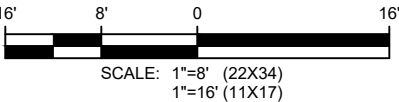
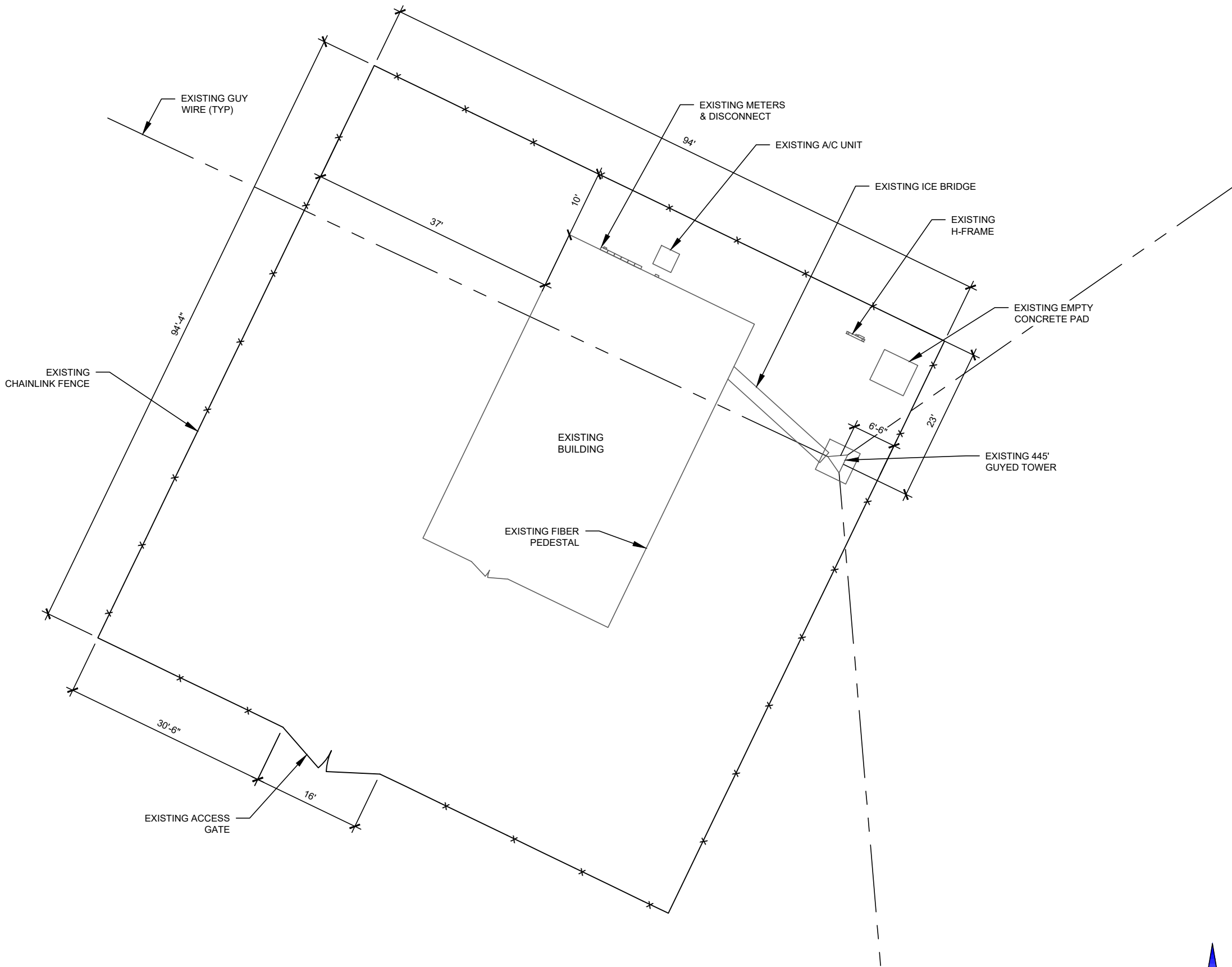


SUBJECT PROPERTY IS LOCATED IN PANEL
#12023C038D, DATED 11/02/2018
AND IS IN THE BASE FLOOD ZONE "X"
AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.



AT&T FA
15743282
SITE NAME
CLAY HOLE CREEK
CROWN CASTLE SITE NUMBER
870209
SITE ADDRESS
4604 SOUTHWEST STATE ROAD 47
LAKE CITY, FL 32055

ISSUED FOR:			
REV	DESCRIPTION	BY	DATE
A	CLIENT REVIEW	DAJ	04/08/25
B	PERMITTING	ZDS	05/27/25

CA# 33693

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OVERALL SITE PLAN

SHEET NUMBER:

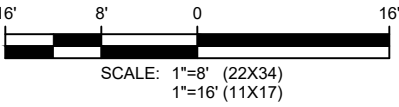
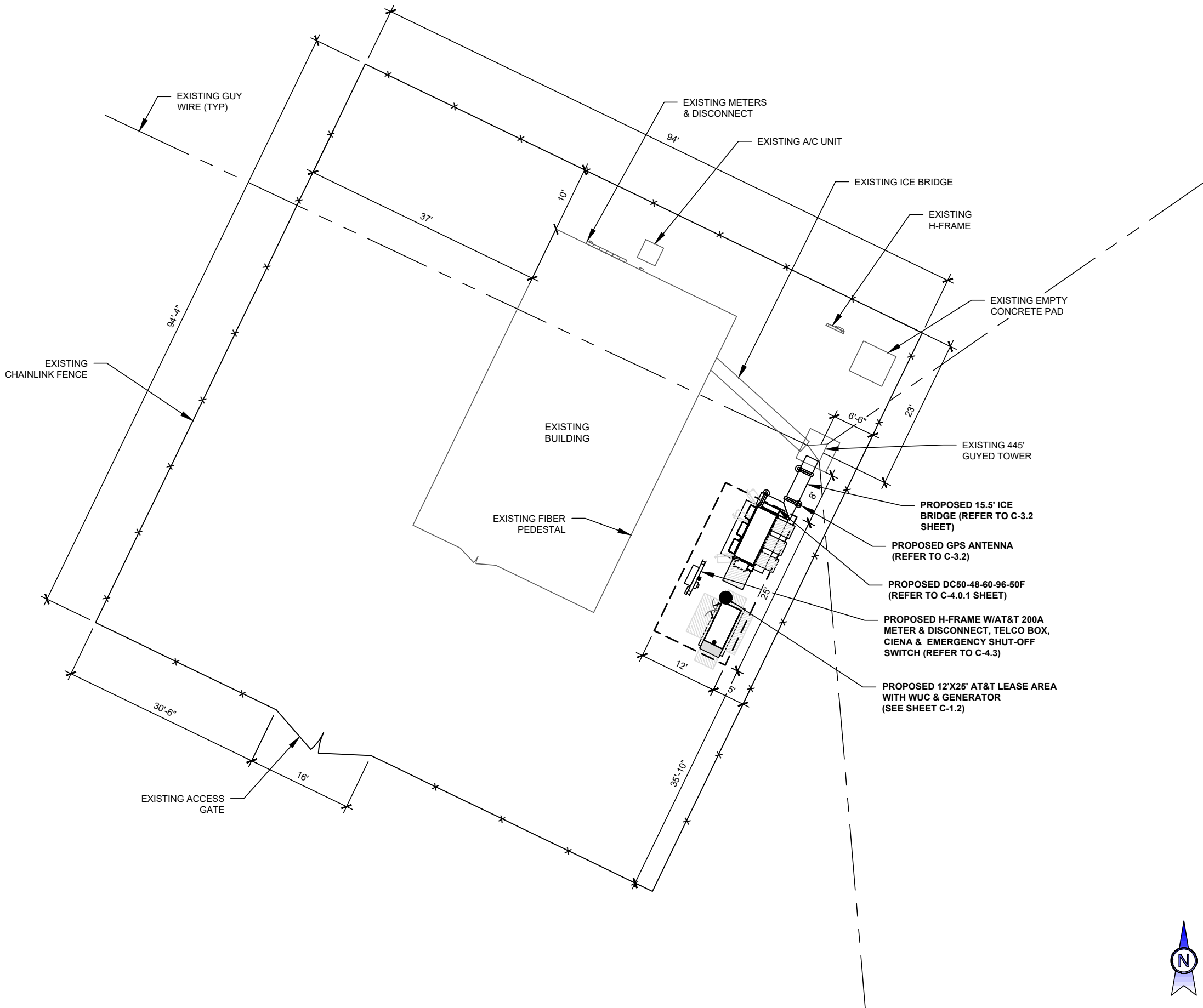
C-1



SMW JOB #24-5408

SUBJECT PROPERTY IS LOCATED IN PANEL
#12023C038D, DATED 11/02/2018
AND IS IN THE BASE FLOOD ZONE "X"
AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.

ALL TRUNKS ARE TO BE INSTALLED ON THE
NORTH FACE OF THE TOWER, PER THE SA



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CA# 33693

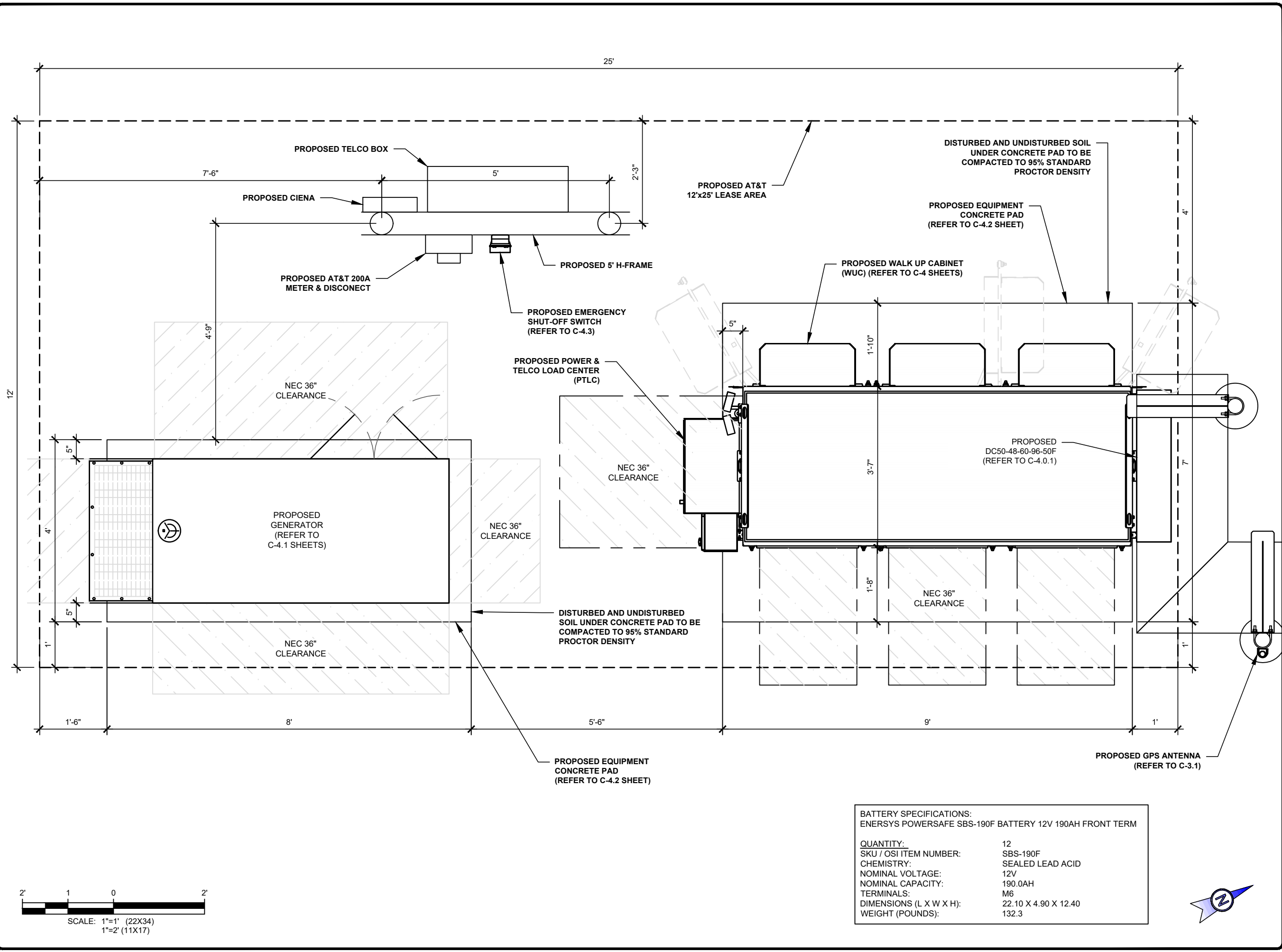
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ENLARGED SITE PLAN

SHEET NUMBER:
C-1.1

SMW JOB #24-5408



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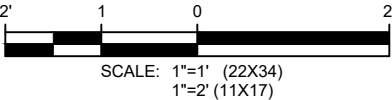
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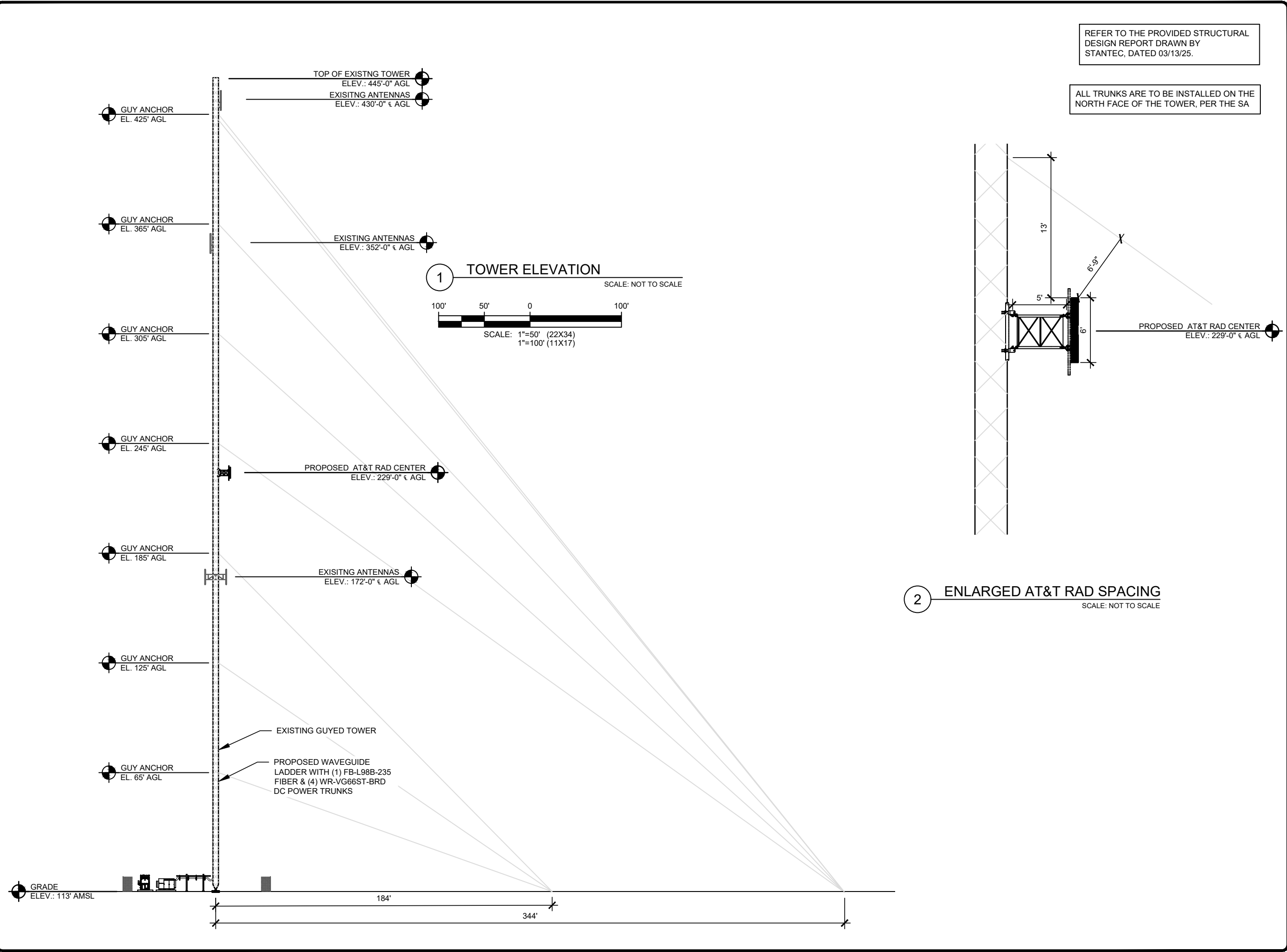
EQUIPMENT PLAN

SHEET NUMBER:

C-1.2



BATTERY SPECIFICATIONS:	
ENERSYS POWERSAFE SBS-190F BATTERY 12V 190AH FRONT TERM	
QUANTITY:	12
SKU / OSI ITEM NUMBER:	SBS-190F
CHEMISTRY:	SEALED LEAD ACID
NOMINAL VOLTAGE:	12V
NOMINAL CAPACITY:	190.0AH
TERMINALS:	M6
DIMENSIONS (L X W X H):	22.10 X 4.90 X 12.40
WEIGHT (POUNDS):	132.3



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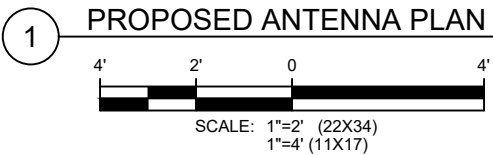
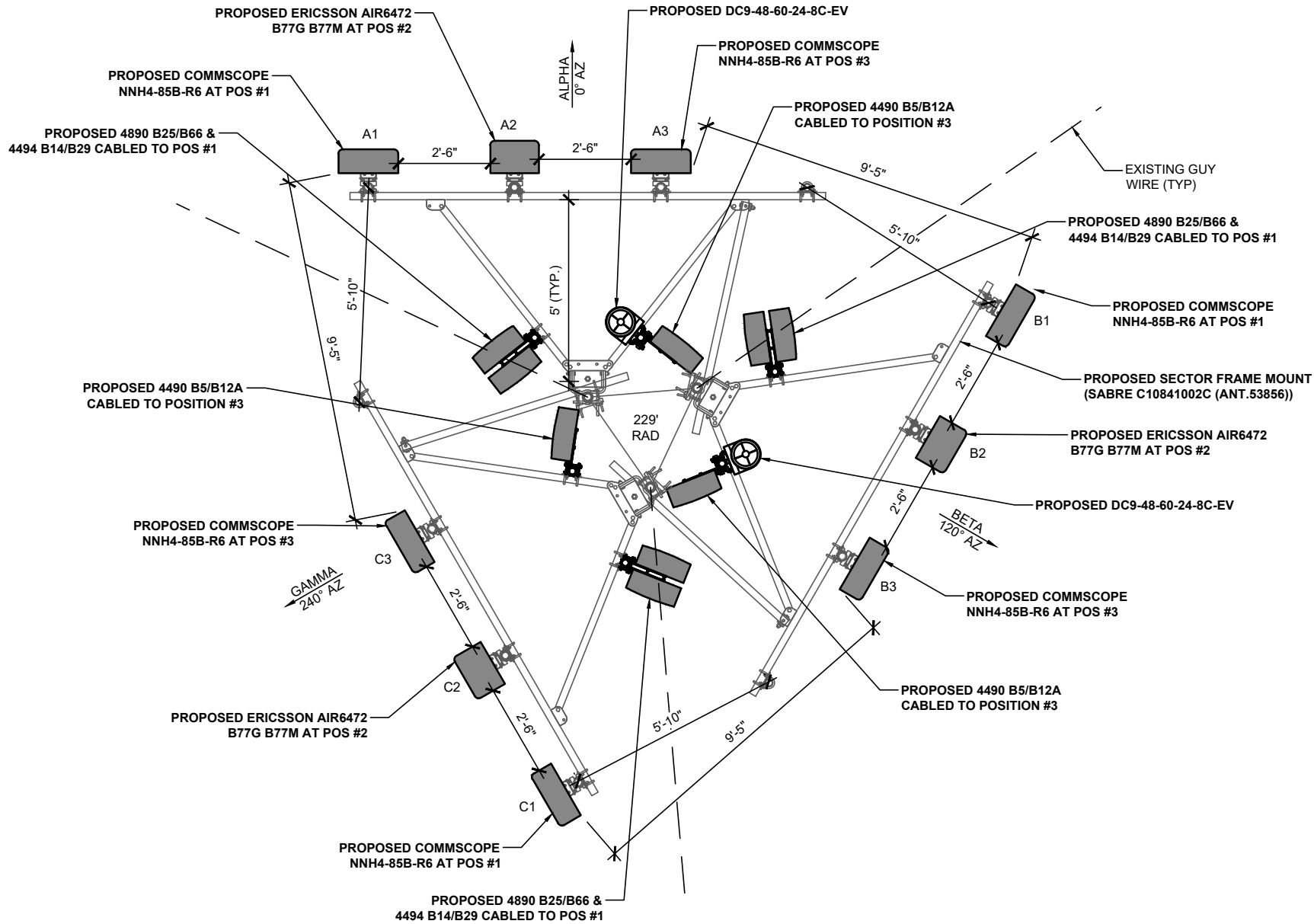
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TOWER ELEVATION

SHEET NUMBER:
C-2

SMW JOB #24-5408



- NOTES:
1. THESE CDS, PREPARED BY SMW ENGINEERING GROUP, INC., DO NOT SPEAK TO THE STRUCTURAL INTEGRITY OF THE TOWER OR CARRIER EQUIPMENT INSTALLED ON THE TOWER. CONTRACTOR SHALL HAVE THE LATEST STRUCTURAL ANALYSIS AND LATEST MOUNT ANALYSIS IN HAND BEFORE ANY NEW EQUIPMENT INSTALLATION PERFORMED.
 2. THIS ANTENNA ORIENTATION PLAN IS A SCHEMATIC. THE CONTRACTOR SHALL VERIFY TOWER ORIENTATION AND FIELD COORDINATE REQUIRED ADJUSTMENTS TO ACHIEVE THE DESIRED ANTENNA AZIMUTHS.
 3. ANTENNA CENTERLINE HEIGHT BASED ON TOP OF FOOTING ELEVATION.
 4. ALL ANTENNAS, CABLES AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWER ENGINEER'S RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS REPORT.
 5. ALL ANTENNA BRACKETS PER ANTENNA MANUFACTURER, OR EQUAL CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT WITH AT&T.

- ANTENNA PLACEMENT AND ALIGNMENT REQUIREMENTS:
INSTALL EQUIPMENT PER ATT-790-202-083 MACRO BUILDING STANDARDS, ISSUED 12/14/23:
1. ALL ANTENNA HORIZONTAL AND CORNER SPACING AT MINIMUM OF 24" FROM EDGE TO EDGE OF ANTENNAS.
 - MAXIMIZE EDGE TO EDGE ANTENNA SPACING BEYOND 24" WHERE POSSIBLE
 2. ALL ANTENNA SKEW TO MOUNT IS NOT APPROVED.
 - SKEW ALIGNMENT ACCURACY IS $\pm 3^\circ$
 3. ALL ANTENNA FACE SURFACES MUST ALIGN IN THE SAME PLANE WITHIN 2".
 4. ALL RADIO, DCX, ANCILLARY EQUIPMENT TO BE MOUNTED AT LEAST 12" BEHIND ANTENNA MOUNTING PIPE.
 - JUMPERS ARE NOT RESTRICTED TO THIS REQUIREMENT
 - ROUTE CABLES AWAY FROM THE ANTENNA RATHER THAN UP AND BEHIND THE ANTENNA

CORNER SPACING ANTENNA MOUNTING PIPE SPACING		
MOUNT NOMINAL LENGTH	MAXIMUM ANTENNA LENGTH	PIPE-TO-PIPE SPACING
10' (3 POSITION)	36"	42"
12' (4 POSITION)	24"	36"
14' (4 POSITION)	32"	40"
14' (5 POSITION)	18"	33"

THESE CD'S WERE COMPILED IN PART BY UTILIZING 15743282 RFDS UPDATED ON 05/04/2025.
ALL AT&T TOWER EQUIPMENT INFORMATION TO BE CONFIRMED WITH LATEST AT&T RF DESIGN PRIOR TO INSTALLATION.



AT&T FA
15743282
SITE NAME
CLAY HOLE CREEK
CROWN CASTLE SITE NUMBER
870209
SITE ADDRESS
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LAKE CITY, FL 32055

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ANTENNA PLAN

SHEET NUMBER:

C-2.1

DC / FIBER DEMARCATION BOX							
RAYCAP							
MOUNTING HEIGHT	MODEL	QTY.	MODEL	SIZE	QTY.		LENGTH PER LINE
229'	DC9-48-60-24-8C-EV	2	FB-L98B-235 FIBER TRUNK	0.39"	1		-
-	-	-	WR-VG66ST-BRD DC POWER TRUNK	0.92"	4		
-	-	-	-	-	-	-	

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FINAL ANTENNA SCHEDULE															
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY				CABLES				
SECTOR	RAD	AZ	POS	MAKE	MODEL	QTY.	RADIOS	QTY.	ADDITIONAL TOWER MOUNTED EQUIPMENT	QTY.	MODEL	SIZE	QTY.	LENGTH PER LINE	COLOR CODE
ALPHA	229'	0°	A1	COMMSCOPE	NNH4-85B-R6	1	4890 B25/B66 4494 B14/B29	1 1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 4 2 8	15'-0" 15'-0" 15'-0" 12'-0"	1 RED
	229'	0°	A2	ERICSSON	AIR6472 B787G B77M	1	-	-	-	-	FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 7/16" 1/2"	1 2 8	15'-0" 15'-0" 12'-0"	2 RED
	229'	0°	A3	COMMSCOPE	NNH4-85B-R6	1	4490 B5/B12A	1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 1 2 8	15'-0" 15'-0" 15'-0" 12'-0"	3 RED
	-	-	A4	-	-	-	-	-	-	-	-	-	-	-	-
BETA	229'	120°	B1	COMMSCOPE	NNH4-85B-R6	1	4890 B25/B66 4494 B14/B29	1 1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 4 2 8	15'-0" 15'-0" 15'-0" 12'-0"	1 YELLOW
	229'	120°	B2	ERICSSON	AIR6472 B787G B77M	1	-	-	-	-	FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 7/16" 1/2"	1 2 8	15'-0" 15'-0" 12'-0"	-
	229'	120°	B3	COMMSCOPE	NNH4-85B-R6	1	4490 B5/B12A	1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 1 2 8	15'-0" 15'-0" 15'-0" 12'-0"	3 YELLOW
	-	-	B4	-	-	-	-	-	-	-	-	-	-	-	-
GAMMA	229'	240°	G1	COMMSCOPE	NNH4-85B-R6	1	4890 B25/B66 4494 B14/B29	1 1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 4 2 8	15'-0" 15'-0" 15'-0" 12'-0"	1 GREEN
	229'	240°	G2	ERICSSON	AIR6472 B787G B77M	1	-	-	-	-	FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 7/16" 1/2"	1 2 8	15'-0" 15'-0" 12'-0"	-
	229'	240°	G3	COMMSCOPE	NNH4-85B-R6	1	4490 B5/B12A	1	-	-	RET JUMPER FIBER JUMPER (RAYCAP TO RRU) DC JUMPER (RAYCAP TO RRU) COAX JUMPER (RRU TO ANTENNA)	3/8" 3/8" 7/16" 1/2"	1 1 2 8	15'-0" 15'-0" 15'-0" 12'-0"	3 GREEN
	-	-	G4	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL						9	TOTAL	9				TOTAL COAX FEEDLINE	0	0'-0"	
												TOTAL FIBER JUMPER	18	270'-0"	
												TOTAL DC JUMPER	18	270'-0"	
												TOTAL COAX JUMPERS	72	864'-0"	
												TOTAL 3/8" RET JUMPERS	6	90'-0"	



AT&T FA
15743282
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CROWN CASTLE SITE NUMBER
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SITE ADDRESS
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LAKE CITY , FL 32055

ISSUED FOR:			
REV	DESCRIPTION	BY	DATE
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B	PERMITTING	ZDS	05/27/25

CA# 33693

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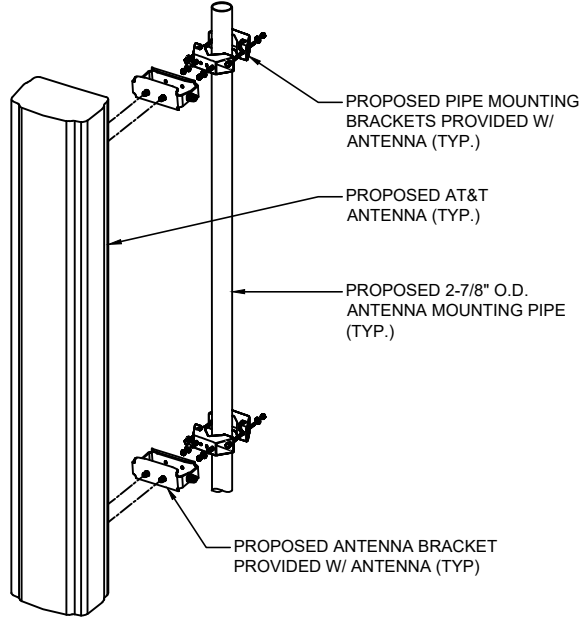
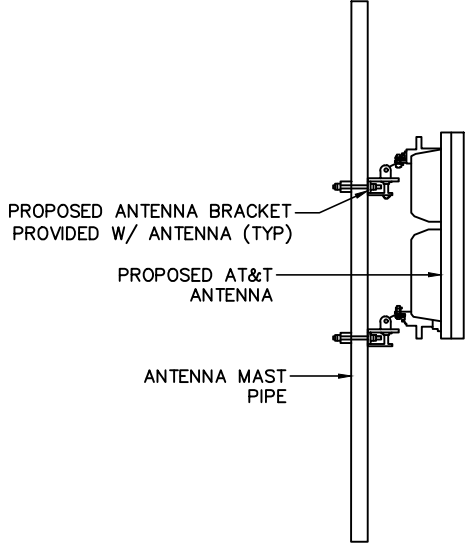
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ANTENNA & CABLE
SCHEDULE

SHEET NUMBER:

C-2.1.1

SMW JOB #24-5408



1 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE



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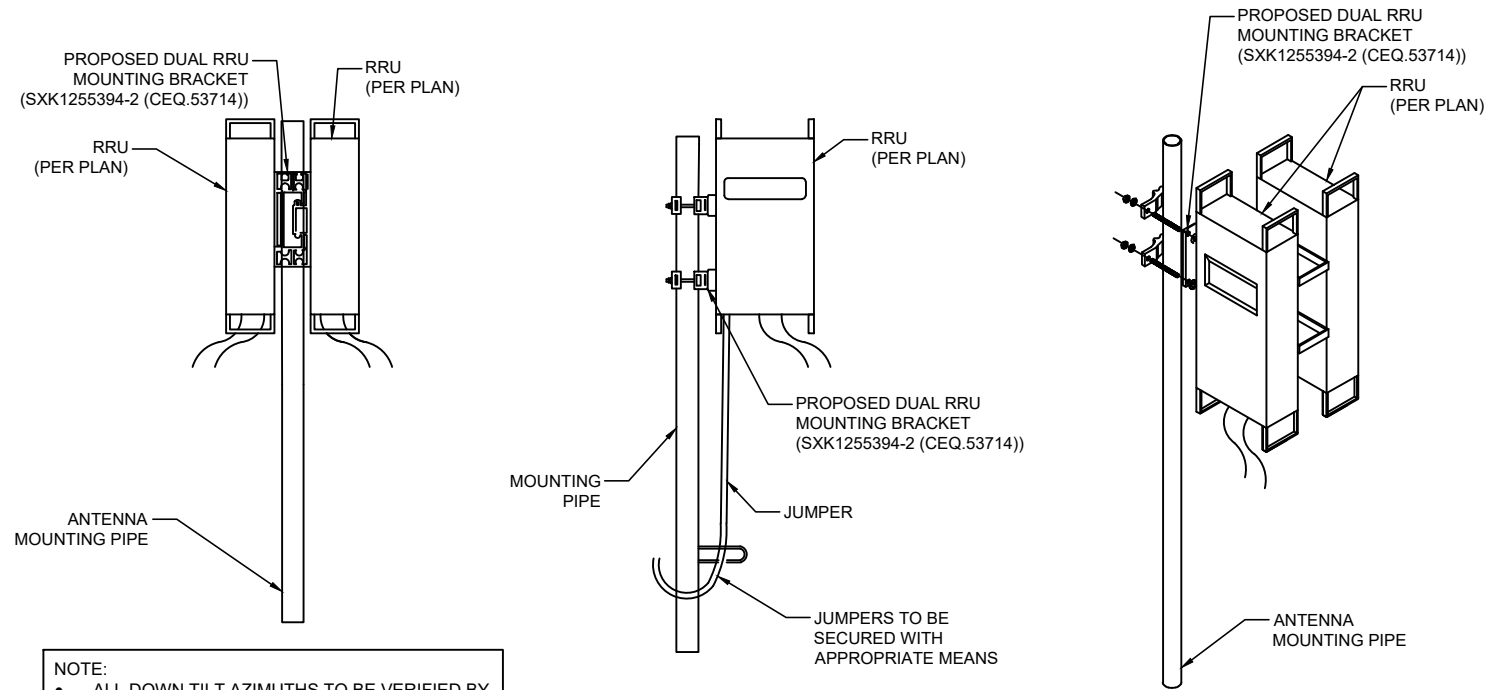
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MOUNTING DETAILS

SHEET NUMBER:
C-2.2

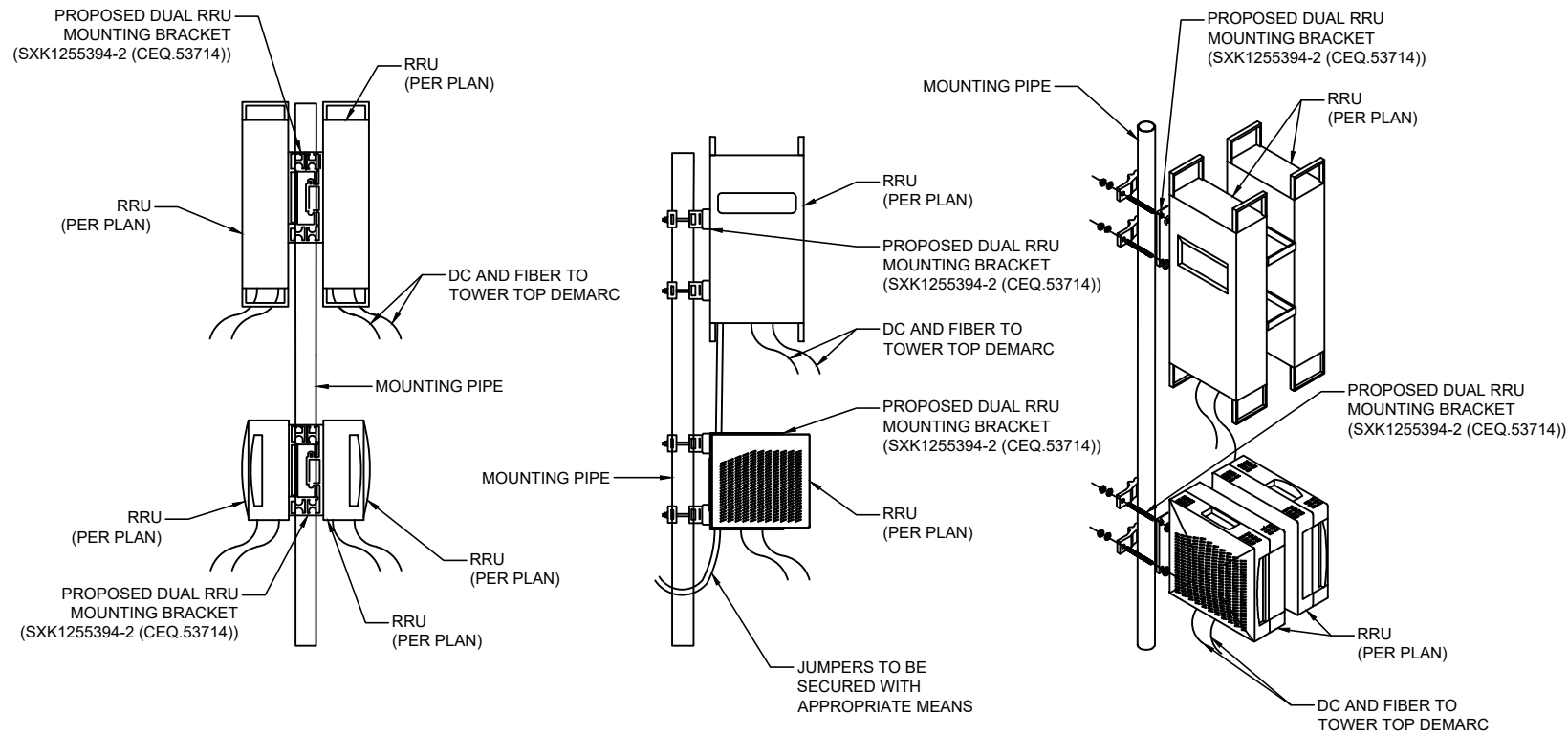
SMW JOB #24-5408



NOTE:

- ALL DOWN TILT AZIMUTHS TO BE VERIFIED BY RF SITE DATA SHEET. SEE CONSTRUCTION MANAGER FOR INFORMATION.
- SEE THE LATEST RFDS FOR RADIO TYPES

1 BACK TO BACK MOUNTING DETAIL
SCALE: NOT TO SCALE



2 STACKED MOUNTING DETAIL
SCALE: NOT TO SCALE



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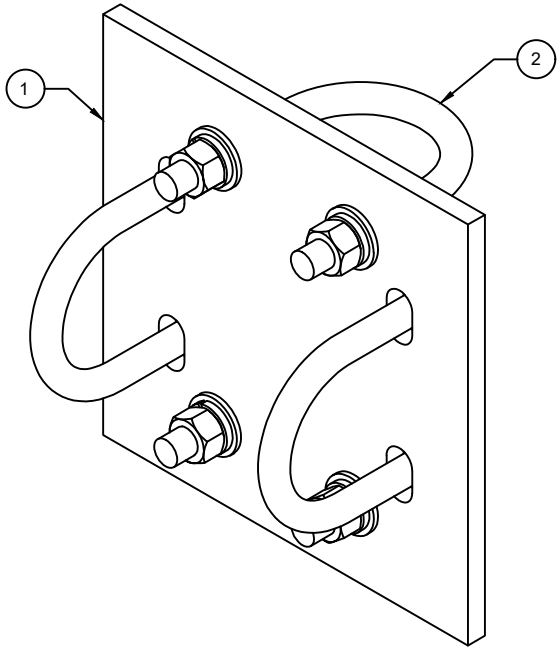
C-2.2.1

SMW JOB #24-5408

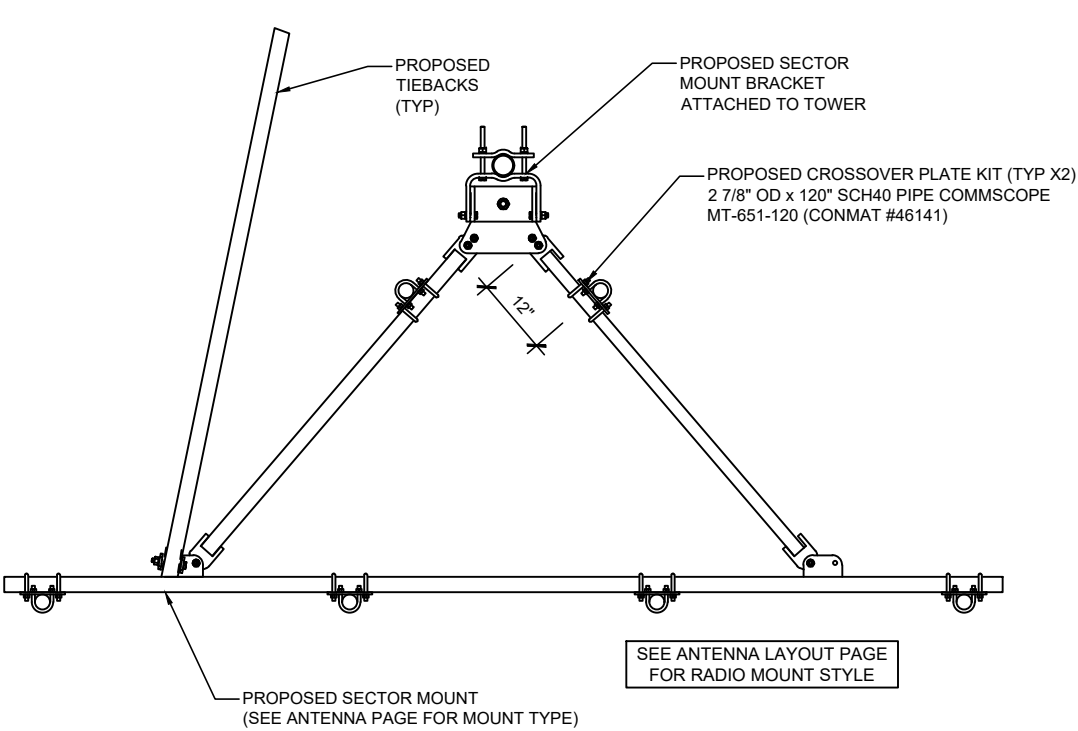
DETAILS BY OTHERS NOTE:
DETAILS SHOWN ON THIS PAGE WERE
PROVIDED BY OTHERS AND ARE NOT
CARRIED UNDER THE SIGNATURE AND
SEAL OF SMW AND/OR IT'S ENGINEERS.

DESCRIPTION	QTY.	WEIGHT
PLATE 2-3/8" O.D. TO 2-3/8" O.D.	1	6.34 LBS
1/2" X 4" GALV U-BOLT KIT	4	0.57 LBS

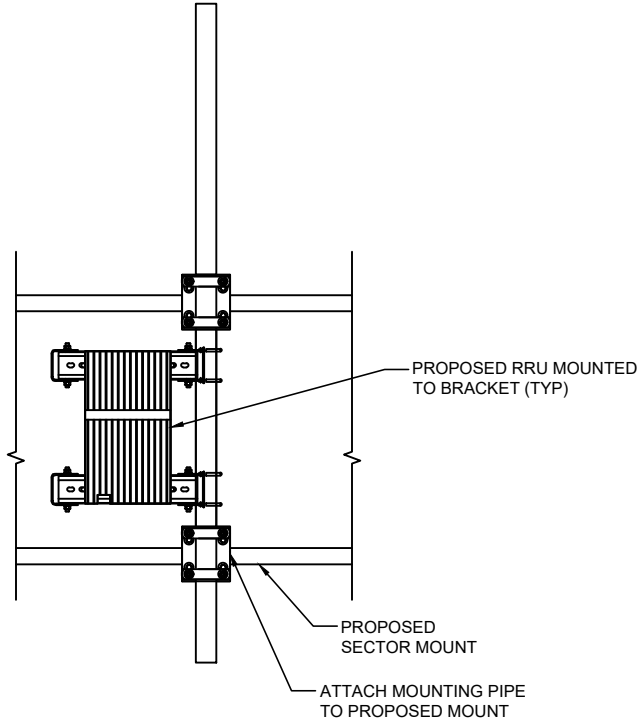
REVISIONS				
REV	ZONE	DESCRIPTION	BY	DATE
A		INITIAL RELEASE	MLO	05/24/99
B		REDRAWN AND ADDED BOM	MA	04/19/01
C		REMOVED T VIEW	JTS	06/07/01



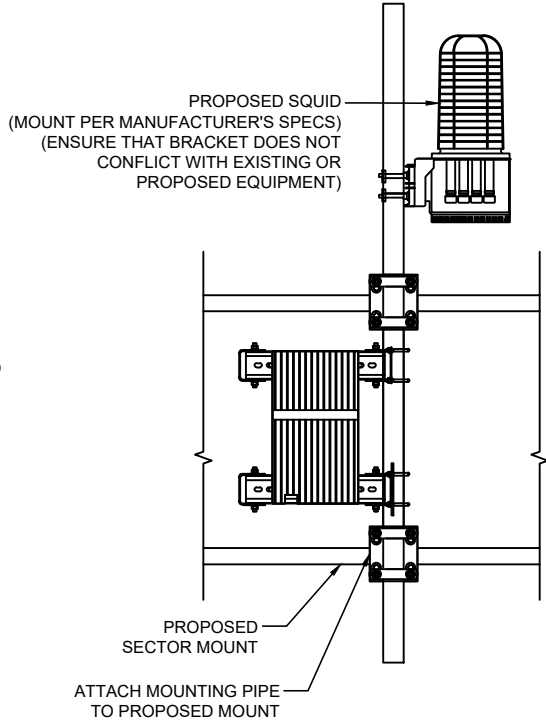
These drawings and specifications are the proprietary property of ANDREW CORPORATION and may be used only for the specific purpose authorized in writing by Andrew Corporation.		PROJECT: ACG	SHEET: 1 of 1	PART NUMBER: XP-2020
ALL DIMENSIONS ARE IN INCHES U.O.S. TOLERANCES UNLESS OTHERWISE SPECIFIED: X = ± .06 ANGLES ±2° XX = ± .03 FRACTIONS ±1/32 XXX = ± .010 REMOVE BURRS AND BREAK EDGES .005		DRAWN BY: TP	CHECKED BY: NTS	DESCRIPTION: CROSSOVER PLATE KIT 2.375" O.D. X 2.375" O.D.
DO NOT SCALE THIS PRINT		DATE: 01/07/05	QUANTITY: A36	ASSEMBLY DRAWING
		REVISION: C	QUANTITY: GALV A123	ORLAND PARK, IL. 60462 U.S.A.



PLAN VIEW



ELEVATION VIEW



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15743282
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C-2.2.2



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B	PERMITTING	ZDS	05/27/25

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MOUNT DETAILS

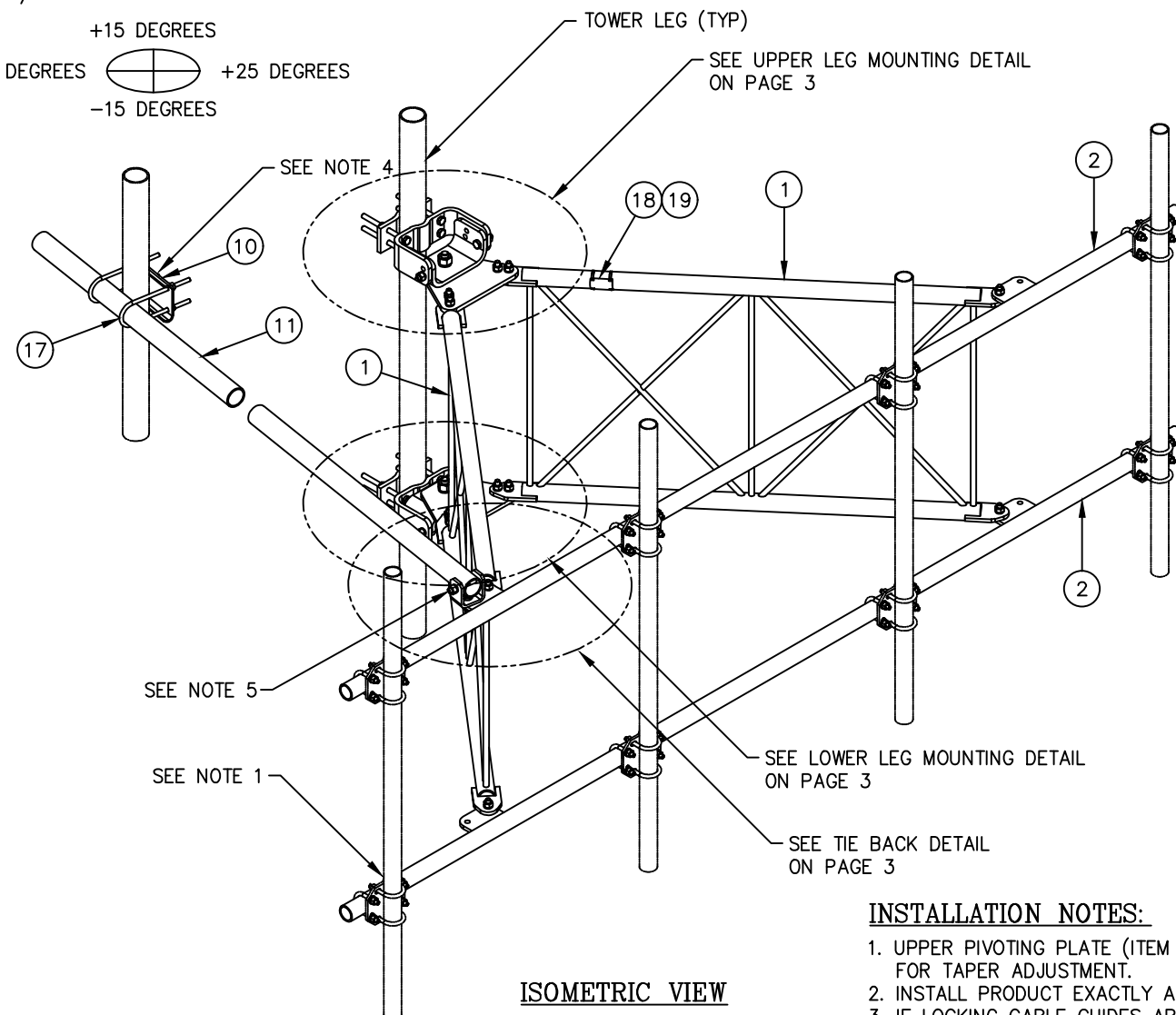
SHEET NUMBER:

C-2.2.3

TIEBACK ANGLE RANGE DETAIL

+/- 15 DEGREES VERTICAL
+/- 25 DEGREES HORIZONTAL

+15 DEGREES
-25 DEGREES
-15 DEGREES
+25 DEGREES



ISOMETRIC VIEW

NOTES:

1. MOUNTING PIPES & CROSSOVER PLATE KITS MUST BE PURCHASED SEPARATELY.
2. QUANTITIES SHOWN IN LISTS OF MATERIAL ARE FOR ONE (1) V-BOOM ONLY.
3. THIS V-BOOM WILL MOUNT TO THE FOLLOWING: 1 1/2"Ø TO 5 9/16"Ø ROUND LEG.
4. TIEBACK MUST BE CONNECTED TO A RIGID MEMBER THAT PROVIDES ADEQUATE SUPPORT WITHIN THE LIMITS NOTED ABOVE IN THE TIEBACK ANGLE RANGE DETAIL UNLESS APPROVED BY THE ENGINEER OF RECORD.
5. THE TIEBACK IS SHOWN IN THIS POSITION AS A DEFAULT. THIS TIEBACK CAN BE CONNECTED AT ANY (1) OF THE (4) POSITIONS ON THE TABS ON THE FACE PIPE.

INSTALLATION NOTES:

1. UPPER PIVOTING PLATE (ITEM 4) HAS THREE HOLES ON EACH SIDE AND UPPER LEG CLAMP PLATE (ITEM 5) HAS TWO HOLES ON EACH SIDE FOR TAPER ADJUSTMENT.
2. INSTALL PRODUCT EXACTLY AS SHOWN IN DRAWING, WITH ALL BOLTS FACING UPWARDS.
3. IF LOCKING CABLE GUIDES ARE REQUIRED THEY MUST BE PURCHASED SEPARATELY (SEE PAGE 4).

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES				MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"				TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION		



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12' V-BOOM ASSEMBLY W/TIEBACK (5' STANDOFF) W/NO ANTENNA MOUNTING PIPES

DATE		SIZE	DRAWING NO.	REV
06/07/21		B	C10841002C	0
DRAWN BY		SCALE		PAGE
WRF		None		1 OF 4
CHECKED BY				
EK				

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C10841002C 12' V-BOOM ASSEMBLY W/TIEBACK

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	2	CW01556	WELDMENT, STANDOFF ARM	192
2.	2	CW01223	WELDMENT, FACE PIPE	147
3.	2	CS03519	PLATE, ROTATING	35
4.	1	CS03110	PLATE, PIVOTING (UPPER)	16
5.	1	CS03111	PLATE, LEG CLAMP (UPPER)	17
6.	1	CS03112	PLATE, PIVOTING (LOWER)	14
7.	1	CS03113	PLATE, LEG CLAMP (LOWER)	17
8.	2	CS03114	PLATE, LEG CLAMP (BACK)	14
9.	1	CS00096	PLATE, TIEBACK SWIVEL	3
10.	1	CS03518	PLATE, TIEBACK CLAMP	5
11.	1	CS00249	PIPE, TIEBACK 2 7/8" O.D. X 0.203 X 15'-6	93
12.	2	C40026073	BOLT ASSEMBLY, 1 Ø X 3 A325	4
13.	8	C40140004	BOLT ASSEMBLY, 5/8 Ø X 8 A307	13
14.	1	C40026035	BOLT ASSEMBLY, 5/8 Ø X 5 A325	1
15.	12	C40026025	BOLT ASSEMBLY, 5/8 Ø X 2 1/2 A325	6
16.	5	C40026024	BOLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	3
17.	2	C40034201	U-BOLT ASSEMBLY, 1/2 Ø X 3 7/16 C-C	3
18.	1	Z30992044	MOUNT CLASSIFICATION TAG C10841001C/C10841002C	1
19.	2	C40062103	STAINLESS STEEL SELF-LOCKING CABLE TIE	1
TOTAL WEIGHT				585

PACKAGING NOTE

- CK00426-INCLUDES ITEM 1
CK00427-STL INCLUDES ITEMS 2 & 11
CK00427-HDW INCLUDES ITEMS 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18 & 19.



AT&T FA
15743282
SITE NAME
CLAY HOLE CREEK
CROWN CASTLE SITE NUMBER
870209
SITE ADDRESS
4604 SOUTHWEST STATE ROAD 47
LAKE CITY, FL 32055

ISSUED FOR:			
REV	DESCRIPTION	BY	DATE
A	CLIENT REVIEW	DAJ	04/08/25
B	PERMITTING	ZDS	05/27/25

CA# 33693

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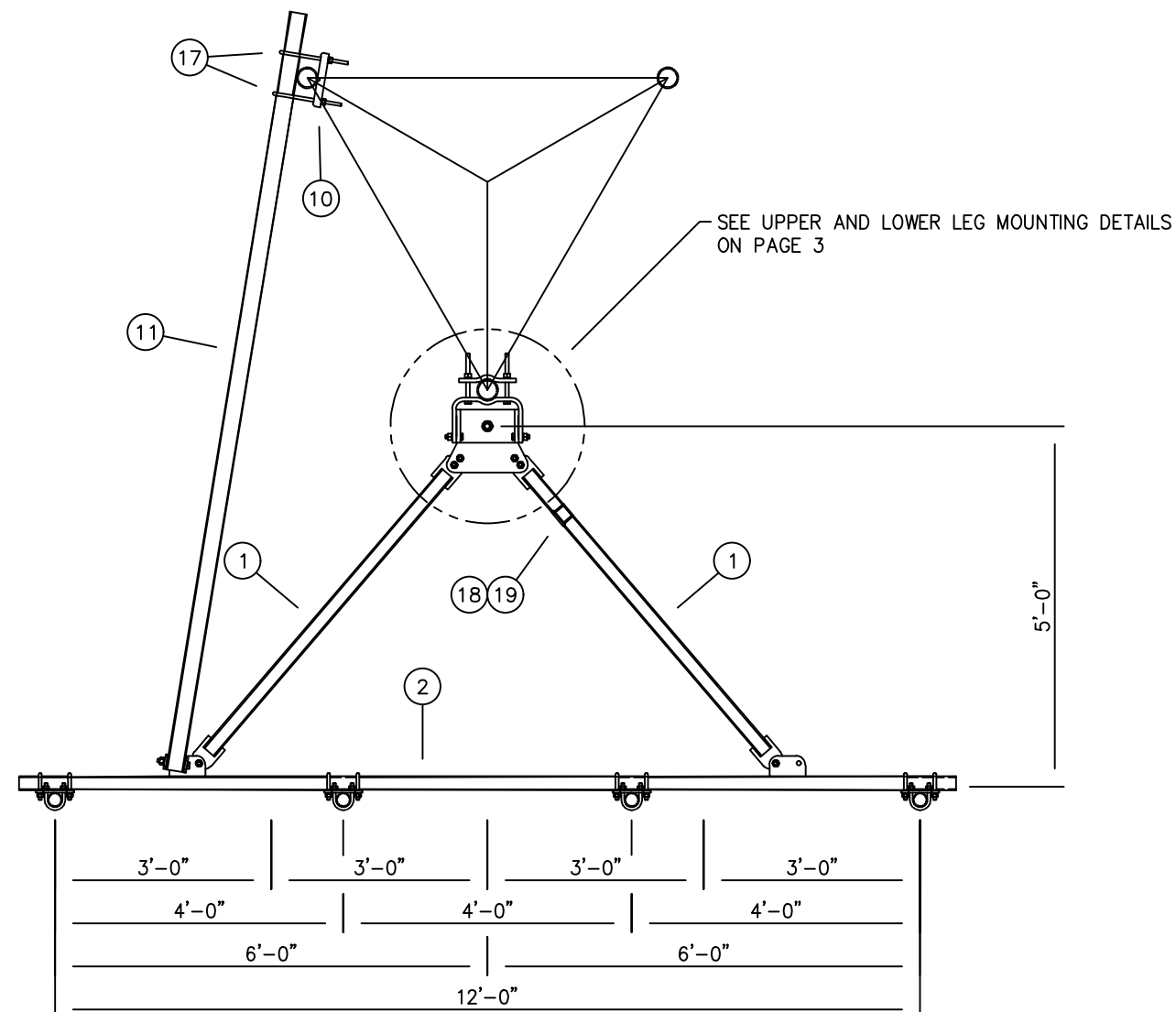
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MOUNT DETAILS

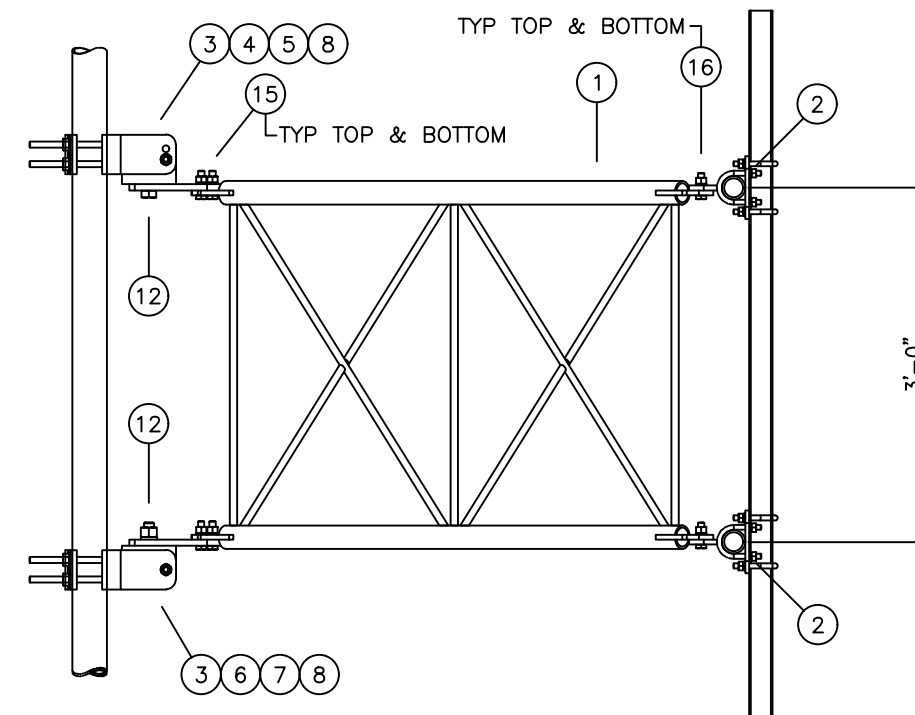
SHEET NUMBER:

C-2.2.4

SMW JOB #24-5408



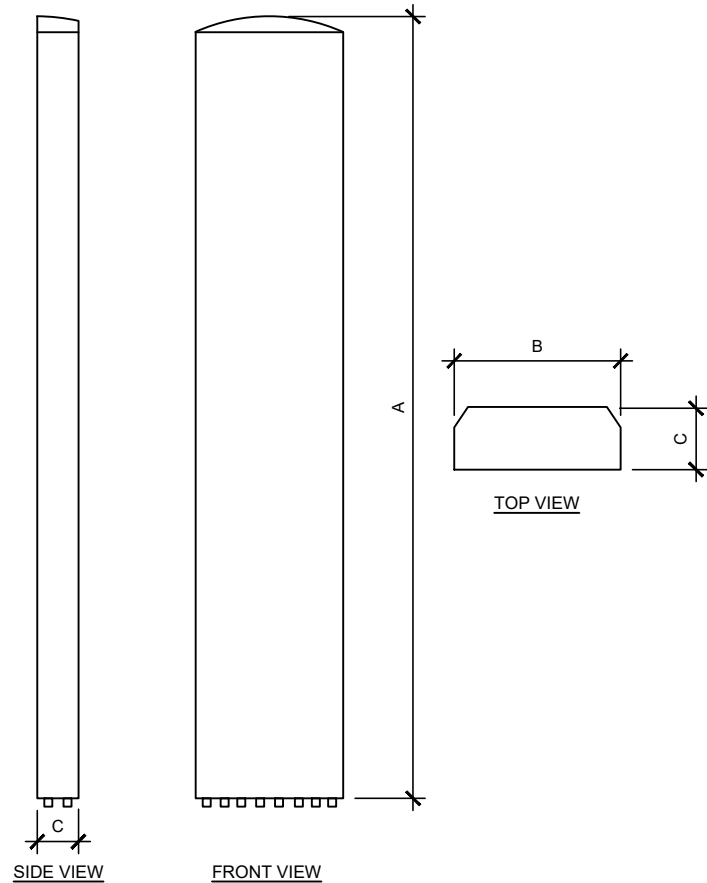
MOUNTING OPTIONS
SHOWING MOUNTING PIPE PLACEMENTS



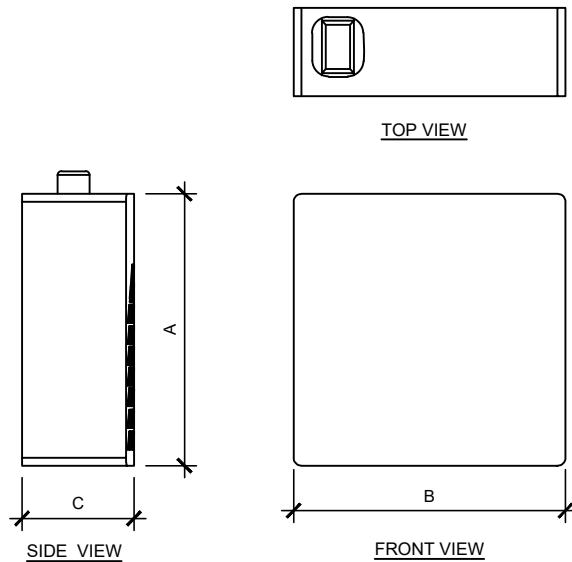
SIDE VIEW

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES				MATERIAL:			12' V-BOOM ASSEMBLY W/TIEBACK (5' STANDOFF) W/NO ANTENNA MOUNTING PIPES					
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"				TOLERANCES DO NOT APPLY TO RAW MATERIAL								
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							DATE	06/07/21	B	C10841002C		0
							DRAWN BY		WRF			
							CHECKED BY		EK			
											SCALE	PAGE
											None	2 OF 4
REV	DATE	DRW	CHK	DESCRIPTION								

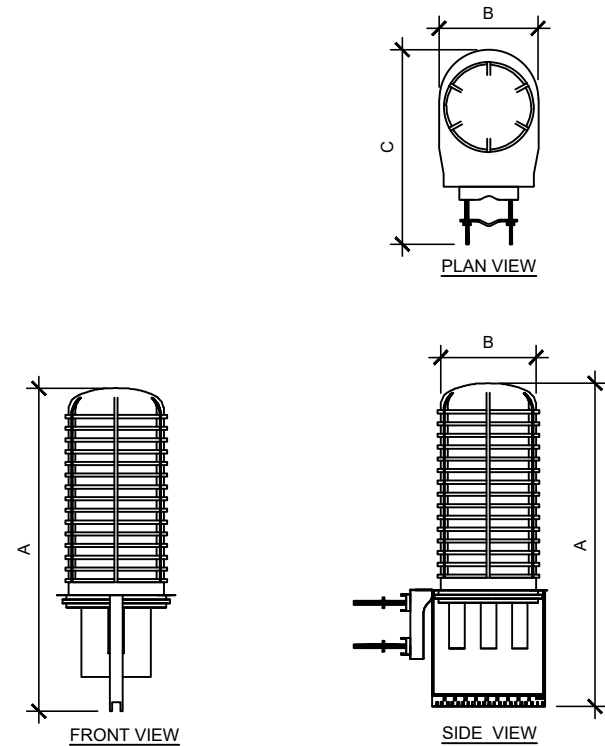
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ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
NNH4-65B-R6	72.0"	19.6"	7.8"	72.3
AIR 6472 B77G B77M	36.3"	15.8"	7.4"	67.2



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4890 B25 / B66	20.6"	15.7"	8.26"	67.2
4494 B14/B29	15.0"	13.2"	10.9"	72.0
4490 B5 / B12A	20.6"	15.6"	7.0"	65.0



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC9-48-60-24-8C-EV	31.4"	18.3"	10.2"	16.0



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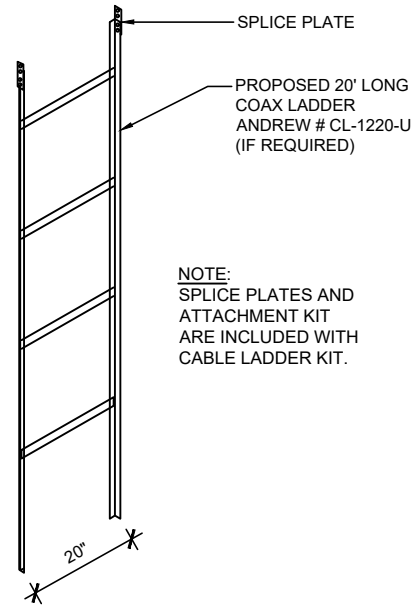
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TOWER EQUIPMENT SPECS

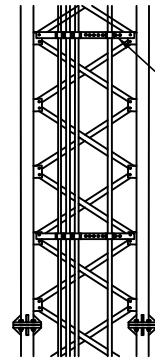
SHEET NUMBER:

C-2.3

SMW JOB #24-5408

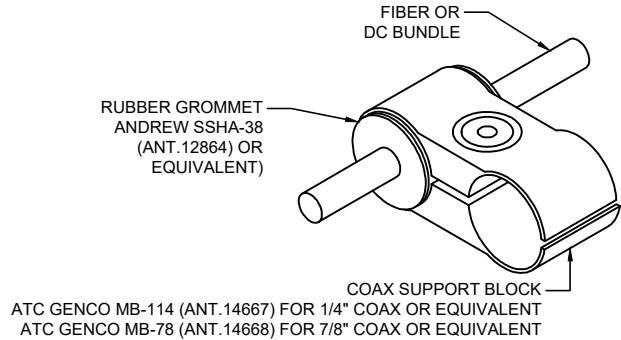


1 LADDER DETAIL
SCALE: NOT TO SCALE



- PROPOSED WAVE GUIDE
LADDER REF. DET.
THIS SHEET
- NOTES:
- 1) THE LAYOUT ON THIS DETAIL IS FOR REFERENCE ONLY.
 - 2) CONTRACTOR SHALL VERIFY EXACT PLACEMENT OF NEW COAX WITH CURRENT STRUCTURAL ANALYSIS BY OTHERS.
 - 3) NOT ALL CABLES SHOWN FOR CLARITY.

2 WAVEGUIDE DETAIL
SCALE: NOT TO SCALE



3 CABLE CONFIGURATION DETAIL
SCALE: NOT TO SCALE



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TOWER EQUIPMENT DETAILS

SHEET NUMBER:

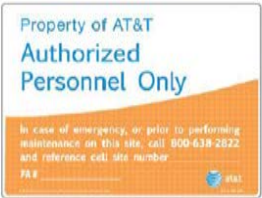
C-2.4

SMW JOB #24-5408

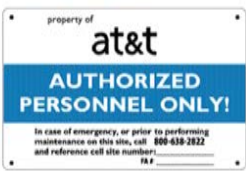
Section 1: Standard Cell Site Signage

➤ AT&T owned sites require the following signs:

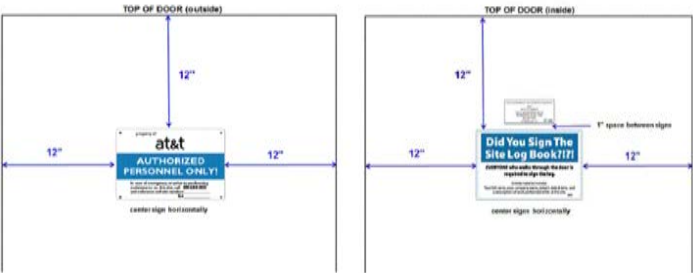
1. Gate sign
- 15' x 20' aluminum gate sign



2. Door sign (shelter or tenant improvement room)
- 8" x 12" door sign



Recommended layouts for main shelter door



NEW INFO-2 SIGN POLICY

Effective immediately, Information 2 signs shall be retired from AT&T sign inventory and 5"x7" Caution Sign 2C will be used instead.

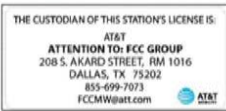
Vendors/AT&T Field technicians shall remove existing "Information Sign 2" sign/s that currently exist at the site (i.e. parapet mount) and replace them with the following "Caution Sign 2C" sign which has 5"x7" dimension.



INFORMATION Sign 2

Caution Sign 2C

3. FCC Custodial License sign (note change in address for FCC Group effective 9/2017)
- 3" x 6.5"



4. No Trespassing signs



➤ AT&T leased sites (not owned by AT&T) only require a door and FCC Custodial License sign

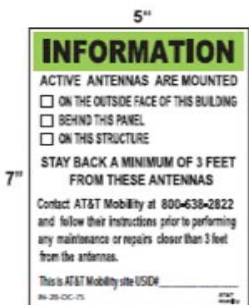
Combination sign packages for shelters and WIC (Walk-In-Cabinet):

➤ Available from Excel Signs, item # ATT-SWIC-DC-3KIT. Includes door, log book and FCC Custodial Letter signs

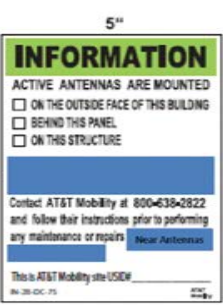


NEW INFO-2 SIGN POLICY (Existing Historical Signs)

If Information sign 2 sign/s are not able to be removed (i.e. existing stocks or damage risk to structure, the verbiage will be covered as example on bottom right as well as adding "Near Antenna" with a marker



INFORMATION Sign 2



Covered INFORMATION Sign 2

Section 4: FCC Signs

➤ Antenna Structure Registration (ASR) sign

1. 8" x 12" sign



➤ FCC custodial letter

1. 3' x 6.5" decal sign (available through Excel Sign, part #ATT DC CUS 653)



OR

2. 8.5" x 11" standard paper



Section 6: Miscellaneous signs

The following signs are optional and may be posted as needed:

➤ Log Book sign

1. Posting on inside of shelter door recommended



➤ Padlock decal

1. Can be affixed to padlocks to indicate an AT&T lock
2. Can also be used to label items such as electrical disconnect boxes, electrical meters, etc.
3. 1" x 8" decal if ordered from Excel Sign



➤ Gate signs



➤ Door Exit sign

1. May be posted on the inside of shelter doors at sites currently not equipped with an Exit sign (or emergency light/exit sign combination) above the door
2. Sign has glow in the dark letters and border to aid visibility
3. Excel part # EXT-128-DL



SMW JOB #24-5408

AT&T FA

15743282

SITE NAME

CLAY HOLE CREEK

CROWN CASTLE SITE NUMBER

870209

SITE ADDRESS

4604 SOUTHWEST STATE ROAD 47

LAKE CITY, FL 32055

ISSUED FOR:

REV	DESCRIPTION	BY	DATE
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SITE SIGNAGE

SHEET NUMBER:

C-3

SITE SIGNAGE PLACEMENT:

ALL SIGNS SHALL BE SECURED TO THE COMPOUND FENCE LEFT OR RIGHT OR THE MAIN ACCESS GATE AND ON THE SITE OF THE SITE FACING THE ENTRANCE DRIVE. ALL SIGNS SHALL BE SECURED TO THE FENCE AT A HEIGHT SUITABLE FOR EASE OF VIEWING AND REASONABLY LEVEL. ALL SIGNS SHALL BE SECURED TO THE FENCE WITH STEEL HOG RINGS OR METAL TIES, NYLON OR PLASTIC ZIP TIES ARE NOT ALLOWED. SITE IDENTIFICATION SIGNAGE SHALL BE PLACED AT THE ROAD GATE IF NEEDED.

Section 2: Outdoor Cabinet Site Signage

Outdoor sites require the same gale and no trespassing signs as indoor sites if owned by AT&T. In place of the door sign the cabinets must have the following signs:

- Single cabinet sites require a sign, such as a door sign, that indicates AT&T as the owner and has provisions for adding the site number along with the MNRC contact number
 1. Sign must be affixed to the side of the cabinet (front, rear or side) which is most visible when approaching the cabinet from the site access point
 - 8" x 12" decal acceptable for outdoor cabinet



- Multiple cabinet sites require the sign specified in the previous bullet attached to the side of each cabinet on the end of the lineup. In addition, a sign indicating AT&T as the owner must be affixed to the front or rear of every cabinet (not both).
 1. AT&T identification sign is to be affixed to the most visible area (front or rear) when approaching the cabinets from the site access point
 - 3" x 6.5" decal is acceptable for front or rear of outdoor cabinets



- Example of AT&T identification signs on outdoor cabinets (signs on each end of lineup not shown but are required)



- Miscellaneous enclosures such as AC electrical boxes and meter housings, shall have an AT&T identification sign attached. Acceptable signs are engraved phenolic labels, the 3" x 6.5" sign shown above or the padlock decal shown on page 12 or an equivalent type of sign indicating AT&T ID

Page 4 of 12

- **Diesel generators installed outdoors**, such as on a pad in a compound, shall have signs affixed to the tank on both of the long sides of the generator. For belly tank style generators, if signs will not properly adhere to the tank they may be installed on the generator housing (alternate locations shown in yellow boxes below)
 1. AT&T identification sign, 8" x 12" or 3" x 6.5"
 2. Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0)
 3. Yellow EH&S sign, approximately 10" x 10"
 4. Diesel Fuel, Combustible, No Smoking (Excel combination sign is recommended)

Note: for stand-alone tank style generators (not belly tank) the only required sign on the generator itself is the AT&T identification sign. All 4 signs listed above will be installed on the stand-alone fuel tank

Belly Type Tank Style Generator



NOTE: if ribs on the generator tank do not allow enough room to place signs, it is acceptable to affix the signs to the generator housing

Stand-alone Type Tank Style



Page 8 of 12

Section 3: Fixed Generator Signage (continued)

Per AT&T EH&S, fixed generators are required to have the following signage:

1. AT&T identification sign, 8" x 12" or 3" x 6.5"



OR



2. Yellow EH&S sign



3. Fuel type, Combustible (Diesel), Flammable (Propane & Natural Gas) and No Smoking signs (individual signs or the Excel combination sign shown below are acceptable). Fuel tank capacity is optional



4. Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0) **Diesel only**



Page 6 of 12

Section 3: Fixed Generator Signage (continued)

Diesel generator signs may be purchased in a kit from Excel Signs (link below). The kit contains 2 of each required sign and provides all of the signage needed for a diesel generator site

Excel Sign Diesel Generator Combo Pack



Diesel Generator Combo Pack

Consists of:

- (2) Diesel Fuel 15x12 Decals
- (2) EH&S 11x11 Decals
- (2) NFPA Pre-printed 120 15x15 Decals
- (2) ATT Mobility 6.5x3 Logo Decals

Natural gas and propane generators signage requirements are identical to diesel generators with the exception that the Hazard Diamond sign is **not required** unless mandated by the Authority Having Jurisdiction (AHJ). Combination signs are available for both natural gas and propane through Excel sign. A combo sign pack is also available for propane generators.

Excel Sign Propane Generator Combo Pack



Propane Generator Combo Pack

- (2) Propane Fuel 15x12 Decals
- (2) EH&S 11x11 Decals
- (2) NFPA Pre-printed 240 15x15 Decals
- (2) ATT Mobility 6.5x3 Logo Decals

Page 9 of 12

Section 3: Fixed Generator Signage (continued)

Per AT&T EH&S, fixed generators are required to have signage posted as follows:

- **Diesel generators installed indoors**, such as a shelter generator room, shall have signs affixed to the entrance door to the room the generator is housed in and one of the long sides of the generator tank. If signs will not properly adhere to the tank they may be installed on the end of the generator housing (yellow box on far right photo below)
 1. AT&T identification sign, 8" x 12" or 3" x 6.5"
 2. Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0)
 3. Yellow EH&S sign
 4. Diesel Fuel, Combustible, No Smoking signs (Excel combination sign is recommended)

Door Signage



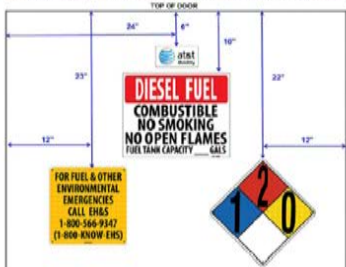
Preferred Tank Signage Location



Alternate Tank Signage Location



Recommended layout for a 4' x 7' generator room door



Page 7 of 12



AT&T FA
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EQUIPMENT & GENERATOR
SIGNAGE

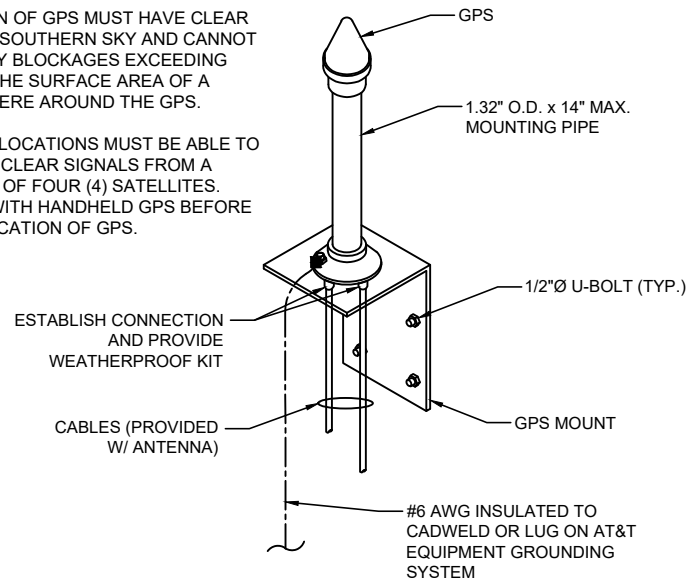
SHEET NUMBER:

C-3.1

- ICE BRIDGE NOTE:
- PRIOR TO CONSTRUCTION FIELD COORDINATE HEIGHT AND ROUTE OF ICE BRIDGE WITH TOWER OWNER
 - ALL SUPPORT POSTS MUST BE GROUNDED

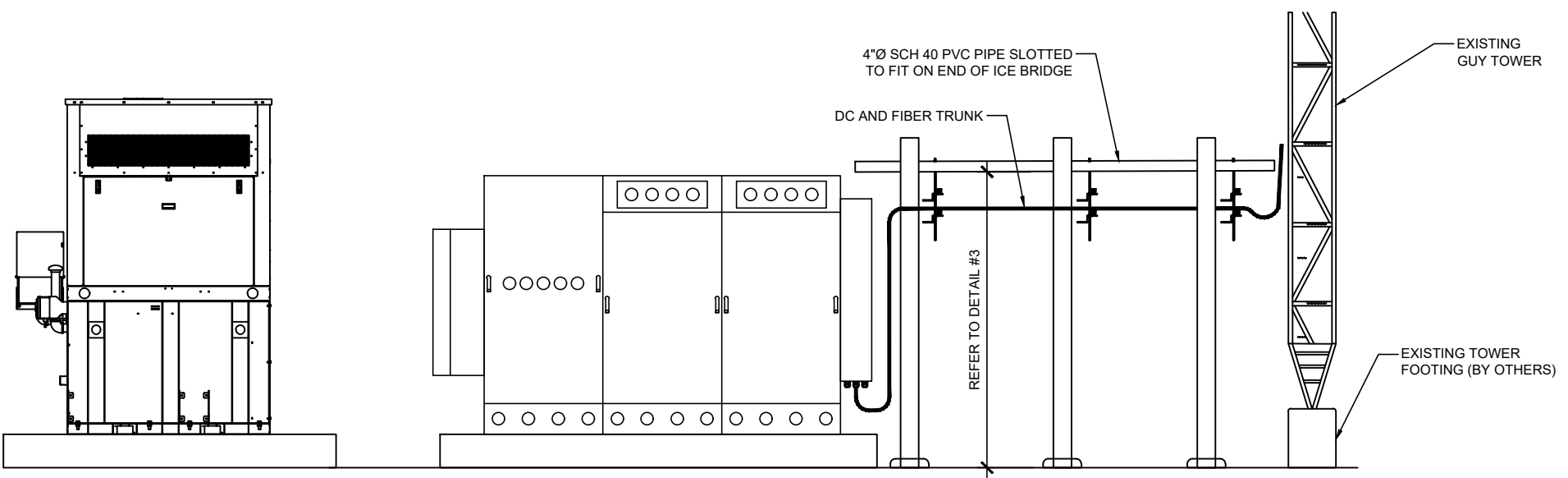
NOTES:

1. LOCATION OF GPS MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS.
2. ALL GPS LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS.

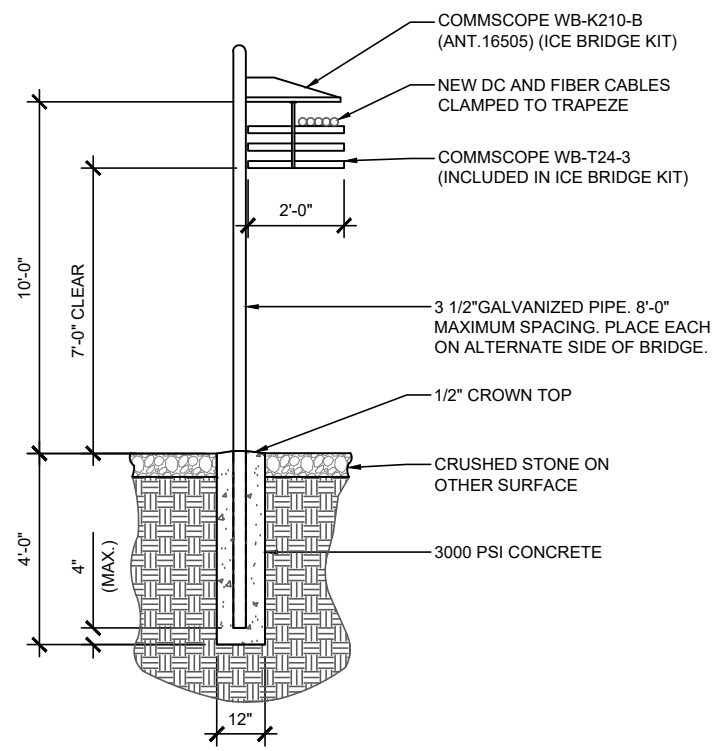


1 GPS ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE

2 NOT USED



3 ICE BRIDGE DETAIL
SCALE: NOT TO SCALE



4 SECTION A
SCALE: NOT TO SCALE



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CROWN CASTLE SITE NUMBER
870209
SITE ADDRESS
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LAKE CITY , FL 32055

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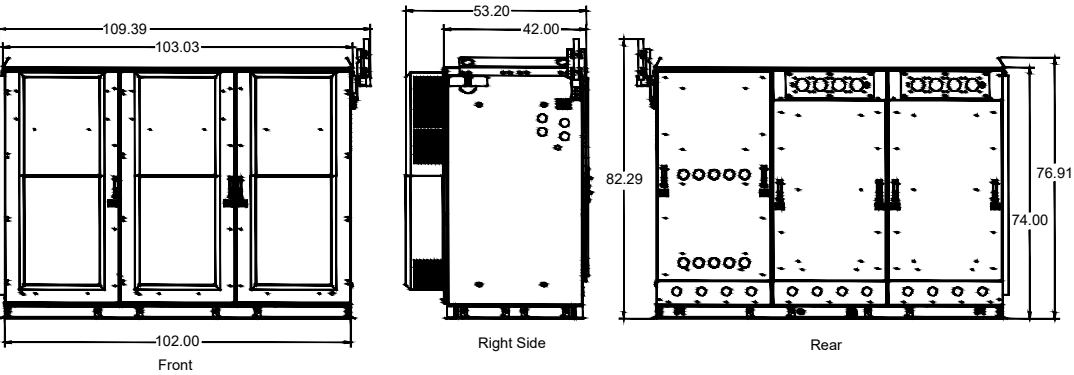
CONSTRUCTION DETAILS

SHEET NUMBER:

C-3.2

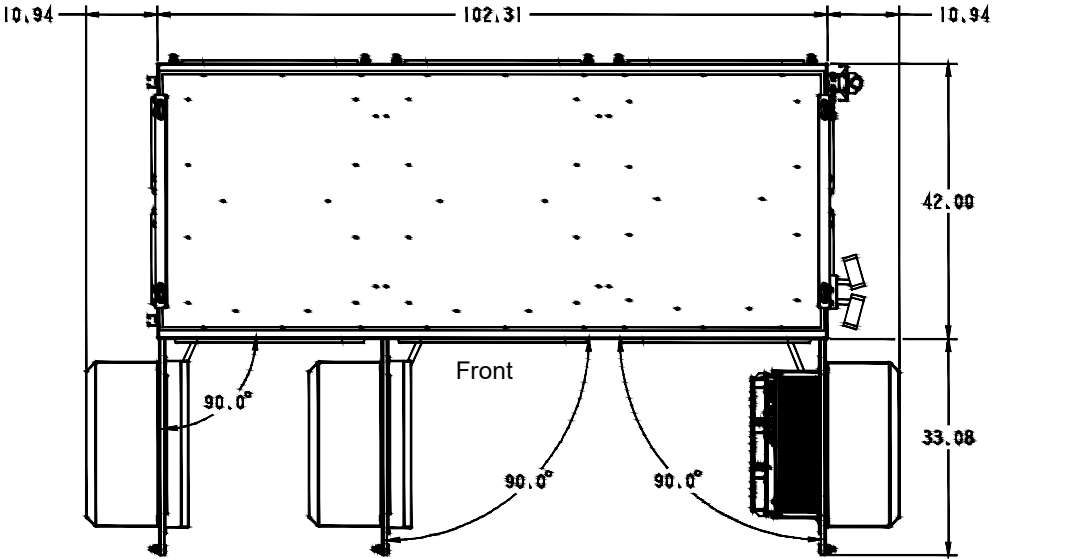
SMW JOB #24-5408

FIGURE 2.3 ENCLOSURE DIMENSIONS (F2020030) (3-BAY)

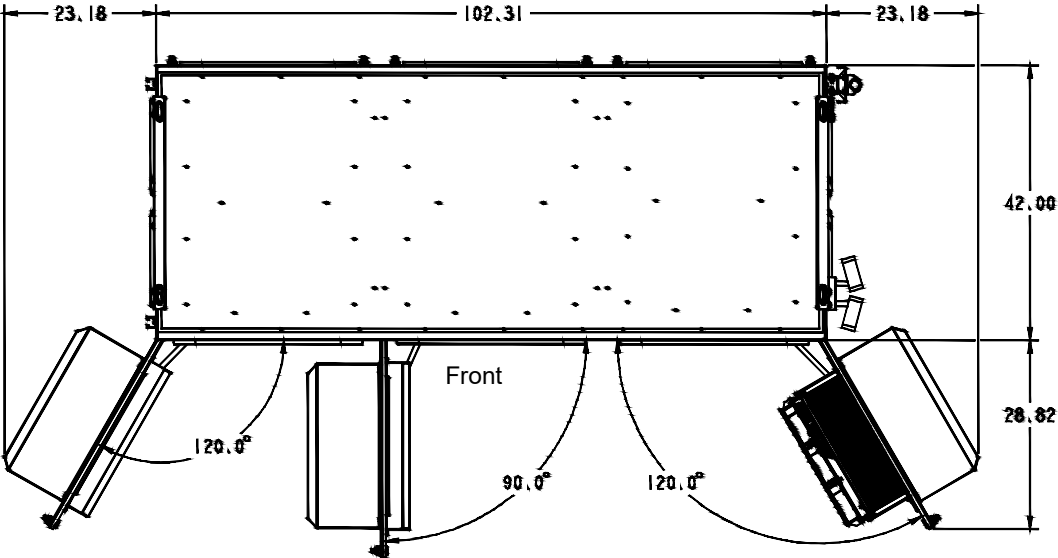


WUC SPECIFICATIONS				
VERTIV MODEL	WIDTH	LENGTH	HEIGHT	WEIGHT (LBS)
NETSURE X701 WUC (3-BAY)	102"	54"	74"	1650

FIGURE 2.5 OVERHEAD VIEW WITH DOOR OPEN (F2020030) (3-BAY)



Notes:
1. All dimensions are in inches.



DETAILS BY OTHERS NOTE:
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GROUND EQUIPMENT SPECIFICATIONS

SHEET NUMBER:

C-4

SMW JOB #24-5408



Vertiv™ NetSure™ X701 Walk Up Cabinet (WUC)

Description

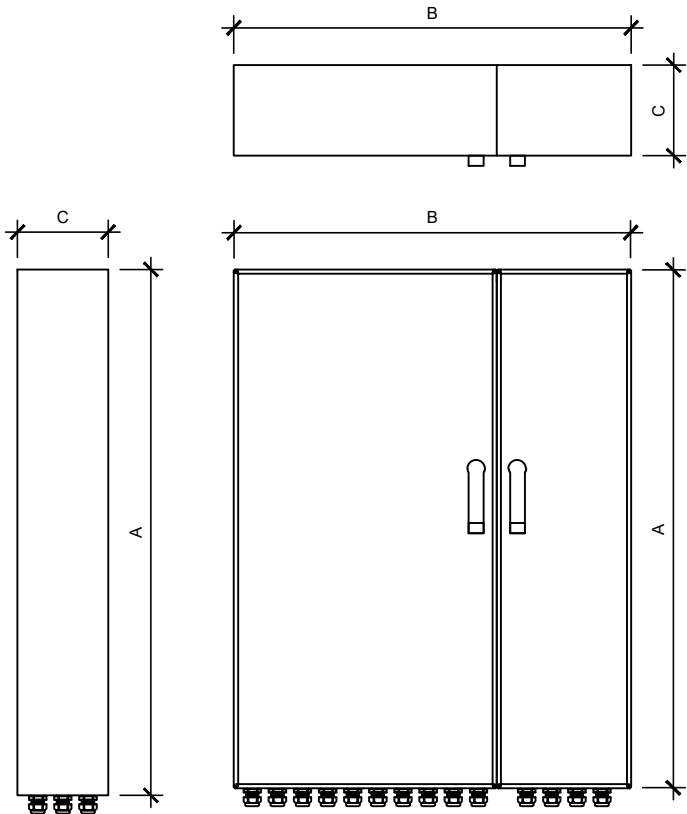
The Vertiv™ NetSure™ X701 provides room for power, batteries, and other sensitive equipment in a single convenient outdoor enclosure. Its aluminum construction provides protection from both vandalism and harsh environmental conditions while still standing up to high winds and seismic events. With up to 15kW of heat dissipation available, the NetSure™ X701 outdoor enclosure is designed to handle ever-increasing heat load requirements at your base station and network edge sites.

- UL 2416 Certified
- Factory-integrated Vertiv™ NetSure™ 512 DC power system supports -48V and -58V DC load requirements
- Battery trays for (3) strings of VRLA batteries up to 210Ah each
- Up to 74RU of available equipment space
- Convenient cable entry and management throughout the enclosure



Technical Specifications

Enclosure		
Two-Bay	Dimensions (H x W x D)	86" x 68" x 54"
	Weight	1300 lbs.
	Equipment Space	43 RU available
	Color	Cool White
	Cabinet Access	Front door and rear panels
	Security	All handles can accommodate padlock
Three-Bay	Dimensions (H x W x D)	74" x 102" x 54"
	Weight	1650 lbs.
	Equipment Space	76 RU available
	Color	Cool White
	Cabinet Access	Front door and rear panels
	Security	All handles can accommodate padlock
Mounting		
Mounting Options	Pad; Platform	
Racks	Adjustable 19" to 23" racks in each equipment chamber	
Electrical		
Input/Output Voltage	208/240VAC single-phase input; -48VDC primary/-58VDC secondary output	
Maximum Input Current	N/A (Generally used w/ customer-provided service entrance transfer switch, generally 200A)	
Environmental		
Operating Temperature	-40°C to 46°C	
Relative Humidity	0% to 95% non-condensing	
Thermal Solutions		
Heat Exchanger	6000 watts in each equipment chamber, 2800 watts in power chamber	
Equipment Chamber		
DC Power	Factory-integrated NetSure 512 system	
AC Outlet	GFI	
Grounding	Ground bar in each chamber	
Standards Compliance		
Safety	UL 2416	
Environment	Designed for Telcordia GR-487	



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC50-48-60-96-50F	52.24"	40.0"	9.0"	165.0

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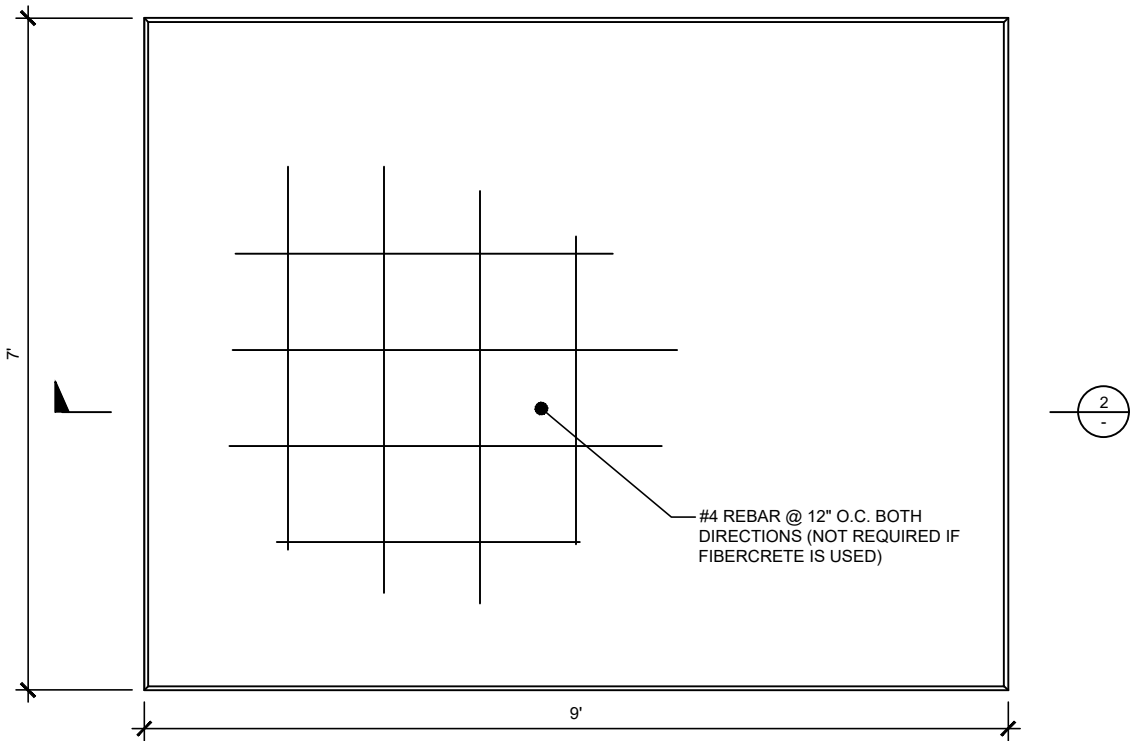
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GROUND EQUIPMENT
SPECIFICATIONS

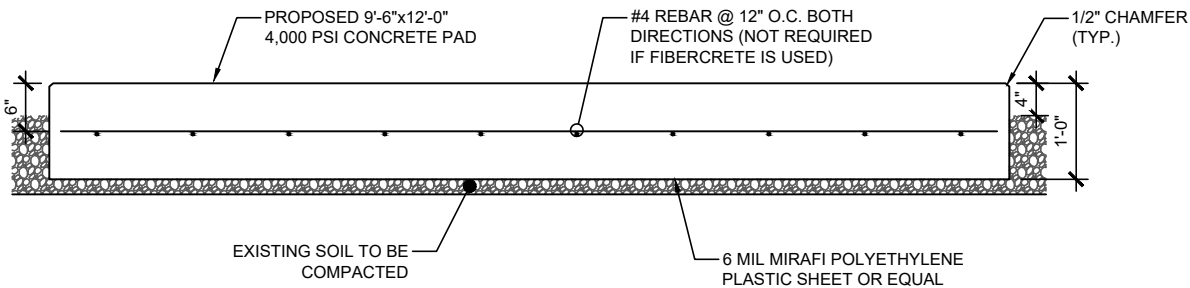
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C-4.0.1



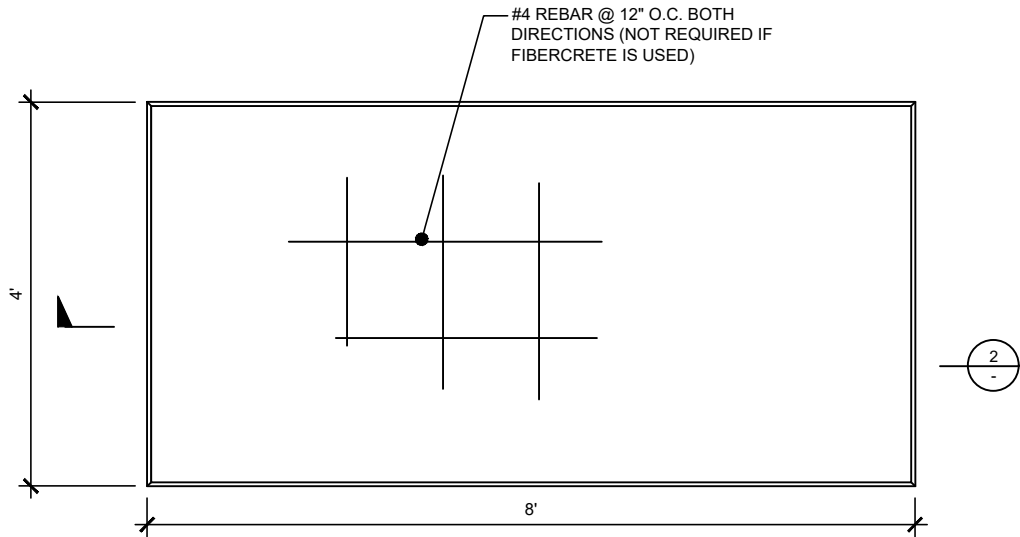
1 EQUIPMENT FOUNDATION PLAN
SCALE: NOT TO SCALE

NOTE:
1. CONTRACTOR TO VERIFY WUC
SPECIFICATIONS/LOADING WITH
MANUFACTURER PRIOR TO CONSTRUCTION.



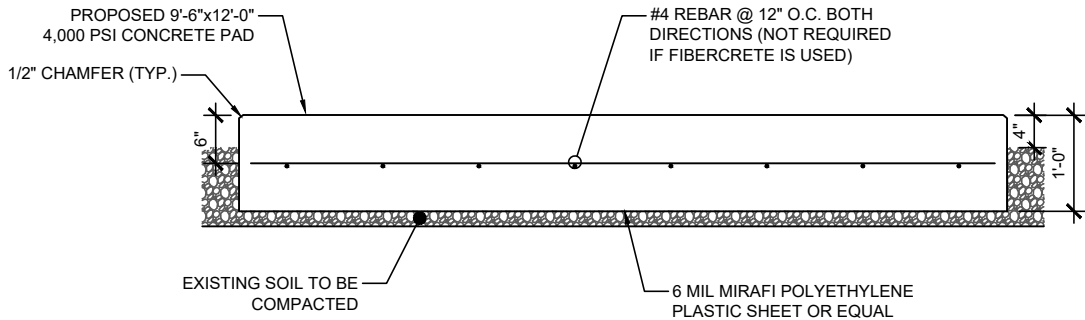
NOTE:
1. CHOICE OF FIBERCRETE OR CONCRETE PAD TO BE MADE IN THE FIELD BY AT&T
CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

3 EQUIPMENT FOUNDATION SECTION
SCALE: NOT TO SCALE



2 GENERATOR FOUNDATION PLAN
SCALE: NOT TO SCALE

NOTE:
1. CONTRACTOR TO VERIFY GENERATOR
SPECIFICATIONS/LOADING WITH
MANUFACTURER PRIOR TO CONSTRUCTION.



NOTE:
1. CHOICE OF FIBERCRETE OR CONCRETE PAD TO BE MADE IN THE FIELD BY AT&T
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4 GENERATOR FOUNDATION SECTION
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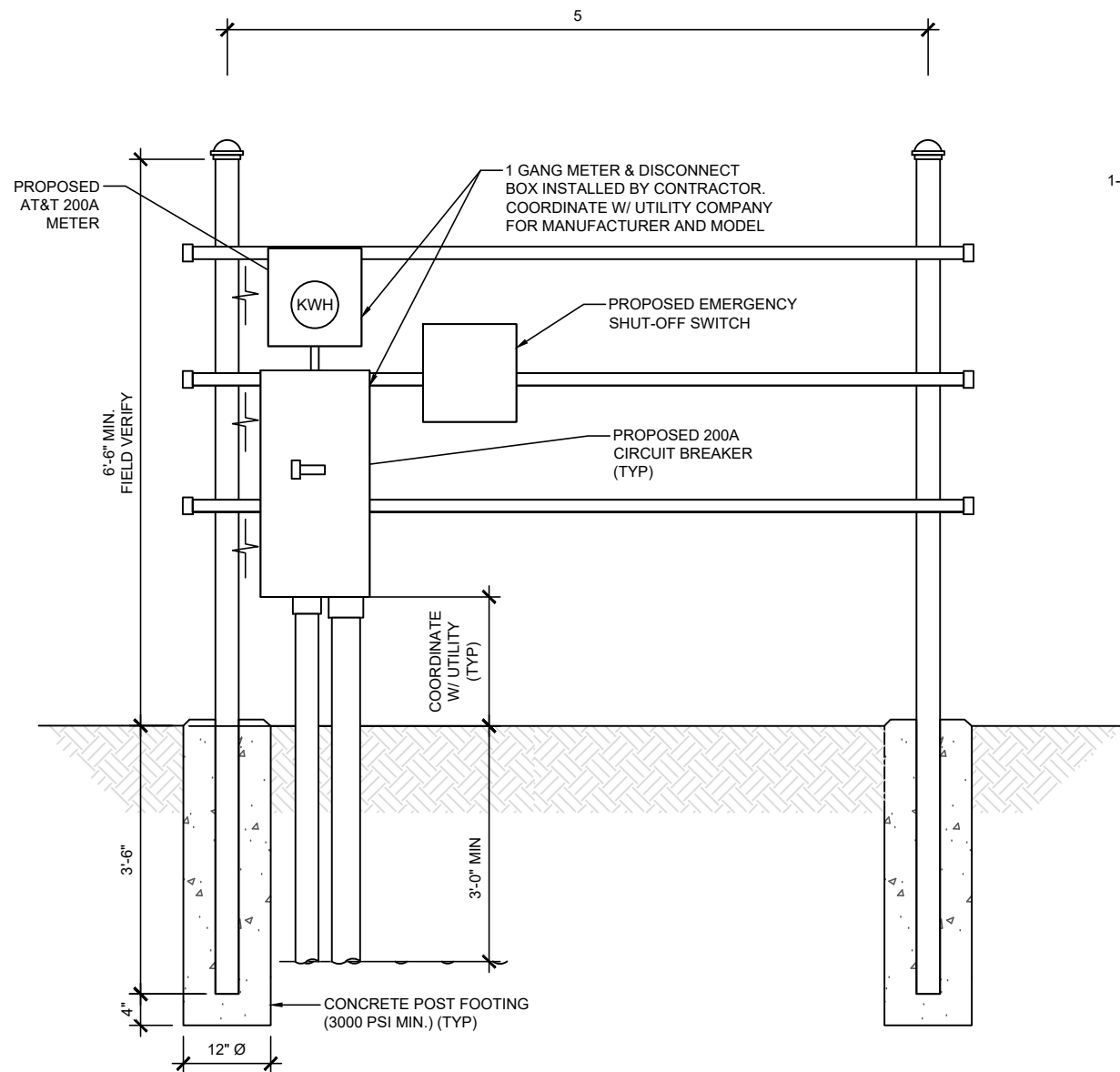
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FOUNDATION DETAILS

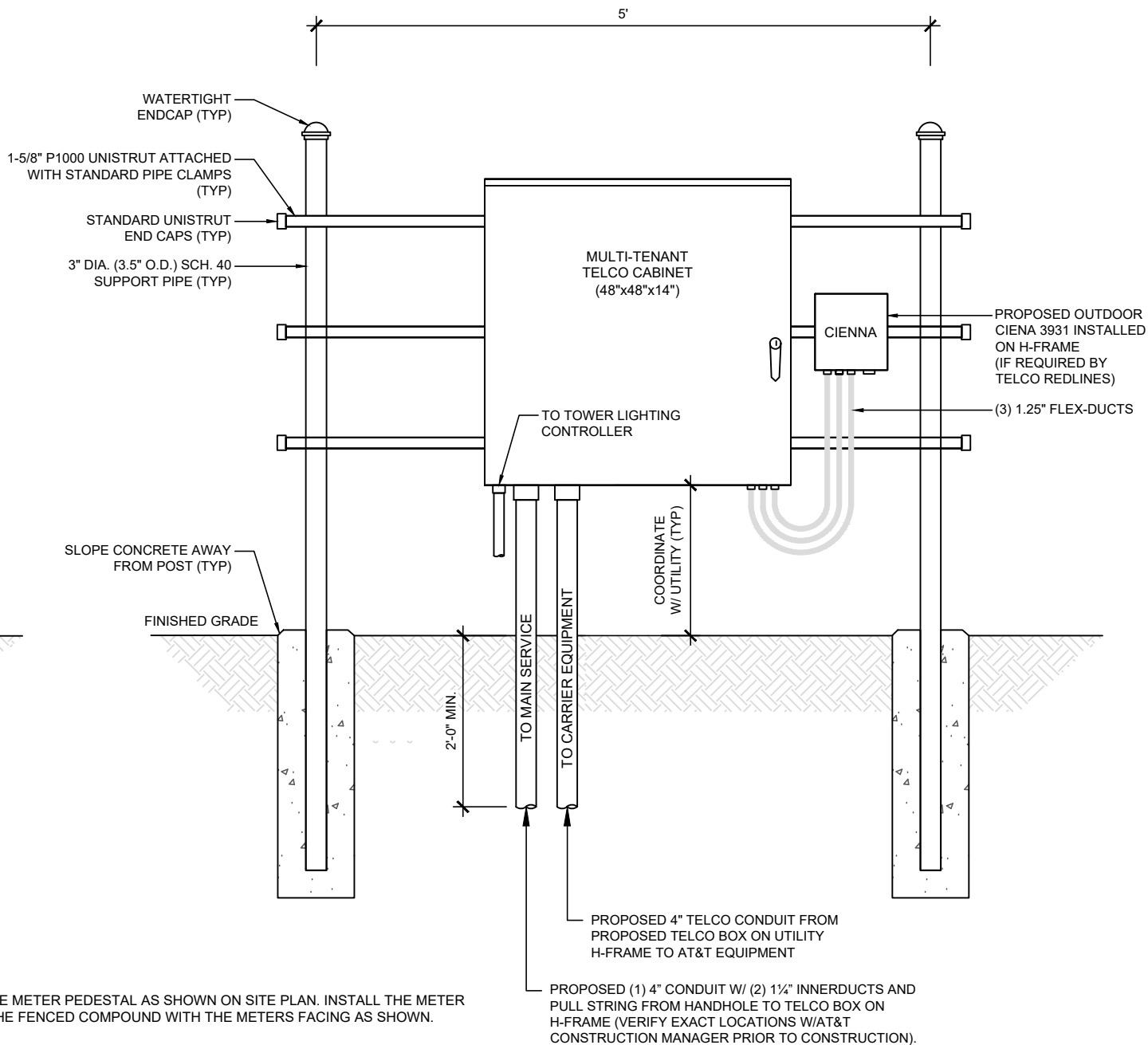
SHEET NUMBER:

C-4.2



NOTES:

1. CONTRACTOR SHALL FIELD LOCATE THE METER PEDESTAL AS SHOWN ON SITE PLAN. INSTALL THE METER PEDESTAL NEAR THE PERIMETER OF THE FENCED COMPOUND WITH THE METERS FACING AS SHOWN.
2. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE CONDUIT RUN TO THE MAIN SERVICE CONNECTION OR TRANSFORMER.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GROUND ROD REQUIREMENTS. IF REQUIRED, THE CONTRACTOR SHALL ORDER AND PAY FOR NECESSARY GROUND TESTS.
4. SUPPORT POST AND UNISTRUT SHALL BE GALVANIZED. PIPE CLAMPS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
5. TELCO CABINET SHALL BE 48"x48"x12" HOFFMAN OR EQUIVALENT. PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE THE MULTI-TENANT TELCO CABINET.
6. ADJUSTMENTS TO THE METER PEDESTAL DESIGN MAY BE REQUIRED DEPENDING ON THE EXACT METER PANEL INSTALLED. CONTRACTOR SHALL FIELD COORDINATE ADJUSTMENTS AND INFORM THE ENGINEER IF ANY UNUSUAL CONDITIONS ARE FOUND TO EXIST.



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H-FRAME DETAILS

SHEET NUMBER:

C-4.3

SMW JOB #24-5408

ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR CAPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.

15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
18. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
21. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS
24. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
28. THE SUBCONTRACTOR SHALL LABEL THE METER BASE PER LOCAL UTILITY REQUIREMENTS.



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ELECTRICAL NOTES

SHEET NUMBER:

E-1

SNW JOB #24-5408

PROPOSED 120/240V, 200A.
AT&T UTILITY METER TO
BE INSTALLED UTILITY COMPANY

PROPOSED 120/240V,
200A. BREAKER

2P-200

3#3/O, 1#4G - 2"C

200A, 1Ø, 240V NEMA 3R FUSIBLE DISCONNECT
W/200A, 22K AIC FUSES

#4G, ¾"C

200A, INTEGRATED
LOAD CENTER

AUTOMATIC
TRANSFER
SWITCH (ATS)
(SEE NOTE 5)

200A, 1Ø, 42-POSITIONS
PANEL (SEE NOTE 5)

DC POWER PLANT

-48V BUS

PRIMARY LOAD CENTER

(3) #3/O, 1#4G - 2"C FOR
POWER

AT&T COMPACT GENERATOR
INTERFACE PANEL (SEE NOTE 1)

SEE NOTES 3 AND 4

GEN

2P-100A

NOTE:
GENERATOR COMES PRE WIRED FROM FACTORY.
REFER TO OWNERS MANUAL FOR SPECIFICATIONS

PROPOSED (3) #14 IN 1"Ø CONDUIT FOR ALARM
WIRING, ANNUNCIATOR DC POWER WIRING,
E-STOP WIRING & REMOTE START/UTILITY FAIL

PROPOSED (6) #10 IN 1"Ø CONDUIT FOR
BATTERY CHARGER AND BLOCK HEATER

66-BLOCK (ALARM BLOCK)

PROPOSED 1"Ø CONDUIT FOR
EMERGENCY SHUT-OFF SWITCH

PROPOSED EMERGENCY
SHUT-OFF SWITCH

NOTES:

1. PROVIDE ARC FLASH WARNING LABELS ON ALL PANELS PER NEC 110.16 AND IN ACCORDANCE WITH SHEET E1.
2. PROVIDE EQUIPMENT IDENTIFICATION LABELS PER NEC 225.37 AND IN ACCORDANCE WITH SHEET E1.
3. CB-N AND CB-E1 ARE 2P-200A MAIN BREAKERS.
4. CB-E1 IS MECHANICALLY INTERLOCKED.
5. POWER TRANSFER LOAD CENTER (PTLC) INCLUDES A CAM-LOC GENERATOR CONNECTION PANEL, AN ATS, A MECHANICALLY INTERLOCKED TRANSFER SWITCH, A 200A 42-POS PANEL AND SURGE SUPPRESSION.
6. ALL ITEMS IN NOTE 5 ARE PRE-WIRED BY MANUFACTURER.



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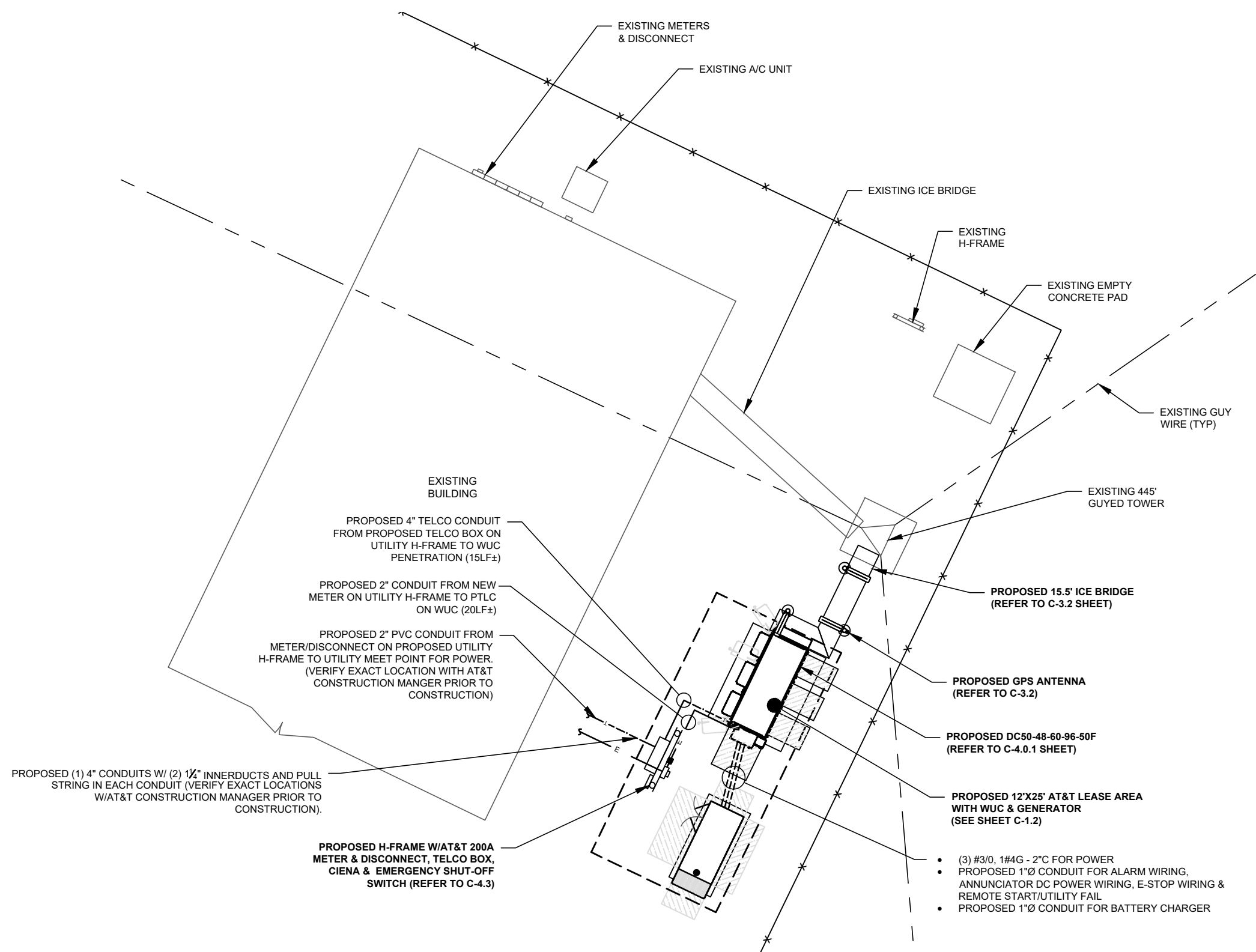
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ELECTRICAL SPECS,
DETAILS & METER CENTER

SHEET NUMBER:

E-1.1

SMW JOB #24-5408



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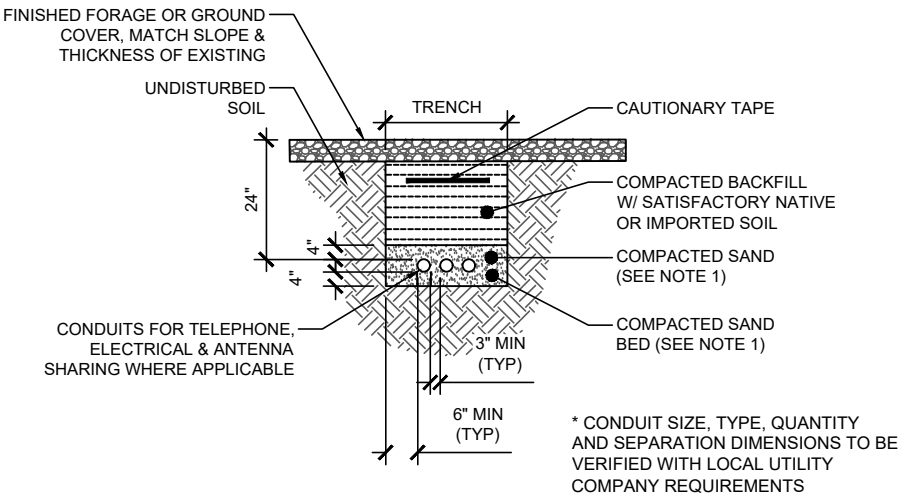
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UTILITY SITE PLAN

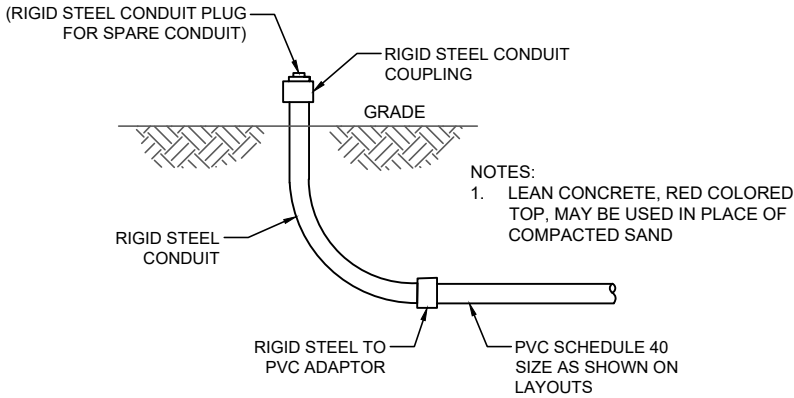
SHEET NUMBER:
E-2



SMW JOB #24-5408



1 DIRECT BURIED CONDUIT
SCALE: NOT TO SCALE



2 UNDERGROUND CONDUIT STUB-UP
SCALE: NOT TO SCALE

- 24W X 36L X 24 D POLYMER CONCRETE WITH TIER 15/22 RATED LIDS AND LABEL AS "TELECOMMUNICATIONS"
- THE BOTTOM OF THE HAND HOLE SHOULD BE LINED WITH 2 INCHES OF CLEAN # 57 GRAVEL
- THE CONDUIT SHOULD ENTER AT A 45-DEGREE ANGLE AND BE 3 INCHES FROM THE TOP OF THE GRAVEL, PROVIDING AT LEAST 18 INCHES OF CLEARANCE TO THE BOTTOM OF THE LID.
- SITES BUILT FOR AT&T OR OTHER CARRIERS (1) HH SHOULD BE STENCILED TILLMAN WITH 3-INCH LETTERS AND THE OTHER STENCILED "FUTURE WITH 3-INCH LETTERS.

3 HAND HOLE STANDARDS



AT&T FA
15743282
SITE NAME
CLAY HOLE CREEK
CROWN CASTLE SITE NUMBER
870209
SITE ADDRESS
4604 SOUTHWEST STATE ROAD 47
LAKE CITY , FL 32055

ISSUED FOR:			
REV	DESCRIPTION	BY	DATE
A	CLIENT REVIEW	DAJ	04/08/25
B	PERMITTING	ZDS	05/27/25

CA# 33693

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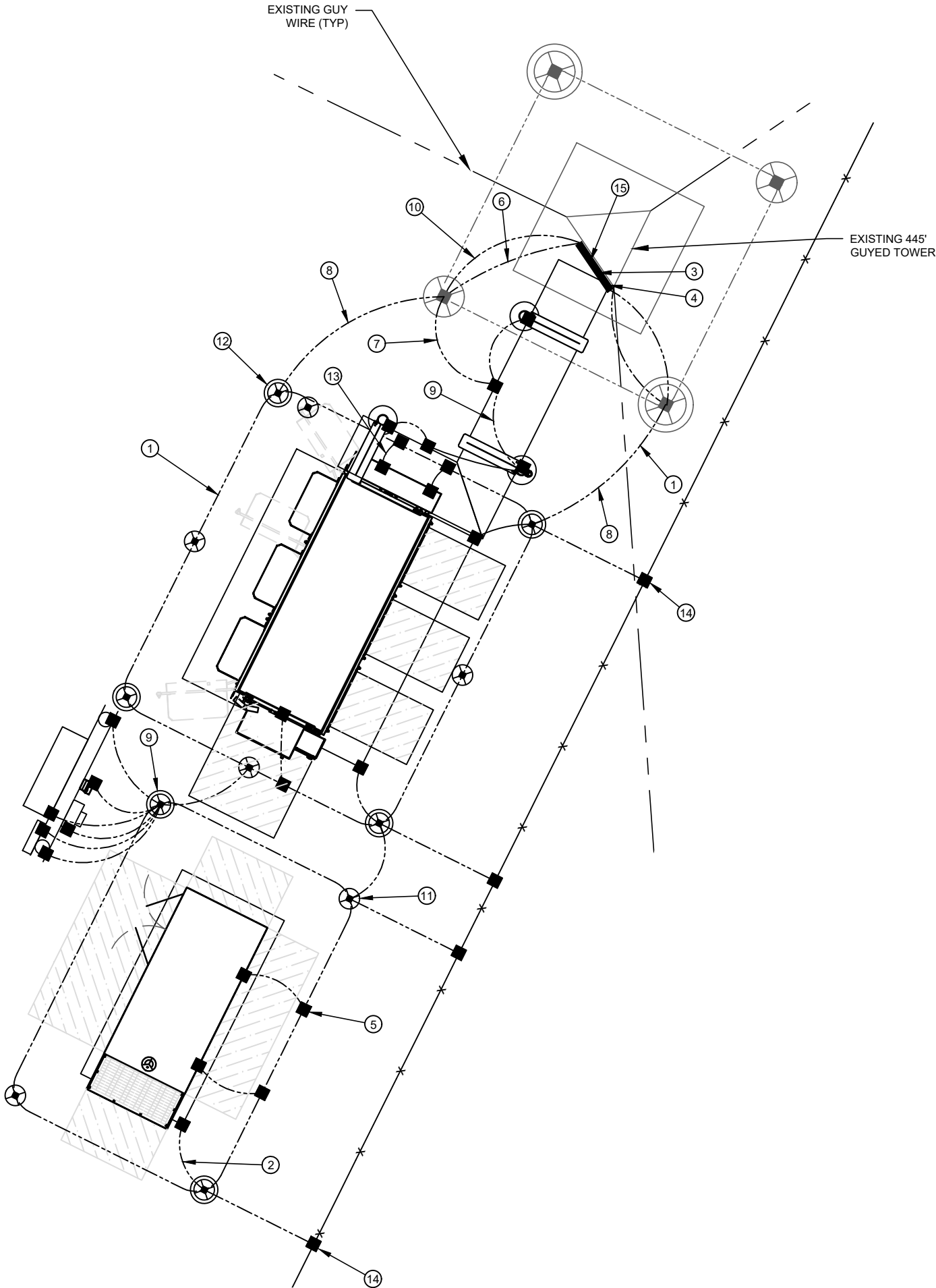
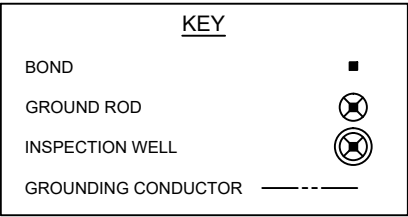
ELECTRICAL DETAILS

SHEET NUMBER:

E-3

GROUNDING KEY NOTES:

1. PROVIDE A #2 AWG SOLID BARE TINNED COPPER GROUND RING AROUND THE EQUIPMENT AS SHOWN. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 30" BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1'-0" AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
2. BOND REBAR IN CONCRETE PAD TO THE BURIED GROUND RING. EXOTHERMICALLY WELD #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO THE REBAR (AT THE END OF THE REBAR) AND CONNECT TO THE BURIED GROUND RING.
3. MASTER GROUND BAR.
4. TOWER MOUNTED GROUND BAR.
5. BOND GENERATOR CASE TO GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
6. BOND INSULATED/SOLID COAX GROUND KIT TO TOWER GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
7. BOND TO ANY METAL WITHIN 10' OF PROPOSED GROUND RING W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
8. BOND EQUIPMENT GROUND RING TO TOWER GROUND RING. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 30" BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1'-0" AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
9. BOND ICE BRIDGE AND H-FRAME POSTS TO BURIED GROUND RING. EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO EACH POST AT 12" ABOVE GRADE AND CONNECT TO THE BURIED GROUND RING. PROVIDE CONDUCTOR LENGTH AS REQUIRED TO MAKE CONNECTION.
10. INSTALL GROUNDING CONDUCTOR(S) FROM THE BURIED GROUND RING FOR CONNECTION TO THE GROUND BAR AT BOTTOM OF TOWER. VERIFY EXACT LOCATION OF GROUNDING BAR AND PROPER CONDUCTOR LENGTH. EXOTHERMICALLY WELD (2) #2 AWG SOLID BARE TINNED COPPER GROUNDING CONDUCTOR (LENGTH AS REQUIRED) TO THE GROUND BAR. GROUNDING CONDUCTORS MUST BE HELD AWAY FROM TOWER BY USING STANDOFFS OR ROUTING THE CONDUCTORS IN FLEXIBLE PVC CONDUIT.
11. INSTALL 5/8" x 10' LONG COPPER CLAD STEEL GROUND RODS. SPACING BETWEEN RODS MINIMUM OF 10' AND NO MORE THAN 16' (NONLINEAR). TYPICAL FOR ALL GROUND RODS SHOWN, UNLESS NOTED OTHERWISE. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET G-2.1. IF ROCK IS ENCOUNTERED, GROUND ROD MAY BE INSTALLED WITH A MAXIMUM VARIATION OF 30° FROM VERTICAL AND CONTRACTOR SHALL BE PREPARED TO CORE DRILL TO INSTALL GROUND RODS AND BACKFILL WITH GROUND ENHANCEMENT MATERIAL.
12. PROVIDE 8" DIAMETER PVC INSPECTION SLEEVE WITH REMOVABLE COVER IN LOCATION SHOWN. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET G-2.1, FOR TYPICAL GROUND RING INSPECTION SLEEVE. NOTE: INSPECTION SLEEVE CAN BE USED AS A TEST WELL FOR GROUND WATER LEVEL INSPECTION AND GROUND RESISTANCE TESTING.
13. BOND GROUND RING TO EQUIPMENT CASES W/#2 AWG SOLID BARE TINNED COPPER CONDUCTOR.
14. BOND GROUND RING TO FENCE POST, EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR INSTALLED IN A (3/4" DIA) X (18" LONG) LIQUID TIGHT CONDUIT RUNNING AT LEAST 6" ABOVE AND BELOW GRADE AND CAULKED WITH SILICONE BASED SEALANT.
15. RAD CENTER GROUND BAR TO BE MOUNTED TO TOWER WITHOUT INSULATORS.



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GROUNDING SITE PLAN

SHEET NUMBER:

G-1



SMW JOB #24-5408

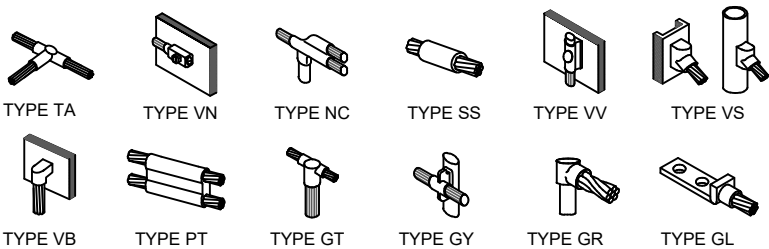
- GROUNDING NOTES:**
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
 - ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
 - ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
 - GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
 - GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
 - GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
 - ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
 - INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
 - REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
 - THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
 - IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
 - EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
 - CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON WIRELESS CONSTRUCTION MANAGER.
 - ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
 - PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
 - ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A AT&T REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
 - WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN LIQUID TIGHT CONDUIT 6-8" ABOVE GRADE/GRAVEL AND RUN TO AT LEAST 6-8" BELOW GRADE WITH A TOTAL LENGTH OF 14-18".
 - PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
 - ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

- CABLE COLOR CODING NOTES:**
- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
 - THE ANTENNA SYSTEM CABLES SHALL BE LABELED WITH VINYL TAPE EXCEPT IN LOCATIONS WHERE ENVIRONMENTAL CONDITIONS CAUSE PHYSICAL DAMAGE, THEN PHYSICAL TAGS ARE PREFERRED.
 - THE STANDARD IS BASED ON EIGHT COLORED TAPES - RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE & VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR SUBCONTRACTOR ON SITE.
 - USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLES BY SECTOR AND NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
 - WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN GSM/3G AND IS-136 TDMA IS ENCOUNTERED, THE SUBCONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING AND TAGGING STANDARD THAT IS OUTLINED IN THE CURRENT VERSION OF ND-00027. IN THE ABSENCE OF AN EXISTING COLOR CODING TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
 - ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE A MINIMUM OR (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
 - ALL COLOR BANDS INSTALLED AT THE TOP OF TOWER SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE IN BETWEEN EACH COLOR.
 - ALL COLOR CODES SHALL BE INSTALLED AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE TO SIDE.
 - IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE GSM TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

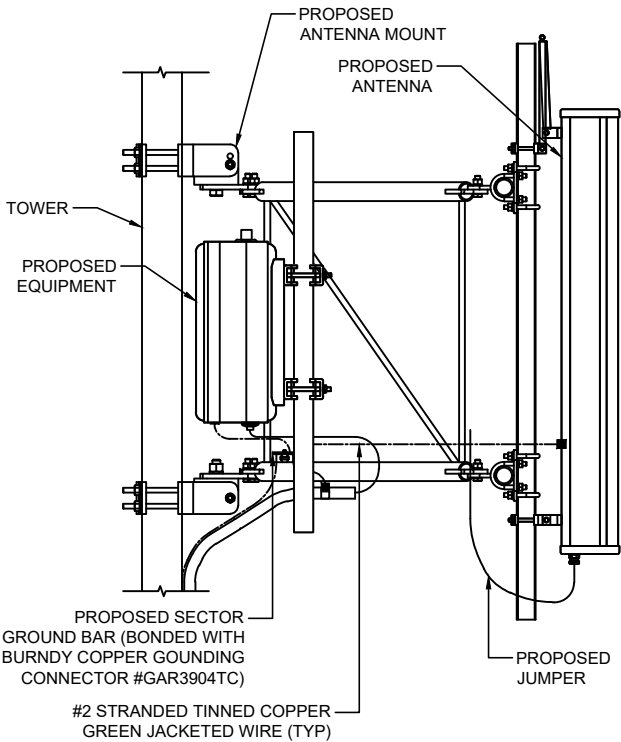
CABLE MARKING TAGS:

WHEN USING THE ALTERNATIVE LABELING METHOD, EACH RF CABLE SHALL BE IDENTIFIED WITH A METAL ID TAG MADE OF STAINLESS STEEL OR BRASS. THE TAG SHALL BE 1-1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS INDICATION THE SECTOR, ANTENNA POSITION AND CABLE NUMBER. ID MARKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSION PROOF WIRE AROUND THE CABLE AT THE SAME LOCATION AS DEFINED ABOVE. THE TAG SHOULD BE LABELED AS SHOWN ON THE "GSM AND UMTS LINE TAG" DETAIL.

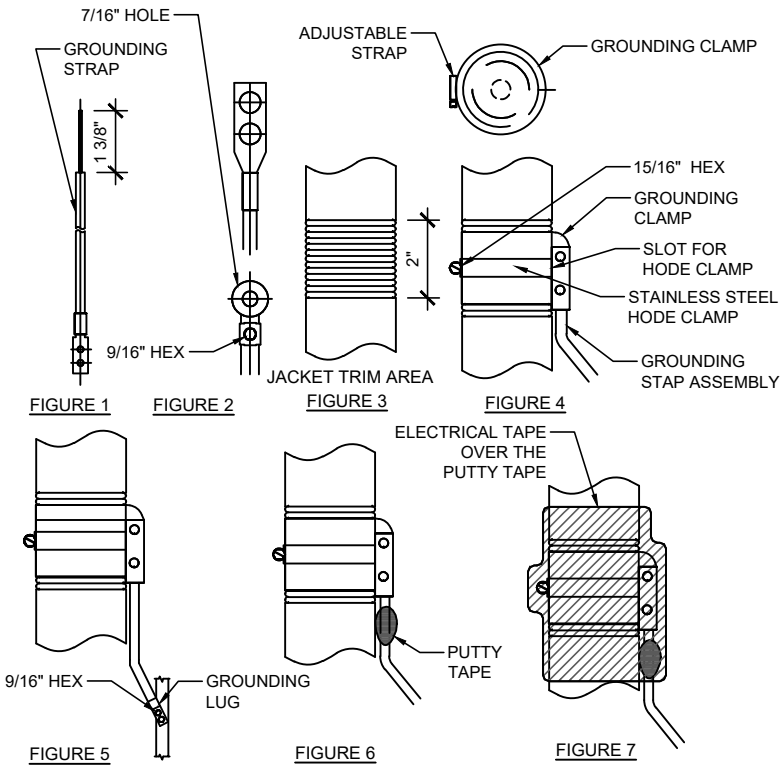
CABLE MARKING LOCATIONS TABLE	
NO.	LOCATIONS
①	EACH JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
②	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS AT THE TOP JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS PRIOR TO ENTERING THE BTS OR SHELTER.
③	CABLE ENTRY PORT ON THE INTERIOR OF SHELTER.
④	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
⑤	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.



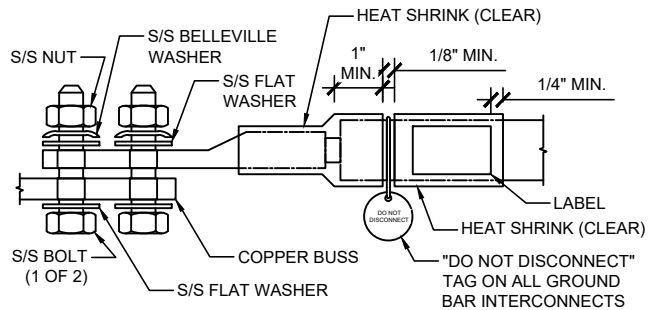
① CADWELD GROUNDING CONNECTION DETAILS
SCALE: NOT TO SCALE



② ANTENNA & CABLE GROUNDING
SCALE: NOT TO SCALE

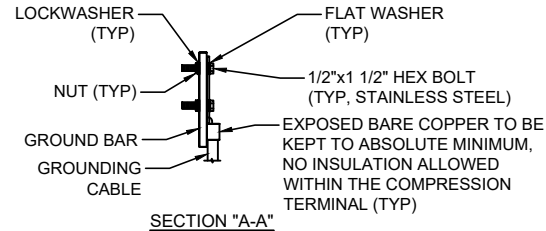
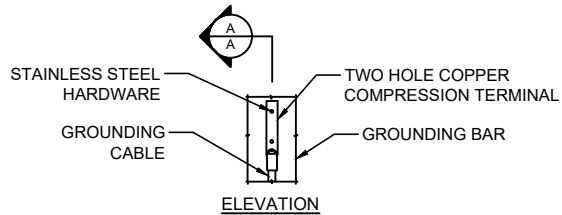


④ GROUNDING STRAP WEATHERPROOFING DETAIL
SCALE: NOT TO SCALE



- NOTES:**
- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.
 - FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND.
 - COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.

③ GENERAL LUG DETAIL
SCALE: NOT TO SCALE



- NOTE:**
- "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

⑤ TYP GROUND BAR CONNECTION DETAIL
SCALE: NOT TO SCALE



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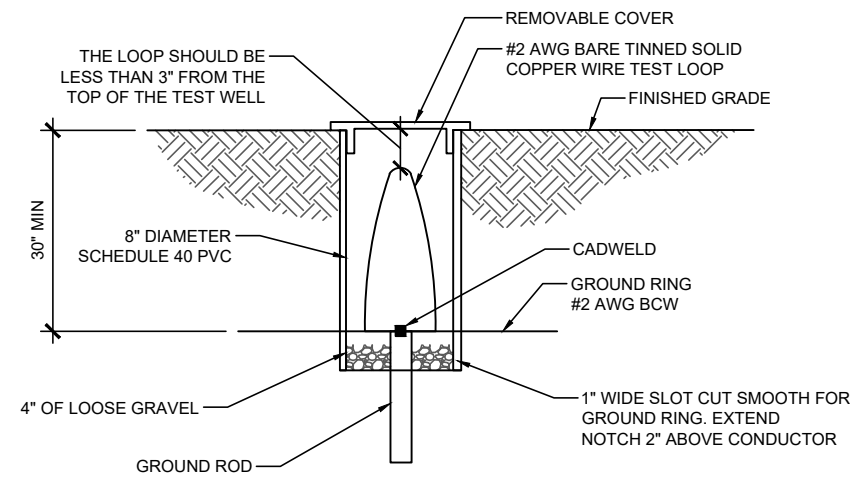
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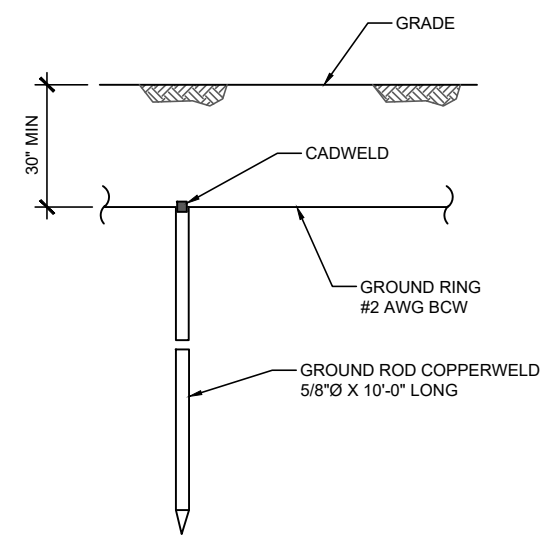
GROUNDING DETAILS & NOTES

SHEET NUMBER:

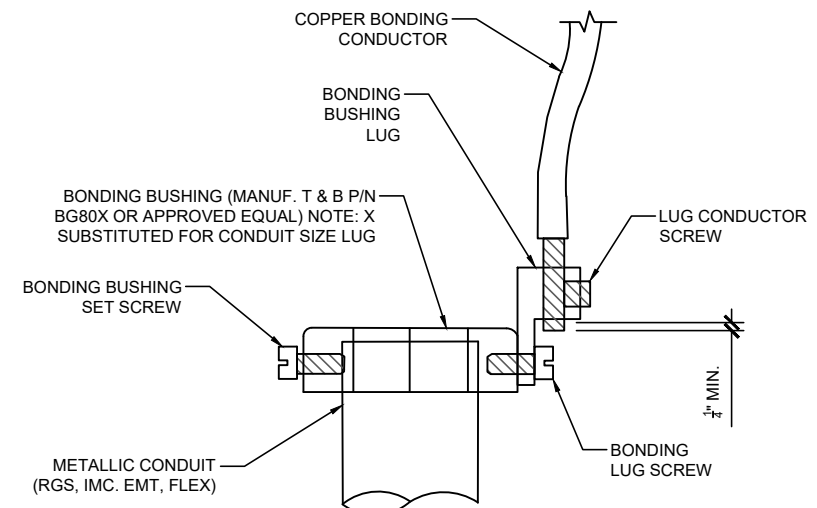
G-2



1 8" GROUND ROD INSPECTION WELL
SCALE: NOT TO SCALE



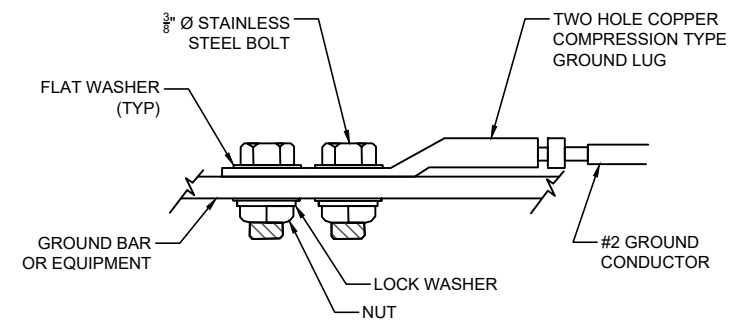
2 GROUND ROD DETAIL
SCALE: NOT TO SCALE



DIRECTIONS:
1. MOUNT BONDING BUSHING INTO CONDUIT
2. TIGHTEN BOND BUSHING SET SCREW
3. INSERT COPPER CONDUCTOR INTO LUG
4. TIGHTEN LUG CONDUCTOR SCREW
5. TIGHTEN BONDING LUG SCREW

NOTE: BONDING BUSHING, SET SCREW, LUG, LUG SCREW, CONDUCTORS, LUG SCREW SHOWN AS COMPLETE UNIT

3 CONDUIT BOND/GROUND BUSHING
SCALE: NOT TO SCALE



4 MECHANICAL GROUND CONNECTION
SCALE: NOT TO SCALE



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SHEET NUMBER:
G-2.1

SMW JOB #24-5408