

T-MOBILE SITE NUMBER: 9JK2338S

WILBURN T-MOBILE SITE NAME:

SELF-SUPPORT TOWER

240'-0" **TOWER HEIGHT:**

BUSINESS UNIT #: 877744

LOCATION MAP

703 NE HARRINGTON CT **SITE ADDRESS:** LAKE CITY, FL 32055

COUNTY: COLUMBIA

COLUMBIA COUNTY JURISDICTION:

SITE ID: 9JK2338S

30° 13′ 46.60″ (30.229611°) N

-82° 33' 5.20" (-82.551444°) W

T-MOBILE EXCALIBUR ERICSSON SWAP

SITE INFORMATION

CROWN CASTLE USA INC.

SITE TYPE:

SITE ADDRESS:

703 NE HARRINGTON CT LAKE CITY, FL 32055

COUNTY: COLUMBIA MAP/PARCEL#:

AREA OF CONSTRUCTION: EXISTING 30° 13' 46.60" (30.229611°) N LATITUDE -82° 33' 5.20" (-82.551444°) W

LONGITUDE LAT/LONG TYPE: NAD83 GROUND ELEVATION: CURRENT ZONING: TBD

COLUMBIA COUNTY IURISDICTION

OCCUPANCY CLASSIFICATION: II TYPE OF CONSTRUCTION:

A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR

PROPERTY OWNER:

TOWER OWNER: CROWN CASTLE USA INC.

2000 CORPORATE DRIVE CANONSBURG, PA 15317

CARRIER/APPLICANT:

7025 AC SKINNER PARKWAY JACKSONVILLE, FL 32256

TBD ELECTRIC PROVIDER

TELCO PROVIDER: TBD

DRAWING INDEX SHEET # SHEET DESCRIPTION TITLE SHEET T-1 GENERAL NOTES T-2 EXISTING SITE PLAN C-1.1 EXISTING & FINAL EQUIPMENT PLANS C-2 FINAL ELEVATION & ANTENNA PLANS EQUIPMENT SCHEDULES & DETAILS C-3 EQUIPMENT SPECIFICATIONS C-4 EQUIPMENT SPECIFICATIONS EQUIPMENT SPECIFICATIONS C-6 GROUNDING DETAILS G-1 G-2 GROUNDING DETAILS ATTACHED MOUNT SPECIFICATIONS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 22X34. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTIN DIMENSIONS AND CONDITIONS ON THE IOB 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 (800) 432-4770 CALL 3 WORKING DAYS



PROJECT TEAM

INFINIGY ENGINEERING A&E FIRM: 1211 SR 436, SUITE 101 CASSELBERRY, FL 32707

OFFICE #: (407) 278-6750

CROWN CASTLE USA INC. DISTRICT

2000 CORPORATE DRIVE CANONSBURG, PA 1531

SUSAN PALM - A&E SPECIALIST susan nalm@crowncastle.com

(205) 909-2049

KEVIN DEPATIE - PROJECT MANAGER Kevin.DePatie@crowncastle.com

(813) 342-3888

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

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 (4) PANEL ANTENNAS
- REMOVE (8) RRHs
- REMOVE (4) FILTERS
- REMOVE (1) HYBRID CABLE
- REMOVE (3) COAX CABLES
- INSTALL (6) PANEL ANTENNAS
- INSTALL (6) RRHs
- INSTALL (3) 1-5/8" HYBRID CABLES

GROUND SCOPE OF WORK:

- REMOVE (1) PPC CABINET • REMOVE (2) EQUIPMENT CABINETS
- INSTALL (2) EQUIPMENT CABINETS EMERGENCY NOTE:

NO EQUIPMENT PROPOSED WITHIN THE PROJECT SCOPE SHALL BE USED FOR EMĚRGENCY RESPONSE

NO NEW AC ELECTRICAL WORK IS CAPTURED WITHIN THIS PROJECT SCOPE. ALL ELECTRICAL UPGRADES AND OR WORK WILL BE HANDLED BY THE GENERAL CONTRACTOR AND PERFORMED IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL REQUIREMENTS.

APPLICABLE CODES/REFERENCE **DOCUMENTS**

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES CODE TYPE

MECHANICAL ELECTRICAL

2020 FLORIDA BUILDING CODE 7TH EDITION/2018 IBC 2020 FLORIDA BUILDING CODE 7TH EDITION/2018 IMC 2020 FLORIDA BUILDING CODE 7TH EDITION/2017 NEC

APPLICABLE CODES: TIA-222-H / ASCE 7-16 WIND SPEED: V = 124 MPH (ULTIMATE 3 SECOND GUST)

WIND SPEED: EXPOSURE CATEGORY:

RISK CATEGORY: II OPOGRAPHIC CATEGORY: 1 CREST HEIGHT: N/A

SEISMIC RESPONSE: N/A

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: BY OTHERS DATED:

MOUNT ANALYSIS: TRYLON DATED: 05/25/2021

AC ELECTRICAL POWER DESIGN: BY OTHERS DATED:

> ORDER ID: 566065 RFDS REVISION: N/A REVISION: DATED: N/A

NO SCALE



ANY CHÂNGES AND MODIFICATIONS THEY MAY IMPOSE

APPROVALS

1211 SR 436, SUITE 101 CASSELBERRY, FL 32707 OFFICE #:407-278-6750 2039-Z5555-C

2000 CORPORATE DRIVE CANONSBURG PA 1531

CROWN

T-MOBILE SITE NUMBER: 9JK2338S

> BU #: 877744 **WILBURN**

703 NE HARRINGTON CT LAKE CITY, FL 32055

EXISTING 240'-0" SELF-SUPPORT TOWER

	ISSUED FOR:									
REV	DATE	DRWN	DESCRIPTION	DES./QA						
Α	06/01/21	RCD	PRELIMINARY	PHR						
0	06/24/21	RCD	ISSUED FOR CONSTRUCION	PHR						



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:

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER, PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CRO CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
- "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 FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LUMITED 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 JURISDICTIONAL REQUIREMENTS.
- 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 ANS/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; 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 IN CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
- ALL SITE WORK TO COMPLY WITH DAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA UPPORTING STRUCTURES AND ANTENNAS."
- 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, REGULATIONS 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.
- RECOMMENDATIONS VINLESS 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.
- 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.,
- 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
- 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 FOLLIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
- 18. 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
- 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 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: T—MOBILE
TOWER OWNER: CROWN CASTLE USA 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 ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT (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
- THESE DAMMINGS HEARDENI ITERIOREUS INSCOURCE. HE DO NOT INDICATE ITEM WARNS ON MEMANS OF WOOTH OF THE CONTRACTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL BROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORWORK, SHORING, ETC. SITESTS BY THE ERIOMEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE
- ONE: 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 SMILLAR 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 CLARIFOCATION IS REQUIRED CONTACT HE 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 OF THE CONTRACTOR TO FIELD
- 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 ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTHFIED AS SOON AS POSSIBLE. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL WIST 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 ATTENTON OF CROWN CASTLE.

 ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAPPL ORDING, REDULATIONS 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.
- 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.
- SPECIFICALLY STATED UTICIONISE.

 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.
- INSTALLATION:
 CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO
- ONTRACTOR IS TO PERFORM A STIE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELECO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELECO, AND GROUNDING PLAN DRAWINGS.
 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 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 A DAILY BASIS.

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 TO BE 1000 psf.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) 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'Y AT TIME OF PLACEMENT. CONCRETE EXPOSED TO FREEZE—THAN 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
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH......
 CONCRETE EXPOSED TO EARTH OR WEATHER:

#5 BARS AND SMALLER. 1-1/2 CONCRETE NOT EXPOSED TO EARTH OR WEATHER: 3/4" BEAMS AND COLUMNS. 1-1/2"

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 GROUND 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 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 WITH THE POWER CIRCUITS TO BTS
- EQUIPMENT.

 EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.

 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 BUS ABLD BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

 ALLIMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

 USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE #2 SHOULD WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED.

 EXCITEMENT. WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

- 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 BOLIED TO THE BRIDGE AND THE TOWER GROUND BAR.

 APPROVED ANTINODIANT COATINGS (IG. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

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

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

 BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLDI TINNED COPPER GROUND CONDUCTOR.

 GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION FOR ELEVES THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR BEFORE TO THE FACILITY GROUNDING AND LIGHTNING PROTECTION SOLD FOR PROTECTION SOLD FOR PROTECTION SOLD FOR METAL CONDUITS SHALL BE LISED, WHERE LISED OF METAL CONDUITS IN INAVIOLABLE (I.A. NONMETALLIC CONDUIT. WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

 ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION 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/O 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 FEDERAL, STATE, AND
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO FOUIPMENT IS NOT BLOCKED AND TRIP HAZARDS
- WINING 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.

 ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL
- LECTRICAL COUR.

 ALL OVERCURRENT 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 ADOPTED CODE PRE THE GOVERNING JURISDICTION.

 EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH
- COLOR-COLOR TOWNER PRASE CONDUCTOR, GROONDING CONDUCTOR, AND TELECT CONDUCTOR OF CABLE SHALL BE LABELED WITH COLOR COLOR-COLOR COLOR FOR SHALL BE CABELED WITH CONFORM WITH NEC AND OSHAL 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 WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- ALL POWER AND EQUIPMENT GROUND WRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN. THWN. Z. XHHW. XHHW-2. THW. THW-2. RHW. OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WRING 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 WRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WINING FOR USE IN CABLE TRAY SHALL BE MULTI—CONDUCTOR, THE SOOW CORD (#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.
- 15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

 SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION 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
- CABINGES, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE

- SLOTIED 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 CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OF 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 RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKATURY ON CUTSIDE AND INSIDE.
 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
- 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.

 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.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "T-MOBILE".

 ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CON	DUCTOR COL	OK CODE		
SYSTEM	CONDUCTOR	COLOR		
	A PHASE	BLACK		
120/240V, 1Ø	B PHASE	RED		
120/2404, 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	P0S (+)	RED**		
DC VOLTAGE	NEG (-)	BLACK**		
SEE NEC 210.5(C) POLARITY MARKE		ION		

CONDUCTOR COLOR CODE

ABBREVIATIONS:

ΔΝΤΕΝΝΔ EXISTING FACILITY INTERFACE FRAME GENERATOR GLOBAL POSITIONING SYSTEM GEN GPS GSM LTE MGB MW GLOBAL SYSTEM FOR MOBILE LONG TERM EVOLUTION MASTER GROUND BAR MICROWAVE NEW NATIONAL ELECTRIC CODE RECTIFIER RADIO BASE STATION RBS RET RFDS RRH RRU SIAD TMA TYP UMTS W P REMOTE ELECTRIC TIL 1 RADIO FREQUENCY DATA SHEET REMOTE RADIO HEAD TOWER MOUNTED AMPLIFIER

UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM

APWA UNIFORM COLOR CODE:

WHITE PROPOSED EXCAVATION TEMPORARY SURVEY MARKINGS ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES YELLOW GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS

POTABLE WATER RECLAIMED WATER, IRRIGATION, AND SLURRY

SEWERS AND DRAIN LINES

T-MOBILE SOUTH LLC ONE RAVINIA DRIVE, SUITE 1000

ATLANTA, GA 30346



ENGINEERING, PLLC

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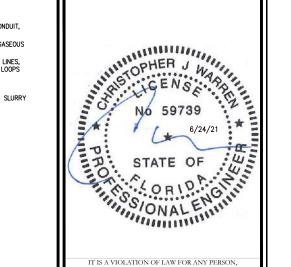
T-MOBILE SITE NUMBER: 9JK2338S

> BU #: 877744 **WILBURN**

703 NE HARRINGTON CT LAKE CITY, FL 32055

EXISTING 240'-0" SELF-SUPPORT TOWER

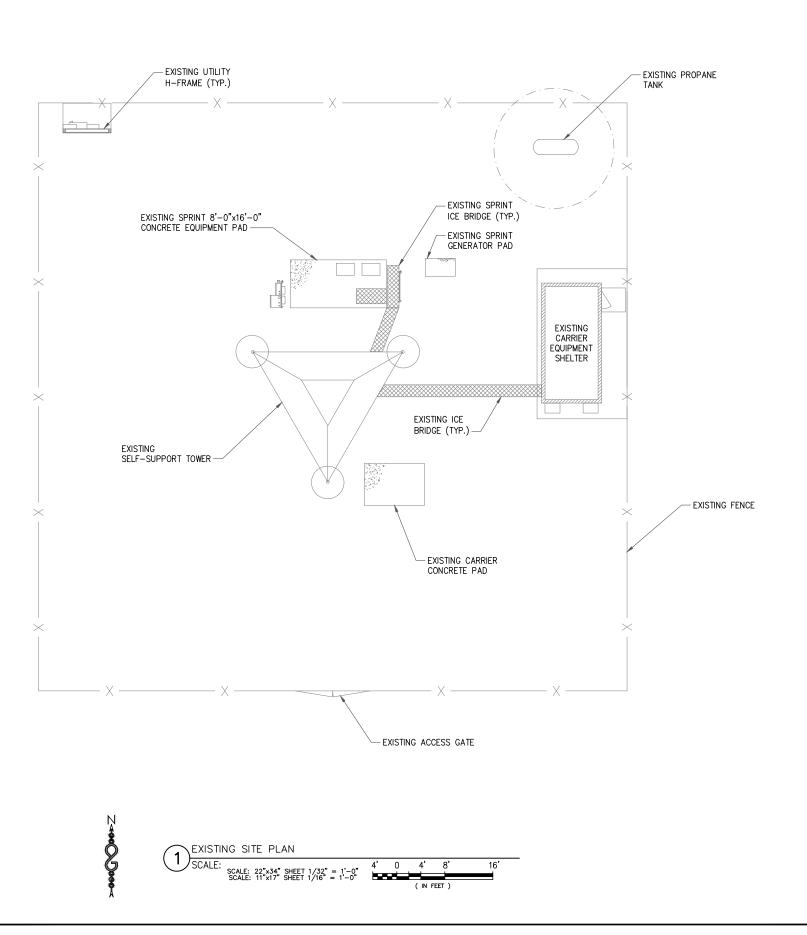
[ISSU	ED FOR:	
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	06/01/21	RCD	PRELIMINARY	PHR
0	06/24/21	RCD	ISSUED FOR CONSTRUCION	PHR



UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. TO ALTER THIS DOCUMENT. SHEET NUMBER: REVISION

SITE PLAN DISCLAIMER:

PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS OR FROM ASSESSORS MAPS. CROWN CASTLE USA INC. HAS NOT COMPLETED A SITE SURVEY AND THEREFORE MAKES NO CLAIMS AS TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET







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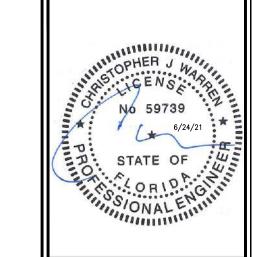
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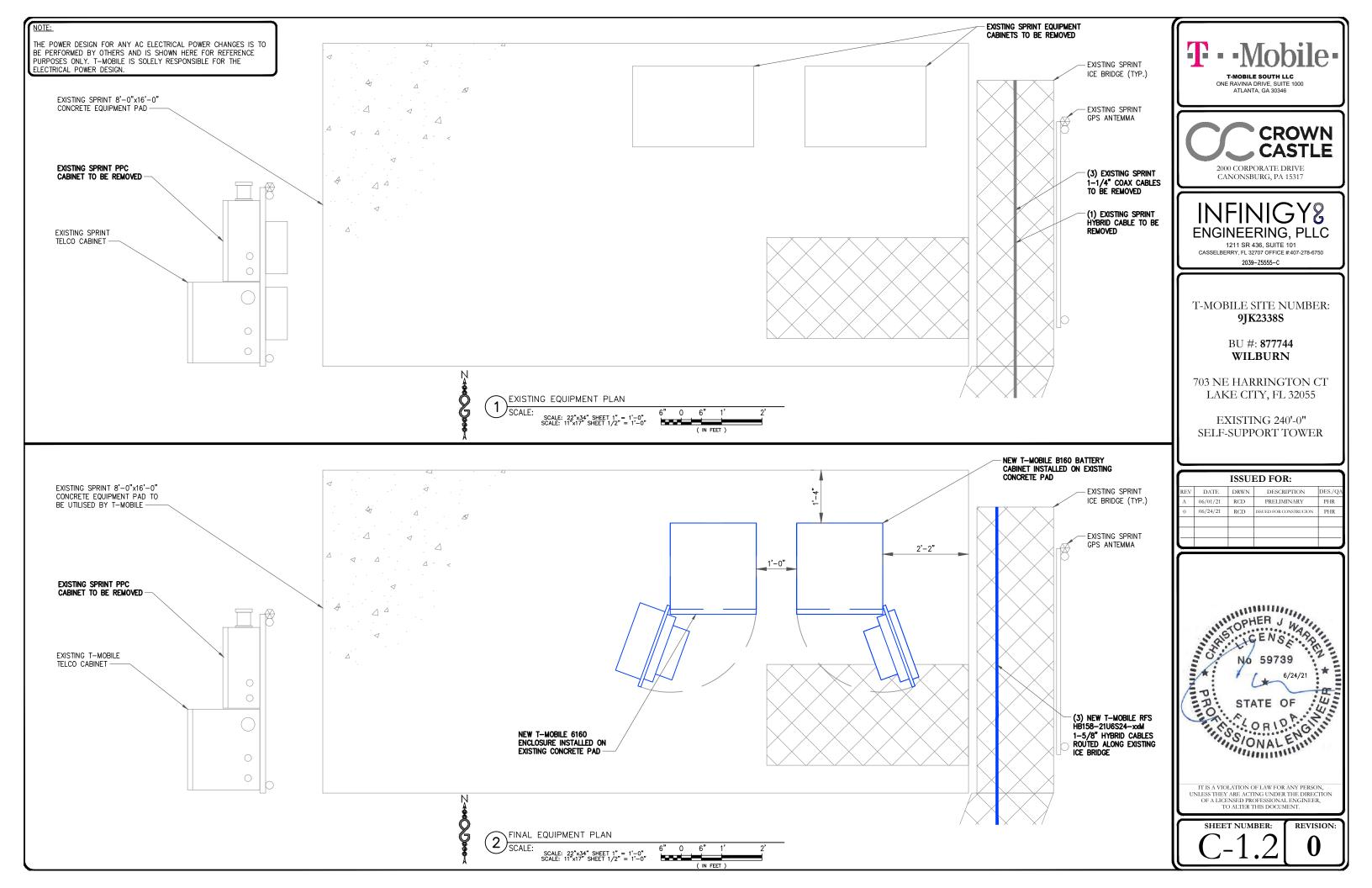
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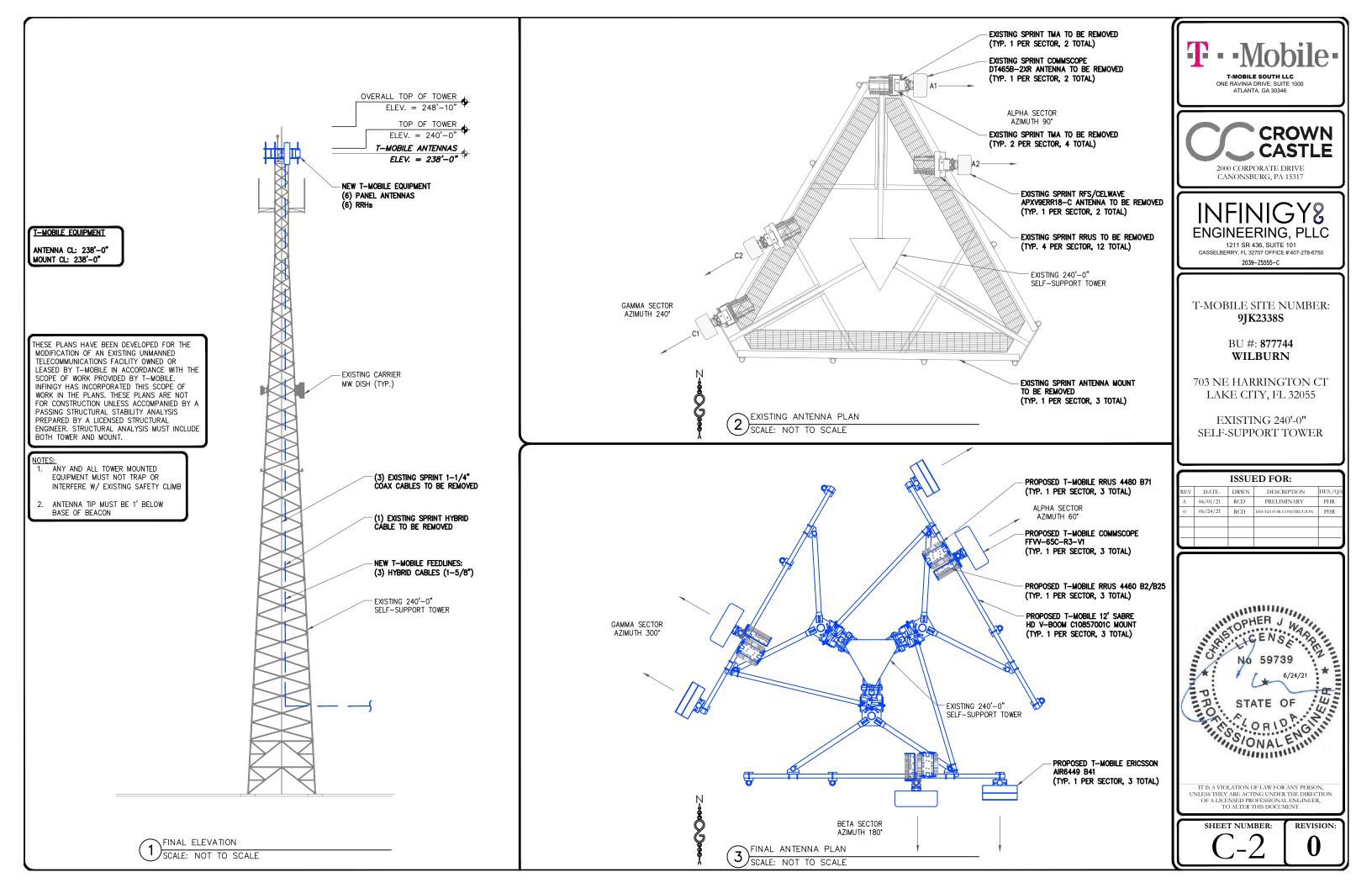
1	ISSUED FOR:									
REV	DATE	DRWN	DESCRIPTION	DES./QA						
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SHEET NUMBER:





	TOWER TOP EQUIPMENT SCHEDULE										
ANTENNA SECTOR	ANTENNA MARK	ANTENNA MODEL #	ANTENNA AZIMUTH	RRU MODEL	COVP	ANTENNA CABLE DESCRIPTION					
ALPHA	A1	ERICSSON AIR6449 B41 (N)	60°								
ALPHA	A2	COMMSCOPE FFVV-65C-R3-V1 (N)	60°	(1) ERICSSON - 4460 B2/B25 B66 (1) ERICSSON - 4480 B71		(1) 1–5/8" DIA. x 270' HYBRID CABLE (P)					
BETA	B2	ERICSSON AIR6449 B41 (N)	180°								
BETA	B1	COMMSCOPE FFVV-65C-R3-V1 (N)	180°	(1) ERICSSON - 4460 B2/B25 B66 (1) ERICSSON - 4480 B71		(1) 1-5/8" DIA. x 270' HYBRID CABLE (P)					
GAMMA	C2	ERICSSON AIR6449 B41 (N)	300°								
GAMMA	C1	COMMSCOPE FFVV-65C-R3-V1 (N)	300°	(1) ERICSSON - 4460 B2/B25 B66 (1) ERICSSON - 4480 B71		(1) 1–5/8" DIA. x 270' HYBRID CABLE (P)					

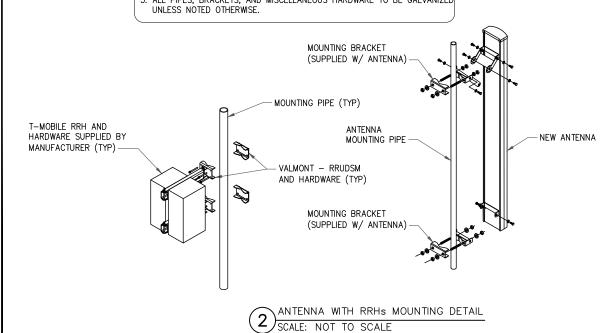
TOWER TOP EQUIPMENT SCHEDULE									
EXISTING QUANTITY	REMOVE QUANTITY	EQUIPMENT TYPE	ADD QUANTITY	TOTAL QUANTITY					
4	4	PANEL ANTENNA	6	6					
3	3	COAX CABLE	0	0					
2	2	RRUS 82 W/SOLAR SHIELD	0	0					
4	4	RRUS 11 B26A	0	0					
2	2	RRUS 31 B25	0	0					
2	2	RADAR FILTER	0	0					
2	2	800MHZ SMR FILTER	0	0					

	TOWER TOP EQUIPMENT SCHEDULE										
EXISTING QUANTITY	REMOVE QUANTITY	EQUIPMENT TYPE	ADD QUANTITY	TOTAL QUANTITY							
1	1	HYBRID CABLE	3	3							
6	6	TMA	0	0							
0	0	RRUS-4480 B71	3	3							
0	0	RRUS-4460 B2/B25 B66	3	3							

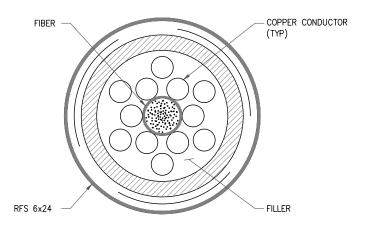
FINAL ANTENNA AND CABLE SCHEDULE
SCALE: NOT TO SCALE

INSTALLER NOTES:

- . COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
- 2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
- 3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED



PARAMETER	VALUE
NOMINAL DIAMETER (INCHES)	1.99
CROSS-SECTION AREA (SQUARE INCHES)	3.13
JACKET COLOR	BLACK
WEIGHT/LINEAR FOOT (POUNDS)	2.5



HYBRID CABLE DETAIL
SCALE: NOT TO SCALE





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1211 SR 436, SUITE 101 CASSELBERRY, FL 32707 OFFICE #:407-278-6750 2039-Z5555-C

T-MOBILE SITE NUMBER: 9JK2338S

> BU #: **877744** WILBURN

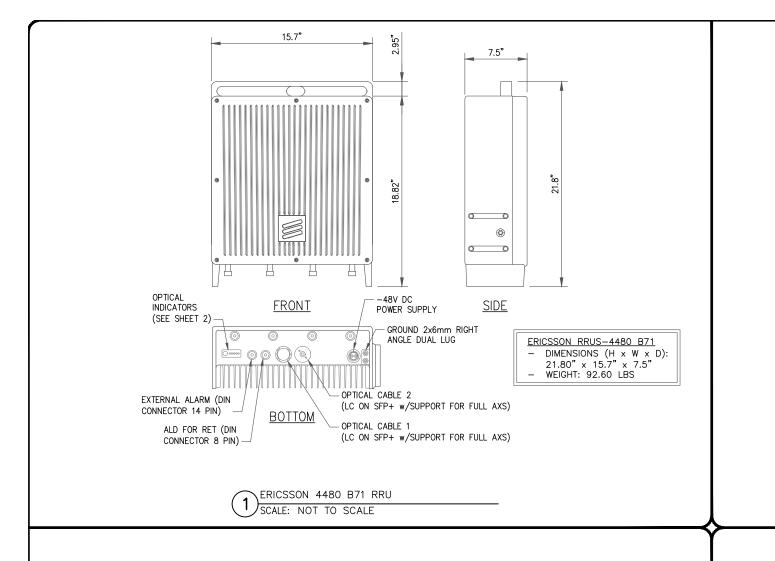
703 NE HARRINGTON CT LAKE CITY, FL 32055

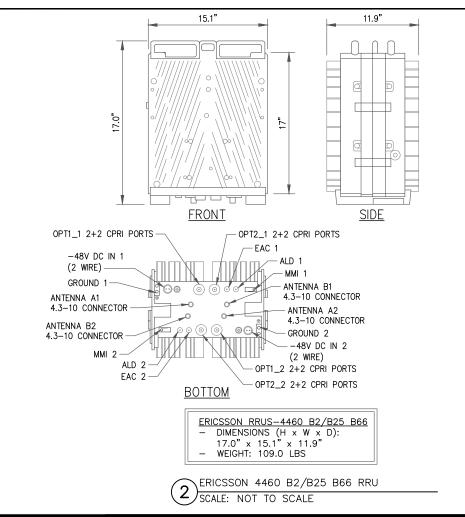
EXISTING 240'-0" SELF-SUPPORT TOWER

	ISSUED FOR:									
REV	DATE	DRWN	DESCRIPTION	DES./QA						
Α	06/01/21	RCD	PRELIMINARY	PHR						
0	06/24/21	RCD	ISSUED FOR CONSTRUCION	PHR						



SHEET NUMBER:









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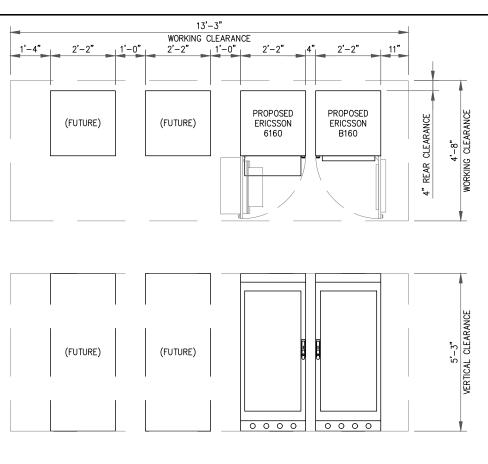
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SHEET NUMBER:

REVISION:

NOT USED

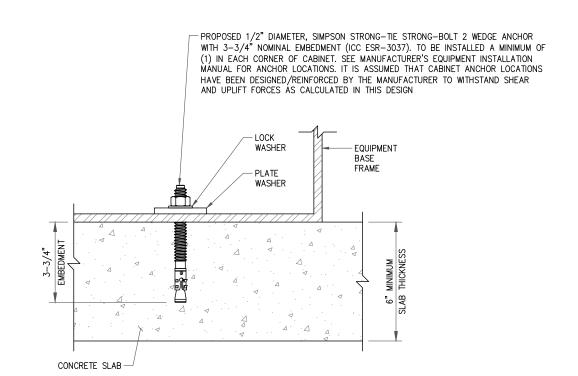
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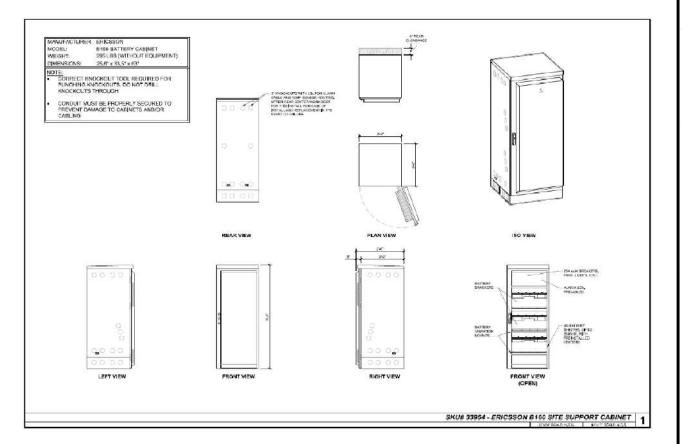
CABINET CONFIGURATION SCALE: NOT TO SCALE

6160 SITE SUPPORT CABINET 205 LBS (WITHOUT EQUIPMEN) 10000 FREE ROUTED RETWEEN NOSO CHEMISTS ON SITE, US WITH RIGH CONDUTTE PROTECTION. INTERNAL ROUTING 0 0 0 0 0 PHONOCHOLT ON LIET HAS BIDE OF CHEINST USED AC POWER WITH BOLD CONDI AND LIE PENETRATION B CREEKLY SELOW ACCU. LEFT VIEW RIGHT VIEW SKU# 33953 - ERICSSON 6160 SITE SUPPORT CABINET 1

> ERICSSON - 6160 SCALE: NOT TO SCALE



CABINET ANCHOR DETAIL CABINET ANCHOR DETA



ERICSSON - B160 (4) SCALE: NOT TO SCALE





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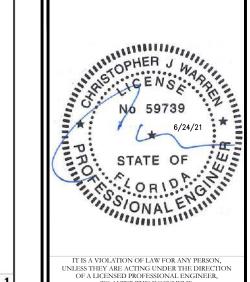
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TO ALTER THIS DOCUMENT.

SHEET NUMBER:

	Ba	ttery Type	NSB13 Red	NSB90 Red	NSB125 Red	NSB40FT Red	NSE60FT Red	NSB92FT Red	NSB100FT Red	NSB110FT Red	NSB145FT Red	NSB155FT Red	NSB170FT Red	NSB180FT Red	NSB190FT Red	NSB210FT Red
	Weight	/kg	0.8	6.2	8.0	2.6	3.9	5.7	6.1	7.1	8.1	9.6	10.5	10.5	10.5	12.1
Bectrolyte	- Total	/lbs	1.7	13.6	17.6	5.8	8.6	12.5	13.5	15.6	17.9	21.1	23.2	23.2	_	26.5
Name and Address of the Owner, where the Person of the Owner, where the Person of the Owner, where the Owner,	Volume	/litres	0.6	4.6	6.0	2.0	2.9	4.3	4.6	5.3	6.1	7.1	7.8	7.8	7.8	9.0
	, Cicino	/gallons	0.1	1.2	1.6	0.5	8.0	1.1	1.2	1.4	1.6	1.9	2.08	2.08	2.08	2.4
100000000000000000000000000000000000000	Weight	/kg	0.4	3.4	4.4	1.4	2.1	3,1	3.4	4.0	4.5	5.4	4.8	4.8	4.8	6.8
Acid	worgin	/lbs	0.9	7.5	9.6	3.2	4.7	6.9	7.5	8.7	10.0	11.8	10.5	10.5	10.5	14.9
Acid	Volume	/litres	0.2	1.8	2.4	0.8	1.2	1.7	1.8	2.2	2.5	2.9	2.6	2.6	2.6	3.7
	Volume	/gallons	0.1	0.5	0.6	0.2	0.3	0.5	0.5	0.6	0.7	0.8	0.7	0.7	0.7	1.0
Lead	Moinh	/kg	1.7	11.4	14.7	4.4	6.3	9,1	9.6	12,2	14.0	15.7	15.4	17.3	17.9	19.8
Lead	Weight	/lbs	3.7	25.0	32.3	9.7	13.9	20.0	21.2	26.8	30.7	34.5	33.9	38.1	39.4	43.6
Land Oulds	Mediala	/kg	1.6	124	16.0	5.3	7.8	11.6	12.7	15.2	17.4	20.8	20.3	24.2	23.3	25.7
Lead Oxide	Weight	/lbs	3.5	27.2	35.2	11.7	17.1	25.5	27.9	33.4	38.3	45.9	44.8	53.3	51.2	56.6
Cells	# of	Cells	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total	NAT - Inde	/kg	4.9	34.4	44.5	14.2	20.6	30.2	32.5	39.2	45.0	52.9	55.0	50.8	59.7	66.0
Weight	Weight	/lbs	10.8	75.8	97.9	31.3	45.2	66.3	71.6	86.3	99.0	116.4	121.2	133.7	131.6	145.5

PROPOSED BATTERY IN B160 CABINET

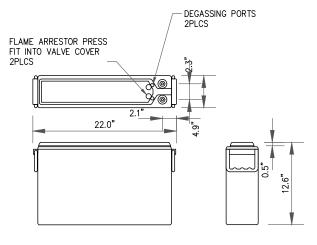
BATTERY INFORMATION

- NUMBER OF BATTERIES = 12

 VOL ELECTROLYTE = 2.08 GAL PER BATTERY

 TOTAL VOLUME ELECTROLYTE = 24.96 GAL

 CLASSIFICATION = VRLA VALVE REGULATED LEAD
- ACID BATTERY, SULFURIC ACID, HEALTH RATING
- 3, FIRE RATING 0, REACTIVE RATING 2 MODEL #NSB 190FT RED NORTHSTAR FRONT TERMINAL BATTERY
- * PER NCFC SEC 608.1, THE T-MOBILE BATTERY ELECTROLYTE CAPACITY (24.96 GAL) TO BE INSTALLED IS LESS THAN THE REQUIRED 50 GAL TO ADHERE TO BATTERY REQUIREMENTS OF TABLE







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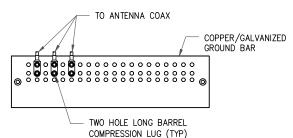
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REVISION:

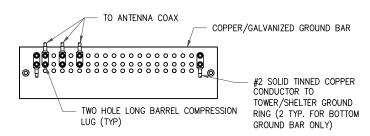
NORTHSTAR - NSB 190FT HT RED BATTERY DETAIL SCALE: NOT TO SCALE

NOT USED SCALE: NOT TO SCALE



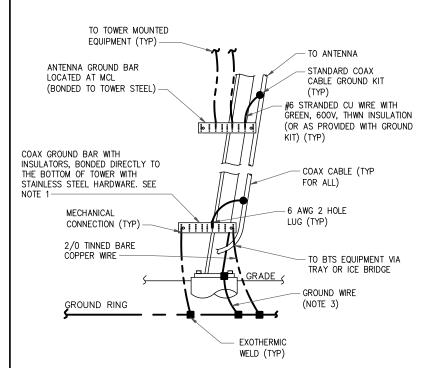
- 1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- 2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- 3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.
- ANTENNA SECTOR GROUND BAR DETAIL

SCALE: NOT TO SCALE

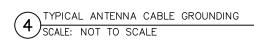


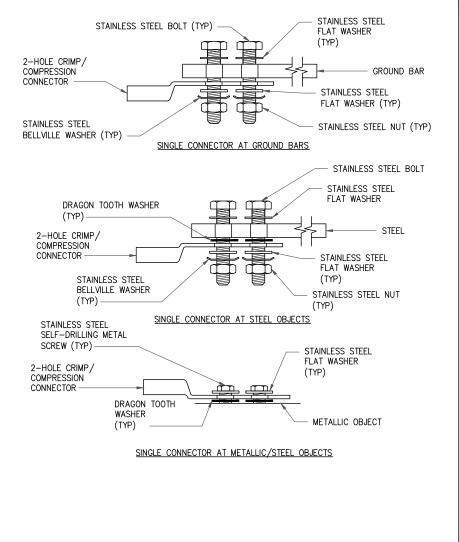
- I. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR
- 2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
- 3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

TOWER/SHELTER GROUND BAR DETAIL SCALE: NOT TO SCALE



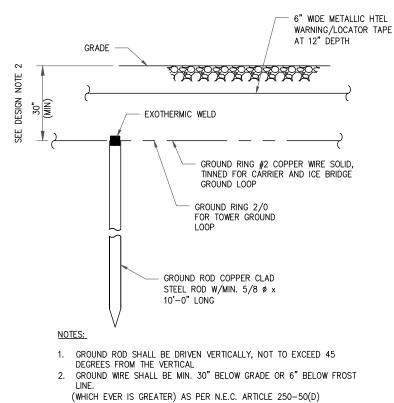
- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
- 2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
- ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND





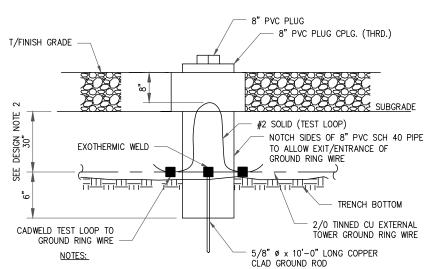
HARDWARE DETAIL FOR EXTERIOR CONNECTIONS

SCALE: NOT TO SCALE



- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45

GROUND ROD DETAIL SCALE: NOT TO SCALE



- 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 (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)
- INSPECTION WELL DETAIL SCALE: NOT TO SCALE

T-MOBILE SOUTH LLC ONE RAVINIA DRIVE, SUITE 1000 ATLANTA, GA 30346



ENGINEERING, PLLC

1211 SR 436, SUITE 101 CASSELBERRY, FL 32707 OFFICE #:407-278-6750 2039-Z5555-C

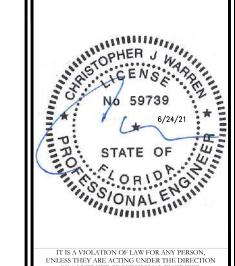
T-MOBILE SITE NUMBER: 9JK2338S

> BU #: 877744 **WILBURN**

703 NE HARRINGTON CT LAKE CITY, FL 32055

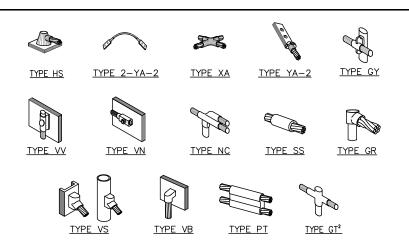
EXISTING 240'-0" SELF-SUPPORT TOWER

	ISSUED FOR:								
REV DATE DRWN DESCRIPTION DES./									
Α	06/01/21	RCD	PRELIMINARY	PHR					
0	06/24/21	RCD	ISSUED FOR CONSTRUCION	PHR					



OF A LICENSED PROFESSIONAL ENGINEER. TO ALTER THIS DOCUMENT.

SHEET NUMBER:

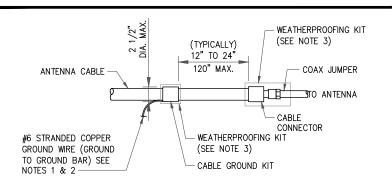


NOTE:

- ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.

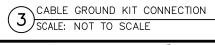
 MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

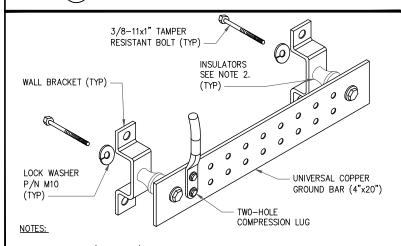
CADWELD GROUNDING CONNECTIONS SCALE: NOT TO SCALE



NOTES:

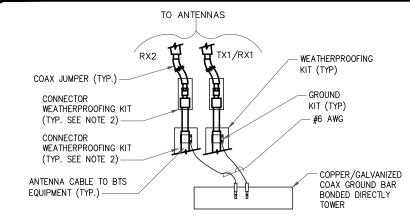
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.





- DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT 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
- OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

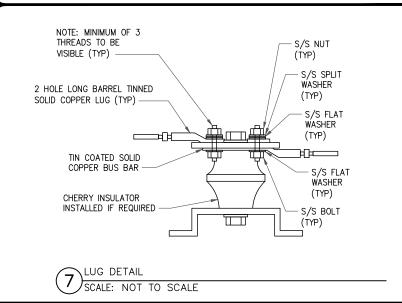
GROUND BAR DETAIL SCALE: NOT TO SCALE



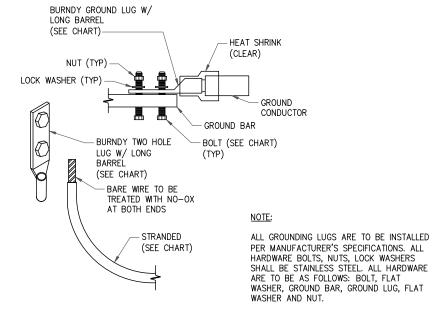
NOTES:

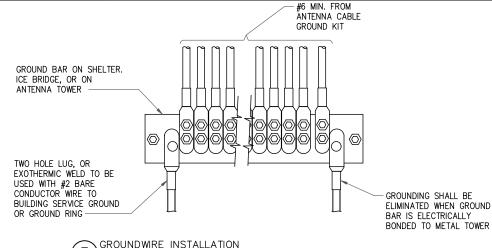
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

GROUND CABLE CONNECTION (4) SCALE: NOT TO SCALE





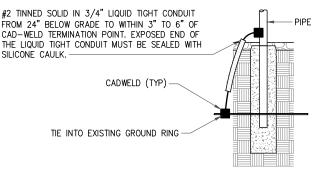




GROUNDWIRE INSTALLATION SCALE: NOT TO SCALE

MECHANICAL LUG CONNECTION

SCALE: NOT TO SCALE



TRANSITIONING GROUND DETAIL SCALE: NOT TO SCALE

ONE RAVINIA DRIVE, SUITE 1000 ATLANTA, GA 30346



ENGINEERING, PLLC

1211 SR 436, SUITE 101 CASSELBERRY, FL 32707 OFFICE #:407-278-6750 2039-Z5555-C

T-MOBILE SITE NUMBER: 9JK2338S

> BU #: **877744 WILBURN**

703 NE HARRINGTON CT LAKE CITY, FL 32055

EXISTING 240'-0" SELF-SUPPORT TOWER

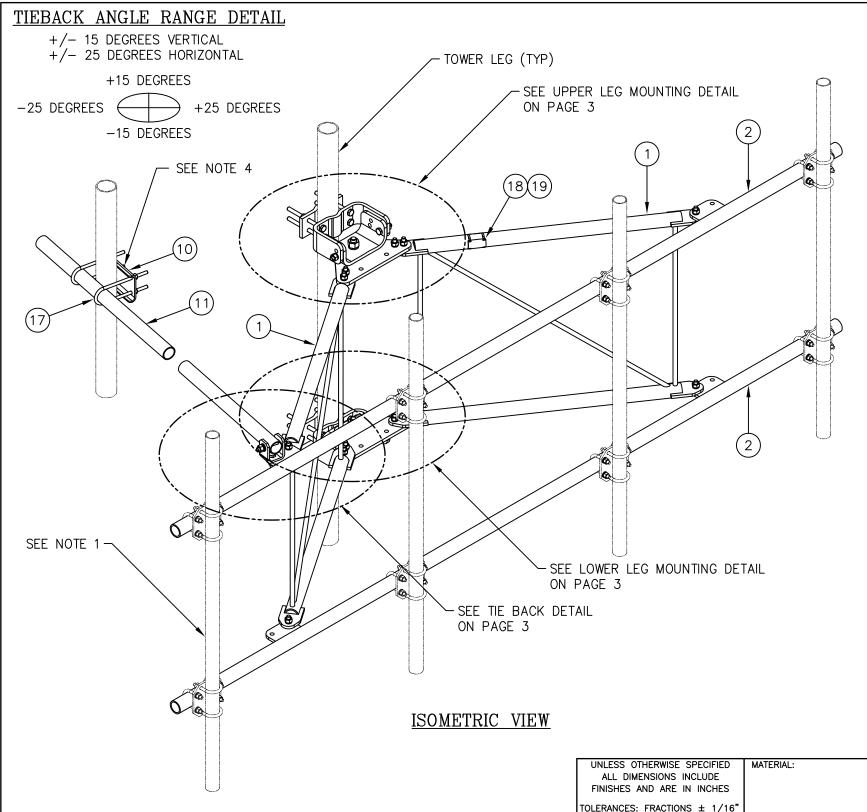
	ISSUED FOR:								
REV	DATE	DRWN	DESCRIPTION	DES./QA					
Α	06/01/21	RCD	PRELIMINARY	PHR					
0	06/24/21	RCD	ISSUED FOR CONSTRUCION	PHR					



OF A LICENSED PROFESSIONAL ENGINEER. TO ALTER THIS DOCUMENT.

SHEET NUMBER:





	(C108570010	C 12' HD V-BOOM ASSEMBLY W/TIEBACK	
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	2	CW01222	WELDMENT, STANDOFF ARM	126
2.	2	CW01223	WELDMENT, FACE PIPE	147
3.	2	CS03109	PLATE, ROTATING	34
4.	1	CS03110	PLATE, PIVOTING (UPPER)	16
5.	1	CS03111	PLATE, LEG CLAMP (UPPER)	17
6.	1	CS03112	PLATE, PIVOTING (LOWER)	14
7.	1	CS03113	PLATE, LEG CLAMP (LOWER)	17
8.	2	CS03114	PLATE, LEG CLAMP (BACK)	14
9.	1	CS00098	PLATE, TIE BACK SWIVEL	3
10.	1	CS03285	PLATE, TIE BACK CLAMP	4
11.	1	CS03333	PIPE, TIE BACK	38
12.	2	C40026073	BOLT ASSEMBLY, 1 Ø X 3 A325	4
13.	8	C40140004	BOLT ASSEMBLY, 5/8 Ø X 8 A307	13
14.	1	C40026033	BOLT ASSEMBLY, 5/8 Ø X 4 1/2 A325	1
15.	12	C40026025	BOLT ASSEMBLY, 5/8 Ø X 2 1/2 A325	6
16.	5	C40026024	BOLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	3
17.	2	C40034183	U-BOLT ASSEMBLY, 1/2 Ø X 2 9/16 C-C	3
18.	1	Z30992001	MOUNT CLASSIFICATION TAG C10857001C	1
19.	2	C40062103	STAINLESS STEEL SELF-LOCKING CABLE TIE	1
			TOTAL WEIGHT	462

NOTES:

- 1. 2 3/8" O.D. MOUNTING PIPES MUST BE PURCHASED SEPARATELY.
- 2. QUANTITIES SHOWN IN LISTS OF MATERIAL ARE FOR ONE (1) V-BOOM ONLY.
- 3. THIS V-BOOM WILL MOUNT TO THE FOLLOWING: 1 1/2" TO 5 9/16" ROUND LEG.

4. TIEBACK MUST BE CONNECTED TO A RIGID MEMBER THAT PROVIDES ADEQUATE SUPPORT WITHIN THE LIMITS NOTED ABOVE IN THE TIEBACK ANGLE RANGE DETAIL UNLESS APPROVED BY THE ENGINEER OF RECORD.

SANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010" ANGLES ± .010" TOLERANCES DO NOT APPLY TO RAW MATERIAL Sabre Industries Towers and Poles

1 01/21/16 KLE EK REVISED NOTES & ADDED TIEBACK ANGLE RANGE DET/

DESCRIPTION

REV DATE DRWICHK

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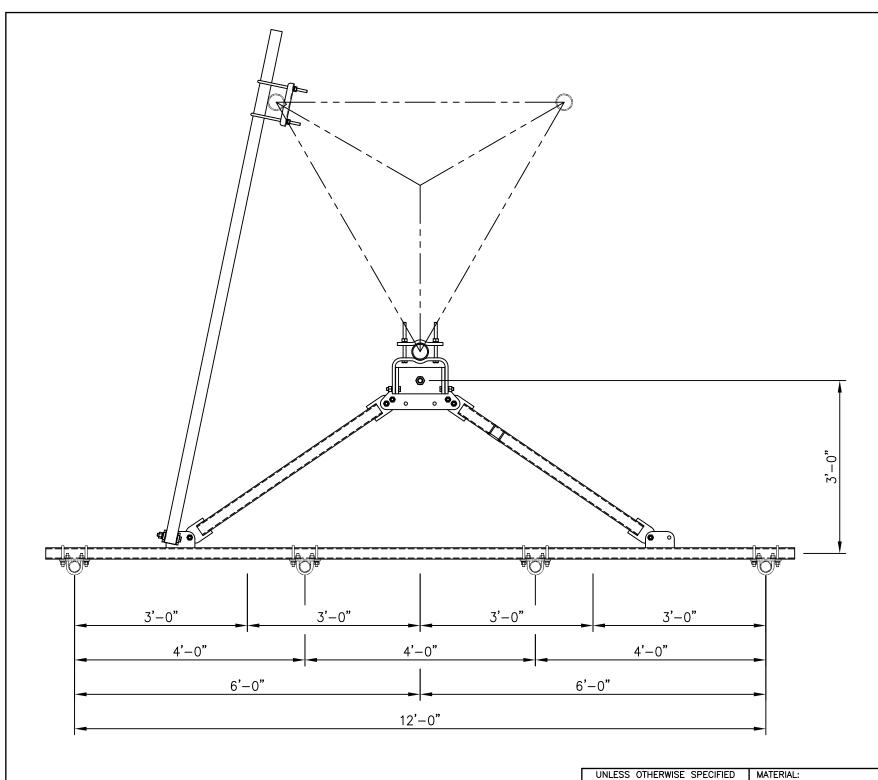
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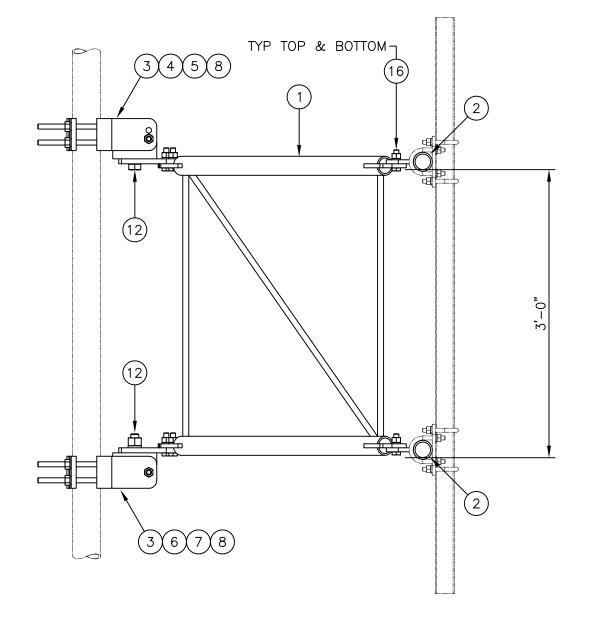
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12' HD V-BOOM ASSEMBLY W/TIEBACK (3' STANDOFF) W/NO ANTENNA MOUNTING PIPES

		SIZE	DRAWING NO.			REV
DATE	12/22/15	В	C10857001C			1
DRAWN BY WRF				SCALE	P	AGE
CHECKED BY EK				None	1 1 0	OF 3







SIDE VIEW

MOUNTING OPTIONS

SHOWING MOUNTING PIPE PLACEMENTS

F	ALL DIMEN INISHES AN									
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"							ANCES)T APP	LY
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\perp 1	01/21/16	KLE	<u>EK</u>	REVISED NOT	ES &	ADDED	TIEBACK	ANGLE	RANGE	DETAIL
REV	DATE	DRW	снк	DESCRIPTION						

Sabre Industries Towers and Poles

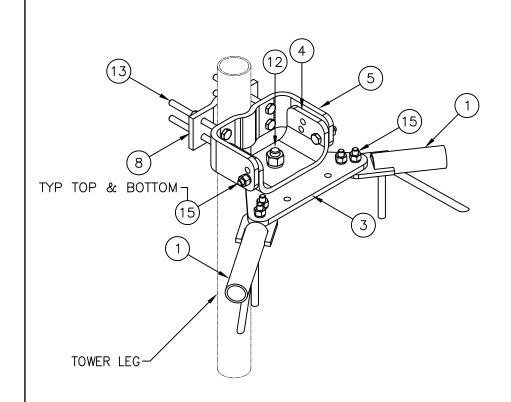
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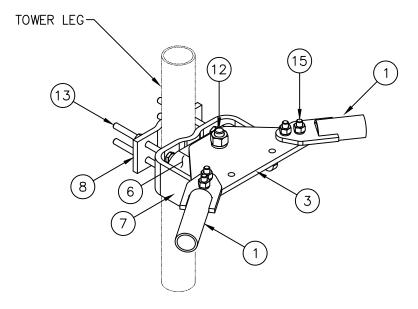
12' HD V-BOOM ASSEMBLY W/TIEBACK (3' STANDOFF) W/NO ANTENNA MOUNTING PIPES

		SIZE	DRAWING NO.			REV
DATE	12/22/15	В	C108	3570010	, יר	1
DRAWN BY WRF				SCALE	P	AGE
CHECKED BY	EK			None	2 (OF 3

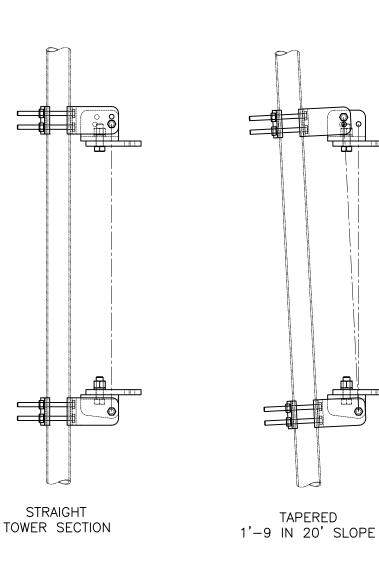




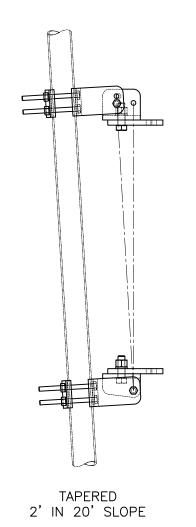
UPPER LEG MOUNTING DETAIL

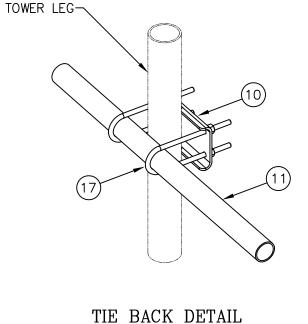


LOWER LEG MOUNTING DETAIL

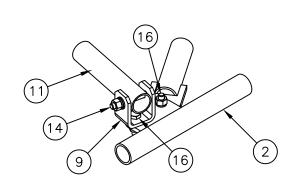


____PIVOTING OPTIONS____





AT TOWER LEG



TIE BACK DETAIL
AT ANTENNA MOUNTING FRAME

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010" MATERIAL: Sabre Industries Towers and Poles To RAW MATERIAL

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| 1 O1/21/16 | KLE | EK | REVISED NOTES & ADDED | TIEBACK | ANGLE | RANGE | DETAIL |
| REV | DATE | DRW | CHK | DESCRIPTION | All | rights reserved.

12' HD V-BOOM ASSEMBLY W/TIEBACK
(3' STANDOFF)
W/NO ANTENNA MOUNTING PIPES

		SIZE	DRAWING NO.			REV
DATE	12/22/15	В	C10857001C			1 1
DRAWN BY WRF				SCALE	P	AGE
CHECKED BY	EK			None		OF 3