



AMERICAN TOWER®

ATC SITE NAME: I-75 EXIT 81 ATC SITE NUMBER: 302825

VERIZON SITE NAME: 175 HWY47

VERIZON SITE NUMBER: 5000165925 VERIZON FUZE PID: 16066137

SITE ADDRESS: ROUTE 10, BOX 1010

LAKE CITY, FL 32024

SHEET



LOCATION MAP

VERIZON COLLO	OCATION PLAN

COMPLIANCE CODE	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	
2023 FLORIDA BUILDING CODE, 8TH EDITION ANSI/TIA-222-H	

- 8TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA 70)
- 2020 NATIONAL ELECTRICAL CODE.
- CITY/COUNTY ORDINANCES

DESIGN CRITERIA

ULTIMATE WIND SPEED: 119 mph (3-second gust) SERVICE WIND SPEED: N/A RISK CATEGORY: II EXPOSURE CATEGORY: C TOPOGRAPHIC FACTOR: 1.00

UTILITY COMPANIES

POWER COMPANY: N/A PHONE: N/A TELEPHONE COMPANY:N/A PHONE: N/A



facilities located and marked.

check positive response codes before you dig!

PROJECT SUMMARY PROJECT DESCRIPTION

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY,FL 32024 COUNTY: COLUMBIA

GEOGRAPHIC COORDINATES:

LATITUDE: 30.117738° 30-07-03.86N NAD83 LONGITUDE: -82.655222° 82-39-18.80W GROUND ELEVATION: 197' (AGL)

ZONING INFORMATION:

JURISDICTION: UNINC. COLUMBIA COUNTY, FL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801

APPLICANT: VERIZON WIRELESS

PROFESSIONAL OF RECORD:

ROBERT J. LARA, AIA 2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 (954) 577-4668 rlara@morrisonhershfield.com

PROPERTY OWNER:

ATC OWNED TOWER MANAGEMENT AGREEMENT: FDOT

THE PROPOSED PROJECT INCLUDES PLACING EQUIPMENT CABINETS AND A 48KW LP GENERATOR ON PROPOSED CONCRETE PAD INSIDE A 12'-0"x30'-0" GROUND SPACE AND A PROPOSED 500 GAL, BURIED LPG TANK W/ 4'-0"x10'-0" GROUND SPACE WITHIN THE EXISTING COMPOUND, AND PLACING NEW ANTENNAS ON PROPOSED SECTOR FRAMES MOUNTED TO EXISTING TOWER.

PROJECT NOTES

- THE FACILITY IS UNMANNED.
- A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
- THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
- NO SANITARY SEWER. POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
- HANDICAP ACCESS IS NOT REQUIRED.
- THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

PROJECT LOCATION DIRECTIONS

SITE IS LOCATED DIRECTLY OFF OF I-75 AT EXIT 81 (MILE MARKER 424). AT STATE ROUTE 47

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	1	06/04/24	RA
G-002	GENERAL NOTES	1	06/04/24	RA
C-001	OVERALL SITE PLAN	1	06/04/24	RA
C-101	DETAILED COMPOUND PLAN	1	06/04/24	RA
C-102	DETAILED EQUIPMENT PLAN	1	06/04/24	RA
C-201	TOWER ELEVATION	1	06/04/24	RA
C-401	ANTENNA INFORMATION & SCHEDULE	1	06/04/24	RA
C-501	CONSTRUCTION DETAILS	1	06/04/24	RA
C-502	CONSTRUCTION DETAILS	1	06/04/24	RA
C-503	CONSTRUCTION DETAILS	1	06/04/24	RA
C-504	CONSTRUCTION DETAILS	1	06/04/24	RA
C-505	CONSTRUCTION DETAILS	1	06/04/24	RA
C-506	CONSTRUCTION DETAILS	1	06/04/24	RA
C-507	CONSTRUCTION DETAILS	1	06/04/24	RA
C-508	CONSTRUCTION DETAILS	1	06/04/24	RA
C-509	CONSTRUCTION DETAILS	1	06/04/24	RA
E-101	GROUNDING PLAN AND NOTES	1	06/04/24	RA
E-102	ONE-LINE DIAGRAM & PANEL SCHEDULE	1	06/04/24	RA
E-501	GROUNDING DETAILS	1	06/04/24	RA
P-101	PLUMBING COMPOUND PLAN	1	06/04/24	RA
P-501	GAS PIPING ISOMETRIC	1	06/04/24	RA
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			
R-606	SUPPLEMENTAL			
R-607	SUPPLEMENTAL			
R-608	SUPPLEMENTAL			
R-609	SUPPLEMENTAL			

SHEET INDEX

SUPPLEMENTAL





PLANTATION, FL 33324 Tel: 954 577 4655

WWW.ITIOMISONERSHIELD.COM

DO NOT SCALE DRAWING, CONTRACTOR MUST VERIFY ALL

DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR

OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF

COUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE

OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY

ROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE

ROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL

ORDINALS IS SUITED OF THIS PROMENCE. REVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION.

www.morrisonhershfield.cor

	REV	. DESCRIPTION	BY	DATE
	\triangle	PRELIM	RA	12/15/23
	$\overline{\mathbb{A}}$	REVISED AS PER RFDS	RA	02/02/24
-	Æ	REVISED AS PER COMMENTS	RA	02/21/24
	\triangle	FINAL	JK_	04/03/24
	Λ	FINAL	RA	06/04/24

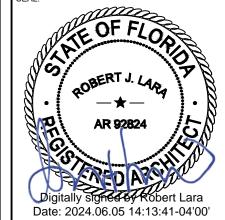
ATC SITE NUMBER: 302825 ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: **ROUTE 10, BOX 1010** LAKE CITY, FL 32024





MH PROJ NO:	240013800
ATC JOB NO:	14538915
CUSTOMER ID:	I75 HWY47
CUSTOMER #:	5000165925

TITLE SHEET

SHEET NUMBER:

G-001

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) AC/TELCO INTERFACE BOX (PPC)
 - ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MONOPOLES
 - TOWER LIGHTING
 - GENERATORS & LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - ANTENNAS (INSTALLED BY OTHERS)
 - TRANSMISSION LINE
 - TRANSMISSION LINE JUMPERS
 - TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - TRANSMISSION LINE GROUND KITS
 - HANGERS
 - HOISTING GRIPS
 - O. BTS EQUIPMENT
- 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
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION
- 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.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS
- 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,
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES. GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- 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.
- EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 15. INSTALLATION LISING 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
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- 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

- 22. PRIOR TO SUBMISSION OF BID. CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND 24. APPROVAL PRIOR TO FARRICATION
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS
- 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 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
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SPECIAL CONSTRUCTION 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 OWNER'S SATISFACTION.
- 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
- 31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR
 MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
- VERIZON FURNISHED FOLIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP
- VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL
- 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
 - 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
 - E. ASTM F-1554 07 ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
- 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
- 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
- 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

- 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
- 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.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE
- ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND VERIZON PROJECT MANAGER IN WRITING

ANTENNA INSTALLATION NOTES:

- WORK INCLUDED:
 - 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
 - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.
 - INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST
 - F 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 RES "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.
 - 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:
- ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

CONCRETE AND REINFORCING STEEL NOTES:

- 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
- 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.
- THE FOLLOWING MATERIALS SHALL BE USED: PORTLAND CEMENT: ASTM C150, TYPE 2

REINFORCEMENT: ASTM A185 PLAIN STEEL WELDED WIRE FABRIC

ASTM C 260/C 260M

REINFORCEMENT BARS ASTM A615, GRADE 60, DEFORMED

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

-AIR-ENTERING AGENT:

ADMIXTURES: ASTM C 494/C 494M, TYPE A -WATER-REDUCING AGENT:

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

- MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3".
- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4 LINLESS NOTED OTHERWISE
 - 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.
- 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.
- 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.
- ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH.
- 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.
- 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
- 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
- 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.
- SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6"

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.
- 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 COURSE 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.





PLANTATION, FL 33324 Tel: 954 577 4655 www.morrisonhershfield.cor

WWW.TIDTISOTHESTHIEID.COTT

DO NOT SCALE DRAWING, CONTRACTOR MUST VERIFY ALL

DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR

OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF

OCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSU

OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY OHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL E ROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. AL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION.

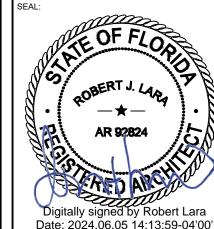
REV DESCRIPTION BY DATE **PRELIM** RA 12/15/23 REVISED AS PER RFDS RA 02/02/24 C REVISED AS PER COMMENTS RA 02/21/24 JK 04/03/24 FINAL FINAL RA 06/04/24 ATC SITE NUMBER

> 302825 ATC SITE NAME:

> > I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47 SITE ADDRESS: **ROUTE 10. BOX 1010** LAKE CITY, FL 32024

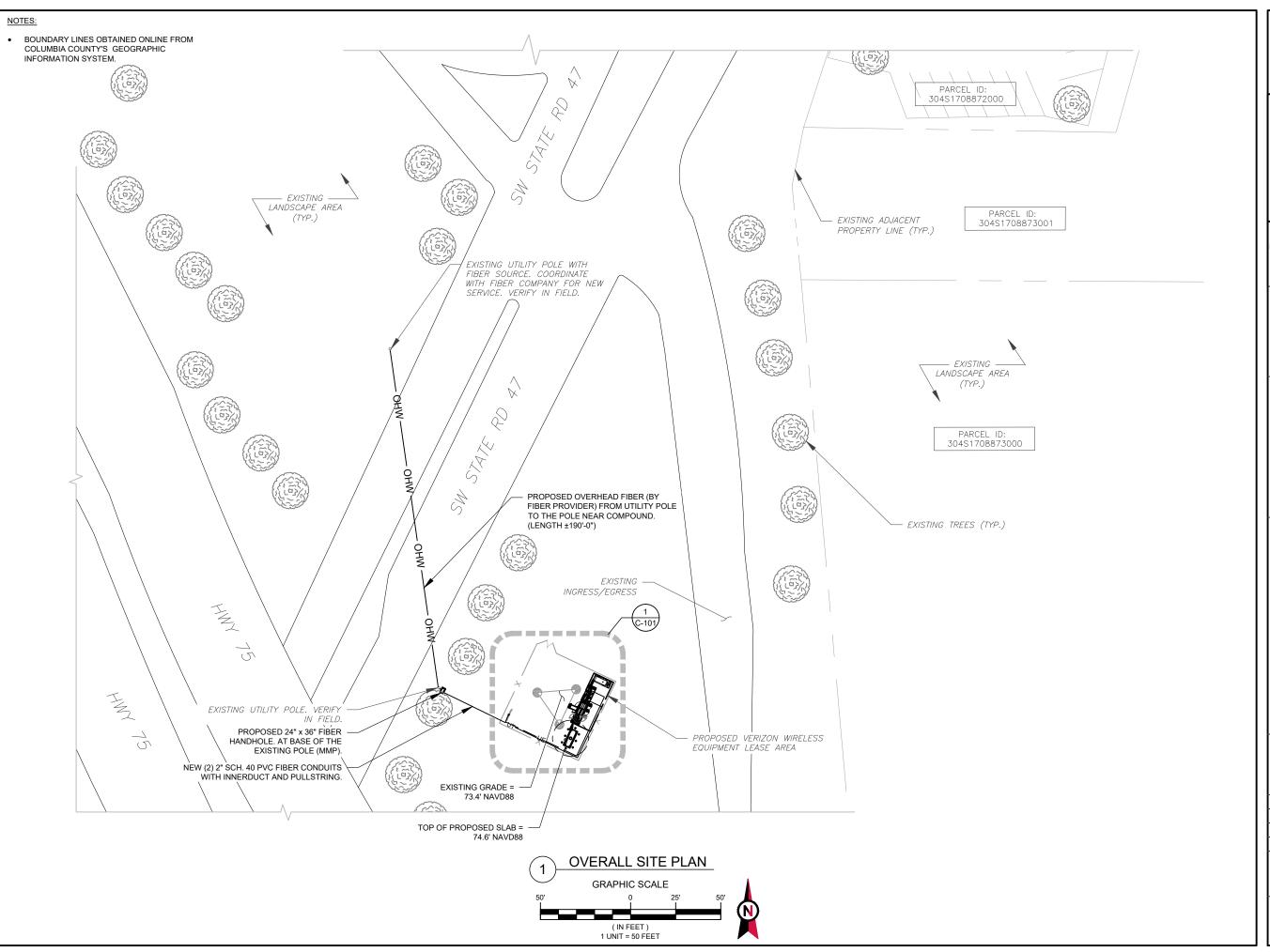


MH PROJ NO: 240013800 14538915 ATC JOB NO: CUSTOMER ID: 175 HWY47 CUSTOMER #: | 5000165925

GENERAL NOTES

SHEET NUMBER:

G-002









2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954.577.4655 www.morrisonhershfield.com

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.

REV.	DESCRIPTION	BY	DATE
A.	PRELIM	RA	12/15/23
B	REVISED AS PER RFDS	RA	02/02/24
<u>^</u>	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\wedge}$	FINAL	JK	04/03/24
$\overline{\Lambda}$	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825

ATC SITE NAME:

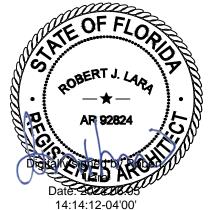
I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024

SEAL:



verizon

MH PROJ NO:	240013800
ATC JOB NO:	14538915
CUSTOMER ID:	175 HWY47
CUSTOMER#:	5000165925

OVERALL SITE PLAN

SHEET NUMBER:

C-001

1

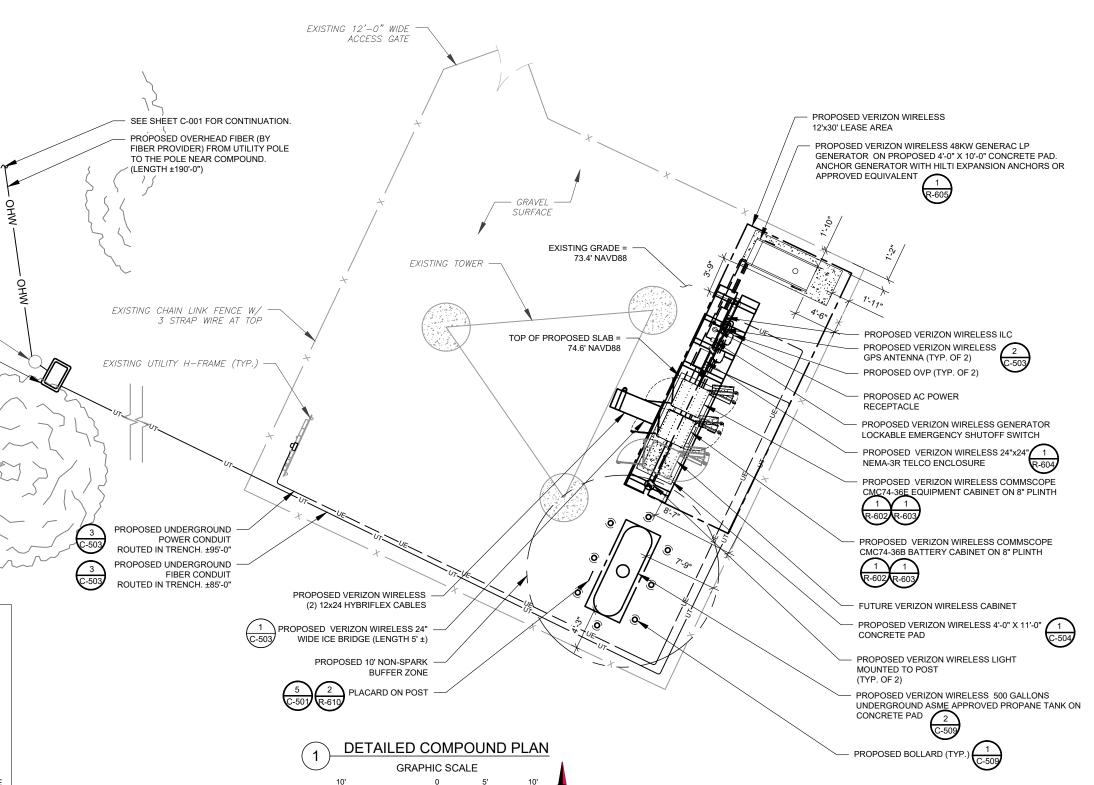
COMPOUND PLAN NOTES:

- THIS COMPOUND PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- 2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE VERIZON REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR 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.

LEGEND **GROUNDING TEST WELL** AUTOMATIC TRANSFER SWITCH ATS **BOLLARD** CELL SITE CABINET CSC DISCONNECT ELECTRICAL FIBER GEN GENERATOR GENERATOR RECEPTACLE HH. V HAND HOLE, VAULT ICE BRIDGE KENTROX BOX LIGHTING CONTROL METER PULL BOX POWER POLE TELCO TRN TRANSFORMER CHAINLINK FENCE

EXISTING UTILITY POLE. VERIFY IN FIELD.

PROPOSED 24" x 36" FIBER HANDHOLE. AT BASE OF THE EXISTING POLE (MMP).



1 UNIT = 10 FEET





2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324

Tel: 954.577.4655

www.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL

DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR

OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF

OCUMENTS IS PROPRIETARY BY NATURE. ANY USE ORD DISCLOSU

OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY

PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL B PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. AL

PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE

LATEST REVISION.

REV	. DESCRIPTION	BY	DATE
A	PRELIM	RA	12/15/23
B	REVISED AS PER RFDS	RA	02/02/24
/c\	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\wedge}$	FINAL	JK	04/03/24
$\overline{\Lambda}$	FINAI	RA	06/04/24

ATC SITE NUMBER: 302825
ATC SITE NAME:

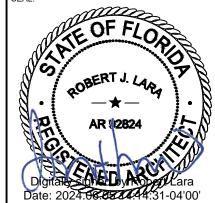
I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024

SEAL:



verizon /

MH PROJ NO:	240013800
ATC JOB NO:	14538915
CUSTOMER ID:	I75 HWY47
CUSTOMER#:	5000165925

DETAILED COMPOUND PLAN

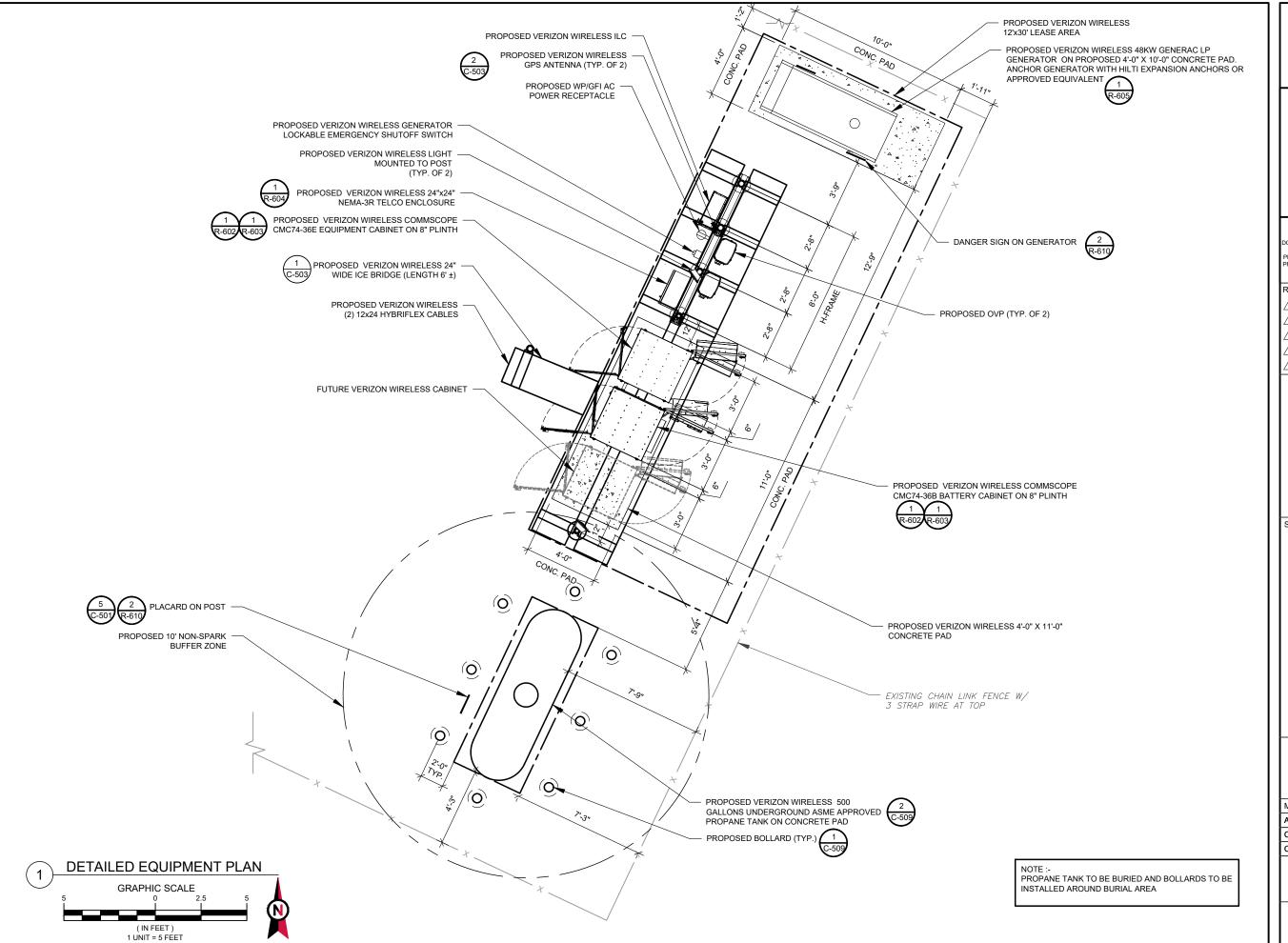
SHEET NUMBER:

REVISION

PROPOSED CABLE NOTES:

- I. ESTIMATED LENGTH OF PROPOSED CABLE IS ±200'.
 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.
- 2. 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)







Stantec
2 S UNIVERSITY DR., UNIT 245

PLANTATION, FL 33324
Tel: 954.577.4655
www.morrisonhershfield.com
E DRAWING CONTRACTOR MUST VERIE

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL

DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR

OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF

DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE

OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY

PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE

PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL

PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE

LATEST REVISION.

REV	. DESCRIPTION	BY	DATE
\triangle	PRELIM	RA	12/15/23
B	REVISED AS PER RFDS	RA	02/02/24
<u>&</u>	REVISED AS PER COMMENTS	RA	02/21/24
\triangle	FINAL	_JK_	04/03/24
Λ	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825
ATC SITE NAME:

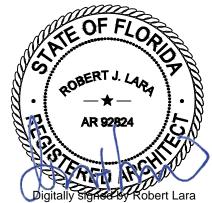
I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024

SEAL:



verizon[/]

Date: 2024.06.05 14:14:45-04'00'

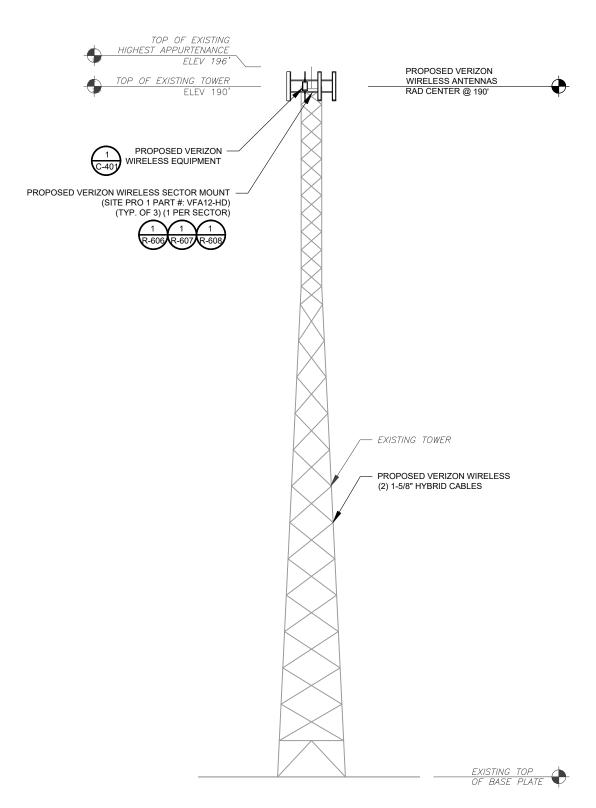
	MH PROJ NO:	240013800
	ATC JOB NO:	14538915
	CUSTOMER ID:	175 HWY47
	CUSTOMER #:	5000165925

DETAILED EQUIPMENT PLAN

SHEET NUMBER:

C-102

A SEPARATE PROJECT. CONSTRUCTION IS NOT TO PROCEED UNTIL THE MOUNT ANALYSIS IS COMPLETE AND INDICATES THE ADDITIONAL LOADING DOES NOT OVERSTRESS THE MOUNT.



- 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.
- 3. 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 ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
- TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

ATC IS ANALYZING THE ANTENNA MOUNT UNDER





2 S UNIVERSITY DR., UNIT 245

PLANTATION, FL 33324 Tel: 954 577 4655 www.morrisonhershfield.con

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOT THE ENGINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST DEVISION. LATEST REVISION.

REV.	DESCRIPTION	BY	DATE
A_	PRELIM	RA	12/15/23
B_	REVISED AS PER RFDS	RA	02/02/24
<u> </u>	REVISED AS PER COMMENTS	RA	02/21/24
\triangle_{-}	FINAL	JK_	04/03/24
\bigwedge	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825

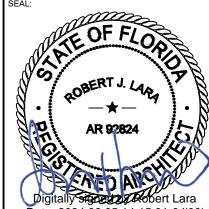
ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024



Date: 2024.06.05 14:15:01-04'00'

MH PROJ NO:	240013800
ATC JOB NO:	14538915
CUSTOMER ID:	I75 HWY47
CUSTOMER #:	5000165925

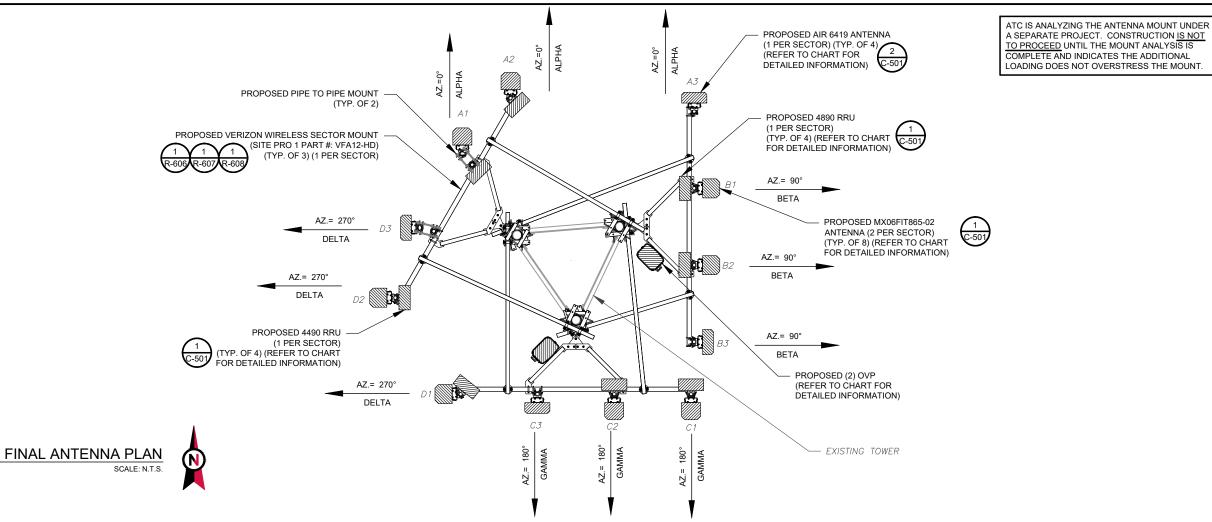
TOWER ELEVATION

SHEET NUMBER:

REVISION:

C-201

TOWER ELEVATION SCALE: N.T.S.



					FINAL EQUIPMENT SCHEDULE														
LOCATION			ANTENNA SUMMARY				NON ANTENNA S	UMMARY											
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	CABLE DESCRIPTION										
			A1	MX06FIT865-02	LTE 700/LTE 850/5G 850/LTE 1900/LTE AWS/LTE AWS3	0°/1°	ADD	(1) 4890 RRU											
ALPHA	190'	0°	A2	MX06FIT865-02	ADD	(1) 4490 RRU													
			A3	AIR 6419 N77G	5G L-SUB6	0°/1°	ADD	-											
	190'		B1	MX06FIT865-02	LTE 700/LTE 850/5G 850/LTE 1900/LTE AWS/LTE AWS3	0°/1°	ADD	(1) 4890 RRU											
ВЕТА		90°	B2	MX06FIT865-02	LTE 700/LTE 850/5G 850/LTE 1900/LTE AWS/LTE AWS3	0°/1°	ADD	(1) 4490 RRU											
			В3	AIR 6419 N77G	5G L-SUB6	0°/1°	ADD	-	(2) 12x24 HYBRIFLEX										
	190'	190'		C1	MX06FIT865-02	LTE 700/LTE 850/5G 850/LTE 1900/LTE AWS/LTE AWS3	0°/1°	ADD	(1) 4890 RRU	CABLES									
GAMMA			190'	190'	190'	190'	190'	190'	190'	190'	190'	180°	C2	MX06FIT865-02	LTE 700/LTE 850/5G 850/LTE 1900/LTE AWS/LTE AWS3	0°/1°	ADD	(1) 4490 RRU	
									C3	AIR 6419 N77G	5G L-SUB6	0°/1°	ADD	-					
	190'	D1 190' 270° D2		D1 MX06FiT865-02 LTE 700/LTE 850/5G 850/LTE 1900/LTE AWS/LTE AWS3 0°/1°	0°/1°	ADD	(1) 4890 RRU												
DELTA			D2	MX06FIT865-02	LTE 700/LTE 850/5G 850/LTE 1900/LTE AWS/LTE AWS3	0°/1°	ADD	(1) 4490 RRU											
			D3	AIR 6419 N77G	5G L-SUB6	0°/1°	ADD	-											

1. CONFIRM WITH CARRIER REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS.

- 2. ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH THE ATC CM.
- 3. SPACING OF PROPOSED EQUIPMENT SHALL BE CONFIRMED FOR TOWER CONFLICTS AND PROPOSED MOUNTS SHALL NOT IMPEDE TOWER CLIMBING PEGS.
- 4. INSTALL [TOWER JUNCTION BOX MODEL AND QUANTITY].

PROPOSED FIBER DISTRIBUTION / OVP BOX			
MODEL NUMBER	STATUS		
(2) OVP12	ADD		

2 ANTENNA SCHEDULE

RF JUMPER LENGTH

MONOPOLE = 15'±
GUYED / SELF SUPPORT = FACE WIDTH + 15'

REFER TO FINAL RFDS FOR TYPE AND QUANTITY

AMERICAN TOWER®



Stantec

PLANTATION, FL 33324
Tel: 954.577.4655
vww.morrisonhershfield.com

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.

REV	. DESCRIPTION	BY	DATE
A	PRELIM	RA	12/15/23
B	REVISED AS PER RFDS	RA	02/02/24
<u>@</u>	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\wedge}$	FINAL	JK	04/03/24
$\overline{\Lambda}$	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825
ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024

SEAL:





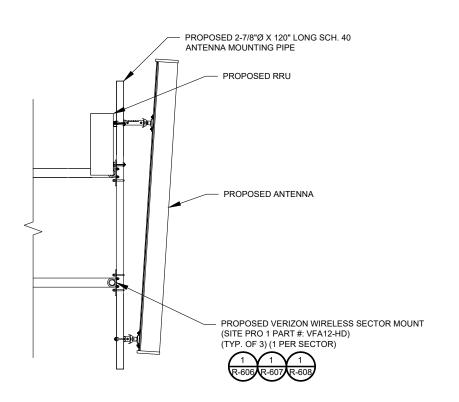
	MH PROJ NO:	240013800
	ATC JOB NO:	14538915
	CUSTOMER ID:	I75 HWY47
	CUSTOMER #:	5000165925

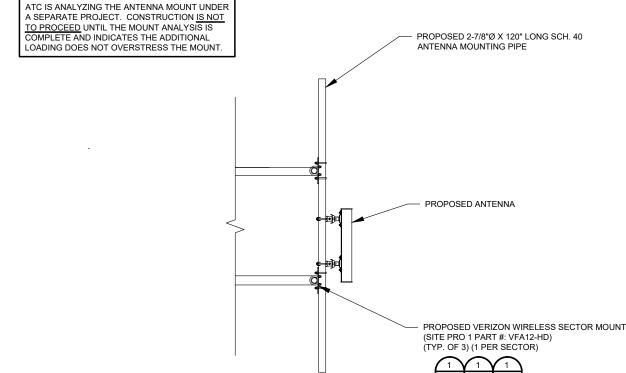
ANTENNA INFORMATION & SCHEDULE

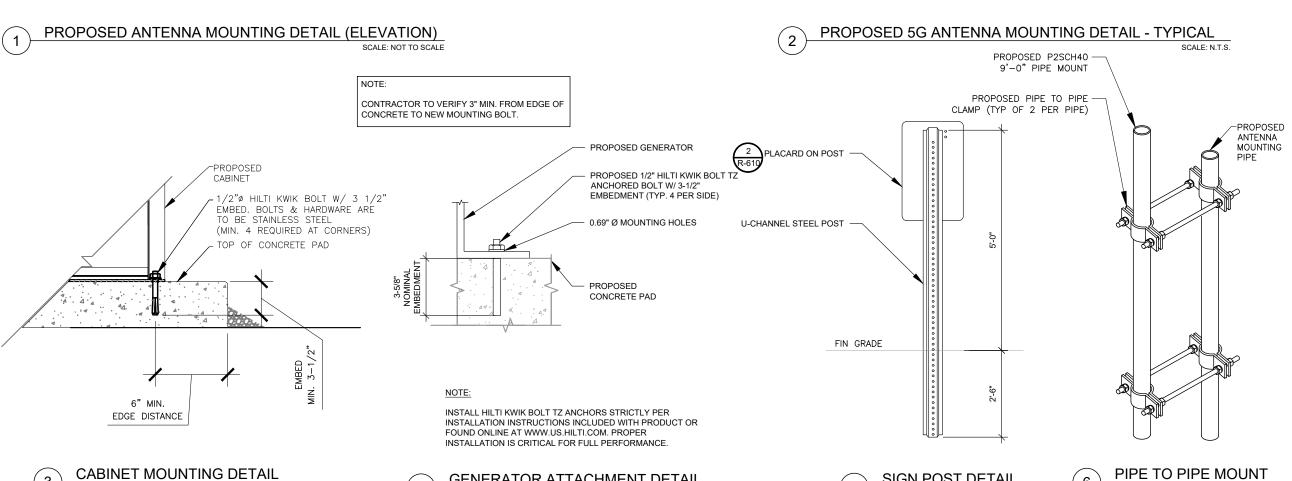
SHEET NUMBER:

C-401

1







SCALE: NOT TO SCALE

GENERATOR ATTACHMENT DETAIL





Stantec

2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954 577 4655

www.morrisonhershfield.con WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOT THE ENGINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST DEVISION.

LATEST REVISION.

	REV	DESCRIPTION	BY	DATE
	A	PRELIM	RA	12/15/23
	B	REVISED AS PER RFDS	RA	02/02/24
	Æ	REVISED AS PER COMMENTS	RA	02/21/24
	\triangle	FINAL	JK_	04/03/24
	Λ	FINAL	RA	06/04/24

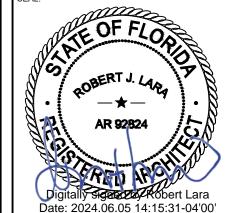
ATC SITE NUMBER: 302825 ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024



verizon

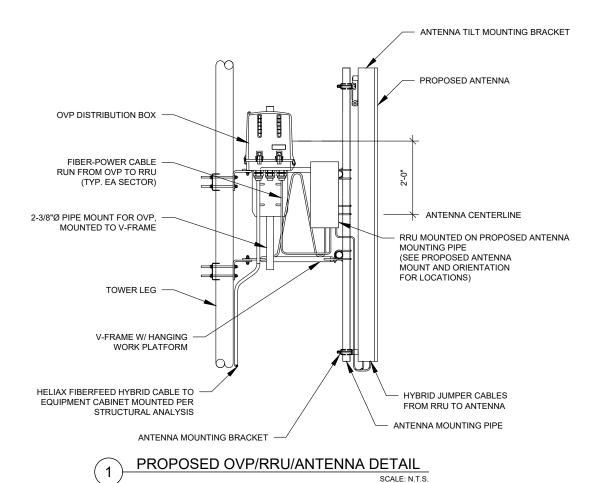
	MH PROJ NO:	240013800
	ATC JOB NO:	14538915
	CUSTOMER ID:	I75 HWY47
	CUSTOMER#:	5000165925

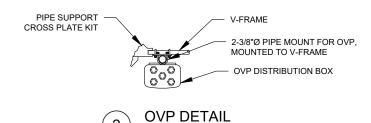
CONSTRUCTION **DETAILS**

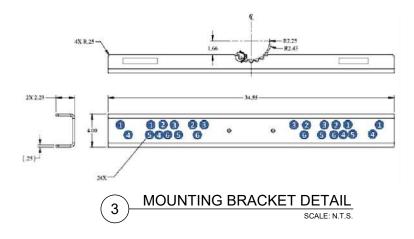
SHEET NUMBER: C-501

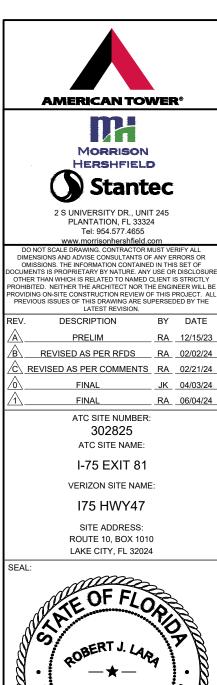
REVISION:

SIGN POST DETAIL









175 HWY47 SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024 AR 92824 Digitally signed by Robert Lara

302825

Stantec

RA 12/15/23

JK 04/03/24 RA 06/04/24

Date: 2024.06.05 14:15:47-04'00'

l	MH PROJ NO:	240013800
l	ATC JOB NO:	14538915
	CUSTOMER ID:	I75 HWY47
	CUSTOMER #:	5000165925

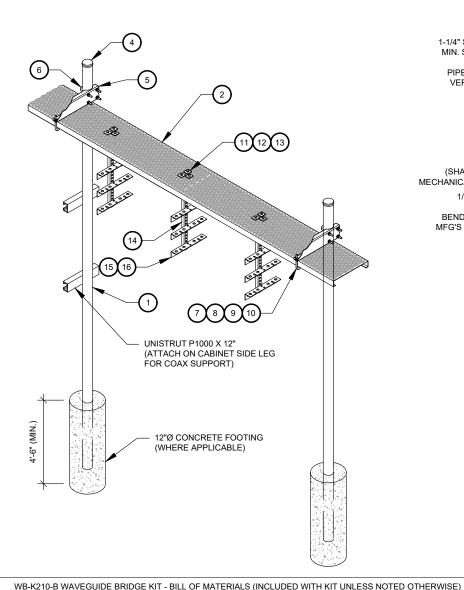
CONSTRUCTION **DETAILS**

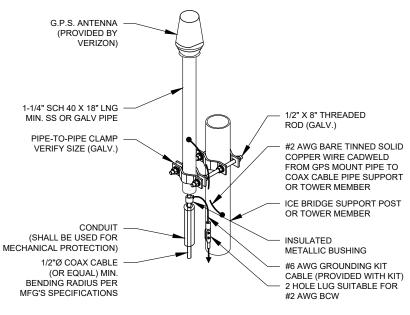
SHEET NUMBER:

C-502

CONSTRUCTION NOTE:

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

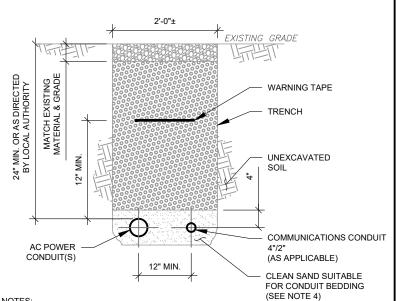




- GPS SHALL BE PLACED WITH CLEAR SIGHT LINE TO THE SOUTHERN SKY.
- CONTRACTOR TO SUPPLY COAX FOR GPS UNIT.

GPS ANTENNA ATTACHMENT DETAIL

SCALE: N.T.S.



TRENCH NOTES:

- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL
- COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING
- IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG
- 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



AMERICAN TOWER®



2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954 577 4655 www.morrisonhershfield.cor

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOR THE REININEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.

	EATEST REVISION.		
REV.	DESCRIPTION	BY	DATE
A	PRELIM	RA	12/15/23
B_	REVISED AS PER RFDS	RA	02/02/24
<u> </u>	REVISED AS PER COMMENTS	RA	02/21/24
<u> </u>	FINAL	_JK_	04/03/24
\triangle	FINAL	RA	06/04/24

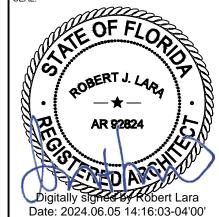
ATC SITE NUMBER: 302825 ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: **ROUTE 10, BOX 1010** LAKE CITY, FL 32024



MH PROJ NO:	240013800
ATC JOB NO:	14538915
CUSTOMER ID:	I75 HWY47
CUSTOMER#:	5000165925

CONSTRUCTION DETAILS

SHEET NUMBER

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

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.

1/2" GALV FLAT WASHER

GWF-04

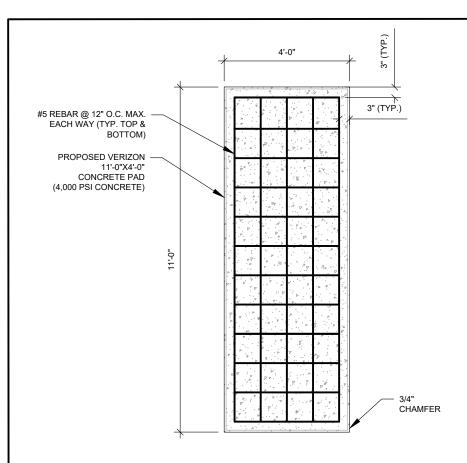
WAVEGUIDE BRIDGE KIT

WBT243.02

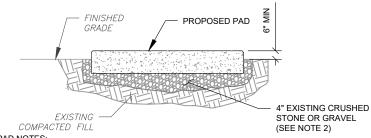
HORIZONTAL TRAPEZE

SECTION

C-503



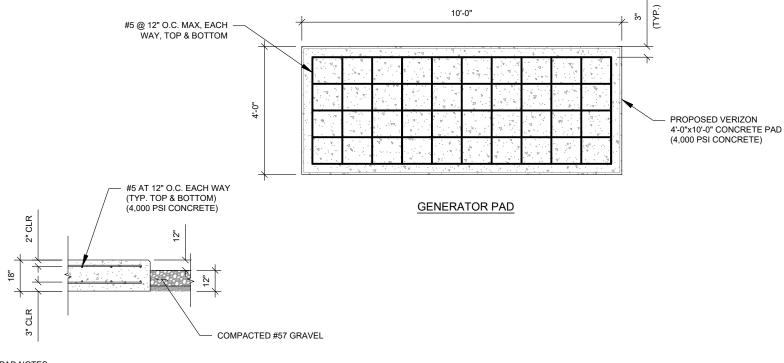
EQUIPMENT PAD



PAD NOTES:

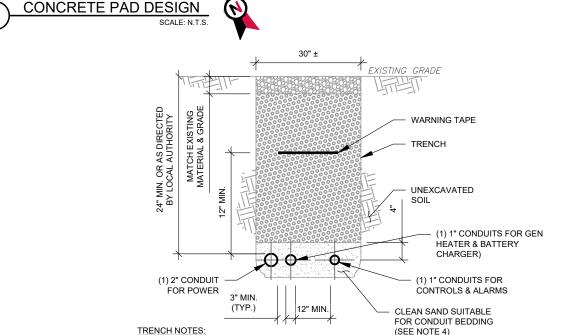
- SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL. DELETRIOUS MATERIAL AND ORGANICS SHALL BE REMOVED.
- 2. MECHANICALLY COMPACT FOOTPRINT OF PAD PLUS 2' PERIMETER.
- USE GALVANIZED HILTI EXPANSION ANCHORS OR, APPROVED EQUAL, FOR EQUIPMENT ANCHORAGE.
- 4. FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT,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





PAD NOTES:

- CONCRETE DESIGN & REINFORCEMENT IN ACCORDANCE WITH
 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
 (A.C.I. 318) AND WITH "DETAILS AND DETAILING OF CONCRETE
 REINFORCEMENT" (A.C.I. 315).
- THIS DESIGN ASSUMES A 1500 PSF ALLOWABLE SOIL BEARING



- 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.
- 3. 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. BELOW CRADE.
- CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS







Stantec

2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954.577.4655 www.morrisonhershfield.com

WWW.Inditisorines similed, com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSECED BY THE

LATEST REVISION.

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RA	12/15/23
B	REVISED AS PER RFDS	RA	02/02/24
<u>c</u>	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\wedge}$	FINAL	JK	04/03/24
$\frac{1}{1}$	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825
ATC SITE NAME:

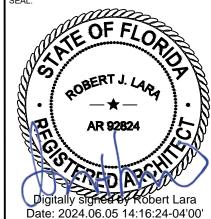
I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024

SEAL:



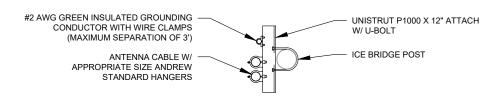


	MH PROJ NO:	240013800
	ATC JOB NO:	14538915
	CUSTOMER ID:	175 HWY47
	CUSTOMER #:	5000165925

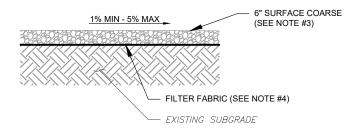
CONSTRUCTION DETAILS

SHEET NUMBER:

C-504



WAVEGUIDE UNISTRUT



NOTES:

- 1. CONTRACTOR TO CONTACT ALL UTILITIES FOR LOCATION OF UNDERGROUND SERVICES. SERVICE LOCATIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
- 2. REMOVE ALL UNSUITABLE OR DELETERIOUS MATERIAL AS REQUIRED. COMPACT UNDERLYING SOIL TO 90% OF MAXIMUM DENSITY. REPLACE REMOVED SOIL WITH 8" LIFTS OF GRANULAR "B" MATERIAL TO A DEPTH OF 4" BELOW PROPOSED GRADE. COMPACT TO MINIMUM 95% OF MAXIMUM DRY DENSITY ALL COMPACTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT IBC. REVIEW WITH PROJECT MANAGER AND GEOTECT PRIOR TO CONSTRUCTION.
- 3. SURFACE COARSE OF GRANULAR "A" MATERIAL SHALL CONSIST OF EVENLY GRADED MIXTURE OF CRUSHED STONE OR GRAVEL, WITH 100% PASSING THROUGH 3/4" SIEVE AND NOT MORE THAN 5% PASSING THROUGH #4 SIEVE.
- 4. PROVIDE GEOTEXTILE FABRIC UNDER WASHED CHIPPED STONE COMPOUND UNLESS NOTED OTHERWISE. WOVEN GEOTEXTILE:US FABRICS: US 230 OR APPROVED EQUIVALENT. CONTRACTOR MAY SUBMIT DESIGN ALTERNATIVE AS OUTLINED IN THE AMERICAN TOWER MASTER SPECIFICATIONS.







2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324

Tel: 954 577 4655 www.morrisonhershfield.com

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOR THE ROINIEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.

REV.	DESCRIPTION	BY	DATE
\triangle	PRELIM	RA	12/15/23
B	REVISED AS PER RFDS	RA	02/02/24
<u>^</u> c\	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\wedge}$	FINAL	JK	04/03/24
$\overline{\wedge}$	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825

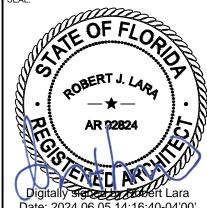
ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024



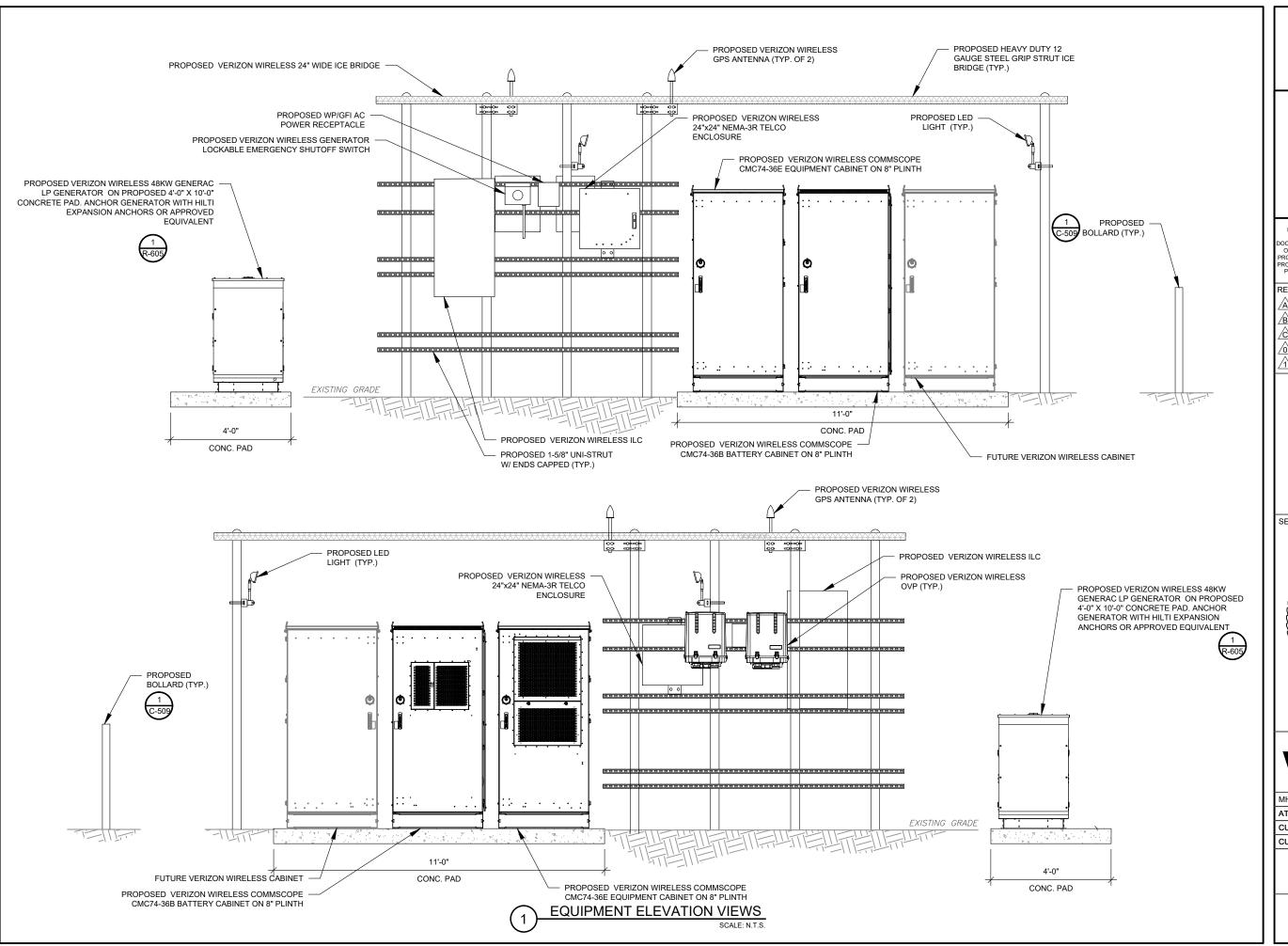
Date: 2024.06.05 14:16:40-04'00'

	MH PROJ NO:	240013800
	ATC JOB NO:	14538915
	CUSTOMER ID:	175 HWY47
	CUSTOMER #:	5000165925

CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-505







Stantec

2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954.577.4655 www.morrisonhershfield.com

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.

REV.	DESCRIPTION	BY	DATE
A.	PRELIM	RA	12/15/23
ß.	REVISED AS PER RFDS	RA_	02/02/24
/c\	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\wedge}$	FINAL	JK	04/03/24
$\overline{\triangle}$	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825
ATC SITE NAME:

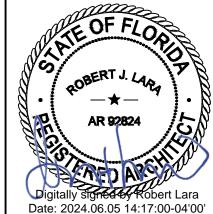
I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024

SEAL:



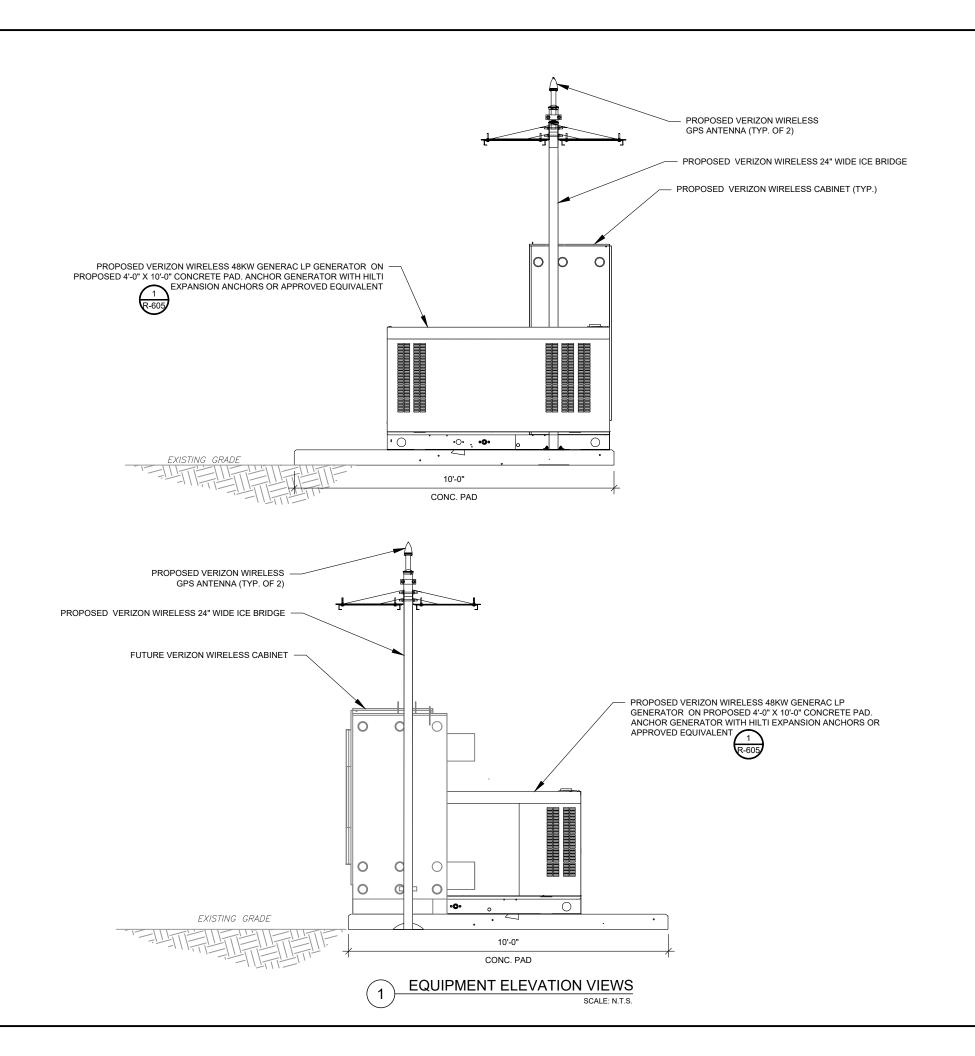
verizon^v

		MH PROJ NO:	240013800
		ATC JOB NO:	14538915
		CUSTOMER ID:	I75 HWY47
		CUSTOMER #:	5000165925

CONSTRUCTION DETAILS

SHEET NUMBER:

C-506









PLANTATION, FL 33324 Tel: 954.577.4655

www.morrisonhershfield.con

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.

ı	REV.	. DESCRIPTION	BY	DATE
l	A	PRELIM	RA	12/15/23
l	B	REVISED AS PER RFDS	RA	02/02/24
l	<u>&</u>	REVISED AS PER COMMENTS	RA	02/21/24
l	\triangle	FINAL	<u>JK</u>	04/03/24
l	Λ	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825

ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME: 175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024



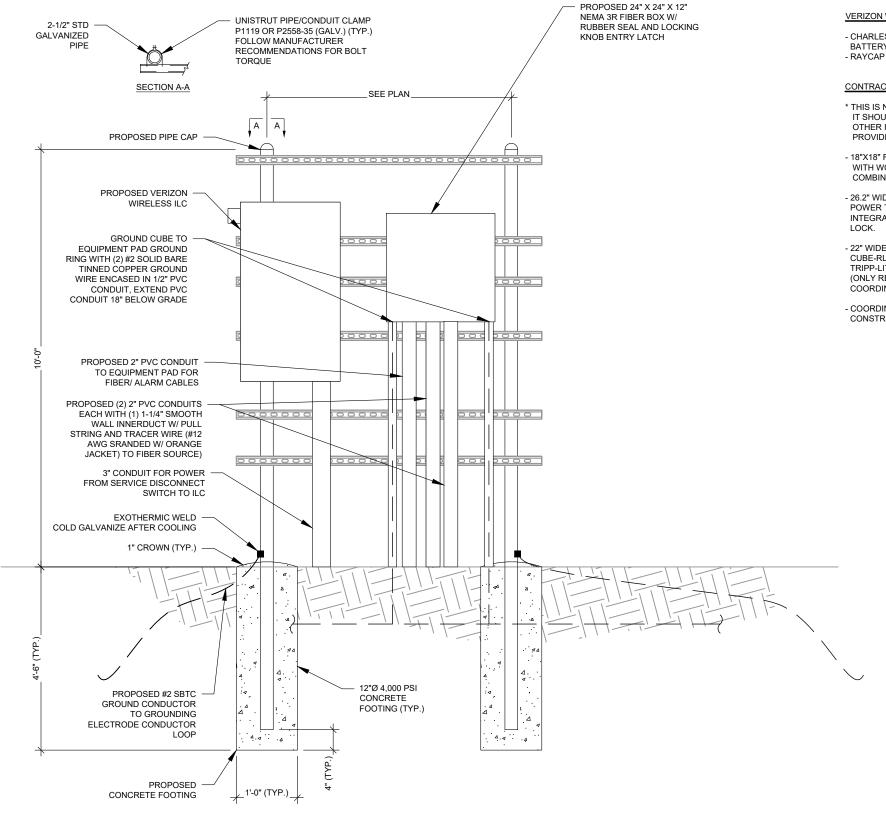
Date: 2024.06.05 14:17:20-04'00'

	MH PROJ NO:	240013800
	ATC JOB NO:	14538915
	CUSTOMER ID:	I75 HWY47
	CUSTOMER #:	5000165925

CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-507



- IF IT IS NECESSARY TO EXTEND THE H-FRAME, AN ADDITIONAL POST WILL ALWAYS BE REQUIRED.
- PROPOSED UNISTRUTS TO BE FIELD CUT AND SHOULD NOT EXTEND MORE THAN 6 INCHES BEYOND THE LAST POST.

 SPRAY ENDS OF UNISTRUT WITH COLD GALVANIZING SPRAY PAINT, ALLOW TO DRY, THEN COVER WITH RUBBER PROTECTIVE
- UNISTRUT TO BE CUT FLUSH WITH NO SHARP OR JAGGED EDGES.
- ALL PROPOSED HARDWARE TO BE MOUNTED AND GROUNDED PER MANUFACTURERS SPECS.
- ALL ITEMS ARE PROPOSED UNLESS OTHERWISE NOTED.



VERIZON WIRELESS PROVIDED EQUIPMENT

- CHARLES INDUSTRIES CUBE-SS4B231PX2 EQUIPMENT WITH BATTERY CHARGER
- RAYCAP OVP-12 (RCMDC-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





2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954 577 4655 www.morrisonhershfield.cor

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOT THE ENGINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST DEVISION. LATEST REVISION.

REV.	DESCRIPTION	BY	DATE
A_	PRELIM	RA	12/15/23
B_	REVISED AS PER RFDS	RA_	02/02/24
∕c_	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\wedge}$	FINAL	JK	04/03/24
$\overline{\Lambda}$	FINAL	RA	06/04/24
	A B	PRELIM B REVISED AS PER RFDS REVISED AS PER COMMENTS FINAL	PRELIM RA B REVISED AS PER RFDS RA REVISED AS PER COMMENTS RA FINAL JK

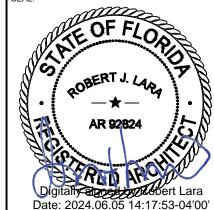
ATC SITE NUMBER: 302825 ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: **ROUTE 10, BOX 1010** LAKE CITY, FL 32024

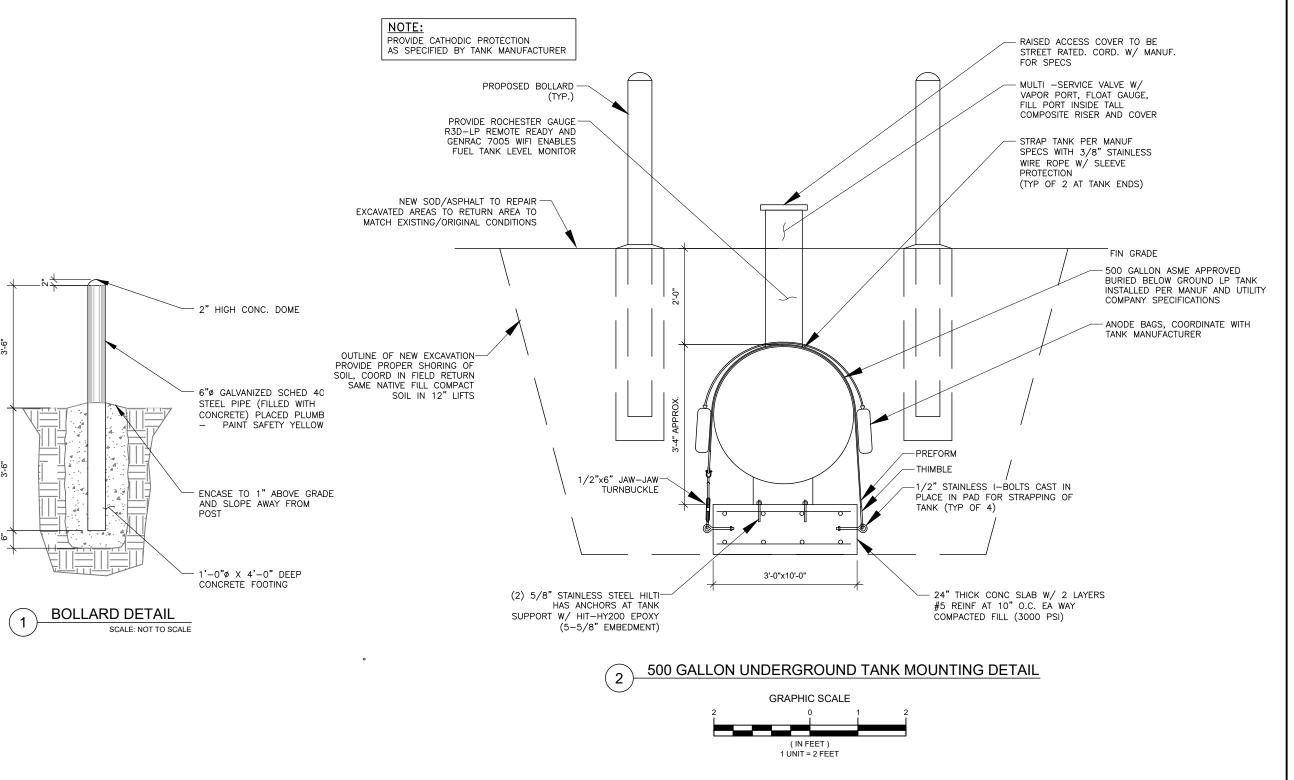


ı	MH PROJ NO:	240013800
	ATC JOB NO:	14538915
	CUSTOMER ID:	I75 HWY47
	CUSTOMER #:	5000165925

CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-508







2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954 577 4655

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NETHER THE ARCHITECT NOR THE ENSINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.

www.morrisonhershfield.con

REV.	DESCRIPTION	BY	DATE
A_	PRELIM	RA	12/15/23
B.	REVISED AS PER RFDS	RA	02/02/24
∕c_	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\Diamond}$	FINAL	JK	04/03/24
$\overline{\Lambda}$	FINAL	RA	06/04/24

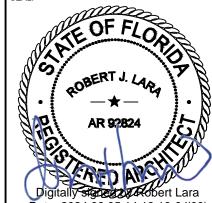
ATC SITE NUMBER: 302825 ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024



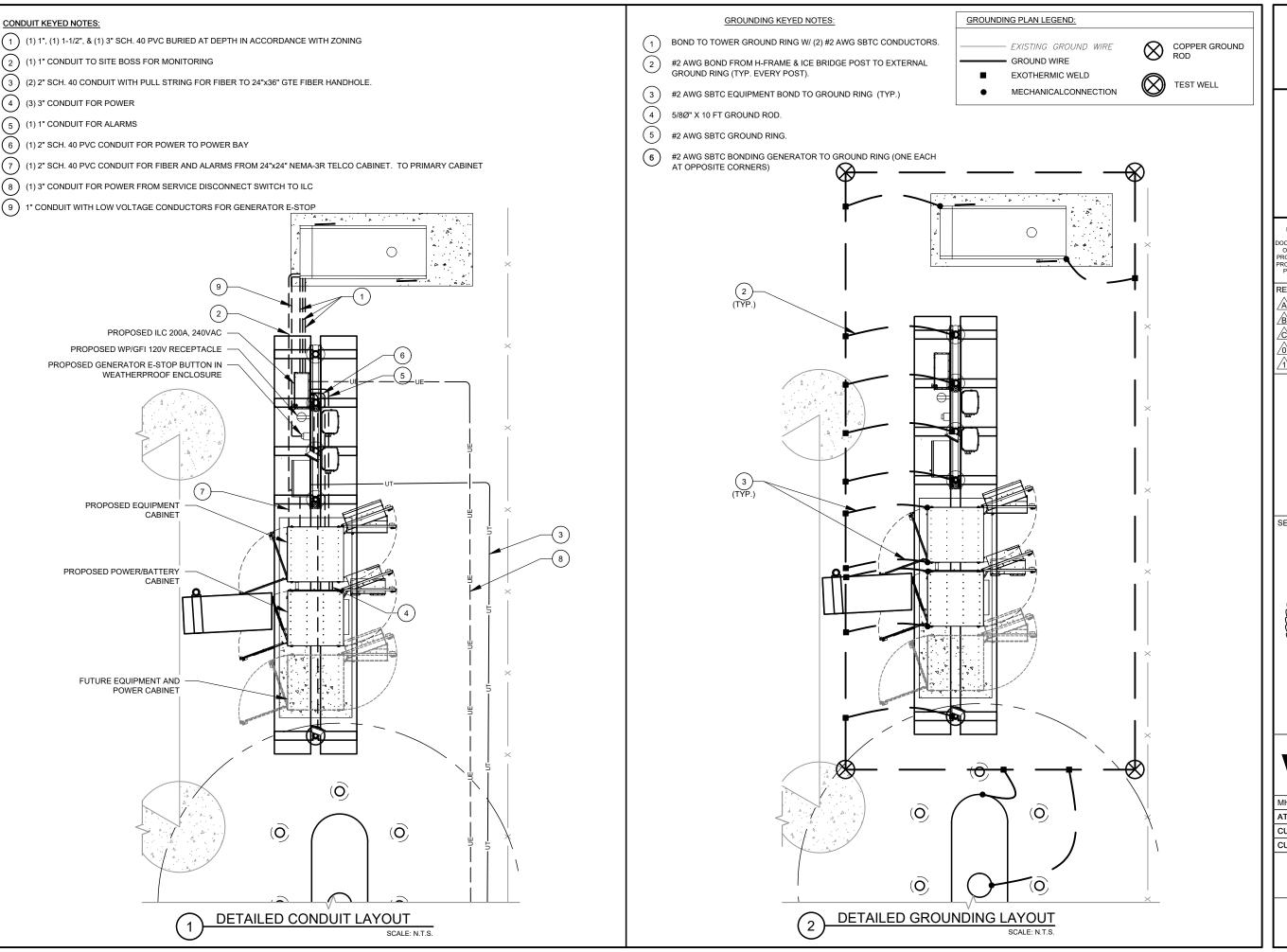
Date: 2024.06.05 14:18:18-04'00'

		MH PROJ NO:	240013800
		ATC JOB NO:	14538915
		CUSTOMER ID:	I75 HWY47
		CUSTOMER #:	5000165925

CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-509









PLANTATION, FL 33324 Tel: 954 577 4655

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION LATEST REVISION.

REV.	DESCRIPTION	BY	DATE
\triangle_{-}	PRELIM	RA	12/15/23
B_	REVISED AS PER RFDS	RA	02/02/24
<u> Ĉ</u>	REVISED AS PER COMMENTS	RA	02/21/24
\triangle_{-}	FINAL	_JK_	04/03/24
<u>/1</u> \	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825

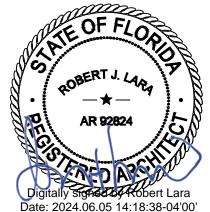
ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME: 175 HWY47

SITE ADDRESS:

ROUTE 10, BOX 1010 LAKE CITY, FL 32024





MH PROJ NO:	240013800
ATC JOB NO:	14538915
CUSTOMER ID:	175 HWY47
CUSTOMER #:	5000165925

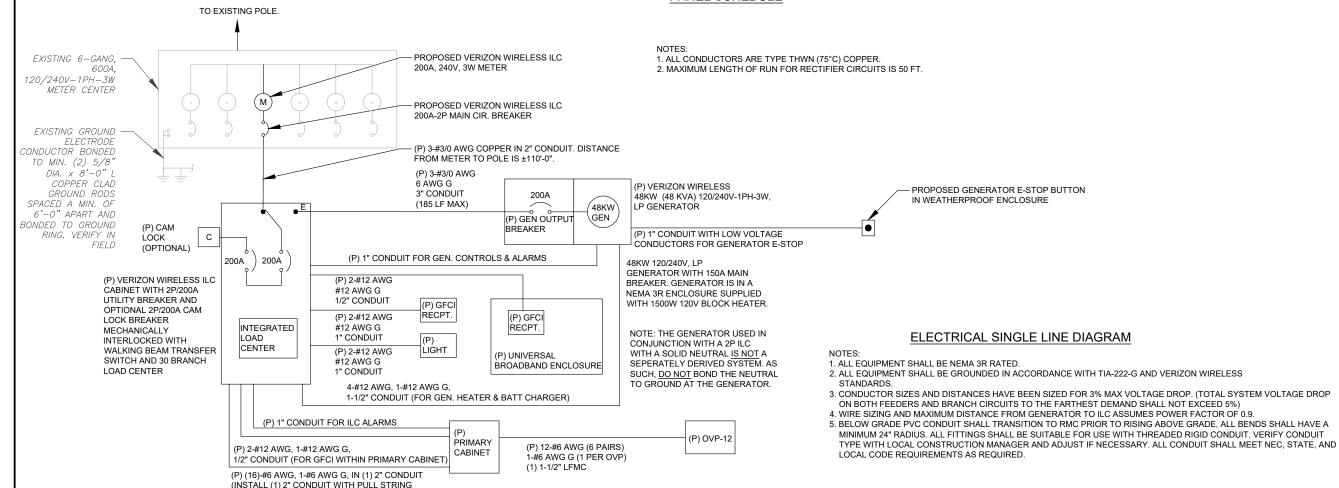
GROUNDING PLAN AND NOTES

SHEET NUMBER:

E-101

NEL	ATION.	vzw	TYPE: MOUNTING.	LIG	HTING & APPLIA SURFACE	NCE	e	SYSTE	M: REAKER (M	٠.	120/240V, 3W, 200A	30 CKT	LOCATION:	VZW LEA:	SE AREA	
SION	Allon.	VEIV	ENCLOSURE:	9	NEMA 3R		0		US RATING:	• <i>)</i> .	200A		PANEL NOTES:	ASCO D30	OL SERIES	
				89			e e	MIN. A.I.	C. RATING		65K					
ONNE	ECTED			FEEDE	R OR BRANCH	CIRCUIT	0		F	EEDE	ER OR BRANCH	CIRCUIT			CONN	IECTED
OAD	(kVA)	BRIEF DESCRIPTION	ON	BRE	AKER	POLE	CIRC.		CIRC P	OLE	BRE	AKER	BRIEF DE	SCRIPTION	LOAD	(kVA)
Α	В			MPS	POLES	NO:	NOTES		19422 - 2012 - 1	NO.	POLES	AMPS			Α	В
50	1.50	3KW RECTIFIER		30	2	3				2	2	30	3KW R	ECTIFIER	1.50	1.50
50	1.50	3KW RECTIFIER		30	2	5 7				6	2	30	3KW R	ECTIFIER	1.50	1.50
50	1.50	3KW RECTIFIER		30	2	9				10 12	2	30	3KW R	ECTIFIER	1.50	1.50
50	1.50	3KW RECTIFIER		30	2	13 15				14 16	2	30	3KW R	ECTIFIER	1.50	1.50
50		LIGHT		20	1	1.7				18			SF	PACE	0.00	0
	0.18	GFCI		20	1	19				20			SF	ACE		0.00
18		GFCI		20	1	21				22			SF	PACE	0.00	100
	1.50	GEN BLOCK HEATI	ER	20	1	23				24			SF	PACE		0.00
20		GEN BATTERY CHAR	GER	20	1	25				26			SF	PACE	0.00	
	0.18	GFCI		20	1	27				28			SF	PACE		0.00
00		SPACE				29				30			SF	PACE	0.00	
9	7.9						Α	В	TOTAL	-					6.0	6.0
							13.9	13.9	27.8	_	CONNECTED L					
							14.0	13.9	27.9		DEMAND LOAD	(kVA)				

PANEL SCHEDULE



FOR FUTURE RECTFIER CIRCUITS) ROUTE

CONDUIT ABOVE GROUND. SECURE TO

EQUIPMENT FRAME.





S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954 577 4655

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL

DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR

OMISSIONS THE INFORMATION CONTAINED IN THIS SET OF

DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE

OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY

PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE

PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL

DEPLOYIE ISSUES OF THIS DRAWING ABE SUIPERSPERED BY THE STRIP STRIP AND ADDRESSED BY THIS DRAWING ABE SUIPERSPERED BY THE STRIP STRIP AND ADDRESSED BY THE STRIP STRIP AND ADDRESSED BY THIS DRAWING ABE SUIPERSPERED BY THE STRIP AND ADDRESSED BY THIS DRAWING ABE SUIPERSPERED BY THE STRIP AND ADDRESSED BY THIS DRAWING ABE SUIPERSPERED BY THE STRIP AND ADDRESSED BY THE STRIP AND ADDRE

PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION.

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RA	12/15/23
B	REVISED AS PER RFDS	RA	02/02/24
<u></u>	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\wedge}$	FINAL	JK	04/03/24
1	FINAL	RA	06/04/24

302825 ATC SITE NAME:

ATC SITE NUMBER:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024

SEAL:



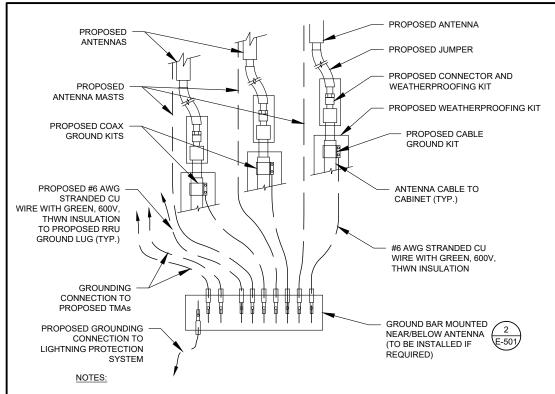
verizon /

l	MH PROJ NO:	240013800
l	ATC JOB NO:	14538915
l	CUSTOMER ID:	I75 HWY47
l	CUSTOMER #:	5000165925

ONE-LINE DIAGRAM AND PANEL SCHEDULE

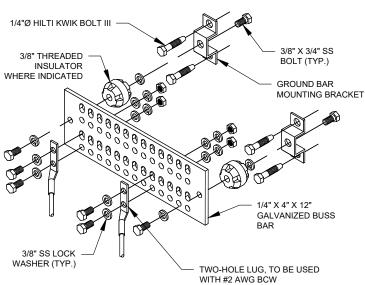
SHEET NUMBER:

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

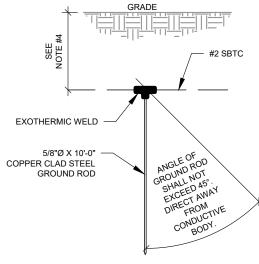




GROUND BAR NOTES

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





NOTES:

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



TIE CONNECTION DETAIL

EXTERIOR GROUND RING #2 SBTC GROUNDING CONDUCTOR

EXOTHERMIC WELD

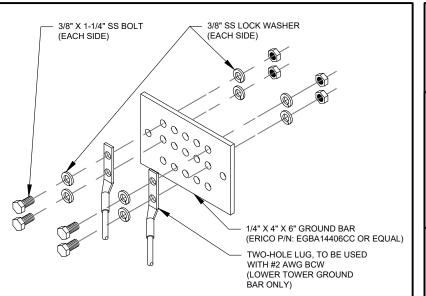
(THERMOWELD OR EQUIVALENT)

PARALLEL, NO T-WELDS ALLOWED COLD GALVANIZE AFTER COOLING (NO SLAG OR DEFORMITIES ALLOWED) GROUND CONDUCTOR TO LIGHTNING JUMPER, #2 SBTC PROTECTION SYSTEM GROUNDING CONDUCTOR

GENERATOR INSTALLATION NOTE:

ACCESSORIES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, ACCESSORIES FOR THE EXHAUST SYSTEM FUEL SYSTEM ENCLOSURE INTEGRITY (CAPS PLUGS COVERS, ETC.), ELECTRICAL CONNECTIONS, AND GROUNDING CONNECTIONS

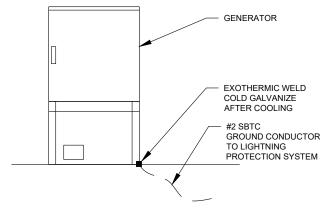




GROUND BAR NOTES:

- 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.







INSTALL GENERATOR AND TRANSFER SWITCH WITH ALL SUPPLIED



2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954 577 4655 www.morrisonhershfield.cor DO NOT SCALE DRAWING CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. THE INFORMATION CONTRIBUED IN THIS SET OF OCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSU. OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY SUBSTRICTLY SET OF THE PROPERTY OF THE

PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL E

PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. AL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE

LATEST REVISION.

AMERICAN TOWER®

MORRISON

HERSHFIELD

Stantec

REV.	DESCRIPTION	BY	DATE
A.	PRELIM	RA	12/15/23
B.	REVISED AS PER RFDS	RA	02/02/24
∕c\	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\wedge}$	FINAL	JK	04/03/24
$\overline{\Lambda}$	FINAL	RA	06/04/24

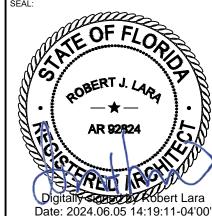
ATC SITE NUMBER: 302825 ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: **ROUTE 10, BOX 1010** LAKE CITY, FL 32024

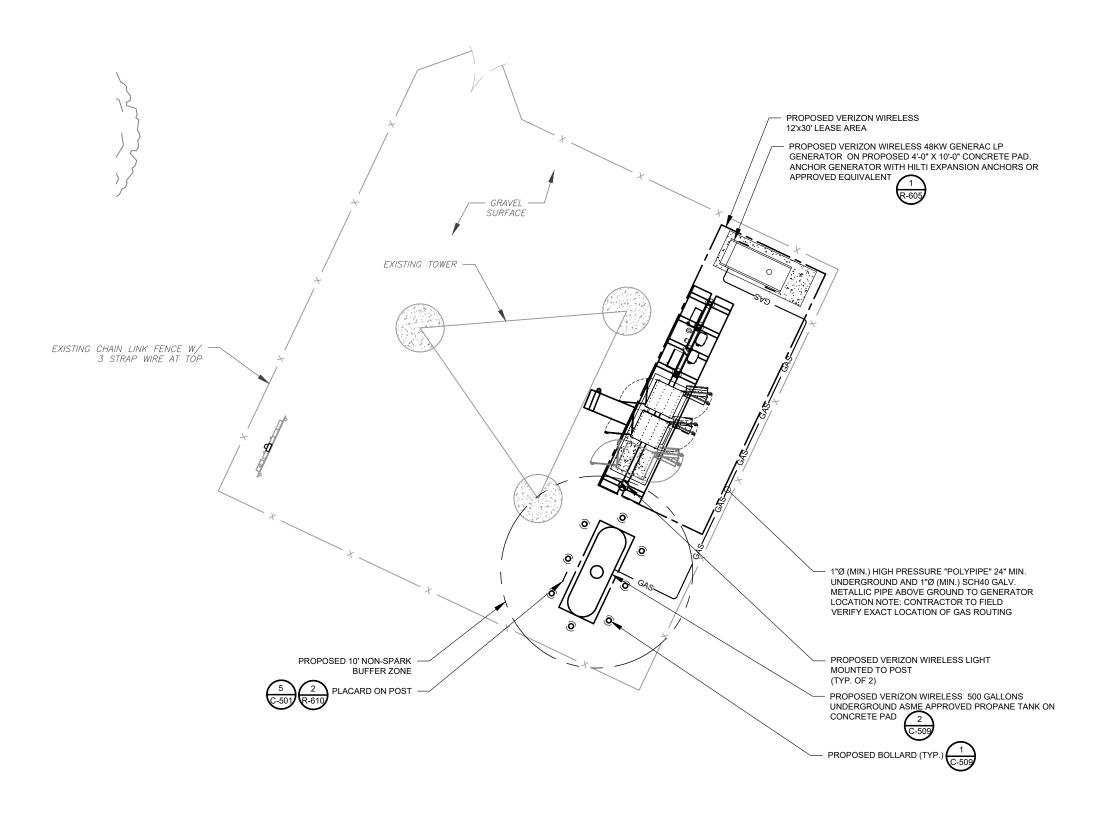


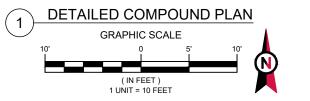
MH PROJ NO:	240013800
ATC JOB NO:	14538915
CUSTOMER ID:	I75 HWY47
CUSTOMER #:	5000165925

GROUNDING DETAILS

SHEET NUMBER

E-501









2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954.577.4655

Tel: 954.577.4655 www.morrisonhershfield.com

WWW.morrisonhershfield.com

DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL
DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR
OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY MATURE. ANY USE OR DISCLOSURE
OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY
PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE
PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL
PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.

REV.	DESCRIPTION	BY	DATE
A_	PRELIM	RA	12/15/23
∕B_	REVISED AS PER RFDS	RA	02/02/24
<u>c</u>	REVISED AS PER COMMENTS	RA	02/21/24
$\overline{\wedge}$	FINAL	JK	04/03/24
1	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825
ATC SITE NAME:

ATO OTTE NAME

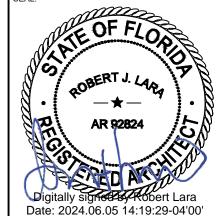
I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS: ROUTE 10, BOX 1010 LAKE CITY, FL 32024

SEAL:



verizon

ı		
ı	MH PROJ NO:	240013800
ı	ATC JOB NO:	14538915
ı	CUSTOMER ID:	I75 HWY47
ı	CUSTOMER #:	5000165925

PLUMBING COMPOUND PLAN

SHEET NUMBER:

P-101

1

NOTES

- 1. THIS INSTALLATION SHALL COMPLY WITH THE INTERNATIONAL FUEL GAS CODE.
- 2. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDUIT LENGTH, ROUTING AND PLAN DIMENSIONS AND SHALL IMMEDIATELY NOTIFY CONSTRUCTION MANAGER AND ENGINEER OF ANY DISCREPANCIES.
- 3. FOR OTHER THAN BLACK STEEL PIPE, EXPOSED GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET. THE MARKING SHALL NOT BE REQUIRED ON PIPE LOCATED IN THE SAME ROOM AS THE EQUIPMENT
- 4. PIPING SHALL BE MARKED WITH AN APPROVED PERMANENT IDENTIFICATION BY THE INSTALLER SO THAT THE PIPING SYSTEM SUPPLIED BY EACH METER IS READILY IDENTIFIABLE.
- 5. THE MAXIMUM DESIGN OPERATING PRESSURE FOR PIPING SYSTEMS LOCATED INSIDE BUILDING SHALL NOT EXCEED 5 POUNDS PER SQUARE INCH GAUGE (PSIG).
- 6. PIPING SHALL BE SCHEDULE 40 METALLIC, SEMI-RIGID COPPER TUBING (TYPE K OR L), CORRUGATED STAINLESS STEEL TUBING (CSST) OR POLYETHYLENE PLASTIC PIPE SUITABLE FOR NATURAL GAS.
- 7. STEEL AND WROUGHT-IRON PIPE SHALL BE AT LEAST OF STANDARD WEIGHT AND SHALL COMPLY WITH ONE OF THE FOLLOWING STANDARDS:
 - A. ASME B 36.10, 10M ASTM A 53 C ASTM A 106
- 8. METALLIC PIPING AND FITTINGS COATED WITH A CORROSION RESISTANT MATERIAL SHALL BE USED.
- 9. STEEL TUBING SHALL COMPLY WITH ASTM A 254 OR ASTM A 539.
- 10. CORRUGATED STAINLESS STEEL TUBING SHALL BE TESTED AND LISTED IN COMPLIANCE WITH THE CONSTRUCTION, INSTALLATION AND PERFORMANCE REQUIREMENTS OF ANSI LC 1/CSA 6.26.
- 11. PLASTIC PIPE, TUBING AND FITTINGS SHALL BE USED OUTSIDE, UNDERGROUND ONLY AND SHALL CONFORM TO ASTM D 2513. PIPE SHALL BE MARKED "GAS" AND "ASTM D 2513".
- 12. PIPE TUBING AND FITTINGS SHALL BE CLEAR AND FREE FROM CUTTING, BURNS AND DEFECTS IN STRUCTURE OR THREADING AND SHALL BE THOROUGHLY BRUSHED, CHIP AND SCALE BLOWN. DEFECTS IN PIPE, TUBING AND FITTINGS SHALL NOT BE REPAIRED. DEFECTIVE PIPE, TUBING AND FITTINGS SHALL BE
- 13. METALLIC PIPE AND FITTINGS THREADS SHALL BE TAPER PIPE THREADS AND SHALL COMPLY WITH ASME
- 14. PIPE JOINTS SHALL BE THREADED, FLANGED, BRAZED OR WELDED. WHERE NONFERROUS PIPE IS BRAZED, THE BRAZING MATERIALS SHALL HAVE A MELTING POINT IN EXCESS OF 1,000°F (538°C). BRAZING ALLOYS SHALL NOT CONTAIN MORE THAN 0.05 PERCENT PHOSPHOROUS.
- 15. METALLIC FITTINGS, INCLUDING VALVES, STRAINERS AND FILTERS, SHALL COMPLY WITH THE FOLLOWING:
- A. FITTINGS USED WITH STEEL OR WROUGHT-IRON PIPE SHALL BE STEEL, BRASS, BRONZE, MALLEABLE IRON OR CAST IRON.
- B. FITTING USED WITH COPPER OR BRASS PIPE SHALL BE COPPER, BRASS OR BRONZE
- 16. PORTIONS OF A PIPING SYSTEM INSTALLED IN CONCEALED LOCATIONS SHALL NOT HAVE UNIONS, TUBING FITTINGS, RIGHT AND LEFT COUPLINGS, BUSHINGS, COMPRESSION COUPLINGS AND SWING JOINTS MADE BY COMBINATIONS OF FITTINGS.
- 17. UNDERGROUND PIPING, WHERE INSTALLED BELOW GRADE THROUGH THE OUTER FOUNDATION OR BASEMENT WALL OF A BUILDING, SHALL BE ENCASED A PROTECTIVE PIPE SLEEVE. THE ANNULAR SPACE BETWEEN THE GAS PIPING AND THE SLEEVE SHALL BE SEALED
- 18. ALL PIPING INSTALLED OUTDOORS SHALL BE ELEVATED NOT LESS THAN 3-1/2" ABOVE GROUND AND WHERE INSTALLED ACROSS ROOF SURFACES, SHALL BE ELEVATED NOT LESS THAN 3-1/2" ABOVE ROOF SURFACE. PIPING INSTALLED ABOVE GROUND, OUTDOORS AND INSTALLED ACROSS THE SURFACE OF ROOFS SHALL BE SECURELY SUPPORTED AND LOCATED WHERE IT WILL BE PROTECTED FROM PHYSICAL DAMAGE. WHERE PASSING THROUGH AN OUTSIDE WALL, THE PIPING SHALL ALSO BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING WITH AN INERT MATERIAL. WHERE PIPING IS ENCASED IN A PROTECTIVE PIPE SLEEVE, THE ANNULAR SPACE BETWEEN THE PIPING AND THE SLEEVE SHALL BE
- 19. UNDERGROUND PIPING SYSTEMS SHALL BE INSTALLED, A MINIMUM DEPTH OF 12 INCHES BELOW GRADE. INDIVIDUAL LINES TO OUTSIDE LIGHTS, GRILLS OR OTHER APPLIANCES SHALL BE INSTALLED A MINIMUM OF 8 INCHES BELOW FINISHED GRADE, PROVIDED THAT SUCH INSTALLATION IS APPROVED AND IS INSTALLED IN A LOCATION NOT SUSCEPTIBLE TO PHYSICAL DAMAGE.
- 20. PIPING SHALL BE SUPPORTED WITH PIPE HOOKS, METAL PIPE STRAPS, BANDS, BRACKETS, OR HANGERS SUITABLE FOR THE SIZE OF PIPING, OF ADEQUATE STRENGTH AND QUALITY AND LOCATE AT INTERVALS SO AS TO PREVENT OR DAMP OUT EXCESSIVE VIBRATION. PIPING SHALL BE ANCHORED TO PREVENT UNDUE STRAINS ON CONNECTED EQUIPMENT AND SHALL NOT BE SUPPORTED BY OTHER PIPING. PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF MSS SP-58 AND SHALL BE SPACED IN ACCORDANCE WITH SECTION 415 OF THE 2004 FUEL GAS CODE. SUPPORTS, HANGERS AND ANCHORS SHALL BE INSTALLED SO AS NOT TO INTERFERE WITH THE FREE EXPANSION AND CONTRACTION OF THE PIPING BETWEEN ANCHORS. ALL PARTS OF THE SUPPORTING EQUIPMENT SHALL BE DESIGNED AND INSTALLED SO THEY WILL NOT BE DISENGAGED BY MOVEMENT OF THE SUPPORTED PIPING.

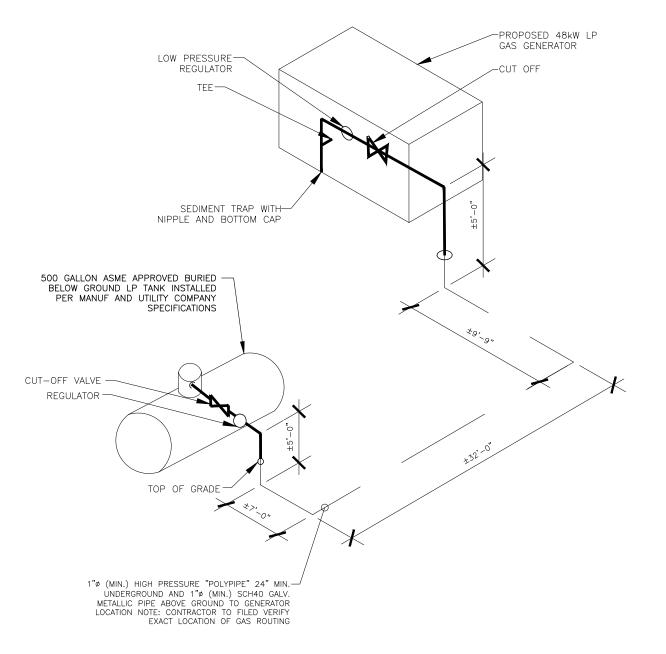
DESIGN PARAMETERS	
HIGH P. REG SETTING	2.0 PSI
HIGH P. DESIGN DROP	1.0 PSI
HIGH P. RUN LENGTH	±55'-0"
PIPE SIZE (TABLE 402.4(27), 402.4(36))	3/4"ø
PIPE LOW P. REG SETTING	10 WC
_OW P. DESIGN DROP	0.5 WC
LOW P. RUN LENGTH	5' ±*
OW P. PIPE SIZE (TAB 402.4(28), 402.4(35))	3/4"ø
EQUIPMENT INLET PRESSURE	10 WC
EQUIPMENT OPERATION PRESSURE	7-11 WC
DESIGN CONSUMPTION RATE @ 100% LOAD	258 FT³ / HR

* = EQUIVALENT LENGTH

** = MAXIMUM LENGTH FOR THIS SIZE PIPE. EXACT DISTANCE TO BE DETERMINED IN FIELD AND SHALL NOT EXCEED DISTANCE SHOWN.

NOTE:

EXACT ROUTE OF GAS PIPE AND NUMBER OF BENDS TO BE DETERMINED IN FIELD



AMERICAN TOWER



PLANTATION, FL 33324 Tel: 954 577 4655

DO NOT SCALE DRAWING CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSU. OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY DESCRIPTION. PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL E PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. AL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION.

www.morrisonhershfield.coi

REV.	. DESCRIPTION	BY	DATE
A.	PRELIM	RA	12/15/23
B	REVISED AS PER RFDS	RA	02/02/24
<u></u>	REVISED AS PER COMMENTS	RA	02/21/24
\triangle	FINAL	JK_	04/03/24
\triangle	FINAL	RA	06/04/24

ATC SITE NUMBER: 302825

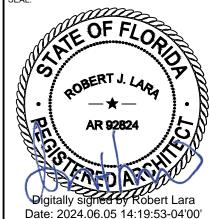
ATC SITE NAME:

I-75 EXIT 81

VERIZON SITE NAME:

175 HWY47

SITE ADDRESS **ROUTE 10, BOX 1010** LAKE CITY, FL 32024

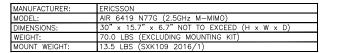


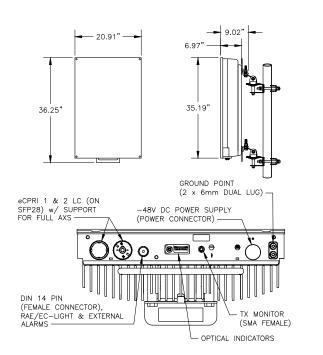
MH PROJ NO:	240013800
ATC JOB NO:	14538915
CUSTOMER ID:	I75 HWY47
CUSTOMER #:	5000165925

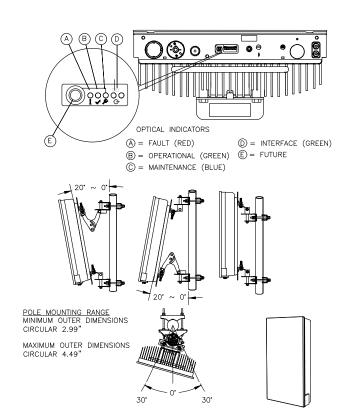
GAS PIPING ISOMETRIC

SHEET NUMBER

P-501

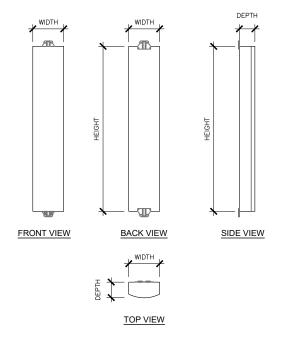








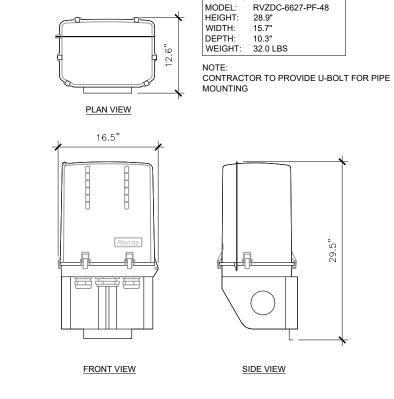
SCALE: N.T.S.





SIZE AND WEIGHT TABLE

HEIGHT	WIDTH	DEPTH	WEIGHT
95.9"	11.9"	10.7"	50.0 LBS



MANUFACTURER: RAYCAP

OVP SPECIFICATIONS 3 SCALE: N.T.S.

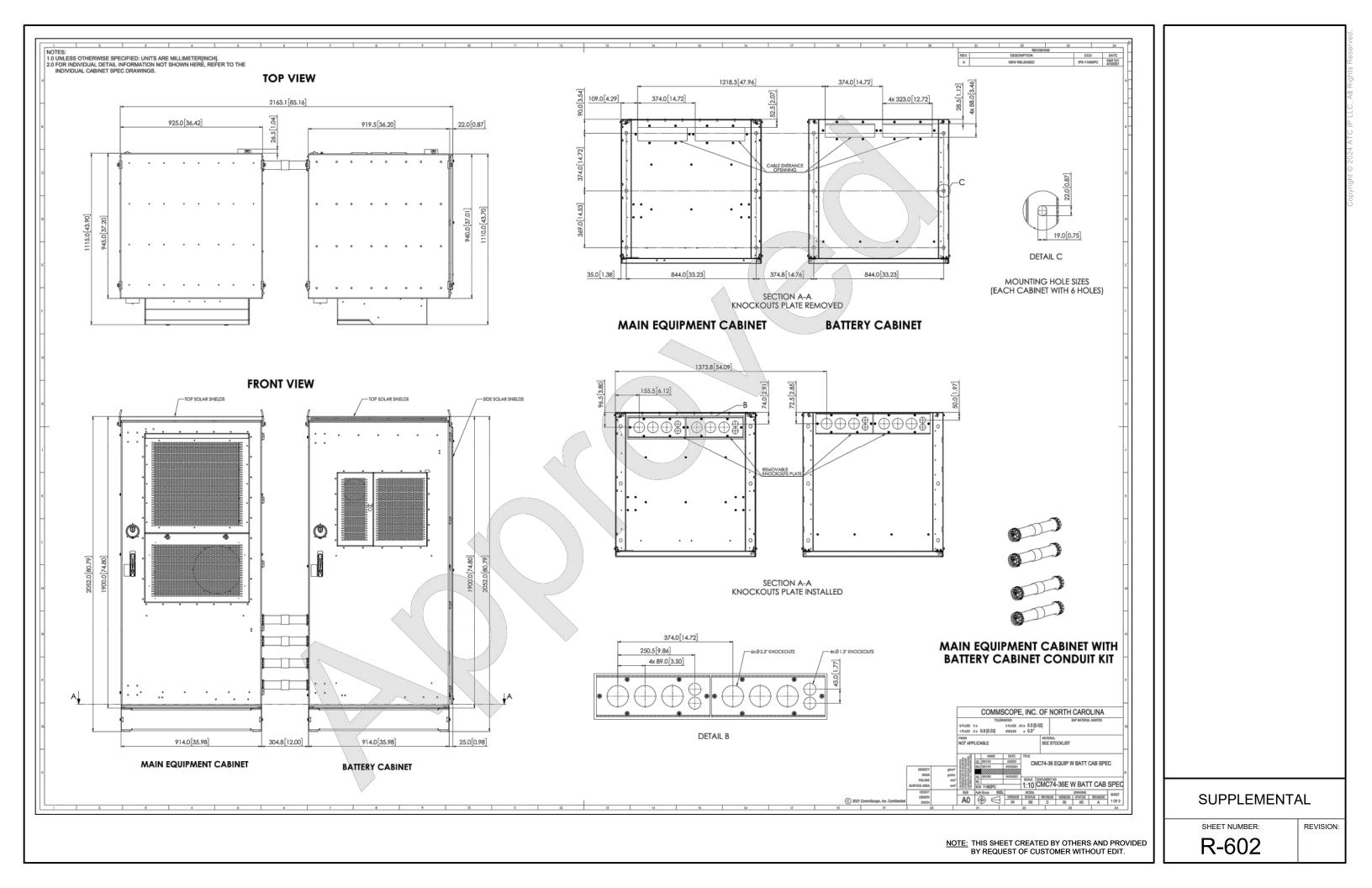
SUPPLEMENTAL

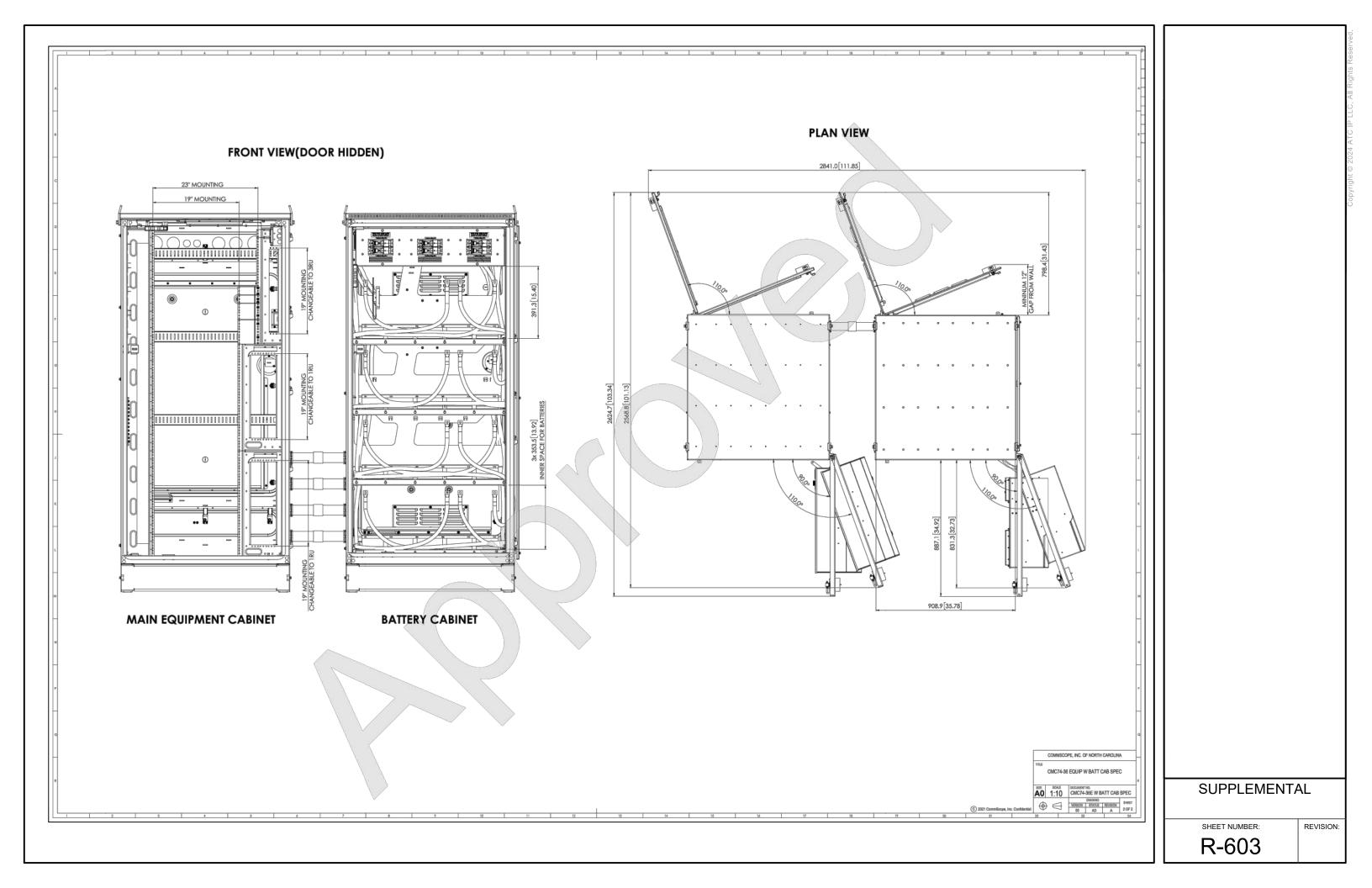
SHEET NUMBER:

R-601

REVISION:

ANTENNA SPECIFICATIONS SCALE: N.T.S.





Page 2 of 9

2. PRODUCT DESCRIPTION

All CUBEs in the series consist of a single compartment that is equipped with a 21"x21" backplane for mounting equipment. See Table 2 for the features specific to each model. For models with an aluminum mesh backplane, the backplane is perforated with 60,140" holes that fit #8 self-tapping screws (customer supplied).

Figure 2 shows the CUBE dimensions. Figure 3 shows the rear view of a CUBE that is typical for all models in this family. Figures 4 through 10 show the main components of the CUBEs by model.

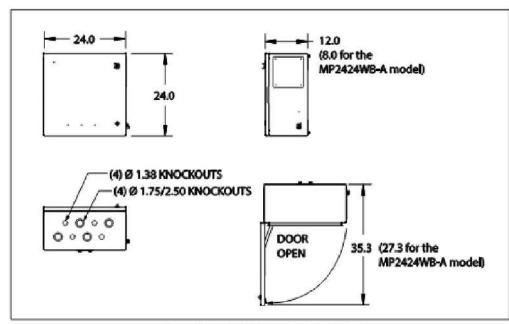


Figure 2 CUBE Dimensions (in inches)
MP2424WB-A and MP2424WV-A have different cable entry configurations; see Section 3.7.5.

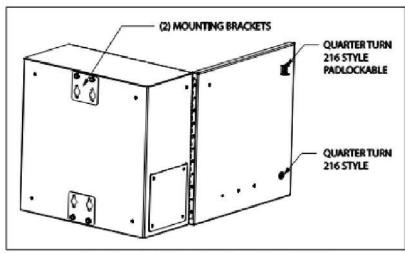


Figure 3 CUBE Rear View (Typical for all Models)

7. SPECIFICATIONS

7.1. Regulatory Specifications

- GR-487 Certified
- UL-60950 Recognized
- GFCI: UL-943 Listed

7.2. Product Specifications

Physical		
Dimensions	24"Hx24"Wx12"D MP2424WB-A: 24"Hx24"Wx8"D	
Materials	.125 welded aluminum	
Color	Off-White	
Electrical		
Bonding and Grounding	(1) 2x6 position ground bar	
Cable Entry	See Section 3.7.5	
Thermal		
100CFM DAC Fans (MP2424MF-A only)	NMB Technologies NMB4715MS-12T-BS0-A00	
Environmental		
Operating Temp. Range, Outside Enclosure	-40° to +115°F, -40° to 46°C	
Operating Temp Range, Inside Enclosure	-40° to +149°F, -40° to 65°C	
Humidity	0 to 95% (non-condensing)	
Altitude	Up to 2,000 meters (6560 feet)	
Kits and Replacement Parts	Control Contro	
Touch-up Paint	02-000290-0	
216 Type Security Tool	07-002070-0	
1/4 Turn Latch	39-000142-0	
1/4 Turn Latch with Padlock Hasp	39-000311-0	
20A GFCI outlet (MP2424WV-A only)	04-100186-0	
Fan Thermostat (MP2424MF-A only)	99-004234-0	
Replacement Fan (MP2424MF-A only)	18-950446-0	
Replacement Splice Box (MP2424GVMP only)	80-004021-A	

Table 1 CUBE Specifications

Model	Description	Approx. Weight as Shipped (lbs)
CUBE-MP242412-A	Aluminum mesh backplane	42
CUBE-MP2424GSWX	Plywood backplane	37
CUBE-MP2424GVMP	Aluminum mesh backplane, louvered side vents, fiber splice tray on back wall	53
CUBE-MP2424GVWX	Plywood backplane, louvered side vents	42
CUBE-MP2424MA-A	NEMA 4, aluminum mesh backplane	42
CUBE-MP2424MF-A	Aluminum mesh backplane, vented fan on door	55
CUBE-MP2424WB-A	NEMA 4, plywood backplane	11
CUBE-MP2424WV-A	NEMA 3R, plywood backplane with 2 ventilated shelves, GFCI	50

Table 2 CUBE Descriptions by Model

Page 9 of 9

SUPPLEMENTAL

SHEET NUMBER:

R-604

REVISION:

PROPOSED CHARLES CUBE
SCALE: NOT TO SCALE

a

Protector®

Series



PROTECTOR® SERIES Standby Generators

Liquid-Cooled Gaseous Engine

INCLUDES:

- Two-Line LCD Multilingual Digital Evolution** Controller (English/Spanish/French/Portuguese) With External Viewing Window for Easy Indication of Generator Status and Breaker
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Field Convertible Fuel Type With No Mechanical Adjustment Required.
- 5 Year Limited Warranty
- UL 2200 Listed
- · Listed and labeled by the Southwest Research Institute allowing installation as close as 18 in (457 mm) to a structure*

"Must be located away from doors, windows, and fresh air intakes and in accordance with local codes. https://assets.swri.org/fibrary/Directory/0fListecProducts/ Construction/industry/973_DoC_204_13204-01-01_Rev9.pdf

Standby Power Rating

Model RG048 (Aluminum - Bisque) - 48 kW 60 Hz Model RG060 (Aluminum - Bisque) - 60 kW 60 Hz Model RG080 (Aluminum - Bisque) - 80 kW 60Hz





Meets EPA Emission Regulations CA / MA Emission Compliant

FEATURES

- GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- O TEST CRITERIA:
 - ✓ NEMA MG1-22 EVALUATION ✓ PROTOTYPE TESTED ✓ SYSTEM TORSIONAL TESTED
 ✓ MOTOR STARTING ABILITY
- O MOBILE LINK® CONNECTIVITY: Free with select Protector Series O GENERAC TRANSFER SWITCHES. Long life and reliability are standby generator sets, Mobile Link Wi-Fi allows users to monitor the generator set status from anywhere in the world using a smartphone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account to an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage.
- O INNOVATIVE DESIGN & PROTOTYPE TESTING are key components of O SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION. This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge leads to the engine. Digital voltage regulation at $\pm 1\%$.
 - O SINGLE SOURCE SERVICE RESPONSE from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
 - synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is the GENERAC product line is offered with its own transfer systems and controls for total system compatibility.





GENERAC

operating data

GENERATOR OUTPUT VOLTAGE/kW - 60 Hz

48 / 60 / 80 kW

		KW LPG	Amp LPG	kW Nat. Gas	Amp Nat. Gas	CB Size (Both)
	120/240 V, 10, 1.0 pf	48	200	48	200	200
RG048	120/208 V, 3Ø, 0.8 pf	48	167	48	167	175
PODPO	120/240 V, 3Ø, 0.8 pf	48	144	48	144	150
	277/480 V, 3Ø, 0.8 pf	48	72	48	72	-80
nonen	120/240 V, 10, 1.0 pf	60	250	60	250	300
	120/208 V, 3Ø, 0.8 pf	60	208	60	208	200
RG050	120/240 V, 38, 0.8 pf	60	180	60	180	200
	277/480 V, 3Ø, 0.8 pf	60	90	90	90	100
	120/240 V, 1Ø, 1.0 pf	75	312	80	333	400
RG080	120/208 V, 3Ø, 0.8 pf	75	260	80	278	300
MOUOU	120/240 V, 3Ø, 0.8 pf	75	226	80	241	300
	277/480 V, 3Ø, 0.8 pf	75	113	80	120	150

SURGE CAPACITY IN AMPS

		Voltage Dip @ < .4 p	
		15%	30%
	120 / 240 V, 1Ø	100	300
00040	120 / 208 V, 38	118	242
RG048 -	120 / 240 V, 38	144	260
	277 / 480 V. 38	64	123
	120 / 240 V, 1Ø	150	413
RG060	120 / 208 V, 38	135	313
	120 / 240 V, 38	117	289
	277 / 480 V. 38	54	122
	120 / 240 V, 10	283	600
RG088	120 / 208 V, 38	236	500
	120 / 240 V, 38	204	432
	277 / 480 V, 38	102	192

ENGINE FUEL CONSUMPTION

		Matural Gas		Propane		
		(ft9/hr)	(m^3/hr)	(gal / hr)	(\hbar^3/\ln)	(1/hr)
	Exercise cycle	101	2.86	0.67	24.5	2.54
00040	25% of rated load	201	5.7	2.88	104.7	10.9
PG048	50% of rated load	336	9.5	4.16	151.3	15.7
	75% of rated load	447	12.7	5.28	192	20
	100% of rated load	604	17.1	6.61	240.4	25
	Exercise cycle	103	2.9	0.9	33.2	3.5
	25% of rated load	257	7.3	2.1	78	8.1
PG060	50% of rated load	432	12.2	4.4	161.2	16.8
	75% of rated load	618	17.5	5.8	247.2	25.7
	100% of rated load	808	22.9	8.4	305.6	31.8
	Exercise cycle	103	2.9	0.9	33.2	3.5
	25% of rated load	292	8.3	2.6	93.6	9.7
PG080	50% of rated load	534	15.1	5.7	208.8	21.7
	75% of rated load	799	22.6	8.3	303.2	31.5
	100% of rated load	1,063	30.1	10.8	393.2	40.9

Note: Fuel pipe must be sized for full load.

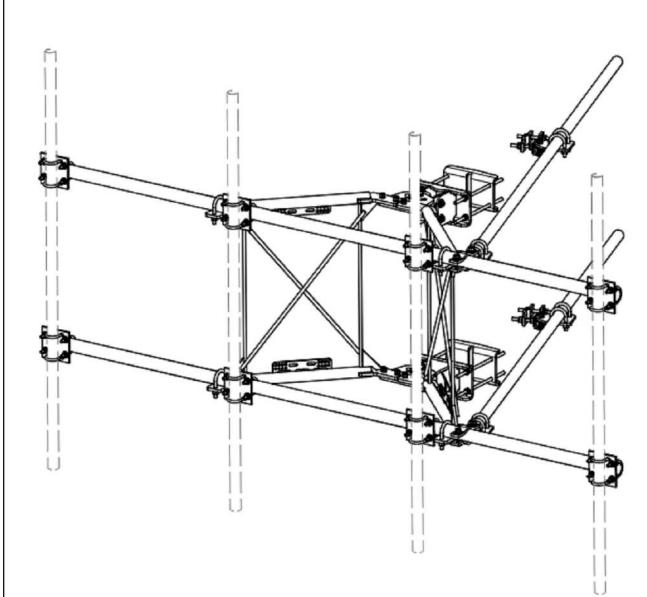
For Stu content, multiply $t^{\pm}/hr \times 2,520$ (LP) or $t^{\pm}/hr \times 1,000$ (NG). For megajoule content, multiply m⁵ / hr x 93.15 (LP) or m⁵ / hr x 37.26 (NG). Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

SUPPLEMENTAL

SHEET NUMBER:

R-605



ITEM	QTY	PART NO.	PARTS LIST PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM	CENOTH	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	19.00	38.01
6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD	10	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	0.112.111	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" ONTER 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		0.21	0.85
19	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)	18 in	0.40	3.19
20	4	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	4.18
21	4	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	2.79
22	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		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		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" X 3" X 1-1/4" 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		0.07	4.58
					TOTAL WT. #	738.06

CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017	Ľ
CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017	1
UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017	1
UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	6/29/2018	1
	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION CHANGED TIE-BACK BACK CONNECTION	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION CHANGED TIE-BACK BACK CONNECTION	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION CEK CHANGED TIE-BACK BACK CONNECTION CEK	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION CEK 12/7/2017 CHANGED TIE-BACK BACK CONNECTION CEK 7/31/2017

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")

PROPRIETARY MOTE: THE BATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALIDOR	
INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OF DISCLOSURE WITHOUT THE CONSENT OF VALVOUT BIDLISTRIES IS STRICTLY PROHEMITSD.	_

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

PD NO.		ORAWN BY CEK 1/25/2017	ENG. APPROVAL	
ASS B1	02		CHECKED BY BMC 12/13/2017	D

A valment W counse

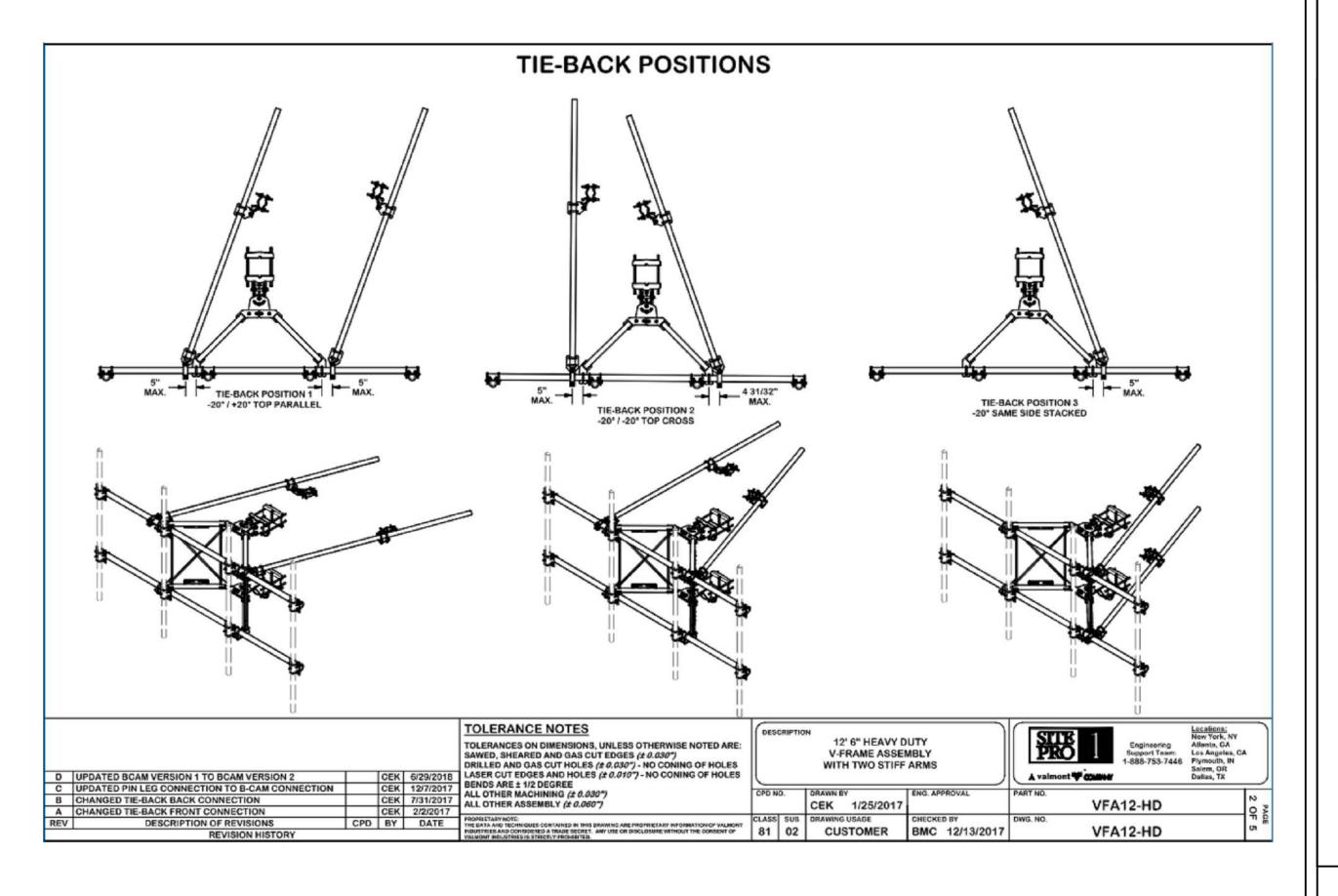
Engineering Support Team: Locations: Now York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX

VFA12-HD VFA12-HD

SUPPLEMENTAL

SHEET NUMBER:

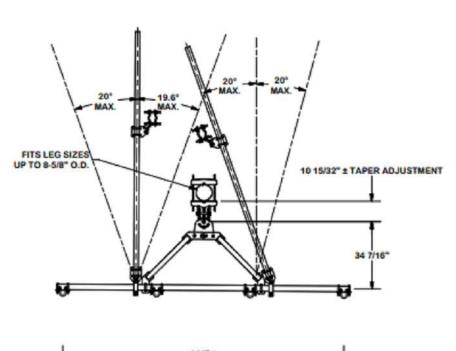
REVISION:

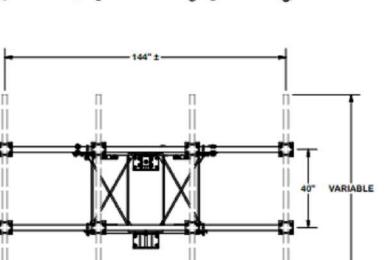


SUPPLEMENTAL

SHEET NUMBER:

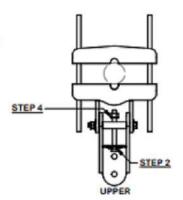
REVISION:

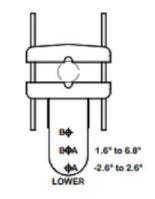


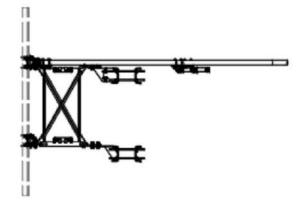


ANGLE CALIBRATING PROCEDURE:

- 1. MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE:
 - HOLE A = -2.6° TO 2.6°
 - HOLE B = 1.6° TO 6.8°
- 2. USE CALIBRATING BOLT TO ADJUST FRAME TO DESIRED TAPER
- TORQUE LOCKING BOLTS TO 100 ft.-lbs.
- ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.







REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017
В	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017
C	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017
D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	6/29/2018

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (# 0.0507)

DRILLED AND GAS OUT HOLES (# 0.0507) - NO COMING OF HOLES LASER CUT EDGES AND HOLES (# 0.0707) - NO COMING OF HOLES SENDS ARE ± 1/2 DEGREE

ALL OTHER MACHIMING (# 0.0507)

ALL OTHER ASSEMBLY (# 0.0507)

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

PRO Engineering Support Team: 1-888-753-7446	Locations: New York, NY Atlanta, GA Los Angeles, CA Phymouth, IN Salem, Oit Dallas, TX
--	--

D NO	CEK 1/25/2017	ENG. APPROVAL	PART
1	Control of the Contro	CHECKED BY BMC 12/13/2017	DWG.

VFA12-HD

VFA12-HD

VFA12-HD

SUPPLEMENTAL

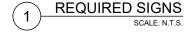
SHEET NUMBER:

REVISION:

NOTICE

DISCONNECT FOR UTILITY POWER TO GENERATOR IS LOCATED INSIDE THIS ENCLOSURE CAUTION: TWO
SOURCES OF SUPPLY.
STANDBY
GENERATOR
LOCATED OUTDOOR.

WARNING: SHOCK HAZARD
EXISTS IF GROUNDING
ELECTRODE CONDUCTOR OR
BONDING JUMPER CONNECTION
IN THE EQUIPMENT REMOVED
WHILE ALTERNATE SOURCE IS
ENENRGIZED.



SUPPLEMENTAL

SHEET NUMBER

REVISION



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

ACCESS BY AUTHORIZED PERSONNEL ONLY



3 DANGER SIGN ON GENERATOR
SCALE: N.T.S.

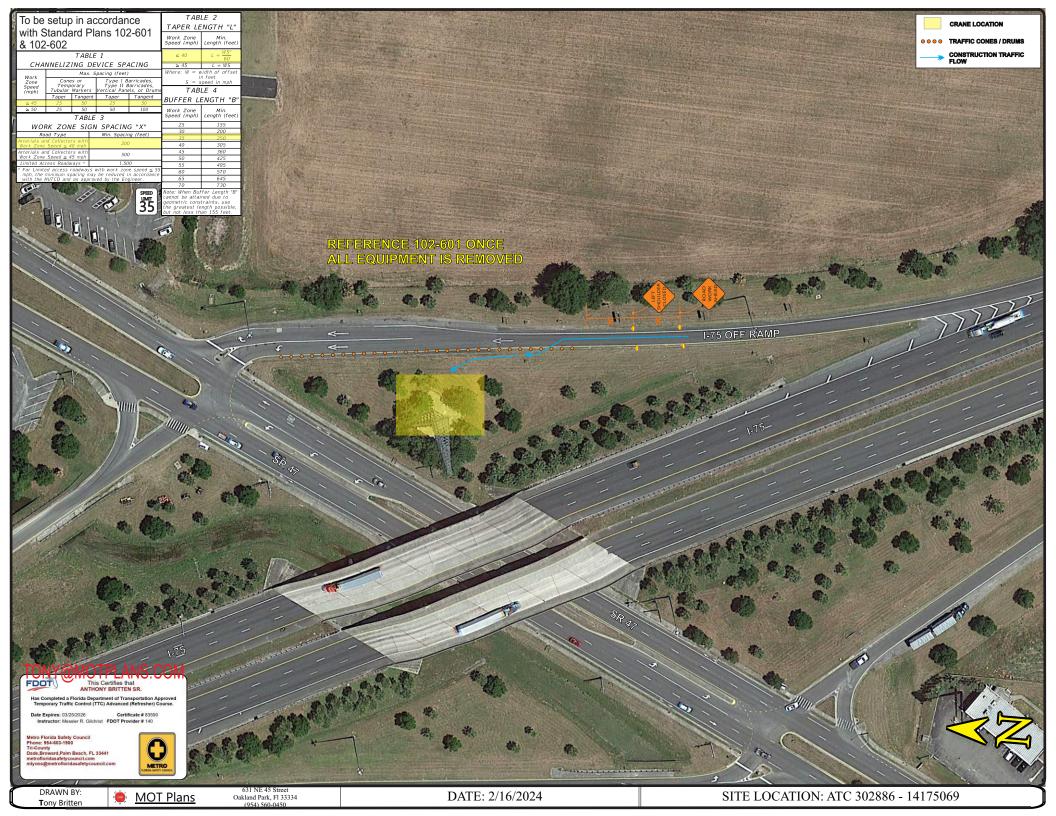
1 REQUIRED SIGNS
SCALE: N.T.S.



SUPPLEMENTAL

SHEET NUMBER

TREVIOION



SHEET	TABLE OF CONTENTS
1	General Notes, TTC Tables
	Definitions
	Temporary Traffic Control Devices
2	Overhead Work
2	Railroads
	Sight Distance
	Above Ground Hazard
	Clear Zone Widths For Work Zones
	Superelevation
	Length Of Lane Closures
3	Overweight/Oversize Vehicles
	Lane Widths
	High-Visibility Safety Apparel
	Speed Reduction Signing
	Flagger Control
4	Survey Work Zones
	Signs
5	Work Zone Sign Supports
6	Commonly Used Warning and Regulatory Signs In Work Zones
	Manholes/Crosswalks/Joints
	Truck Mounted Attenuators
7	Signals
	Channelizing Devices
	Channelizing Devices Consistency
	Advanced Warning Arrow Boards
8	Drop-Offs In Work Zones
9	Business Entrance
9	Temporary Asphalt Separator
10	Channelizing Devices Notes
	Temporary Barrier Notes
11	Pavement Markings

GENERAL NOTES:

- 1. This Index contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Certain requirements in this Index are based on the high volume nature of State Highways. For highways, roads and streets off the State Highway System, the local agency $({\it City/County}) \ having \ jurisdiction \ may \ adopt \ requirements \ based \ on \ the \ minimum \ requirements$ provided in the MUTCD.
- 2. Use this Index in accordance with the Plans and Indexes 102-601 through 102-680. Indexes 102-601 through 102-680 are Department-specific typical applications of commonly encountered situations. Adjust device location or number thereof as recommended by the Worksite Traffic Supervisor and approved by the Engineer. Devices include, but are not limited to, flaggers, portable temporary signals, signs, pavement markings, and channelizing devices. Comply with MUTCD or applicable Department criteria for any changes and document the reason for the change.
- 3. Except for emergencies, any road closure on State Highway System must comply with Section 335.15, F.S.

TABLE 1							
CHANNELIZING DEVICE SPACING							
Work Max. Spacing (feet)							
Zone Speed (mph)	Cones or Temporary Tubular Markers		Type I Barricades, Type II Barricades, Vertical Panels, or Drums				
	Taper	Tangent	Taper	Tangent			
≤ 45	25	50	25	50			
≥ 50	25	50	50	100			

TABLE 2			
TAPER LENGTH "L"			
Work Zone Speed (mph)	Min. Length (feet)		
≤ 40	$L = \frac{WS^2}{60}$		
≥ 45	L = WS		
Where: W = width of offset in feet S = speed in mph			

	TABLE 3				
	WORK ZONE SIG	WORK ZONE SIGN SPACING "X"			
	Road Type	Min. Spacing (feet)			
	Arterials and Collectors with Work Zone Speed ≤ 40 mph	200			
Arterials and Collectors with Work Zone Speed ≥ 45 mph		500			
	Limited Access Roadways *	1,500			
	* For Limited access roadways with work zone speed ≤ 5 mph, the minimum spacing may be reduced in accordanc with the MUTCD and as approved by the Engineer.				



TABLE 4				
BUFFER LENGTH "B"				
Work Zone Speed (mph)	Min. Length (feet)			
25	155			
30	200			
35	250			
40	305			
45	360			
50	425			
55	495			
60	570			
65	645			
70	730			
Note: When Buffer Length "B" cannot be attained due to geometric constraints, use the greatest length possible, but not less than 155 feet.				

TONY MOTPLANS.COM
This Certifies that
ANTHONY BRITTEN SR. Has Completed a Florida Department of Transportation Approved Temporary Traffic Control (TTC) Advanced (Refresher) Course.

Metro Florida Safety Council Phone: 954-603-1900 Tri-County Dade, Broward, Palm Beach, FL 33441 metrofloridasafetycouncil.com mlyons²⁰



DESCRIPTION: LAST REVISION 11/01/20



FY 2023-24 STANDARD PLANS

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES

INDEX 102-600

SHEET 1 of 11

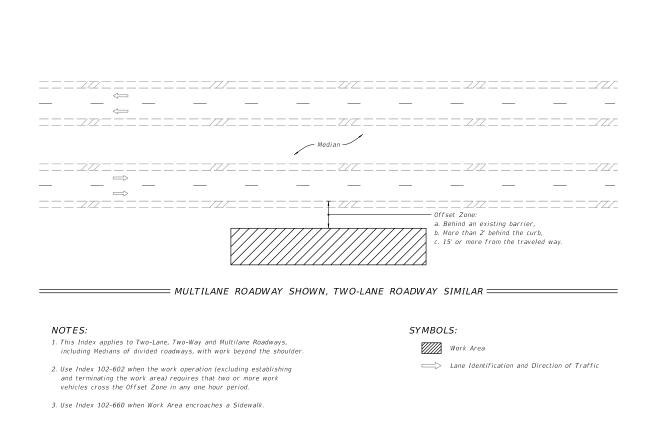
DRAWN BY: Tony Britten



631 NE 45 Street Oakland Park, Fl 33334

DATE: 2/16/2024

SITE LOCATION:





LAST REVISION 11/01/20

DESCRIPTION:

METRO

FDOT

FY 2023-24 STANDARD PLANS

DATE: 2/16/2024

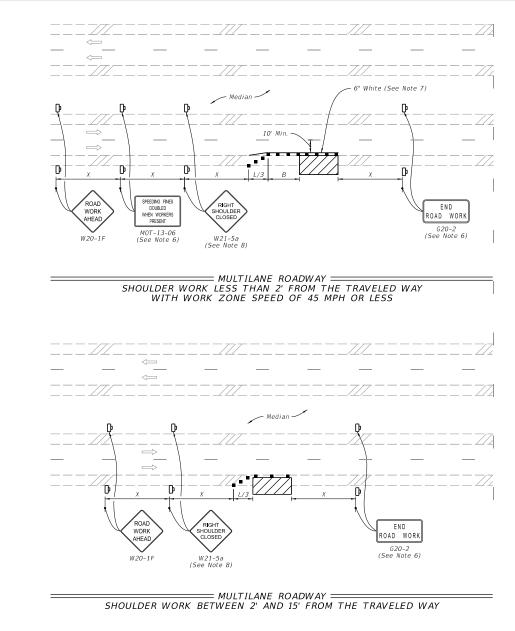
TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER

INDEX 102-601

SHEET 1 of 1

MOT Plans

SITE LOCATION:



DRAWN BY: Tony Britten

REVISION

11/01/20

MOT Plans

TONY MOTPLANS.COM
This Certifies that
ANTHONY BRITTEN SR.

Has Completed a Florida Department of Transportation Approve Temporary Traffic Control (TTC) Advanced (Refresher) Course

METRO

Work Zone Sign

SYMBOLS:

Work Area

Metro Florida Safety Council Phone: 954-603-1900 Tri-County Dade, Broward, Palm Beach, FL 33441 metrofloridasafetycouncil.com mlyons@metrofloridasafetycouncil.con

DESCRIPTION:

631 NE 45 Street Oakland Park, Fl 33334 (954) 560-0450

■ Channelizing Device (See Index 102-600)

Lane Identification and Direction of Traffic

DATE: 2/16/2024

FY 2023-24

STANDARD PLANS

TWO-LANE AND MULTILANE, WORK ON SHOULDER

INDEX

102-602

SHEET

2 of 2

FDOT

SITE LOCATION: