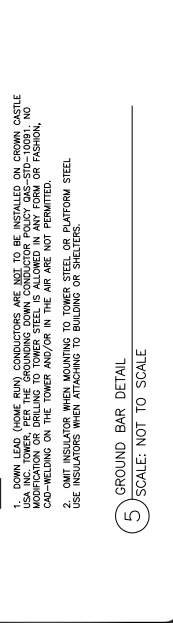
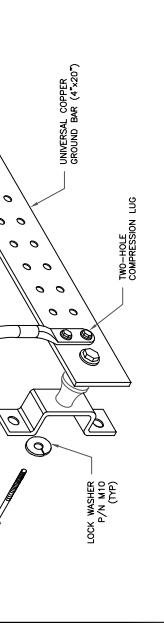
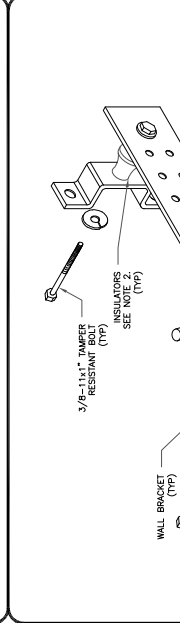
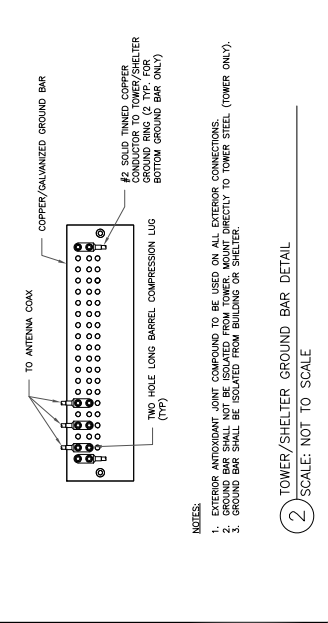
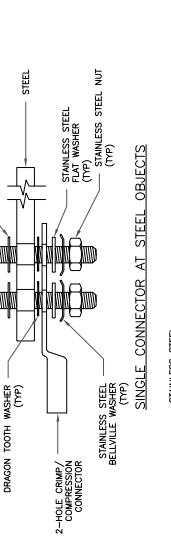
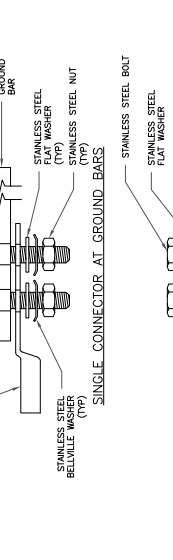
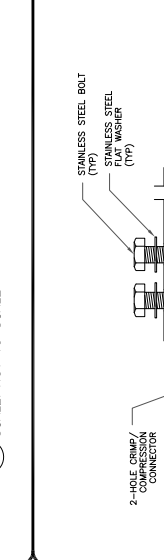
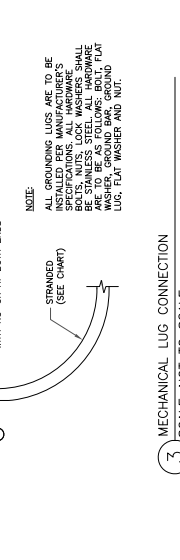


IF A USER REVOKES THE USER ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IT SHALL BE VOID AND INVALID.

SHEET NUMBER: **G-2**

REVISION: **0**

WIRE SIZE	BURINDY LUG	BOLT SIZE
#6 GREEN INSULATED	YAC-27C38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YAC-27C38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YAC-27C38	3/8" - 16 NC SS 2 BOLT
#2/O STRANDED	YAC-27C38	3/8" - 16 NC SS 2 BOLT
#4/O STRANDED	YACB-2N	1/2" - 16 NC SS 2 BOLT



NOTES:

- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- EXTERIOR ANTIOXIDANT COMPOUND SHOULD BE USED ON ALL EXTERIOR CONNECTIONS.
- GROUND BARS SHALL NOT BE SECURED FROM TOWER OR SHELTER DIRECTLY TO TOWER STEEL (TOWER ONLY).
- GROUND BARS SHALL BE SECURED FROM BUILDING OR SHELTER.

NOTES:

- DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE MONOPINE. DOWN LEAD CONDUCTORS SHALL BE INSTALLED ON MONOPINE IN ANY FORM OR FASHION, NO COAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
- OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

NOTES:

- DO NOT USE METAL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

Certificate Of Completion

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Certificate Pages: 2	Initials: 0
AutoNav: Enabled	Envelope Originator:
Envelopeld Stamping: Enabled	Daniel Gruman
Time Zone: (UTC-05:00) Eastern Time (US & Canada)	2000 Corporate Drive
	Canonsburg, PA 15317
	Daniel.Gruman@crowncastle.com
	IP Address: 68.107.177.147

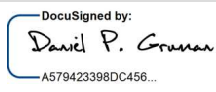
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Signer Events

Daniel P. Gruman
 daniel.gruman@crowncastle.com
 Crown Castle International Corp.
 Security Level: Email, Account Authentication (None)

Signature

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Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

In Person Signer Events

Signature

Timestamp

Editor Delivery Events

Status

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Agent Delivery Events

Status

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Intermediary Delivery Events

Status

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Certified Delivery Events

Status

Timestamp

Carbon Copy Events

Status

Timestamp

Phil Lander
 phil.lander@crowncastle.com
 Crown Castle International Corp.
 Security Level: Email, Account Authentication (None)

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Notary Events

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Envelope Summary Events

Status

Timestamps

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Completed	Security Checked	6/22/2020 7:46:48 PM

Payment Events

Status

Timestamps