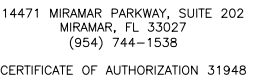


FIXED ASSET: 10579357

PROJECTS: WSTFL0019862 & WSTFL0038611

NEW SITE BUILD

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# VICINITY MAP

The vicinity map shows the project location in Wilburn, Florida. The map includes Lake City, Watertown, and Wilburn. Key landmarks include Alligator Lake Park, Florida Gateway College, Olustee Creek Conservation Area, Hopeful Baptist Church, and Ebenezer Cemetery. The project location is marked with a red pin and labeled "SITE LOCATION". The map also shows major roads such as US-90, US-41, and US-29, as well as local roads like SR-245A and SR-241. A compass rose is located in the top left corner, and a scale bar is in the bottom left corner.

DESIGN BASED ON RFDS 28504 DATED 10/08/24. CONTRACTOR SHALL REQUEST CURRENT RFDS AND CURRENT WORKBOOK FROM MASTEC NETWORK SOLUTIONS CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

1. THE WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANCY.
2. THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE.
3. 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.
4. THE SCOPE OF WORK CONSISTS OF:  
  
INSTALLATION OF (8) PROPOSED ANTENNAS  
INSTALLATION OF (4) PROPOSED ANTENNA MOUNTS  
INSTALLATION OF (12) PROPOSED RRUS  
INSTALLATION OF (5) PROPOSED SURGE SUPPRESSORS  
INSTALLATION OF (1) PROPOSED EQUIPMENT CABINET  
INSTALLATION OF (1) PROPOSED 20kW AC DIESEL GENERATOR  
INSTALLATION OF (4) PROPOSED FIBER TRUNK CABLES  
INSTALLATION OF (4) PROPOSED DC TRUNK CABLES

ALL WORK AND MATERIALS SHALL BE PERFORMED AND 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.

1. FLORIDA BUILDING CODE, 8th EDITION (2023).
2. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70-20, NATIONAL ELECTRIC CODE, 2020 EDITION.
3. ASCE 7-22.
4. TIA-222-H WITH APPLICABLE STANDARDS.
5. LIFE SAFETY CODE NFPA-101-2021.
6. FLORIDA FIRE PREVENTION CODE, 8th EDITION (2023).
7. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360-16 AND 341-16.
8. UNDERWRITERS LABORATORIES (U.L.) APPROVED ELECTRICAL PRODUCTS.
9. LOCAL JURISDICTIONAL REQUIREMENTS.
10. CITY/COUNTY ORDINANCES.

GENERAL NOTES	1	1. FOR THE PURPOSES OF THESE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY: OWNER – AT&T MOBILITY ENGINEER – APX ENGINEERING GROUP, LLC. CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION) 2. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE JOB SITE IN ORDER TO (1) VERIFY ALL EXISTING CONDITIONS, (2) CONFIRM WHETHER ALL DIMENSIONS ARE AS SHOWN ON THE PLANS AND (3) CONFIRM WHETHER THE WORK MAY BE ACCOMPLISHED AS SHOWN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER. 3. A 20 FOOT HORIZONTAL CLEARANCE DISTANCE SHALL BE MAINTAINED FROM ALL EXISTING POWER LINES. 4. THE CONTRACTOR’S USE OF A CONSTRUCTION STAGING AREA SHALL BE COORDINATED WITH THE OWNER WELL IN ADVANCE OF THE CONSTRUCTION START DATE. 5. LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION AND TEMPORARY POWER SERVICES NECESSARY FOR AND INCIDENTAL TO COMPLETION OF ALL WORK SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN. LABOR AND MATERIALS SHALL BE FURNISHED AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL ELEMENTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS. 6. FOR TASKS REQUIRED TO BE PERFORMED BUT NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOT START WORK ON SUCH TASKS WITHOUT HAVING RECEIVED WRITTEN AUTHORIZATION FROM THE CONSTRUCTION MANAGER TO PROCEED. 7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE INDICATED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS MAY BE MODIFIED AS REQUIRED BY ACTUAL FIELD CONDITIONS. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER AND THE CONSTRUCTION MANAGER. 8. THE CONTRACTOR SHALL OBTAIN, PAY FOR AND DELIVER ALL REQUIRED PERMITS, CERTIFICATES OF INSPECTION, INCLUDING UTILITY CONNECTION FEES, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL DELIVER SUCH DOCUMENTS TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK. 9. THE CONTRACTOR’S OPERATIONS SHALL BE CONFINED TO AREAS OF NEW CONSTRUCTION. 10. ALL NECESSARY PROVISIONS SHALL BE MADE TO PROTECT EXISTING IMPROVEMENTS, LANDSCAPING, PAVING, CURBS, GALVANIZED SURFACES, ETC, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAME RESULTING FROM THE CONSTRUCTION WORK. ALL DISTURBED AND DAMAGED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UPON COMPLETION OF ALL WORK TO THE SATISFACTION OF THE CONSTRUCTION MANAGER. 11. THE FOLLOWING CLEANUP TASKS SHALL BE PERFORMED AS FOLLOWS: (1) ON A DAILY BASIS, KEEP THE GENERAL AREA CLEAN AND HAZARD FREE, REMOVING ALL WASTE, DEBRIS AND TRASH FROM THE SITE AND DISPOSING OF SAME IN A LEGAL MANNER. (2) UPON COMPLETION, LEAVE THE PREMISES IN A CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. 12. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER’S RECOMMENDATIONS EXCEPT WHERE IT IS SPECIFICALLY INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE. 13. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION OVER THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AS WELL AS LOCAL AND STATE CODES, ORDINANCES AND APPLICABLE REGULATIONS. 14. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AT ALL TIMES, USING THE BEST SKILLS AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL OF THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK, INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE OWNER’S AUTHORIZED REPRESENTATIVE. 15. WITHIN TEN WORKING DAYS AFTER PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS–BUILT DRAWINGS, SWEEP TEST, CYLINDER TESTS, LIEN RELEASES, AND OTHER CLOSEOUT DOCUMENTATION AS REQUIRED BY THE OWNER. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED, TESTED, ADJUSTED AND DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO THE OWNER’S ACCEPTANCE.

GENERATOR NOTES	3	1. THE APPROPRIATE UTILITY LOCATING SERVICES SHALL BE CONTACTED PRIOR TO THE START OF CONSTRUCTION IN ORDER TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. 2. THE INSTALLATION OF NEW UTILITIES SHALL BE COORDINATED WITH LOCAL AUTHORITIES. 3. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SUCH UTILITIES SHALL BE RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. EXTREME CAUTION SHALL BE USED WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. 4. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. 5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES THAT INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS THAT WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE LANDLORD AND/OR LOCAL UTILITIES. 6. DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION SHALL BE MINIMIZED. 7. ANY AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE. SUCH GRADING SHALL CAUSE SURFACE WATER TO FLOW AWAY FROM ANY EQUIPMENT SHELTER AND TOWER AREAS AND THE SOIL SHALL BE STABILIZED TO PREVENT EROSION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL. 8. THE SUB–GRADE SHALL BE COMPACTED AND BROUGHT TO A UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION. 9. BACKFILL SHALL CONSIST OF CLEAN SAND FILL APPROVED FOR USE BY THE ENGINEER. NO UNAPPROVED MATERIAL WILL BE ALLOWED. CLEAN SAND FILL SHALL BE FREE OF ALL ROOTS, BOULDERS, OR OTHER DELETERIOUS MATERIAL. 10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL TO OR BETTER CONDITION THAN ORIGINAL. 11. SITE SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR SUCH SIGNAGE AS MAY BE CONTAINED IN THESE DRAWINGS.

SITE WORK NOTES

1. GENERATOR SHALL COMPLY WITH ALL OF THE REQUIREMENT OF NFPA 110.
2. GENERATOR: CLASS X (USER DEFINED)  
TYPE 60  
LEVEL 2
3. EXISTING SITE IS UNMANNED. ALL GENERATOR CONDITIONS ARE MONITORED REMOTELY FROM AT&T’S CENTRAL OFFICE. MONITORED CONDITIONS ARE AS FOLLOWS:  

ENGINE RUN  
ENGINE STOP  
LOW FUEL

REV	DATE	DESCRIPTION
A	7/15/24	PRELIMINARY
B	11/4/24	REVISED
0	11/11/24	FOR PERMIT
APX PROJECT NO.:		24–0362.04
DRAWN BY:		A. WARREN
CHECKED BY:		M. ABBEY

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MIRAMAR, FL 33027  
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SHEET NAME  
  
GENERAL NOTES

SHEET NUMBER  
  
T2

1. ALL CONCRETE SHALL BE 4,000 PSI MIN. AFTER 28 DAYS AND ALL WORK SHALL CONFORM TO ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND TO THE PROJECT SPECIFICATIONS.
2. READY–MIX CONCRETE SUPPLIERS SHALL BE NRMCA–CERTIFIED.
3. ALL CONCRETE SHALL BE NORMAL DENSITY CONCRETE WITH A MAXIMUM SLUMP OF 4 INCHES AND A MAXIMUM AGGREGATE SIZE OF 3/4 INCH.
4. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
5. DO NOT USE CHLORIDE–CONTAINING ADMIXTURES.
6. HOT WEATHER CONCRETE: COMPLY WITH ACI 305R.
7. REINFORCING OF ALL CONCRETE MEMBERS SHALL HAVE THE FOLLOWING CLEAR CONCRETE COVER:

INCHES	
3	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
2 1–1/2	CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS #5 BAR OR SMALLER
1–1/2 1 1–1/2	CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS AND WALLS #14 AND #18 BARS #11 BAR AND SMALLER COLUMNS PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS

8. UNLESS OTHERWISE NOTED, PROVIDE A MINIMUM BEARING LENGTH OF 4 INCHES FOR ALL REINFORCED CONCRETE SLABS.
9. PROVIDE CHAMFERS, REVEALS, REGLETS, RECESSES AND THE LIKE AS SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.
10. NO HOLES OR SLEEVES SHALL BE MADE THROUGH CONCRETE WORK OTHER THAN THOSE INDICATED ON THE STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
11. PROVIDE CAST–IN–PLACE CONCRETE FOR MECHANICAL AND ELECTRICAL DIVISIONS INCLUDING BUT NOT LIMITED TO: EQUIPMENT BASES, HOUSEKEEPING PADS, CURBS, PITS, UNDERGROUND DUCTBANKS.
12. ALL FORMWORK OFFSET TOLERANCES (PER ACI SP–117) TO BE CLASS A.
13. FLOOR SLAB TOLERANCE TO ASTM E1155: SPECIFIED OVERALL MINIMUM VALUE OF FLATNESS F<sub>F</sub>=25 WITH LOCAL MINIMUM F<sub>F</sub>=17, AND MINIMUM VALUE OF LEVELNESS F<sub>L</sub>=20 WITH LOCAL MINIMUM F<sub>L</sub>=15. MEASURE F<sub>L</sub> AND F<sub>F</sub> WITHIN 72 HOURS OF SLAB CONSTRUCTION.

CONCRETE NOTES

1

1. REINFORCING BARS: ASTM A615, GRADE 60, PREFORMED BARS.

2. WELDED WIRE MESH: TO ASTM A185. PROVIDE IN FLAT SHEETS ONLY. VERTICAL PLACEMENT TOLERANCE TO BE 3/8 INCH.

3. REINFORCING STEEL TO BE DETAILED, FABRICATED, BENT AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND ACI 315.

4. THE GENERAL CONTRACTOR SHALL FABRICATE ALL REINFORCEMENT AND FURNISH ALL ACCESSORIES, BOLSTERS, CHAIRS, SPACER BARS AND SUPPORTS NECESSARY TO SECURE THE REINFORCEMENT UNLESS INDICATED OTHERWISE, OR PROVIDED BY MANUFACTURER.

5. WHERE INDICATED, REINFORCING BARS SHALL BE WELDED IN ACCORDANCE WITH AWS D1.4 "STRUCTURAL WELDING CODE – REINFORCING STEEL".

6. IN REINFORCED MASONRY WALLS, COLUMNS AND BEAMS, REINFORCING SHALL BE HELD IN PLACE WITH "DUR–O–WALL" REBAR POSITIONERS, OR APPROVED EQUAL, PRIOR TO GROUTING.

7. IN SLABS WHERE REINFORCING IS SHOWN IN ONE DIRECTION ONLY, PROVIDE INDICATED TEMPERATURE REINFORCEMENT AT 90 DEGREES TO PRINCIPAL REINFORCEMENT.

8. LAP SPLICES:

A) SUBMIT PROPOSED LOCATIONS OF LAP SPLICES FOR APPROVAL.

B) CONCRETE: PROVIDE CLASS B TENSION LAP SPICES UNLESS NOTED OTHERWISE.

C) MASONRY: LAP SPLICE BARS A MINIMUM OF 40 BAR DIAMETERS UNLESS NOTED OTHERWISE.

D) WELDED WIRE MESH – MINIMUM LAP 8 INCHES, MEASURED BETWEEN OUTERMOST CROSS–WIRES OF EACH SHEET.

9. ENSURE THAT A MINIMUM OF 2 – #5 BARS ARE PROVIDED CONTINUOUSLY AT ALL SLAB EDGES BY ADJUSTING BAR LENGTHS OR PROVIDING ADDITIONAL TOP/BOTTOM EDGE BARS AS REQUIRED.

10. PROVIDE 1 – #5 NOSING BAR FOR ALL SILLS, LEDGES, CURBS, PADS AND STEPS UNLESS OTHERWISE INDICATED.

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE LATEST EDITION OF THE AISC "STEEL CONSTRUCTION MANUAL".
2. MATERIAL:

A. ALL STRUCTURAL STEEL WF BEAMS SHALL BE ASTM A992 AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.

B. ALL STRUCTURAL PLATES, ANGLES, AND CHANNELS SHALL BE ASTM A572 GRADE 50 AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS, UNLESS NOTED OTHERWISE.

C. ALL TS MEMBERS SHALL BE ASTM A500 GRADE B (F<sub>y</sub>=46ksi), AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.

D. ALL STRUCTURAL PIPE MEMBERS SHALL BE ASTM A500 GRADE B (F<sub>y</sub>=42ksi), AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS, UNLESS NOTED OTHERWISE.

E. ALL NON–STRUCTURAL PIPE MEMBERS SHALL BE ASTM A53 GRADE B, AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
3. DESIGN, FABRICATION, AND CONSTRUCTION OF ALL CONNECTIONS SHALL CONFORM TO AISC STEEL CONSTRUCTION MANUAL.
4. WELDING:

A. ALL WELDS, WELDERS, AND WELD INSPECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AWS D 1.1, LATEST REVISION.

B. ALL WELDS SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES.

C. ALL STEEL SHALL BE SPRAY GALVANIZED AFTER WELDING.
5. ALL BOLTS SHALL BE GALVANIZED 3/4 INCH DIAMETER, A325–N, UNLESS NOTED OTHERWISE AND TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC. SECURE NUT WITH LOCKING WASHER.
6. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36, UNLESS NOTED OTHERWISE.
7. THE CONTRACTOR/STEEL FABRICATOR SHALL LOCATE ANY REINFORCEMENT IN THE STRUCTURAL MEMBERS IN SUCH A MANNER SO THAT THERE WILL NOT BE CONFLICT WITH THE REINFORCEMENT WHEN INSTALLING ANCHORS. THE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER’S INSTRUCTION.
8. THE CONTRACTOR/STEEL FABRICATOR SHALL CONFORM TO THE MINIMUM EDGE DISTANCE REQUIREMENTS IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION.
9. ALL STRUCTURAL STEEL SHALL BE FABRICATED TO FIT AT BOLTED CONNECTIONS WITHIN 1/16 INCH TOLERANCE. STRUCTURAL STEEL SHALL NOT BE FLAME CUT UNDER ANY CIRCUMSTANCES WITHOUT APPROVAL OF THE ENGINEER.
10. THE CONTRACTOR/STEEL FABRICATOR SHALL CAP OR SEAL ALL PIPES AS REQUIRED TO PREVENT WATER INTRUSION.
11. THE CONTRACTOR/STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ANY STEEL FABRICATION. AT THE CONTRACTOR’S OPTION, FIELD SPLICES MAY BE USED FOR ERECTION PURPOSES. IF FIELD SPLICES ARE USED, THE SHOP DRAWINGS SHALL INCLUDE ALL DETAILS FOR THE PROPOSED FIELD SPLICES.
12. AT THE CONTRACTOR’S OPTION, SHOP WELDS MAY BE USED INSTEAD OF FIELD WELDS.
13. SUBMIT ORIGINAL SHOP DRAWINGS, INCLUDING COMPLETE DETAILS, SCHEDULES OF FABRICATION AND ASSEMBLY, PROCEDURES, AND DIAGRAMS. INCLUDE DETAILS OF CUTS, CONNECTIONS, CAMBER, HOLE, AND OTHER PERTINENT DATA. INDICATE WELDS BY STANDARD AWS A2.1 AND A2.4 SYMBOLS, AND SHOW SIZE, LENGTH, AND TYPE OF WELD. PROVIDE SETTING DRAWINGS, TEMPLATES, AND DIRECTIONS FOR INSTALLATION OF ANCHOR BOLTS AND OTHER ANCHORAGES TO BE INSTALLED AS WORK OF OTHERS’ SECTIONS.
14. ALL WALL PENETRATIONS SHALL BE SLEEVED (IF REQUIRED), CAULKED AND SEAL TO FORM AN AIR TIGHT SEAL.

REV	DATE	DESCRIPTION
A	7/15/24	PRELIMINARY
B	11/4/24	REVISED
O	11/11/24	FOR PERMIT
APX PROJECT NO.:		24–0362.04
DRAWN BY:		A. WARREN
CHECKED BY:		M. ABBEY

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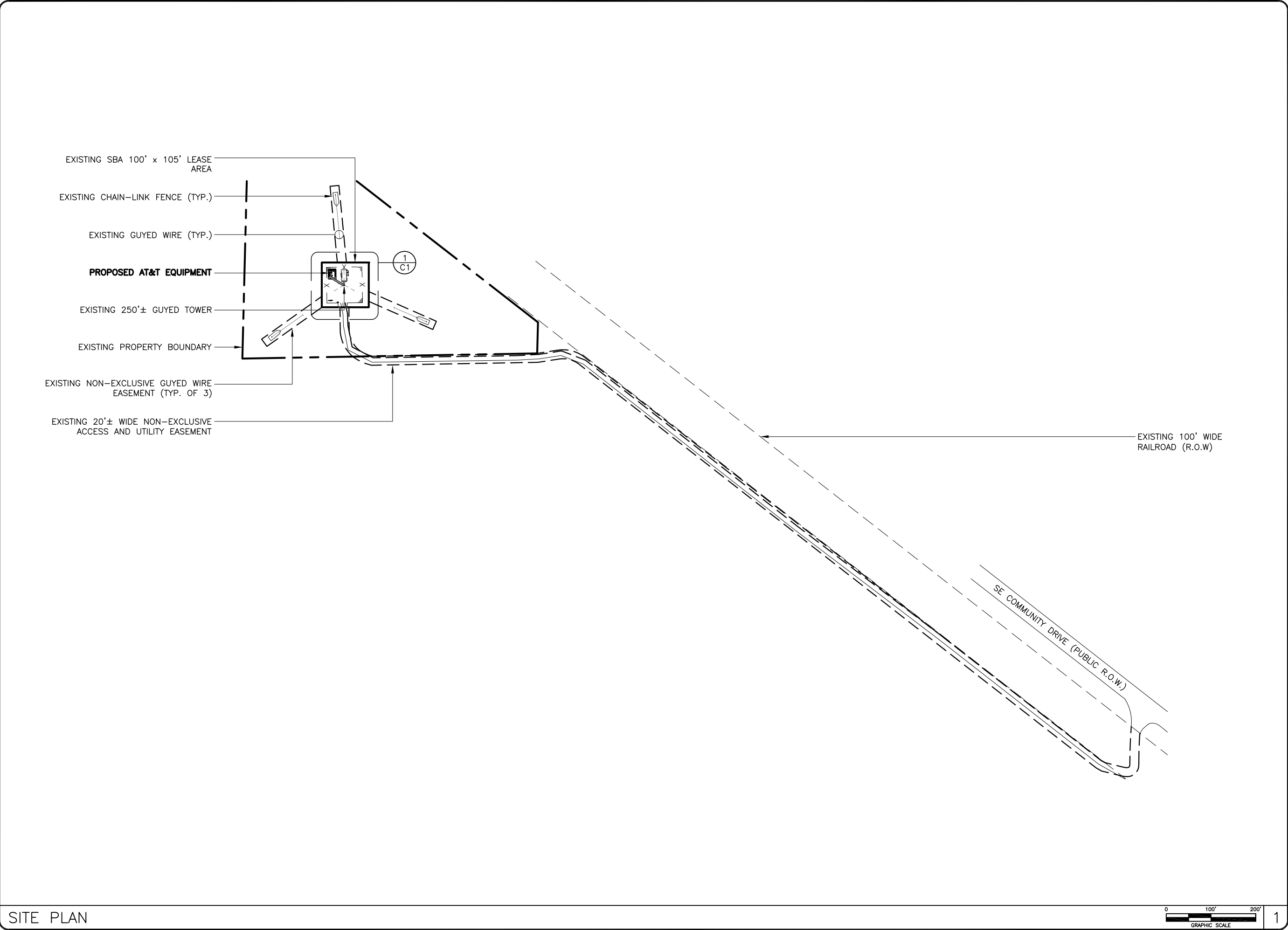
SHEET NAME

GENERAL NOTES

SHEET NUMBER

T3





SITE PLAN

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A	7/15/24	PRELIMINARY
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LULU, FL 32061

SHEET NAME

SITE PLAN

SHEET NUMBER

C0



COMPOUND PLAN

1  
C8

4  
E6

PROPOSED AT&T EQUIPMENT CABINET

PROPOSED 15' x 20' AT&T LEASE AREA &  
CONCRETE PAD (300 SQ FT)

PROPOSED AT&T CABLE BRIDGE

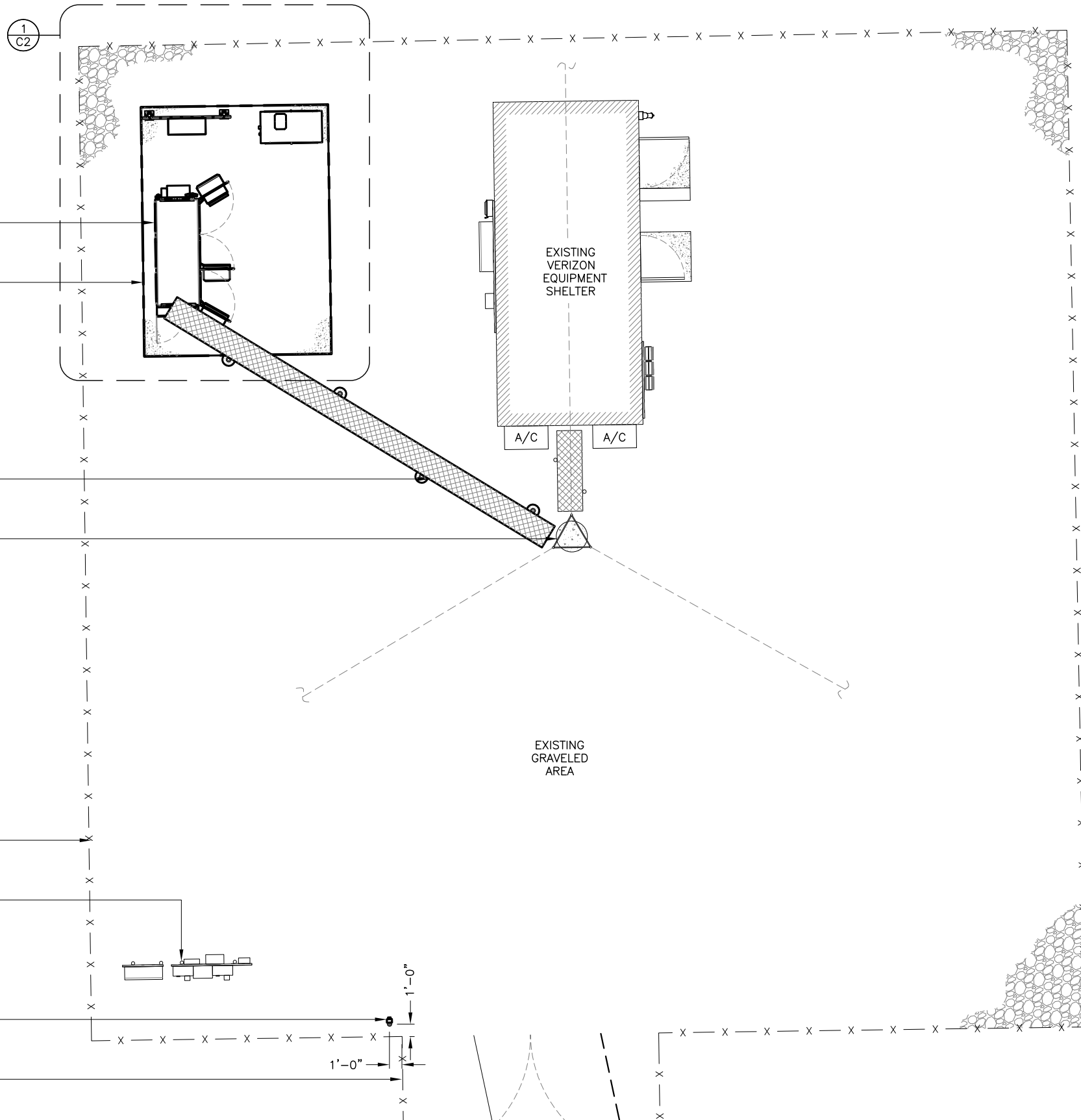
EXISTING 250'± GUYED TOWER

EXISTING 6'± HIGH CHAIN-LINK FENCE W/  
3-STRAND BARBED WIRE

EXISTING MULTI-TENANT UTILITY H-FRAME  
(TYP. OF 2)

PROPOSED AT&T GENERATOR EMERGENCY  
SHUT-OFF SWITCH

EXISTING 20'± WIDE ACCESS GATE



1

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**apx**  
ENGINEERING GROUP

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 **at&t**

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SHEET NAME

COMPOUND PLAN

SHEET NUMBER

C1



6  
C7

1  
C9

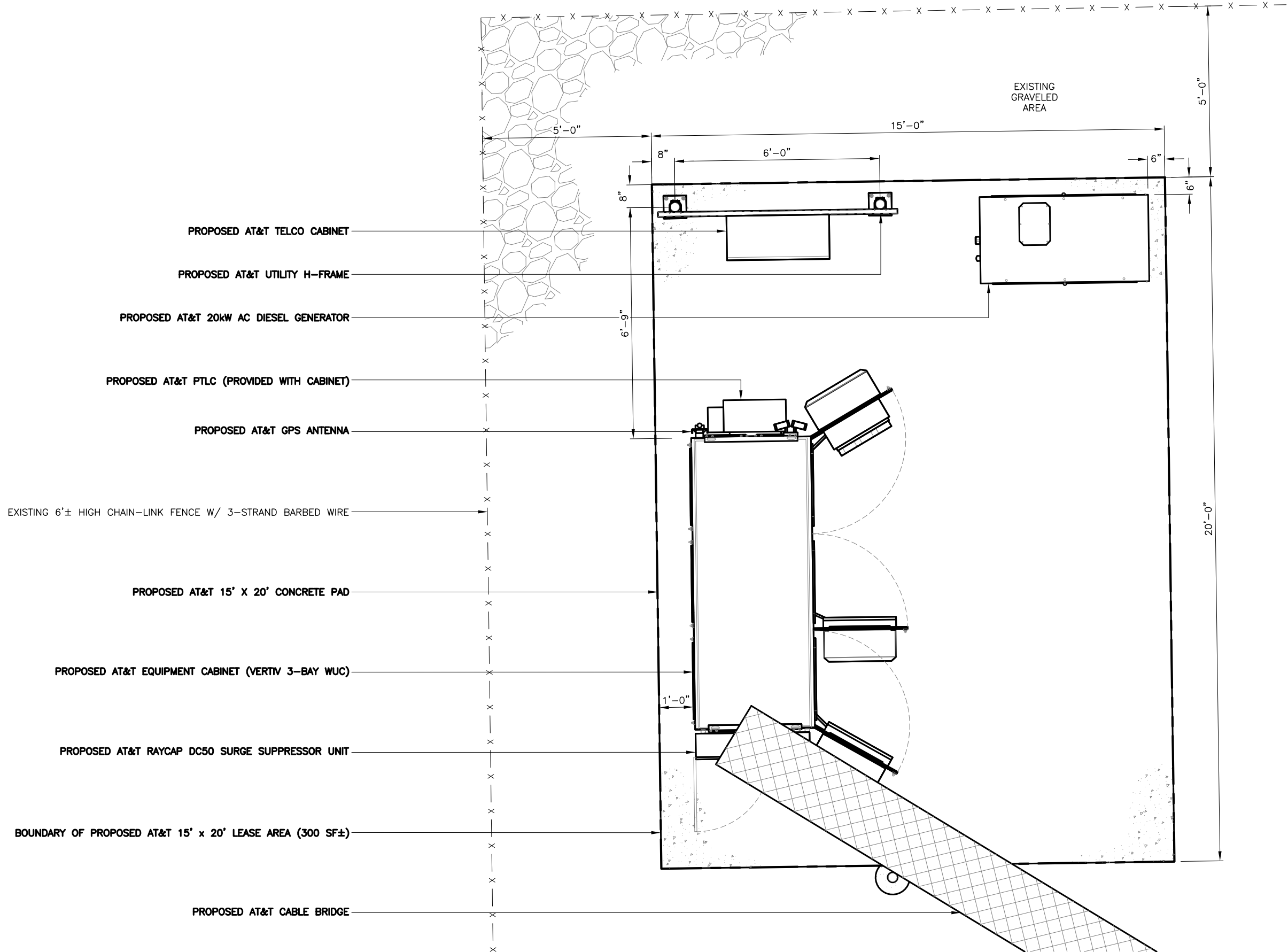
2  
C8

4  
C9

1  
C7

3  
C7

1  
C8



EQUIPMENT PLAN



REV	DATE	DESCRIPTION
A	7/15/24	PRELIMINARY
B	11/4/24	REVISED
O	11/11/24	FOR PERMIT

APX PROJECT NO.:	24-0362.04
DRAWN BY:	A. WARREN
CHECKED BY:	M. ABBEY

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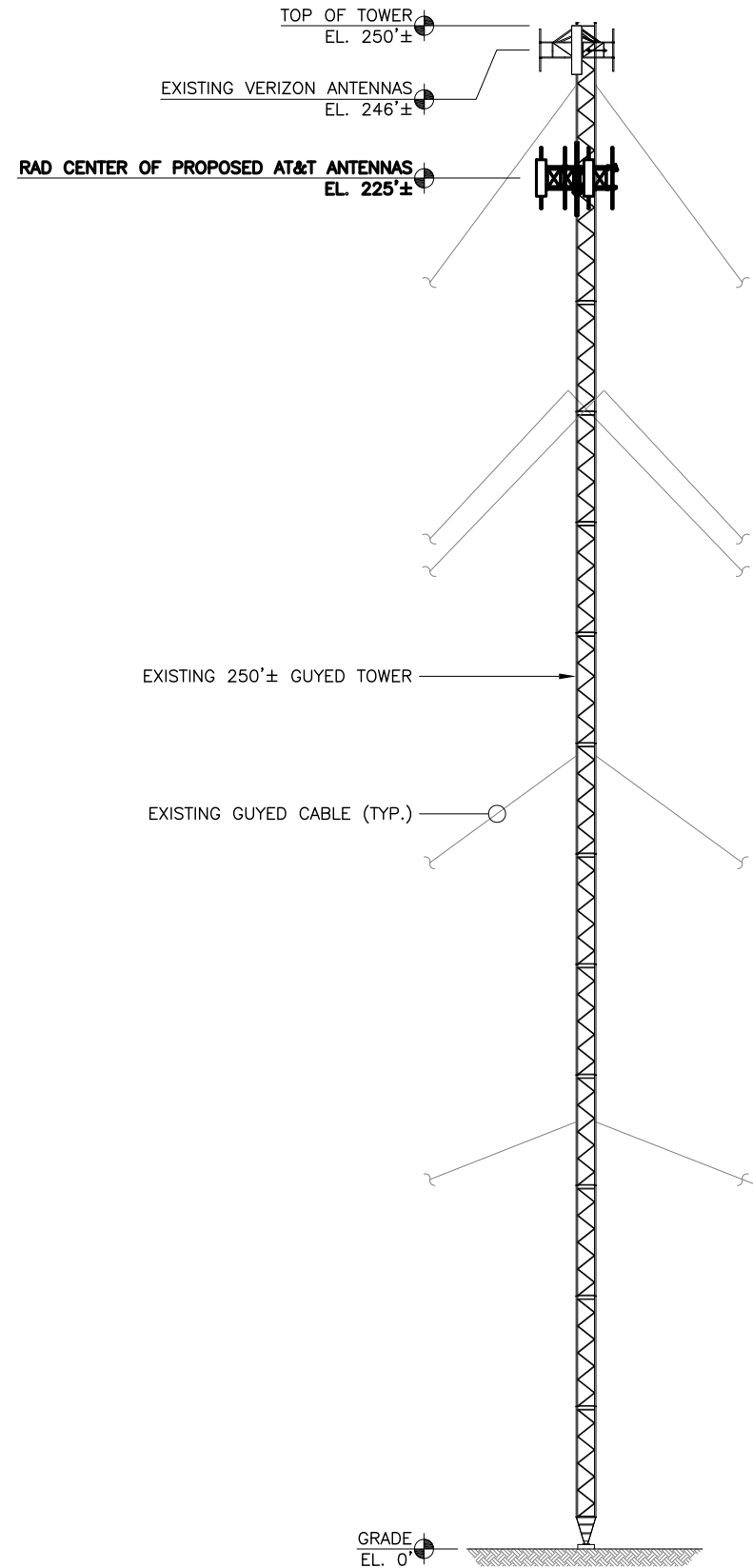


14471 MIRAMAR PARKWAY, SUITE 202  
MIRAMAR, FL 33027  
(954) 744-1538  
CERTIFICATE OF AUTHORIZATION 31948



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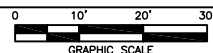
LULU (SBA)
FIXED ASSET: 10579357
120 SE COMMUNITY DRIVE LULU, FL 32061
SHEET NAME
EQUIPMENT PLAN
SHEET NUMBER
C2



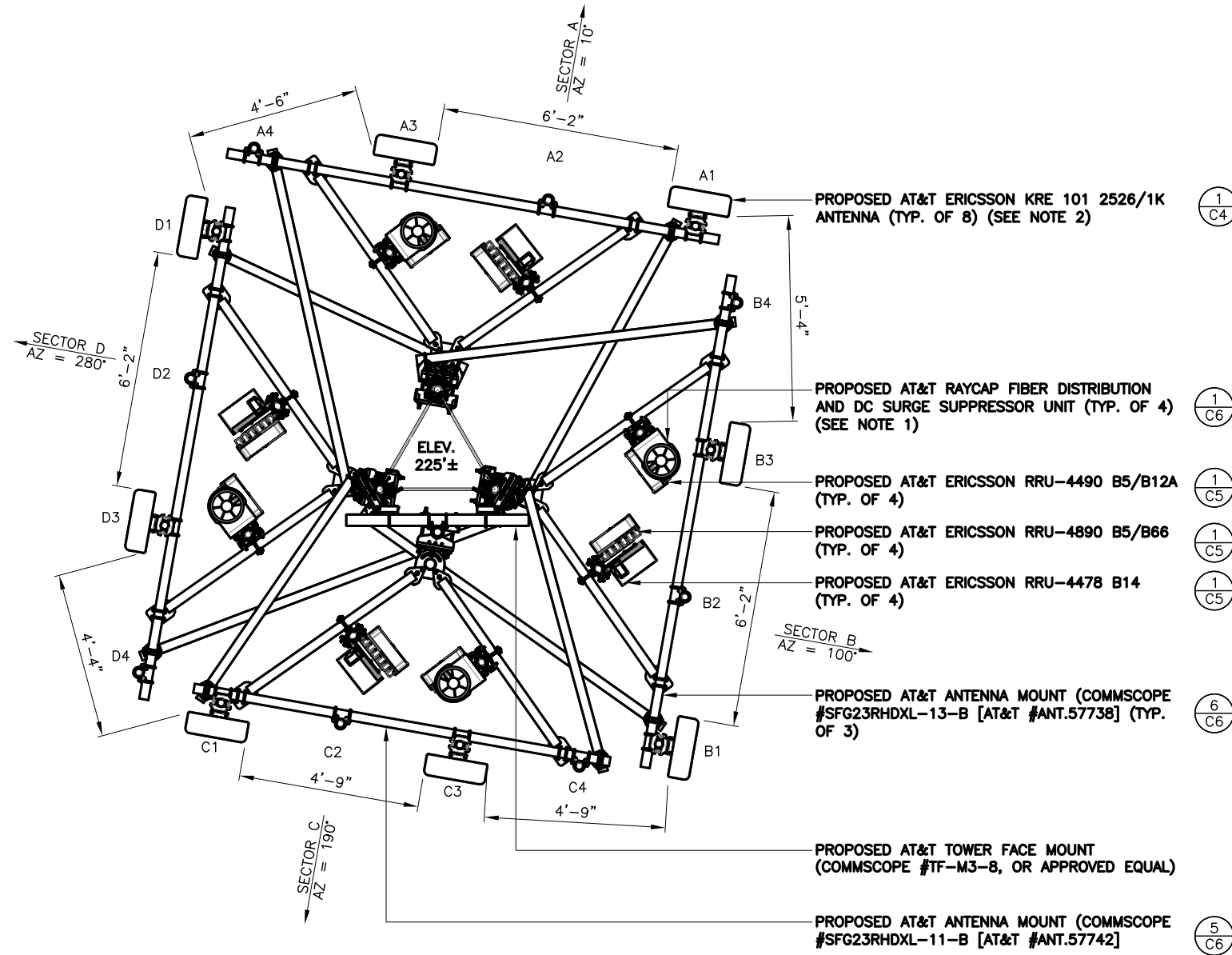
NOTE:

THIS DRAWING IS INTENDED TO DEPICT THE GENERAL LOCATION AND HEIGHT OF THE PROPOSED ANTENNAS ON THE EXISTING TOWER. CONSTRUCTION SHALL NOT PROCEED UNTIL A STRUCTURAL ANALYSIS REPORT HAS BEEN COMPLETED BY A PROFESSIONAL ENGINEER REGISTERED IN THIS STATE, CONCLUDING THAT THE EXISTING TOWER IS STRUCTURALLY ADEQUATE TO RESIST THE EXISTING AND PROPOSED LOADS.

ELEVATION



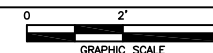
1



NOTES:

- CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRH'S WITHIN RESPECTIVE SECTOR.
- CONTRACTOR SHALL ENSURE THAT MINIMUM SEPARATION OF 36 INCHES BETWEEN THE 700 B12 AND 700 B14 ANTENNAS PER SECTOR AND THE CENTERS OF THE 700 B12 AND 700 B14 ANTENNA BACKPLANES ON ADJACENT SECTORS. THIS IS FOR PIM MITIGATION BETWEEN THOSE TWO FREQUENCY BANDS.

ANTENNA PLAN



2

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**apx**  
ENGINEERING GROUP

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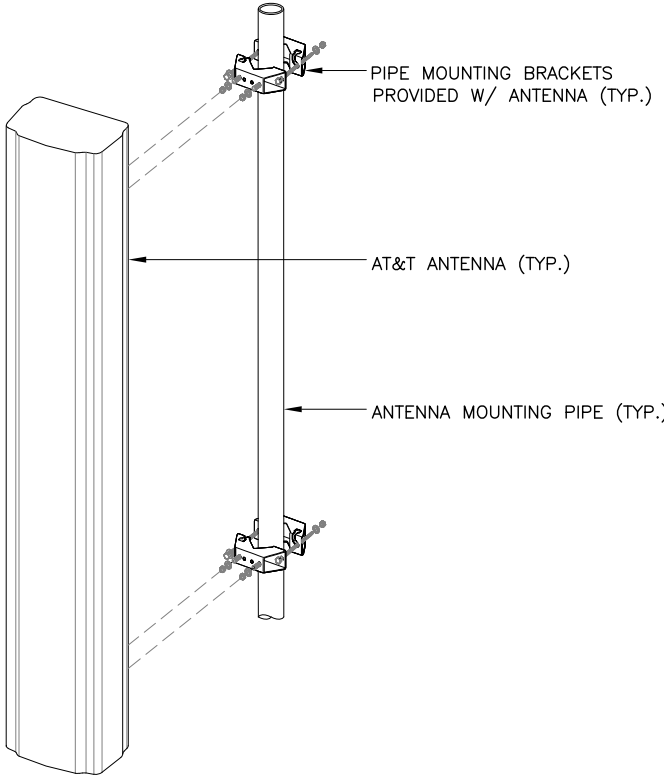
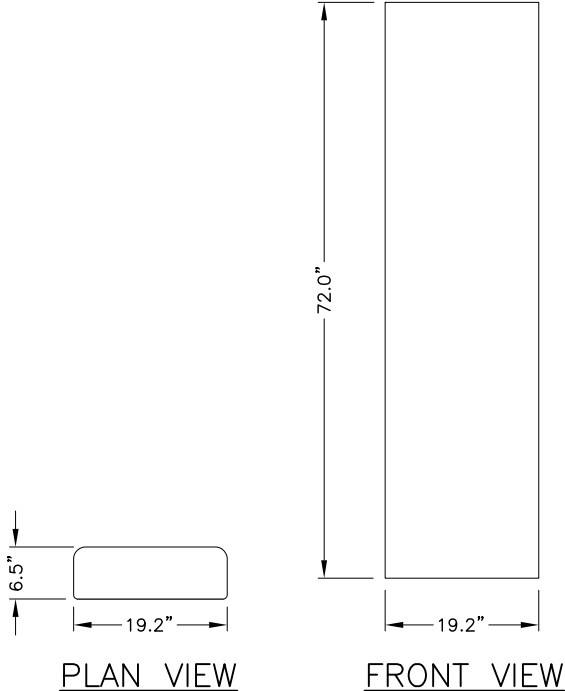
120 SE COMMUNITY DRIVE  
LULU, FL 32061

SHEET NAME

ELEVATION AND  
ANTENNA PLAN

SHEET NUMBER

C3

 <p>PIPE MOUNTING BRACKETS PROVIDED W/ ANTENNA (TYP.)</p> <p>AT&amp;T ANTENNA (TYP.)</p> <p>ANTENNA MOUNTING PIPE (TYP.)</p> <p>2</p> <p>5 C6</p> <p>6 C6</p>		 <p>PLAN VIEW</p> <p>FRONT VIEW</p> <p>MANUFACTURER: ERICSSON MODEL: KRE 101 2526/1K WEIGHT: 92.6 LBS</p>			
ANTENNA MOUNTING DETAIL	NTS 1	ANTENNA SPECS	NTS 2	(NOT USED)	3
(NOT USED)	4	(NOT USED)	5	(NOT USED)	6

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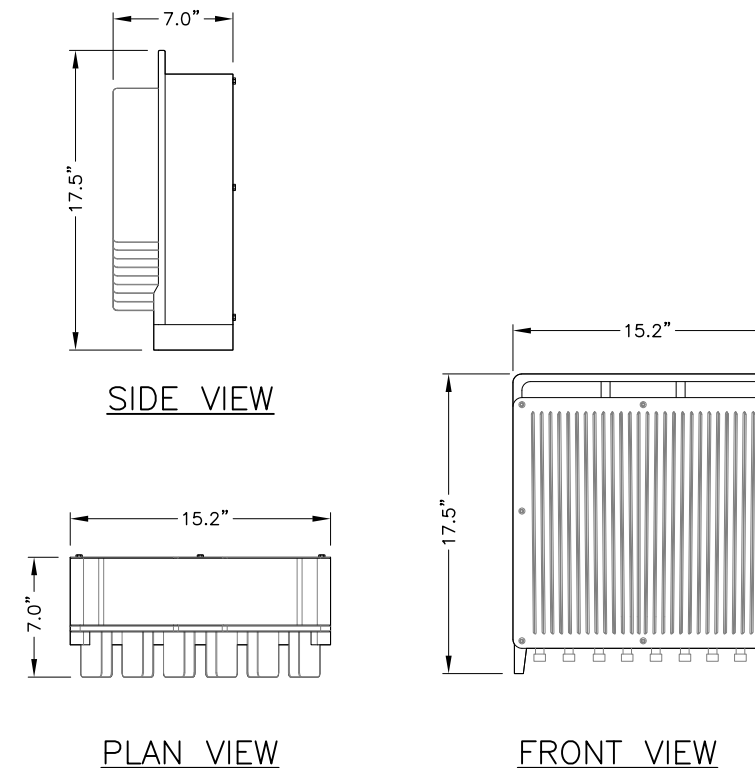
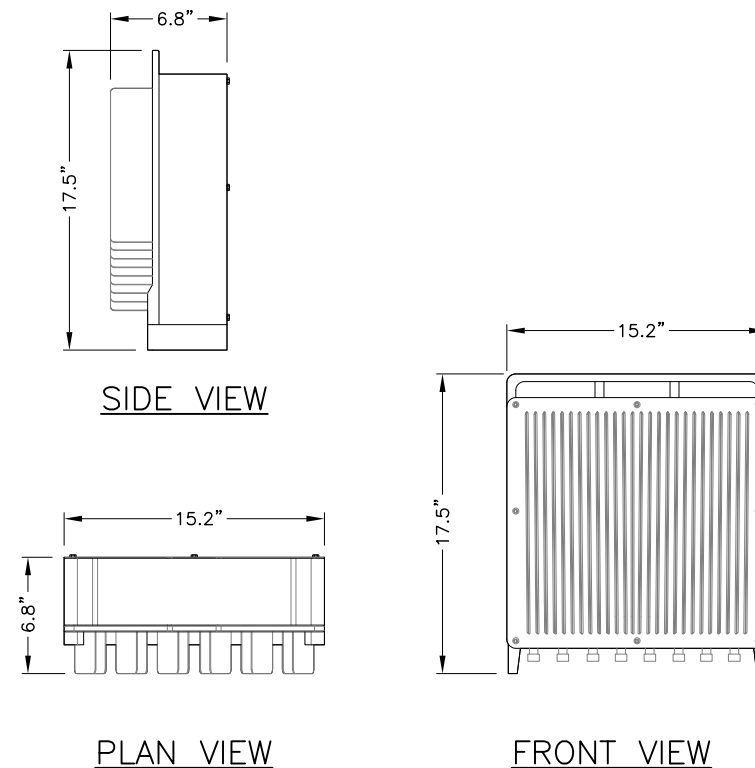
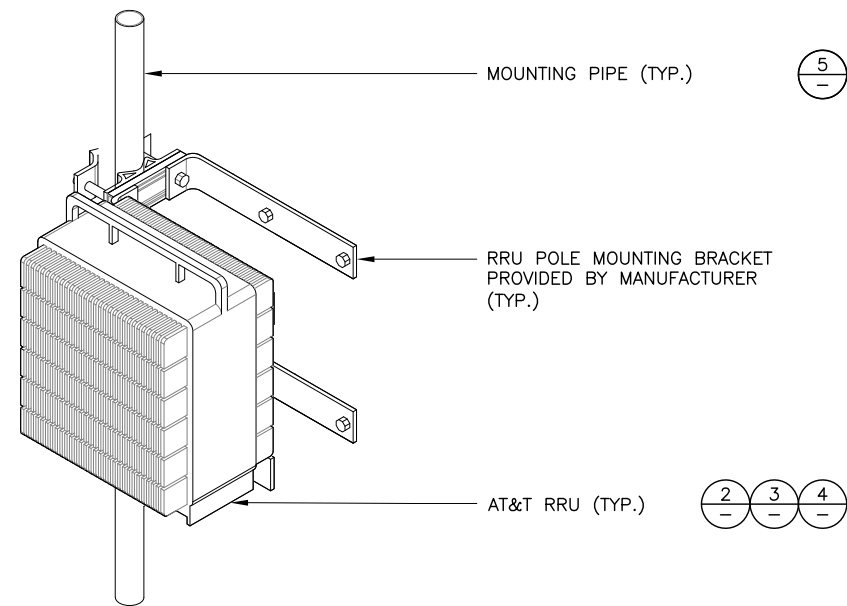
SHEET NAME

DETAILS

SHEET NUMBER

C4



[illegible]

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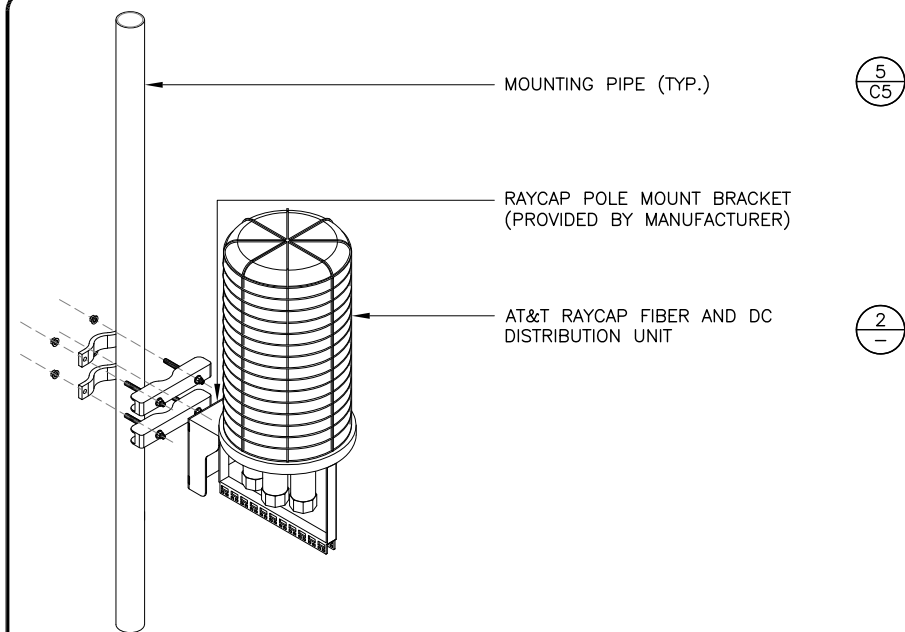
120 SE COMMUNITY DRIVE  
LULU, FL 32061

SHEET NAME

## DETAILS

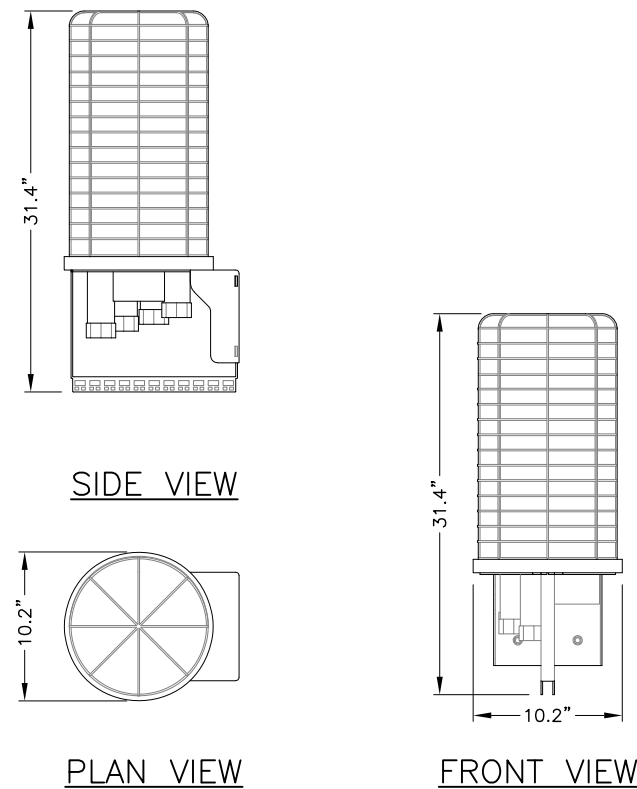
SHEET NUMBER

C5



NOTES:

1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
3. CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRH'S.

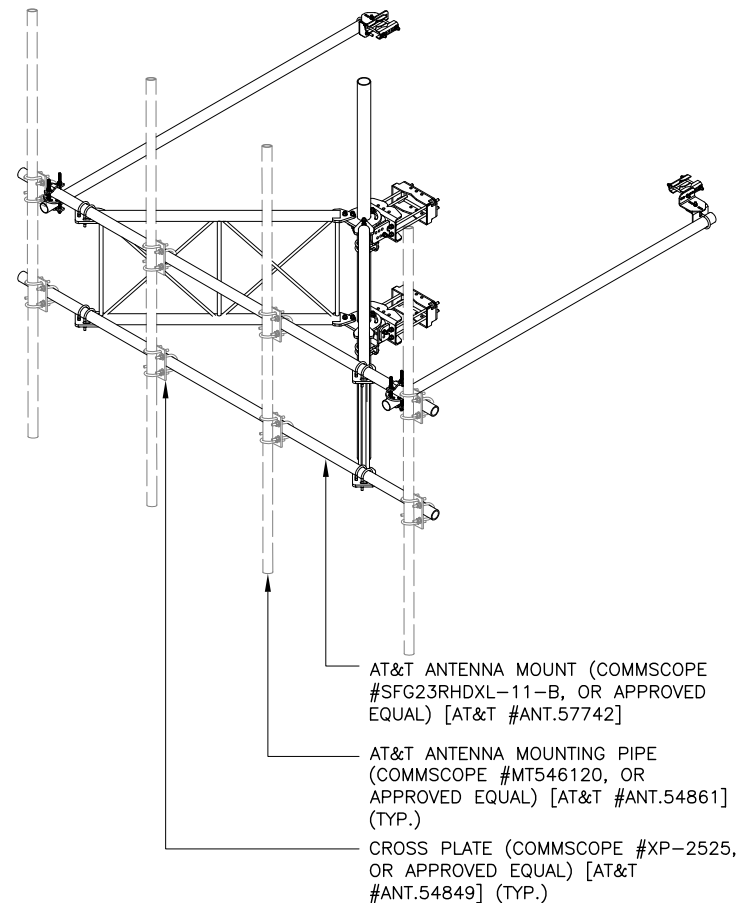


MANUFACTURER: RAYCAP  
MODEL: DC9-48-60-24-8C-EV  
WEIGHT: 32.8 LBS

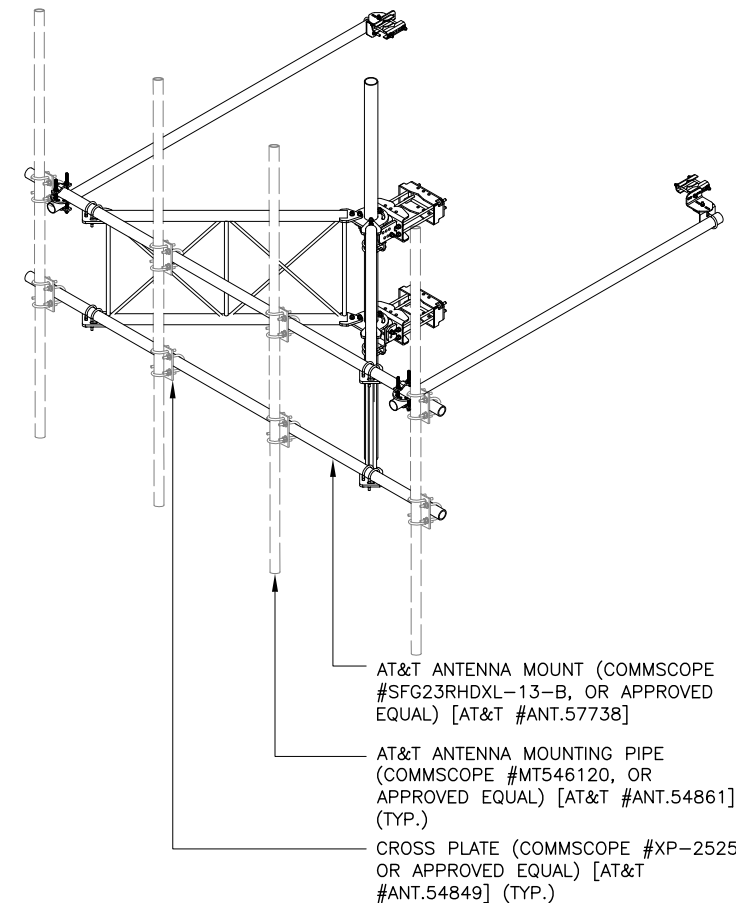
## SURGE SUPPRESSOR MOUNTING DETAIL

DC9 SPECS

(NOT USED)



(NOT USED)



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120 SE COMMUNITY DRIVE  
LULU, FL 32061

SHEET NAME

## DETAILS

SHEET NUMBER

C6

	WUC CABINET CONNECTION DETAIL	NTS 1		WUC CABINET MOUNTING FOOTPRINT	NTS 2		SURGE SUPPRESSOR SPECS	NTS 3
(NOT USED)	4		(NOT USED)	5			H-FRAME DETAIL	NTS 6

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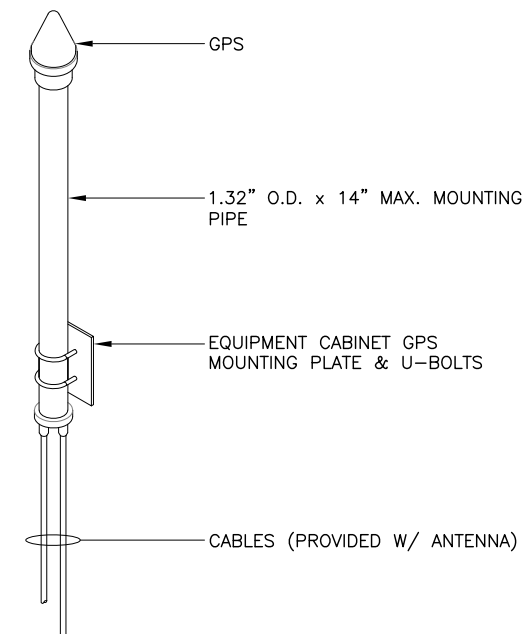
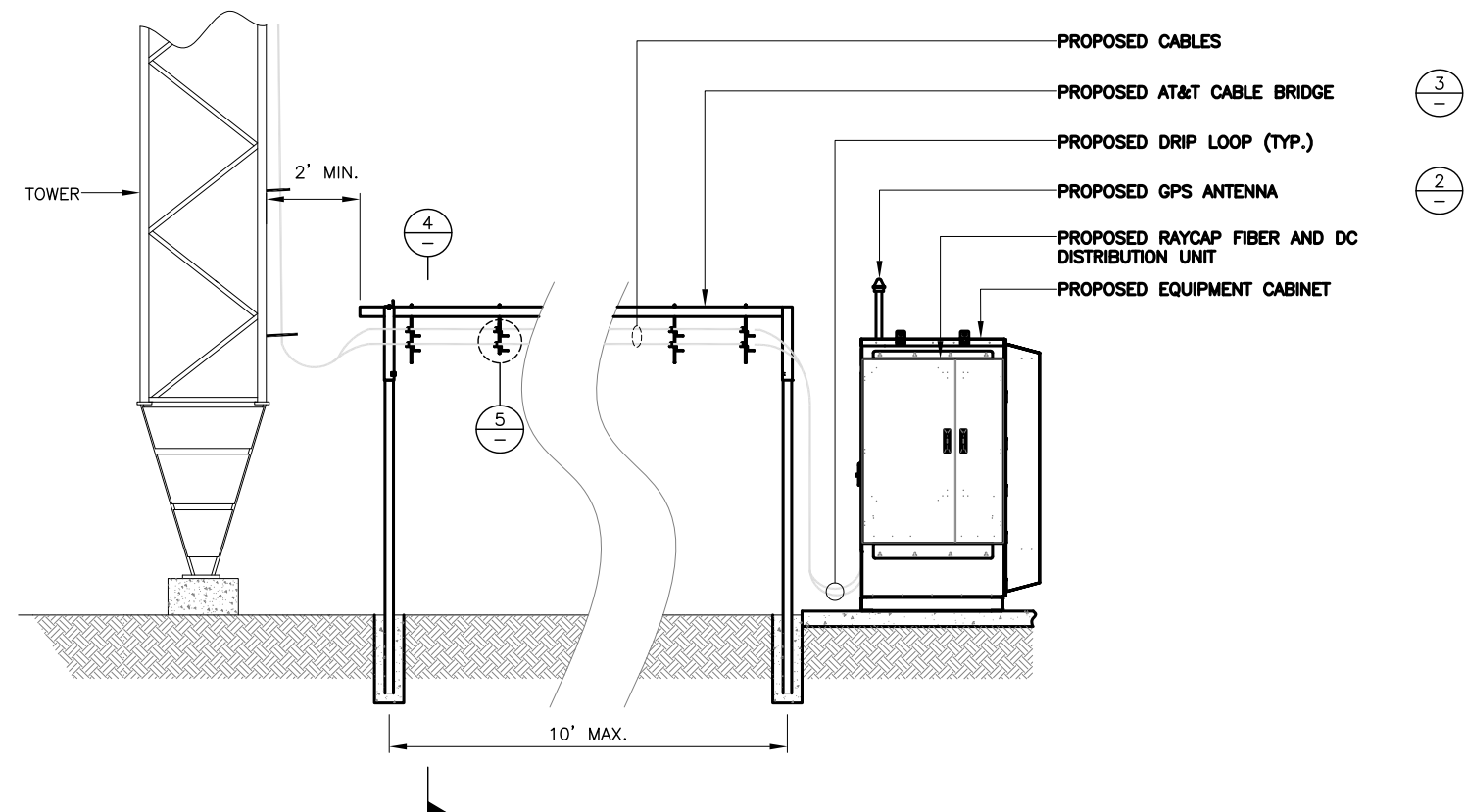
120 SE COMMUNITY DRIVE  
LULU, FL 32061

SHEET NAME

DETAILS

SHEET NUMBER

C7



- NOTES:

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<b>DRAWN BY:</b>		<b>A. WARREN</b>
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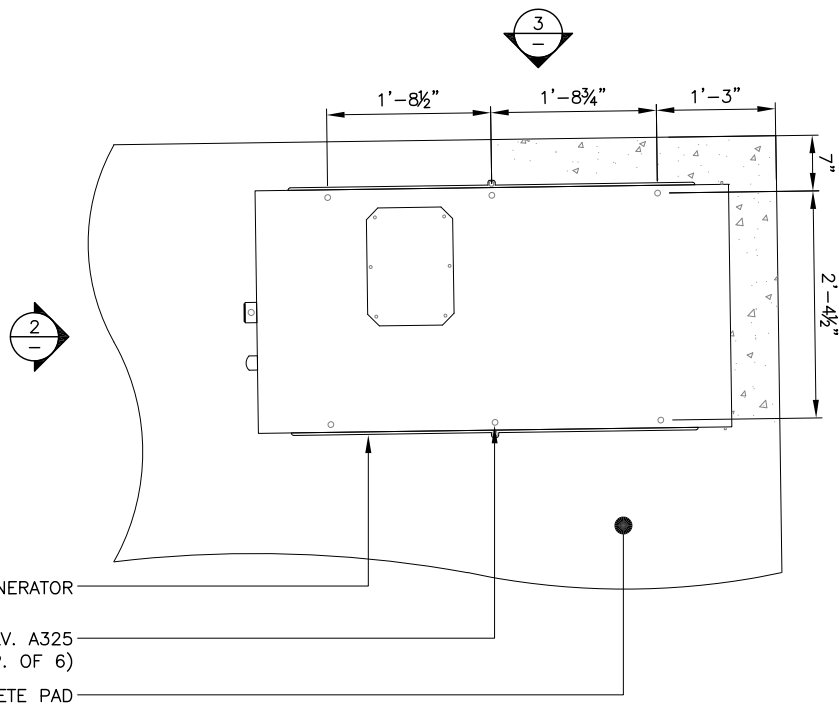
SHEET NAME

## DETAILS

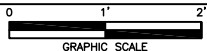
SHEET NUMBER

C8





GENERATOR PLAN

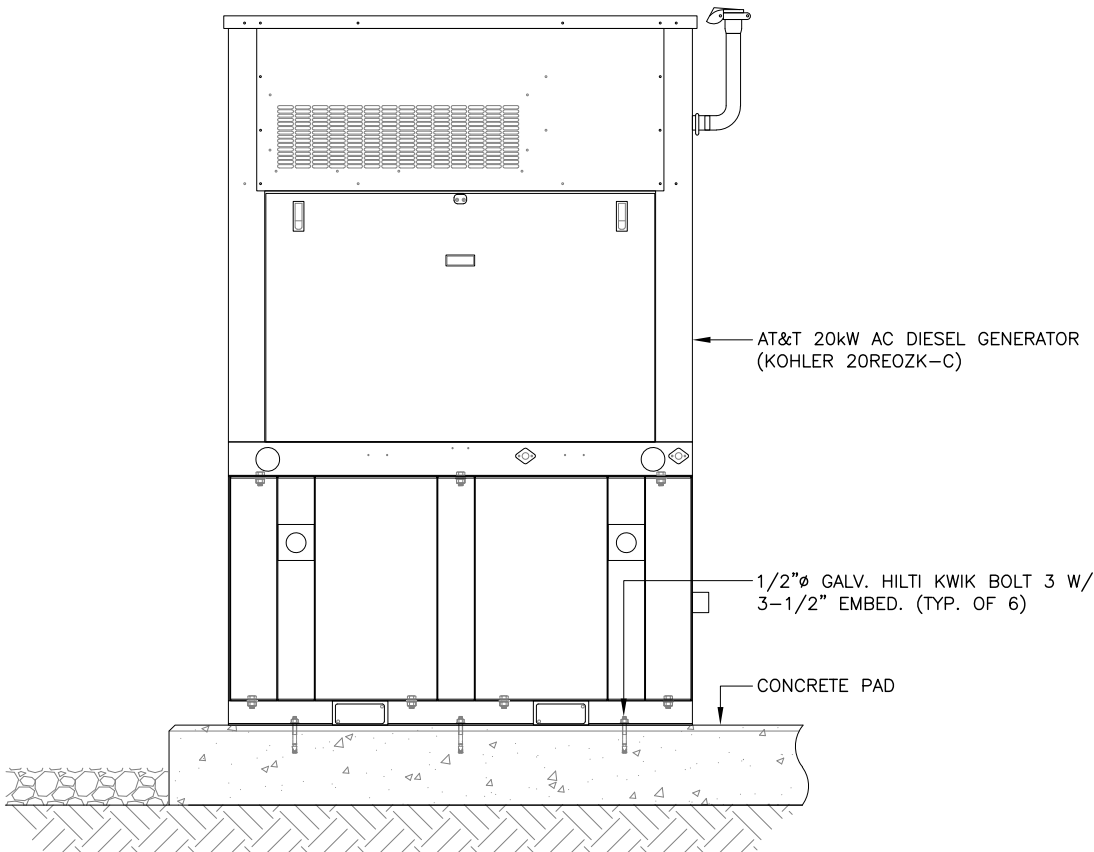


1

GENERATOR FRONT ELEVATION

NTS

2



GENERATOR SIDE ELEVATION

NTS

3

CONCRETE PAD DETAIL

NTS

4

NOTES:

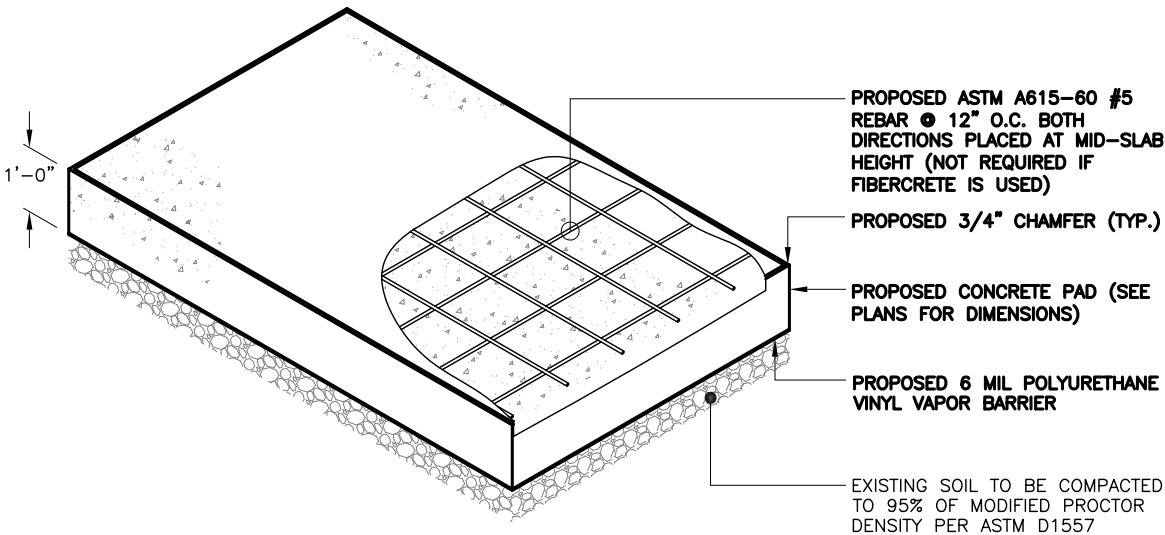
1. ALL CONCRETE SHALL BE 3,000 PSI 28-DAY COMPRESSIVE STRENGTH, NORMAL WEIGHT, MAXIMUM AGGREGATE SIZE OF 3/4 INCH, 0.45 MAX. W/C, 4-5 INCHES SLUMP.
2. FOUNDATION DESIGN BASED UPON AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF IN ACCORDANCE WITH FBC TABLE 1806.2.

AT&T 20kW DIESEL GENERATOR  
(KOHLER 20REOZK-C)

1/2" Ø GALV. A325 BOLT (TYP. OF 6)

CONCRETE PAD

4



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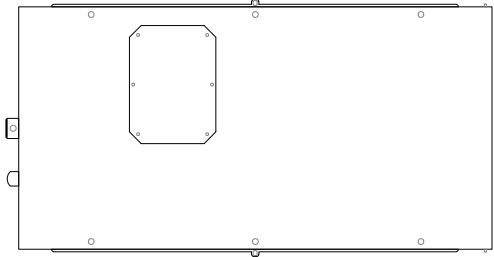
SHEET NAME

GENERATOR DETAILS

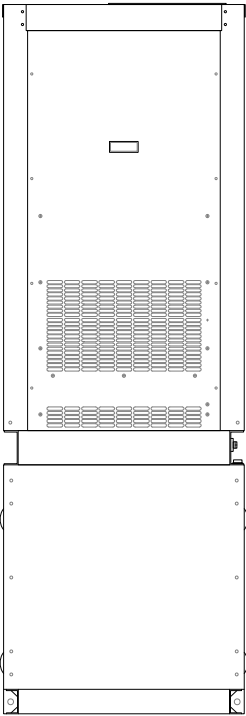
SHEET NUMBER

C9

ALL INFORMATION ON THIS SHEET IS REPRODUCED FROM  
MANUFACTURER CUT SHEETS.



KOHLER GENERATOR DETAILS	
OUTPUT	20kW
FUEL TYPE	DIESEL
TANK SIZE	105 GAL
TANK MATERIAL	STEEL
TANK TYPE	DOUBLE WALLED
UL LISTING	—



GENERATOR PLAN

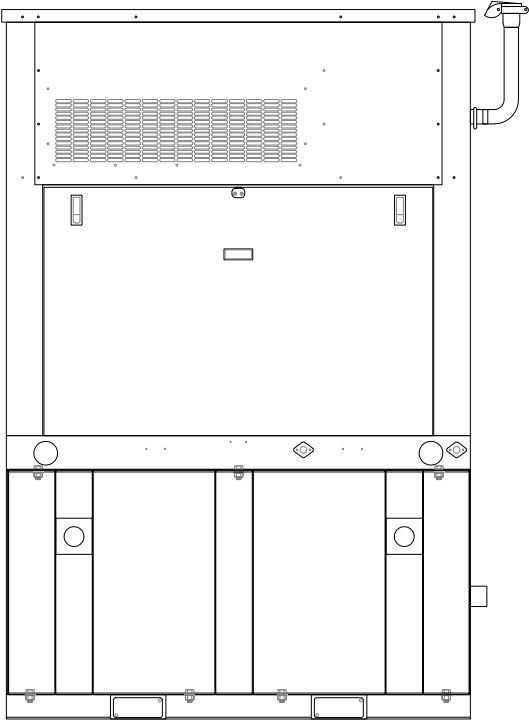
NTS

1

GENERATOR FRONT ELEVATION

NTS

2



GENERATOR SIDE ELEVATION

NTS

3

GENERATOR NOTES

4

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GENERATOR DETAILS

SHEET NUMBER

C10

DC / FIBER DEMARCATION BOX																		
RAYCAP DC FIBER DEMARCATION BOX						CABLES				INNERDUCTS								
MOUNTING HEIGHT		MODEL		QUANTITY		MODEL		SIZE	QUANTITY	LENGTH PER LINE		SIZE	QUANTITY					
225'±		DC9-48-60-24-8C-EV		4		ROSENBERGER (18) PAIR FIBER TRUNK		3/8"	4	275'±		-	-					
						#6 AWG CONDUCTOR SHIELDED DC CABLE		0.95"	4	275'±								

ANTENNA AND CABLE SCHEDULE																						
ANTENNA									CABLES					RRU		TMA		DIPLEXER				
SECTOR	AZIMUTH	RAD CENTER	ANTENNA MAKE	ANTENNA MODEL	ANTENNA (QTY)	APPROX. ANTENNA SPECS	MECH DOWNTILT	ELECT DOWNTILT	CABLE MODEL	SIZE	# OF CABLES	CABLE LENGTH PER LINE	COLOR CODE	MODEL	QTY.	MODEL	QTY.	MODEL	TOWER QUANTITY	GROUND QUANTITY		
ALPHA (A1)	10°	225'±	ERICSSON	KRE1012526/1K	1	W = 19.2" D = 6.5" H = 72.0" WEIGHT 74.5 LBS	-	-	ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	3	15'	1 RED	RRUS-4478 B14	1	-	-	-	-	-		
									ROSENBERGER SINGLE PAIR DC CABLES (DC6 TO RRU)	7/16"	2	15'		-	-	-	-	-	-			
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	15'		RRUS-4890 B25/B66	1	-	-	-	-	-		
									-	-	-	-		-	-	-	-	-	-	-		
ALPHA (A3)	10°	225'±	ERICSSON	KRE1012526/1K	1	W = 19.2" D = 6.5" H = 72.0" WEIGHT 74.5 LBS	-	-	ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	2	15'	3 RED	-	-	-	-	-	-	-		
									ROSENBERGER SINGLE PAIR DC CABLES (DC6 TO RRU)	7/16"	1	15'		-	-	-	-	-	-	-		
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	4	15'		RRUS-4490 B5/B12A	1	-	-	-	-	-		
									-	-	-	-		-	-	-	-	-	-	-		
BETA (B1)	100°	225'±	ERICSSON	KRE1012526/1K	1	W = 19.2" D = 6.5" H = 72.0" WEIGHT 74.5 LBS	-	-	ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	3	15'	1 BLUE	RRUS-4478 B14	1	-	-	-	-	-		
									ROSENBERGER SINGLE PAIR DC CABLES (DC6 TO RRU)	7/16"	2	15'		-	-	-	-	-	-	-		
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	15'		RRUS-4890 B25/B66	1	-	-	-	-	-		
									-	-	-	-		-	-	-	-	-	-	-		
BETA (B3)	100°	225'±	ERICSSON	KRE1012526/1K	1	W = 19.2" D = 6.5" H = 72.0" WEIGHT 74.5 LBS	-	-	ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	2	15'	3 BLUE	-	-	-	-	-	-	-		
									ROSENBERGER SINGLE PAIR DC CABLES (DC6 TO RRU)	7/16"	1	15'		-	-	-	-	-	-	-		
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	4	15'		RRUS-4490 B5/B12A	1	-	-	-	-	-		
									-	-	-	-		-	-	-	-	-	-	-		
GAMMA (G1)	190°	225'±	ERICSSON	KRE1012526/1K	1	W = 19.2" D = 6.5" H = 72.0" WEIGHT 74.5 LBS	-	-	ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	3	15'	1 GREEN	RRUS-4478 B14	1	-	-	-	-	-		
									ROSENBERGER SINGLE PAIR DC CABLES (DC6 TO RRU)	7/16"	2	15'		-	-	-	-	-	-	-		
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	15'		RRUS-4890 B25/B66	1	-	-	-	-	-		
									-	-	-	-		-	-	-	-	-	-	-		
GAMMA (G3)	190°	225'±	ERICSSON	KRE1012526/1K	1	W = 19.2" D = 6.5" H = 72.0" WEIGHT 74.5 LBS	-	-	ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	2	15'	3 GREEN	-	-	-	-	-	-	-		
									ROSENBERGER SINGLE PAIR DC CABLES (DC6 TO RRU)	7/16"	1	15'		-	-	-	-	-	-	-		
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	4	15'		RRUS-4490 B5/B12A	1	-	-	-	-	-		
									-	-	-	-		-	-	-	-	-	-	-		
DELTA (D1)	280°	225'±	ERICSSON	KRE1012526/1K	1	W = 19.2" D = 6.5" H = 72.0" WEIGHT 74.5 LBS	-	-	ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	3	15'	1 YELLOW	RRUS-4478 B14	1	-	-	-	-	-		
									ROSENBERGER SINGLE PAIR DC CABLES (DC6 TO RRU)	7/16"	2	15'		-	-	-	-	-	-	-		
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	15'		RRUS-4890 B25/B66	1	-	-	-	-	-		
									-	-	-	-		-	-	-	-	-	-	-		
DELTA (D3)	280°	225'±	ERICSSON	KRE1012526/1K	1	W = 19.2" D = 6.5" H = 72.0" WEIGHT 74.5 LBS	-	-	ROSENBERGER FIBER JUMPER (DC6 TO RRU)	3/8"	2	15'	3 YELLOW	-	-	-	-	-	-	-		
									ROSENBERGER SINGLE PAIR DC CABLES (DC6 TO RRU)	7/16"	1	15'		-	-	-	-	-	-	-		
									1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	4	15'		RRUS-4490 B5/B12A	1	-	-	-	-	-		
									-	-	-	-		-	-	-	-	-	-	-		
					TOTAL EXISTING	0								TOTAL		12	TOTAL	0	TOTAL	-	-	
					TOTAL REMOVED	0						FIBER										
					TOTAL PLACED	8						DC POWER										
					OVERALL TOTAL	8						COAX JUMPER										
										TOTAL				5/16" RET JUMPERS								
														5/16" RET CABLES								

ANTENNA AND CABLE SCHEDULE		1
----------------------------	--	---

1.

SCOPE: PROVIDE LABOR, MATERIALS, AND EQUIPMENT, ETC., REQUIRED TO COMPLETE THE INSTALLATION SHOWN ON THE DRAWINGS.
2.

CODES AND STANDARDS: INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS OF LATEST EDITIONS OF:

A.

NFC – NATIONAL FIRE CODES

B.

UL – UNDERWRITERS LABORATORIES

C.

NEC – NATIONAL ELECTRICAL CODE

D.

NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

E.

OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
3.

PERMITS: OBTAIN AND PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC.
4.

COORDINATION: COORDINATE WORK WITH OTHER TRADES.
5.

EXISTING SERVICES: DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
6.

CUTTING AND PATCHING: PROVIDE CUTTING REQUIRED TO DO THE WORK. DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.
7.

CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
8.

WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND AT&T STANDARD.
9.

ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND AT&T STANDARD.
10.

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.
11.

ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS (OR EQUAL). ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID’S).
12.

PANELBOARDS (ID NUMBERS) AND DISCONNECTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
13.

POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600V, 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.
14.

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.
15.

POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600V, 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.
16.

ALL POWER AND 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).
17.

RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
18.

CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
19.

CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
20.

THE CONTRACTOR 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.
21.

ALL VERTICAL RUNS OF POWER CABLE EXCEEDING 80 FEET IN LENGTH SHALL BE SUPPORTED PER N.E.C. ARTICLE 300 USING KELLEMS GRIPS OR ACCEPTABLE EQUAL CABLE SUPPORT SYSTEM. PROVIDE SUPPORT CABLES AS PER N.E.C. TABLE 300.19(A).
22.

CONTRACTOR SHALL PROVIDE LABELS FOR EACH BREAKER INCLUDING THE BREAKER POSITION NUMBER, THE BREAKER SIZE AND A DESCRIPTION OF BREAKER FEED. CONSTRUCTION MANAGER MUST APPROVE BREAKER LABELS AND MOUNTING LOCATION.
23.

PULL BOXES FOR FIBER REQUIRED EVERY 180 DEGREES.

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A	7/15/24	PRELIMINARY
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APX PROJECT NO.:		24–0362.04
DRAWN BY:		A. WARREN
CHECKED BY:		M. ABBEY

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MIRAMAR, FL 33027  
(954) 744–1538

CERTIFICATE OF AUTHORIZATION 31948



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LULU (SBA)

FIXED ASSET: 10579357

120 SE COMMUNITY DRIVE  
LULU, FL 32061

SHEET NAME

ELECTRICAL NOTES

SHEET NUMBER

E1



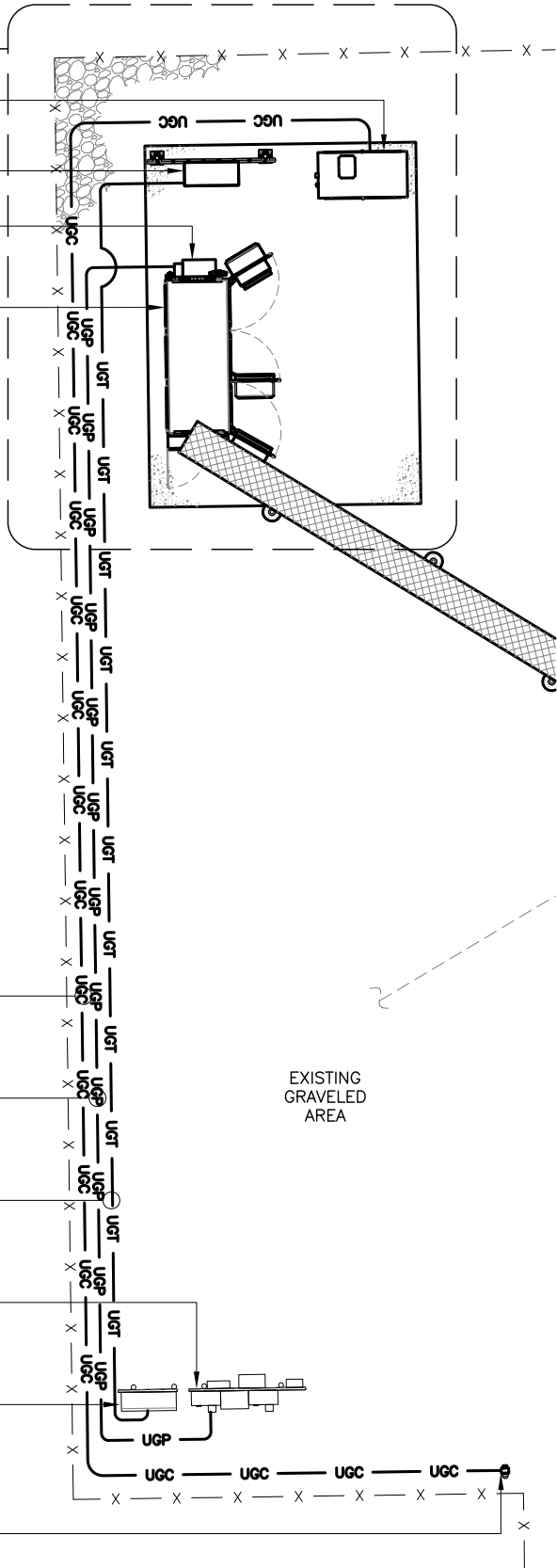


PROPOSED AT&T 20kW AC DIESEL GENERATOR

PROPOSED AT&T TELCO CABINET

PROPOSED AT&T PTLC (PROVIDED WITH CABINET)

PROPOSED AT&T EQUIPMENT CABINET (VERTIV 3-BAY WUC)



1  
E6

PROPOSED 1" CONDUIT FOR GENERATOR EMERGENCY SHUT-OFF SWITCH

1  
E6

PROPOSED 2" CONDUIT FOR POWER (APPROX. 80'± IN LENGTH)

1  
E6

PROPOSED 4" CONDUIT W/ (3) 1.25" INNER DUCT FOR FIBER

EXISTING MULTI-TENANT UTILITY H-FRAME

EXISTING COMMUNITY TELCO CABINET

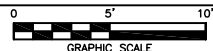
4  
E6

PROPOSED AT&T GENERATOR EMERGENCY SHUT-OFF SWITCH

NOTES:

1. PROPOSED CONDUIT ROUTING IS SCHEMATIC ONLY, CONTRACTOR SHALL DETERMINE SUITABLE ROUTING IN THE FIELD.
2. PROPOSED TELCO CONDUIT ROUTING SHALL NOT INCLUDE ANY LBs AND HAVE SMOOTH 90 DEGREE ANGLE BENDS.
3. PULL BOXES FOR FIBER REQUIRED EVERY 180 DEGREES.

UTILITY ROUTING PLAN



1



PROPOSED AT&T 20kW AC DIESEL GENERATOR

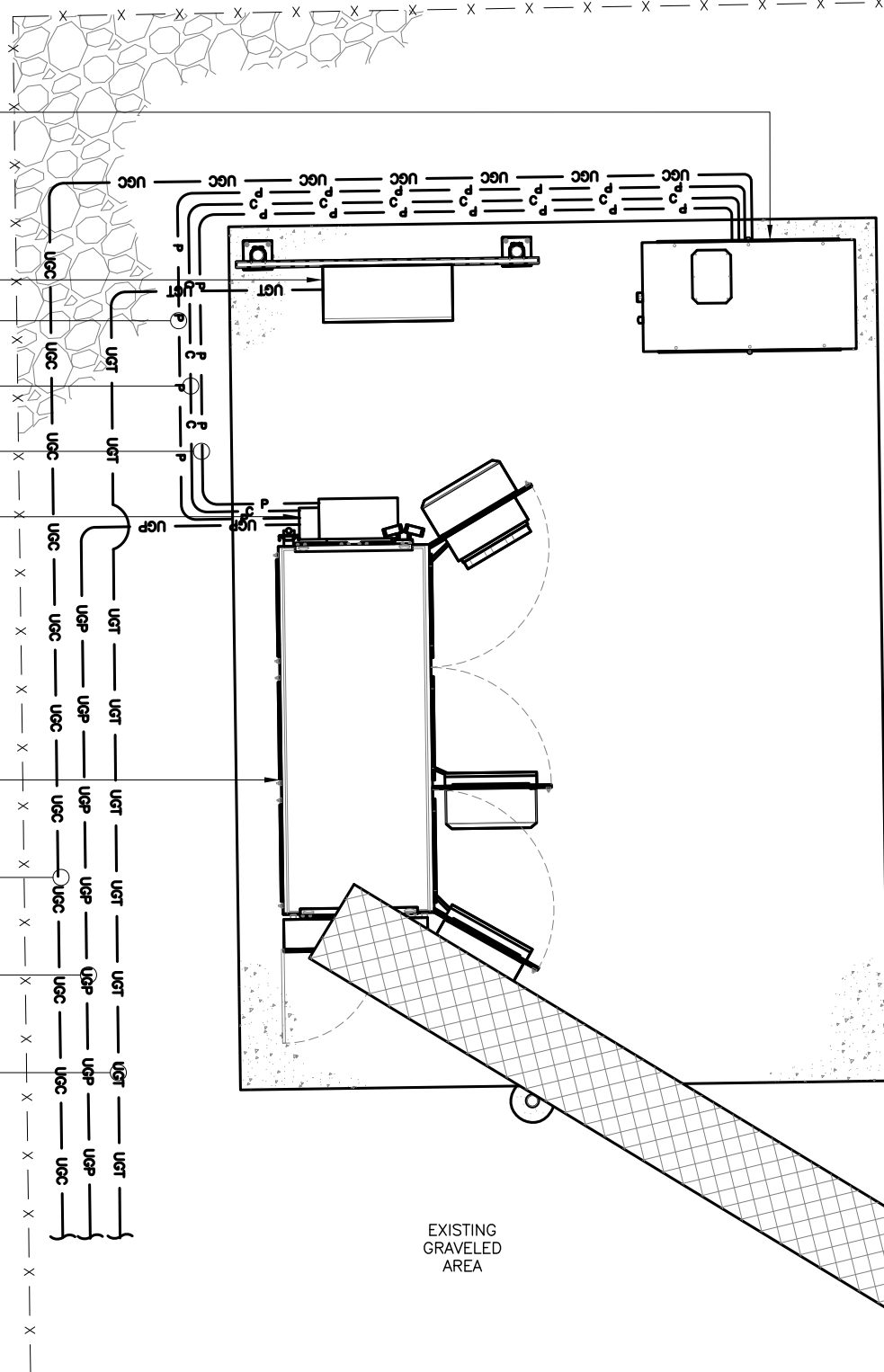
PROPOSED AT&T TELCO CABINET

PROPOSED 2" CONDUIT FOR POWER CABLES

PROPOSED 1" CONDUIT FOR ALARM MONITORING AND REMOTE CONTROL

(2) PROPOSED 1/2" CONDUITS FOR BATTERY CHARGER AND BLOCK HEATER

PROPOSED AT&T PTLC (PROVIDED WITH CABINET)



1  
E6

PROPOSED 1" CONDUIT FOR GENERATOR EMERGENCY SHUT-OFF SWITCH

1  
E6

PROPOSED 2" CONDUIT FOR POWER (APPROX. 80'± IN LENGTH)

1  
E6

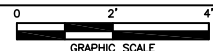
PROPOSED 4" CONDUIT W/ (3) 1.25" INNER DUCT FOR FIBER

EXISTING GRAVELEAVED AREA

NOTES:

1. PROPOSED CONDUIT ROUTING IS SCHEMATIC ONLY, CONTRACTOR SHALL DETERMINE SUITABLE ROUTING IN THE FIELD.
2. PROPOSED TELCO CONDUIT ROUTING SHALL NOT INCLUDE ANY LBs AND HAVE SMOOTH 90 DEGREE ANGLE BENDS.
3. PULL BOXES FOR FIBER REQUIRED EVERY 180 DEGREES.

UTILITY ROUTING PLAN



1

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CHECKED BY:	M. ABBEY

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CERTIFICATE OF AUTHORIZATION 31948



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LULU (SBA)

FIXED ASSET: 10579357

120 SE COMMUNITY DRIVE  
LULU, FL 32061

SHEET NAME

UTILITY  
ROUTING PLANS

SHEET NUMBER

E2



PANEL NAME: AT&T		PANEL RATING		200 AMPS		PHASE 1		X MCB		RATING 200 AMP										
LOCATION: AC PANEL				120/240 VOLTS		WIRE 3		MAIN LUG ONLY												
CKT NO.	DESCRIPTION	KVA		AMP POLE	WIRE	GND	COND	COND	GND	WIRE	AMP POLE	KVA		DESCRIPTION	CKT NO.					
		A	B									A	B							
1	RECTIFIER #1	0.96	-	30/2	8#8, 1#8G - 2"C						30/2	0.96	-	RECTIFIER #4	2					
3		-	0.96									-	0.96		4					
5	RECTIFIER #2	0.96	-	30/2							30/2	0.96	-	RECTIFIER #5	6					
7		-	0.96									-	0.96		8					
9	RECTIFIER #3	0.96	-	30/2							30/2	0.96	-	RECTIFIER #6	10					
11		-	0.96									-	0.96		12					
13	RECTIFIER #7	0.96	-	30/2							30/2	0.96	-	RECTIFIER #8	14					
15		-	0.96									-	0.96		16					
17	SPACE	-	-															-	SPACE	18
19	SPACE	-	-															-	SPACE	20
21	SPACE	-	-															-	SPACE	22
23	SPACE	-	-															-	SPACE	24
25	SPACE	-	-										1/2"	#12	#12	20/1	0.68	-	EXT. LIGHT/RECEPTACLE	26
27	SPACE	-	-										1/2"	#12	#12	20/1	-	0.2	BATTERY CHARGER	28
29	DUPLEX RECEPTACLE	0.18	-	20/1	#12	#12	1/2"	1/2"	#12	#12	20/1	0.8	-	BLOCK HEATER	30					
SUB TOTAL KVA (CONT)		0	0									0	0	SUB TOTAL KVA (CONT)						
SUB TOTAL KVA (NON-CONT)		4.0	3.8									5.3	4.0	SUB TOTAL KVA (NON-CONT)						
TOTAL KVA														TOTAL AMPS						
NON-CONT + 125% CONT.		17.2				71.8														

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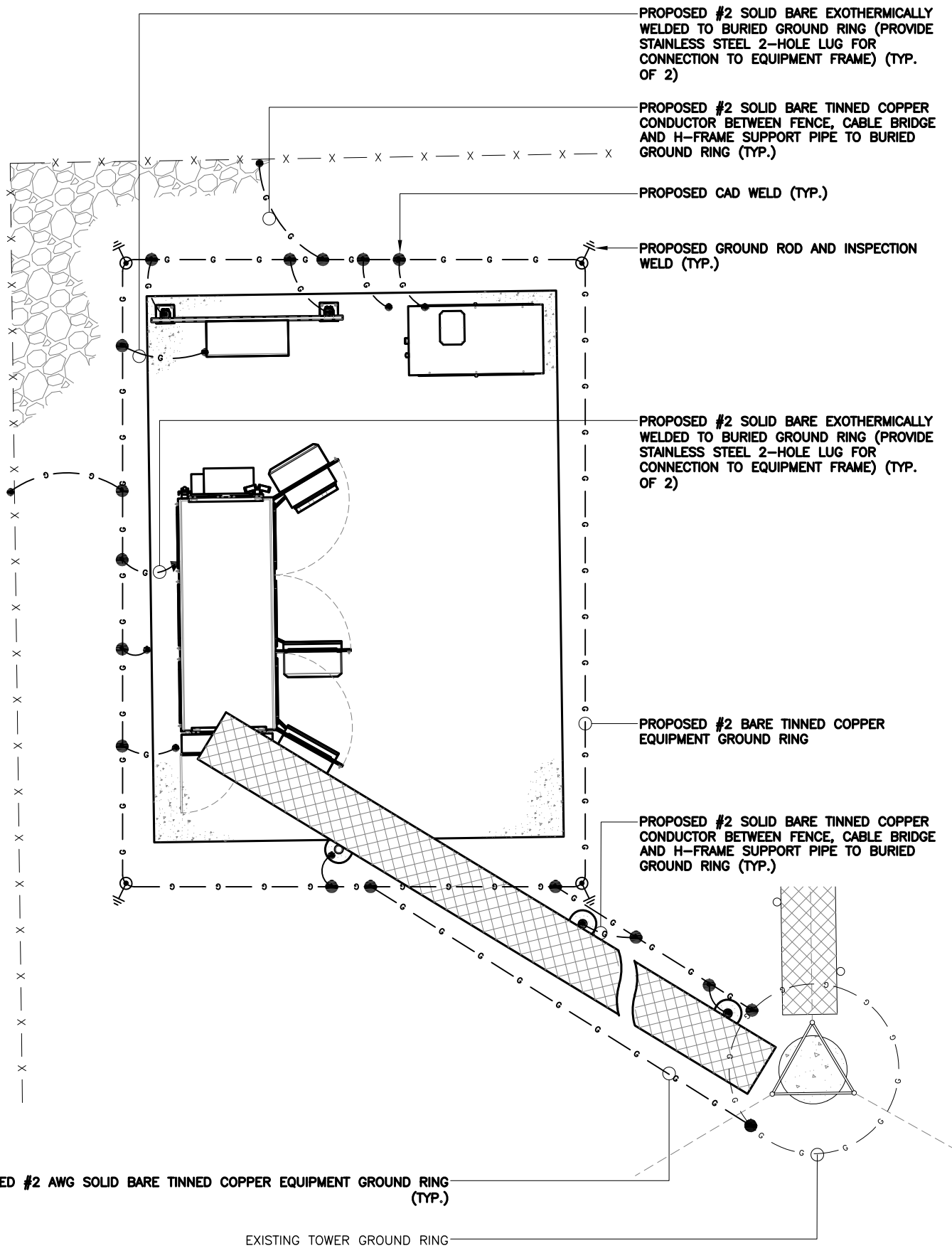


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LULU (SBA)  
FIXED ASSET: 10579357  
120 SE COMMUNITY DRIVE  
LULU, FL 32061

SHEET NAME  
ELECTRICAL DETAILS

SHEET NUMBER  
E4



2  
E6

3  
E6

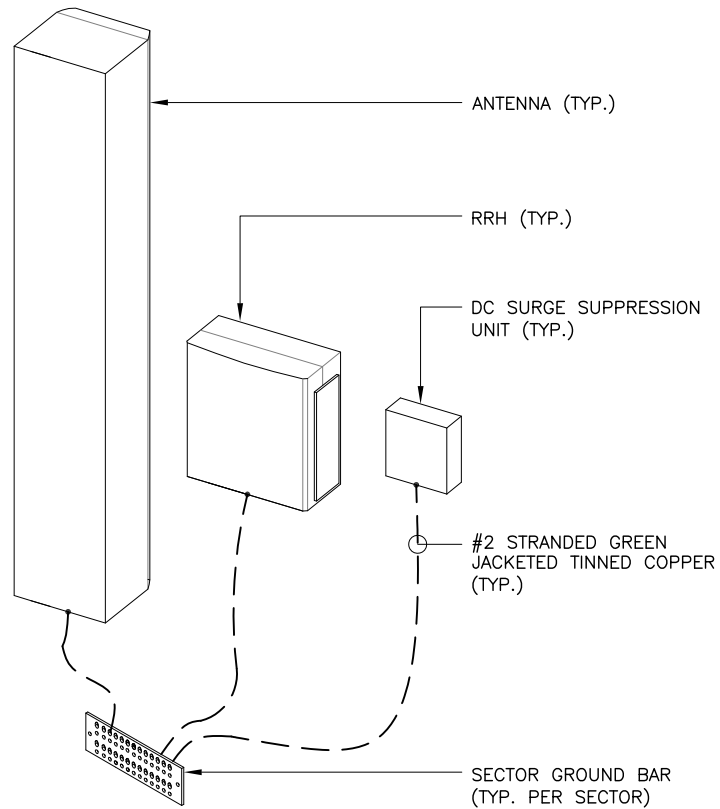
NOTES:

1. CONTRACTOR SHALL REFER TO AT&T GROUNDING AND BONDING PRACTICE TP-76416.
2. PROVIDE WEATHER PROOFING AND GROUNDING KIT TO BOND DC POWER CABLE SHIELD TO EXTERNAL HATCH PLATE GROUND BAR.

ANTENNA GROUNDING DIAGRAM

NTS 2

1. CONTRACTOR SHALL REFER TO AT&T GROUNDING AND BONDING PRACTICE TP-76416.
2. PROVIDE WEATHER PROOFING AND GROUNDING KIT TO BOND DC POWER CABLE SHIELD TO EXTERNAL HATCH PLATE GROUND BAR.
3. THIS GROUNDING DETAIL IS DIAGRAMMATIC, DEPICTING THE ELEMENTS THAT NEED TO BE GROUNDED AND IS NOT AN EXACT REPLICATION OF THE PROPOSED EQUIPMENT. THE CONTRACTOR SHALL GROUND THESE ELEMENTS AS NEEDED AND IN SUCH A MANNER THAT IS FEASIBLE TO THE EXISTING CONDITIONS OF THE EQUIPMENT CONFIGURATION.
4. SYSTEM GROUND RESISTANCE SHALL NOT EXCEED 0.5 OHMS. A SYSTEM RESISTANCE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AT&T SPECIFICATION.
  - 4.1 PERFORM THREE TESTS AT EACH SITE.
  - 4.2 CONTRACTOR SHALL PROVIDE A WRITTEN REPORT CONSISTING OF THE FOLLOWING: SITE NAME, ADDRESS AND IDENTIFICATION NUMBER, MODEL NUMBER OF TESTING EQUIPMENT, DATE OF LAST CALIBRATION, SITE SKETCH SHOWING LOCATION OF TEST PROBES, AND ALL FIELD DATA COLLECTED (READINGS, RANGE, TESTS, MILLIAMPS, ETC).
  - 4.3 CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES PERFORMING SYSTEM RESISTANCE TESTS OR IF MEASUREMENTS ARE ABOVE 5 OHMS. THE CONSTRUCTION MANAGER SHALL PROVIDE INSTRUCTIONS TO THE CONTRACTOR TO INSTALL ADDITIONAL GROUNDING MEASURES TO MEET THE 0.5 OHMS REQUIREMENT.
5. INSTALL 5/8 INCH x 10 FOOT LONG COPPERCLAD STEEL GROUND RODS. SPACING BETWEEN RODS NOT TO EXCEED 16 FEET (NON-LINEAR). TYPICAL FOR ALL GROUND RODS SHOWN, UNLESS NOTED OTHERWISE. SEE GROUND ROD DETAIL. GROUND ROD MAY BE INSTALLED WITH A MAXIMUM VARIATION OF 30 DEGREES FROM VERTICAL IF ROCK IS ENCOUNTERED AND CONTRACTOR SHALL BE PREPARED TO CORE DRILL TO INSTALL GROUND RODS AND BACKFILL WITH GROUND ENHANCEMENT MATERIAL.



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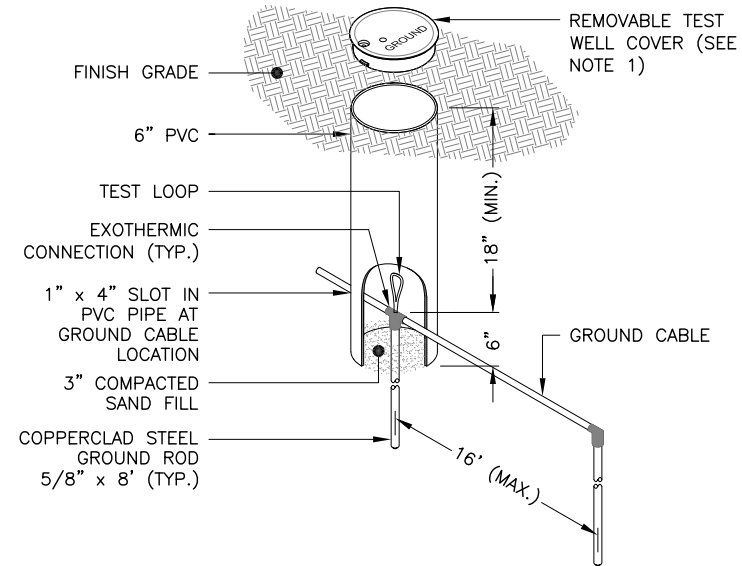
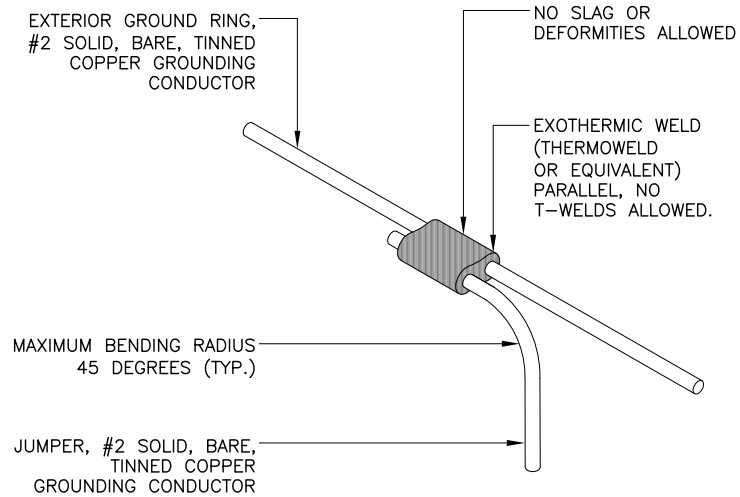
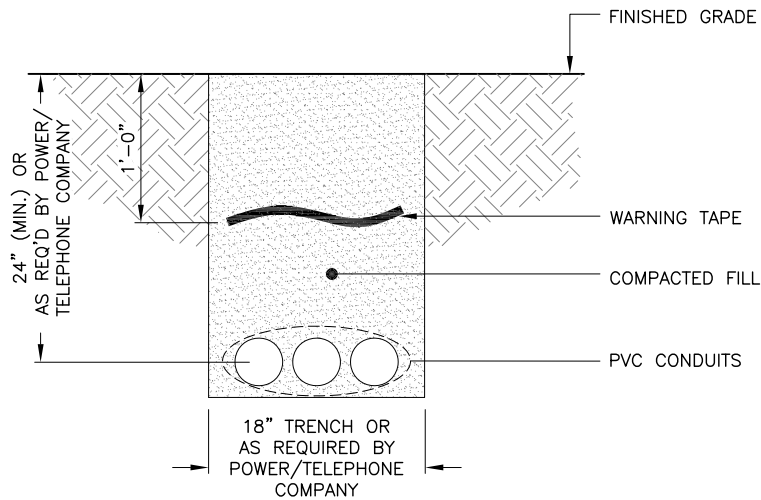
SHEET NAME

GROUNDING DIAGRAMS  
AND NOTES

SHEET NUMBER

E5





- NOTES:**
- CONTRACTOR SHALL PROVIDE PRE-CAST CONCRETE INSPECTION WELL WITH CAST IRON TRAFFIC RATED LID WHEN WELL WILL BE IN AN AREA WHERE THEY CAN BE DAMAGED
  - ALL WORK SHALL CONFORM TO THE LOCAL BUILDING CODES. DEPTH MAY VARY.

TRENCH DETAIL

NTS

1

CAD WELD DETAIL

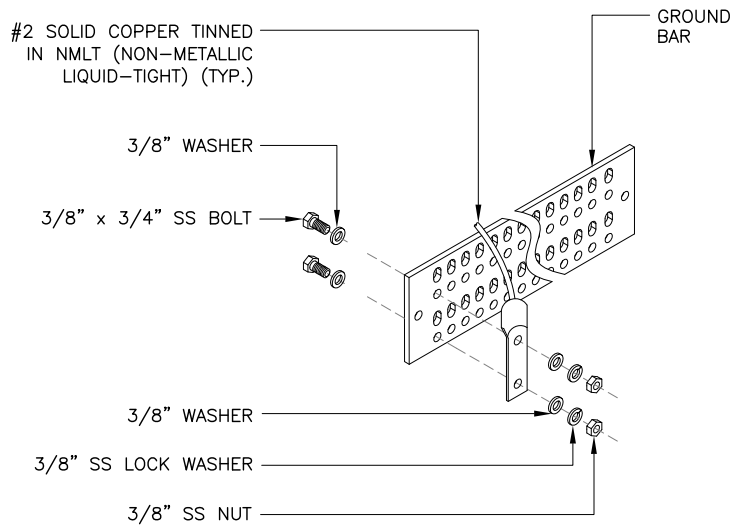
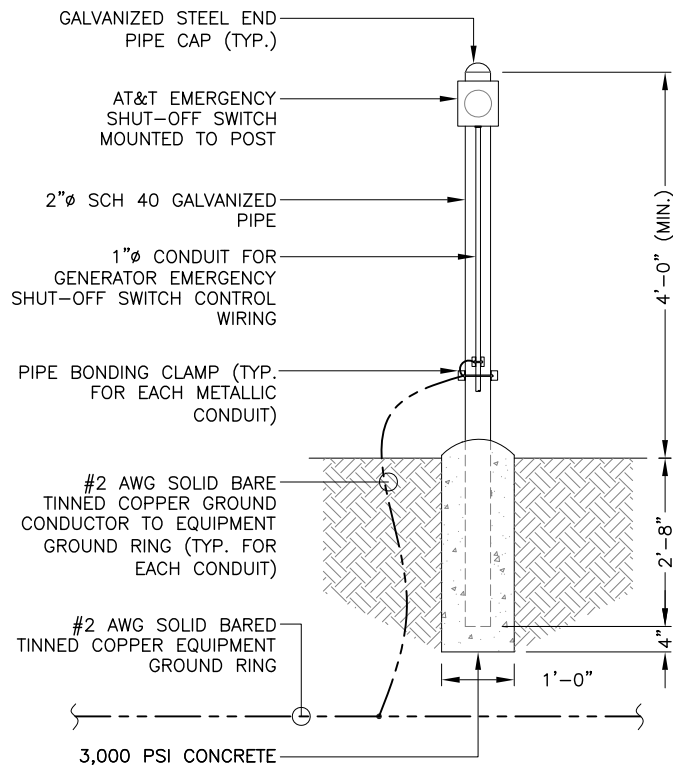
NTS

2

GROUND ROD INSPECTION WELL DETAIL

NTS

3



EMERGENCY SHUT-OFF SWITCH DETAIL

NTS

4

GROUND BAR DETAIL

NTS

5

(NOT USED)

6

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DRAWN BY:	A. WARREN
CHECKED BY:	M. ABBEY

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(954) 744-1538

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LULU (SBA)

FIXED ASSET: 10579357

120 SE COMMUNITY DRIVE  
LULU, FL 32061

SHEET NAME

GROUNDING DETAILS

SHEET NUMBER

E6