



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: FIVE POINTS
ATC SITE NUMBER: 2543
VERIZON SITE NAME: ATC FIVE POINTS
VERIZON SITE NUMBER:131297
SITE ADDRESS: 3501 N US HWY 441
LAKE CITY, FL 32055



LOCATION MAP

VERIZON
ANTENNA AMENDMENT DRAWINGS

Scott
Fletcher

Digitally signed by
Scott Fletcher
Date: 2021.09.24
13:13:25 -04'00'

COMPLIANCE CODE	PROJECT SUMMARY		PROJECT DESCRIPTION	SHEET INDEX				
<p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <p>1. 2020 FLORIDA BUILDING CODE, 7TH EDITION</p> <p>2. ANSI/TIA-222-H</p> <p>3. 6TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA 70)</p> <p>4. 2014 NATIONAL ELECTRICAL CODE</p> <p>5. BASIC WIND SPEED: 129 MPH (3-SECOND GUST)</p> <p>6. CITY/COUNTY ORDINANCES</p>	<p><u>SITE ADDRESS:</u></p> <p>3501 N US HWY 441</p> <p>LAKE CITY, FL 32055</p> <p>COUNTY: COLUMBIA</p> <p><u>GEOGRAPHIC COORDINATES:</u></p> <p>LATITUDE: 30.23820833</p> <p>LONGITUDE: -82.63682222</p> <p>GROUND ELEVATION: 148' AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:</p> <p>REMOVE (9) ANTENNA(s) AND (2) 1-5/8" COAX CABLE(s)</p> <p>INSTALL (9) ANTENNA(s), (6) RRH(s), (3) DIPLEXER(s) AND (2) OVP(s)</p> <p>EXISTING (10) 1-5/8" COAX CABLE(s), AND (2) 1-5/8" HYBRID CABLE(s) TO REMAIN</p> <p><u>GROUND WORK:</u></p> <p>REMOVE (2) 6101 CABINET(S), (1) ATS(S), (1) 30KW GENERATOR(S), (1) PPC(S), AND BATTERIES.</p> <p>INSTALL (1) CONSOLIDATED EQUIPMENT AND POWER CABINET(S), (1) 50KW GENERATOR(S), (1) 200A ILC(S), (1) POWERPLANT, (5) STRINGS AT 48V(S) AND (2) STRINGS AT 24V FOR CDMA OF DEKA 170ET./BRS</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
	G-001		TITLE SHEET	1	09/24/21	TC		
	G-002		GENERAL NOTES	0	09/21/21	TC		
	C-101		DETAILED SITE PLAN	0	09/21/21	TC		
	C-102		GROUND EQUIPMENT LAYOUT	0	09/21/21	TC		
	C-201		TOWER ELEVATION	0	09/21/21	TC		
	C-401		ANTENNA INFORMATION & SCHEDULE	0	09/21/21	TC		
	C-501		CONSTRUCTION DETAILS	0	09/21/21	TC		
	C-502		CONSTRUCTION DETAILS	0	09/21/21	TC		
	E-101		CONDUIT LAYOUT	0	09/21/21	TC		
E-501	GROUNDING DETAILS	0	09/21/21	TC				
E-601	ONE-LINE DIAGRAM	0	09/21/21	TC				
E-602	PANEL SCHEDULE AND ELECTRICAL DETAILS	0	09/21/21	TC				
R-601	SUPPLEMENTAL							
R-602	SUPPLEMENTAL							
R-603	SUPPLEMENTAL							
R-604	SUPPLEMENTAL							

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)

B. AC/TELCO INTERFACE BOX (PPC)

C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)

D. TOWERS, MONOPOLES

E. TOWER LIGHTING

F. GENERATORS & LIQUID PROPANE TANK

G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING

H. ANTENNAS (INSTALLED BY OTHERS)

I. TRANSMISSION LINE

J. TRANSMISSION LINE JUMPERS

K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS

L. TRANSMISSION LINE GROUND KITS

M. HANGERS

N. HOISTING GRIPS

O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND

B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS

D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.

E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.

F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



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COA: 9053

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
△0	FOR CONSTRUCTION	TC	09/21/21
△1			
△2			
△3			
△4			

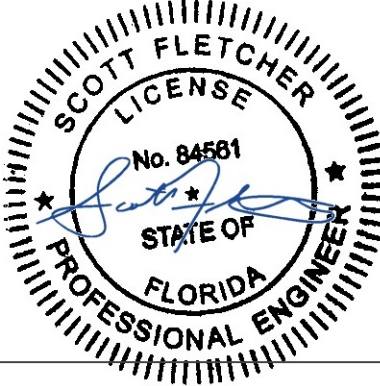
ATC SITE NUMBER:
2543

ATC SITE NAME:
FIVE POINTS

VERIZON SITE NAME:
ATC FIVE POINTS

SITE ADDRESS:
3501 N US HWY 441
LAKE CITY, FL 32055

SEAL:



DATE DRAWN:	09/21/21
ATC JOB NO:	13686745_D1
CUSTOMER ID:	ATC FIVE POINTS
CUSTOMER #:	131297

GENERAL NOTES

SHEET NUMBER:

G-002

REVISION:

0

SITE PLAN NOTES:

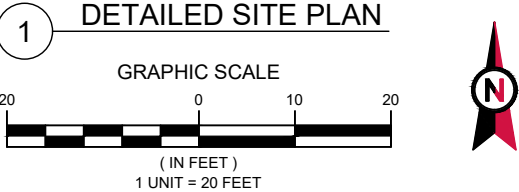
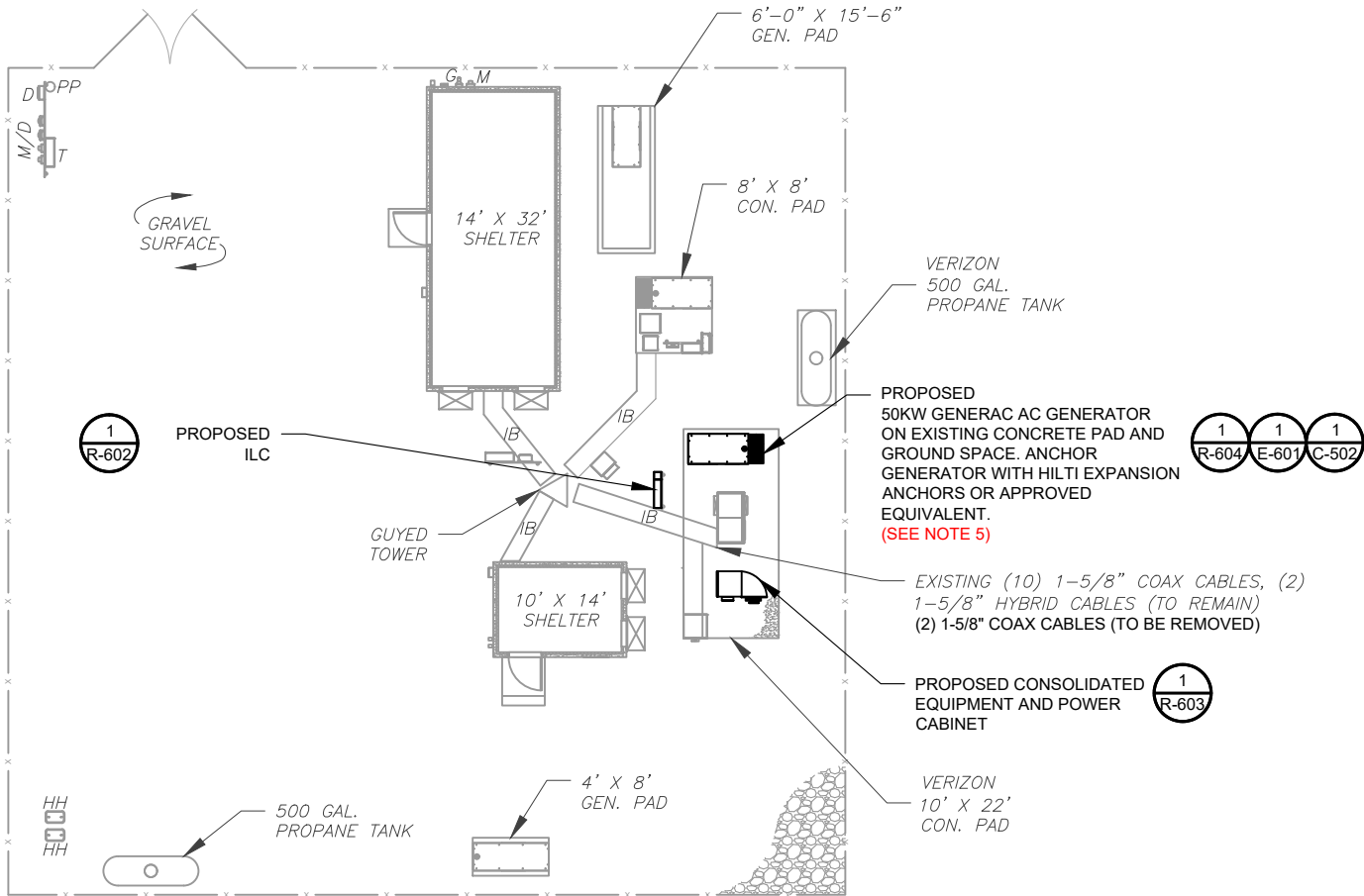
1.

THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2.

ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3.

THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
— x —	CHAINLINK FENCE





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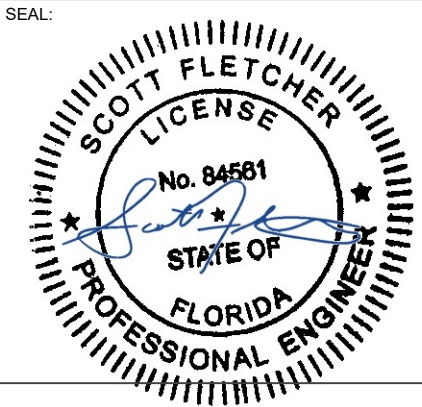
REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TC	09/21/21
1			
2			
3			
4			

ATC SITE NUMBER:
2543

ATC SITE NAME:
FIVE POINTS

VERIZON SITE NAME:
ATC FIVE POINTS

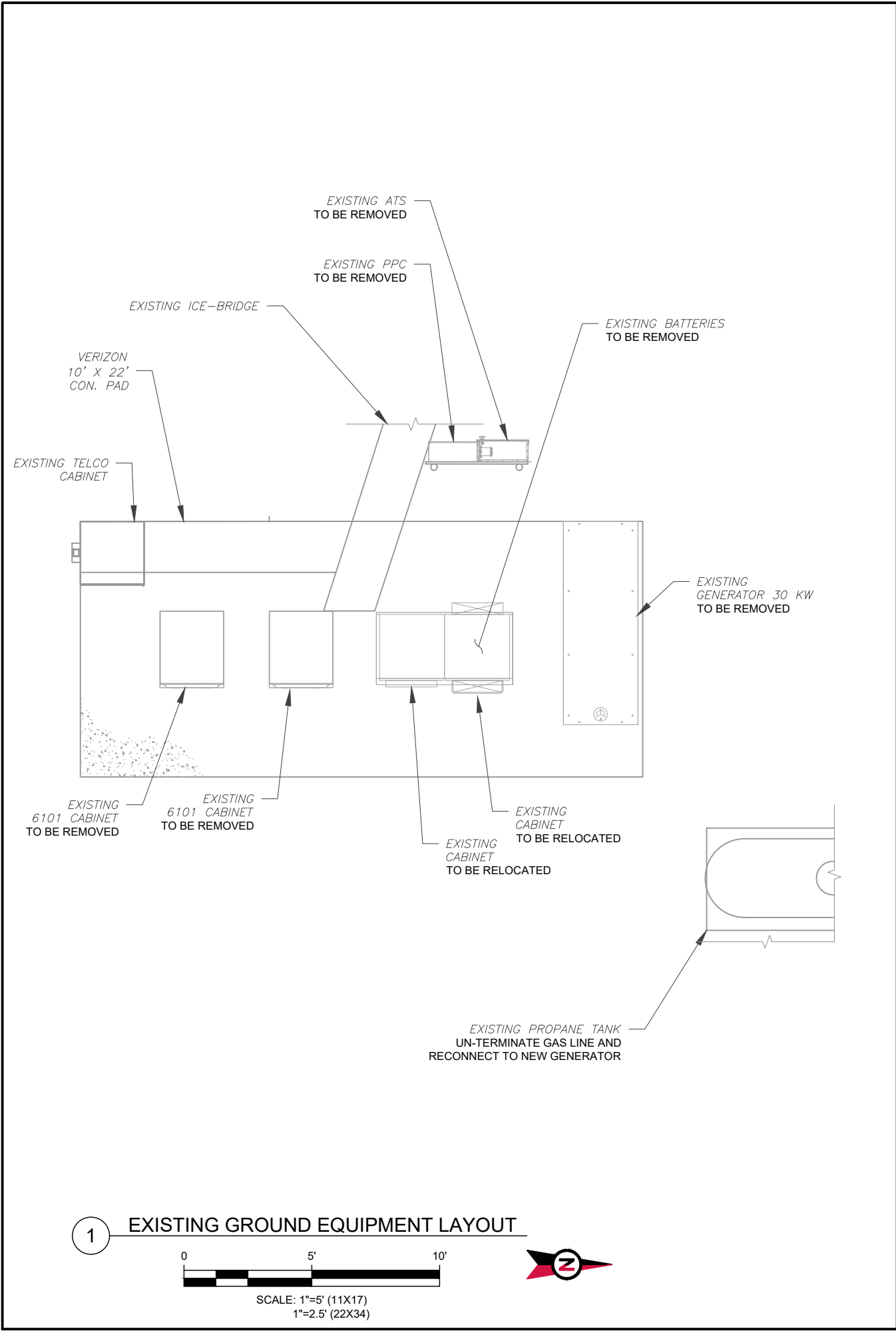
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DETAILED SITE PLAN

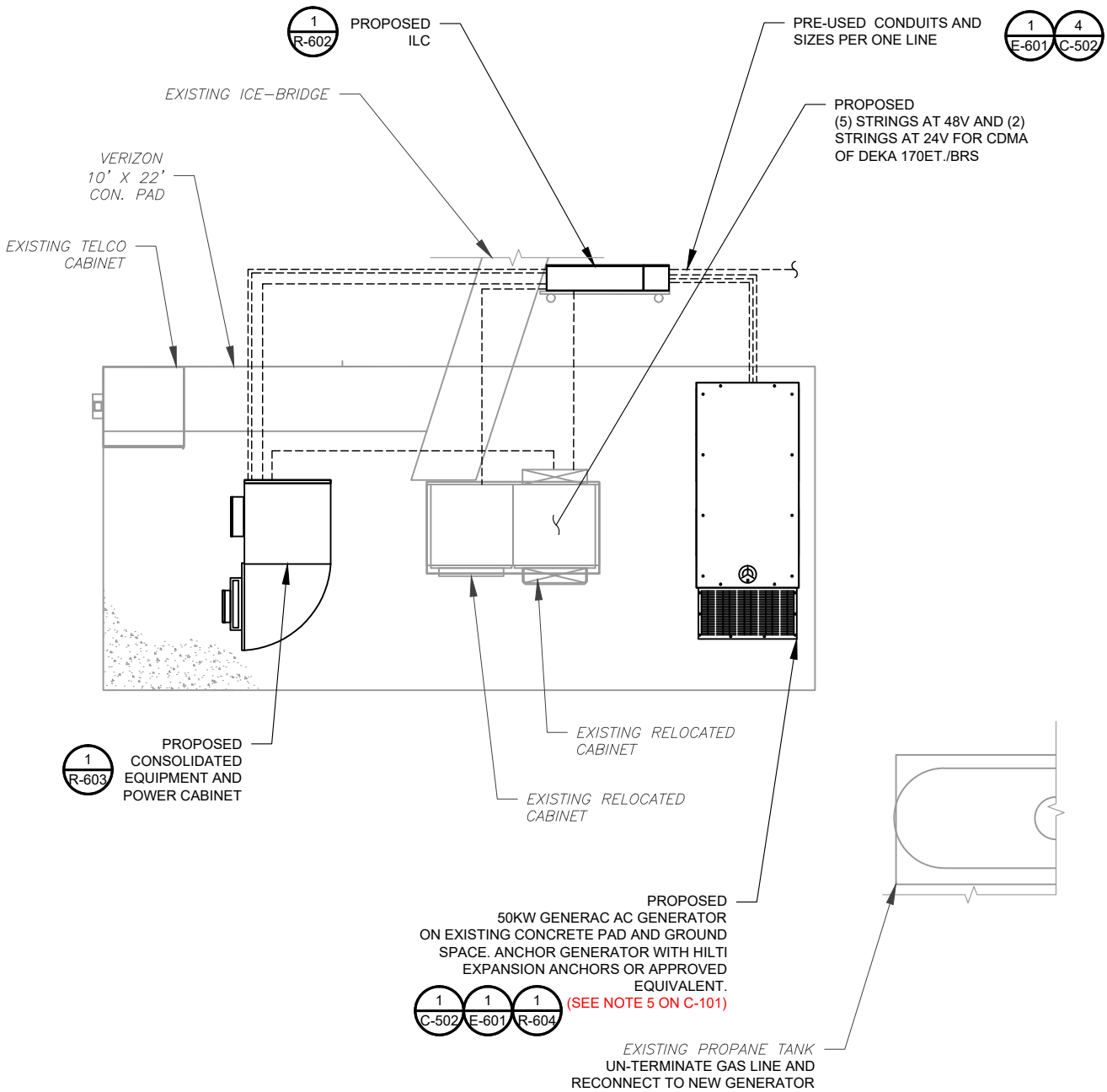
SHEET NUMBER:	REVISION:
C-101	0



VERIZON CM APPROVAL REQUIRED
BEFORE INSTALLING CABINETS

SOW:

1. INSTALL CONSOLIDATED EQUIPMENT AND POWER CABINET.
2. REMOVE (2) 6101 CABINET.
3. INSTALL NEW 200A ILC ON EXISTING H-FRAME OR EXTENSION.
4. REPLACE 30KW GENERATOR WITH 50KW.
5. REMOVE PPC.
6. REPLACE EXISTING BATTERIES WITH (5) STRINGS AT 48V FOR POWERPLANT AND (2) STRINGS AT 24V FOR CDMA OF DEKA 170ET./BRS



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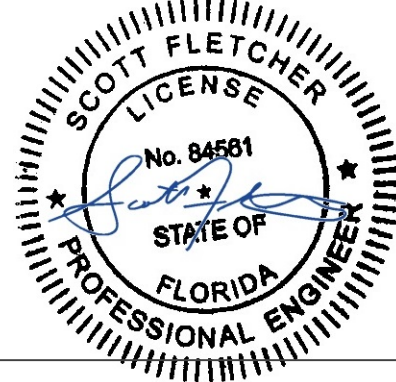
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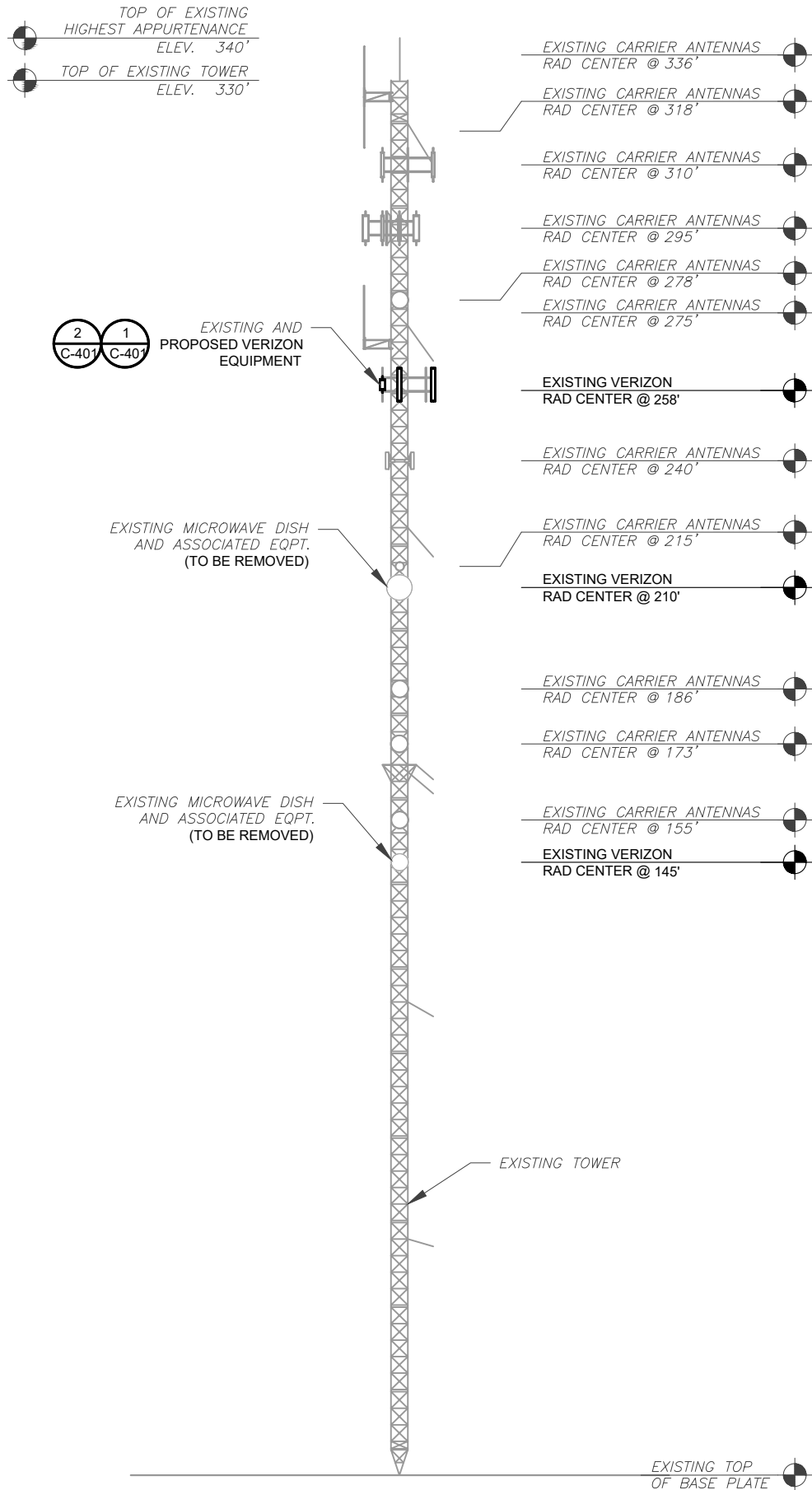
GROUND EQUIPMENT
LAYOUT

SHEET NUMBER:

C-102

REVISION:

0



PER MOUNT ANALYSIS COMPLETED BY TECTONIC, D.P.C., DATED 05/20/21, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
 - WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
 - TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)



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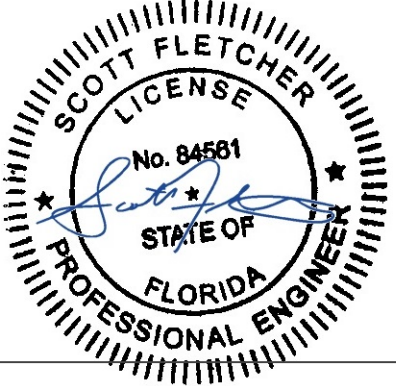
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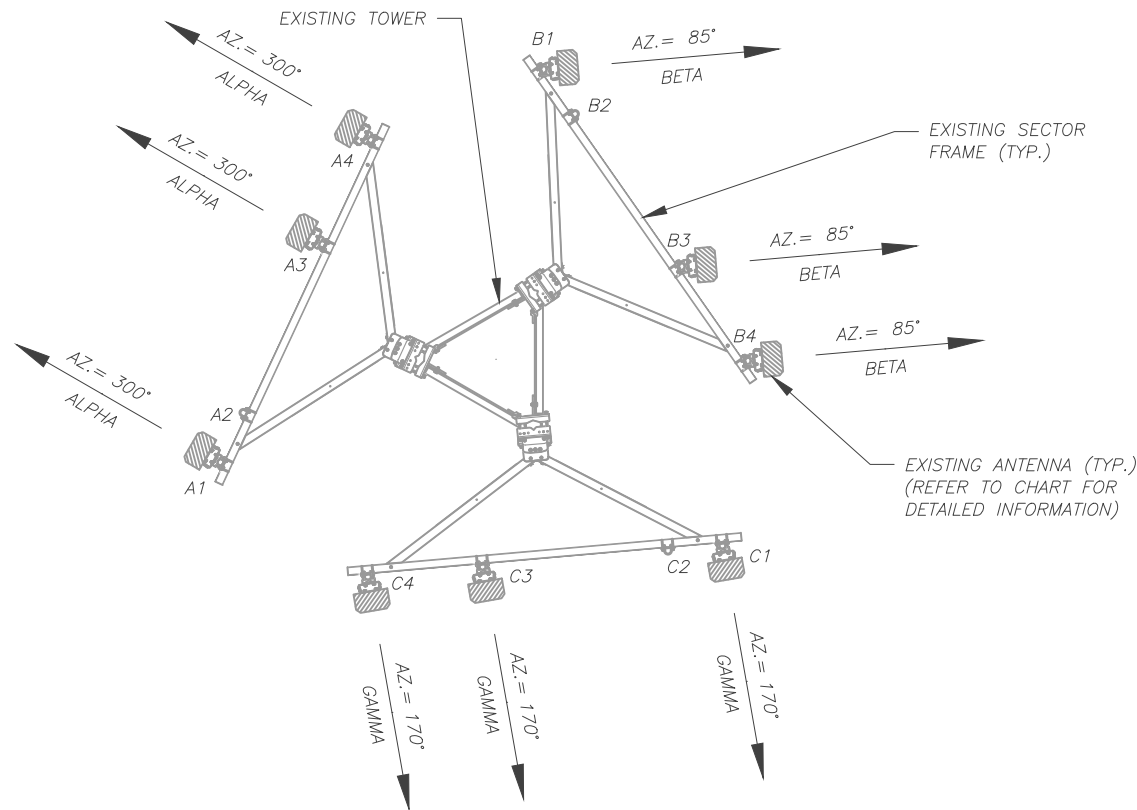
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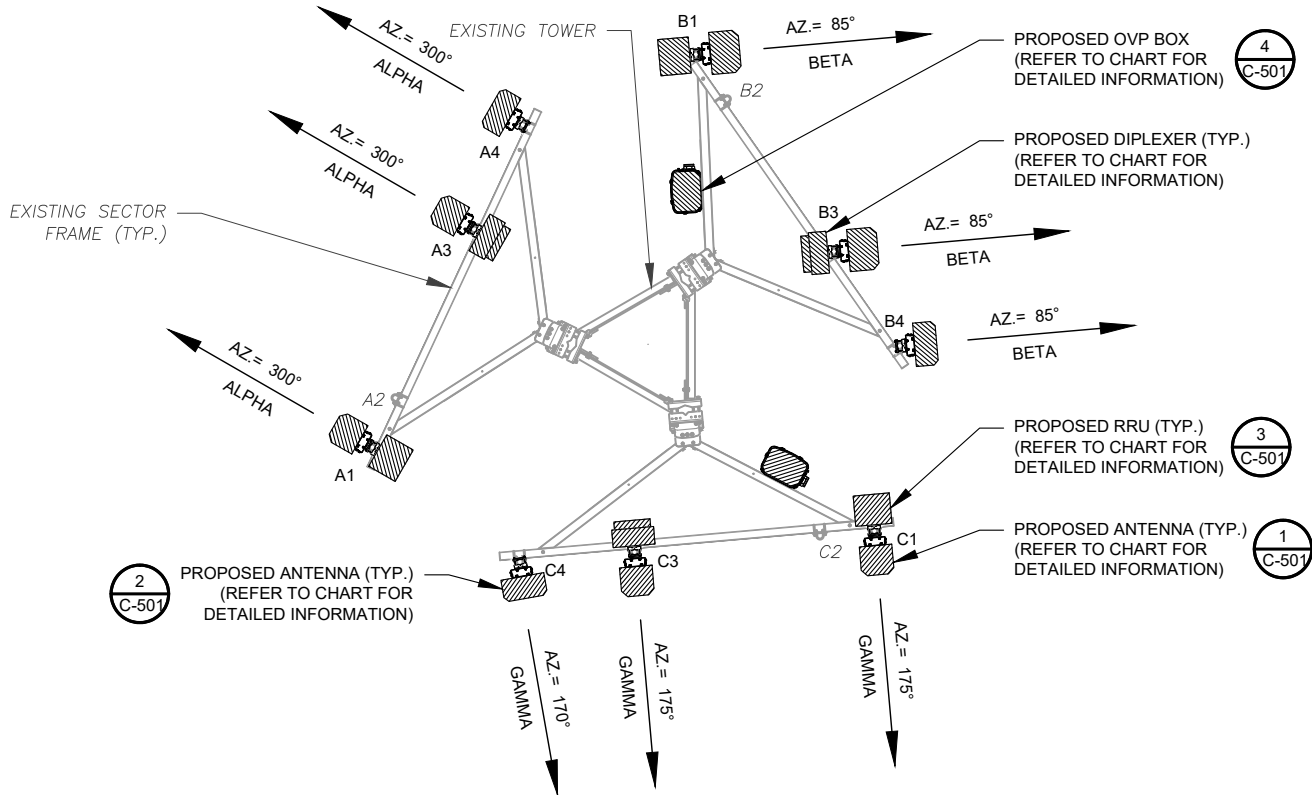
TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0



1 EXISTING ANTENNA PLAN
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY
TECTONIC, D.P.C., DATED 05/20/21, THE EXISTING
MOUNT CAN ADEQUATELY SUPPORT THE
PROPOSED LOADING.



2 FINAL ANTENNA PLAN
SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH-ELEC TILT (DEG)	STATUS	ADDL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	258.0	300	A1	X7-965	700 LTE	-	RMV	-	-
			A2	-	--	----	-	-	-
			A3	X7CAP-865	850 CDMA	-	RMV	-	-
			A4	X7CAP-865	850 CDMA	-	RMV	-	-
BETA		85	B1	X7-865	700 LTE	-	RMV	-	-
			B2	-	--	----	-	-	-
			B3	X7CAP-865	850 CDMA	-	RMV	-	-
			B4	X7CAP-865	850 CDMA	-	RMV	-	-
GAMMA		170	C1	X7-865	700 LTE	-	RMV	-	-
			C2	-	--	----	-	-	-
			C3	X7CAP-865	850 CDMA	-	RMV	-	-
			C4	X7CAP-865	850 CDMA	-	RMV	-	-

EXISTING FIBER DIST/SQUID			EXISTING CABLING SUMMARY		
QTY	MODEL NUMBER	STATUS	QTY	LINE SIZE	STATUS
-	-	RMN	10	1 5/8" COAX	RMN
-	-	RMV	2	1 5/8" HYBRIFLEX	RMN
-	-	RMV	2	1 5/8" COAX	RMV

- NOTES
- CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
 - CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
- STATUS ABBREVIATIONS
- RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS
JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

3 EQUIPMENT SCHEDULES

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REV.	DESCRIPTION	BY	DATE
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2			
3			
4			

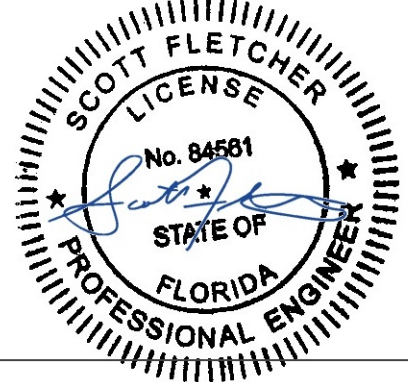
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2543

ATC SITE NAME:
FIVE POINTS

VERIZON SITE NAME:
ATC FIVE POINTS

SITE ADDRESS:
3501 N US HWY 441
LAKE CITY, FL 32055

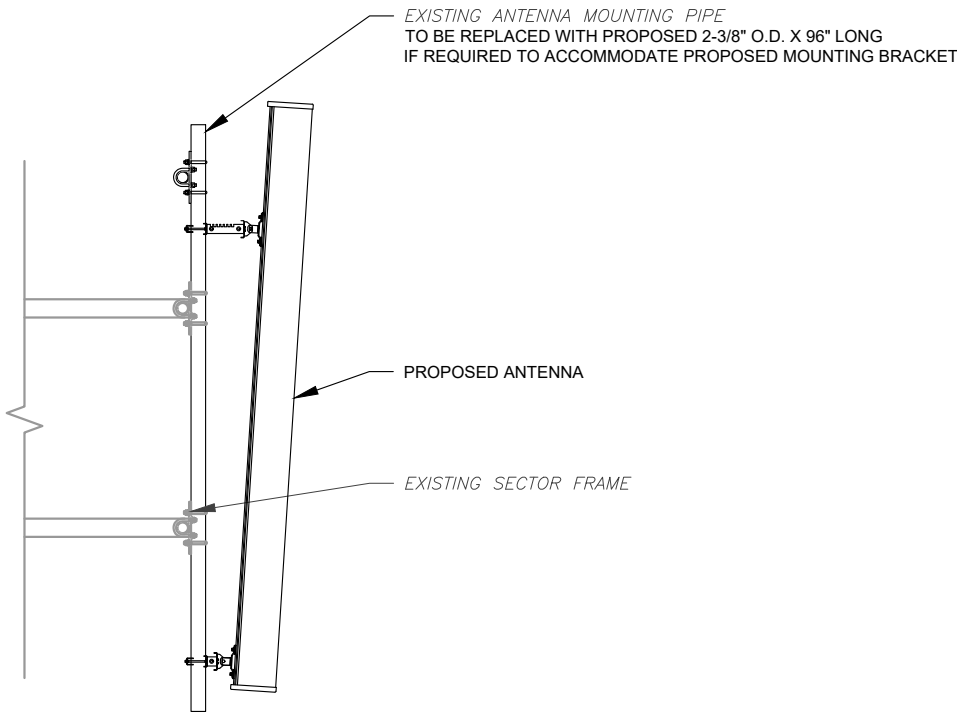
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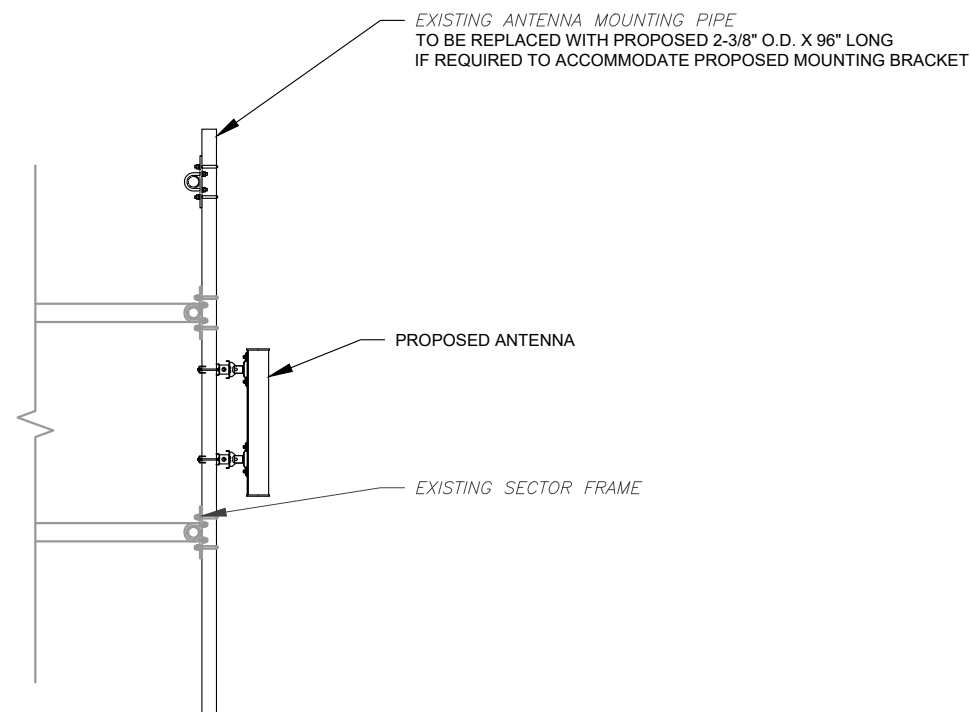
DATE DRAWN:	09/21/21
ATC JOB NO:	13686745_D1
CUSTOMER ID:	ATC FIVE POINTS
CUSTOMER #:	131297

ANTENNA INFORMATION & SCHEDULE

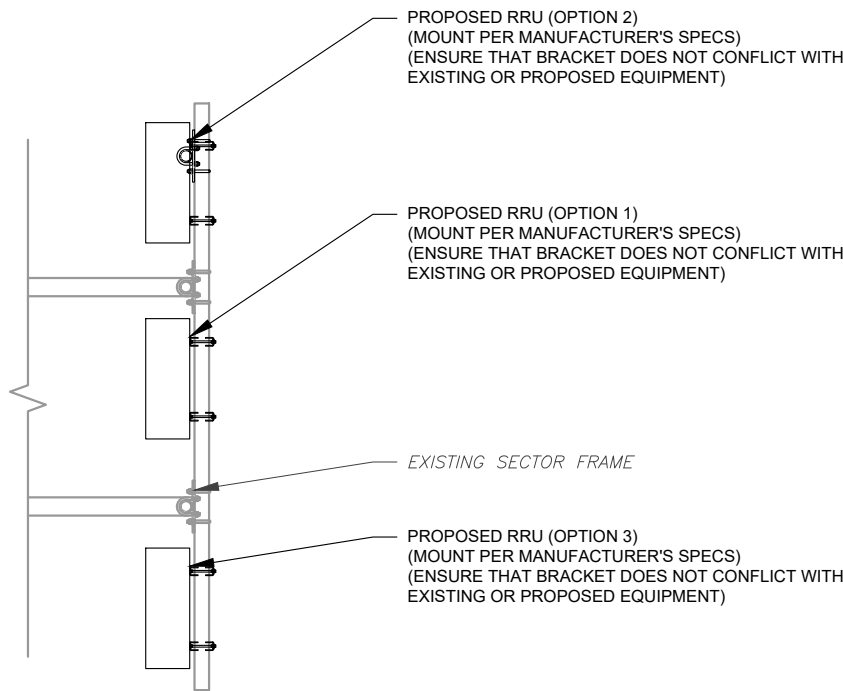
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C-401	0



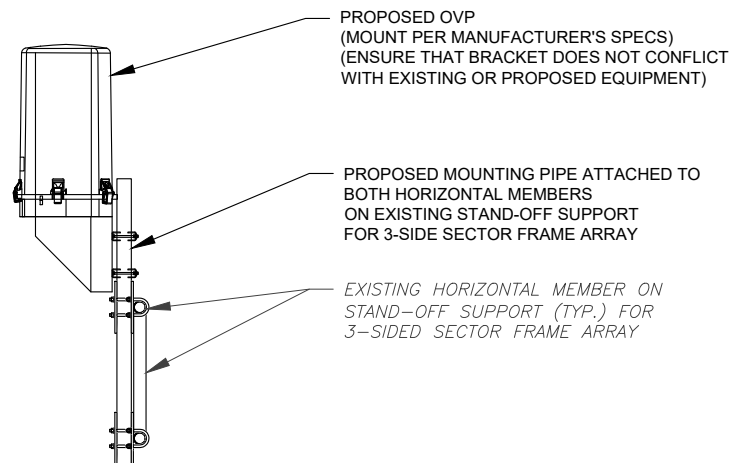
1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



4 PROPOSED OVP MOUNTING
SCALE: N.T.S.



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ATC TOWER SERVICES, LLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
COA: 9053

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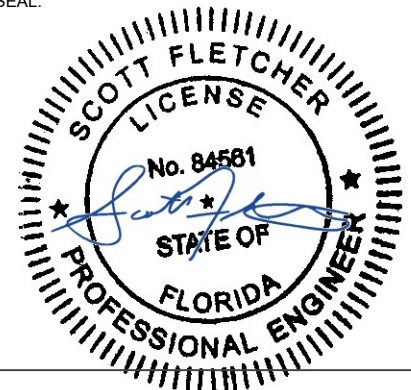
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2543

ATC SITE NAME:
FIVE POINTS

VERIZON SITE NAME:
ATC FIVE POINTS

SITE ADDRESS:
3501 N US HWY 441
LAKE CITY, FL 32055

SEAL:



DATE DRAWN:	09/21/21
ATC JOB NO:	13686745_D1
CUSTOMER ID:	ATC FIVE POINTS
CUSTOMER #:	131297

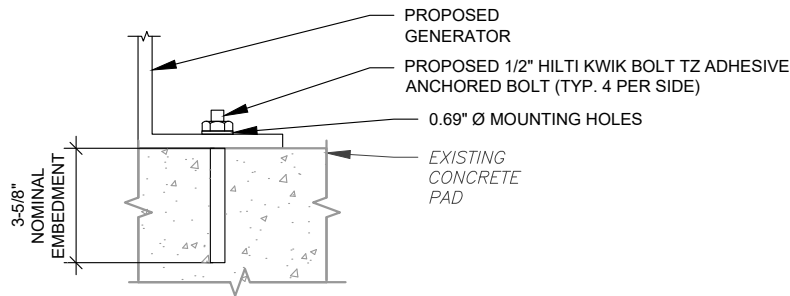
CONSTRUCTION
DETAILS

SHEET NUMBER:

C-501

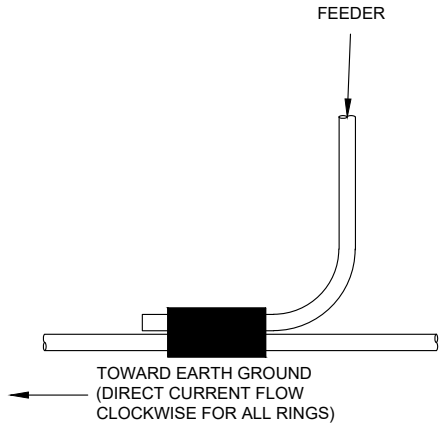
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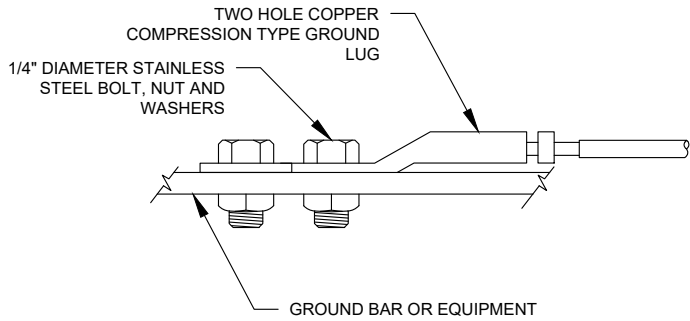


NOTE:
INSTALL HILTI KWIK BOLT TZ ANCHORS STRICTLY PER
INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR
FOUND ONLINE AT WWW.US.HILTI.COM. PROPER
INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

1 GENERATOR ATTACHMENT DETAIL
SCALE: NOT TO SCALE

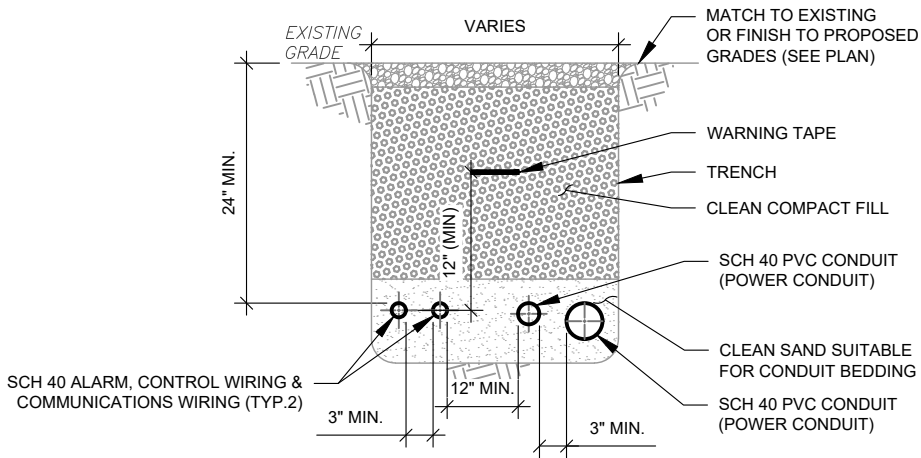


2 GENERATOR CONDUCTOR CONNECTION
SCALE: NOT TO SCALE



NOTE:
ALL MECHANICAL EXTERNAL TERMINATION SURFACES SHALL
BE TREATED WITH T&B KOPR-SHIELD CP8 ANIT-OXIDATION
COMPOUND.

3 TWO HOLE LUG CONNECTION DETAIL
SCALE: NOT TO SCALE



- TRENCH NOTES:
- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
 - IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
 - IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
 - CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS
 - AC POWER CONDUITS MUST BE 3" MINIMUM FROM OTHER AC CONDUITS AND 12' MINIMUM FROM COMMUNICATIONS CONDUITS

4 GENERATOR SERVICE CONDUIT TRENCH
SCALE: NOT TO SCALE

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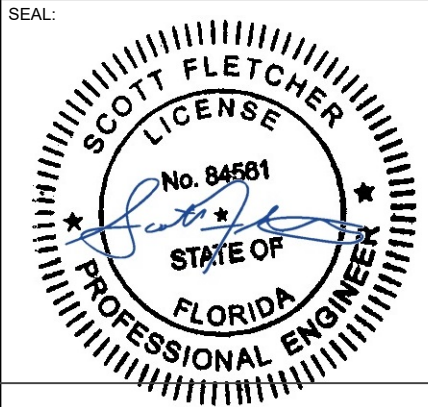
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0	FOR CONSTRUCTION	TC	09/21/21
1			
2			
3			
4			

ATC SITE NUMBER:
2543

ATC SITE NAME:
FIVE POINTS

VERIZON SITE NAME:
ATC FIVE POINTS

SITE ADDRESS:
3501 N US HWY 441
LAKE CITY, FL 32055



DATE DRAWN:	09/21/21
ATC JOB NO:	13686745_D1
CUSTOMER ID:	ATC FIVE POINTS
CUSTOMER #:	131297

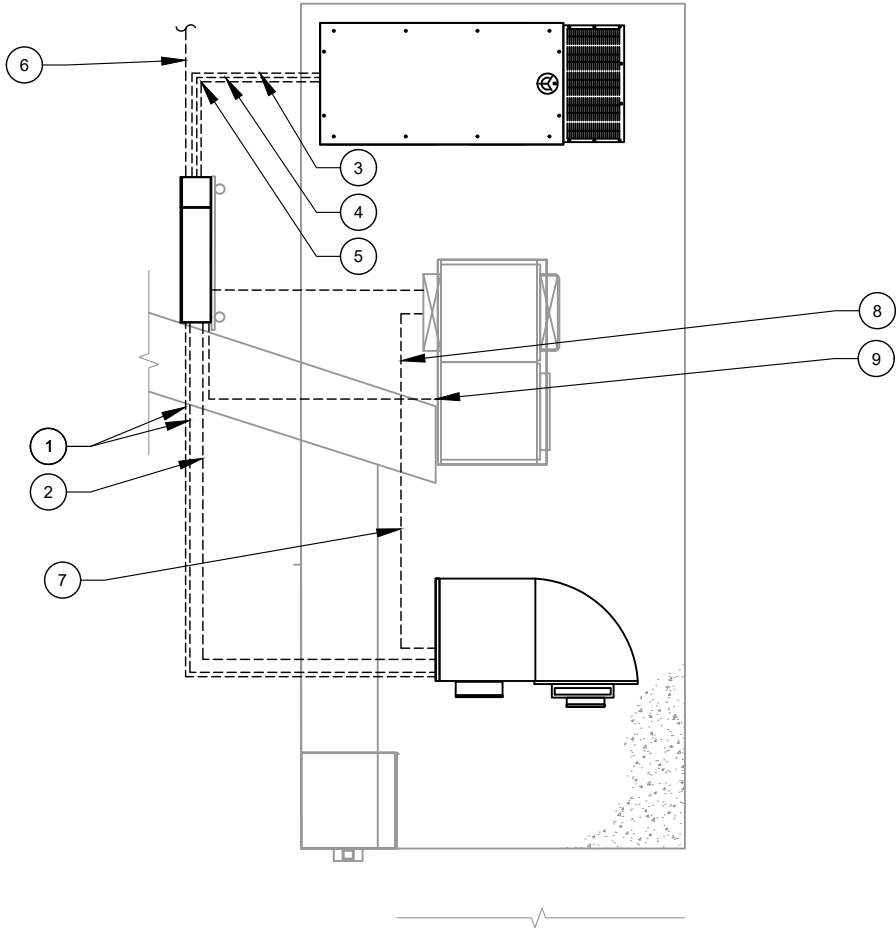
CONSTRUCTION DETAILS	
SHEET NUMBER: C-502	REVISION: 0

LABEL LIST:

- (2)-2" CONDUITS FOR RECTIFIERS IN CONSOLIDATED EQUIPMENT AND POWER CABINET
- (1)-3/4" CONDUIT FOR GENERATOR AND ILC ALARM FORM ILC TO CONSOLIDATED EQUIPMENT AND POWER CABINET
- (1)-1" CONDUIT FOR GENERATOR HEATER & BATTERY CHARGER FROM ILC TO GENERATOR
- (1)-1" CONDUIT FOR ALARM AND CONTROL WIRING FROM ILC TO GENERATOR
- (1)- 2½" CONDUIT FOR POWER FROM ILC TO GENERATOR
- (1)-2" CONDUIT FOR POWER FROM SERVICE DISCONNECT/CIRCUIT BREAKER TO ILC
- (1)-2" CONDUIT FOR BATTERY CABINET FROM CONSOLIDATED EQUIPMENT AND POWER CABINET TO BATTERY CABINET
- (1)-1" CONDUIT FOR BATTERY CABINET FROM ILC TO BATTERY CABINET. CONTRACTOR TO REUSE CONDUIT AND CONDUIT AND CONDUCTORS IF SUFFICIENTLY SIZED.
- (1)-1½" CONDUIT FOR EXISTING BTS CABINET FROM ILC TO BTS CABINET. CONTRACTOR TO REUSE CONDUIT AND CONDUIT AND CONDUCTORS IF SUFFICIENTLY SIZED.

NOTES:

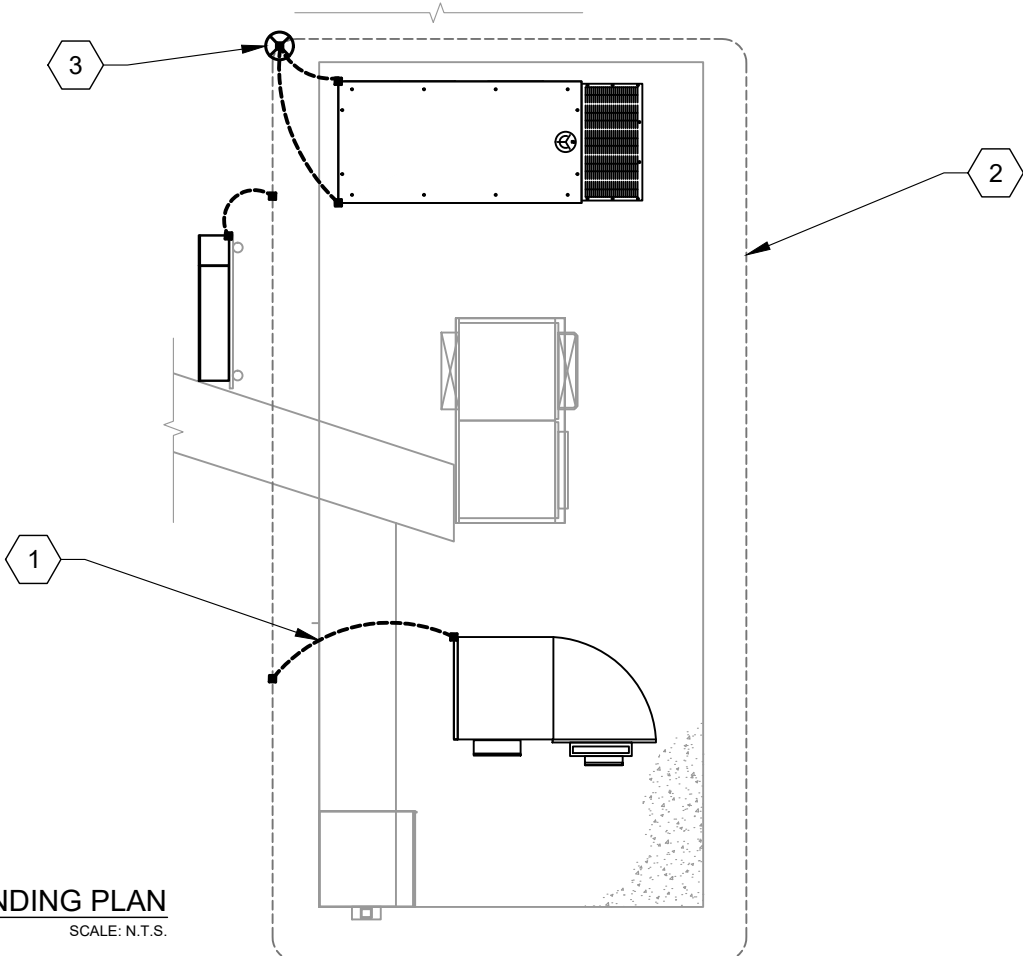
- POWER AND TELCO CONDUITS RECEIVING CONDUCTORS BY OTHERS TO HAVE PULL ROPES.
- ALL TELCO CONDUITS ARE TO BE STUBBED IN D-MARC LOCATION.
- ALL POWER CONDUITS ARE TO BE TERMINATED AT THE METER CENTER.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO TRENCHING. ANY DAMAGE CAUSED TO THE EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- ALL CONDUITS SHALL BE INSTALLED PRIOR TO FINISH GRADING, GEOFABRIC, AND STONE INSTALLATION.
- CONTRACTOR SHALL INSTALL SWEEPS AT ALL CONDUIT DIRECTION CHANGES UNLESS NOTED OTHERWISE.
- RUN CONDUITS FROM ILC TO GENERATOR UNDERGROUND AND STUB UP CONDUITS MINIMUM 6" HIGH INSIDE GENERATOR BASE AND TERMINATE WITH MALE ADAPTER AND THREADED BUSHING.
- WHEN ALL RRUs ARE GROUND MOUNTED, OMIT OVPs AND RUN FIBER/POWER FROM CONSOLIDATED EQUIPMENT AND POWER CABINET DIRECTLY TO RRUs.



1 POWER ROUTING PLAN
SCALE: N.T.S.

GROUNDING KEYED NOTES:

- GROUNDING ELECTRODE CONDUCTOR PER NEC
- EXISTING GROUND RING
- GROUNDING ELECTRODE WITH EXISTING TEST WELL



2 GROUNDING PLAN
SCALE: N.T.S.

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ATC TOWER SERVICES, LLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
COA: 9053

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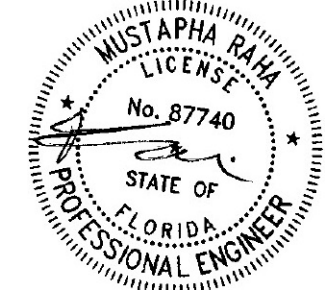
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2543

ATC SITE NAME:
FIVE POINTS

VERIZON SITE NAME:
ATC FIVE POINTS

SITE ADDRESS:
3501 N US HWY 441
LAKE CITY, FL 32055

SEAL:



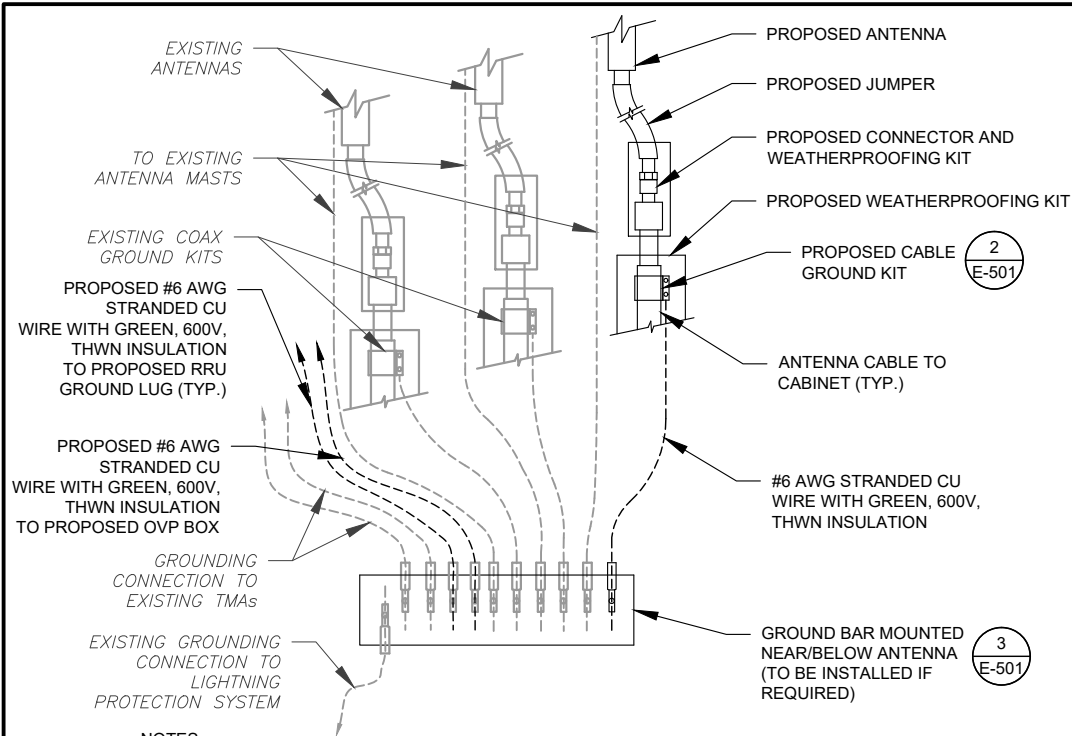
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DATE DRAWN:	09/21/21
ATC JOB NO:	13686745_D1
CUSTOMER ID:	ATC FIVE POINTS
CUSTOMER #:	131297

CONDUIT LAYOUT

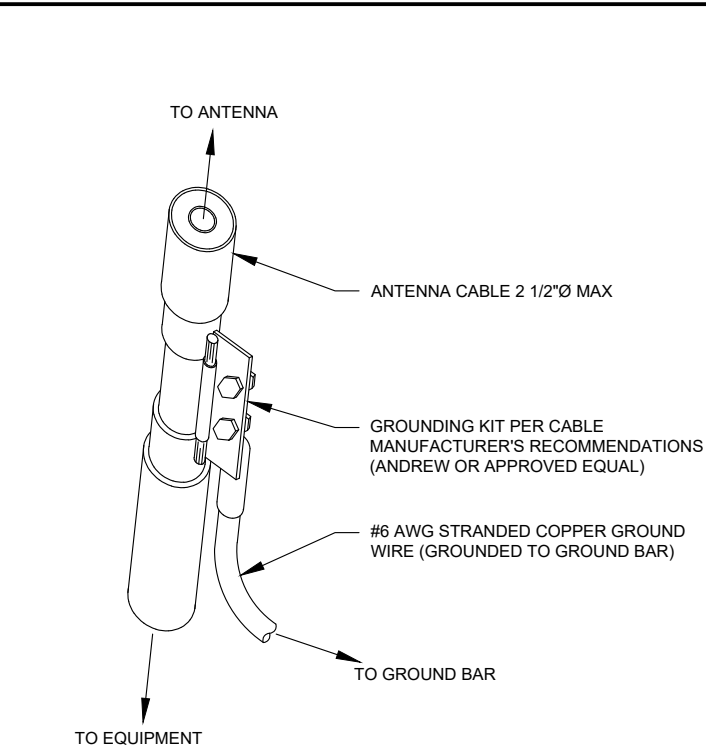
SHEET NUMBER: E-101	REVISION: 0
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NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

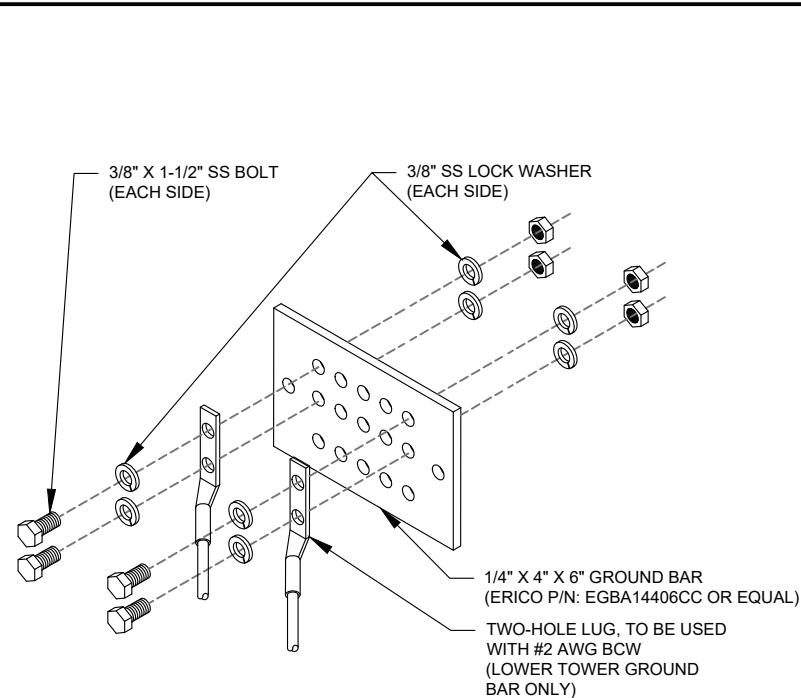
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

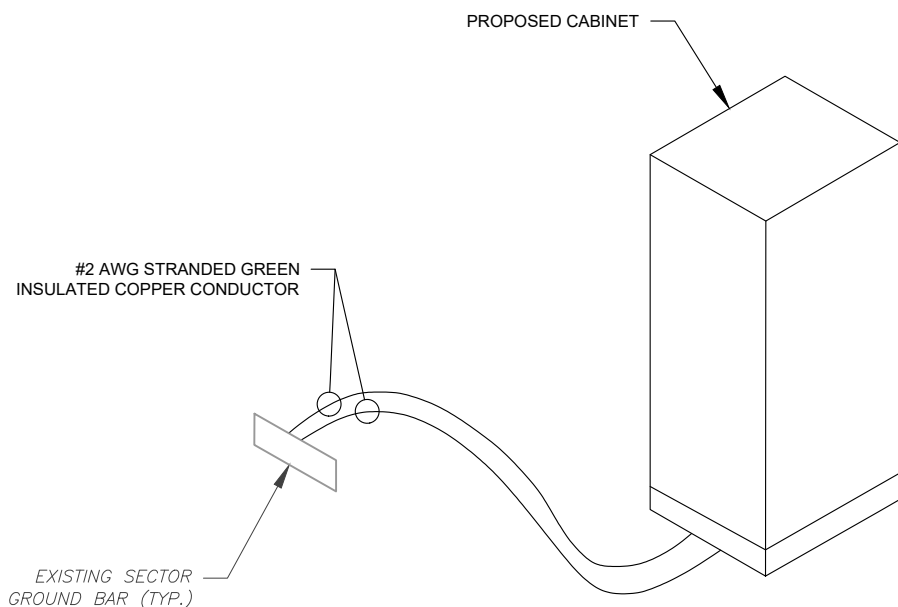
2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.



4 CABINET GROUNDING DETAIL
SCALE: N.T.S.

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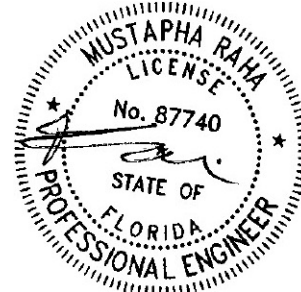
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2543

ATC SITE NAME:
FIVE POINTS

VERIZON SITE NAME:
ATC FIVE POINTS

SITE ADDRESS:
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CUSTOMER ID:	ATC FIVE POINTS
CUSTOMER #:	131297

GROUNDING DETAILS

SHEET NUMBER:

E-501

REVISION:

0



1. CONNECT CT'S PER HTS OWNERS MANUAL-SECTION 3.11.2 INSTRUMENT PACKAGE
2. SPLICE WITH "POLARIS" TAPS OR APPROVED EQUAL, SECURELY WRAPPED WITH COMMERCIAL GRADE NYLON ELECTRICAL TAPE AFTER INSTALLATION IS COMPLETE.
3. UTILIZE EXISTING ENCLOSURES FOR SPLICING (PER NEC 312.8) OR INSTALL NEW JUNCTION BOX AS APPLICABLE PER SITE CONDITIONS AND CODES. SIZE JUNCTION BOX AS PER NEC 314.28
4. EMERGENCY POWER OFF PUSHBUTTON IN WEATHERPROOF ENCLOSURE FOR REMOTE SHUTDOWN OF GENERATOR ENCLOSURE.



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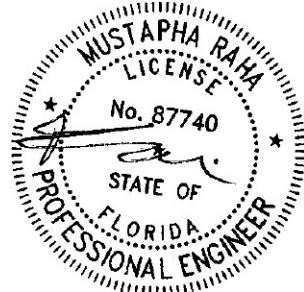
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ATC SITE NAME:
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VERIZON SITE NAME:
ATC FIVE POINTS

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SEAL:



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CUSTOMER ID:	ATC FIVE POINTS
CUSTOMER #:	131297

ONE-LINE DIAGRAM

SHEET NUMBER:

E-601

REVISION:

0



Tectonic Engineering Consultants, Geologists, & Land Surveyors,
D.P.C.
1279 Route 300
Newburgh, NY 12550
(845)567-6656
TecVZWOrders@tectonicengineering.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10057858
Tectonic Project #: 10880.129

May 20, 2021

Site Information

Site ID: 131297-VZW / ATC FIVE POINTS
Site Name: ATC FIVE POINTS
Carrier Name: Verizon Wireless
Address: 3501 N US Hwy 441
Lake City, Florida 32055, Columbia County
Latitude: 30.238208°
Longitude: -82.636822°

Structure Information

Tower Type: 330-Ft Guyed
Mount Type: 13.00-Ft T-Arm

FUZE ID # 16275915

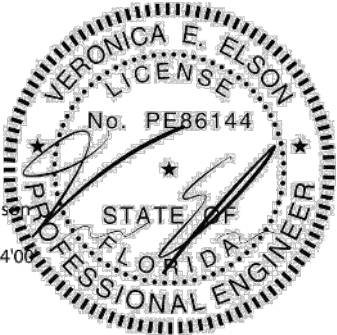
Analysis Results

T-Arm: 67.5% Pass

***Contractor PMI Requirements:
Included at the end of this MA report
Available & Submitted via portal at <https://pmi.vzwsmart.com>
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: David Powers/ Veronica Elson

Veronica Elson
2021.05.20
17:21:25 -04'00



Mount Structural Analysis Report
(3) 13.00-Ft T-Arms

May 20, 2021
Site ID: 131297-VZW / ATC FIVE POINTS
Page | 4

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Tectonic is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Tectonic.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	23.1 %	Pass
Mount Pipe	67.5 %	Pass
Standoff	17.5 %	Pass
Standoff Pipe	47.3 %	Pass
Tower Beam	22.9 %	Pass
Kicker	8.3 %	Pass
Tie Back	12.4 %	Pass
Tower Connection	11.2 %	Pass

Structure Rating – (Controlling Utilization of all Components)	67.5%
--	-------

Recommendation:

The existing mounts are SUFFICIENT for the final loading configuration and do not require modifications.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

- 1. Mount Photos
- 2. Mount Mapping Report (for reference only)
- 3. Analysis Calculations
- 4. Contractor Required Post Installation Inspection (PMI) Report Deliverables
- 5. Antenna Placement Diagrams

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-601	0

SG050 | 5.4L | 50 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency



Standby Power Rating
50 kW, 63 kVA, 60 Hz

Prime Power Rating*
45 kW, 56 kVA, 60 Hz



*EPA Certified Prime ratings are not available in the US or its Territories



Image used for illustration purposes only

Codes and Standards

Generac products are designed to the following standards:

- UL2200, UL508, UL489
- CSA 22.2
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41
- IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

Powering Ahead

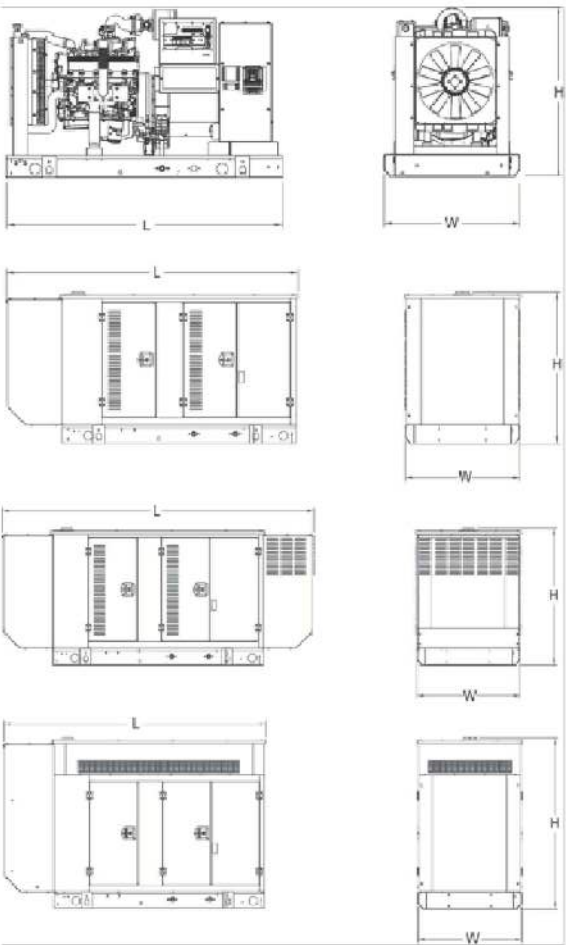
Generac ensures superior quality by designing and manufacturing most of its generator components, such as alternators, enclosures, control systems and communications software. Generac also makes its own spark-ignited engines, and you'll find them on every Generac gaseous-fueled generator. We engineer and manufacture them from the block up — all at our facilities throughout Wisconsin. Applying natural gas and LP-fueled engines to generators requires advanced engineering expertise to ensure reliability, durability and necessary performance. By designing specifically for these dry, hotter-burning fuels, the engines last longer and require less maintenance. Building our own engines also means we control every step of the supply chain and delivery process, so you benefit from single-source responsibility.

Plus, Generac Industrial Power's distribution network provides all parts and service so you don't have to deal with third-party suppliers. It all leads to a positive owner experience and higher confidence level. Generac spark-ignited engines give you more options in commercial and industrial generator applications as well as extended run time from utility-supplied natural gas.

SG050 | 5.4L | 50 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency



DIMENSIONS AND WEIGHTS*



OPEN SET (Includes Exhaust Flex)	
L x W x H - in (mm)	76.0 (1,930.0) x 37.4 (950.0) x 46.3 (1,176.0)
Weight - lbs (kg)	2,255 (1,023)

STANDARD ENCLOSURE	
L x W x H - in (mm)	94.8 (2,408.9) x 38.0 (965.1) x 49.5 (1,258.1)
Weight - lbs (kg)	Steel: 2,697 (1,223) Aluminum: 1,754 (795)

LEVEL 1 ACOUSTIC ENCLOSURE	
L x W x H - in (mm)	112.5 (2,857.1) x 38.0 (965.1) x 49.5 (1,258.1)
Weight - lbs (kg)	Steel: 2,776 (1,259) Aluminum: 2,508 (1,138)

LEVEL 2 ACOUSTIC ENCLOSURE	
L x W x H - in (mm)	94.8 (2,407.0) x 38.0 (965.1) x 69.1 (1,755.0)
Weight - lbs (kg)	Steel: 2,928 (1,328) Aluminum: 2,574 (1,168)

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53189
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Part No. 0K4284
Rev. D 11/16/17

SPEC SHEET

1 of 5

SPEC SHEET

6 of 6

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-602	0

NOTICE

DISCONNECT FOR
UTILITY POWER TO
GENERATOR IS LOCATED
INSIDE THIS ENCLOSURE

CAUTION: TWO
SOURCES OF SUPPLY.
STANDBY
GENERATOR
LOCATED OUTDOOR.

WARNING

SHOCK HAZARD EXISTS IF
GROUNDING ELECTRODE CONDUCTOR
OR BONDING JUMPER CONNECTION IN
THIS EQUIPMENT IS REMOVED WHILE
ALTERNATE SOURCE(S) IS ENERGIZED

1 REQUIRED SIGNS
SCALE: N.T.S.

SUPPLEMENTAL

SHEET NUMBER:
R-603

REVISION:
0



**THIS UNIT MAY START
AUTOMATICALLY. FOLLOW
OPERATING PROCEDURES TO
DISABLE AUTO-START FUNCTION ON
ALL AVAILABLE A.T.S. BEFORE
SERVICING**

**ACCESS
BY AUTHORIZED
PERSONNEL ONLY**

1 REQUIRED SIGNS
SCALE: N.T.S.

SUPPLEMENTAL

SHEET NUMBER:

R-604

REVISION:

0