Verizon

VERIZON SITE NUMBER: 5000025228

VERIZON SITE NAME: TMOBILE LITTLE GUM SWAMP

VERIZON PROJECT: 16276093

SITE TYPE: MONOPOLE

149'-2" **TOWER HEIGHT:**

BUSINESS UNIT #:

VERIZON SIGNATURE BLOCK

APPROVAL

RADIO

SITE ACQUISITION

CONSTRUCTION

MICROWAVE

EOUIPMENT

APPROVAL

PLANNER

LANDLORD

CONSTRUCTION

PROJECT ADMINISTRATOR

WO ADMINISTRATOR

8381 NE MOLINO RD **SITE ADDRESS:**

LAKE CITY, FL 32055

DATE

COUNTY: COLUMBIA

APPROVALS

SIGNATURE

FL - COLUMBIA COUNTY **JURISDICTION:**



VERIZON SITE NUMBER: 5000025228

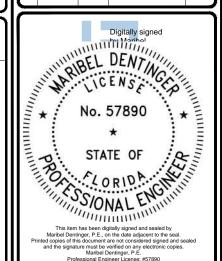
BU #: 825403

CROWN CASTLE SITE NAME LITTLE GUM SWAMP

> 8381 NE MOLINO RD LAKE CITY, FL 32055

> > EXISTING 149'-2" MONOPOLE

| | ISSUED FOR: | | | | | | | | | |
|----|-------------|------|--------------|---------|--|--|--|--|--|--|
| EV | DATE | DRWN | DESCRIPTION | DES./QA | | | | | | |
| 0 | 3/18/25 | BKA | CONSTRUCTION | MD | | | | | | |
| 1 | 04/10/25 | BKA | CONSTRUCTION | MD | | | | | | |
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CROWN CASTLE USA INC COA #28970

IT IS A VIOLATION OF LAW FOR ANY PERSON, OF A LICENSED PROFESSIONAL ENGINEER,

SHEET NUMBER

REVISION

SITE INFORMATION

CROWN CASTLE USA INC.

BU NUMBER:

TOWER OWNER: CROWN CASTLE

2000 CORPORATE DRIVE VERIZON WIRELESS

LITTLE GUM SWAMP

CARRIER/APPLICANT:

SITE ADDRESS:

7701 E TELECOM PARKWAY TEMPLE TERRACE, FL 33637 8381 NE MOLINO RD

EXISTING

LAKE CITY, FL 32055 COUNTY:

LATITUDE

30° 15' 39.98" / 30.261106° LONGITUDE: -82° 28' 25.07" / -82.473631° LAT/LONG TYPE NAD83

GROUND ELEVATION: AREA OF CONSTRUCTION:

CURRENT ZONING: 01-3S-18-10257-000 MAP/PARCEL#:

OCCUPANCY CLASSIFICATION: U

TYPE OF CONSTRUCTION:

A.D.A. COMPLIANCE:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

PROPERTY OWNER:

USDA FOREST SERVICE 2900 NW STEWART PKWY ROSEBURG, OR 97471

IURISDICTION

FL - COLUMBIA COUNTY 135 NE HERNANDO AVE. SUITE-21

LAKE CITY FL 32055

ELECTRIC PROVIDER:

(800) 468-4243

PROJECT TEAM

A&E FIRM:

CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG PA 1531

CROWN CASTLE CONTACTS:

2000 CORPORATE DRIVE

DEREK SMITH - PROJECT MANAGER DEREK.SMITH@CROWNCASTLE.COM SUSAN PALM - AES

SUSAN.PALM@CROWNCASTLE.COM

PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER

SHEET# SHEET DESCRIPTION T-1 TITLE SHEET GENERAL NOTES SITE PLAN SITE PLAN C-2 TOWER ELEVATIONS ANTENNA PLANS C-3 FINAL EQUIPMENT SCHEDULE EQUIPMENT DETAILS & SPECIFICATIONS EQUIPMENT DETAILS & SPECIFICATIONS C-5.2 COLOR CODE MATRIX SIGNAGE REQUIREMENTS & EQUIPMENT DETAILS PANEL SCHEDULE & ONE-LINE DIAGRAM CONDUIT DETAILS E-2 GROUNDING DETAILS GROUNDING DETAILS TTACHED MOUNT MODIFICATION (BY OTHERS)

DRAWING INDEX

SITE ACQUISITION PROJECT MANAGER LITILITY MANAGER

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CALL FLORIDA ONE CALL CALL 3 WORKING DAYS



CONTRACTOR PMI REQUIREMENTS

PMLACCESSED AT SMART TOOL VENDOR PROJECT NUMBER

https://pmi.vzwsmart.com

VzW LOCATION CODE (PSLC) 130771

*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT

MOUNT MODIFICATION REQUIRED

VzW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VzW SMART KIT APPROVED VENDORS

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND. CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:

• REMOVE (6) CSS - X7CQAP-86-865-V ANTENNAS REMOVE (6) ERICSSON - 2XRUL01 B13 RADIOS

CROWN CASTLE USA INC. SINGNATURE BLOCK

- INSTALL MOUNT MODIFICATION PER MOUNT ANALYSIS BY COLLIERS ENGINEERING & DESIGN DATED 2/09/25
- INSTALL (6) COMMSCOPE NHH-65C-HG-R2B ANTENNAS
- INSTALL (3) ERICSSON AIR6419 ANTENNAS
- INSTALL (3) ERICSSON 4890 RADIOS
- INSTALL (3) ERICSSON 4490 RADIOS
- · INSTALL (1) 12 OVP
- INSTALL (2) HYBRID CABLE 6X12 HYBRID CABLE DC TRUNKS

GROUND SCOPE OF WORK • REMOVE CDMA CABINET

- REMOVE PPC/ATS
- RESTRING EXISTING VRLA BATTERIES FOR (2) -48 STRINGS AND
- INSTALL ROUTER, BASEBAND, UPCONVERTER, SITBOSS

APPLICABLE CODES & REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE UURENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING UUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT ONFORMING TO THESE CODES:

NO SCALE

LOCATION MAP

Florida Trail Turkey Run Trailhead

Warmouth Pond - Oceola National Forest

CODE TYPE BUILDING MECHANICAL ELECTRICAL

CODE 2023 FLORIDA BUILDING CODE 8TH EDITION/2021 IBC

2023 FLORIDA MECHANICAL CODE 8TH EDITION/2021 IBC 2023 FLORIDA ELECTRICAL CODE 8TH EDITION/2020 NEC

STRUCTURAL ANALYSIS: TOWER ENGINEERING PROFESSIONALS DATED: 02/28/2025

MOUNT ANALYSIS: COLLIERS ENGINEERING & DESIGN DATED: 02/09/2025

RFDS REVISION: 0 DATED: 11/08/2024 ORDER ID: 689230

REVISION: 0

NO PROPOSED LOADING TO BE ADDED UNTIL MOUNT MODIFICATIONS ARE INSTALLED PER MOUNT ANALYSIS BY COLLIERS ENGINEERING & DESIGN DATED

DIRECTIONS

• REMOVE 3120 LTE CABINET

"LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR REINFORCEMENTS, AND/OW EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OF FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURIS REQUIREMENTS.

ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING

PLANS, CIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANS/ASSE A10.48 (LATEST EDITION): FEDERAL STATE, AND LOCAL REQULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC STANDARD CED-STD-10253 INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).

ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-1024 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."

IF THE SPECIFIED FOUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS. THE CONTRACTOR

IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REQULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.

ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW, THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.

ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS LATEST APPROVED REVISION

SPECIFICATIONS, CATEST APPROVED REVISION.

CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL

OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.

THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.

16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED

SURFACE APPLICATION.

THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.

CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL

MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER

CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION, TRASH AND DEBRIS SHOULD BE REMOVED

21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: VERIZON

TOWER OWNER: CROWN CASTLE LISA INC. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY

WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES SHECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL DESERVATION OF THE FINED STRUCTURE ONLY.

NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILER WORK ON THE PROJECT.

DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.

SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY

ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION DELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL WISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
ALL MATERIALS FURNISHED AND INSTALLED SHALL BEIN STRICT ACCORPANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES, CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LOBDINANCES, CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING

WITH ANY SUCH CHANGE OF INSTALLATION.

CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN

JRAWINGS. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEM<mark>ENTS, PAVEMENTS, CURBS, LANDS</mark>CAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND

OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST—IN—PLACE CONCRETE.
UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED

ALL CONCEPTE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF

PLACEMENT.

CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.

ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE

ON DRAWINGS CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...
CONCRETE EXPOSED TO EARTH OR WEATHER:

#6 BARS AND LARGER...... #5 BARS AND SMALLER.....CONCRETE NOT EXPOSED TO EARTH OR WEATHER:

SLAB AND WALLS... BEAMS AND COLUMNS.

A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

GREENFIELD GROUNDING NOTES:

ALL GHOUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

THE CONTRACTOR SHALL PERFORM IEEE FALL—OF—POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.

METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT

CLAMPS.

METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED

CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.

ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED.
EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS,

LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY)

ELECTRICAL INSTALLATION NOTES:

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.

CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.

WIRNING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

1. ALL COUPMENT SHALL BEAR THE UNDERWRITERS LABBRATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.

2. ALL OVERCUIRERNT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADDPTED CODE PRE THE GOVERNING JURISDICTION.

EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COUR CODED INSULATION OR ELECTRICAL TAPE (3M BRAND. 1/2" PLASTIC ELECTRICAL APE WITH UV

LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE

CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
ALL TIE WRAPE SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS

OTHERWISE SPECIFIED.

POWER AND CONTROL WRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH
TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND
BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75 C (90° C IF AVAILABLE).

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

AND NEC ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR

ELECTRICAL METALLIC TUBING (EMT) OR METAL—CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC ON STRAIGHTS AND SCHEDULE 80 PVC UNDER ALL TRAFFIC EASEMENTS AND ALL ELBOWS/90s. ABOVE GRADE CONDUIT TO BE SCH 80 PVC ON IMC/RMC CONDUIT. EMT IS ALLOWED AT STUB UP LOCATIONS AND INDOORS ONLY.

LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION

OCCURS OR FLEXIBILITY IS NEEDED.

OCCURS OR FLEXIBILITY IS NEEDED.
CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION—TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND

MIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS

WIREMAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).

SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).

CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING, CONDUITS SHALL BE RIGDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GROWN-COATED SHEET

EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.

METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY—COATED OR NON—CORRODING; SHALL MEET OR

EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.

26. NONMETALLIC RECEPTACLE. SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.

THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC.
BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

BEFORE COMMENCING WORK ON THE AC-POWER DISTRIBUTION PANELS.
THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY. 28.

APWA UNIFORM COLOR CODE:

TEMPORARY SURVEY MARKINGS ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES

GAS, OIL, STEAM, PETROLEUM, OR

RECLAIMED WATER, IRRIGATION, AND SLURRY LINES

SEWERS AND DRAIN LINES

COMMUNICATION, ALARM OR SIGNAL LINES. CABLES OR CONDUIT AND TRAFFIC LOOPS

WHITE PROPOSED EXCAVATION

YELLOW GAS, OIL, STEELIN, GASEOUS MATERIALS

POTABLE WATER

INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON" 30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

| CONDUCTOR COLOR CODE | | | | | | | |
|----------------------|-----------|------------------|--|--|--|--|--|
| SYSTEM | CONDUCTOR | COLOR | | | | | |
| | A PHASE | BLACK | | | | | |
| 120/240V, 1Ø | B PHASE | RED | | | | | |
| 120/2400, 10 | NEUTRAL | WHITE | | | | | |
| | GROUND | GREEN | | | | | |
| | A PHASE | BLACK | | | | | |
| | B PHASE | RED | | | | | |
| 120/208V, 3Ø | C PHASE | BLUE | | | | | |
| | NEUTRAL | WHITE | | | | | |
| | GROUND | GREEN | | | | | |
| | A PHASE | BROWN | | | | | |
| | B PHASE | ORANGE OR PURPLE | | | | | |
| 277/480V, 3Ø | C PHASE | YELLOW | | | | | |
| | NEUTRAL | GREY | | | | | |
| | GROUND | GREEN | | | | | |
| DC VOLTAGE | POS (+) | RED** | | | | | |
| DC VOLIAGE | NEG (-) | BLACK** | | | | | |
| | | | | | | | |

ABBREVIATIONS:

EXISTING FACILITY INTERFACE FRAME GENERATOR
GLOBAL POSITIONING SYSTEM
GLOBAL SYSTEM FOR MOBILE GEN GPS GSM LTE MGB LONG TERM EVOLUTION MASTER GROUND BAR MW (N) NEC (P) PP MICROWAVE NATIONAL ELECTRIC CODE PROPOSED POWER PLANT QUANTITY RECTIFIER RADIO BASE STATION
REMOTE ELECTRIC TILT
RADIO FREQUENCY DATA SHEET RFDS RRH RRU SIAD TMA TYP UMTS W.P. REMOTE RADIO HEAD REMOTE RADIO UNIT

SMART INTEGRATED DEVICE TOWER MOUNTED AMPLIFIER

UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM WORK POINT



VERIZON SITE NUMBER: 5000025228

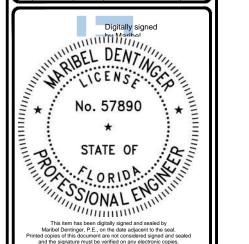
BU #: 825403

CROWN CASTLE SITE NAME LITTLE GUM SWAMP

> 8381 NE MOLINO RD LAKE CITY, FL 32055

> > **EXISTING 149'-2"** MONOPOLE

ISSUED FOR: DATE DRWN DESCRIPTION BKA CONSTRUCTION CONSTRUCTION MD BKA



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CROWN CASTLE USA INC. COA #28970

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SHEET NUMBER:





VERIZON SITE NUMBER: 5000025228

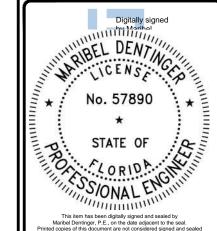
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| REV | DATE | DRWN | DESCRIPTION | DES./QA | | | | | |
| 0 | 3/18/25 | BKA | CONSTRUCTION | MD | | | | | |
| 1 | 04/10/25 | BKA | CONSTRUCTION | MD | | | | | |
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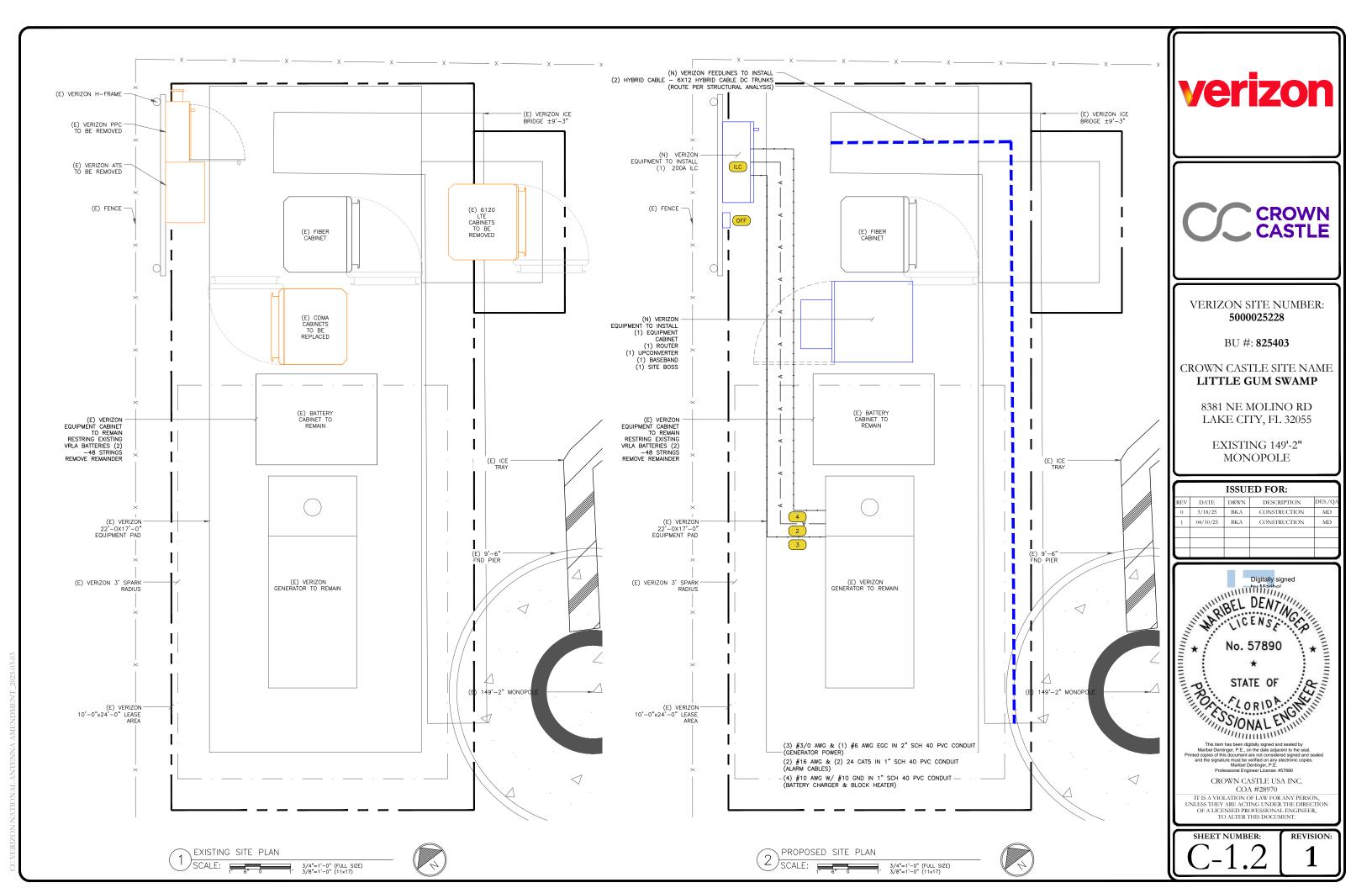
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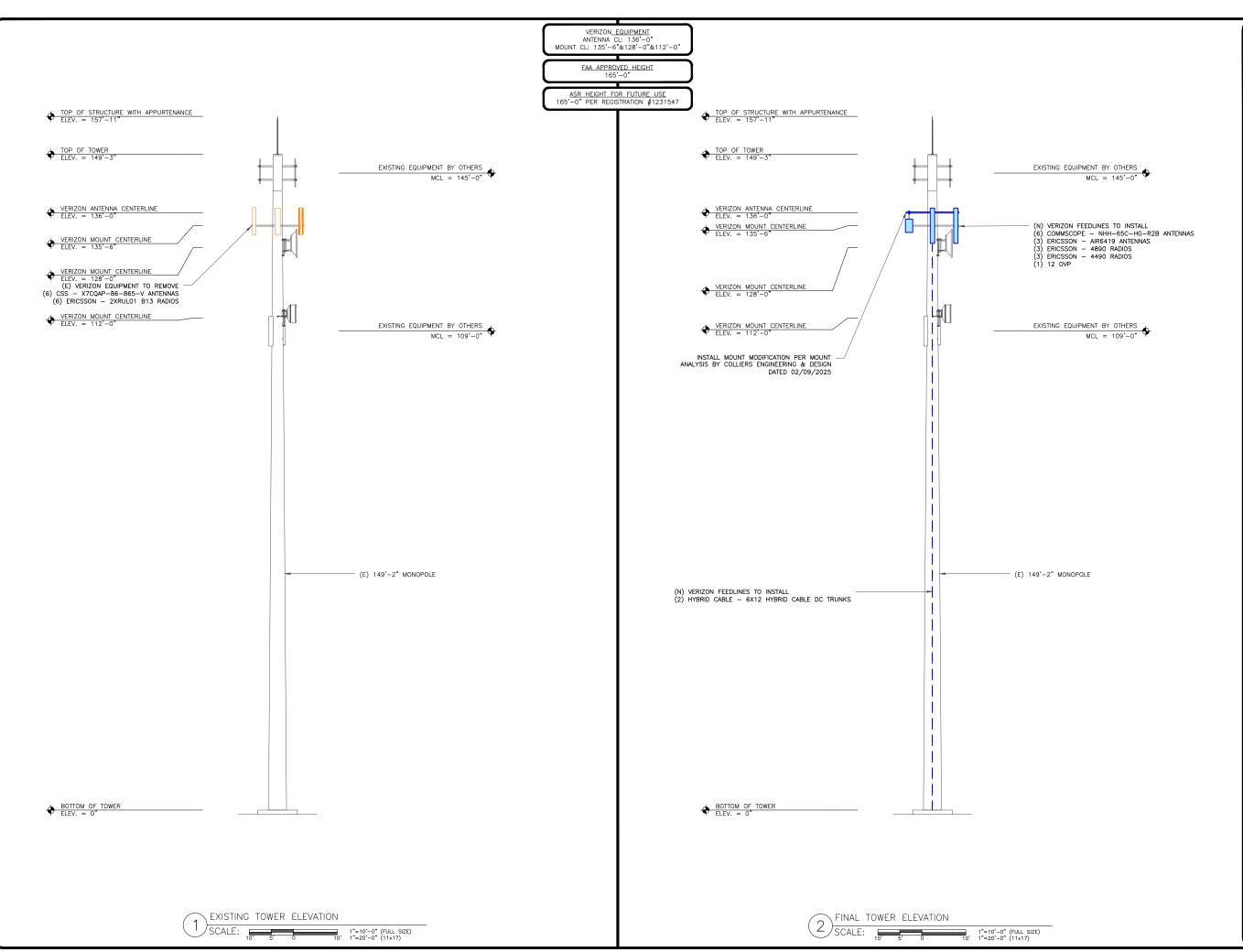
SHEET NUMBER:

REVISION:

SCALE: 4' 3' 2' 1' 0 4' 1/8"=1'-0" (FULL SIZE)







verizon

CROWN

VERIZON SITE NUMBER: 5000025228

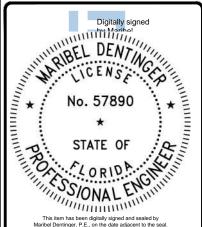
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LITTLE GUM SWAMP

8381 NE MOLINO RD LAKE CITY, FL 32055

> EXISTING 149'-2" MONOPOLE

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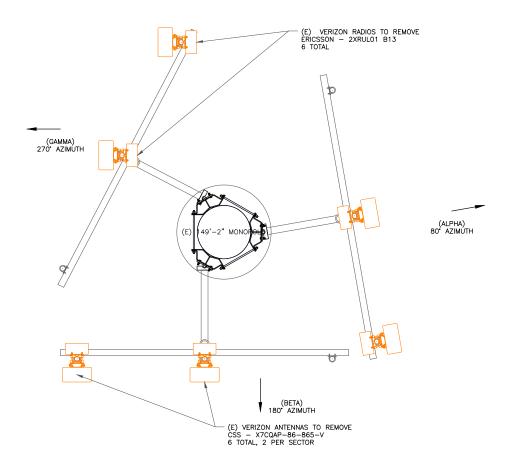
COA #28970

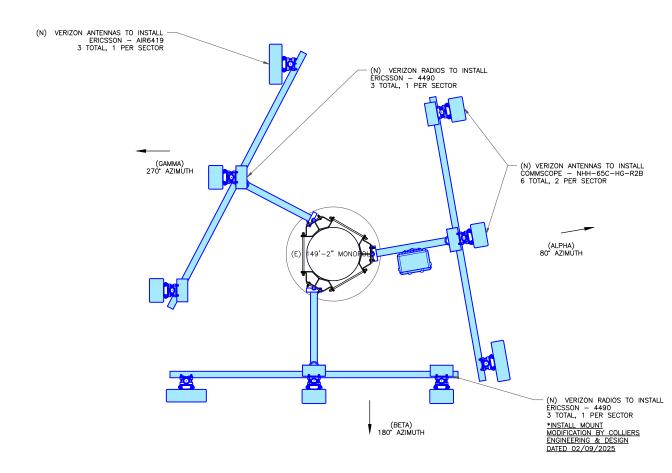
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SHEET NUMBER:

REVISION:

1-2









VERIZON SITE NUMBER: 5000025228

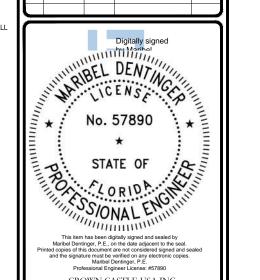
BU #: **825403**

CROWN CASTLE SITE NAME LITTLE GUM SWAMP

> 8381 NE MOLINO RD LAKE CITY, FL 32055

> > EXISTING 149'-2" MONOPOLE

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REVISION:

EXISTING ANTENNA PLAN @ 135'-6"

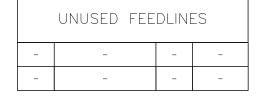


FINAL ANTENNA PLAN @ 135'-6"

(GC TO VERIFY WITH CURRENT RFDS)

| | ANTENNA | | | RADIO DIPLEXER | | | ER | TMA | | | SURGE PROTECTION CABLES | | | | | | | |
|----------|-----------------------------------|--------------------------------|---------|----------------|------|---------------------|----------|------|--------|----------|-------------------------|--------|------|--------------|------|------------------------------------|------|---------|
| POSITION | TECH | STATUS/MANUFACTURER MODEL | AZIMUTH | RAD CENTER | QTY. | STATUS/MODEL | LOCATION | QTY. | STATUS | LOCATION | QTY. | STATUS | QTY. | STATUS/MODEL | QTY. | STATUS/TYPE | SIZE | LENGTH |
| A1 | 850 700 1900 AWS3 AWS | (N) COMMSCOPE - NHH-65C-HG-R2B | 80* | 136'-0" | 1 | (N) ERICSSON - 4890 | TOWER | - | - | - | - | - | 1 | (N) 12 OVP | 2 | (N) 6X12 HYBRID CABLE DC TRUNKS | 2" | 186'-0" |
| A2 | 850 700 1900 AWS3 AWS | (N) COMMSCOPE - NHH-65C-HG-R2B | 80° | 136'-0" | 1 | (N) ERICSSON - 4490 | TOWER | - | - | - | - | _ | - | - | - | - | - | - |
| A3 | L-SUB6 | (N) ERICSSON - AIR6419 | 80° | 136'-0" | - | - | - | - | - | - | _ | _ | - | - | - | - | - | - |
| B1 | 850 700 1900 AWS3 AWS | (N) COMMSCOPE - NHH-65C-HG-R2B | 180° | 136'-0" | 1 | (N) ERICSSON - 4890 | TOWER | - | - | - | _ | - | _ | - | _ | - | I | - |
| B2 | 850 700 1900 AWS3 AWS | (N) COMMSCOPE - NHH-65C-HG-R2B | 180° | 136'-0" | 1 | (N) ERICSSON - 4490 | TOWER | - | - | - | _ | - | - | - | _ | - | - | - |
| B3 | L-SUB6 | (N) ERICSSON — AIR6419 | 180° | 136'-0" | _ | - | - | - | - | - | _ | _ | _ | - | _ | - | ı | - |
| G1 | 850 700 1900 AWS3 AWS | (N) COMMSCOPE - NHH-65C-HG-R2B | 270° | 136'-0" | 1 | (N) ERICSSON - 4890 | TOWER | - | - | - | _ | - | _ | - | - | - | - | - |
| G2 | 850 700 1900 AWS3 AWS | (N) COMMSCOPE - NHH-65C-HG-R2B | 270° | 136'-0" | 1 | (N) ERICSSON - 4490 | TOWER | - | - | - | - | - | - | - | - | - | - | - |
| G3 | L-SUB6 | (N) ERICSSON — AIR6419 | 270° | 136'-0" | _ | - | - | - | - | - | _ | - | _ | - | _ | - | ı | - |

FINAL EQUIPMENT SCHEDULE



FINAL EQUIPMENT SCHEDULE

SCALE: NOT TO SCALE



VERIZON SITE NUMBER: 5000025228

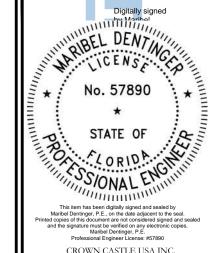
BU #: **825403**

CROWN CASTLE SITE NAME LITTLE GUM SWAMP

> 8381 NE MOLINO RD LAKE CITY, FL 32055

> > EXISTING 149'-2" MONOPOLE

| ISSUED FOR: | | | | | | | | |
|-------------|----------|------|--------------|---------|--|--|--|--|
| REV | DATE | DRWN | DESCRIPTION | DES./QA | | | | |
| 0 | 3/18/25 | BKA | CONSTRUCTION | MD | | | | |
| 1 | 04/10/25 | BKA | CONSTRUCTION | MD | | | | |
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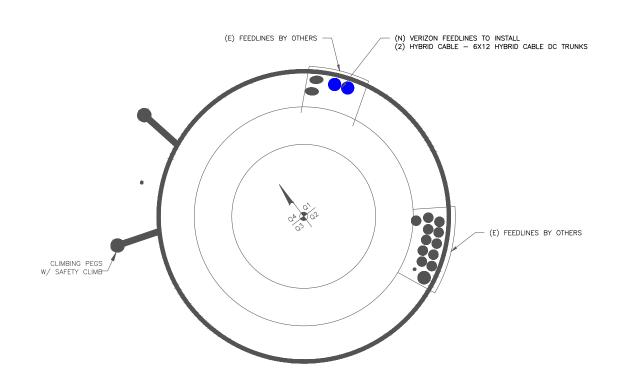
CROWN CASTLE USA INC.

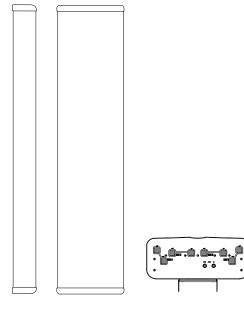
COA #28970

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^{*} REFER TO THE RFDS FOR MECHANICAL AND DOWNTILT INFORMATION





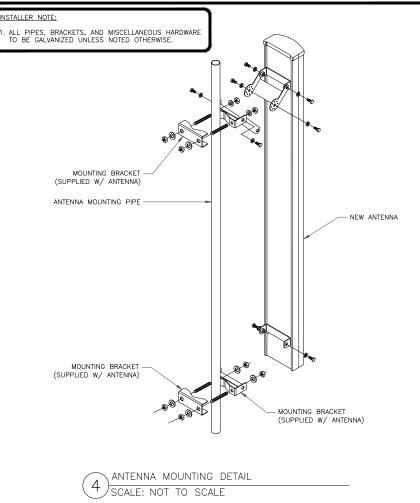
| ANTENNA SPECS | | | | | | |
|---------------|-------------------------|--|--|--|--|--|
| MANUFACTURER | COMMSCOPE | | | | | |
| MODEL # | NHH-65C-HG-R2B | | | | | |
| HxWxD | 95.98" x 11.85" x 7.09" | | | | | |
| WEIGHT | 53.79 LBS | | | | | |

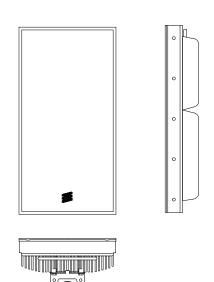
COMMSCOPE - NHH-65C-HG-R2B DETAIL
SCALE: NOT TO SCALE

BASE LEVEL DETAIL SCALE: NOT TO SCALE



| INSTALLER NOTES: 1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRUS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING. 2. DO NOT OPEN RRU PACKAGES IN THE RAIN. 3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE. 4. ANTENNA NOT SHOWN FOR CLARITY | |
|---|--|
| ANTENNA MOUNTING PIPE RRU MOUNTING PLATE PIPE MOUNT BRACKET | |
| RRH MOUNTING DETAIL SCALE: NOT TO SCALE | |





| ANTENNA SPECS | | | | | |
|---------------|----------------------|--|--|--|--|
| MANUFACTURER | ERICSSON | | | | |
| MODEL # | AIR6419 | | | | |
| HxWxD | 31.1" x 16.1" x 7.3" | | | | |
| WEIGHT | 55.4 LBS | | | | |

ERICSSON - AIR6419 DETAIL
SCALE: NOT TO SCALE





VERIZON SITE NUMBER: 5000025228

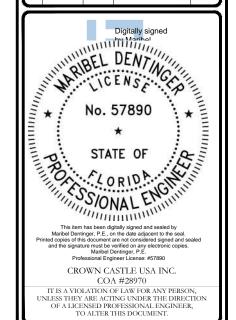
BU #: **825403**

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8381 NE MOLINO RD LAKE CITY, FL 32055

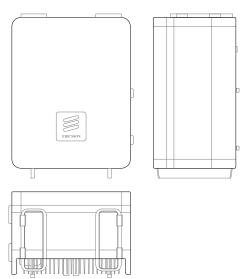
> EXISTING 149'-2" MONOPOLE

| Ì | ISSUED FOR: | | | | | | | | | |
|---|-------------|----------|------|--------------|---------|--|--|--|--|--|
| Ш | REV | DATE | DRWN | DESCRIPTION | DES./QA | | | | | |
| Ш | 0 | 3/18/25 | BKA | CONSTRUCTION | MD | | | | | |
| Ш | 1 | 04/10/25 | BKA | CONSTRUCTION | MD | | | | | |
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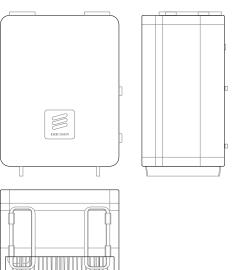
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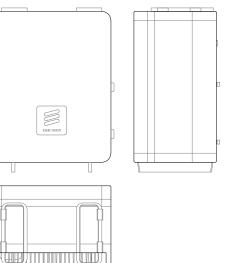
| RADIO SPECS | | | | | | |
|--------------|-------------------------|--|--|--|--|--|
| MANUFACTURER | ERICSSON | | | | | |
| MODEL # | 4890 B2/B66A | | | | | |
| HxWxD | 17.50" x 15.10" x 6.90" | | | | | |
| WEIGHT | 68 LBS | | | | | |

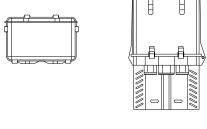
ERICSSON - 4890 B25/B66A SCALE: NOT TO SCALE



| RADIO SPECS | | | | | | | | |
|--------------|------------------------|--|--|--|--|--|--|--|
| MANUFACTURER | ERICSSON | | | | | | | |
| MODEL # | 4490 | | | | | | | |
| HxWxD | 17.50" x 15.20"x 6.80" | | | | | | | |
| WEIGHT | 68.40 LBS | | | | | | | |

ERICSSON - RADIO 4490 2 SCALE: NOT TO SCALE





| OVP SPECS | | | | | | | | |
|--------------|-----------------------|--|--|--|--|--|--|--|
| MANUFACTURER | RAYCAP | | | | | | | |
| MODEL # | RHSDC-6627-PF-48 | | | | | | | |
| HxWxD | 29.5" x 16.5" x 12.6" | | | | | | | |
| WEIGHT | 32 LBS | | | | | | | |

RAYCAP - RHSDC-6627-PF-48 RAYCAP - RHSDC-662 SCALE: NOT TO SCALE





VERIZON SITE NUMBER: 5000025228

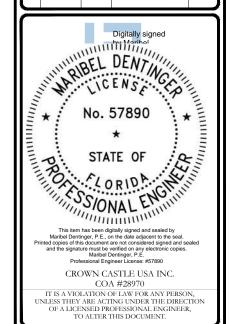
BU #: **825403**

CROWN CASTLE SITE NAME LITTLE GUM SWAMP

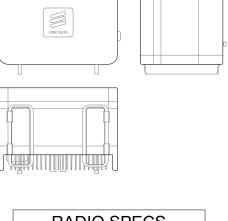
> 8381 NE MOLINO RD LAKE CITY, FL 32055

> > EXISTING 149'-2" MONOPOLE

| ISSUED FOR: | | | | | | | | | | |
|-------------|---------|--------------|--------------------------|--|--|--|--|--|--|--|
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| 04/10/25 | BKA | CONSTRUCTION | MD | | | | | | | |
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| | 3/18/25 | 3/18/25 BKA | 3/18/25 BKA CONSTRUCTION | | | | | | | |



SHEET NUMBER:



STANDARD LABELING - COLOR CODE

| PORT# | SECTOR | | | | | | | TECHNOLO | DGY | | | | | |
|--------------|--------|-------|-------|-------|-------|-------|--------|----------|-------|-------|-------|-------|-------|-------|
| PORT# SECTOR | | | .(| BRS | | | C-BAND | | | 850 | CDMA | | 1900 | CDMA |
| 1 | | Red | | | | Red | | | Red | | | | Red | |
| 2 | ALBUM | Red | Red | | | Red | Red | | Red | Red | Red | Red | Red | Red |
| 3 | ALPHA | Red | Red | Red | | Red | Red | Red | N/A | N/A | N/A | N/A | NA | NA |
| 4 | | Red | Red | Red | Red | N/A | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA |
| 1 | | White | | | | White | | 1 | White | | | 1 | White | |
| 2 | BETA | White | White | | | White | White | | White | White | White | White | White | White |
| 3 | | White | White | White | | White | White | White | N/A | N/A | N/A | N/A | NA | NA |
| 4 | | White | White | White | White | N/A | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA |
| 1 | | Blue | | | | Blue | | | Blue | | 9 | ,, | Blue | |
| 2 | GAMMA | Blue | Blue | | | Blue | Blue | | Blue | Blue | Blue | Blue | Blue | Blue |
| 3 | GAMIMA | Blue | Blue | Blue | | Blue | Blue | Blue | N/A | N/A | N/A | N/A | NA | NA |
| 4 | | Blue | Blue | Blue | Blue | N/A | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA |
| 1 | | Green | | | | Green | | | Green | | 3 | 3 | Green | |
| 2 | DELTA | Green | Green | | | Green | Green | | Green | Green | Green | Green | Green | Green |
| 3 | DELTA | Green | Green | Green | | Green | Green | Green | N/A | N/A | N/A | N/A | NA | NA |
| 4 | | Green | Green | Green | Green | N/A | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA |

**For common lines / shared jumpers, please mark all active technologies with the appropriate color band.
**Number of technology color bands is meant to represent line number (i.e. 1 red, 3 purple = Alpha 700 line 3)

**Only sector color coding is applied on 850 CDMA, 1900 CDMA, CBRS, AND C-Band lines

68

67

STANDARD LABELING - COLOR CODE

| PORT# | CECTOR | | | | | 2. | | | TECHI | NOLOGY | | | | 100 | | | |
|--------|---------------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|---------|--------|--------|--------|--------|
| PURI # | SECTOR | 700 | | | | 850LTE | | | 2100 | | | | 1900LTE | | | | |
| 1 | | Purple | | | | Brown | | | | Yellow | | | | Orange | | | |
| 2 | 1,000,000,000 | Purple | Purple | 3 | | Brown | Brown | | | Yellow | Yellow | | | Orange | Orange | | |
| 3 | ALPHA | Purple | Purple | Purple | | Brown | Brown | Brown | | Yellow | Yellow | Yellow | | Orange | Orange | Orange | |
| 4 | | Purple | Purple | Purple | Purple | Brown | Brown | Brown | Brown | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Orange | Orange |
| 1 | | Purple | | | | Brown | | | | Yellow | | | | Orange | | | |
| 2 | DETA | Purple | Purple | | | Brown | Brown | | | Yellow | Yellow | | | Orange | Orange | | |
| 3 | BETA | Purple | Purple | Purple | | Brown | Brown | Brown | | Yellow | Yellow | Yellow | | Orange | Orange | Orange | |
| 4 | | Purple | Purple | Purple | Purple | Brown | Brown | Brown | Brown | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Orange | Orange |
| 1 | | Purple | | | | Brown | | | | Yellow | | | | Orange | | | |
| 2 | | Purple | Purple | | | Brown | Brown | | | Yellow | Yellow | | | Orange | Orange | | |
| 3 | GAMMA | Purple | Purple | Purple | | Brown | Brown | Brown | | Yellow | Yellow | Yellow | | Orange | Orange | Orange | |
| 4 | | Purple | Purple | Purple | Purple | Brown | Brown | Brown | Brown | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Orange | Orange |
| 1 | | Purple | 4 | | | Brown | -0.0 | | | Yellow | ii- | | | Orange | | | |
| 2 | 20.00 | Purple | Purple | -8 | | Brown | Brown | | | Yellow | Yellow | | | Orange | Orange | | |
| 3 | DELTA | Purple | Purple | Purple | | Brown | Brown | Brown | | Yellow | Yellow | Yellow | | Orange | Orange | Orange | |
| 4 | | Purple | Purple | Purple | Purple | Brown | Brown | Brown | Brown | Yellow | Yellow | Yellow | Yellow | Orange | Orange | Orange | Orange |

**For common lines / shared jumpers, please mark all active technologies with the appropriate color band. **Number of technology color bands is meant to represent line number (i.e. 1 red, 3 purple = Alpha 700 line 3)

**Only sector color coding is applied on 850 CDMA, 1900 CDMA, CBRS, AND C-Band lines

verizon



VERIZON SITE NUMBER: 5000025228

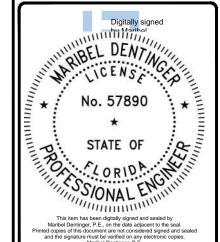
BU #: **825403**

CROWN CASTLE SITE NAME LITTLE GUM SWAMP

> 8381 NE MOLINO RD LAKE CITY, FL 32055

> > EXISTING 149'-2" MONOPOLE

| _ | | | | | | | | | | | |
|-----|-------------|------|--------------|---------|--|--|--|--|--|--|--|
| | ISSUED FOR: | | | | | | | | | | |
| REV | DATE | DRWN | DESCRIPTION | DES./QA | | | | | | | |
| 0 | 3/18/25 | BKA | CONSTRUCTION | MD | | | | | | | |
| 1 | 04/10/25 | BKA | CONSTRUCTION | MD | | | | | | | |
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CROWN CASTLE USA INC.

CROWN CASTIEL GSA INC.
COA #28970
IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET NUMBER:

NOTE: CONTRACTOR TO PROVIDE REQUIRED SIGNAGE

FOR ELECTRICAL PANELS, DISCONNECTS, TRANSFER SWITCHES, ETC. PER NATIONAL ELECTRICAL CODE ARTICLE 700.7



PLACE ON VISIBLE SIDE OF EXISTING GENERATOR TANK 10" x 7" SIGN



PLACE ON (2) VISIBLE SIDES OF EXISTING GENERATOR TANK 18" x 18" SIGN CAUTION: THIS TANK TO CONTAIN PETROLEUM PRODUCTS ONLY

(BLACK LETTERING W/ WHITE BACKGROUND)

NO SMOKING

(RED LETTERING W/ WHITE BACKGROUND)

COMBUSTIBLE

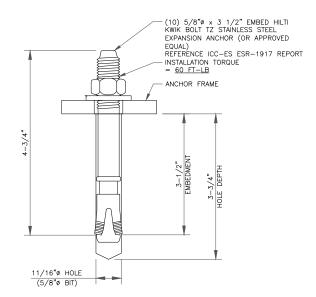
(RED LETTERING SWOIL NOTES: WHITE BACKGROUND)

FLAMMABLE

(RED LETTERING W/ WHITE BACKGROUND)

SIGNAGE REQUIREMENTS
SCALE: NOT TO SCALE

INSTALLER NOTE: PER IBC 1705.12.6, PERIODIC SPECIAL INSPECTION OF ANCHORAGE FOR STANDBY POWER SYSTEMS IS REQUIRED



TYPICAL ANCHOR DETAIL SCALE: NOT TO SCALE

verizon



VERIZON SITE NUMBER: 5000025228

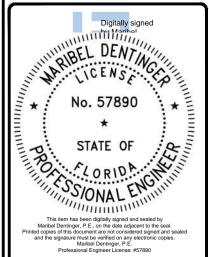
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CROWN CASTLE SITE NAME
LITTLE GUM SWAMP

8381 NE MOLINO RD LAKE CITY, FL 32055

> EXISTING 149'-2" MONOPOLE

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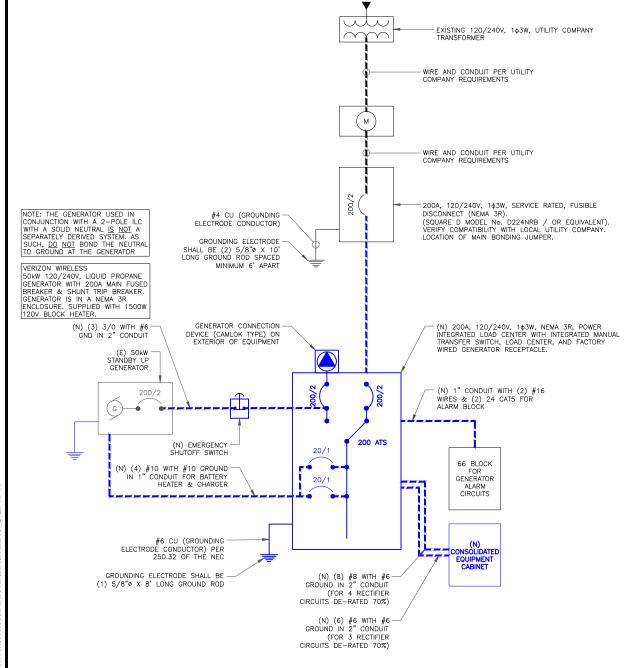
SHEET NUMBER:

NOTES:

- ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, OR XHHW-2 UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE—LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 3. ALL GROUNDING AND BONDING PER THE NEC.

INSTALLER NOTE:

I. THE GENERATOR SIZE HAS BEEN DETERMINED BY VERIZON BASED ON AN INTERNAL LOAD ANALYSIS OF THEIR EQUIPMENT. THE GENERATOR SIZE WAS PROVIDED AS PART OF THE SCOPING ANALYSIS. VERIZON SHALL BE RESPONSIBLE FOR ENSURING THAT THEIR SYSTEM CONFIGURATION DOES NOT EXCEED THE MANUFACTURER POWER RATING OF THE SPECIFIED GENERATOR. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING A SPOT READING OF THE PANEL AT PEAK OPERATING HOURS TO VERIFY THE VERIZON PANEL SCHEDULE CALCULATIONS ARE NOT EXCEEDED. IN THE EVENT THE READING EXCEEDS THE CALCULATED PANEL SCHEDULE LOADS, RECORD THE READING AND CONSULT VERIZON ENGINEERING MANAGER PRIOR TO PROCEEDING WITH GENERATOR INSTALLATION.



ONE - LINE DIAGRAM

SCALE: NOT TO SCALE



2 EXISTING PPC SCALE: NOT TO SCALE

| MAIN: 200 AMP | | | VOLTAG | LTAGE/PHASE: 120/240V, 1-PHASE, 3-WIRE | | | | | | SHORT CIRCUIT CURRENT RATING: 65k AIC | | | |
|---------------------------|--------------|--|---------|--|-----------------|-------------------|---|---------|---------------------|---------------------------------------|---|--|--|
| MOUNTING: UTILITY FRAME | | | ENCLO: | SURE: NE | MA 3R | | | | SURGE | PROTEC | FION DEVICE: YES | | |
| SERVICE FROM: TRANSFORMER | | | MANUE | ACTURER | : ASCO | | | | MODEL NUMBER: D300L | | | | |
| DESCRIPTION | LOAD (VA) | C ui | C/B | CIR No. | LOAI A-PHASE |) (VA) B-PHASE | CIR No. | C/B | C oi | LOAD (VA) | DESCRIPTION | | |
| | 5 | С | | 1 | 1405 | DATESE | 2 | | c | 1400 | | | |
| 'SPD/TVSS | 5 | c | 50 | 3 | 1400 | 1405 | 4 | 30 | c | 1400 | RECTIFIER #1 | | |
| CABINET GFCI | 180 | NC | 20 | 5 | 1580 | 1100 | 6 | | c | 1400 | | | |
| GEN BATT CHARGER | 1200 | NC | 20 | 7 | 1000 | 2600 | 8 | 30 | c | 1400 | RECTIFIER #2 | | |
| GEN BLOCK HEATER | 1500 | NC | 20 | 9 | 2900 | | 10 | | С | 1400 | | | |
| | 3840 | NC | l | 11 | | 5240 | 12 | 30 | С | 1400 | RECTIFIER #3 | | |
| BATTERY CABINET | 3840 | NC | 80 | 13 | 5240 | | 14 | | Ç | 1400 | RECTIFIER #4 | | |
| | | | | 15 | | 1400 | 16 | 30 | С | 1400 | | | |
| | | | | 17 | 1400 | | 18 | 30 | С | 1400 | | | |
| | | | | 19 | | 1400 | 20 | 30 | С | 1400 | RECTIFIER #5 | | |
| | | | | 21 | 1400 | | 22 | 30 | C | 1400 | RECTIFIER #6 | | |
| | | | | 23 | | 1400 | 24 |] 30 | С | 1400 | NECTIFIEN WG | | |
| | | | | 25 | 1400 | | 26 | 30 | С | 1400 | RECTIFIER #7 | | |
| | | | | 27 | | 1400 | 28 | | Ç | 1400 | NAME OF THE PARTY | | |
| | | | | 29 | 0 | | 30 | | | | | | |
| | | В | ASE LOA | (VA) = | 15325 | 14845 | C = CONTINUOUS LOAD; NC = NON-CONTINUOUS LOAD | | | | | | |
| | 25% OF | 25% OF CONTINUOUS LOAD (VA) = 2461 2461 *INDICATES BREAKERS PREINSTALLED BY MANUFACTURE TOTAL LOAD (VA) = 17776 17296 LOCATION (MAY VARY. TOTAL LOAD (VA) = 449 445 BOLD INDICATES NEW LOAD. ALL OTHER LOADS ARE EXIST | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | Т | OTAL LO | AD (A) = | 149 | 145 | | BOLD IN | APV IES I | ME VO LOAL | D. ALL OTHER LOADS ARE EXISTING. | | |

PANEL SCHEDULE
SCALE: NOT TO SCALE





VERIZON SITE NUMBER: 5000025228

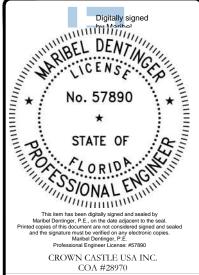
BU #: **825403**

CROWN CASTLE SITE NAME
LITTLE GUM SWAMP

8381 NE MOLINO RD LAKE CITY, FL 32055

EXISTING 149'-2" MONOPOLE

| | ISSUED FOR: | | | | | | | | | | |
|-----|-------------|------|--------------|---------|--|--|--|--|--|--|--|
| REV | DATE | DRWN | DESCRIPTION | DES./QA | | | | | | | |
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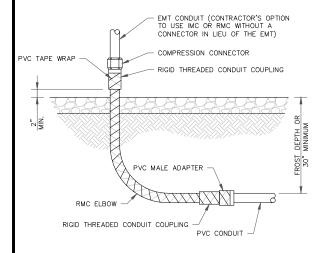
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SHEET NUMBER:

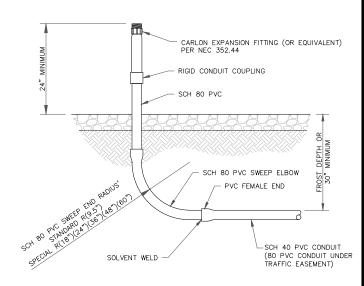
REVISION:

1 |

ALL METAL CONDUIT INSTALLED IN DIRECT CONTACT WITH THE EARTH SHALL BE CONSIDERED TO BE INSTALLED IN A SEVERELY CORROSIVE ENVIRONMENT AND IS REQUIRED TO HAVE SUPPLEMENTAL PROTECTION AGAINST CORROSION (NEC ARTICLE 342.10(B) & 344.10(B)(1)). THIS PROTECTION SHALL EITHER BE AN APPROVED MANUFACTURER INSTALLED PROTECTIVE COATING ON THE CONDUIT OR SHALL BE (2) LAYERS OF 10 MIL PVC PIPE WRAP TAPE INSTALLED USING OPPOSING SPIRAL WRAPS. ON VERTICAL PIPE THE OUTSIDE LAYER OF TAPE SHALL BE WRAPPED SO AS TO PROVIDE SHEDDING OF WATER (i.e. TAPE SHOULD WRAP IN AN UPWARD DIRECTION WITH LOWER WRAP BEING BENEATH THE WRAP ABOVE). SPIRAL WRAPS SHALL HAVE A MINIMUM OF 1/4" OVERLAP WITH THE PRECEDING TAPE WRAP, ANY OTHER METHODS OF CORROSION PROTECTION SHALL REQUIRE APPROVAL BY THE ENGINEER OF RECORD PRIOR TO BEING USED.



LEAN CONCRETE, RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND



CONDUIT STUB UP DETAILS SCALE: NOT TO SCALE

NOT USED

SCALE: NOT TO SCALE

verizon

VERIZON SITE NUMBER: 5000025228

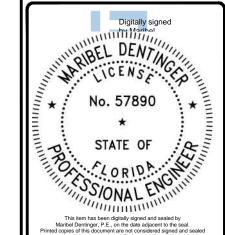
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This item has been digitally signed and sealed by Maribel Dentinger, P.E., on the date adjacent to the seal. de copies of this focument are not considered signed and sealed and the signature must be verified on any electronic copies. Maribel Dentinger, P.E. Professional Engineer License: #57890

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COA #28970

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REVISION:

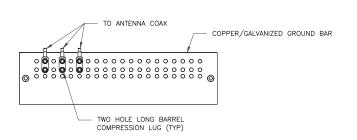
FINISHED GRADE, OR -GROUND COVER MATCH SLOPE AND THICKNESS OF EXISTING - CAUTION TAPE UNDISTURBED SOIL -COMPACTED BACKFILL WITH SATISFACTORY NATIVE OR IMPORTED SOIL TO 95% PROCTOR COMPACTED SAND (SEE NOTE 1) - 1" SCH 40 POWER CONDUITS CONDUIT WITH PULL STRING 0 2" SCH 40 PVC AUXILIARY POWER CONDUIT WITH PULL STRING - 1" SCH 40 PVC ALARM CONDUIT WITH PULL STRING

> TRENCH DETAIL SCALE: NOT TO SCALE

NOT USED (4) SCALE: NOT TO SCALE

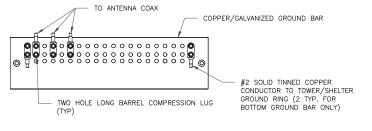
12"

24" MIN.



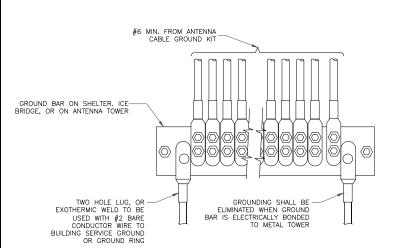
- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

ANTENNA SECTOR GROUND BAR DETAIL (1) SCALE: NOT TO SCALE

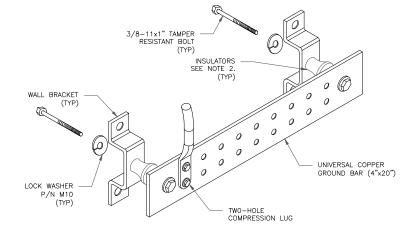


- 1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY). GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

TOWER/SHELTER GROUND BAR DETAIL 2) SCALE: NOT TO SCALE

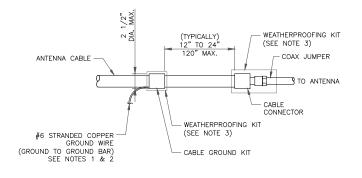


GROUNDWIRE INSTALLATION SCALE: NOT TO SCALE

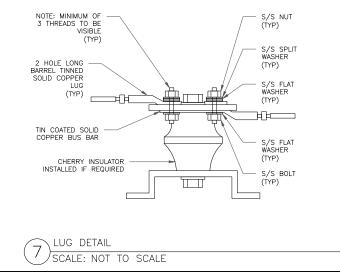


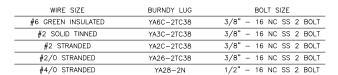
- 1. DOWN LEAD (HOME RUN) CONDUCTORS ARE <u>NOT</u> TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS—STD—10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD—WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
- 2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

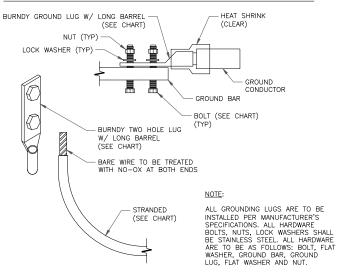
GROUND BAR DETAIL SCALE: NOT TO SCALE



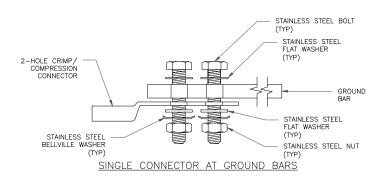
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 WEATHER PROOFING SHALL BE TWO—PART TAPE KIT, COLD SHRINK SHALL NOT BE
- CABLE GROUND KIT CONNECTION (6) SCALE: NOT TO SCALE

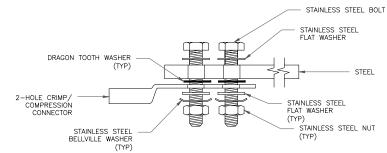




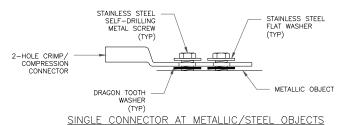


MECHANICAL LUG CONNECTION 3) SCALE: NOT TO SCALE





SINGLE CONNECTOR AT STEEL OBJECTS



HARDWARE DETAIL FOR EXTERIOR CONNECTIONS 8) SCALE: NOT TO SCALE



VERIZON SITE NUMBER: 5000025228

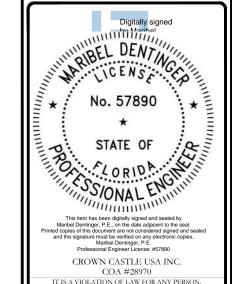
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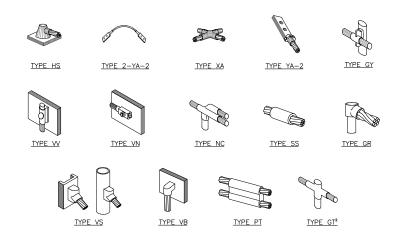
> > EXISTING 149'-2" MONOPOLE

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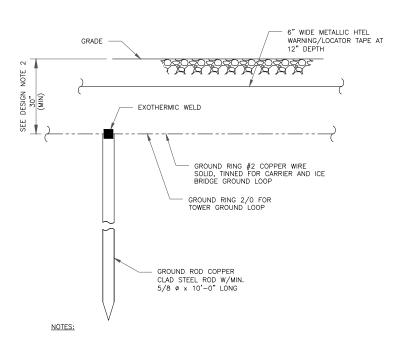
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SHEET NUMBER



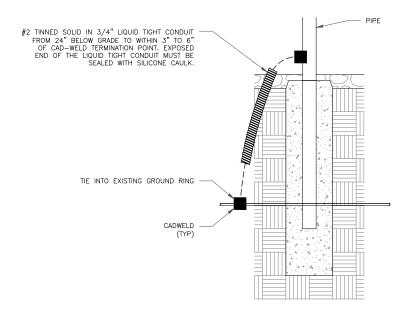
- ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
 MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.





- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
 GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

GROUND ROD DETAIL SCALE: NOT TO SCALE



TRANSITIONING GROUND DETAIL SCALE: NOT TO SCALE

verizon



VERIZON SITE NUMBER: 5000025228

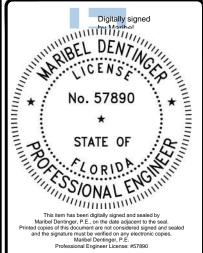
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SHEET NUMBER:

REVISION:

NOT USED SCALE: NOT TO SCALE



SOUTH > South East > Florida > Jacksonville > TMOBILE LITTLE GUM SWAMP

Molla, Liton - liton.molla@verizonwireless.com - 20241108_115830

| Project Details | | Location Information | | | |
|------------------------------|--|----------------------|-----------------------------|--|--|
| Carrier Aggregation | N | Site Id | 423133 | | |
| Ecip | N | Search Ring# | | | |
| Project Name | 5G L-SUB6 - CARRIER ADD | E-NodeB ID# | 143508 | | |
| Project Alt Name | C-BAND ACTIVATION / 1TOUCH LTE CARRIER ADD (C-BAND/LTE/CBRS/MMW CALLSIGNS) | PSLC# | 130771 | | |
| Project Id | 16276093 | Switch Name | Jacksonville | | |
| Designed Sector Carrier 4G | 15 | Tower Type | | | |
| Designed Sector Carrier 5G | 6 | Site Type | MACRO | | |
| Additional Sector Carrier 4G | 0 | Street Address | 8268 Gumswamp Road | | |
| Additional Sector Carrier 5G | 0 | City | Lake City | | |
| Suffix | | State | FL | | |
| FP Solution Type & Tech Type | MODIFICATION;5G_850;4G_850;4G_AWS; 4G_AWS3;5G_L-Sub6;4G_PCS;5G_Radio Swap | Zip Code | 32055 | | |
| | | County | Columbia | | |
| | | Latitude | 30.261106/ 30° 15' 39.982" | | |
| | | Longitude | -82.473631/ 82° 28' 25.072" | | |

Project Scope

5G L-Sub6 Densification Priority 1c
4G_850MHz, 4G_AWS1, 4G_AWS3, 4G_PCS, 5G_850MHz
Add Antennas. Add radios. Add 5G to 850
Coordinate with CE for final configuration of ground equipment, OVP boxes and fiber configuration.
11/08/2024: Updated Antennas and radios. Removed CDMA from Plumbing.

| Added A | Antenna Summary Added Antenna | | | | | | | | | | | |
|---|--------------------------------|-----|-----|-----|----|-----------|----------------|----------------|---------------|-------------------------|-----------------|---------|
| 700 850 1900 AWS AWS3 L-Sub6 Make Model | | | | | | | Model | Center line | Tip Height | Azimuth | Install Type | Quantit |
| | | | | | 5G | Ericsson | AIR6419 | 136 | 137.2 | 80(1),180(2),2 70(3) | PHYSICAL | 3 |
| LTE | 5G,LTE | LTE | LTE | LTE | | CommScope | NHH-65C-HG-R2B | 136 | 140 | 80(1),180(2),2 70(3) | PHYSICAL | 6 |

| Removed | Removed Antenna | | | | | | | | | | | | |
|---------|-----------------|------|-----|------|--------|-------------|----------------|----------------|---------------|-------------------------|-----------------|---------|--|
| 700 | 850 | 1900 | AWS | AWS3 | L-Sub6 | Make | Model | Center line | Tip Height | Azimuth | Install Type | Quantit | |
| LTE | | | | | | CSS ANTENNA | X7CQAP-665-VR0 | 136 | 139 | 80(1),180(2),2 70(3) | PHYSICAL | 6 | |

| Retained | Retained Antenna | | | | | | | | | | | |
|----------|------------------|------|-----|------|--------|------|-------|----------------|---------------|--|-----------------|---------|
| 700 | 850 | 1900 | AWS | AWS3 | L-Sub6 | Make | Model | Center line | Tip Height | | Install Type | Quantit |

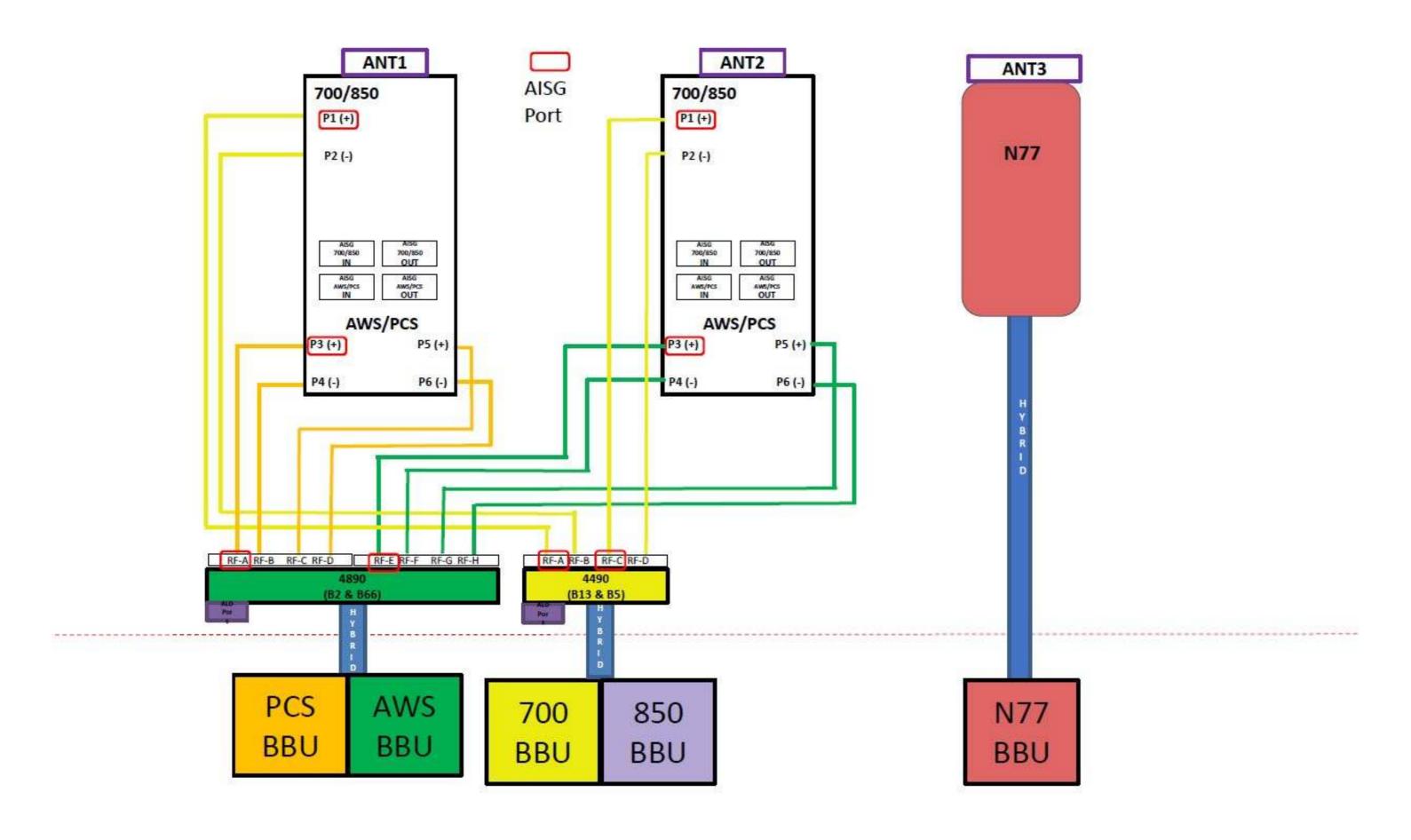
| Added: 9 | Removed: 6 | Retained: 0 |
|----------|------------|-------------|

| | Non Antenna Summary | | | | | | | | | | | | |
|-------------------|---------------------|-----|--------|------|-----|------|--------------|---------------------|-----------------|----------|--|--|--|
| Added Non A | Added Non Antenna | | | | | | | | | | | | |
| Equipment Type | Location | 700 | 850 | 1900 | AWS | AWS3 | Make | Model | Install Type | Quantity | | | |
| OVP | Tower | | | | | | | 12 OVP | PHYSICAL | 1 | | | |
| RRU | Tower | LTE | 5G,LTE | | | | Ericsson | 4490 | PHYSICAL | 3 | | | |
| RRU | Tower | | | LTE | LTE | LTE | Ericsson | 4890 | PHYSICAL | 3 | | | |
| Hybrid Cable | Tower | | | | | | Hybrid Cable | 6 x 12 Hybrid Cable | PHYSICAL | 2 | | | |

| Removed Nor | Removed Non Antenna | | | | | | | | | | | |
|-------------------|---------------------|-----|-----|------|-----|------|----------|-------------|-----------------|----------|--|--|
| Equipment Type | Location | 700 | 850 | 1900 | AWS | AWS3 | Make | Model | Install Type | Quantity | | |
| RRU | Tower | LTE | | | | | Ericsson | 2xRUL01 B13 | PHYSICAL | 6 | | |

| Retained Non | Retained Non Antenna | | | | | | | | | | | |
|-------------------|----------------------|-----|-----|------|-----|------|------|-------|-----------------|----------|--|--|
| Equipment Type | Location | 700 | 850 | 1900 | AWS | AWS3 | Make | Model | Install Type | Quantity | | |

| Added: 9 | Removed: 6 | Retained: 0 |
|----------|------------|-------------|







Colliers Engineering & Design 5141 Virginia Way, Suite 420 Brentwood, TN 37027 615.686.2527 elizabeth.myers@collierseng.com

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10274734 Colliers Engineering & Design Project #: 24944451

February 9, 2025

<u>Site Information</u> Site ID: 5000025228-VZW/TMOBILE LITTLE GUM SWAMP

Site Name: TMOBILE LITTLE GUM SWAMP

Carrier Name: Verizon Wireless

Address: 8268 Gumswamp Road

Lake City, Florida 32055

Columbia County Latitude: 30.261106°

Longitude: -82.473631°

<u>Structure Information</u>

Tower Type: 150-Ft Monopole

Mount Type: 12.50-Ft T-Arm

FUZE ID # 16276093

Analysis Results

T-Arm: 68.5% Pass w/ Modifications*

*Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.

***Contractor PMI Requirements:

Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Andy Hanes

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

| Document Type | Remarks |
|----------------------------------|--|
| Radio Frequency Data Sheet (RFD) | Verizon RFDS, Site ID: 423133, dated November 8, 2024 |
| Desktop Mount Mapping Form | Colliers Engineering & Design, Project #: 21941338, dated September 3, 2021 |
| Previous Mount Analysis | Colliers Engineering & Design, Project #: 24944451, dated January 3, 2025 |
| Mount Modification Drawings | Colliers Engineering & Design, Project #: 24944451, dated February 9, 2025 |

Analysis Criteria:

| Codes and | Standards: | ANSI/TIA-222-H |
|-----------|------------|----------------|
| | | |

ASCE 7-22

| Wind Parameters: | Basic Wind Speed | (Ultimate 3-sec | Gust) V | 119 mph |
|------------------|------------------|-----------------|---------|---------|
| | | | | |

Ice Wind Speed (3-sec. Gust): N/A Design Ice Thickness: N/A Risk Category: Ш Exposure Category: В Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, Ke: 0.994

Seismic Parameters: S_S : 0.140 q S₁:

0.060 g

Wind Speed (3-sec. Gust): Maintenance Parameters: 30 mph

> Maintenance Load, Lv: 250 lbs. Maintenance Load, Lm: 500 lbs.

Analysis Software: RISA-3D (V22)

Final Loading Configuration:

The following equipment has been considered for the analysis of the mounts:

| Mount Elevation (ft) | Equipment Elevation (ft) | Quantity | Manufacturer | Model | Status | | | |
|----------------------------|--------------------------------|----------|--------------|------------------|--------|-----------|----------------|--|
| 135.50 | 136.00 | 3 | Ericsson | AIR6419 | | | | |
| | | | - | | 6 | Commscope | NHH-65C-HG-R2B | |
| | | 3 | Ericsson | 4490 | Added | | | |
| | | 3 | Ericsson | 4890 | | | | |
| | | 1 | Raycap | RHSDC-6627-PF-48 | | | | |

It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

| Model Number | Ports | AKA |
|------------------|-------|--------|
| RC3DC-3315-PF-48 | 6 | OVP-6 |
| RHSDC-6627-PF-48 | 12 | OVP-12 |

Standard Conditions:

- All engineering services are performed on the basis that the information provided to Colliers Engineering & Design and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
- 2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

- 3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
- 4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
- 6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:

Channel, Solid Round, Angle, Plate
 HSS (Rectangular)
 Pipe
 Threaded Rod
 Bolts
 ASTM A36 (Gr. 36)
 ASTM 500 (Gr. B-46)
 ASTM A53 (Gr. B-35)
 F1554 (Gr. 36)
 ASTM A325

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

| Component | Utilization % | Pass/Fail |
|---------------------|---------------|-----------|
| Connection Check | 68.5 % | Pass |
| Face Horizontal | 40.3 % | Pass |
| Mount Pipe | 40.2 % | Pass |
| Standoff Horizontal | 31.0 % | Pass |
| MOD Standoff | 38.5 % | Pass |

| Structure Rating – (Controlling Utilization of all Components) | 68.5% |
|--|-------|
|--|-------|

Mount Connection Envelope Reactions:

| | Elev. | L Node | Envelope Wind Reactions | | | Envelope Wind + Ice Reactions | | | | |
|----------------------------|-------------|--------|-------------------------|---------------|------------------|-------------------------------|----------------|---------------|------------------|-------------------|
| Connection Description | AGL (Ft) | | Axial (Lbs) | Lateral (Lbs) | Moment (K-Ft) | Torsion (K-Ft) | Axial (Lbs) | Lateral (Lbs) | Moment (K-Ft) | Torsion (K-Ft) |
| Bottom Standoff Connection | 135.5 | N35B | 606 | 1234 | 2.033 | 2.960 | 581 | 269 | 1.572 | 0.465 |
| Top Standoff Connection | 138.5 | N28 | 318 | 854 | 0.931 | 2.260 | 294 | 250 | 0.706 | 0.418 |

Notes:

- Axial loads act along the axis of the tower
- Lateral reactions act perpendicular to the tower
- Moment loads introduce bending moment to the tower
- Torsion loads introduce twisting moment to the tower
- Batch solutions by individual load cases are included at the end of this document

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

| Ice | Mount Pipe | s Excluded | Mount Pipes Included | | |
|-------------------|---------------------------|--------------------------|---------------------------|--------------------------|--|
| Thickness (In) | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) | |
| 0 | 13.0 | 3.6 | 19.8 | 10.5 | |
| 0.5 | 16.9 | 5.1 | 26.6 | 14.8 | |
| 1 | 20.6 | 6.1 | 33.2 | 18.7 | |

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mounts will be **SUFFICIENT** for the final loading configuration (attachment 2) after the modifications detailed in attachment 3 are successfully completed.

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

Attachments:

- 1. Contractor Required PMI Report Deliverables
- 2. Antenna Placement Diagrams
- 3. Mount Modification Drawings
- 4. Mount Photos
- 5. Desktop Mount Mapping Form (for reference only)
- 6. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com
For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000025228

SMART Project #: 10274734

Fuze Project ID: 16276093

<u>Purpose</u> – to upload the proper documentation to the SMART Tool in order to allow the SMART Tool engineering vendor to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- If installation of the modification will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the post-modification passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo shall be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is not adversely impacted by the install
 of the modification components. This may involve the install of wire rope guides, or other items
 to protect the wire rope. If there is conflict, contact the SMART Tool engineer for
 recommendations.
- The PMI can be accessed at the following portal: https://pmi.vzwsmart.com

Photo Requirements:

- Photos taken at ground level
 - o Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation of the modifications.
 - Photos of the mount after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

Photos taken at Mount Elevation

- Photos showing the safety climb wire rope above and below the mount prior to modification.
- Photos showing the climbing facility and safety climb if present.

- Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.
 - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.
- Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
- Photos showing the installed modifications onto the tower (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, an elevation measurement shall be provided before the elevation change.

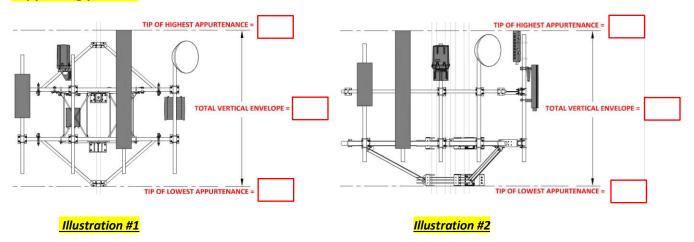
Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by the SMART Tool vendor.
 - If the materials are as specified on the drawings
 - The contractor shall provide the packing list, or the materials certifications for the materials utilized to perform the mount modification
 - Commscope, Metrosite, Perfect Vision, Sabre, and Site Pro have all agreed to support Verizon vendors with the necessary material certifications
 - o If seeking permission to use an equivalent
 - It is required that the SMART Tool engineering vendor approval of such is included in the contractor submission package. There may be an additional charge for approval if the equivalent submission doesn't meet specifications as prescribed in the drawings.

| prescribed in the drawings. | |
|--|---|
| \square All hardware has been properly installed, and the existing hardware was inspected. | |
| ☐ The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials | |
| OR | |
| \Box The material utilized was approved by a SMART Tool engineering vendor as an "equivalent" and this approval is included as part of the contractor submission. | 5 |
| Antenna & Equipment Placement and Geometry Confirmation: | |
| ☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided. | |

| \Box The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations. |
|---|
| Comments: |
| |
| Was the mount modification completed in conjunction with the equipment change / installation? |
| □ Yes □ No |
| Special Instructions / Validation as required from the MA or Mod Drawings: |
| Issue: |
| Contractor shall install the proposed OVP on the proposed OVP pipe in alpha sector. Refer to Mount Modification Drawings. |
| Response: |
| nesponse. |
| Special Instruction Confirmation: |
| \square The contractor has read and acknowledges the above special instructions. |
| Comments: |
| |
| Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work: |
| □ Yes □ No |
| Contractor certifies no new damage created during the current installation: |
| □ Yes □ No |
| Contractor to certify the condition of the safety climb and verify no damage when leaving the site: |
| ☐ Safety Climb in Good Condition ☐ Safety Climb Damaged |
| Comments: |
| |

Contractor to provide measurement from top of the highest equipment/steel to the bottom of the lowest equipment/steel by documenting it using the most appropriate illustration below along with supporting photos:



Certifying Individual:

| Company: | |
|----------------|--|
| Employee Name: | |
| Contact Phone: | |
| Email: | |
| Date: | |

verizon

MOUNT MODIFICATION DRAWINGS EXISTING 12.50' T-ARM

TOWER OWNER: CROWN CASTLE TOWER OWNER SITE NUMBER: 825403

CARRIER SITE NAME: TMOBILE LITTLE GUM SWAMP CARRIER SITE NUMBER: 5000025228 FUZE ID: 16276093

> 8268 GUMSWAMP ROAD LAKE CITY, FL 32055 COLUMBIA COUNTY

LATITUDE: 30.261106° N LONGITUDE: 72.473631° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 119 MPH EXPOSURE CATEGORY B TOPOGRAPHIC CATEGORY: I TOPOGRAPHIC CONSIDERED: N/A TOPOGRAPHIC METHOD: N/A MEAN BASE ELEVATION (AMSL) = 153.74'

CE LOADS

ICE WIND SPEED (3 SECOND GUST), V = N/A MPH ICE THICKNESS = N/A IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B SHORT TERM MCER GROUND MOTION, $S_{\rm S}$ = .140 LONG TERM MCER GROUND MOTION, $S_{\rm I}$ = .060

APPLICANT/LESSEE COMPANY: VERIZON WIRELESS CLIENT REPRESENTATIVE COMPANY: VERIZON WIRELESS PROJECT MANAGER COMPANY: COLLIERS ENGINEERING & DESIGN

PROJECT INFORMATION

COMPANY: COLLIERS ENGINEERING & DESIGN
CONTACT: ELIZABETH MYERS
PHONE: 856.797.0412
E-MAIL: ELIZABETH.MYERS@COLLIERSENG.COM

| | CONTRACTOR PMI REQUIREMENTS |
|---------------|-----------------------------|
| PMI LOCATION: | HTTPS://PMI.VZWSMART.COM |

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SMART TOOL PROJECT #: 10274734 VZW MDG #: 5000025228 ANALYSIS DATE: 2/9/2025 ST-I TITLE SHEET

SBOM-I BILL OF MATERIALS

SGN-I GENERAL NOTES

SCF-I CLIMBING FACILITY DETAIL

SS-I MODIFICATION DETAILS

SS-2 MOUNT PHOTOS

SS-3 GEOMETRY VERIFICATION SKETCHES

SPECIFICATION SHEETS

SHEET INDEX

SHEET DESCRIPTION

Colliers Engineering Doing Business as MASER verizon REV DATE DESCRIPTION

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SITE NAME: TMOBILE LITTLE GUM SWAMP 5000025228

8268 GUMSWAMP ROAD LAKE CITY, FL 32055 COLUMBIA COUNTY

Engineering & Design NASHVILLE
5141 Virginia Way,
Suite 420
Brentwood, TN 3702
Phone: 615.686.257.
COLLERS ENGINERING & DESIG

TITLE SHEET

21-1

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BILL OF MATERIALS

| | | | SEG | CTION I - VZWSMART KITS | | |
|----------|----------------|----------------------|--|--|--------------------|--------------|
| QUANTITY | MANUFACTURER | PART NUMBER | DESCRIPTION | NOTES | UNIT WEIGHT (LBS.) | WEIGHT (LBS. |
| 9 | | VZWSMART-MSK2 | CROSSOVER PLATE | | 15 | 135 |
| 1 | | VZWSMART-MSK6 | BACK TO BACK CROSSOVER PLATE | | 34 | 34 |
| 3 | - | VZWSMART-SFK4 | T-ARM KIT | CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. | 106 | 318 |
| 1 | | VZWSMART-PLK7 | MONOPOLE COLLAR MOUNT ASSEMBLY | | 150 | 150 |
| 3 | VZWSMART | VZWSMART-P40-312X150 | 150" LONG, PIPE 3 SCH40 (3.5"OD X 0.216" THK) | | 114 | 342 |
| I | | VZWSMART-P40-238X048 | 48" LONG, PIPE 2 SCH40 (2.375"OD X 0.154" THK) | | 15 | 15 |
| | _ | | | | | |
| | | | | | | |
| | | | SECTIO | DN 2 - OTHER REQUIRED PARTS | | |
| QUANTITY | MANUFACTURER | PART NUMBER | DESCRIPTION | NOTES | UNIT WEIGHT (LBS.) | WEIGHT (LBS |
| | | | | | , , | ` |
| | | | | | | |
| | | | | | | |
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| | | | | | | |
| | 1 | | SECTION 3 | 3 - REQUIRED SAFETY CLIMB PARTS | 1 | |
| QUANTITY | MANUFACTURER | PART NUMBER | DESCRIPTION | NOTES | UNIT WEIGHT (LBS.) | WEIGHT (LB |
| I | PERFECT VISON | H42-0501-06 | STANDOFF CLAMP BRACKET | OR EOR APPROVED EQUIVALENT | - | - |
| 1 | PERFECT VISION | PV-CMX-CG-BO | WIRE ROPE GUIDE | OR EOR APPROVED EQUIVALENT | - | - |
| | | - | | | TOTAL: | 994 |

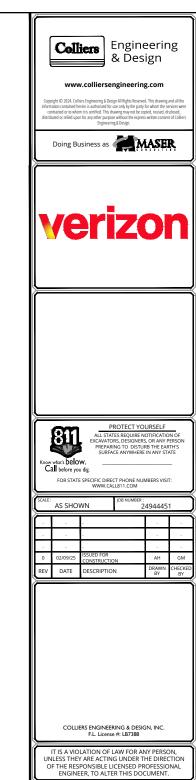
NOTES:

- THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
- 2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

VZWSMART KITS - APPROVED VENDORS

| | COMMSCOPE | | PERFECTVISION | |
|----------------------------------|--|------------------------|----------------------------------|--|
| CONTACT | SALVADOR ANGUIANO | CONTACT | WIRELESS SALES | |
| PHONE | (817) 304-7492 | PHONE | (844) 887-6723 | |
| EMAIL | SALVADOR.ANGUIANO@COMMSCOPE.COM | EMAIL | WWW.PERFECT-VISION.COM | |
| WEBSITE | WWW.COMMSCOPE.COM | WEBSITE | WIRELESSSALES@PERFECT-VISION.COM | |
| METROSITE FABRICATORS, LLC | | SABRE INDUSTRIES, INC. | | |
| CONTACT | KENT RAMEY | CONTACT | ANGIE WELCH | |
| PHONE | (706) 335-7045 (O), (706) 982-9788 (M) | PHONE | (866) 428-6937 | |
| EMAIL KENT@METROSITELLC.COM | | EMAIL | AKWELCH@SABREINDUSTRIES.COM | |
| WEBSITE METROSITEFABRICATORS.COM | | WEBSITE | www.sabresitesolutions.com | |
| • | | | | |

| ١ | SITE PRO 1 | | | |
|---|------------|---------------------------|--|--|
| ٦ | CONTACT | PAULA BOSWELL | | |
| ٦ | PHONE | (972) 236-9843 | | |
| ٦ | EMAIL | PAULA.BOSWELL@VALMONT.COM | | |
| ٦ | WEBSITE | WWW.SITEPRO I.COM | | |
| | | | | |



SITE NAME:

TMOBILE LITTLE GUM SWAMP 5000025228

8268 GUMSWAMP ROAD LAKE CITY, FL 32055 COLUMBIA COUNTY



BILL OF MATERIALS

SBOM-I

GENERAL NOTES

- I. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES, ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK ORDERING MATERIAL AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS. OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- 5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES,
- ALL CONSTRUCTION MEANS AND METHODS: INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES
- . WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION, CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
- ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
- 10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- II. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR, SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- 12. DO NOT SCALE DRAWINGS.
- 13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- 14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER
- 15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF

STRUCTURAL STEEL

- I. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
- a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
- b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490
- c. AISC CODE OF STANDARD PRACTICE
- 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 36) STEEL PIPE ASTM A53 (GR 35) ASTM A325 NUTS ASTM A563

LOCKING STRUCTURAL GRADE LOCK WASHERS

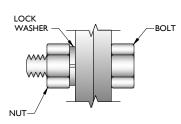
- 3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER, CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- 4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - a. SUBMIT SHOP DRAWINGS TO

ELIZABETH.MYERS@COLLIERSENG.COM

- b. PROVIDE COLLIERS ENGINEERING & DESIGN PROJECT # AND COLLIERS ENGINEERING & DESIGN PROJECT ENGINEER CONTACT IN THE BODY
- 5 DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- 6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- 7. ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY
- 8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- 9 WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- 10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
- 11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- 12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- 13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- 14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY ZINC COTE, OR EOR APPROVED EQUAL, AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE)
- 15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER, STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

| | BOLT SCHEDULE (IN.) | | | | | |
|------------------|---------------------|-----------------|-----------------------|---------|--|--|
| BOLT DIAMETER | STANDARD HOLE | SHORT SLOT | MIN. EDGE DISTANCE | SPACING | | |
| 1/2 | 9/16 | 9/16 x 11/16 | 7/8 | 1 1/2 | | |
| 5/8 | 11/16 | 11/16 x 7/8 | 1 1/8 | I 7/8 | | |
| 3/4 | 13/16 | 13/16 x 1 | 1 1/4 | 2 1/4 | | |
| 7/8 | 15/16 | 15/16 x 1 1/8 | 1 1/2 | 2 5/8 | | |
| I | 1 1/16 | 1 1/16 x 1 5/16 | I 3/4 | 3 | | |

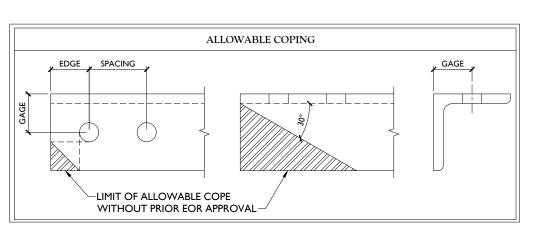
| WORKABLE GAGES (IN.) | | | |
|----------------------|-------|--|--|
| LEG | GAGE | | |
| 4 | 2 1/2 | | |
| 3 1/2 | 2 | | |
| 3 | I 3/4 | | |
| 2 1/2 | I 3/8 | | |
| 2 | I I/8 | | |



TYP. BOLT ASSEMBLY

- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIFI D AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- 2 THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL **DIMENSIONS OF PROPOSED MEMBERS** WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
- 3 SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE **DRAWINGS**
- 4. MATCH EXISTING GAGES WHEN APPLICABLE. UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.





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REV DATE DESCRIPTION

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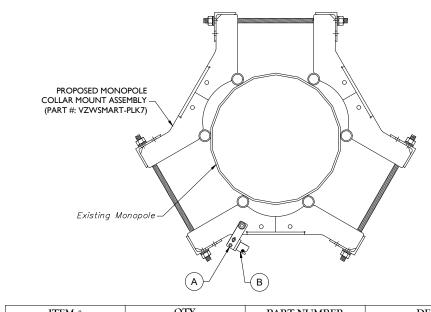
SITE NAME:

TMOBILE LITTLE GUM SWAMP 5000025228

8268 GUMSWAMP ROAD LAKE CITY, FL 32055 **COLUMBIA COUNTY**

GENERAL NOTES

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTIO



-Existing Climbing Facility

ALPHA SECTOR

| ITEM # | QTY | PART NUMBER | DESCRIPTIONS |
|--------|-----|--------------|---|
| А | I | H42-0501-06 | STANDOFF CLAMP BRACKET (PERFECT VISION OR EOR APPROVED EQ.) |
| В | I | PV-CMX-CG-BO | WIRE ROPE GUIDE (PERFECT VISION OR EOR APPROVED EQ.) |

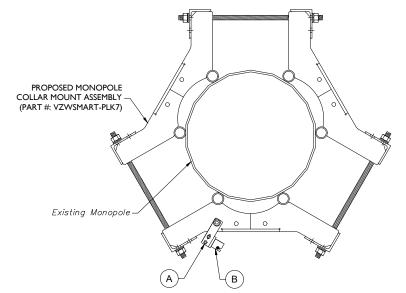
PROPOSED WIRE ROPE GUIDE ATTACHMENT - PLAN VIEW

SCALE: N.T.S.

NOTE: CONTRACTOR SHALL ENSURE THAT WIRE ROPE GUIDE DOES NOT PUSH THE WIRE ROPE OUTSIDE OF THE VERTICAL PLANE OF THE SAFETY CLIMB. CONTRACT EOR WITH PHOTOS OF SAFETY CLIMB AND COLLAR FOR FURTHER DIRECTION IF NEEDED.



CLIMBING FACILITY PHOTO



| BETA SE | CTOR | |
|---------|------|--|

GAMMA SECTOR

CLIMBING FACILITY LOCATION SCALE: N.T.S.

STRUCTURAL NOTES:

- I. CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION AND THAT THE WIRE ROPE DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE GUIDED AROUND MOUNT CONNECTIONS AS NEEDED.
- 2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



8268 GUMSWAMP ROAD

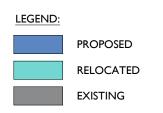
LAKE CITY, FL 32055 COLUMBIA COUNTY

CLIMBING FACILITY DETAIL

SCF-I

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TOTAL VERTICAL ENVELOPE:

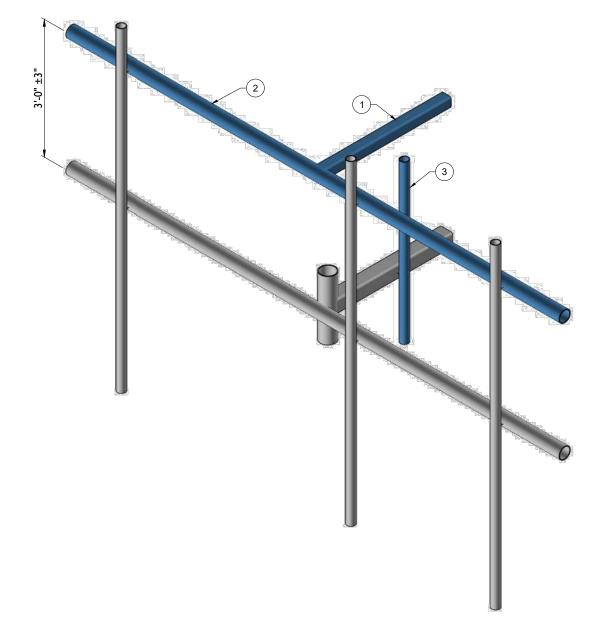
CONTRACTOR SHALL VERIFY AND CONFIRM IN FIELD THAT VERIZON'S OVERALL TIP TO TIP VERTICAL SPACE CONFIGURATION (EQUIPMENT AND STEEL COMBINED) DOES NOT EXCEED THE VERTICAL ENVELOPE LISTED IN THESE DRAWINGS. IF THE SITE'S EXISTING OR PROPOSED CONFIGURATION EXCEEDS THE ALLOWED VERTICAL ENVELOPE LISTED IN THESE DRAWINGS, CONTRACTOR SHALL CONTACT EOR IMMEDIATELY FOR A SOLUTION ON HOW TO CORRECT THE ISSUE PRIOR TO LEAVING THE SITE.

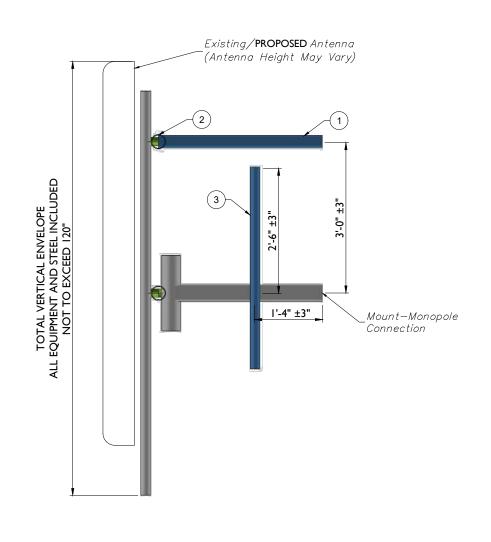
| | MOUNT MODIFICATION SCHEDULE | | | | | | |
|-----|-----------------------------|---|--|---|--|--|--|
| NO. | ELEVATION | QUANTITY | DESCRIPTION | NOTES | | | |
| ı | | 3 | PROPOSED T-ARM KIT (PART #: VZWSMART-SFK4) | CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-I. CONNECT OTHER END OF T-ARM KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7). SEE GENERAL NOTE B. | | | |
| 2 | 135'-6" | 3 PROPOSED 150" LONG, PIPE 3 SCH40 (PART #: VZWSMART-P40-312X150) | | RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONNECT NEW HORIZONTAL TO ALL VERTICAL MOUNT PIPES WITH PROPOSED CROSSOVER PLATES (VZWSMART-MSK2). | | | |
| 3 | | I | | CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK6). ALPHA SECTOR ONLY. | | | |

GENERAL NOTES:

A. CONTRACTOR SHALL VERIFY THAT NEW & EXISTING STEEL IS FREE OF CORROSION. VISIBLE MINOR CORROSION SHALL BE WIRE BRUSHED CLEAN AND TREATED WITH ZINGA OR ZINC KOTE. REPORT ANY

C. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.





PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)

B. THREADED ROD FROM PROPOSED KITS SHALL BE TRIMMED TO EXTEND NO MORE THAN 3" BEYOND THE LOCK NUT. TREAT ALL CUT ENDS WITH ZINGA OR ZINC KOTE.

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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME: TMOBILE LITTLE GUM

SWAMP 5000025228

8268 GUMSWAMP ROAD LAKE CITY, FL 32055 COLUMBIA COUNTY

MODIFICATION DETAILS

SS-I

SCALE: N.T.S.

PROPOSED ISOMETRIC VIEW (TYP. ALL SECTORS)

SCALE: N.T.S.



MOUNT PHOTO 1



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FOR STATE SPECIFIC DIRECT PHONE NUMBER

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SITE NAME:

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8268 GUMSWAMP ROAD LAKE CITY, FL 32055 COLUMBIA COUNTY



NASHVILLE 5141 Virginia Way, Suite 420 Brentwood, TN 37027 Phone: 615.686.2575 LLIERS ENGINEERING & DESIGN,

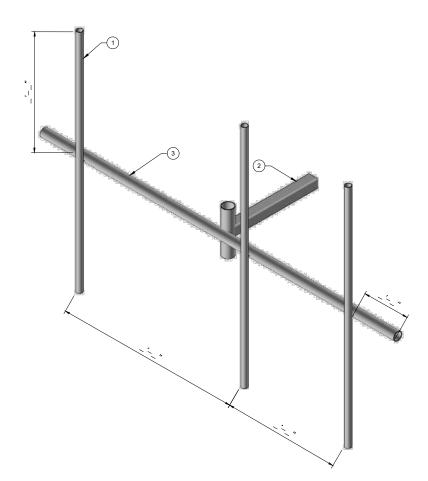
MOUNT PHOTOS

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SS-2

| EXISTING MEMBERS | | | | | |
|------------------|---------------------|-------|--------|-------------------------|--|
| NO. | DESCRIPTION | SHAPE | LENGTH | NOTES | |
| I. | MOUNT PIPE | | | TYP. OF 9, 3 PER SECTOR | |
| 2. | STANDOFF HORIZONTAL | | | TYP. OF 3, I PER SECTOR | |
| 3. | FACE HORIZONTAL | | | TYP. OF 3, I PER SECTOR | |

LIST ALL SHAPES:
ANGLE (LEG1xLEG2xTH.): EX. L2x2x1/4
CHANNEL (DEPTHxFLANGE WIDTH): EX. CH6"x1-7/8"
PIPE (ODxTH.): EX. PIPE 2.4"x0.12"
PLATE (TH.xDEPTH): EX. PLATE 1/2"x2"



EXISTING MOUNT GEOMETRY VERIFICATION ISOMETRIC VIEW

SCALE: N.T.S.

NOTE:

CONTRACTOR SHALL RECORD ALL DIMENSIONS AND MEMBER SIZES SHOWN IN THIS SKETCH. **DOCUMENT VIA PHOTOS AND SKETCHES AND** PROVIDE TO THE EOR FOR EVALUATION.







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SITE NAME:

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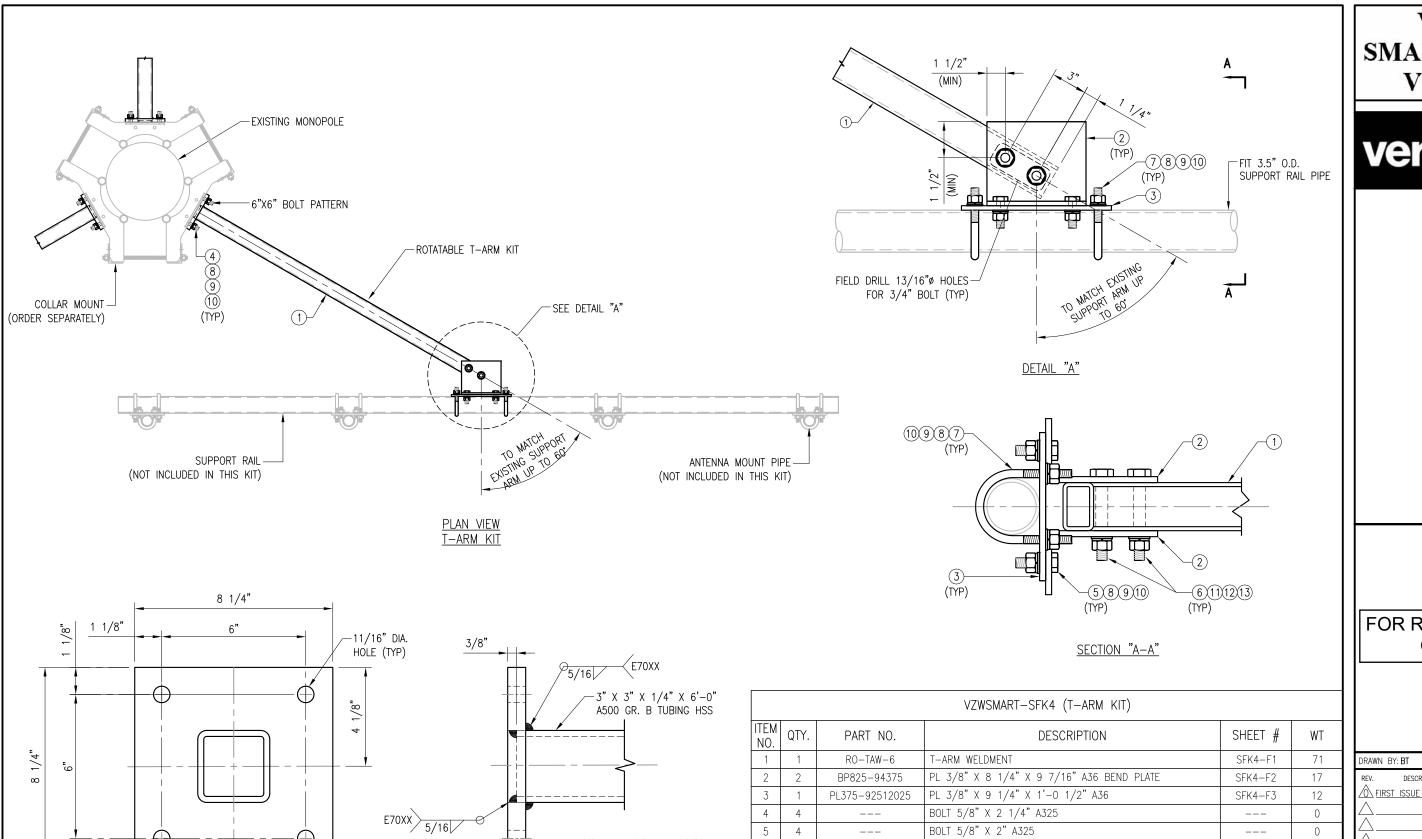


VERIFICATION SKETCHES

SS-3

_Existing ___"ø Bolt (Typ. of __) Existing Standoff Horizontal (Typ.)

MOUNT CONNECTION DETAIL SCALE: N.T.S.



-PL 3/4" X 8 1/4" X 8 1/4" A572

SIDE VIEW

4 1/8"

1. HOT-DIPPED GALVANIZED PER ASTM A123.

FRONT VIEW

RO-TAW-6 WELDMENT

4

12

12

12

2

2

8

9

10

11

12

13

FW-625

LW-625

NUT-625

FW-75

LW-75

NUT-75

BOLT 5/8" X 2" A325

BOLT 3/4" X 5 1/4" A325

2 MS02-625-3625-600 RU-BOLT 5/8" X 3 5/8" I.W. X 6" I.L. A36 (OR EQUIV.)

5/8" HDG USS FLAT WASHER

3/4" HDG USS FLAT WASHER

5/8" HDG LOCK WASHER

3/4" HDG LOCK WASHER

5/8" HDG HEX NUT

3/4" HDG HEX NUT

VzW**SMART Tool**[©] Vendor

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FOR REFERENCE **ONLY**

| DRAWN BY: BT | CHECKED BY: HMA/KW | | | | |
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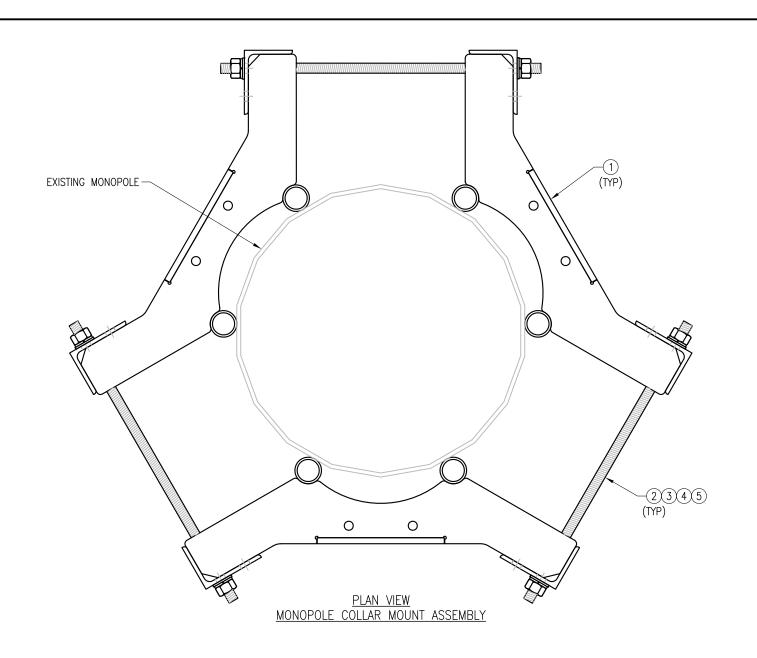
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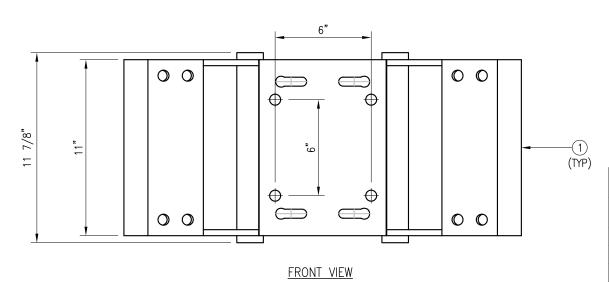
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GALVANIZED WT

T-ARM KIT

SHEET NUMBER: REV #: VZWSMART-SFK4





| VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY) | | | | | | | | | |
|--|------|----------|-----------------------------------|---------|-----|--|--|--|--|
| ITEM NO. | QTY. | PART NO. | DESCRIPTION | SHEET # | WT | | | | |
| 1 | 3 | CM-1245 | COLLAR MOUNT ASSEMBLY | PLK7-F1 | 147 | | | | |
| 2 | 6 | | THREADED ROD 5/8" X 4'-0" A193-B7 | | | | | | |
| 3 | 12 | FW-625 | 5/8" HDG USS FLAT WASHER | | 1 | | | | |
| 4 | 12 | LW-625 | 5/8" HDG LOCK WASHER | | 0 | | | | |
| 5 | 12 | NUT-625 | 5/8" HDG HEX NUT | | 1 | | | | |
| GALVANIZED WT | | | | | 150 | | | | |

VzW $SMART\ Tool^{\tiny{\textcircled{\tiny C}}}$ Vendor

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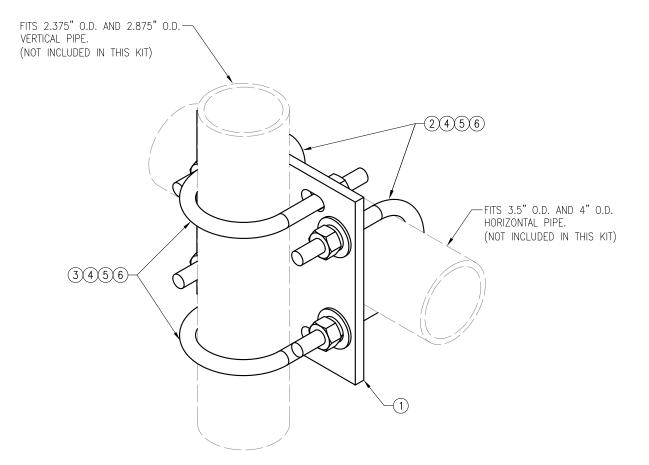
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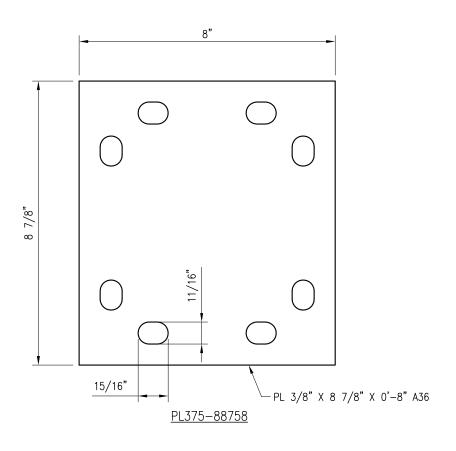
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VZWSMART-PLK7 MONOPOLE COLLAR MOUNT ASSEMBLY

SHEET NUMBER: REV #: VZWSMART-PLK7

1. FIT 12" TO 45" DIA MONOPOLE. 2. HOT-DIPPED GALVANIZED PER ASTM A123.





| VZWSMART-MSK2 (CROSSOVER PLATE) | | | | | | | | | | |
|---------------------------------|------|-------------------|--|------------|----|--|--|--|--|--|
| ITEM NO. | QTY. | PART NO. | DESCRIPTION | SHEET # | WT | | | | | |
| 1 | 1 | PL375-88758 | PL 3/8" X 8 3/4" X 0'-8" A36 | MSK2-F1 | 8 | | | | | |
| 2 | 2 | MS02-625-4125-600 | RU-BOLT 5/8" X 4 1/8" I.W. X 6" I.L. A36 (OR EQUIV.) | RBC-1 | 3 | | | | | |
| 3 | 2 | MS02-625-300-500 | RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.) | RBC-1 | 3 | | | | | |
| 4 | 8 | FW-625 | 5/8" HDG USS FLAT WASHER | | 1 | | | | | |
| 5 | 8 | LW-625 | 5/8" HDG LOCK WASHER | | 0 | | | | | |
| 6 | 8 | NUT-625 | 5/8" HDG HEX NUT | | 1 | | | | | |
| | | | GAL | VANIZED WT | 15 | | | | | |

VzW SMART Tool[©] Vendor

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FOR REFERENCE ONLY

DRAWN BY: H.R CHECKED BY: HMA

REV. DESCRIPTION BY DATE

OF IRST ISSUE H.R 05/08/20

SHEET TITLE:

VZWSMART-MSK2

CROSSOVER PLATE

SHEET NUMBER: REV #:

VZWSMART-MSK2

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

FIT UP TO 6" X 6" TUBE (NOT INCLUDED IN THIS KIT) FIT UP TO 6" X 6" TUBE (NOT (TYP) 4 5 6 7 (TYP) 3 4 5 6 (TYP)

ISOMETRIC VIEW

BACK TO BACK CROSSOVER

VZWSMART-MSK6 (VZWSMART-MSK6 - BACK TO BACK CROSSOVER) ITEM NO. QTY. PART NO. DESCRIPTION SHEET # WT PL 3/8" X 8 1/2" X 1'-0" A36 PL375-8512 MSK6-F2 20.7 PL 1/2" X 2" X 8 5/8" A36 BENT PLATE 2 4 VCP MSK6-F1 9.6 3 4 THREADED ROD 5/8" DIA. X 10" F1554-36 HDG ___ ___ 16 5/8" HDG HEX NUT 4 NUT-625 ____ 2 5/8" HDG USS FLAT WASHER 16 FW-625 ___ 6 16 LW-625 5/8" HDG LOCK WASHER 0 BOLT 5/8" X 6" SAE GRADE 5 ALL THREAD 8 34 GALVANIZED WT

NOTES:

1. HOT-DIPPED GALVANIZED PER ASTM A123.

VzW SMART Tool[©] Vendor

verizon

FOR REFERENCE ONLY

DRAWN BY: SK CHECKED BY: BT/KW

REV. DESCRIPTION BY DATE

SK 05/08/20

SHEET TITLE:

VZWSMART-MSK6

BACK TO BACK

CROSSOVER

SHEET NUMBER: REV #:

VZWSMART-MSK6