

COMPLIANCE CODE



AMERICAN TOWER®

ATC SITE NAME: I-75 REST AREA

ATC SITE NUMBER: 302769

VERIZON WIRELESS SITE NAME: I 75 REST AREA

COLUMBIA - MKT 143 - MCR

PROJECT SUMMARY

VERIZON WIRELESS SITE NUMBER: 5000957578

VERIZON WIRELESS FUZE PID: 17252861 SITE ADDRESS: 2212 SE OCTOBER RD LAKE CITY, FL 32024-5533



LOCATION MAP

SHEET INDEX

VERIZON WIRELESS COLLOCATION PLAN

PROJECT DESCRIPTION

		_							
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE	SITE AI	DDRESS:	VERIZON WIRELESS IS PROPOSING THE FOLLOWING WORK TO BE COMPLETED ON AN EXISTING 190' SELF-SUPPORT TOWER:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
FOLLOWING CODES AS ADOPTED BY THE LOCAL	2212 SE O	CTOBER RD	COMPLETED ON AN EXISTING 190 SELF-SOFF ORT TOWER.	G-001	TITLE SHEET	0	10/02/24	ВЈО	SE
GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO	LAKE CITY, I	FL 32024-5533	TOWER WORK: INSTALL (3) SECTOR FRAME MOUNT(S), (9) ANTENNA(S), (6) RRU(s),	G-002	GENERAL NOTES	0	10/02/24	ВЈО	TEF
THESE CODES.	COUNTY:	COLUMBIA	(1) OVP(s), AND (2) 6x12 HYBRIFLEX (1-1/4" HYBRIFLEX) CABLE(S).	3 002			10/02/24		
2023 FLORIDA BUILDING CODE, 8TH EDITION ANSI/TIA-222-H	REGISTERED	COORDINATES:			SITE SURVEY				
8TH EDITION FLORIDA FIRE PREVENTION CODE	LATITUDE: 29° (58' 37.75N NAD 83	GROUND WORK: INSTALL (2) CONCRETE PAD(S), (1) ICE BRIDGE(S), (1) 30KW DIESEL	C-001	OVERALL SITE PLAN	0	10/02/24	BJO	
2020 NATIONAL ELECTRICAL CODE (NFPA 70) CITY/COUNTY ORDINANCES	LONGITUDE	: 82° 48' 62" W	GENERATOR(S), (1) 50KW LP GENERATOR(S), (1) 50KW LP	C-101	DETAILED SITE PLAN	0	10/02/24	BJO	
DESIGN CRITERIA FOR TOWER STRUCTUAL ANALYSIS:	GEOGRAPHIC	COORDINATES:	GENERATOR(S), (1) 500 GAL. BURIED TANK(S), (1) OVP(s), (1) GPS ANTENNA(S), (1) UTILITY METER(S), (1) DISCONNECT(S), (1) ATS/AC ILC(S), (1) FIBER JUNCTION BOX(ES), (1) LED WORK LAMP(S), (1) H-FRAME(S), AND UNDERGROUND POWER AND TELCO JOINT TRENCH.	C-201	TOWER ELEVATION	0	10/02/24	ВЈО	
ULTIMATE WIND SPEED: 120 MPH (3-SECOND GUST)	LATITUD	E: 29.97716		C-401	ANTENNA INFORMATION & SCHEDULE	0	10/02/24	ВЈО	
SERVICE WIND SPEED: 60 MPH RISK CATEGORY: II	LONGITUE	E: -82.58017		C-501	CONSTRUCTION DETAILS	0	10/02/24	ВЈО	
EXPOSURE CATEGORY: C TOPOGRAPHIC CATEGORY: 1	GROUND ELEV	'ATION: 89' AMSL		C-502	CONSTRUCTION DETAILS	0	10/02/24	ВЈО	
INFORMATION PROVIDED BY PASSING STRUCTURAL	ZONING IN	FORMATION:		C-503	CONSTRUCTION DETAILS	0	10/02/24	ВЈО	1⊢
ANALYSIS BY TEP, DATED SEPTEMBER 26, 2024.		OLUMBIA COUNTY		C-504	CONSTRUCTION DETAILS	0	10/02/24	ВЈО	
	PARCEL ID: 11-	6S-17-09644-003		C-505	CONSTRUCTION DETAILS	0 10/02/24	10/02/24	ВЈО	1
UTILITY COMPANIES	PROJEC	CT TEAM		C-506	CONSTRUCTION DETAILS	0	10/02/24	BJO	1
POWER COMPANY: UNKNOWN PHONE: UNKNOWN	TOWER OWNER:	APPLICANT:	PROJECT NOTES	C-507 - C-510	MAINTENANCE OF TRAFFIC	0	10/02/24	ВЈО	DA
	AMERICAN TOWER VERIZON WIRELESS E-101 GROU	GROUNDING PLAN & NOTES	0	10/02/24	ВЈО	AT			
TELEPHONE COMPANY: VERIZON PHONE: (800) 919-0418	10 PRESIDENTIAL WAY WOBURN. MA 01801		THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE	E-102	ONE-LINE & PANEL SCHEDULE	0	10/02/24	BJO	CU
	ENGINEER:	PROPERTY OWNER:	A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND	E-501	GROUNDING DETAILS	0	10/02/24	BJO	CU
	TEP OPCO, LLC	TIITF/DOT-REST AREA	DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH	E-502	GROUNDING DETAILS	0	10/02/24	ВЈО	
Always call 811 two full business days before you dig	326 TRYON RD RALEIGH, NC 27603-3530	C/O DOUGLASS BLVD TALLAHASSEE, FL 32399	DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS	R-601 - R-607	SUPPLEMENTAL				
Sunstiffe Elleon	PROJECT LOCA	TION DIRECTIONS	AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT						
	I-75 TO REST	INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS							

NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).



326 TRYON ROAD RALEIGH, NC 27603-3530

www.tepgroup.net FL COA#: 31011

302769

ATC SITE NAME:

I-75 REST AREA

VERIZON WIRELESS SITE NAME:

I-75 REST AREA COLUMBIA -

MKT 143- MCR SITE ADDRESS:

2212 SE OCTOBER RD LAKE CITY, FL 32024-5533

DIGITAL/ELECTRONIC SEAL: THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA H. CARDEN, P.E. ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.





	DATE DRAWN:	10/02/24
	ATC JOB NO:	14873535
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
	CUSTOMER ID:	5000957578

TITLE SHEET

SHEET NUMBER:

REVISION: G-001

0

GENERAL CONSTRUCTION NOTES:

- 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.
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANS//EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- 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
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS. FTC.
- 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.
- 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.
- 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.
- 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 OONTRACTOR. 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 DI ANS
- 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
- 28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL RECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOYDE'S LODING BADDEIDS 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 NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT 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 OWNLED'S ANTISEACTION
- 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 MANUFACTURER'S 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 FOILING MILEMENT AFTER DICKING IT LIP.
- 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/ENGINEFE

STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BILLI DINGS."
- 2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
- A. ASTM A-572, GRADE 50 ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
- B. ASTM A-36 ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
- C. ASTM A-500, GRADE B HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
- D. ASTM A-325, TYPE SC OR N ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
- . ASTM F-1554 07 ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
- 3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- 4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
- 5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- CONNECTIONS:
- A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1.

REPAIR ALL WELDS AS NECESSARY.

- C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
- E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
- G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING %* BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
- I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND VERIZON PROJECT MANAGER IN WRITING

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- . WORK INCLUDED:
- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL
- B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
- D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
- 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 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR FOLIAL.
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

CONCRETE AND REINFORCING STEEL NOTES:

- 1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
- 2. MIX DESIGN SHALL BE APPROVED BY VERIZON REP PRIOR TO PLACING CONCRETE.
- 3. CONCRETE SHALL BE NORMAL WEIGHT, $6\,\%$ AIR ENTRAINED (+/- 1.5%) WITH A SLUMP RANGE OF 3-6" AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI UNLESS OTHERWISE NOTED.
- 4. THE FOLLOWING MATERIALS SHALL BE USED:

ADMIXTURES:

PORTLAND CEMENT: ASTM C150, TYPE 2
REINFORCEMENT: ASTM A185, PLAIN STEEL WELDED WIRE FABRIC
REINFORCEMENT BARS: ASTM A615, GRADE 60, DEFORMED

NORMAL WEIGHT AGGREGATE: ASTM C33
WATER: ASTM C 94/C 94M
WELDED WIRE FABRIC: ASTM A185

-WATER-REDUCING AGENT: ASTM C 494/C 494M, TYPE A
-AIR-ENTERING AGENT: ASTM C 260/C 260M

-SUPERPLASTICIZER: ASTM C494, TYPE F OR TYPE G
-RETARDING: ASTM C 494/C 494M, TYPE B

5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3'

- 6. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.
 - 7. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR APPROVAL FROM AN ATC ENGINEER WHEN DRILLING HOLES IN CONCRETE.
- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN "METHOD 1" OF ACI 301.
- 9. DO NOT WELD OR TACK WELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- 1. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- 12. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- FOR COLD-WEATHER (ACI 306) AND HOT-WEATHER (ACI 301M) CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS. MINIMUM.
- 14. ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH."
- 15. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- 16. DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.
- 18. LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS.
- SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 6°.
- BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE: TIE WIRE SHALL BE OF SUFFICIENT STRENGTH FOR INTENDED PURPOSE, BUT NOT LESS THAN NO. 18 GAUGE.
- 22. SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6"
 GRAVEL RENEATH SLAR

ELECTRICAL NOTES:

- ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
- 2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES) ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF ATC. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUNDING CABLES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUNDING LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COLUMNS OF CONSTRUCTION

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.



TEP OPCO LLC 326 TRYON ROAD www.tepgroup.net RALEIGH, NC 27603-3530 FL COA#: 31011

EP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN FFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL GINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCC. C, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH AROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAIR HONINEERING, C, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, GENERAL DISTRICTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE MITTED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH TATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

ATC SITE NUMBER: 302769

ATC SITE NAME: I-75 REST AREA

VERIZON WIRELESS SITE NAME:
I-75 REST AREA COLUMBIA -

MKT 143- MCR SITE ADDRESS:

2212 SE OCTOBER RD LAKE CITY, FL 32024-5533

100% CONSTRUCTION

 EV.
 DESCRIPTION
 BY
 DATE

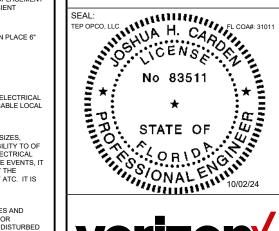
 A\ PRELIMINARY
 PVW
 09/11/24

 B\ 90% CONSTRUCTION
 RMJ
 09/24/24

BJO 10/02/24

DIGITAL/ELECTRONIC SEAL:
THIS ITEM HAS BEEN DIGITALLY SIGNED AND
SEALED BY JOSHUA H. CARDEN, P.E. ON THE
DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.





 DATE DRAWN:
 10/02/24

 ATC JOB NO:
 14873535

 CUSTOMER NAME:
 I-75 REST AREA COLUMBIA MKT 143 - MCR

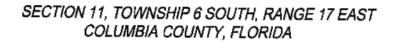
 CUSTOMER ID:
 5000957578

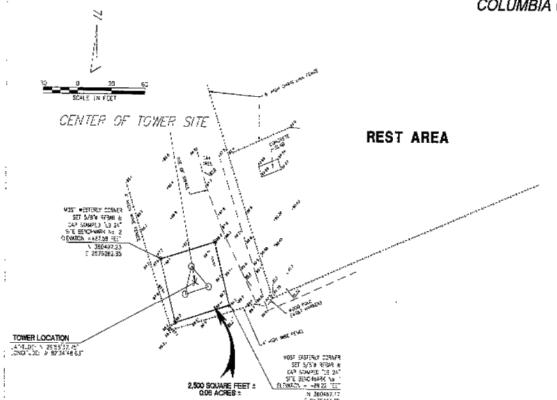
GENERAL NOTES

SHEET NUMBER:

G-002

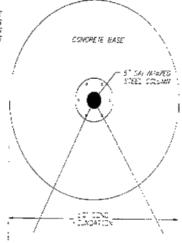
0





MTERSTATE 75

IS 1/4 " BASE PLATE MITH & ANCHOP BOLTS IN \$ 1/2 " RADIUS AT 85' ROJA ROPES



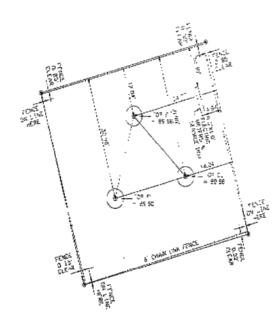
<u>FOOTING DETAIL</u> NOT TO SCALE

SEE LOCATION DETAIL (RIGHT)

NOTE: SEE SHEET 1 OF 2 FOR BOUNDARY AND CONTROL INFORMATION

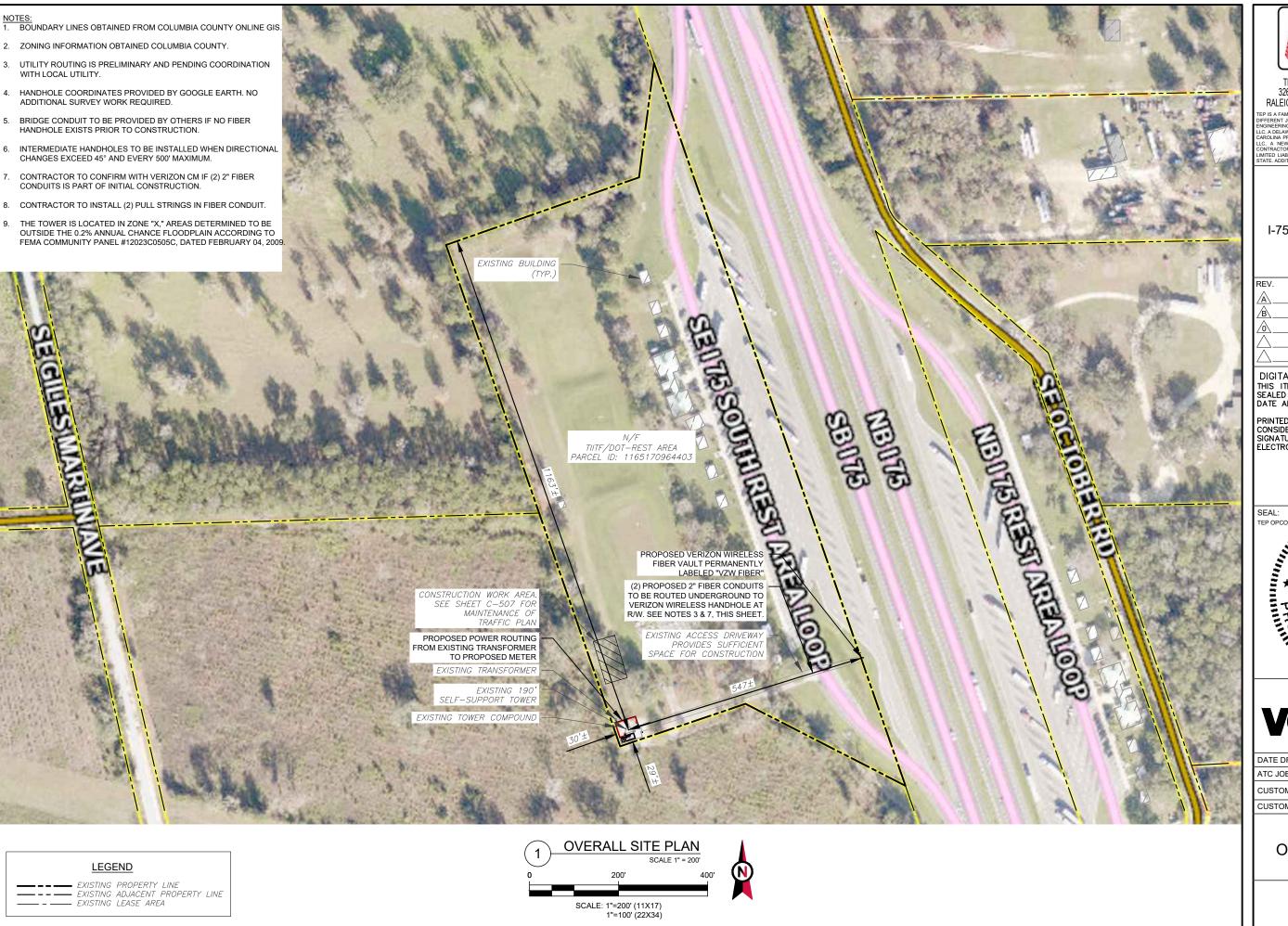
> · LEGEND: EL = BLEVARON





<u>LGCATION DETAIL</u> NOTE: TIES SHOWN ARE TO CENTER OF COLUMN

PP C	PROJECT	745K	OFIGINAL E	JOS NO. 140495.81
SUITE 300 LODESTAR TOWERS, INC.	INTERSTATE 75 - REST AREA SOUTH SITE	AS-BUILT, BOUNDARY	1	DRANN DLC DESIGNED
74APA, F.CRIDA 33607 Ph. (813) 677-7275	TOWER #2003	SURVEY	J	CHECKED WHF
temporary and the second secon	COLUMBIA COUNTY, FLORIDA		5	SHEE! 2/2





TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530

www.tepgroup.net FL COA#: 31011

ATC SITE NUMBER: 302769

ATC SITE NAME:

I-75 REST AREA

VERIZON WIRELESS SITE NAME:

I-75 REST AREA COLUMBIA -

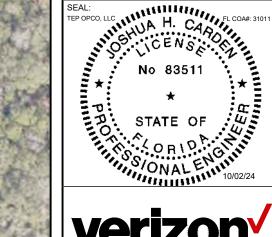
MKT 143- MCR SITE ADDRESS:

2212 SE OCTOBER RD

RMJ 09/24/24

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	DATE DRAWN:	10/02/24
	ATC JOB NO:	14873535
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
	CUSTOMER ID:	5000957578

OVERALL SITE PLAN

SHEET NUMBER:

REVISION:

C-001

0

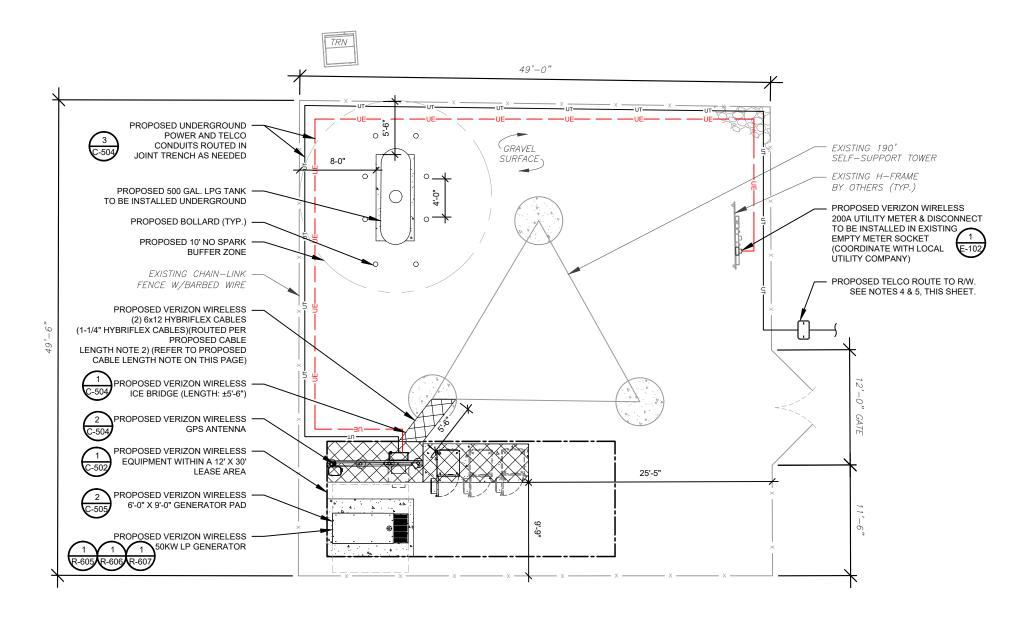
SITE PLAN NOTES:

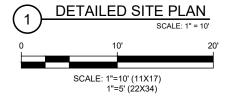
- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE 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.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE VERIZON REPRESENTATIVE AND LOCAL UTILITY COMPANY THE INSTALLATION OF CONDUITS CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
- CONTRACTOR TO CONFIRM WITH VERIZON CM IF (2) 2" FIBER CONDUITS IS PART OF INITIAL CONSTRUCTION
- CONTRACTOR TO INSTALL (2) PULL STRINGS IN FIBER CONDUIT.

LEGEND 8 GROUNDING TEST WELL ATS **AUTOMATIC TRANSFER SWITCH** BOLLARD CSC CELL SITE CABINET D DISCONNECT **ELECTRICAL** FIBER GEN GENERATOR GENERATOR RECEPTACLE G HH V HAND HOLF VAULT ΙB ICE BRIDGE KENTROX BOX LC LIGHTING CONTROL M METER ΡВ **PULL BOX** PP POWER POLE TELCO TRN TRANSFORMER CHAINLINK FENCE

PROPOSED CABLE NOTES:

- ESTIMATED LENGTH OF PROPOSED CABLE IS 240'. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS, WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG)









TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530

www.tepgroup.net FL COA#: 31011

EP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICE:
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NGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OF IGINEERING AND LAND SURVETING SERVICES ARE PROVIDED BY TEP O'R C, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NOR ROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERIN C, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, GENER INTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWAI MITED LIBBILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EAC ATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

> ATC SITE NUMBER: 302769

ATC SITE NAME:

I-75 REST AREA VERIZON WIRELESS SITE NAME:

I-75 REST AREA COLUMBIA -

MKT 143- MCR

SITE ADDRESS: 2212 SE OCTOBER RD

LAKE CITY, FL 32024-5533 DESCRIPTION

DATE BY PRELIMINARY PVW 09/11/24 RMJ 09/24/24 90% CONSTRUCTION 100% CONSTRUCTION BJO 10/02/24

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DATE DRAWN:	10/02/24
ATC JOB NO:	14873535
CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
CUSTOMER ID:	5000957578

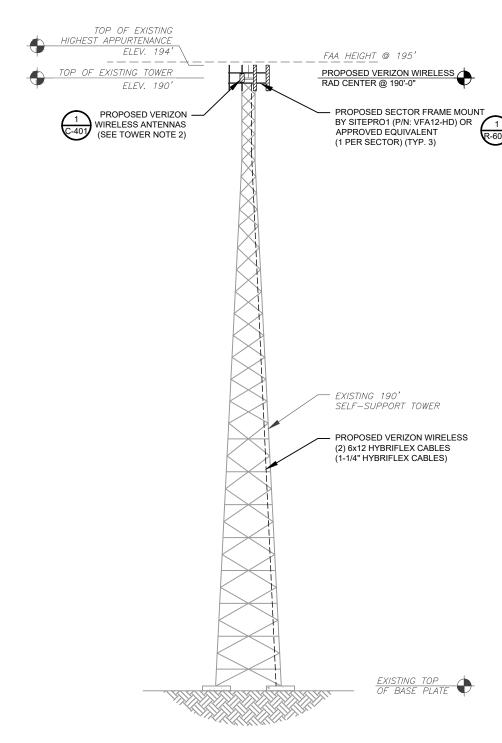
DETAILED SITE PLAN

SHEET NUMBER:

C-101

ATC HAS NOT ANALYZED THE PROPOSED ANTENNA MOUNT(S) TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR PROPOSED CARRIER LOADING.

ATC IS CURRENTLY FILED FOR FAA HEIGHT HIGHER THAN THE TOP OF TOWER.



PROPOSED TOWER ELEVATION

- TOWER NOTES:

 1. 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.
- 2. 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.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
 - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530

www.tepgroup.net FL COA#: 31011

NALCIOTI, INC 27003-3330 FL COAH. 31011

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN
DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL
ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCE
LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP BIGNIEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERING
LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, GENERAL
CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE
LIMITED LIABILITY COMPANY, WE ACQUIRE THE REQUISTE LICENSES IN EACH
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ATC SITE NUMBER: 302769

ATC SITE NAME:

I-75 REST AREA

VERIZON WIRELESS SITE NAME: I-75 REST AREA COLUMBIA -

MKT 143- MCR

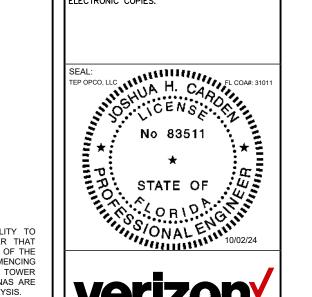
SITE ADDRESS: 2212 SE OCTOBER RD

LAKE CITY, FL 32024-5533 BY DATE DESCRIPTION

PRELIMINARY PVW 09/11/24 90% CONSTRUCTION RMJ 09/24/24 100% CONSTRUCTION

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	DATE DRAWN:	10/02/24
	ATC JOB NO:	14873535
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA MKT 143 - MCR
	CUSTOMER ID:	5000957578

TOWER ELEVATION

SHEET NUMBER:

C-201

REVISION:

EXISTING TOWER ELEVATION

TOP OF EXISTING

ELEV. 194

ELEV. 190

FAA HEIGHT @ 195' _ _

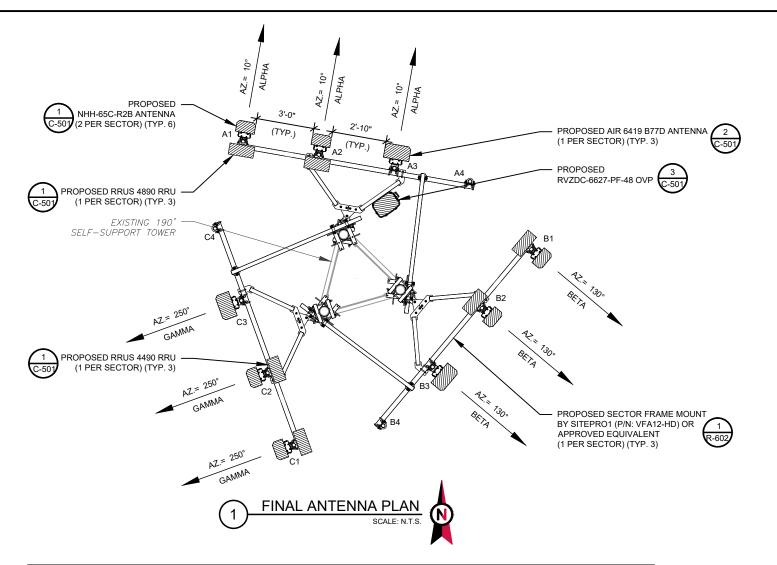
EXISTING 190'

SELF-SUPPORT TOWER

HIGHEST APPURTENANCE

TOP OF EXISTING TOWER

ATC HAS NOT ANALYZED THE PROPOSED ANTENNA MOUNT(S) TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR PROPOSED CARRIER LOADING.



	FINAL ANTENNA SCHEDULE									
LO	LOCATION ANTENNA SUMMARY				NON ANTENNA SUMMARY					
SECTOR	RAD	AZ	POS	ANTENNA BAND		MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
			A1	NHH-65C-R2B	LTE 700/LTE 1900/ LTE AWS/ LTE AWS3/5G 850/LTE 850	*	ADD	(1) RRUS 4890	ADD	
ALPHA	190'-0"	10°	A2	NHH-65C-R2B	LTE 700/LTE 1900/ LTE AWS/ LTE AWS3/5G 850/LTE 850	*	ADD	(1) RRUS 4490	ADD -	
			А3	AIR 6419 B77D	5G L-SUB6	*	-	-		
			A4	-	-	*	-	-	-	
			В1	NHH-65C-R2B	LTE 700/LTE 1900/ LTE AWS/ LTE AWS3/5G 850/LTE 850	*	ADD	(1) RRUS 4890	ADD	
ВЕТА	190'-0"	130°	B2	NHH-65C-R2B	LTE 700/LTE 1900/ LTE AWS/ LTE AWS3/5G 850/LTE 850	*	ADD	(1) RRUS 4490	ADD	
			В3	AIR 6419 B77D	5G L-SUB6	*	-	-	-	
			B4	=	-	*	-	-	-	
				C1	NHH-65C-R2B	LTE 700/LTE 1900/ LTE AWS/ LTE AWS3/5G 850/LTE 850	*	ADD	(1) RRUS 4890	ADD
GAMMA	190'-0"	250°	C2	NHH-65C-R2B	LTE 700/LTE 1900/ LTE AWS/ LTE AWS3/5G 850/LTE 850	*	ADD	(1) RRUS 4490	ADD	
			C3	AIR 6419 B77D	5G L-SUB6	*	-	-	-	
			C4	-	-	*	-	-	-	

. CONFIRM WITH VERIZON WIRELESS REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.

CABLE LENGTHS FOR JUMPERS FIBER DISTRIBUTION/OVP TO RRU: 15' RRU TO ANTENNA: 10'

PROPOSED FIBER DISTRIBUTION	/OVP BOX	PROPOSEI	D CABLING SUMMA	RY
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(1) RVZDC-6627-PF-48 OVP	ADD	-	(2) 6x12 [(2) 1-1/4"]	ADD



TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530

www.tepgroup.net FL COA#: 31011

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NGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OP IGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPC.

C, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH

ROUND PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERING.

C, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL

DITRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWAR

MITTED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EAC

ATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

ATC SITE NUMBER: 302769

ATC SITE NAME: I-75 REST AREA

VERIZON WIRELESS SITE NAME:

I-75 REST AREA COLUMBIA -

MKT 143- MCR SITE ADDRESS:

2212 SE OCTOBER RD LAKE CITY, FL 32024-5533 DESCRIPTION BY DATE PRELIMINARY PVW 09/11/24 90% CONSTRUCTION RMJ 09/24/24 100% CONSTRUCTION

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	DATE DRAWN:	10/02/24
	ATC JOB NO:	14873535
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
	CUSTOMER ID:	5000957578

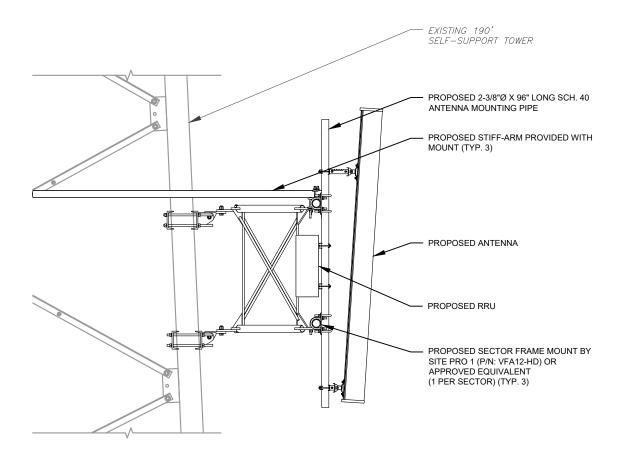
ANTENNA INFORMATION & SCHEDULE

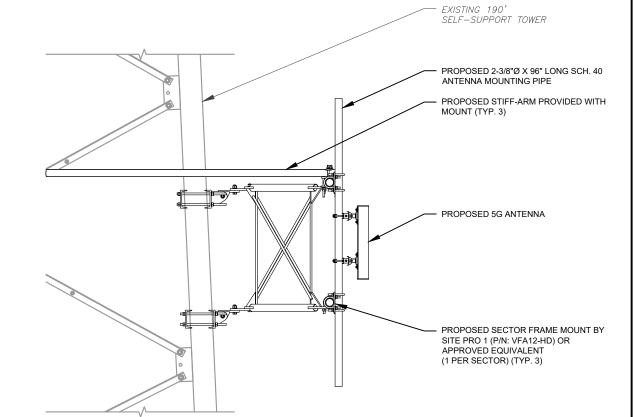
SHEET NUMBER: C-401 REVISION: 0

ANTENNA SCHEDULE

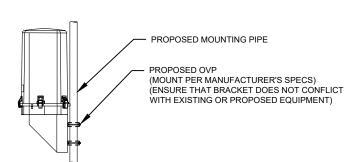
^{2.} CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

⁻ REFER TO RFDS FOR THE VALUES





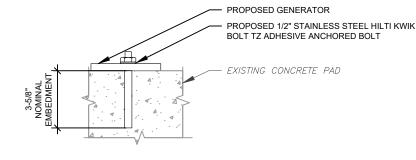
PROPOSED ANTENNA MOUNTING DETAIL SCALE: NOT TO SCALE PROPOSED 5G ANTENNA MOUNTING DETAIL SCALE: NOT TO SCALE



PROPOSED CABINET PROPOSED 3/8"Ø SIMPSON STRONG-BOLT® 2 WEDGE ANCHOR OR FOLIVALENT GC TO INSTALL PER ICC# ESR-3037 PROPOSED CONCRETE PAD

NOTE:

- 1. INSTALL SIMPSON STRONG-TIE® STRONG-BOLT® 2 WEDGE ANCHOR(S) STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.STRONGTIE.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.
- 2. SPECIAL INSPECTIONS ARE TO BE COMPLETED IN ACCORDANCE WITH ICC# ESR-3037.



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

PROPOSED OVP MOUNTING DETAIL

CABINET ATTACHMENT DETAIL SCALE: N.T.S.

PROPOSED GENERATOR ATTACHMENT DETAIL

SCALE: NOT TO SCALE

TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530

www.tepgroup.net FL COA#: 31011

NALEIOTI, INC 27003-3330 FL COMM: 51011

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ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCE.
LC, A DELAWARE LUMITED LIABILITY COMPANY, FOR MAINE LICE, A NORTH CAN FOR PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAINE ENGINEERING
LC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL
CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE
IMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH
STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

ATC SITE NUMBER: 302769

ATC SITE NAME:

I-75 REST AREA

VERIZON WIRELESS SITE NAME:

I-75 REST AREA COLUMBIA -

MKT 143- MCR SITE ADDRESS:

2212 SE OCTOBER RD LAKE CITY, FL 32024-5533

DATE DESCRIPTION BY PRELIMINARY PVW 09/11/24 90% CONSTRUCTION RMJ 09/24/24 100% CONSTRUCTION BJO 10/02/24

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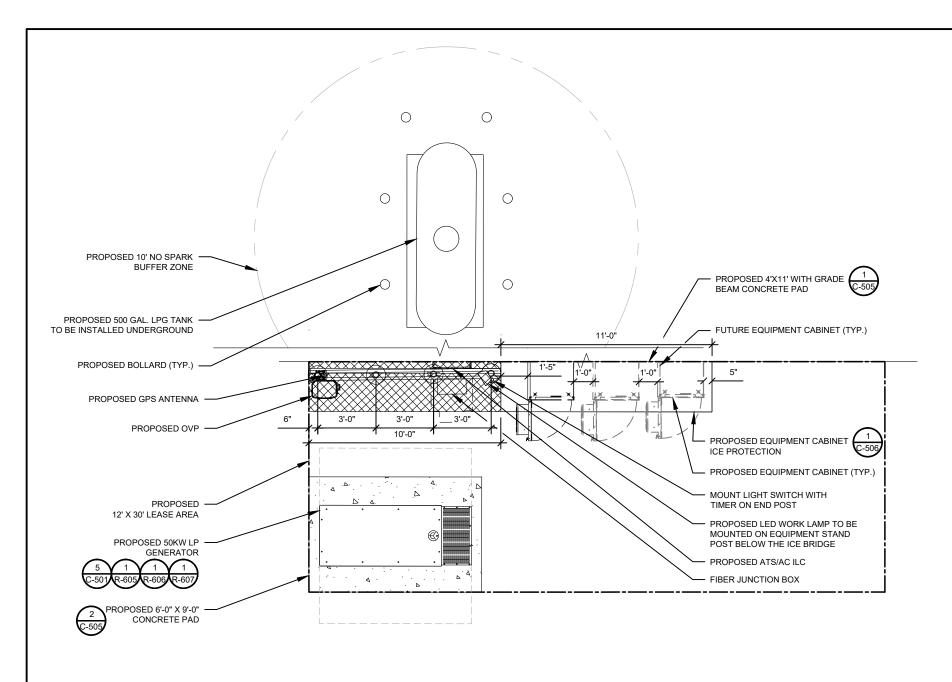


DATE DRAWN:	10/02/24
ATC JOB NO:	14873535
CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
CUSTOMER ID:	5000957578
	ATC JOB NO: CUSTOMER NAME:

CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-501

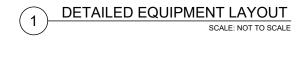


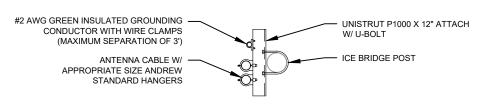
VERIZON WIRELESS PROVIDED EQUIPMENT

- CHARLES INDUSTRIES CUBE-SS4B231PX2 EQUIPMENT WITH BATTERY CHARGER
- RAYCAP OVP-12 (RVZDC-6627-PF-48)

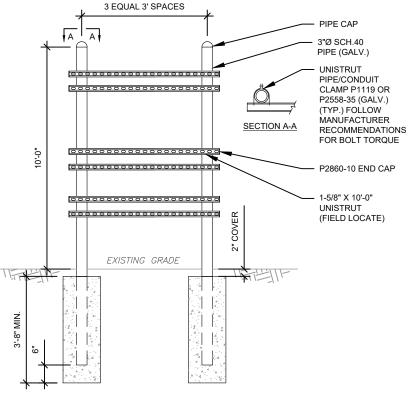
CONTRACTOR PROVIDED EQUIPMENT

- * THIS IS NOT A COMPREHENSIVE LIST. IT SHOULD BE ASSUMED BY THE CONTRACTOR THAT ALL OTHER ITEMS DETAILED IN THIS SET OF DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR.
- 18"X18" FIBER JUNCTION BOX, NEMA 3R CABINET ENCLOSURE WITH WOODEN BACKBOARD, PADLOCK LATCH, AND COMBINATION LOCK (USE FOR DARK FIBER)
- 26.2" WIDE X 78" TALL X 12.3" DEEP ASCO D300L SERIES POWER TRANSFER LOAD CENTER MODEL AA300G-1PH-N-3R INTEGRATED LOAD CENTER "ILC" WITH COMBINATION PAD
- 22" WIDE X 26" TALL X 20" DEEP CHARLES INDUSTRIES CUBE-RL1003C-1 WITH HEAT EXCHANGER (120V) WITH TRIPP-LITE UPS PART #SM1200RMXL2UTAA INSIDE (ONLY REQUIRED WHEN VZT PROVIDES LIT FIBER. UTILITY COORDINATOR MUST VERIFY IF NEEDED)
- COORDINATE ADDITIONAL ENTRY GATE LOCK(S) WITH CONSTRUCTION MANAGER









TYPICAL H-FRAME AND ICE BRIDGE POST DETAIL

SCALE: NOT TO SCALE



TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530

www.tepgroup.net FL COA#: 31011

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> ATC SITE NUMBER: 302769

ATC SITE NAME:

I-75 REST AREA

VERIZON WIRELESS SITE NAME: I-75 REST AREA COLUMBIA -

MKT 143- MCR

SITE ADDRESS: 2212 SE OCTOBER RD

LAKE CITY, FL 32024-5533 DATE DESCRIPTION BY PRELIMINARY PVW 09/11/24 RMJ 09/24/24 90% CONSTRUCTION 100% CONSTRUCTION BJO 10/02/24

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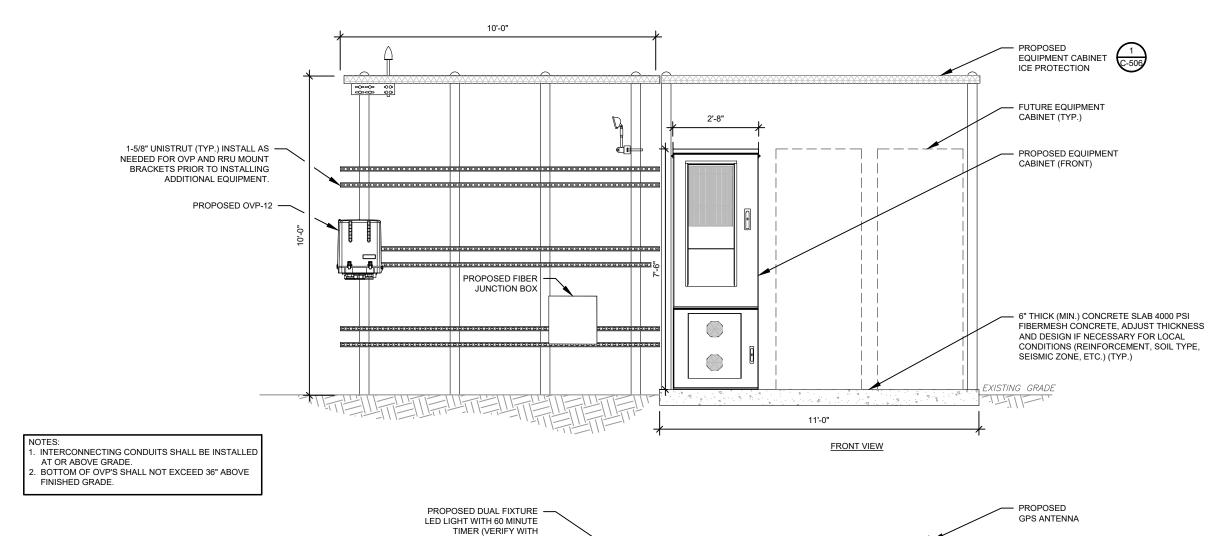


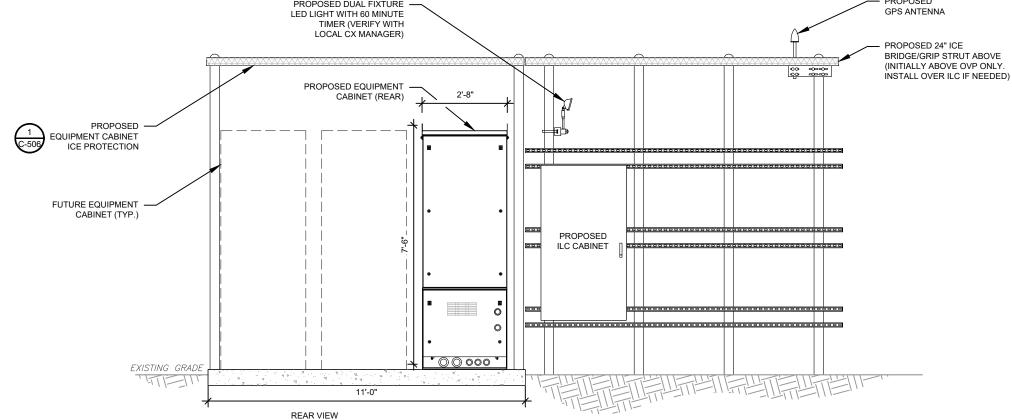
	DATE DRAWN:	10/02/24
	ATC JOB NO:	14873535
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
	CUSTOMER ID:	5000957578

CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-502





DETAILED H-FRAME LAYOUT

SCALE: NOT TO SCALE



TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net FL COA#: 31011

RALEIOH, NO. 2/10U3-3030 FL UU/HH. 3 IU II
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I-75 REST AREA COLUMBIA -MKT 143- MCR

SITE ADDRESS: 2212 SE OCTOBER RD

2212 SE OCTOBER RD LAKE CITY, FL 32024-5533 DESCRIPTION B

 REV.
 DESCRIPTION
 BY
 DATE

 A
 PRELIMINARY
 PVW
 09/11/24

 90% CONSTRUCTION
 RMJ
 09/24/24

 100% CONSTRUCTION
 BJO
 10/02/24

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	DATE DRAWN:	10/02/24		
	ATC JOB NO:	14873535		
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR		
ı	CUSTOMER ID:	5000957578		

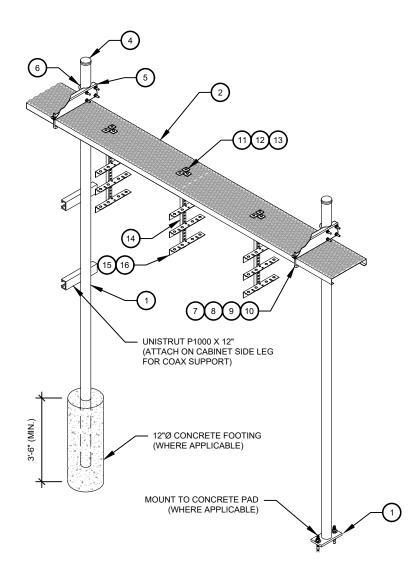
CONSTRUCTION DETAILS

SHEET NUMBER:

C-503

CONSTRUCTION NOTE:

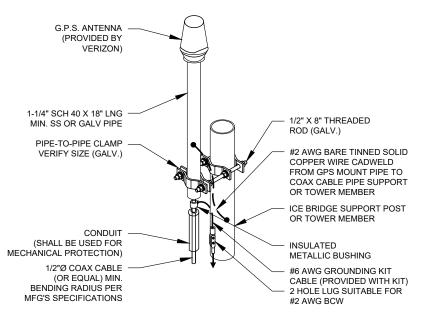
1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE



WB-K210-B WAVEGUIDE BRIDGE KIT - BILL OF MATERIALS (INCLUDED WITH KIT UNLESS NOTED OTHERWISE)					
ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
1	MF126.01 MF-130	10'-4" COLUMN & BASE SHOE* 13'-4" PIPE COLUMN	9	GWL-04	1/2" GALV LOCK WASHER
2	WB-CY210	SAFETY GRATING 24" X 10'	10	GN-04	1/2" GALV HEX NUT
3	WBK110BHK	HARDWARE KIT (ITEMS 4-16)	11	GB-03205	3/8" X 2" GALV BOLT KIT
4	PC-034	PIPE CAP 3-1/2"	12	MT-387	SQUARE WASHER, 1-1/2" X 1-1/2" W/ 7/16" HOLE
5	WBLB243.08	24" WAVEGUIDE BRIDGE SUPPORT BRACKET	13	GWF-03	3/8" GALV FLAT WASHER
6	GUB-4356	1/2" X 3-5/8" X 6" GALV U-BOLT	14	WBT243.01	VERTICAL TRAPEZE SECTION
7	WB-JB-6	1/2" J-BOLT	15	GB-03105	3/8" X 1" GALV BOLT KIT
8	GWF-04	1/2" GALV FLAT WASHER	16	WBT243.02	HORIZONTAL TRAPEZE SECTION

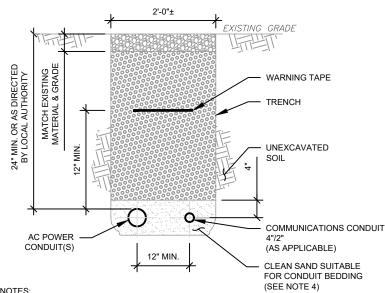
CONTRACTOR SHALL USE PARTS MANUFACTURED BY COMMSCOPE OR APPROVED EQUIVALENT. *BASE SHOE NOT INCLUDED IN WB-K210-B KIT, ORDER COLUMN SEPARATELY OR KIT WB-K210-S.





- GPS SHALL BE PLACED WITH CLEAR SIGHT LINE TO THE SOUTHERN SKY.
- CONTRACTOR TO SUPPLY COAX FOR GPS UNIT.





- 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
- USE COMMUNICATIONS ONLY TRENCH FOR COMMUNICATIONS CONDUIT UNLESS TRAVELING UNDER PATH OF VEHICLE TRAVEL, THEN CONDUIT MUST BE 24" MIN. BELOW
- CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS

POWER/TELCO CONDUIT TRENCH DETAILS



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NALCIOTI, INC 27003-3330 FL COAH. 31011

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ATC SITE NUMBER:

302769 ATC SITE NAME:

I-75 REST AREA

VERIZON WIRELESS SITE NAME:

I-75 REST AREA COLUMBIA -MKT 143- MCR

SITE ADDRESS:

2212 SE OCTOBER RD LAKE CITY, FL 32024-5533

DESCRIPTION PRELIMINARY PVW 09/11/24 90% CONSTRUCTION RMJ 09/24/24 100% CONSTRUCTION BJO 10/02/24

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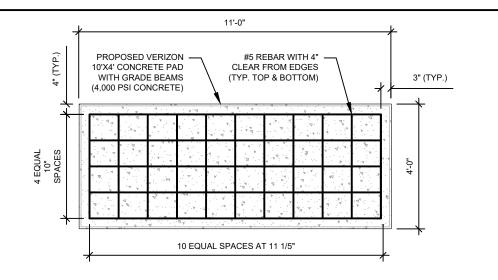


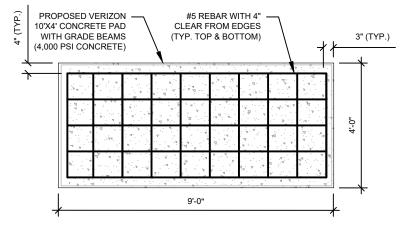
	DATE DRAWN:	10/02/24
	ATC JOB NO:	14873535
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
	CUSTOMER ID:	5000957578

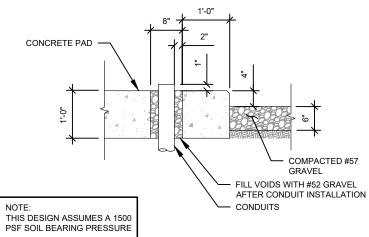
CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-504







GENERATOR CONDUIT STUB UP DETAIL

CHAMFER

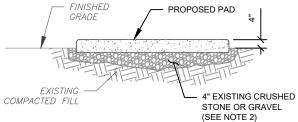
PAD NOTES:

- PADS SHALL BE PRE-CAST MATCHING THIS DESIGN WHERE ALLOWED BY LOCAL JURISDICTION.
- REFER TO CONCRETE & REINFORCED STEEL NOTES ON SHEET G-002 & ATC SPEC 033000 FOR CAST-IN-PLACE PADS.

CONCRETE EQUIPMENT PAD DESIGN SCALE: N.T.S.

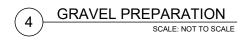


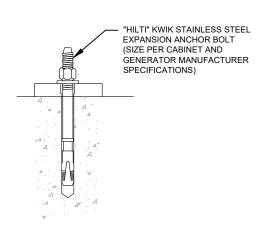
CHAMFER



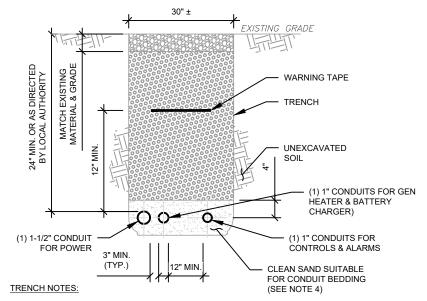
PAD NOTES:

- SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL. DELETRIOUS MATERIAL AND ORGANICS SHALL BE REMOVED.
- 2. MECHANICALLY COMPACT FOOTPRINT OF PAD PLUS 2' PERIMETER.
- USE GALVANIZED HILTI EXPANSION ANCHORS OR, APPROVED EQUAL, FOR EQUIPMENT ANCHORAGE.
- FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.





EXPANSION ANCHOR DETAIL



- 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.
- USE COMMUNICATIONS ONLY TRENCH FOR COMMUNICATIONS CONDUIT UNLESS TRAVELING UNDER PATH OF VEHICLE TRAVEL, THEN CONDUIT MUST BE 24" MIN.
- CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS

GENERATOR CONDUIT TRENCH DETAILS 6



TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530 www.tepgroup.net FL COA#: 31011

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2. DELAWARE LIMITED LABILITY COMPANY, TEP ENISINEERING, LLC, A NORT ROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERINIC,
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ATC SITE NUMBER:

302769 ATC SITE NAME:

I-75 REST AREA

VERIZON WIRELESS SITE NAME

I-75 REST AREA COLUMBIA -

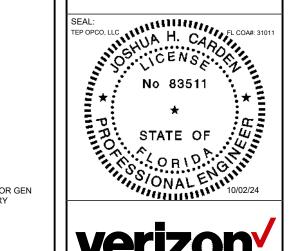
MKT 143- MCR SITE ADDRESS:

2212 SE OCTOBER RD LAKE CITY, FL 32024-5533

DATE DESCRIPTION BY PRELIMINARY PVW 09/11/24 RMJ 09/24/24 90% CONSTRUCTION 100% CONSTRUCTION BJO 10/02/24

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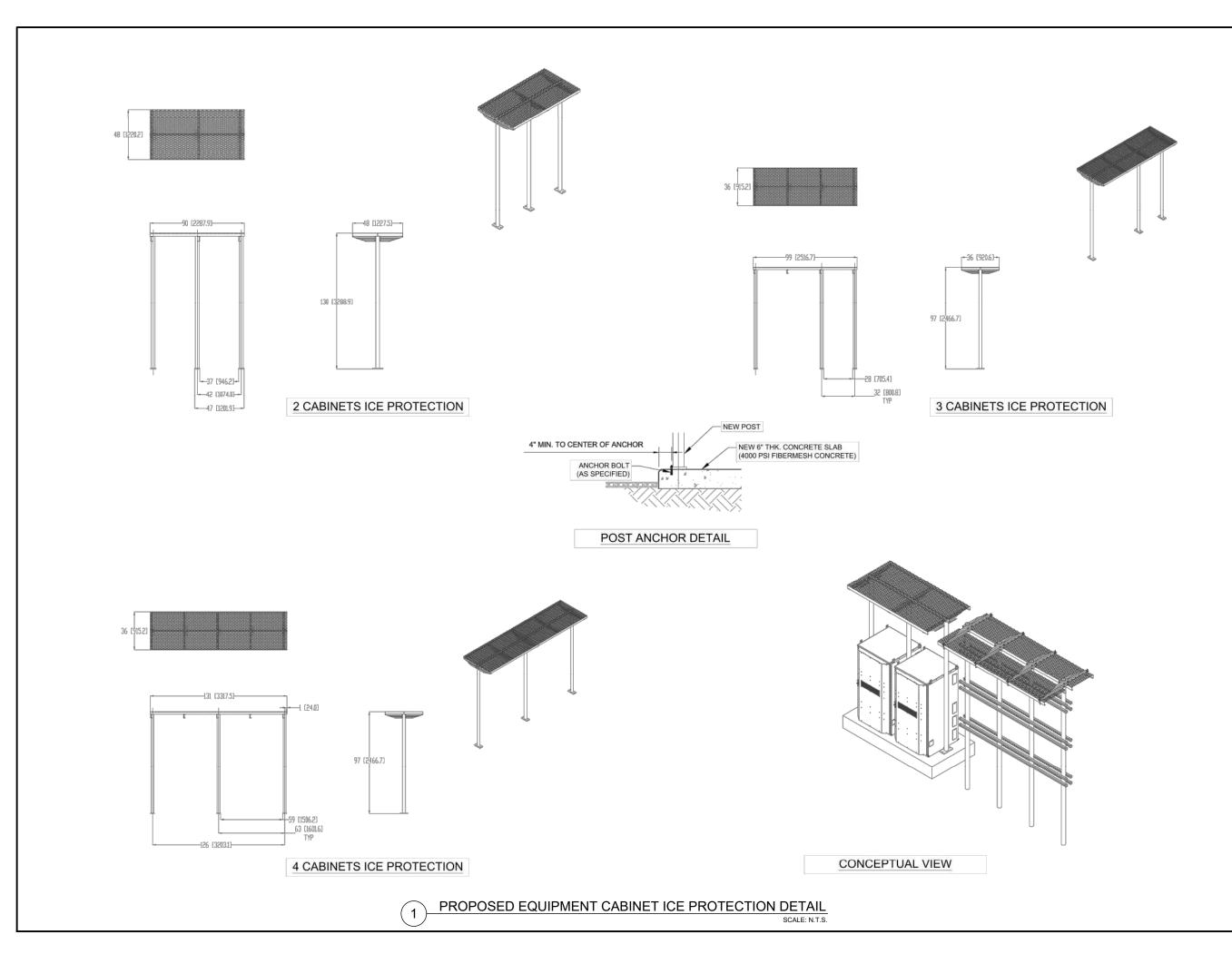
	DATE DRAWN:	10/02/24
	ATC JOB NO:	14873535
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
	CUSTOMER ID:	5000957578

CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-505

0





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ATC SITE NUMBER:

302769 ATC SITE NAME:

I-75 REST AREA VERIZON WIRELESS SITE NAME:

I-75 REST AREA COLUMBIA -

MKT 143- MCR

SITE ADDRESS: 2212 SE OCTOBER RD

LAKE CITY, FL 32024-5533

DESCRIPTION BY DATE

PRELIMINARY PVW 09/11/24 90% CONSTRUCTION RMJ 09/24/24

100% CONSTRUCTION

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SEAL:
TEP OPCO, LLC

TEP OPCO, LLC STATE OF OR 10 A CONTROL OF 10/02/24



		DATE DRAWN:	10/02/24
		ATC JOB NO:	14873535
		CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
		CUSTOMER ID:	5000957578

CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-506



- Median --

= MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR =

NOTES:

≥ DESCRIPTION:

REVISION

11/01/20

 \Longrightarrow

- 1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.
- 2. Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.
- 3. Use Index 102-660 when Work Area encroaches a Sidewalk.

SYMBOLS:

Work Area

Offset Zone:

a. Behind an existing barrier, b. More than 2' behind the curb, c. 15' or more from the traveled way.

Lane Identification and Direction of Traffic

FY 2023-24 **FDOT** STANDARD PLANS TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER

INDEX 102-601 SHEET

1 of 1

MAINTENANCE OF TRAFFIC (TYPICAL)

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

TEP OPCO LLC 326 TRYON ROAD

www.tepgroup.net RALEIGH, NC 27603-3530 FL COA#: 31011

NALCIOFI, NO. 27003-3030 FL. OUAH: 51011

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ATC SITE NUMBER: 302769

ATC SITE NAME:

I-75 REST AREA VERIZON WIRELESS SITE NAME:

I-75 REST AREA COLUMBIA -

MKT 143- MCR

SITE ADDRESS: 2212 SE OCTOBER RD LAKE CITY, FL 32024-5533

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CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
CUSTOMER ID:	5000957578
	ATC JOB NO: CUSTOMER NAME:

MAINTENANCE OF **TRAFFIC**

SHEET NUMBER:

C-507

Verify this Certificate at www.motadmin.com.

GENERAL NOTES:

- 1. This Index applies to two-lane, two-way and multilane roadways with work that requires a moving operation.
- 2. Mount vehicle-mounted signs with the bottom of the sign at a minimum height of 48 inches above the pavement. Vehicle mounted changeable message signs may be used in lieu of truck mounted static signs and arrow boards. Ensure changeable message signs flash alternately to read "Left or Right Lane" or "Two Left or Two Right Lanes", "Closed Ahead", and the arrow symbol. Do not use arrow boards in combination with truck mounted changeable message signs or obscure boards with equipment, supplies, signs, or enclosure. Cover or turn sign legends from view when work is not in progress.
- 3. For multilane roadways with curb and no paved shoulder, omit the shadow vehicle that would have been used on the paved shoulder. In such instances, the warning sign should be mounted on the shadow vehicle farthest from the work vehicle.
- 4. Where work activities within 2' of the edge of travel way are incidental (i.e., Mowing, Litter Removal), the Engineer may omit requirements for signs and the Shadow vehicle on the shoulder.
- Minimize the longitudinal spacing between vehicles to deter road users from driving in between.
- 6. Use inverted plan of the illustrations for work on left side of roadways.
- 7. Ensure that all vehicles in the mobile operation convoy have functional two-way communication.
- 8. If the speed of the mobile operation exceeds the existing posted minimum speed limit on limited access roadways and one half the existing posted speed limit on other roadways, the Engineer may delete requirements for shadow vehicles and attenuators. In such situations, mount arrow board and sign on the work vehicle.
- The distance between the advance warning sign and the work location should not exceed 5 miles.

SYMBOLS:

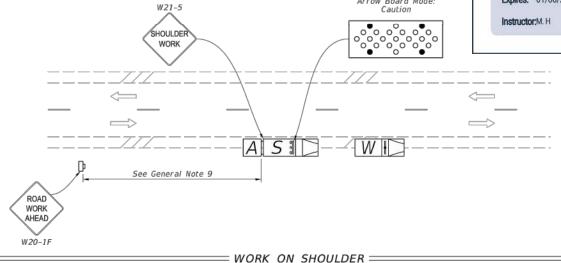
Lane Identification and Direction of Traffic

A Truck/Trailer Mounted Attenuator (TMA)

W Work Vehicle With Warning Lights

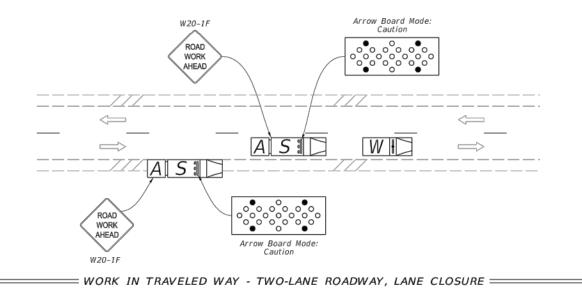
SID Shadow (S) Vehicle With Warning Lights
And Arrow Board

Work Zone Sign



(Two-Lane Roadway Shown, Multilane Roadway Similar)

Arrow Board Mode:



LAST REVISION 11/01/22 LAST 11/01/22 LAST 11/01/22 LAST REVISION 15 LAST REVISION 16 LAST R

<u>(1)</u>—

MAINTENANCE OF TRAFFIC (TYPICAL)

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I-75 REST AREA

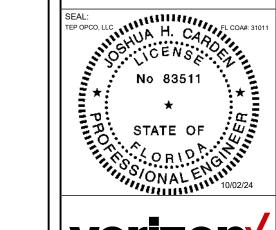
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MKT 143- MCR

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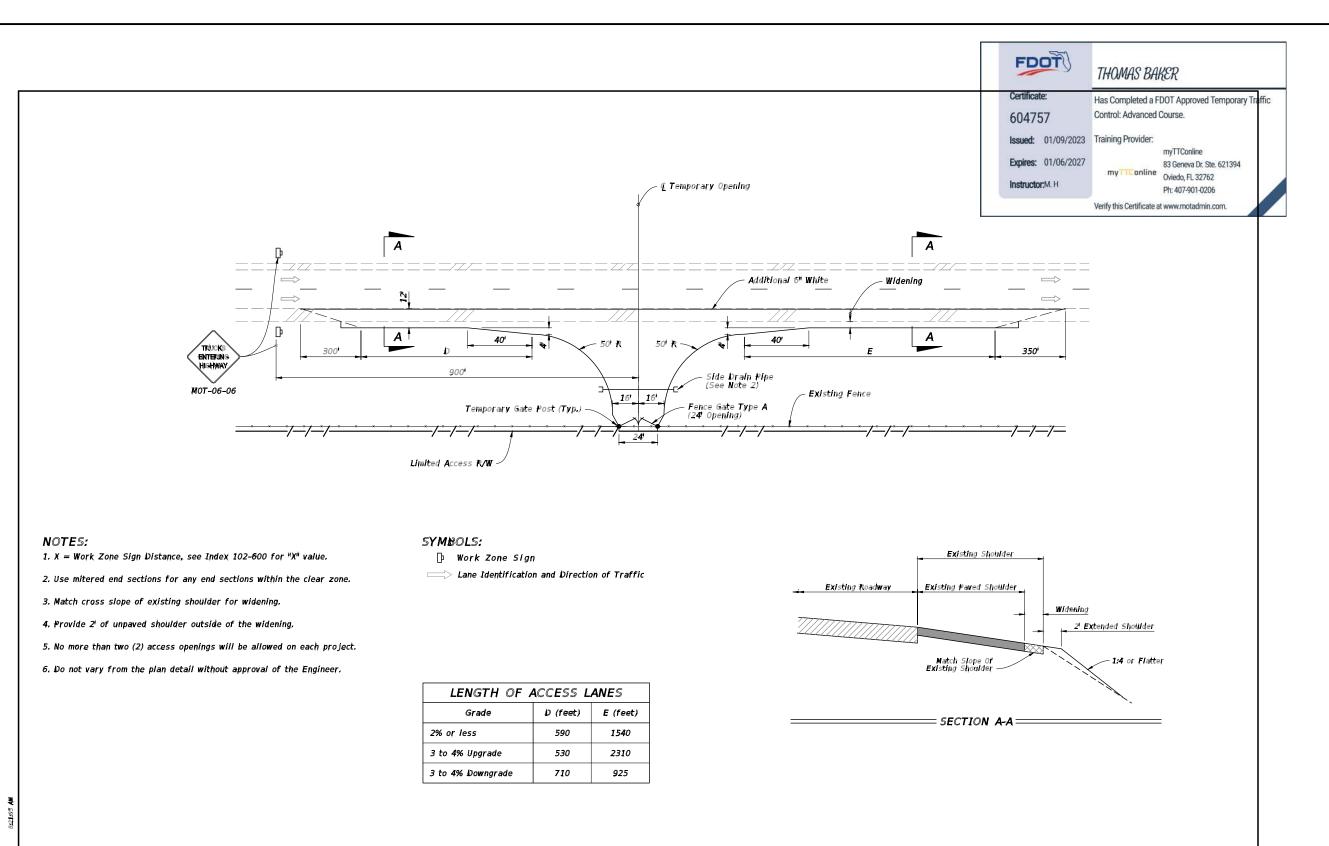


	DATE DRAWN:	10/02/24
	ATC JOB NO:	14873535
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA MKT 143 - MCR
	CUSTOMER ID:	5000957578

MAINTENANCE OF TRAFFIC

SHEET NUMBER:

C-508



∠ DESCRIPTION: LAST REVISION 11/01/20

FY 2023-24 FDON STANDARD PLANS

LIMITED ACCESS TEMPORARY OPENING

IN₽EX SHEET **1**02-665 1 of 1

MAINTENANCE OF TRAFFIC (TYPICAL)

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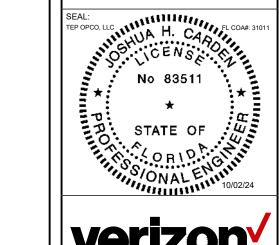
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2212 SE OCTOBER RD LAKE CITY, FL 32024-5533

DESCRIPTION DATE BY PRELIMINARY PVW 09/11/24 90% CONSTRUCTION RMJ 09/24/24 100% CONSTRUCTION BJO 10/02/24

DIGITAL/ELECTRONIC SEAL: THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA H. CARDEN, P.E. ON THE DATE ADJACENT TO THE SEAL.

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	DATE DRAWN:	10/02/24
	ATC JOB NO:	14873535
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA MKT 143 - MCR
	CUSTOMER ID:	5000957578

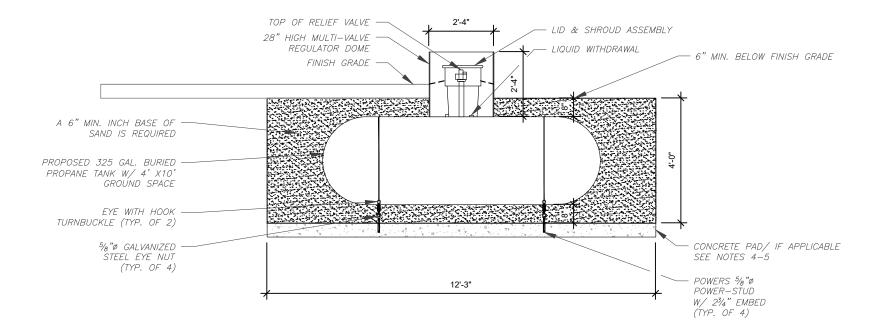
MAINTENANCE OF **TRAFFIC**

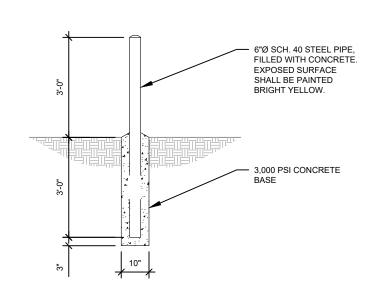
SHEET NUMBER:

C-509

NOTES:

- SIX INCHES OF SAND IN THE BOTTOM OF THE HOLE ARE REQUIRED.
- PRIOR TO BACK FILLING: ONE 17 LB ANODE BAG CONNECTED TO TANK FOR 500 GAL OR LESS, 2 BAGS FOR 501 TO 1000 GAL. PLACE AT LEAST 2' AWAY FROM TANK AND LOW IN THE HOLE, POUR 1 GALLON OF WATER ON BAG AND IMMEDIATELY COVER WITH SAND.
- BACK-FILL: ONCE TANK IS PLACE AND INSPECTED BY THE LOCAL AHJ, IF REQUIRED, BACK FILL THE ENTIRE HOLE WITH SAND, GRADE DOWNWARD AND AWAY FROM HOUSING DOME. THIS PREVENTS WATER FROM COLLECTING AND RUNNING INTO OR STANDING AROUND THE HOUSING DOME.
- CONFIRM IF A CONCRETE PAD IS REQUIRED UNDER THE TANK WITH AHJ AND FUEL PROVIDER.
- IF A CONCRETE PAD IS REQUIRED, DEPTH OF HOLE MUST BE 6" DEEPER TO ACCOMMODATE A 6" CONCRETE PAD IN THE DIMENSIONS OF THE TANK WITH 4 ANCHOR EYE BOLTS (ONE I EACH CORNER OF THE PAD) ATTACH STAINLESS STEEL OR SIMILAR STRAPPING FROM LIFTING LUGS DOWN TO EYE BOLTS.
- TANK INSTALLATION SHALL CONFORM TO REQUIREMENTS OF NFPA 58.





PROPOSED LPG TANK INSTALLATION DETAIL

PROPOSED BOLLARD DETAIL



TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530 FL COA#: 31011

www.tepgroup.net

BJO 10/02/24

TALEIGH, INC 27003-3300 FL COM#. 3 IUT ITEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO. LIC, A DELAWARE LIMITED LIABILITY COMPANY, OR MAH ENGINEERING, LIC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERING, LIC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, OR MEN ENGINEERING, LIC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LIC, A DELAWARE LIMITED LIABILITY COMPANY, WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

ATC SITE NUMBER: 302769

ATC SITE NAME:

I-75 REST AREA VERIZON WIRELESS SITE NAME:

I-75 REST AREA COLUMBIA -

MKT 143- MCR

SITE ADDRESS: 2212 SE OCTOBER RD

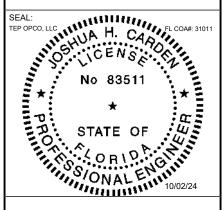
LAKE CITY, FL 32024-5533 DESCRIPTION DATE BY PRELIMINARY PVW 09/11/24 90% CONSTRUCTION RMJ 09/24/24

100% CONSTRUCTION

DATE ADJACENT TO THE SEAL.

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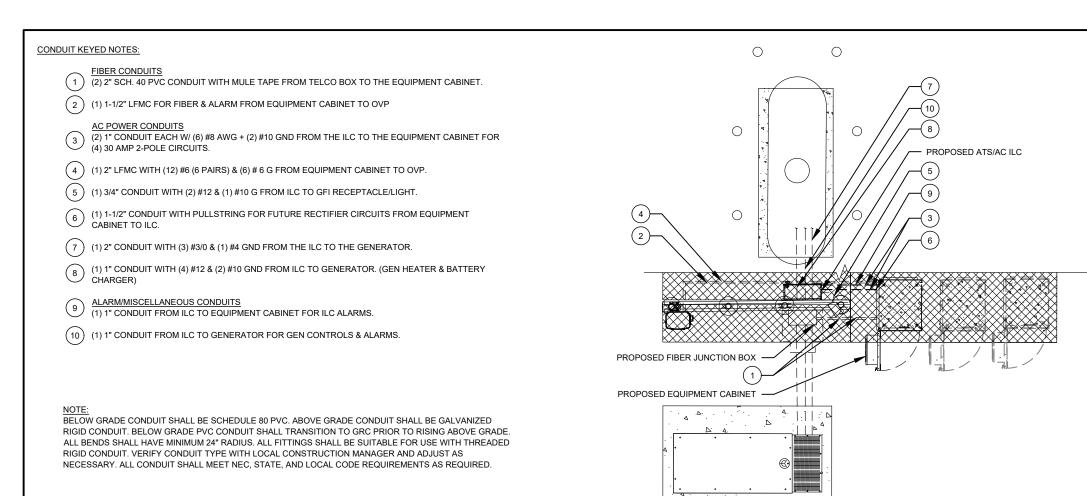
	DATE DRAWN:	10/02/24
	ATC JOB NO:	14873535
	CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
1	CUSTOMER ID:	5000957578

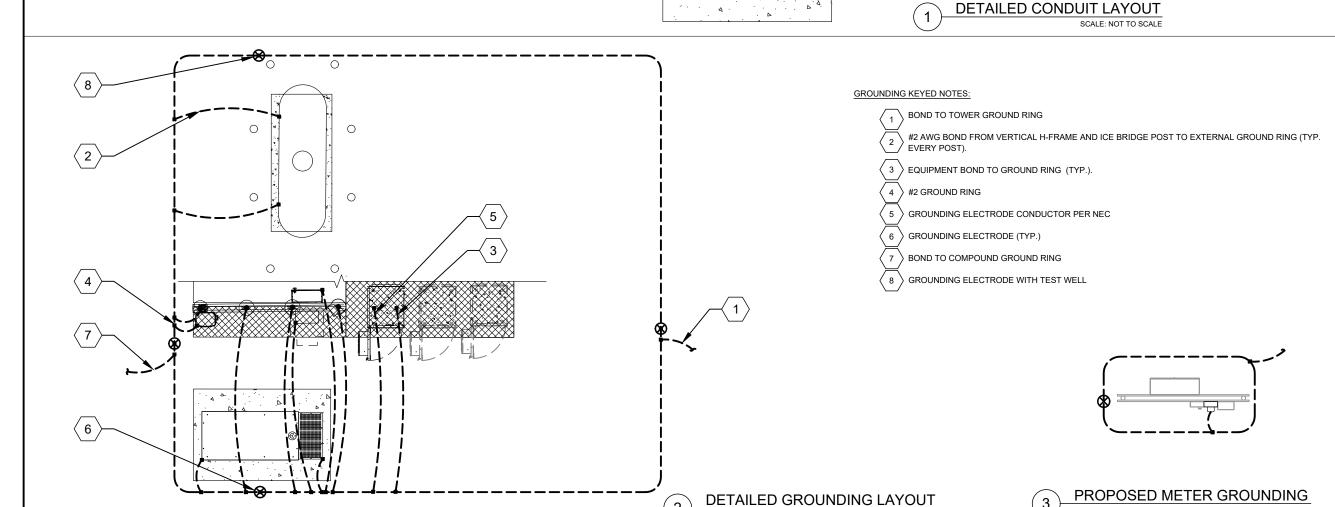
MAINTENANCE OF **TRAFFIC**

SHEET NUMBER:

C-510

0





SCALE: NOT TO SCALE



326 TRYON ROAD RALEIGH, NC 27603-3530

www.tepgroup.net FL COA#: 31011

TED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES I TE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPAN

ATC SITE NUMBER: 302769

ATC SITE NAME:

I-75 REST AREA

VERIZON WIRELESS SITE NAME: I-75 REST AREA COLUMBIA -

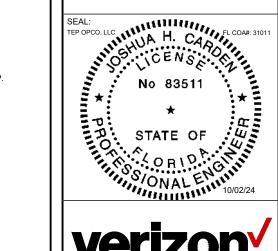
MKT 143- MCR SITE ADDRESS:

2212 SE OCTOBER RD LAKE CITY, FL 32024-5533

BY DATE DESCRIPTION 90% CONSTRUCTION RMJ 09/24/24 100% CONSTRUCTION

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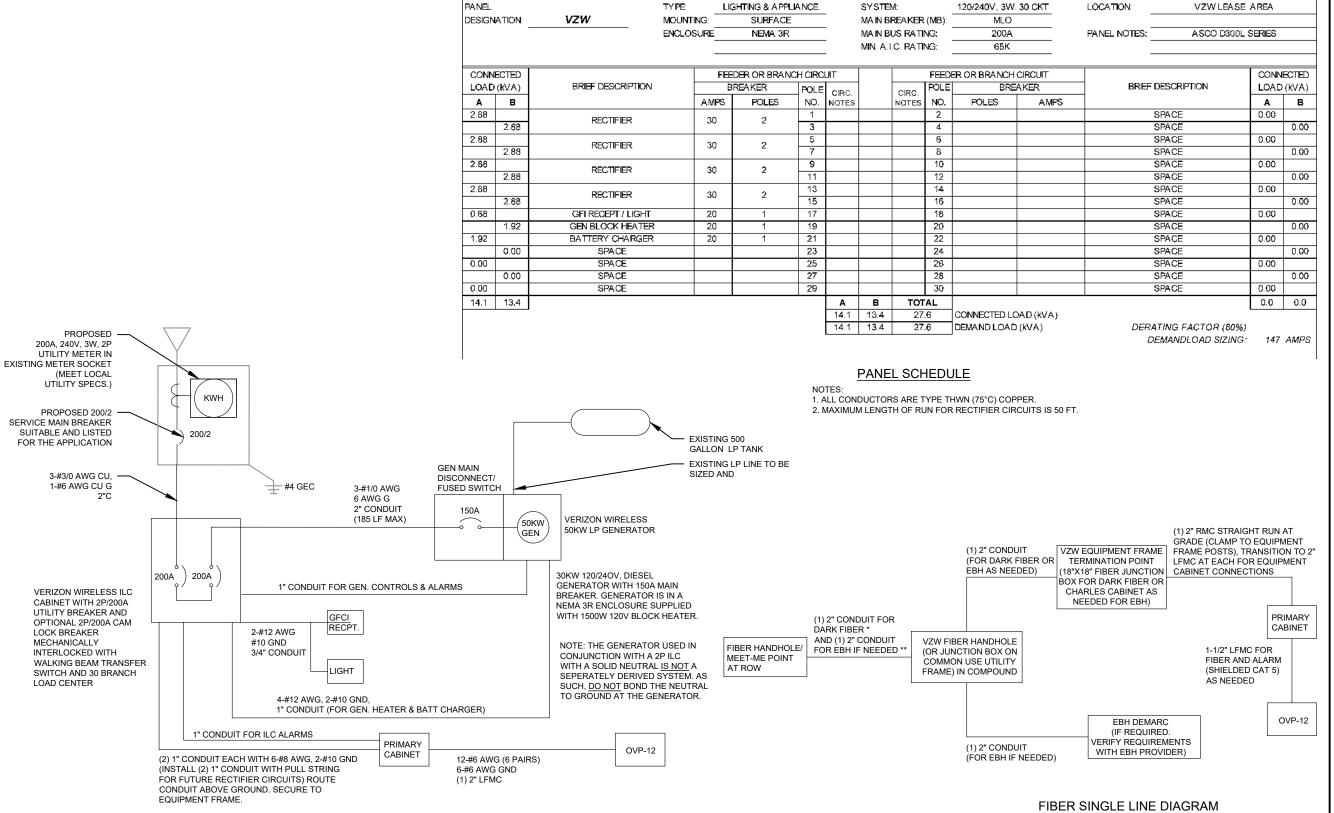




		DATE DRAWN:	10/02/24
		ATC JOB NO:	14873535
		CUSTOMER NAME:	I-75 REST AREA COLUMBIA MKT 143 - MCR
		CUSTOMER ID:	5000957578

GROUNDING PLAN AND NOTES

E-101



ELECTRICAL SINGLE LINE DIAGRAM

- 1. ALL EQUIPMENT SHALL BE NEMA 3R RATED.
- 2. ALL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH TIA-222-G AND VERIZON WIRELESS
- 3. CONDUCTOR SIZES AND DISTANCES HAVE BEEN SIZED FOR 3% MAX VOLTAGE DROP. (TOTAL SYSTEM VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST DEMAND SHALL NOT EXCEED 5%)
- 4. WIRE SIZING AND MAXIMUM DISTANCE FROM GENERATOR TO ILC ASSUMES POWER FACTOR OF 0.9
- 5. BELOW GRADE PVC CONDUIT SHALL TRANSITION TO RMC PRIOR TO RISING ABOVE GRADE, ALL BENDS SHALL HAVE A MINIMUM 24" RADIUS, ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT, VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST IF NECESSARY, ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS REQUIRED.

- * ADD (1) ADDITIONAL 2" CONDUIT FOR DARK FIBER (2 TOTAL) IF REQUIRED BY LOCAL MARKET FACILITIES, VERIFY PRIOR TO CONSTRUCTION, (ADD 2 PULL STRINGS
- ** VERIFY EBH REQUIREMENTS WITH TELCO PROVIDER PRIOR TO CONSTRUCTION. (ADD 2 PULL STRINGS TO EACH CONDUIT)



TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530 www.tepgroup.net FL COA#: 31011

EP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICE: IFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSION NGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OF GINEENING AND LAND SURVEYING SERVICES ARE PROVIDED BY 1EP O'N 2, A DELAWARE LIMITED LABILITY COMPANY, ARE PROGINEERING, LLC, A NOR ROLINA PROFESSIONAL LIMITED LABILITY COMPANY, OR MAH ENGINEERIN C, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, GENER NTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWAI HITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES II ATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPAN

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I-75 REST AREA VERIZON WIRELESS SITE NAME

I-75 REST AREA COLUMBIA -

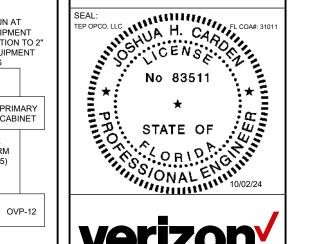
MKT 143- MCR SITE ADDRESS:

2212 SE OCTOBER RD LAKE CITY, FL 32024-5533 DATE DESCRIPTION BY

PRELIMINARY PVW 09/11/24 90% CONSTRUCTION RMJ 09/24/24 100% CONSTRUCTION BJO 10/02/24

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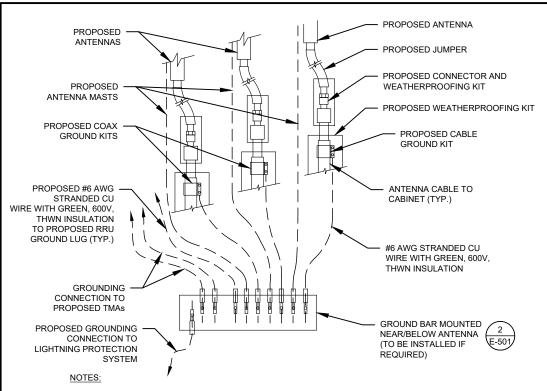




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	CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
	CUSTOMER ID:	5000957578

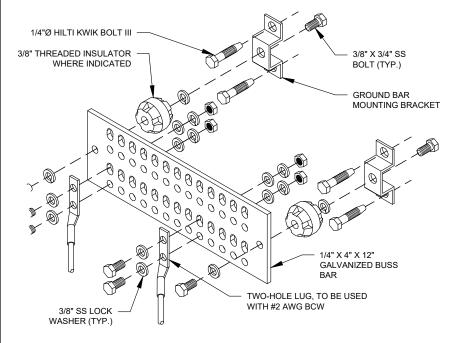
GROUNDING PLAN AND NOTES

E-102



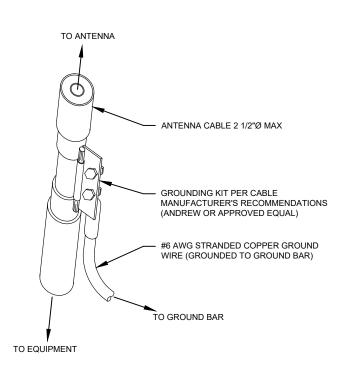
- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
- SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING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





GROUND BAR NOTES

- GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- 2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.



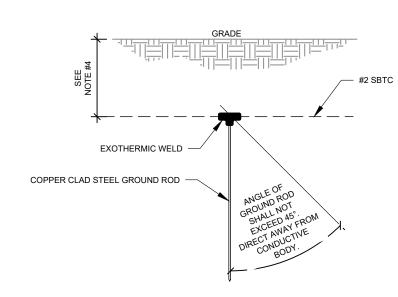
- <u>GROUND KIT NOTES:</u>

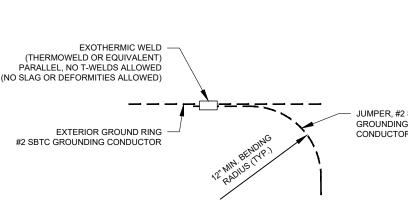
 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS

CABLE GROUND KIT CONNECTION DETAIL

NOTES

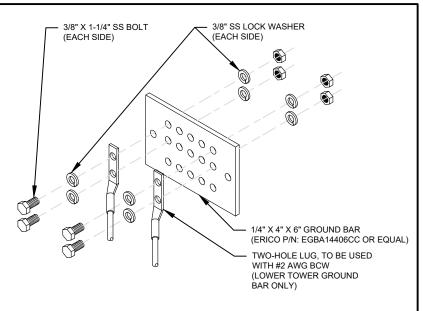
- SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY
- 2. COORDINATE UTILITY, LOCATE BEFORE DIGGING.
- CONDUIT TRENCHING DEPTHS AT 36" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.
- ALL RING AND RADIAL DEPTHS AT 30" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.





GROUND ROD DETAIL

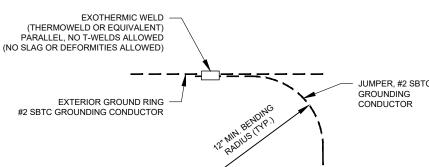
TIE CONNECTION DETAIL SCALE: NOT TO SCALE



GROUND BAR NOTES:

- 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

TOWER GROUND BAR DETAIL





326 TRYON ROAD RALEIGH, NC 27603-3530 www.tepgroup.net FL COA#: 31011

TED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES I TE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPAN

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I-75 REST AREA VERIZON WIRELESS SITE NAME

I-75 REST AREA COLUMBIA -

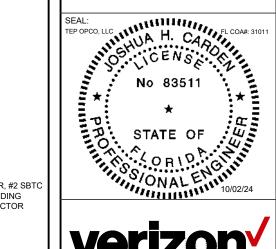
MKT 143- MCR

SITE ADDRESS: 2212 SE OCTOBER RD LAKE CITY, FL 32024-5533

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	CUSTOMER ID:	5000957578

GROUNDING DETAILS

SHEET NUMBER

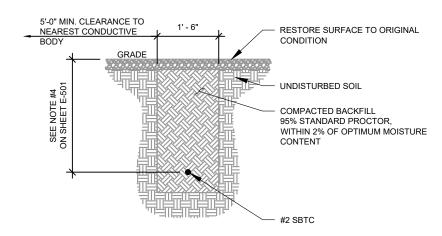
E-501

0

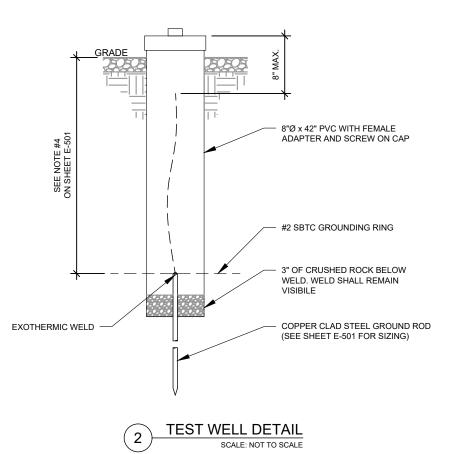
REVISION

MAIN GROUND BAR DETAIL

SCALE: NOT TO SCALE



GROUND CONNECTION TRENCH DETAIL (STD.) SCALE: NOT TO SCALE



TEP OPCO LLC 326 TRYON ROAD RALEIGH, NC 27603-3530 FL COA#: 31011

www.tepgroup.net

RALEIGH, INC 270U3-3330 FL CUCHH. 3 IUTI
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I-75 REST AREA VERIZON WIRELESS SITE NAME:

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SITE ADDRESS: 2212 SE OCTOBER RD

LAKE CITY, FL 32024-5533 DESCRIPTION BY DATE PRELIMINARY PVW 09/11/24

90% CONSTRUCTION RMJ 09/24/24 100% CONSTRUCTION BJO 10/02/24

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SEAL:
TEP OPCO, LLC

NO 83511

STATE OF

ORIO

ONAL

10/02/24



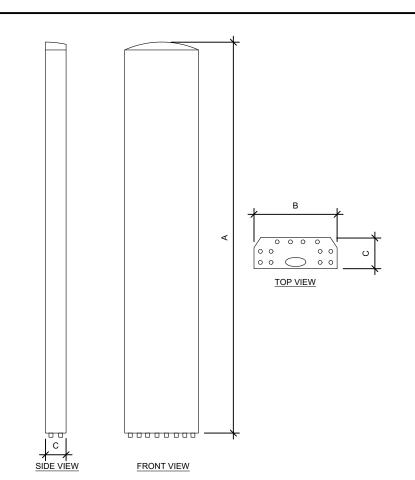
		DATE DRAWN:	10/02/24
		ATC JOB NO:	14873535
		CUSTOMER NAME:	I-75 REST AREA COLUMBIA - MKT 143 - MCR
		CUSTOMER ID:	5000957578

GROUNDING DETAILS

SHEET NUMBER:

E-502

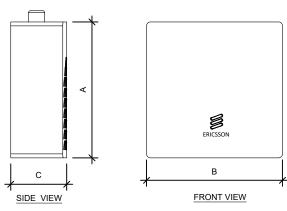
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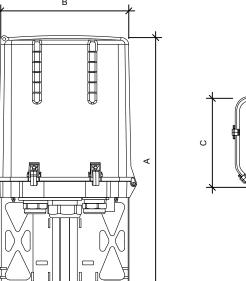
ANTENNA SPECIFICATIONS					
ANTENNA MODEL	А	В	С	WEIGHT (LBS)	
AIR6419 B77D	31.2"	16.1"	9.1"	63.1	
NHH-65C-R2B	96.0"	11.9"	7.1"	51.6	

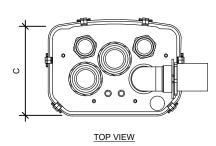


TOP VIEW



RRU SPECIFICATIONS				
RRU MODEL	А	В	С	WEIGHT (LBS)
RRUS 4490	20.6"	15.7"	7.0"	68.4
RRUS 4890	20.6"	15.7"	7.2"	69.5





FRONT VIEW

OVP SPECIFICATIONS					
RAYCAP MODEL	А	В	С	WEIGHT (LBS)	
RVZDC-6627-PF-48	28.9"	15.7"	10.3"	32.0	

SUPPLEMENTAL

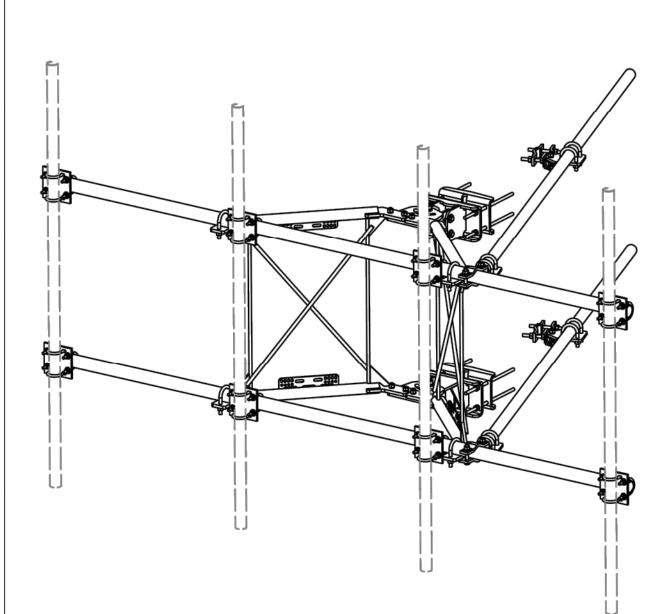
SHEET NUMBER:

R-601

REVISION:

- EQUIPMENT SPECIFICATIONS

SCALE: NOT TO SCALE



			PARTS LIST			
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM		71.41	142.81
2	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
3	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
4	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
5	2	X-LCBP4	BENT BACKING PLATE	13 in	20.04	40.09
6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.49
8	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
9	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
10	8	SCX2	CROSSOVER PLATE	7 in	4.80	38.37
11	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
12	8	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	18.90
13	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
14	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
15	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
16	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
17	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
18	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT	1	0.21	0.85
19	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)	1	1.57	12.54
20	4	G58R-12	5/8" x 12" THREADED ROD (HDG.)	1	1.05	4.18
21	4	G58R-8	5/8" x 8" THREADED ROD (HDG.)	1	0.70	2.79
22	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)	1	1.15	4.60
23	8	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	8.00
24	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
25	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
26	8	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	3.55
27	4	G5802	5/8" x 2" HDG HEX BOLT GR5	1	0.27	1.08
28	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
29	25	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.76
30	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
31	71	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	9.22
32	32	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	23.64
33	16	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	9.56
34	64	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.18
35	64	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.89
36	64	G12NUT	1/2" HDG HEAVY 2H HEX NUT	1	0.07	4.58
					TOTAL WT. #	740.26

		TOLERANCE NOTES			
					TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030") DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	6/29/2018	LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
С	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017	BENDS ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.030")
В	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017	ALL OTHER MACHINING (\$ 0.030)
Α	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017	
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE	PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT
	REVISION HISTORY	INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.			

TOLERANCE NOTES TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030")

DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES

LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

DESCRIPTION 12' 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS

CEK 1/25/2017

CUSTOMER

DRAWN BY

81 02

DRAWING USAGE

A valmont **T** COMMAN

Engineering Support Team: 1-888-753-7446

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

VFA12-HD VFA12-HD

SUPPLEMENTAL

SHEET NUMBER:

R-602

PROPOSED SECTOR MOUNT DETAIL

BMC 12/13/2017

GENERAC | INDUSTRIAL

Demand Response Rating 50 kW, 63 kVA, 60 Hz

Prime Power Rating 45 kW, 56 kVA, 60 Hz





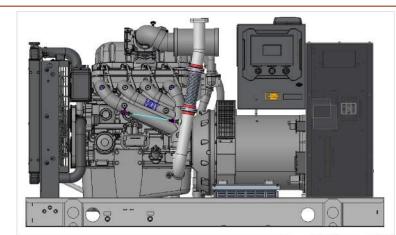


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.



UL2200, UL6200, UL1236, UL489



CSA C22.2



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. os pd 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 singlesource responsibility.

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SG050NA | 4.5L | 50 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- · Air Cleaner
- Fan Guard
- · Stainless Steel Flexible Exhaust Connection
- · Factory Filled Oil and Coolant
- · Critical Silencer
- · Oil Temperature Sender with Alarm
- · Air Filter Restriction Indicator

Fuel System

- · Fuel Line NPT Connection
- · Primary and Secondary Fuel Shutoff

Cooling System

- · Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- · Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- · Radiator Drain Extension

Electrical System

- · Battery Charging Alternator
- · Battery Cables
- Battery Tray
- · Rubber-Booted Engine Electrical Connections
- · Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- · Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- · Sealed Bearing
- · Full Load Capacity Alternator

GENERATOR SET

· Internal Genset Vibration Isolation

GENERAC INDUSTRIAL

- · Separation of Circuits High/Low Voltage
- · Separation of Circuits Multiple Breakers
- · Wrapped Exhaust Piping
- · Standard Factory Testing
- · 2 Year Limited Warranty (Standby Rated Units)
- . 1 Year Limited Warranty (Prime Rated Units)

ENCLOSURE (If Selected)

- · Rust-Proof Fasteners with Nvlon Washers to Protect Finish
- · High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- · Gasketed Doors
- · Stamped Air-Intake Louvers
- . Upward Facing Discharge Hoods (Radiator and Exhaust)
- · Stainless Steel Lift Off Door Hinges
- · Stainless Steel Lockable Handles
- RhinoCoat™ Textured Polyester Powder Coat Paint

CONTROL SYSTEM

Power Zone Pro® Controller

- . NFPA 110 Level 1 Compliant
- · Engine Protective Functions · Alternator Protective Functions
- . Digital Engine Governor Control · Digital Voltage Regulator
- · Multiple Programmable Inputs and Outputs · Remote Display Capability
- · Remote Communication via Modbus® RTU,
- Modbus TCP/IP, and Ethernet 10/100 · Alarm and Event Logging with Real Time Stamping
- · Expandable Analog and Digital Inputs and Outputs
- · Remote Wireless Software Update Capable
- · Wi-Fi, Bluetooth, BMS, and Remote Telemetry . Built-In Programmable Logic Eliminates the Need for
- External Controllers Under Most Conditions · Programmable I/O Channel Properties
- · Built-In Diagnostics

Alarms and Warnings

- · High/Low Oil Pressure
- · High/Low Coolant Level
- · High/Low Coolant Temperature Sender/Sensor Failure
- · High/Low Oil Temperature
- Over Total kW
- · Over/Under Speed
- Over/Linder Voltage
- Over/Under Frequency Over Current
- · High/Low Battery Voltage
- . Battery Charger Current
- · Phase to Phase and Phase to Neutral Short Circuits (I²T Algorithm)

4.3 Inch Color Touch Screen Display

- · Resistive Color Touch Screen
- · Easily Identifiable Icons Multi-Lingual
- · On Screen Editable Parameters
- · Key Function Monitoring . Three Phase Voltage, Amperage, kW, kVA, and kVAr
- . Selectable Line to Line or Line to
- Neutral Measurements Frequency
- · Engine Speed
- · Engine Coolant Temperature
- · Engine Oil Pressure
- · Engine Oil Temperature
- Battery Voltage Hourmeter

Diagnostics

- · Warning and Alarm Indication
- Maintenance Events/Information

SUPPLEMENTAL

R-603

PROPOSED GENERATOR DETAIL

UNDERGROUND/ABOVEGROUND TANKS (AG/UG)



WHY CHOOSE QUALITY STEEL **UNDERGROUND TANKS?**

- 120 1,990 WG CAPACITY
- General Specifications
- Conforms to the latest edition of ASME Rules for Construction of Pressure Vessels, Section VIII, Division 1.
- Complies with NFPA 58.
- Rated at 250 psig from -20° F to 125° F. All vessels registered with National Board.
- Two service options available:
- Option 1: Ready-to-bury underground option, coated with either powder coated phenolic epoxy finish or liquid applied epoxy primer coat followed by urethane top coat, supplied with composite AG/UG dome
- Option 2: Aboveground option, coated with either powder coated TGIC polyester finish or liquid applied epoxy primer coat followed by urethane top coat, supplied with steel AG/UG dome
- · Family & employee owned
- · Financing and leasing available
- Customized delivery programs available

We want to make it easier for you to do your tank business! 2914 U.S. 61 · Cleveland, MS 38732 · 800-345-2495 · www.propanetank.com

HOW DO I FIND MY SALES REP?

Visit our website, www.propanetank.com to view a list of our reps. Once on our site you'll be able to choose the Commercial options and from there you'll be taken to a list of US states where you can choose your location and view the contact information for your local sales rep. If you don't see your sales rep. please give us a call at 800-345-2495.

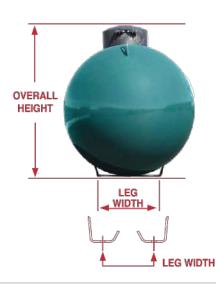
Our manufacturing locations are strategically located to help serve your tank needs.

OHIO LOCATION 721 Graham Drive Fremont, OH 43420 419-334-2664 UTAH LOCATION HOME OFFICE 5601 Axel Park Rd. 2914 U.S. 61 West Jordan, UT 84081 Cleveland, MS 38732 801-280-1133 800-345-2495

UNDERGROUND/ABOVEGROUND TANKS (AG/UG)

Consult our dimension and specification chart below to find the tank that best fits your needs. Visit our website at www.propanetank.com for more information.





APPROXIMATE ABOVEGROUND/UNDEGROUND (AG/UG) VESSEL DIMENSIONS AND SPECIFICATIONS

WATER	DIAMETER	HEAD	OVERALL	OVERALL	LEG*	LEG**	WEIGHT	**QU/	ANTITY
CAPACITY	(OD)	TYPE	LENGTH	HEIGHT	WIDTH	SPACING	(lbs.)	FULL LOAD	PER STACK
*120 wg.	24"	Ellip.	5'-8"	3'	1'-1 1/2"	2'-10 1/2" or 3'-11"	260	108 96	16 12
*250 wg.	30"	Hemi.	7'-10"	3'-8"	1'-5"	4'-11"	480	54	9
*320 wg.	30"	Hemi.	9'-7"	3'-8"	1'-5"	5'	620	45	9
500 wg.	37 1/2"	Hemi.	10'	4'-2"	1'-8"	5'	950	37 30	8 6
1000 wg.	41"	Hemi.	16'	4'-5"	1'-8"	10'-1"	1,800	17 15	6 5
1450 wg.	46 1/2"	Ellip.	17'-4"	4'-11"	1'-9"	11'-7"	2,650	12	4
1990 wg.	46 1/2"	Ellip.	23'-11"	4'-11"	1'-9"	16'	3,520	8	4

Dimensions and specifications shown are approximate. Individual vessels may vary

^{**} Full load and stack quantities vary by shipping location. Check with your salesperson for details.



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NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

Quality Steel 6/2017 S2

SUPPLEMENTAL

PROPOSED 500 GAL. LPG TANK DETAIL

^{*} Leg spacing +/- 2". Leg widths and spacing may vary based on mfg. location. Check with your salesperson for details. 120, 250, 320 wg. standard tanks - no holes in legs (one center hole on request). 500 and 1000 wg. standard tanks - 2 holes 16" on center. 1450 wg. and up as shown above.

EPA Certified Stationary

Standby Power Rating 50 kW, 63 kVA, 60 Hz

Demand Response Rating 50 kW, 63 kVA, 60 Hz

Prime Power Rating 45 kW, 56 kVA, 60 Hz





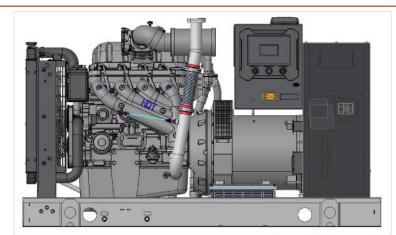


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GENERAC | INDUSTRIAL

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SAE J1349



BS5514 and DIN 6271



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4.5L | 50 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- · Air Cleaner
- Fan Guard
- · Stainless Steel Flexible Exhaust Connection
- · Factory Filled Oil and Coolant
- · Critical Silencer
- · Oil Temperature Sender with Alarm
- · Air Filter Restriction Indicator

Fuel System

- · Fuel Line NPT Connection
- · Primary and Secondary Fuel Shutoff

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- · Rubber-Booted Engine Electrical Connections
- · Solenoid Activated Starter Motor

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- · Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- · Sealed Bearing
- · Full Load Capacity Alternator

GENERATOR SET

- · Internal Genset Vibration Isolation
- · Separation of Circuits High/Low Voltage
- · Separation of Circuits Multiple Breakers
- · Wrapped Exhaust Piping
- · Standard Factory Testing
- · 2 Year Limited Warranty (Standby Rated Units)
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ENCLOSURE (If Selected)

- · Rust-Proof Fasteners with Nvlon Washers to Protect Finish
- · High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
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- . Battery Charger Current
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- Neutral Measurements Frequency
- · Engine Speed
- · Engine Coolant Temperature
- · Engine Oil Pressure
- · Engine Oil Temperature Battery Voltage
- Hourmeter
- · Warning and Alarm Indication
- Diagnostics
- Maintenance Events/Information

SUPPLEMENTAL

R-605

PROPOSED 30KW GENERATOR DETAIL

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL

O NFPA 110 Compliant 21-Light Remote Annunciator

Remote E-Stop (Break Glass-Type, Surface Mount)
 Remote E-Stop (Red Mushroom-Type,

O Remote E-Stop (Red Mushroom-Type, Flush Mount)

CONTROL SYSTEM

Surface Mount)

100 dB Alarm Hom

O Ground Fault Annunciation

O 10A Engine Run Relay

O 120V GFCI and 240V Outlets

O 8 in (203.2 mm) Fill Extension

O 13 in (330.2 mm) Fill Extension

O 19 in (482.6 mm) Fill Extension

O 5 Gallon Spill Box Return Hose

Fuel Level Switch and Alarm

O Fire Rated Stainless Steel Fuel Hose

O Overfill Protection Valve

5 Gallon Spill Box

O 12' Vent System

Tank Risers

Remote Communication - Modem

FUEL TANKS (Size On Last Page)

O Remote Relay Assembly (8 or 16)

Oil Temperature Indication and Alarm

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Heater
- O Critical Silencer (Open Set Only)
- Radiator Stone Guard
- O Level 1 Fan and Belt Guards (Enclosed Units Only)

FUEL SYSTEM

O NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- O 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- O Permanent Magnet Excitation

GENERATOR SET

- Extended Factory Testing
- 8 Position Load Center
- Pad Vibration Isolation

ENGINEERED OPTIONS

ENGINE SYSTEM

- O Coolant Heater Isolation Ball Valves
- Fluid Containment Pan

CONTROL SYSTEM

Spare Inputs (x4) / Outputs (x4)
 Battery Disconnect Switch

CIRCUIT BREAKER OPTIONS

- O Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
 Electronic Trip Breakers

ENCLOSURE

- O Weather Protected Enclosure
- Level 1 Sound Attenuation
 Level 2 Sound Attenuation
- O Level 2 Sound Attenuation with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
 Door Open Alarm Switch
- Door Upen Alarm Sv
- Enclosure Heater
 Damper Alarm Contacts

WARRANTY (Standby Gensets Only)

- O 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty7 Year Extended Limited Warranty
- O 10 Year Extended Limited Warranty

ALTERNATOR SYSTEM

O 3rd Breaker System

GENERATOR SET

O Special Testing

- FUEL TANKS

 UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks
- Vent Extensions

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Туре	In-Line
Displacement - in ³ (L)	135 (2.22)
Bore - in (mm)	3.3 (84)
Stroke - in (mm)	3.9 (100)
Compression Ratio	23.3:1
Intake Air Method	Turbocharged
Cylinder Head	Cast Iron
Piston Type	Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.5%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow
Crankcase Capacity - qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Closed Recovery	
Water Pump Type	Pre-Lubed, Self Sealing	
Fan Type	Pusher	
Fan Speed - RPM	1,980	
Fan Diameter - in (mm)	18 (457)	

GENERAC INDUSTRIAL

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Inject Pump	Distribution Injection Pump
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line - in (mm)	0.31 (7.9) ID
Fuel Return Line - in (mm)	0.2 (4.8) ID

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	Н
Total Harmonic Distortion	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	< 50

Synchronous Brushless
Single Sealed
Dîrect via Flexible Dîsc
100%
Yes
Digital
All
±0.25%

PEP SHEET

SUPPLEMENTAL

SHEET NUMBER:

R-606

6 |

REVISION:

SPEC SHEET



EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

	Standby		
Single-Phase 120/240 VAC @1.0pf	30 kW	Amps: 125	
Three-Phase 120/208 VAC @0.8pf	30 kW	Amps: 104	
Three-Phase 120/240 VAC @0.8pf	30 kW	Amps: 90	
Three-Phase 277/480 VAC @0.8pf	30 kW	Amps: 45	
Three-Phase 346/600 VAC @0.8pf	30 kW	Amps: 36	

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip					
120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%	208/240 VAC 3Ø	30%
A0035044N21	20	K0035124Y21	61	K0035124Y21	46
A0040044N21	24	K0040124Y21	76	K0040124Y21	58
A0050044N21	31	K0050124Y21	98	K0050124Y21	75

FUEL CONSUMPTION RATES*

	Diesel - gph (Lph)		
Fuel Pump Lift- ft (m)	Percent Load	Standby	
3 (1)	25%	1.0 (3.7)	
	50%	1.4 (5.2)	
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	2.0 (7.5)	
16.6 (63)	100%	2.8 (10.5)	
	* Fuel supply installation must accommodate fuel consumption rates at 100% load.		

COOLING

		Standby
Coolant Flow	gpm (Lpm)	14.9 (56.2)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW)	128,638 (136)
Inlet Air	cfm (m³/hr)	2,800 (4,757)
Maximum Operating Ambient Temperature	°F (°G)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	g Ambient Temperature (Before Derate) See Bulletin No. 0199280SSI	
Maximum Additional Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

Flow at Rated Power - cfm (m ⁸ /min) 88 (2.5)		Standby	
	Flow at Rated Power - cfm (m³/min)	88 (2.5)	

ENGINE EXHAUST

		Standby		
Rated Engine Speed	RPM	1,800	Exhaust Flow (Rated Output)	cfm (m³/min)
Horsepower at Rated kW**	hp	49	Max. Allowable Backpressure (Post Turbocharger)	inHg (kPa)
Piston Speed	ft/min (m/min)	1,181 (360)	Exhaust Temperature (Rated Output)	°F (°C)
BMEP	psi (kPa)	159 (1,096)		

^{**} Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 0187500SSB

Prime - See Bulletin 0187510SSB

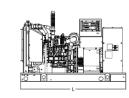
SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL

DIMENSIONS AND WEIGHTS*



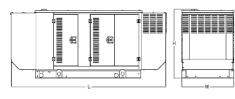


OPEN S	SET		
Run Time - Hours	Usable Capacity - Gal (L)	LxWxH-in (mm)	Weight - lbs (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,456 - 1,641 (661 - 745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	1,936 - 2,121 (879 - 963)
47	132 (500)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,166 - 2,351 (983 - 1,067)
67	190 (719)	76.0 (1,930) x 37.4 (950) x 79.3 (2,014)	2,380 - 2,565 (1,081 - 1,165)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,375 - 2,560 (1,078 - 1,162)
107	300 (1,136)	92.9 (2,360) x 37.4 (950) x 85.3 (2,167)	2,438 - 2,623 (1,106 - 1,190)



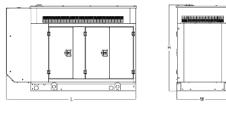
WEATHER PROTECTED ENCLOSURE

Run Time	Usable Capacity	LxWxH-in (mm)		t - Ibs (kg) sure Only
- Hours	- Gal (L)		Steel	Aluminum
No Tank	m	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)		
47	132 (500)	106.0 (2,692) x 38.0 (965) x 84.0 (2,134)	372	241
67	190 (719)	94.8 (2,409) x 38.0 (965) x 84.0 (2,134)	(169)	(109)
75	211 (799)	76.0 (1,930) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	92.9 (2,360) x 38.0 (965) x 90.0 (2,287)		



LEVEL 1 SOUND ATTENUATED ENCLOSURE

Run Time Usable Capacity			L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only		
	- Gal (L)		Steel	Aluminum		
	No Tank		112.5 (2,857) x 38.0 (965) x 49.5 (1,258)			
	19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,588)	505 (229)	338 (153)	
	47	132 (500)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)			
	67	190 (719)	112.5 (2,857) x 38.0 (965) x 84.0 (2,134)			
	75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)			
	107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 90.0 (2,287)			



LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Tim - Hours	Run Time	Usable Capacity	L x W x H - in (mm)		- Ibs (kg) ure Only	
	- Hours	- Gal (L)		Steel	Aluminum	
	No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)			
	19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)	510 (231)	341	
	47	132 (500)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)			
	67	190 (719)	106.0 (2,692) x 38.0 (965) x 84.0 (2,134)		(155)	
	75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)			
	107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 90.0 (2,287)			

^{*} All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

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SUPPLEMENTAL

SHEET NUMBER:

R-607

7 |

REVISION:

PROPOSED 30KW GENERATOR DETAIL

Standby

296.6 (8.4)

1.5 (5.1)

892 (478)