verizon

VERIZON SITE NUMBER: 5000125815

BRADLEY PARK - A VERIZON SITE NAME:

17112325 **VERIZON PROJECT:**

MONOPOLE SITE TYPE:

120'-0" **TOWER HEIGHT:**

BUSINESS UNIT #: 880329

VERIZON SIGNATURE BLOCK

APPROVAL

RADIO

MICROWAVE

EOUIPMENT

APPROVAL

PLANNER

LANDLORD

SITE ACOUISITION

CONSTRUCTION

PROIECT MANAGER

LITILITY MANAGER

PROIECT ADMINISTRATO

WO ADMINISTRATOR

SITE ACQUISITION

CONSTRUCTION

3150 S MERIDIAN **SITE ADDRESS:**

PUYALLUP, WA 98373

DATE

COUNTY: PIERCE

APPROVALS

CITY OF PUYALLUP JURISDICTION:

SIGNATURE



verizon

PRCTI20250387



EXISTING 120'-0" MONOPOLE

	ISSUED FOR:							
ŒV	DATE	DRWN	DESCRIPTION	DES./QA				
0	8/28/24	AJC	CONSTRUCTION	MB				
1	2/11/25	AJC	CONSTRUCTION	MB				
2	4/3/25	AJC	CONSTRUCTION	MB				

VERIZON SITE NUMBER: 5000125815 BU #: 880329 CROWN CASTLE SITE NAME **SOUTH HILL MALL** 3150 S MERIDIAN PUYALLUP, WA 98373

ISSUED FOR:						
REV	DATE	DRWN	DESCRIPTION	DES./QA		
0	8/28/24	AJC	CONSTRUCTION	MB		
1	2/11/25	AJC	CONSTRUCTION	MB		
2	4/3/25	AJC	CONSTRUCTION	MB		

CROWN CASTLE USA INC COA #2271

IT IS A VIOLATION OF LAW FOR ANY PERSON,

SITE INFORMATION

CROWN CASTLE USA INC.

SOUTH HILL MALL

BU NUMBER:

CROWN CASTLE USA, INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317

CARRIER/APPLICANT:

VERIZON WIRELESS 3120 139TH AVE SE SUITE 500 BELLEVUE, WA 98005

SITE ADDRESS:

TOWER OWNER:

3150 S MERIDIAN PUYALLUP, WA 98373

COUNTY: LATITUDE: LONGITUDE

47° 9' 43.46" / 47.1621° -122° 17' 40.04" / -122.2945° NAD83 LAT/LONG TYPE

GROUND ELEVATION:

AREA OF CONSTRUCTION: EXISTING UCX (URBAN CENTER MIXED USE) CURRENT ZONING:

MAP/PARCEL #:

041904-4084

OCCUPANCY CLASSIFICATION: U

TYPE OF CONSTRUCTION:

A.D.A. COMPLIANCE:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

PROPERTY OWNER:

WASHINGTON STATE DOT P.O. BOX 47339 DEPARTMENT OF TRANSPORTATION ATTN: CASHIER OLYMPIA, WA 98504

CITY OF PUYALLUP JURISDICTION: 333 S MERIDIAN

PHYALLIP WA 9837

ELECTRIC PROVIDER:

1-888-225-5773

PROJECT TEAM

A&E FIRM:

CROWN CASTLE USA, INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317

CROWN CASTLE

2000 CORPORATE DRIVE CANONSBURG, PA 15317

CONTACTS:

CLINTON GRIFFETH - PROJECT MANAGER CLINTON.GRIFFETH@CROWNCASTLE.COM

ASAD RIZVI - AES

ASAD.RIZVI@CROWNCASTLE.COM

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

DRAWING INDEX

SHEET DESCRIPTION

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING 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.



CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT SMART TOOL VENDOR PROJECT NUMBER

SHEET #

T-1

C-2

C-3

G-1

TITLE SHEET

SITE PLAN

GENERAL NOTES

ANTENNA PLANS

TOWER ELEVATIONS

COLOR CODE MATRIX

GROUNDING DETAILS

FINAL EOUIPMENT SCHEDULE

EQUIPMENT DETAILS & SPECIFICATIONS

https://pmi.vzwsmart.com

10240744 VzW LOCATION CODE (PSLC) 221424

*** 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 (1) ERICSSON - 4449 RADIO

• INSTALL (1) MATSING - MS-MBA-3-L4A2 ANTENNA

APPLICABLE CODES & REFERENCE DOCUMENTS

NO SCALE

LOCATION MAP

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	CODE
BUILDING	2021 IBC
MECHANICAL	2021 IMC
ELECTRICAL.	2020 NEO

STRUCTURAL ANALYSIS: CROWN CASTLE DATED: 1/16/25

> MOUNT ANALYSIS: TOWER ENGINEERING SOLUTIONS, LLC DATED: 12/3/24

RFDS REVISION: A DATED: 7/16/24 ORDER ID: 670680

REVISION: 2

DIRECTIONS

SHEET NUMBER

'LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: "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 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 EQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISD REQUIREMENTS.

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

ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, EXECTION 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/ASSE ATO.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATION; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE ATO.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-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 SUPPORTING STRUCTURES AND ANTENNAS."

INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING 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, MICES, 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 TI 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

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

THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWE 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 CON

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

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: ARRIER: VERIZON OWER 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

EXERCISED UNDER SIMILAR CIRCUMSIANCES BY REPUIRBLE ENGINEERS IN THIS OR SIMILAR LOCALIES. 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 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 SOLELLY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS,
TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDED ALL MEASURES NECESSARY FOR
PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED
TO, BRAGING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HE INCLUDE, BUT NOT BE LIMITED
INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE VER CENERAL NOTES AND TYPICAL
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,
CENERAL 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
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 DRAWINGS THE
ENSINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

PRIOR TO THE SUBMISSION OF BIDS, THE BIDD

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

TRAMINUS. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEM<mark>ENTS, PAVEMENTS, CURBS, LAND</mark>SCAPING 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 TEMS 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

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 REINFORTOR SHALL CONFORM TO ASTM AG15, ALL WELDED WITE FABIC (WWF) SHALL CONFORM TO ASTM

A18.5. 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 AS FOLLOWS

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.

OOLED 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:

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

ALC GROUND ELECTRODE STSTEMS (INCLUDING TELECOMMOUNDATION, NADIO, ESTIMATION AND TOTAL AND ACCORDANCE WITH THE NEC.

THE CONTRACTOR SHALL PERFORM IEEE FALL—OF—POTENTIAL 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

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 GOAD STREET WIND BE DUUBLED 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 GROUNDING 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.

EXCHIERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS. BETOM GRADE

USE OF 90 BENDS IN THE PROTECTION GROUNDING CONDUCTIONS SHALL BE AVOIDED WHEN 45 BENDS CAN BE ADEQUATED SOPPLE EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS SHOW 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 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.

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 SOLID TINNED COPPER GROUND CONDUCTOR.

GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS,

METAL SUPPORT CLIPS OR SLEEVES THROUGH 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 BUILDING STEEL COLUMNS, HOUSE INDICATION AND PROPERTIES OF THE MENT HAVE DEVELOPED TO A 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 ACCUMUANCE 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 EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO

1. ALL EQUIPMENT SHALL BEAK THE UNDERWRIERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.

2. 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—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

PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
ALL TIE WRAPS SHALL BE OUT 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

POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH

TYPE THINK, THIWN, THIWN-2, THIW, XHHIW-2, THIW, THIW-2, TRIW, 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 PERTATION NOT LESS THAN 75 C (90° C IF AVAILABLE).

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

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 OR 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.

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

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

WIREWAYS 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 WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE WILL SOBIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANILKE 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 LOCKNUT ON OUTSIDE AND INSIDE.

EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOTY—COATED SHEET STEFL SHALL MET FOR EXCEPTED LISTON AND NEMA 3R (OR

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 ACCESSARY TO THE ARCESS.

THE CONTRACTOR SHALL PROVIDE NECESSARY TAGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY. 28.

29. 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**					
CEE NEC 210 E(C)(1) AND (2)							

CONDUCTOR COLOR CODE

SEE NEC 210.5(C)(1) AND (2)
POLARITY MARKED AT TERMINATION

ABBREVIATIONS:

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

TOWER MOUNTED AMPLIFIER

UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM WORK POINT

APWA UNIFORM COLOR CODE:

WHITE PROPOSED EXCAVATION

TEMPORARY SURVEY MARKINGS ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES YELLOW GAS, OIL, STEAM, PETROLEUM, OR GASFOUS MATERIALS

COMMUNICATION, ALARM OR SIGNAL LINES CABLES OR CONDUIT AND TRAFFIC LOOPS BLUE POTABLE WATER

RECLAIMED WATER, IRRIGATION, AND SLURRY LINES SEWERS AND DRAIN LINES

PRCTI20250387





VERIZON SITE NUMBER: 5000125815

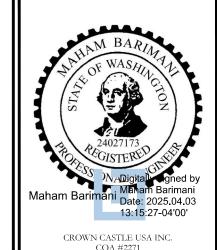
BU #: 880329

CROWN CASTLE SITE NAME **SOUTH HILL MALL**

> 3150 S MERIDIAN PUYALLUP, WA 98373

> > EXISTING 120'-0" MONOPOLE

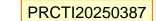
ISSUED FOR: DATE DRWN DESCRIPTION 2/11/25 CONSTRUCTION MB



IT IS A VIOLATION OF LAW FOR ANY PERSON

SHEET NUMBER:









VERIZON SITE NUMBER: 5000125815

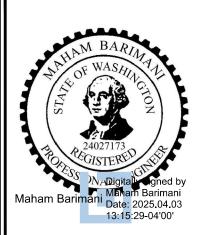
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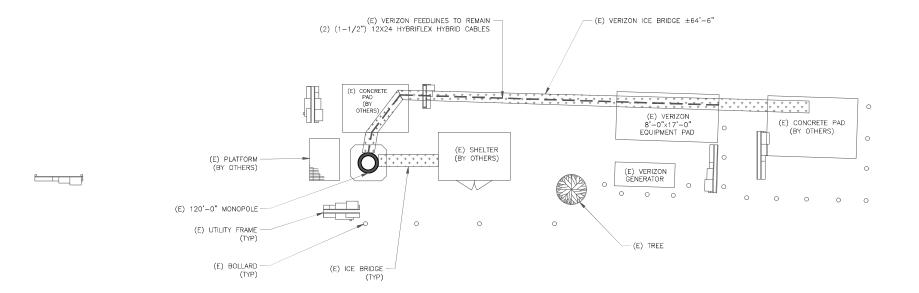
Γ	ISSUED FOR:						
REV	DATE	DRWN	DESCRIPTION	DES./QA			
0	8/28/24	AJC	CONSTRUCTION	MB			
1	2/11/25	AJC	CONSTRUCTION	MB			
2	4/3/25	AJC	CONSTRUCTION	MB			



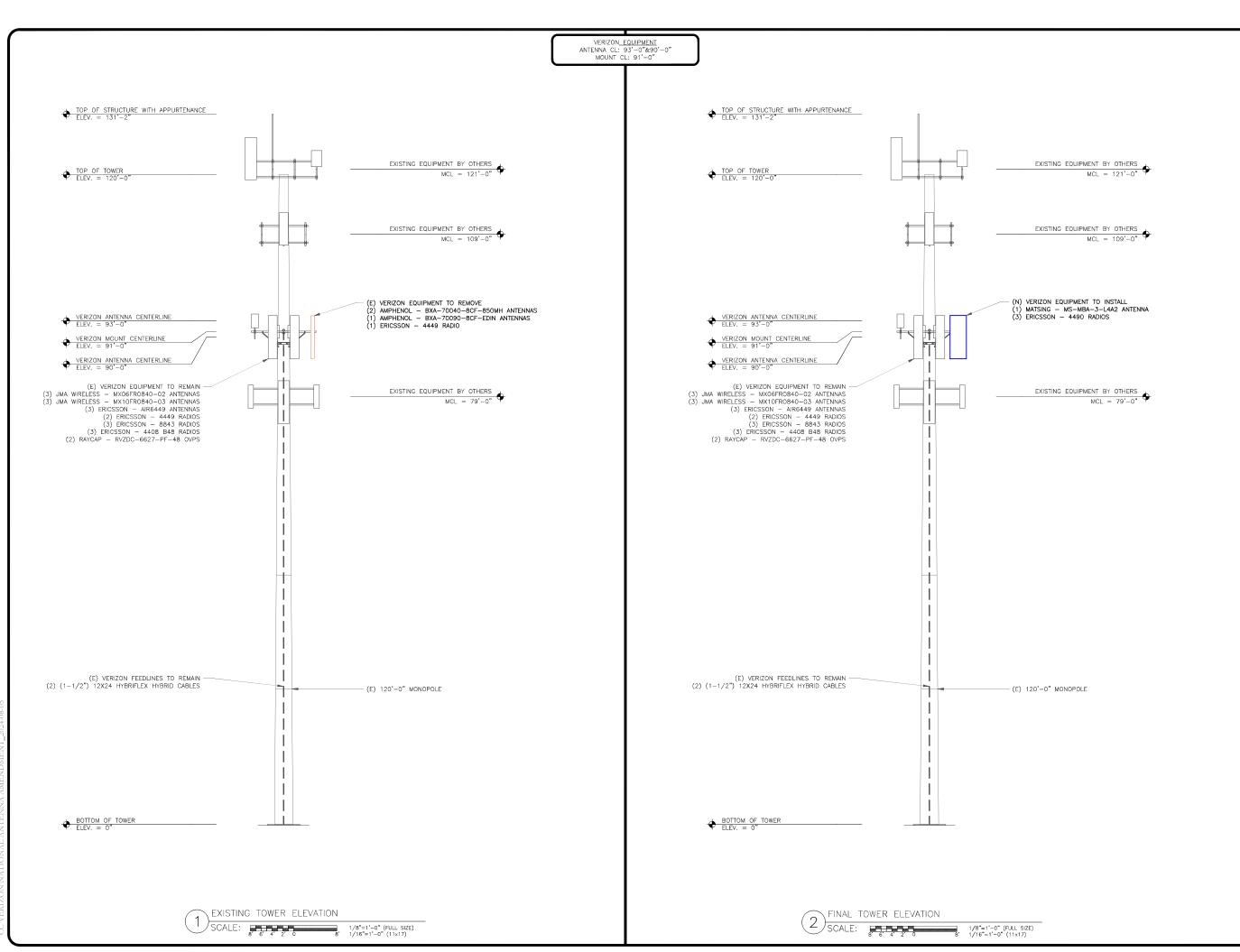
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SHEET NUMBER:







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3150 S MERIDIAN PUYALLUP, WA 98373

> EXISTING 120'-0" MONOPOLE

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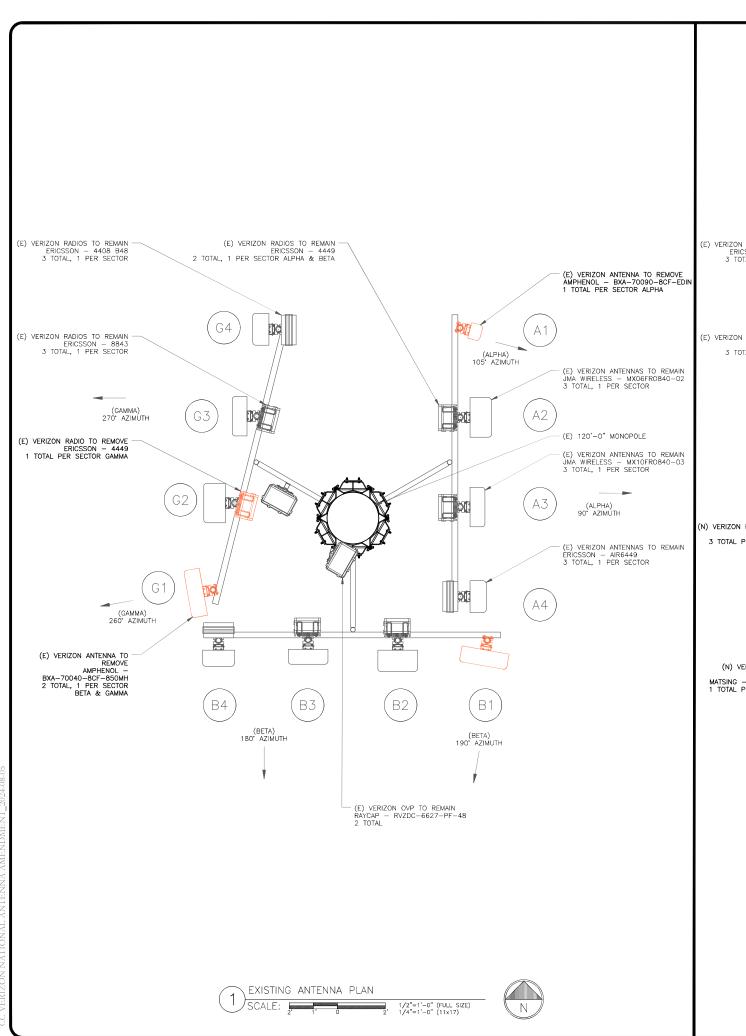
CROWN CASTLE USA INC. COA #2271

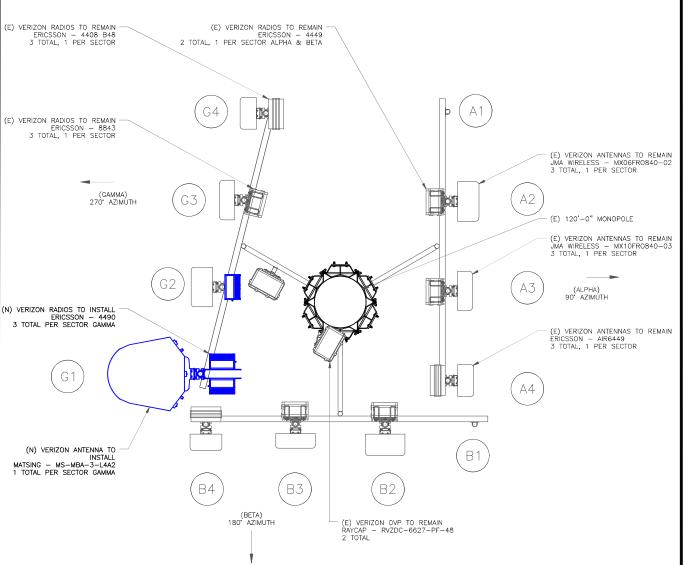
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SHEET NUMBER:

REVISION:

J-2





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VERIZON SITE NUMBER: 5000125815

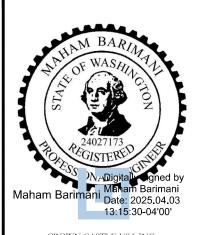
BU #: **880329**

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3150 S MERIDIAN PUYALLUP, WA 98373

> EXISTING 120'-0" MONOPOLE

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2	4/3/25	AJC	CONSTRUCTION	MB		



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SHEET NUMBER:

REVISION:

FINAL ANTENNA PLAN

SCALE: 2 1/0 2, 1/2"=1'-0" (FULL SIZI

- (N)

FINAL EQUIPMENT SCHEDULE (VERIFY WITH CURRENT RFDS)

		ANTENNA			RADIO			DIPLEXER		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
A2	700 850 PCS	(E) JMA WIRELESS — MX06FR0840-02	90°	90'-0"	1	(E) ERICSSON - 4449	TOWER	-	-	-	-	-	-	-	-	-	-	-
А3	700 850 AWS CBRS	(E) JMA WIRELESS — MX10FR0840-03	90°	90'-0"	1	(E) ERICSSON - 8843	TOWER	_	I	-	-	_	-	-	-	-	-	_
A4	C BAND	(E) ERICSSON — AIR6449	90°	92.7'	1	(E) ERICSSON – 4408 B48	TOWER	_	I	-	_	_	_	-	-	-	-	_
B2	700 850 PCS	(E) JMA WIRELESS — MX06FR0840-02	180*	90'-0"	1	(E) ERICSSON - 4449	TOWER	_	I	-	_	_	1	(E) RAYCAP – RVZDC-6627-PF-48	1	(E) HYBRID CABLE	1-1/2"	_
В3	700 850 AWS CBRS	(E) JMA WIRELESS — MX10FR0840-03	180*	90'-0"	1	(E) ERICSSON - 8843	TOWER	_	I	-	-	-	-	-	ı	-	ı	_
В4	C BAND	(E) ERICSSON — AIR6449	180*	92.7'	1	(E) ERICSSON – 4408 B48	TOWER	-	-	-	-	_	-	-	-	-	-	-
G1	700 850	(N) MATSING — MS—MBA—3—L4A2	270°	90'-0"	2	(N) ERICSSON - 4490	TOWER	-	1	-	-	-	-	-	-	-	-	_
G2	PCS	(E) JMA WIRELESS — MX06FR0840-02	270°	90'-0"	1	(E) ERICSSON - 4490	TOWER	_	I	-	_	_	1	(E) RAYCAP – RVZDC-6627-PF-48	1	(E) HYBRID CABLE	1-1/2"	_
G3	AWS CBRS	(E) JMA WIRELESS — MX10FR0840-03	270°	90'-0"	1	(E) ERICSSON — 8843	TOWER	-	I	-	-	-	-	-	-	-	-	_
G4	C BAND	(E) ERICSSON — AIR6449	270°	92.7'	1	(E) ERICSSON – 4408 B48	TOWER	_	I	-	-	_	-	-	ı	-	-	_

	UNUSED	FEE	DLINE	ES
-	-		-	_
-	-		ı	ı

FINAL EQUIPMENT SCHEDULE (1) SCALE: NOT TO SCALE

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VERIZON SITE NUMBER: 5000125815

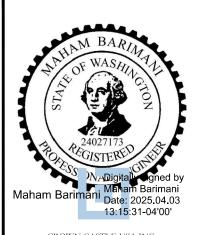
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> 3150 S MERIDIAN PUYALLUP, WA 98373

> > EXISTING 120'-0" MONOPOLE

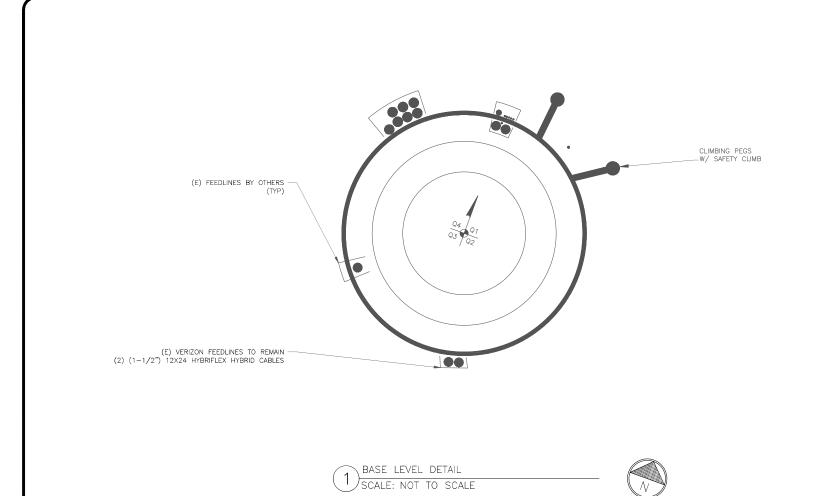
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	ISSUED FOR:						
REV	DATE	DRWN	DESCRIPTION	DES./QA			
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SHEET NUMBER:



COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRUS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.

DO NOT OPEN RRU PACKAGES IN THE RAIN. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE. ANTENNA MOUNTING PIPE MOUNTING BRACKET (SUPPLIED W/ ANTENNA) MOUNTING BRACKET DUAL MOUNT BRACKET AND HARDWARE AND HARDWARE SUPPLIED BY MANUFACTURER (TYP) NEW ANTENNA MOUNTING BRACKET (SUPPLIED W/ ANTENNA) (SUPPLIED W/ ANTENNA) ANTENNA MOUNTING DETAIL 2) SCALE: NOT TO SCALE

ANTENNA SPECS MATSING MANUFACTURER 95.2" × 38.8" × 42.7

MATSING - MS-MBA-3-L4A2 SCALE: NOT TO SCALE

PRCTI20250387





VERIZON SITE NUMBER: 5000125815

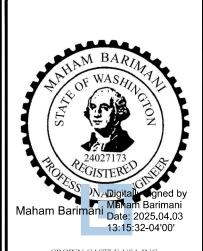
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CROWN CASTLE SITE NAME **SOUTH HILL MALL**

> 3150 S MERIDIAN PUYALLUP, WA 98373

> > EXISTING 120'-0" MONOPOLE

	ISSUED FOR:							
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CROWN CASTLE USA INC. COA #2271

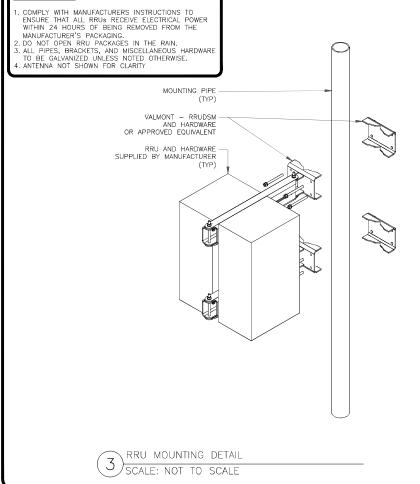
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SHEET NUMBER: REVISION:

Please verify the weight of the antenna. The

RADIO SPECS					
MANUFACTURER	ERICSSON				
MODEL #	4490 B5/B12				
HxWxD	15.12" x 17.48" x 6.77"				
WEIGHT	20.83 LBS				

ERICSSON - 4490 B5/B12 SCALE: NOT TO SCALE



manufacturer's antenna specifications sheet notes the antenna's weight as 308.6lbs. [Reference the marked up document: CONSTRUCTION PLAN SET, sheet C-5]

Azimuth (1) Alpha							
Cell (850 CDMA)	Red						
PCS2 (1900 LTE)	Pink	Red	Pink				
700 LTE	Lt. Green	Red	Lt. Green				
850 LTE	Purple	Red	Purple				
2100 LTE	Orange	Red	Orange				
High Band Dual Band (Shared Lines)	Orange	Pink	Red	Pink	Orange		
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Red	Lt. Green	Purple		
5G 28GHz	Brown	Red	Brown				
5G 39GHz	Blue	Red	Blue				
LAA	Gray	Red	Gray				
CBRS	White	Red	White				
L-Sub6 (C-Band)	Red	Red	Red				

Azimuth (2) Beta							
Cell (850 CDMA)	Blue	Blue					
PCS2 (1900 LTE)	Pink	Blue	Pink				
700 LTE	Lt. Green	Blue	Lt. Green		<i>y</i>		
850 LTE	Purple	Blue	Purple				
2100 LTE	Orange	Blue	Orange				
High Band Dual Band (Shared Lines)	Orange	Pink	Blue	Pink	Orange		
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Blue	Lt. Green	Purple		
5G 28GHz	Brown	Blue	Brown				
5G 39GHz	Blue	Blue	Blue				
LAA	Gray	Blue	Gray				
CBRS	White	Blue	White				
L-Sub6 (C-Band)	Red	Blue	Red				

Azimuth (3) Gamma							
Cell (850 CDMA)	Yellow				1		
PCS2 (1900 LTE)	Pink	Yellow	Pink				
700 LTE	Lt. Green	Yellow	Lt. Green				
850 LTE	Purple	Yellow	Purple				
2100 LTE	Orange	Yellow	Orange				
High Band Dual Band (Shared Lines)	Orange	Pink	Yellow	Pink	Orange		
Low Band Dual Band (Shared Lines)	Putple	Lt. Green	Yellow	Lt Green	Purple		
5G 28GHz	Brown	Yellow	Brown				
5G 39GHz	Blue	Yellow	Blue				
LAA	Gray	Yellow	Gray				
CBRS	White	Yellow	White				
L-Sub6 (C-Band)	Red	Yellow	Red				

Azimuth (4) Delta							
Cell (850 CDMA)	Orange				7		
PCS2 (1900 LTE)	Pink	Orange	Pink				
700 LTE	Lt. Green	Orange	Lt. Green				
850 LTE	Purple	Orange	Purple				
2100 LTE	Orange	Orange	Orange				
High Band Dual Band (Shared Lines)	Orange	Pink	Orange	Pink	Orange		
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Orange	Lt. Green	Purple		
5G 28GHz	Brown	Orange	Brown				
5G 39GHz	Blue	Orange	Blue				
LAA	Gray	Orange	Gray				
CBRS	White	Orange	White				
L-Sub6 (C-Band)	Red	Orange	Red				

Azimuth (5) Epsilon							
Cell (850 CDMA)	White						
PCS2 (1900 LTE)	Pink	White	Pink				
700 LTE	Lt. Green	White	Lt. Green				
850 LTE	Purple	White	Purple				
2100 LTE	Orange	White	Orange				
High Band Dual Band (Shared Lines)	Orange	Pink	White	Pink	Orange		
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	White	Lt. Green	Purple		
5G 28GHz	Brown	White	Brown				
5G 39GHz	Blue	White	Blue				
LAA	Gray	White	Gray				
CBRS	White	White	White				
L-Sub6 (C-Band)	Red	White	Red				

Azimuth (6) Zeta							
Cell (850 CDMA)	Gray						
PCS2 (1900 LTE)	Pink	Gray	Pink				
700 LTE	Lt. Green	Gray	Lt. Green				
850 LTE	Purple	Gray	Purple				
2100 LTE	Orange	Gray	Orange				
High Band Dual Band (Shared Lines)	Orange	Pink	Gray	Pink	Orange		
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Gray	Lt. Green	Purple		
5G 28GHz	Brown	Gray	Brown				
5G 39GHz	Blue	Gray	Blue				
LAA	Gray	Gray	Gray				
CBRS	White	Gray	White				
L-Sub6 (C-Band)	Red	Gray	Red				

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VERIZON SITE NUMBER: 5000125815

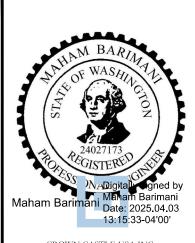
BU #: **880329**

CROWN CASTLE SITE NAME SOUTH HILL MALL

> 3150 S MERIDIAN PUYALLUP, WA 98373

> > EXISTING 120'-0" MONOPOLE

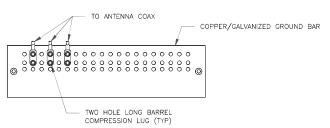
\bigcap	ISSUED FOR:						
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SHEET NUMBER:



- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.

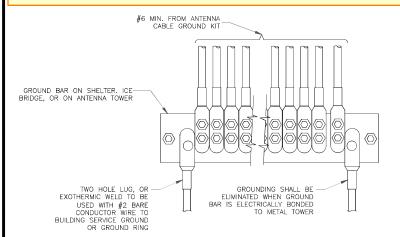
 EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.

 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

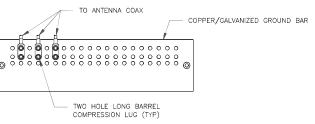
ANTENNA SECTOR GROUND BAR DETAIL SCALE: NOT TO SCALE

Separate Electrical Permit is required with the Washington State Department of

https://lni.wa.gov/licensing-permits/electrical/electrical-permits-fees-and-inspections or call for Licensing Information: 1-800-647-0982



GROUNDWIRE INSTALLATION (4) SCALE: NOT TO SCALE



TWO HOLE LONG BARREL COMPRESSION LUG

TO ANTENNA COAX

◎◎○◎○◎○○○○○○○○○○

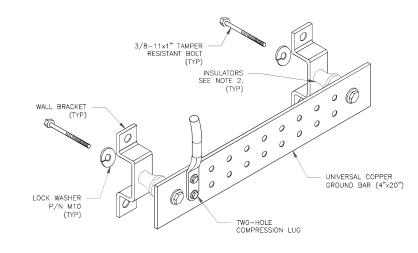
EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

COPPER/GALVANIZED GROUND BAR

#2 SOLID TINNED COPPER CONDUCTOR TO TOWER/SHELTER GROUND RING (2 TYP. FOR

BOTTOM GROUND BAR ONLY)

TOWER/SHELTER GROUND BAR DETAIL SCALE: NOT TO SCALE

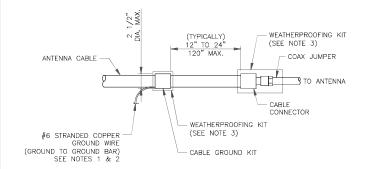


1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY OAS—STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD—WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

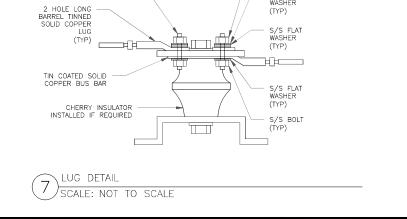
GROUND BAR DETAIL SCALE: NOT TO SCALE

NOTE: MINIMUM OF

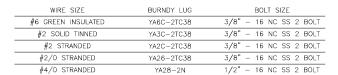


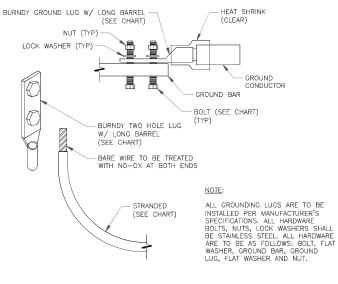
NOTES:

- 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
- CABLE GROUND KIT CONNECTION SCALE: NOT TO SCALE

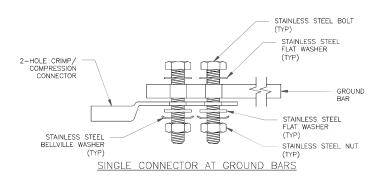


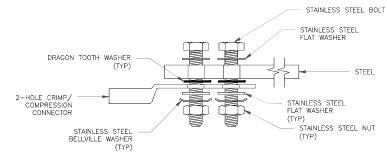
S/S NUT (TYP)



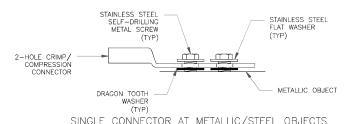


MECHANICAL LUG CONNECTION SCALE: NOT TO SCALE





SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

HARDWARE DETAIL FOR EXTERIOR CONNECTIONS 8 SCALE: NOT TO SCALE

PRCTI20250387





VERIZON SITE NUMBER: 5000125815

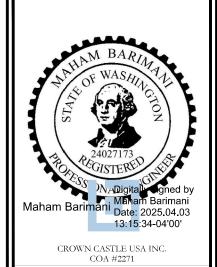
BU #: 880329

CROWN CASTLE SITE NAME SOUTH HILL MALL

> 3150 S MERIDIAN PUYALLUP, WA 98373

EXISTING 120'-0" MONOPOLE

	ISSUED FOR:						
REV	DATE	DRWN	DESCRIPTION	DES./QA			
0	8/28/24	AJC	CONSTRUCTION	MB			
1	2/11/25	AJC	CONSTRUCTION	MB			
2	4/3/25	AJC	CONSTRUCTION	MB			



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