

APPLICABLE BUILDING CODES AND STANDARDS

ALL WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

PSE&G SAFETY, ENGINEERING AND CONSTRUCTION DESIGN SPECIFICATION STANDARDS
PSE&G/CROWN JOINT POLE AGREEMENT (AS APPLICABLE)

ALL THIRD PARTY ATTACHMENTS ARE TO BE IN COMPLIANCE WITH THE LATEST VERSION OF PSE&G ENGINEERING AND CONSTRUCTION GUIDELINES FOR THIRD PARTY ANTENNA SYSTEMS MOUNTED ON PSE&G DISTRIBUTION WOOD POLES

ELECTRICAL CODE: NFPA 70-2020, NATIONAL ELECTRIC CODE

LIGHTNING PROTECTION CODE: NFPA 780 - 2006, LIGHTNING PROTECTION

IEEE C2 NATIONAL ELECTRIC SAFETY CODE (NEC) 2012

TIA-222-H-16, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES, TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

TELCORDIA GR-63-CORE, NEBS REQUIREMENTS: PHYSICAL PROTECTION

TELCORDIA GR-78-CORE, GENERIC REQUIREMENTS FOR THE PHYSICAL DESIGN AND MANUFACTURE OF TELECOMMUNICATIONS EQUIPMENT

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELCOM, ENVIRONMENTAL PROTECTION

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING ELECTRONIC EQUIPMENT

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.



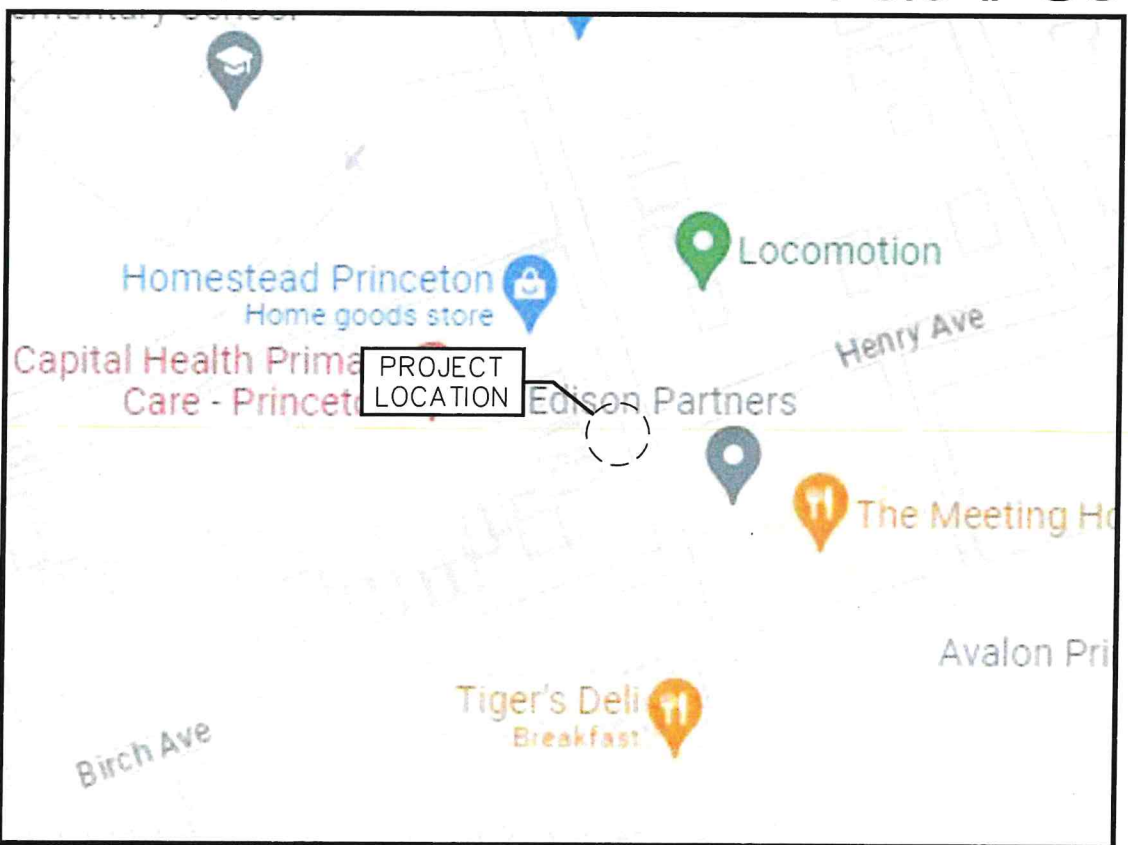
Crown Castle Fiber LLC
288 Witherspoon St
Jurisdiction: Municipality of Princeton
Proposed Small Cell Node
Pole #: SO-PT-POLE-61986

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DWG #	DRAWING TITLE
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SCU #: 528020

PROJECT SUMMARY

CROWN CASTLE ID: PRC-063
 SCU #: 528020
 CARRIER ID: PH6025BA_31LAB
 LOCATION: 288 Witherspoon St, Municipality of Princeton, MERCER
 SITE COORDINATES: 40.35757000 N, -74.66323000 W
 POLE TYPE/CLASS: UTILITY POLE/CLASS 4 (EXISTING)
 POLE NUMBER: SO-PT-POLE-61986
 POWER COMPANY: PSE&G
 APPLICANT: CROWN CASTLE, 111 MARKET PLACE, SUITE 103, BALTIMORE, MD 21202
 CROWN CASTLE CONTACT: DAN POLISKY, (267) 400-6223
 ENGINEER: FRENCH & PARRELO ASSOCIATES, 2 RIVERSIDE DRIVE, SUITE 503, CAMDEN, NJ 08101
 CONTACT: ANTHONY CRISTIANO, (732) 312-9824



LOCATION MAP

Latitude: 40.35757000°N
 Longitude: -74.66323000°W
 Block: 6902, Lot: 8



NODE PLACEMENT

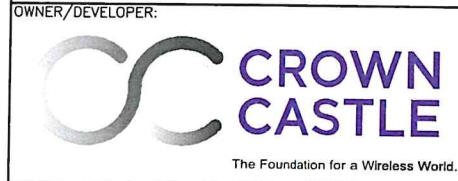
288 Witherspoon St
 Existing PSE&G wood pole
 on the west SIDE of Witherspoon St
 between Henry Ave & Birch St
 Pole ID: SO-PT-POLE-61986



Know what's below.
Call before you dig.



Peter J. Tardy 08/12/2025
 PETER J. TARDY, PE
 NEW JERSEY PROFESSIONAL ENGINEER LIC. NO. 41990



TITLE: Crown Castle Fiber LLC
 Pole #: SO-PT-POLE-61986
 288 WITHERSPOON STREET
 PRINCETON, NJ
 JURISDICTION: MUNICIPALITY OF PRINCETON

REVISIONS

REV.	DATE	REVISION DESCRIPTION
3	06/25/24	REVISED PER PSE&G COMMENTS
4	03/05/25	REVISED PER COMMENTS & EME REPORT
5	03/31/25	REVISED PER PSE&G COMMENTS
6	06/05/25	REVISED PER COMMENTS
7	08/12/25	REVISED PER COMMENTS

DRAWN BY:	CHECKED BY:	APPROVED BY:
D.R.	A.R.C.	P.J.T.

PROJECT NUMBER: 2438C.125.003

NODE ID: PRC-063

SCU # / CASCADE ID: 528020/PH6025BA_31LAB

DATE DRAWN: 09/13/2023

SHEET: 1 of 9

GENERAL NOTES

PROJECT INFORMATION

THE FOLLOWING NOTES ARE NOT SPECIFIC TO THIS PROJECT. ALL NOTES THAT APPLY TO THE WORK SHOWN IN THESE CONSTRUCTION DOCUMENTS SHALL BE UTILIZED BY THE CONTRACTOR.

PART 1 - GENERAL REQUIREMENTS

1.1 THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:

- A. GR-63-CORE NEBS REQUIREMENTS: PHYSICAL PROTECTION
B. GR-78-CORE GENERIC REQUIREMENTS FOR THE PHYSICAL DESIGN AND MANUFACTURE OF TELECOMMUNICATIONS EQUIPMENT.
C. NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS (NFPA) INCLUDING NFPA 70 (NATIONAL ELECTRICAL CODE - "NEC").
D. NFPA 101 (LIFE SAFETY CODE).
E. AMERICAN SOCIETY FOR TESTING OF MATERIALS (ASTM).
F. INSTITUTE OF ELECTRONIC AND ELECTRICAL ENGINEERS (IEEE).
G. PSE&G SAFETY, ENGINEERING AND CONSTRUCTION DESIGN SPECIFICATION STANDARDS
H. PSE&G/VERIZON JOINT POLE AGREEMENT.

1.2 DEFINITIONS:

- A. WORK: THE SUM OF TASKS AND RESPONSIBILITIES IDENTIFIED IN THE CONTRACT DOCUMENTS.
B. COMPANY: APPLICANT
C. ENGINEER: SYNONYMOUS WITH ARCHITECT & ENGINEER AND "A&E". THE DESIGN PROFESSIONAL HAVING PROFESSIONAL RESPONSIBILITY FOR DESIGN OF THE PROJECT.
D. CONTRACTOR: CONSTRUCTION CONTRACTOR; CONSTRUCTION VENDOR; INDIVIDUAL OR ENTITY WHO AFTER EXECUTION OF A CONTRACT IS BOUND TO ACCOMPLISH THE WORK.
E. THIRD PARTY VENDOR OR AGENCY: A VENDOR OR AGENCY ENGAGED SEPARATELY BY THE COMPANY, A&E, OR CONTRACTOR TO PROVIDE MATERIALS OR TO ACCOMPLISH SPECIFIC TASKS RELATED TO BUT NOT INCLUDED IN THE WORK.

1.3 POINT OF CONTACT: COMMUNICATION BETWEEN THE COMPANY AND THE CONTRACTOR SHALL FLOW THROUGH THE SINGLE COMPANY SITE DEVELOPMENT SPECIALIST OR OTHER PROJECT COORDINATOR APPOINTED TO MANAGE THE PROJECT FOR THE COMPANY.

1.4 ON-SITE SUPERVISION: THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK.

1.5 DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE: THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS, STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES, AND THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES AT THE JOBSITE FROM MOBILIZATIONS THROUGH CONSTRUCTION COMPLETION.

A. THE JOBSITE DRAWINGS, SPECIFICATIONS AND DETAILS SHALL BE CLEARLY MARKED DAILY IN PENCIL WITH ANY CHANGES IN CONSTRUCTION OVER WHAT IS DEPICTED IN THE DOCUMENTS. AT CONSTRUCTION COMPLETION, THE JOBSITE MARKUP SET SHALL BE DELIVERED TO THE COMPANY OR COMPANY'S DESIGNATED REPRESENTATIVE TO BE FORWARDED TO THE COMPANY'S A&E VENDOR FOR PRODUCTION OF "AS-BUILT" DRAWINGS.

1.6 USE OF JOB SITE: THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION AND RELATED OPERATIONS INCLUDING STAGING AND STORAGE OF MATERIALS AND EQUIPMENT, PARKING, TEMPORARY FACILITIES, AND WASTE STORAGE TO THE LEASE PARCEL UNLESS OTHERWISE PERMITTED BY THE CONTRACT DOCUMENTS.

1.7 NOTICE TO PROCEED:

- A. NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED.
B. UPON RECEIVING NOTICE TO PROCEED, CONTRACTOR SHALL FULLY PERFORM ALL WORK NECESSARY TO PROVIDE COMPANY. WITH AN OPERATIONAL WIRELESS FACILITY.

PART 2 - EXECUTION

2.1 TEMPORARY UTILITIES AND FACILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND FACILITIES NECESSARY EXCEPT AS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS. TEMPORARY UTILITIES AND FACILITIES INCLUDE POTABLE WATER, HEAT, HVAC, ELECTRICITY, SANITARY FACILITIES, WASTE DISPOSAL FACILITIES, AND TELEPHONE/COMMUNICATION SERVICES. PROVIDE TEMPORARY UTILITIES AND FACILITIES IN ACCORDANCE WITH OSHA AND THE AUTHORITY HAVING JURISDICTION. CONTRACTOR MAY UTILIZE THE COMPANY ELECTRICAL SERVICE IN THE COMPLETION OF THE WORK WHEN IT BECOMES AVAILABLE. USE OF THE LESSORS OR SITE OWNER'S UTILITIES OR FACILITIES IS EXPRESSLY FORBIDDEN EXCEPT AS OTHERWISE ALLOWED IN THE CONTRACT DOCUMENTS.

2.2 ACCESS TO WORK: THE CONTRACTOR SHALL PROVIDE ACCESS TO THE JOB SITE FOR AUTHORIZED COMPANY PERSONNEL AND AUTHORIZED REPRESENTATIVES OF THE ARCHITECT/ENGINEER DURING ALL PHASES OF THE WORK.

2.3 TESTING: REQUIREMENTS FOR TESTING BY THIS CONTRACTOR SHALL BE AS INDICATED HEREWITH, ON THE CONSTRUCTION DRAWINGS, AND IN THE INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS. SHOULD COMPANY CHOOSE TO ENGAGE ANY THIRD-PARTY TO CONDUCT ADDITIONAL TESTING, THE CONTRACTOR SHALL COOPERATE WITH AND PROVIDE A WORK AREA FOR COMPANY'S TEST AGENCY.

2.4 COMPANY FURNISHED MATERIAL AND EQUIPMENT: ALL HANDLING, STORAGE AND INSTALLATION OF COMPANY FURNISHED MATERIAL AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

A. CONTRACTOR SHALL PROCURE ALL OTHER REQUIRED WORK RELATED MATERIALS NOT PROVIDED BY COMPANY TO SUCCESSFULLY CONSTRUCT A WIRELESS FACILITY.

2.5 DIMENSIONS: VERIFY DIMENSIONS INDICATED ON DRAWINGS WITH FIELD DIMENSIONS BEFORE FABRICATION OR ORDERING OF MATERIALS. DO NOT SCALE DRAWINGS.

2.6 EXISTING CONDITIONS: NOTIFY THE COMPANY REPRESENTATIVE OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS. DO NOT REMOVE OR ALTER STRUCTURAL COMPONENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.

2.7 CONTRACTOR SHALL CONTACT ONE CALL A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION WHEN COMPLETING ANY UNDERGROUND UTILITY WORK.

PART 3 - RECEIPT OF MATERIAL & EQUIPMENT

3.1 RECEIPT OF MATERIAL AND EQUIPMENT: CONTRACTOR IS RESPONSIBLE FOR COMPANY PROVIDED MATERIAL AND EQUIPMENT AND UPON RECEIPT SHALL:

- A. ACCEPT DELIVERIES AS SHIPPED AND TAKE RECEIPT.
B. VERIFY COMPLETENESS AND CONDITION OF ALL DELIVERIES.
C. TAKE RESPONSIBILITY FOR EQUIPMENT AND PROVIDE INSURANCE PROTECTION AS REQUIRED IN AGREEMENT.
D. RECORD ANY DEFECTS OR DAMAGES WITHIN TWENTY-FOUR HOURS AFTER RECEIPT AND REPORT TO COMPANY OR ITS DESIGNATED PROJECT REPRESENTATIVE OF SUCH.
E. PROVIDE SECURE AND NECESSARY WEATHER PROTECTED WAREHOUSING.
F. COORDINATE SAFE AND SECURE TRANSPORTATION OF MATERIAL AND EQUIPMENT, DELIVERING AND OFF-LOADING FROM CONTRACTOR'S WAREHOUSE TO SITE.

PART 4 - GENERAL REQUIREMENTS FOR CONSTRUCTION

4.1 CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS.

4.2 EQUIPMENT AREA SHALL AT ALL TIMES BE MAINTAINED "BROOM CLEAN" AND CLEAR OF DEBRIS.

4.3 CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO DISCOVER AND LOCATE ANY HAZARDOUS CONDITION.

- A. IN THE EVENT CONTRACTOR ENCOUNTERS ANY HAZARDOUS CONDITION WHICH HAS NOT BEEN ABATED OR OTHERWISE MITIGATED, CONTRACTOR AND ALL OTHER PERSONS SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY COMPANY IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN NOTIFICATION BY COMPANY.
B. CONTRACTOR AGREES TO USE CARE WHILE ON THE SITE AND SHALL NOT TAKE ANY ACTION THAT WILL OR MAY RESULT IN OR CAUSE THE HAZARDOUS CONDITION TO BE FURTHER RELEASED IN THE ENVIRONMENT, OR TO FURTHER EXPOSE INDIVIDUALS TO THE HAZARD.

4.4 CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. SHOULD AREA OUTSIDE THE PROJECT LIMITS BE AFFECTED BY CONTRACTOR'S ACTIVITIES, CONTRACTOR SHALL IMMEDIATELY RETURN THEM TO ORIGINAL CONDITION.

4.5 CONDUCT TESTING AS REQUIRED HEREIN.

4.6 INSTALLATION, MAINTENANCE, AND REPAIR UNDER ENERGIZED CONDITIONS SHALL BE CONDUCTED USING APPROPRIATE INSULATED EQUIPMENT SUCH AS RUBBER GLOVES, SLEEVES, AND TEMPORARY RUBBER CONDUCTOR INSULATION TO LIMIT SERVICE INTERRUPTIONS.

4.7 ALL HARDWARE USED TO SUPPORT THE EQUIPMENT SHALL BE GALVANIZED IN NEW CONDITION, MADE BY A REPUTABLE MANUFACTURER, DESIGNED SPECIFICALLY FOR THE INTENDED USE AND CAPABLE OF WITHSTANDING ALL DESIGNED LOADS.

PART 5 - TEST AND INSPECTIONS

5.1 TESTS AND INSPECTIONS:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
B. CONTRACTOR SHALL COORDINATE TEST AND INSPECTION SCHEDULES WITH COMPANY'S REPRESENTATIVE WHO MUST BE ON SITE TO WITNESS SUCH TESTS AND INSPECTIONS.
C. THE THIRD PARTY TESTING AGENCY IS TO BE FAMILIAR WITH THE APPLICABLE REQUIREMENTS FOR THE TESTS TO BE DONE, EQUIPMENT TO BE USED, AND ASSOCIATED HEALTH AND SAFETY ISSUES.
D. SITE RESISTANCE TO EARTH TESTING PER EXHIBIT: CELL SITE GROUNDING SYSTEM DESIGN.
E. ANTENNA AND COAX SWEEP TESTS PER EXHIBIT: ANTENNA TRANSMISSION LINE ACCEPTANCE STANDARDS.
F. ALL OTHER TESTS REQUIRED BY COMPANY OR JURISDICTION.

PART 6 - TRENCHING AND BACKFILLING

6.1 TRENCHING AND BACKFILLING:

- A. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION OF EVERY DESCRIPTION AND OF WHATEVER SUBSTANCES ENCOUNTERED, TO THE DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS OTHERWISE SPECIFIED.
B. PROTECTION OF EXISTING UTILITIES: THE CONTRACTOR SHALL CHECK WITH THE LOCAL UTILITIES AND THE RESPECTIVE UTILITY LOCATOR COMPANIES PRIOR TO STARTING EXCAVATION OPERATIONS IN EACH RESPECTIVE AREA TO ASCERTAIN THE LOCATIONS OF KNOWN UTILITY LINES. THE LOCATIONS, NUMBER AND TYPES OF EXISTING UTILITY LINES DETAILED ON THE CONSTRUCTION DRAWINGS ARE APPROXIMATE AND DO NOT REPRESENT EXACT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LINES DAMAGED DURING EXCAVATION AND ALL ASSOCIATED OPERATIONS. ALL UTILITY LINES UNCOVERED DURING THE EXCAVATION OPERATIONS SHALL BE PROTECTED FROM DAMAGE DURING EXCAVATION AND ASSOCIATED OPERATIONS. ALL REPAIRS SHALL BE APPROVED BY THE UTILITY COMPANY.
C. HAND DIGGING: UNLESS APPROVED IN WRITING OTHERWISE, ALL DIGGING IS TO BE DONE BY HAND.
D. DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE STOCKPILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE BANKS OF THE TRENCH TO AVOID OVERLOADING AND TO PREVENT SLIDES OR CAVE-INS. ALL EXCAVATED MATERIALS NOT REQUIRED OR SUITABLE FOR BACKFILL SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
E. GRADING SHALL BE DONE AS MAY BE NECESSARY TO PREVENT SURFACE WATER FROM FLOWING INTO TRENCHES OR OTHER EXCAVATIONS, AND ANY WATER ACCUMULATING THEREIN SHALL BE REMOVED BY PUMPING OR BY OTHER APPROVED METHOD.
F. SHEETING AND SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. UNLESS OTHERWISE INDICATED, EXCAVATION SHALL BE BY OPEN CUT, EXCEPT THAT SHORT SECTIONS OF A TRENCH MAY BE TUNNELED IF THE CONDUIT CAN BE SAFELY AND PROPERLY INSTALLED AND BACKFILL CAN BE PROPERLY TAMPED IN SUCH TUNNEL SECTIONS. EARTH EXCAVATION SHALL COMPRISE ALL MATERIALS AND SHALL INCLUDE CLAY, SILT, SAND, MUCK, GRAVEL, HARDPAN, LOOSE SHALE, AND LOOSE STONE.
G. TRENCHES SHALL BE OF NECESSARY WIDTH FOR THE PROPER LAYING OF THE CONDUIT OR CABLE, AND THE BANKS SHALL BE AS NEARLY VERTICAL AS PRACTICABLE. THE BOTTOM OF THE TRENCHES SHALL BE ACCURATELY GRADED TO PROVIDE UNIFORM BEARING AND SUPPORT FOR EACH SECTION OF THE CONDUIT OR CABLE ON UNDISTURBED SOIL AT EVERY POINT ALONG ITS ENTIRE LENGTH. EXCEPT WHERE ROCK IS ENCOUNTERED, CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED. WHERE ROCK EXCAVATIONS ARE NECESSARY, THE ROCK SHALL BE EXCAVATED TO A MINIMUM OVER DEPTH OF 6 INCHES BELOW THE TRENCH DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR SPECIFIED. OVER DEPTHS IN THE ROCK EXCAVATION AND UNAUTHORIZED OVER DEPTHS SHALL BE THOROUGHLY BACK FILLED AND TAMPED TO THE APPROPRIATE GRADE. WHENEVER WET OR OTHERWISE UNSTABLE SOIL THAT IS INCAPABLE OF PROPERLY SUPPORTING THE CONDUIT OR CABLE IS ENCOUNTERED IN THE BOTTOM OF THE TRENCH, SUCH SOLID SHALL BE REMOVED TO A MINIMUM OVER DEPTH OF 6 INCHES AND THE TRENCH BACKFILLED TO THE PROPER GRADE WITH EARTH OF OTHER SUITABLE MATERIAL, AS HEREINAFTER SPECIFIED.
H. BACKFILLING OF TRENCHES: TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL SPECIFIED TESTS HAVE BEEN PERFORMED AND ACCEPTED. WHERE COMPACTED BACKFILL IS NOT INDICATED THE TRENCHES SHALL BE CAREFULLY BACKFILLED WITH SELECT MATERIAL SUCH AS EXCAVATED SOILS THAT ARE FREE OF ICE, SNOW, ROOTS, SOD, RUBBISH OR STONES, DEPOSITED IN 6 INCH LAYERS AND THOROUGHLY AND CAREFULLY RAMMED UNTIL THE CONDUIT OR CABLE HAS A COVER OF NOT LESS THAN 1 FOOT. THE REMAINDER OF THE BACKFILL MATERIAL SHALL BE GRANULAR IN NATURE AND SHALL NOT CONTAIN ICE, SNOW, ROOTS, SOD, RUBBISH, OR STONES OF 2-1/2 INCH MAXIMUM DIMENSION. BACKFILL SHALL BE CAREFULLY PLACED IN THE TRENCH AND IN 1 FOOT LAYERS AND EACH LAYER TAMPED. SETTling THE BACKFILL WITH WATER WILL BE PERMITTED. THE SURFACE SHALL BE GRADED TO A REASONABLE UNIFORMITY AND THE MOUNDING OVER THE TRENCHES LEFT IN A UNIFORM AND NEAT CONDITION.

THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT FACILITY AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC WIRELESS COMMUNICATIONS SERVICE.

NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.

NO WASTE WATER WILL BE GENERATED AT THIS LOCATION.

NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.

COMPANY MAINTENANCE CREW (TYPICALLY ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE HOUR PER VISIT.

PSE&G OPERATIONAL SAFETY PROCEDURES

- 1. INTERFERENCE WITH ANY PSE&G COMMUNICATION OR DISTRIBUTION AUTOMATION RADIO SYSTEM WILL NOT BE PERMITTED. THE RADIO SYSTEM IS THE PRIMARY COMMUNICATION FOR EMPLOYEES OF PSE&G AND IS ESSENTIAL FOR RESPONSE TO EMERGENCIES. THIS NON-INTERFERENCE CLAUSE SHALL APPLY EVEN IF THE PSE&G RADIO EQUIPPED VEHICLE OR HANDHELD UNIT IS TEMPORARILY LOCATED NEAR THE ANTENNA SYSTEM WHILE PERFORMING WORK.
2. THE LICENSEE IS RESPONSIBLE FOR PLACING A SIGN NEAR THE POWER SUPPLY INDICATING A 24-HOUR CONTACT TELEPHONE NUMBER AND SITE IDENTIFICATION IN CASE OF EMERGENCY. THE PHONE NUMBER MUST BE VISIBLE FROM THE GROUND AND THE SIGN MUST BE EASILY READABLE, ULTRAVIOLET (UV) RESISTANT MATERIAL.
3. SIGNAGE IS TO BE PLACED BY THE LICENSEE REGARDING RF EMISSIONS IN ACCORDANCE WITH THE LATEST IEEE & OSHA STANDARDS CONSISTENT WITH THE REQUIREMENTS OUTLINED IN THE RF STUDY INCLUDED WITH THIS SUBMITTAL. A SMALL CELL SITE IDENTIFIER SIGN IS TO BE INSTALLED IN PROXIMITY TO THE METER AND/OR DISCONNECT.
4. THE LICENSEE'S POWER SUPPLY MUST BE EQUIPPED WITH A MEANS OF DISCONNECT BETWEEN THE POWER SOURCE AND THE EQUIPMENT. THE LICENSEE'S MEANS OF DISCONNECT MUST CUTOFF AC POWER TO THE EQUIPMENT AND BACKUP BATTERY POWER (IF APPLICABLE). THE POWER SUPPLY WILL BE EQUIPPED WITH AN EXTERNAL INDICATOR LIGHT THAT WILL VERIFY THE LICENSEE'S EQUIPMENT HAS BEEN RENDERED INOPERABLE. ALL ASPECTS OF THE TOTAL INSTALLATION SHALL BE IN ADHERENCE TO THE CURRENT EDITIONS OF BOTH THE NESC AND THE NEC.

CONSTRUCTION NOTES

- 1. CONTRACTOR TO CALL ONE CALL 72 HOURS PRIOR TO EXCAVATING.
2. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.

GROUNDING NOTES

- 1. GROUND TESTED AT 25 OHMS OR LESS. CONTRACTOR TO PROVIDE EVIDENCE OF CONFORMING GROUNDING SYSTEM TO ENGINEER.
2. GROUND RODS SHALL BE "COPPER WELD" STEEL, 5/8" DIA X 8' LONG.
3. GROUND CONDUCTOR TRUNK SHALL BE MEDIUM HARD DRAWN, SOLID, INSULATED NO. 4 AWG COPPER. INSULATION THICKNESS SHALL BE 60 MILS OF UNFILLED, BLACK, CROSS-LINKED POLYETHYLENE BEARING THE MANUFACTURER'S NAME AND YEAR OF MANUFACTURE IMPRINTED ON THE CONDUCTOR AT INTERVALS OF APPROXIMATELY ONE FOOT.
4. GROUND CONDUCTOR TRUNK SHALL BE CLEARLY IDENTIFIED WITH A BRASS TAG OR OTHER ACCEPTABLE MEANS, ATTACHED TO THE CONDUCTOR AT THE BASE OF THE POLE, INDICATING COMPANY'S IDENTIFICATION.
5. ALL CONNECTORS SHALL BE BRASS.
6. ALL METALLIC PARTS OF THE INSTALLATION ON THE POLE SHALL BE BONDED TOGETHER AND GROUNDED TO COMPANY'S GROUNDING SYSTEM.
7. CONTRACTOR SHALL LEAVE GROUND VISIBLE UNTIL ELECTRICAL INSPECTION COMPLETED, THEN DRIVE 6" BELOW GRADE

UTILITY POLE CONSTRUCTION NOTES

- 1. NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2".
2. FILL ALL HOLES LEFT IN POLE FROM REARRANGEMENT OF CUMBERS.
3. CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE.
4. USE CABLE CLAMPS TO SECURE CABLE TO ARMS. PLACE 2" CABLE ID TAGS ON BOTH SIDES OF ARMS. ALL TAGS SHOULD BE SECURELY ATTACHED.
5. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.
6. EQUIPMENT/ANTENNA SPACING NEAR POWER LINES AND COMMUNICATIONS CABLES TO BE INSTALLED PER POLE OWNER/UTILITY COMPANY SPECIFICATIONS.
7. CLEARANCE TO CONDUCTOR VALUES FOR EACH VOLTAGE CLASS SHALL BE IN ACCORDANCE WITH NESC 235C, H, I AND TABLE 235-6 U.N.O.
8. CONTRACTOR TO ROUTE FIBER AND POWER AERIALLY TO NEAREST UTILITY DEMARK UNLESS OTHERWISE SPECIFIED. FIELD VERIFY LOCATIONS PRIOR TO CONSTRUCTION.
9. MAINTAIN 12" SPACE BETWEEN PROPOSED AND EXISTING COMS.
10. ALL EQUIPMENT ATTACHED TO THE POLE SHALL BE THROUGH BOLTED.

Peter J. Tardy PE 08/12/2025 DATE
NEW JERSEY PROFESSIONAL ENGINEER LIC. NO. 41990

FPA FRENCH & PARRELO ASSOCIATES
Camden Office: 2 Riverside Drive, Suite 503 Camden, New Jersey 08101 609.862.1582
New Jersey New York Pennsylvania Georgia

CROWN CASTLE
The Foundation for a Wireless World.

TITLE: Crown Castle Fiber LLC
Pole #: SO-PT-POLE-61986
288 WITHERSPOON STREET
PRINCETON, NJ
JURISDICTION: MUNICIPALITY OF PRINCETON

Table with 2 columns: REV. DATE, REVISION DESCRIPTION. Contains 7 rows of revision data.

DRAWN BY: D.R. CHECKED BY: A.R.C. APPROVED BY: P.J.T.

PROJECT NUMBER: 2438C.125.003

NODE ID: PRC-063

SCU # / CASCADE ID: 528020/PH6025BA_31LAB

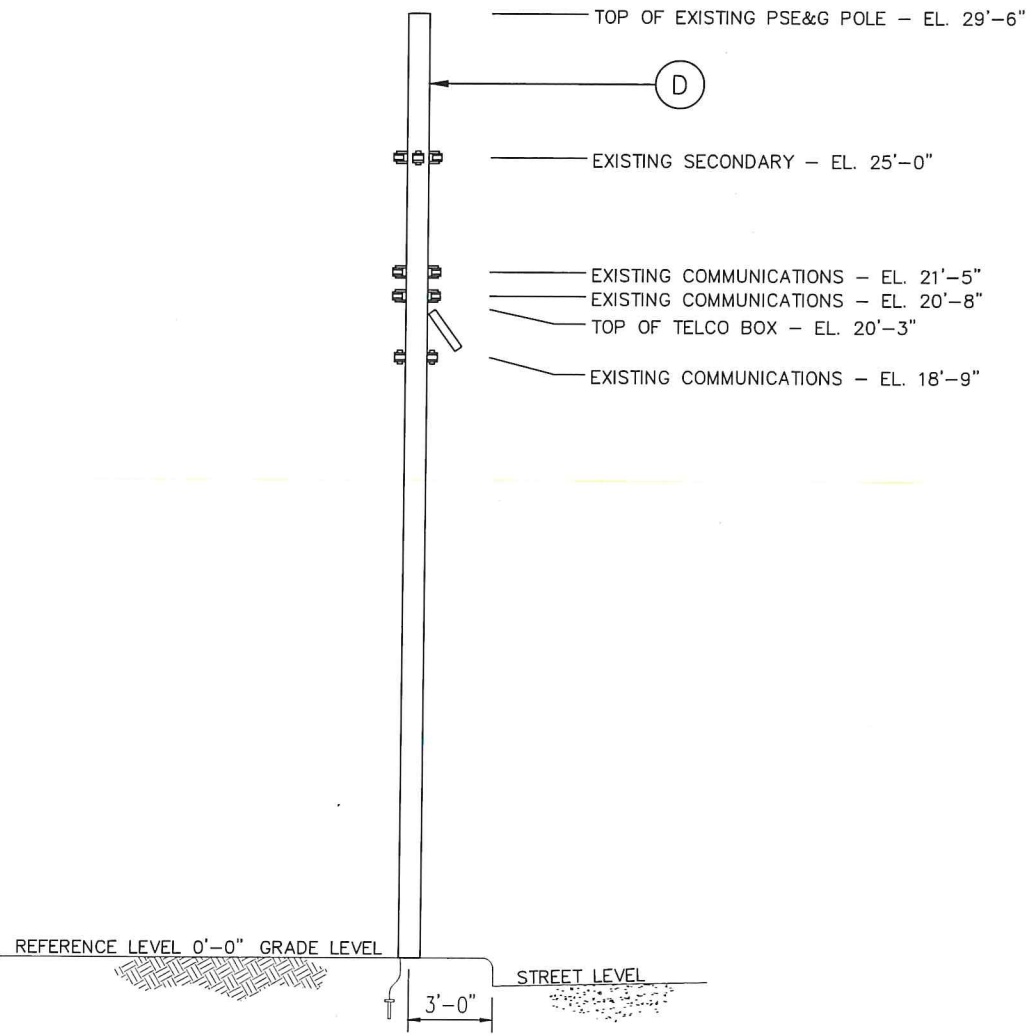
DATE DRAWN: 09/13/2023

SHEET: 2 of 9

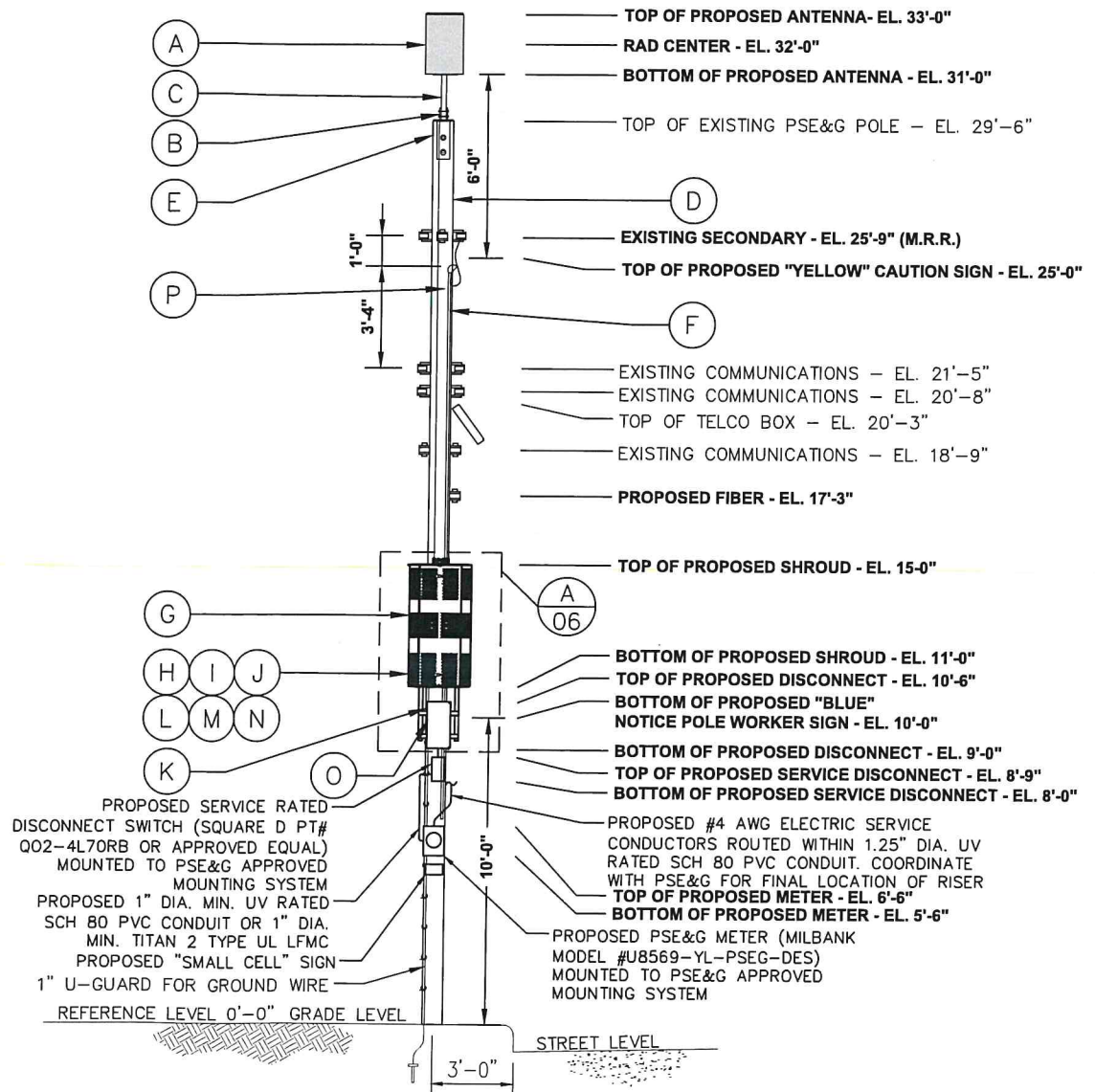
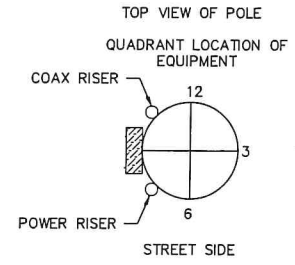
- GENERAL NOTES:**
1. ALL EQUIPMENT MOUNTING HARDWARE TO BE STAINLESS STEEL OR GALVANIZED.
 2. OWNER AND CONTACT INFORMATION TO BE CLEARLY MARKED AND READABLE FROM GROUND LEVEL.
 3. PROPER OSHA SIGN AND SYMBOL TO BE CLEARLY MARKED AND READABLE FROM GROUND LEVEL AND MAINTAINED BY OWNER.
 4. SERVICE DISCONNECT TO BE CLEARLY MARKED.
 5. THIRD PARTY ATTACHMENT CUSTOMER TO PROVIDE POLE LOADING ANALYSIS AS REQUIRED.
 6. CONDUIT TO BE INSTALLED IN A MANNER TO PREVENT WATER ENTRY.
 7. ELECTRICAL EQUIPMENT TO BE CONNECTED TO DRIVEN GROUND ROD IN COMPLIANCE WITH ALL APPLICABLE CODES.
 8. FINAL CONFIGURATION PENDING POTENTIAL MAKE READY WORK TO BE PERFORMED BY POLE OWNER OR UTILITY OWNER.
 9. VERTICAL CONDUIT ROUTING TO BE INSTALLED SO AS NOT TO INTERFERE WITH EXISTING OBSTRUCTIONS.
 10. CONTRACTOR TO NOTIFY APPLICANT IF UTILITY POLE APPURTENANCES DIFFER FROM DRAWINGS AND/OR INTERFERE WITH PROPOSED INSTALLATIONS.

NOTE:
ALL NEW ANTENNA, EQUIPMENT SHROUD, METER, DISCONNECT, CONDUIT WIRING, AND ASSOCIATED MOUNTING EQUIPMENT AND HARDWARE SHALL BE BLACK WITH A MATT FINISH.

- PROPOSED ANTENNA:
(1) AMPHENOL 2C6U2VT360X06Fwxs4
24.0"x14.6" (HxD) - 28.0 LBS
- INSTALL ANTENNA MOUNTING BRACKET
- INSTALL POLE TOP MOUNT
- EXISTING UTILITY POLE TO REMAIN
TOP HEIGHT = 29'-6" (AGL)
- INSTALL 2" PVC RISER U-GUARD:
PROPOSED #4 AWG GROUND WIRE AND COAX/FIBER CABLES TO BE ROUTED WITHIN
- INSTALL 1.25" PVC SCH. 80 POWER RISER CONDUIT FROM METER TO SECONDARY
- INSTALL SHROUD CABINET:
RAYCAP RAES-235418-C35
48.0"x24.0"x24.0" (HxWxD) - 433 LBS
INTERNAL ERICSSON COMPONENTS TO BE INSTALLED:
OAD-9-S, PSU AC DB, & FRONTHAUL 6585
EQUIPMENT COLOR: MATT BLACK
TO BE THRU-BOLTED TO POLE
- INSTALL RADIO UNIT WITHIN NEW SHROUD CABINET:
(1) ERICSSON RADIO 4455 B2/B25 B66A
31.3"x10.9"x5.9" (HxWxD) - 67.2 LBS
- INSTALL RADIO UNIT WITHIN NEW SHROUD CABINET:
(1) ERICSSON RADIO 8863 B41 W/FAN
18.1"x14.8"x5.7" (HxWxD) - 50.9 LBS
- INSTALL DIPLEXER WITHIN NEW SHROUD CABINET:
(1) KAELUS DBCT156F1V2-1
4.33"x9.41"x3.51" (HxWxD) - 9.7 LBS
- INSTALL 100A DISCONNECT:
(1) RAYCAP RSD-FMC-Z16MS-21NN
18.25"x9.10"x6.05" (HxWxD) - 23.6 LBS
EQUIPMENT COLOR: MATT BLACK
TO BE MOUNTED BELOW EQUIPMENT SHROUD
- INSTALL MULTIPLEXER WITHIN NEW SHROUD CABINET:
(1) ERICSSON OAD-9-S
1.1"x4.7"x4.6" (HxWxD) - 0.66 LBS
- INSTALL PSU WITHIN NEW SHROUD CABINET:
(1) ERICSSON PSU AC DB
2.72"x10.79"x7.09" (HxWxD) - 11.5 LBS
- INSTALL FRONTHAUL WITHIN NEW SHROUD CABINET:
(1) ERICSSON FRONTHAUL 6585
9.63"x5.12"x1.50" (HxWxD) - 1.54 LBS
- INSTALL "BLUE" NOTICE POLE WORKER SIGN AT LEAST 10' ABOVE GRADE PER EME REPORT
- INSTALL (2) "YELLOW" CAUTION SIGNS AT LEAST 6' BELOW THE ANTENNA ON EITHER SIDE OF THE POLE WITH A LISTED STANDOFF DISTANCE OF 14" NEAR THE ANTENNA PER EME REPORT



EXISTING POLE DETAIL
LOOKING NORTH



PROPOSED POLE DETAIL
LOOKING NORTH

- NOTES:**
1. PROPOSED POWER CONNECTIONS TO BE COORDINATED WITH PSE&G.
 2. METER TO BE POSITIONED IN A MANNER SUCH THAT THE TECHNICIAN FACES ONCOMING TRAFFIC.
 3. ALL DISTURBED SIDEWALK FLAGS SHALL BE REPLACED IN THEIR ENTIRETY.
 4. PREVIOUS/SHORTER WOOD POLE TO BE REMOVED, LEAVING ONLY ONE WOOD POLE AT THE PROPOSED SITE LOCATION.

Peter J. Tardy 08/12/2025
PETER J. TARDY, PE DATE
NEW JERSEY PROFESSIONAL ENGINEER LIC. NO. 41990

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609.862.1582
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New Jersey New York Pennsylvania Georgia

OWNER/DEVELOPER:
CROWN CASTLE
The Foundation for a Wireless World.

TITLE: Crown Castle Fiber LLC
Pole #: SO-PT-POLE-61986
288 WITHERSPOON STREET
PRINCETON, NJ
JURISDICTION: MUNICIPALITY OF PRINCETON

REVISIONS		
REV.	DATE	REVISION DESCRIPTION
3	06/25/24	REVISED PER PSE&G COMMENTS
4	03/05/25	REVISED PER COMMENTS & EME REPORT
5	03/31/25	REVISED PER PSE&G COMMENTS
6	06/05/25	REVISED PER COMMENTS
7	08/12/25	REVISED PER COMMENTS

DRAWN BY: D.R. CHECKED BY: A.R.C. APPROVED BY: P.J.T.

PROJECT NUMBER: 2438C.125.003

NODE ID: PRC-063

SCU # / CASCADE ID: 528020/PH6025BA_31LAB

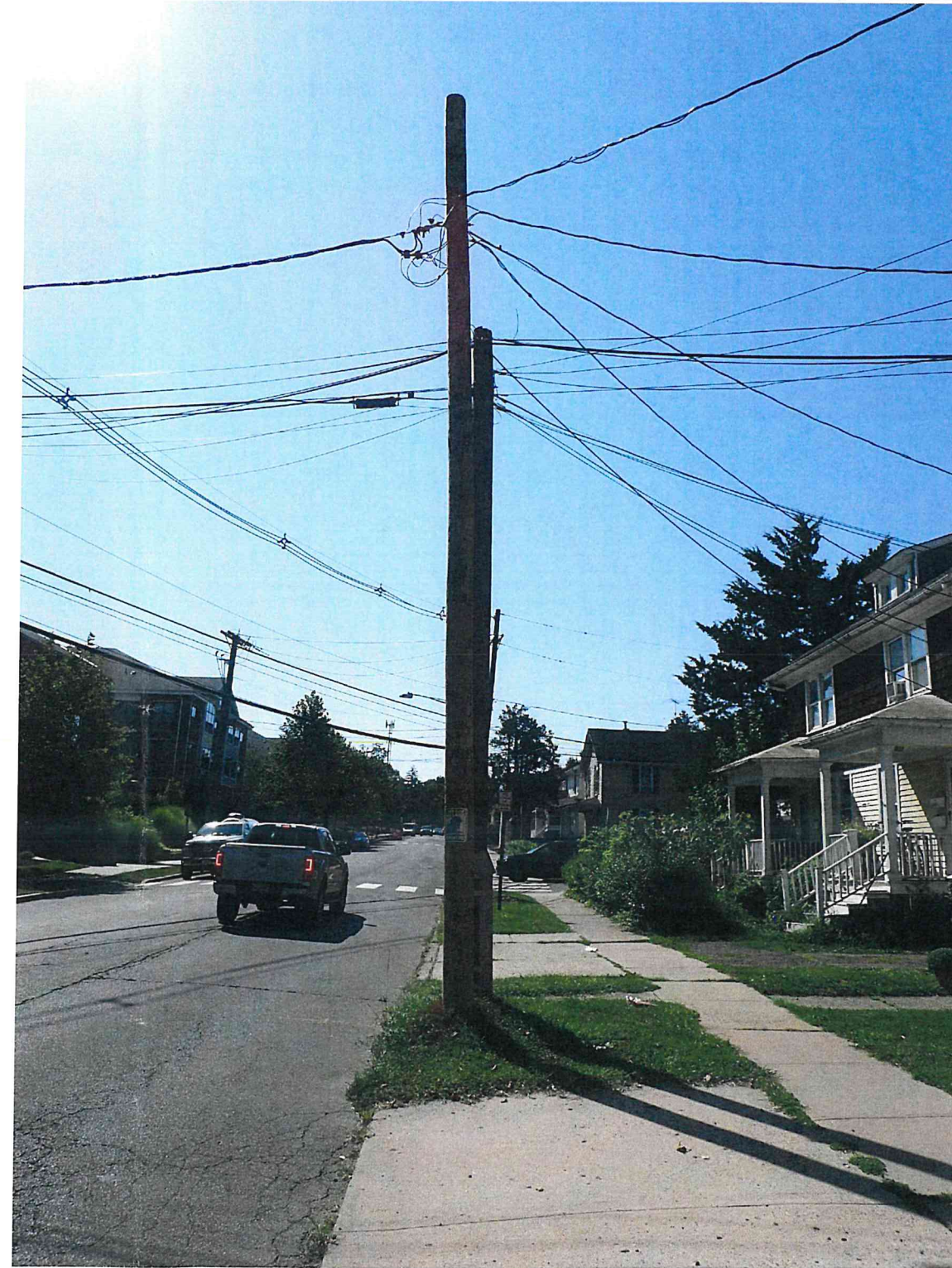
DATE DRAWN: 09/13/2023

SHEET: 3 of 9

NOTE:
PREVIOUS SHORTER WOOD POLE TO BE
REMOVED, LEAVING ONLY ONE WOOD
POLE AT THE PROPOSED SITE LOCATION.



EXISTING POLE PHOTO
LOOKING NORTH



EXISTING POLE PHOTO
LOOKING SOUTH

Peter J. Tardy 08/12/2025
PETER J. TARDY, PE DATE
NEW JERSEY PROFESSIONAL ENGINEER LIC. NO. 41990

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Pole #: SO-PT-POLE-61986
288 WITHERSPOON STREET
PRINCETON, NJ
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7	08/12/25	REVISED PER COMMENTS

DRAWN BY:	CHECKED BY:	APPROVED BY:
D.R.	A.R.C.	P.J.T.

PROJECT NUMBER:	2438C.125.003
NODE ID:	PRC-063
SCU # / CASCADE ID:	528020/PH6025BA_31LAB
DATE DRAWN:	09/13/2023
SHEET:	4 of 9

NOTE:
PREVIOUS SHORTER WOOD POLE TO BE
REMOVED, LEAVING ONLY ONE WOOD
POLE AT THE PROPOSED SITE LOCATION.



EXISTING POLE PHOTO
LOOKING EAST



EXISTING POLE PHOTO
LOOKING WEST

Peter J. Tardy 08/12/2025
PETER J. TARDY, PE DATE
NEW JERSEY PROFESSIONAL ENGINEER LIC. NO. 41990

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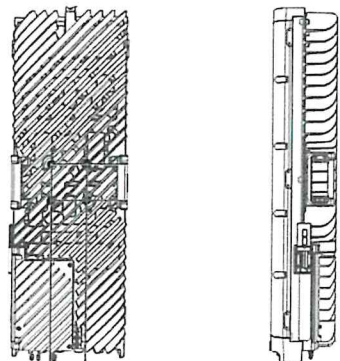
OWNER/DEVELOPER:
CC CROWN CASTLE
The Foundation for a Wireless World.

TITLE: Crown Castle Fiber LLC
Pole #: S0-PT-POLE-61986
288 WITHERSPOON STREET
PRINCETON, NJ
JURISDICTION: MUNICIPALITY OF PRINCETON

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6	06/05/25	REVISED PER COMMENTS
7	08/12/25	REVISED PER COMMENTS

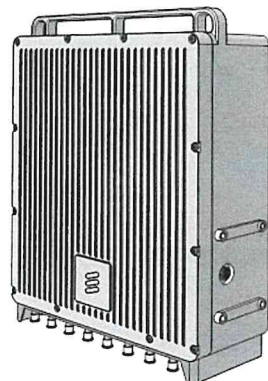
DRAWN BY:	CHECKED BY:	APPROVED BY:
D.R.	A.R.C.	P.J.T.

PROJECT NUMBER:	2438C.125.003
NODE ID:	PRC-063
SCU # / CASCADE ID:	528020/PH6025BA_31LAB
DATE DRAWN:	09/13/2023
SHEET:	5 of 9



MECHANICAL SPECIFICATIONS:
HEIGHT: 31.3 IN.
WIDTH: 10.9 IN.
DEPTH: 5.9 IN.
WEIGHT: 67.2 LBS.

ERICSSON
RADIO 4455 B2/B25 B66A



MECHANICAL SPECIFICATIONS:
HEIGHT: 18.1 IN.
WIDTH: 14.8 IN.
DEPTH: 5.7 IN.
WEIGHT: 50.9 LBS.

ERICSSON
RADIO 8863 B41 W/FAN



MECHANICAL SPECIFICATIONS:
HEIGHT: 4.33 IN.
WIDTH: 9.41 IN.
DEPTH: 3.51 IN.
WEIGHT: 7.9 LBS.

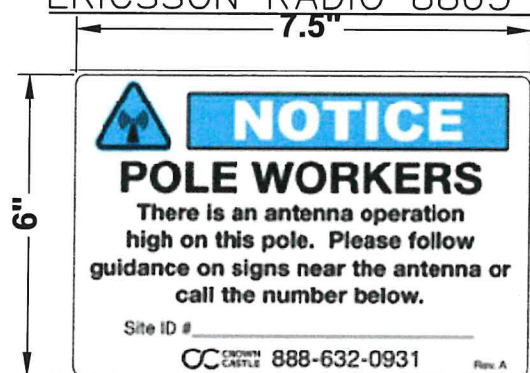
KAEIUS
DBCT156F1V12-1 DIPLEXER

BILL OF MATERIALS		
DESCRIPTION	QUANTITY	PART NUMBER
SHROUD	1	RAYCAP RAES-235418-C35
ANTENNA	1	AMPHENOL 2C6U2VT360X06F040s4
RADIO	1	ERICSSON 4455 B2/B25 B66A
RADIO	1	ERICSSON 8863 B41 W/FAN
DIPLEXER	1	KAEIUS DBCT156F1V12-1
MULTIPLEXER	1	ERICSSON OAD-9-S
PSU	1	PSU AC 08
FRONTHAUL	1	ERICSSON 6585
DISCONNECT	1	RAYCAP RSD-FMC-Z16MS-21NN
METER	1	MILBANK #U8569-YL-PSE&G-DES
DISCONNECT	1	SQUARE D QO2-4L70RB
ANTENNA POLE TOP MOUNTING BRACKET	1	CONCEALFAB 007960-1 POLE TOP EXTENSION W/ 900192 TOP BRACKET
1.25" SCH 80 PVC CONDUIT (TO METER)	1	
1" (MIN) TITAN 2 UL LFMC (OR EQUAL) (TO DISCONNECT)	1	
1" (MIN) OFFSET ELBOW CONNECTOR (DIS TO LOAD CENTER)	1	
#4 AWG SERVICE CONDUCTORS (RISER TO METER/METER TO DIS)	6	
#6 AWG (MIN) POWER CONDUCTORS (DIS TO LOAD CENTER)	3	
#8 AWG (MIN) GND (DIS TO LOAD CENTER)	1	
#6 AWG (MIN) BONDING JUMPERS	2	
KENNY CLAMP	1	
LED INDICATOR	1	
MAIN DISCONNECT SIGN	1	
"BLUE" POLE WORKER SIGN	1	
"YELLOW" CAUTION SIGN	1	
ARC FLASH WARNING SIGN	1	
SMALL CELL SITE SIGN	1	



MECHANICAL SPECIFICATIONS:
HEIGHT: 24 IN.
DIAMETER: 14.6 IN.
WEIGHT: 28.0 LBS.

AMPHENOL
2C6U2VT360X06F040s4
ANTENNA



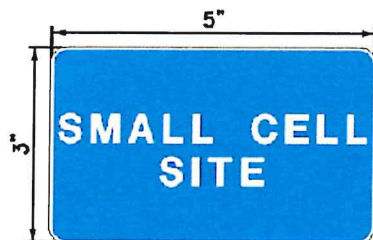
NOTES:
1. POLE WORKER SIGNAGE ATTACHED ON:
WOOD POLES = SIGN ON ALUMINUM WITH STAINLESS STEEL SCREWS.
METAL POLES = ADHESIVE VINYL OR PLACARD STRAPPED WITH STAINLESS STEEL TIES.
CONCRETE/COMPOSITE = PLACARD STRAPPED WITH STAINLESS STEEL TIES.
FIBERGLASS = PLACARD STRAPPED WITH STAINLESS STEEL TIES.
2. AFFIX SIGN TO THE STRUCTURE AS PER EME REPORT.

POLE WORKER
"BLUE" NOTICE SIGN



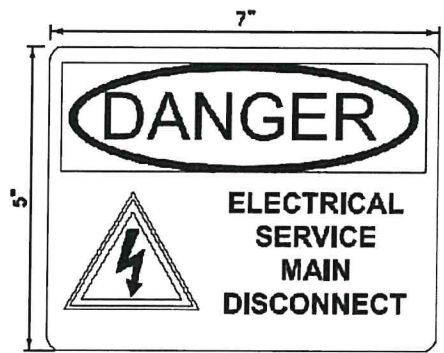
NOTES:
1. ANTENNA SIGNAGE ATTACHED ON:
WOOD POLES = SIGN ON ALUMINUM WITH STAINLESS STEEL SCREWS.
METAL POLES = ADHESIVE VINYL OR PLACARD STRAPPED WITH STAINLESS STEEL TIES.
CONCRETE/COMPOSITE = PLACARD STRAPPED WITH STAINLESS STEEL TIES.
FIBERGLASS = PLACARD STRAPPED WITH STAINLESS STEEL TIES.
2. AFFIX SIGN TO THE STRUCTURE AS PER EME REPORT.
3. THE SIGN MUST BE COMPLETELY READABLE FROM OUTSIDE THE DANGER ZONE.

RF "YELLOW" CAUTION SIGN
(BELOW ANTENNAS)



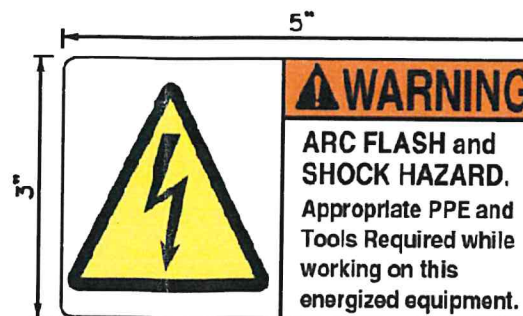
NOTES:
1. SIGNAGE ATTACHED ON:
WOOD POLES = PLACARD TO BE VINYL WITH UV-STABLE INK, ATTACHED WITH STAINLESS STEEL SCREWS.
METAL POLES = ADHESIVE VINYL OR VINYL PLACARD WITH UV-STABLE INK, STRAPPED WITH STAINLESS STEEL TIES.
CONCRETE/COMPOSITE/FIBERGLASS = PLACARD TO BE VINYL WITH UV-STABLE INK, STRAPPED WITH STAINLESS STEEL TIES.
2. AFFIX SIGN TO THE STRUCTURE IN PROXIMITY TO THE METER AND/OR DISCONNECT.

SMALL CELL SIGN



NOTES:
1. SIGN TO BE INSTALLED ON DISCONNECT BOX.
2. SIGN ON VINYL WITH ADHESIVE BACKING.
3. NO BACKUP DC POWER SUPPLY IS AVAILABLE FOR THIS SYSTEM.

DISCONNECT WARNING SIGN



NOTES:
1. SIGN TO BE INSTALLED ON LOAD CENTER.
2. LABEL MUST BE PERMANENTLY AFFIXED AND WATERPROOF.
3. VALUES MUST BE HANDWRITTEN ON LABEL IN LEGIBLE PERMANENT MARKER.

ARC FLASH WARNING SIGN

Peter J. Tardy
08/12/2025
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CROWN CASTLE
The Foundation for a Wireless World.

TITLE: Crown Castle Fiber LLC
Pole #: S0-PT-POLE-61986
288 WITHERSPOON STREET
PRINCETON, NJ
JURISDICTION: MUNICIPALITY OF PRINCETON

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7	08/12/25	REVISED PER COMMENTS

DRAWN BY: D.R. CHECKED BY: A.R.C. APPROVED BY: P.J.T.

PROJECT NUMBER: 2438C.125.003
NODE ID: PRC-063
SCU # / CASCADE ID: 528020/PH6025BA_31LAB
DATE DRAWN: 09/13/2023
SHEET: 7 of 9

Scenario Name:-
Scenario 048

Project:-
Trenton, NJ

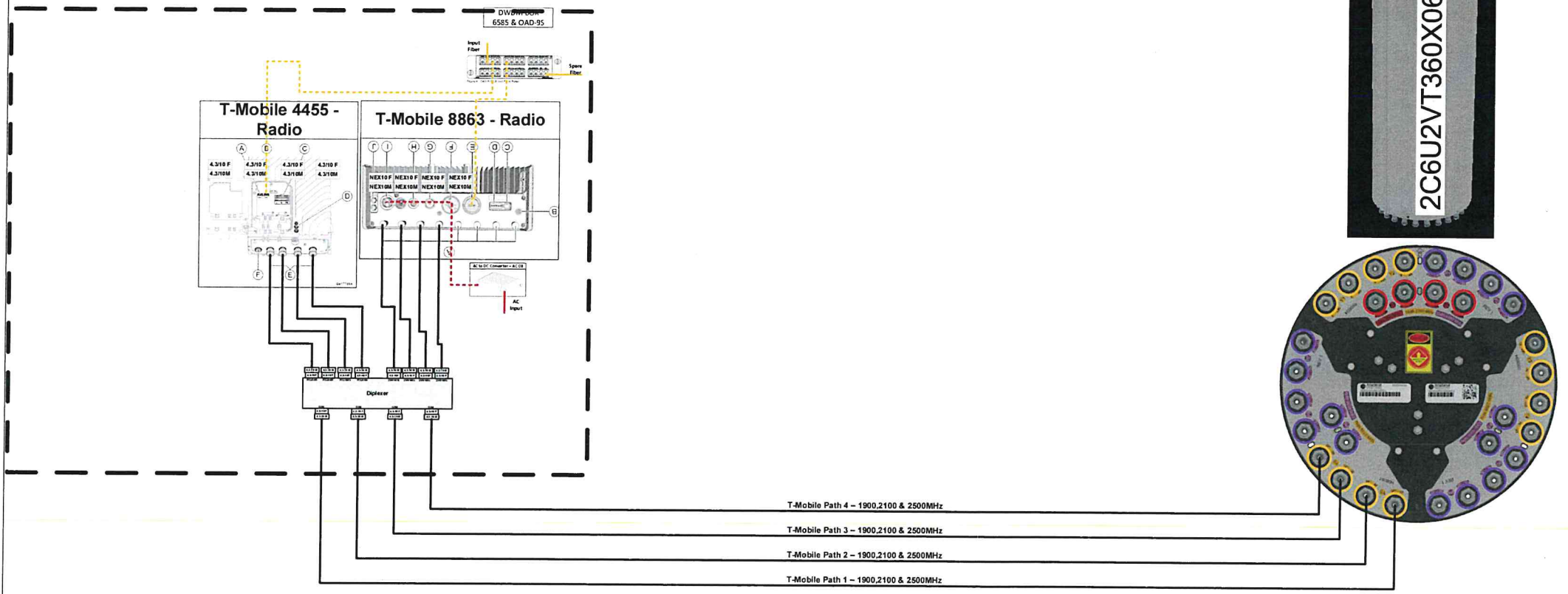
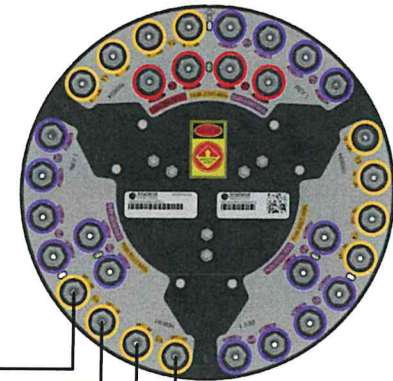
Designed by:- Prashant Patel
Customer:- T-Mobile

Date Created:- 04/13/2023
Revision:- 1

Cluster Name:- Philly County
Sheet:- 048



New Antenna



Carrier	Band (MHz)	Color	Description	Path 1	Path 2	Comments
Verizon	700	1x Red		Brown	Brown/Brown	
	850	2x Red		Brown	Brown/Brown	Alternatively named Cellular Band
	1900	3x Red		Brown	Brown/Brown	Alternatively named PCS Band
	2100	4x Red		Brown	Brown/Brown	Alternatively named AWS or 1700 Band
AT&T	700	1x Blue		Brown	Brown/Brown	
	850	2x Blue		Brown	Brown/Brown	Alternatively named Cellular Band
	1900	3x Blue		Brown	Brown/Brown	Alternatively named PCS Band
	2100	4x Blue		Brown	Brown/Brown	Alternatively named AWS or 1700 Band
T-Mobile	700	1x Green		Brown	Brown/Brown	Alternatively named WCS Band
	1900	3x Green		Brown	Brown/Brown	Alternatively named PCS Band
	2100	4x Green		Brown	Brown/Brown	Alternatively named AWS or 1700 Band
	2300	5x Blue		Brown	Brown/Brown	Alternatively named WCS Band
Metro	2100	4x Purple		Brown	Brown/Brown	Alternatively named AWS or 1700 Band
	2300	5x Yellow		Brown	Brown/Brown	Alternatively named WCS Band
Sprint	700	1x Yellow		Brown	Brown/Brown	
	850	2x Yellow		Brown	Brown/Brown	Alternatively named Cellular Band
	1900	3x Yellow		Brown	Brown/Brown	Alternatively named PCS Band
	2100	4x Yellow		Brown	Brown/Brown	Alternatively named AWS or 1700 Band
	2300	5x Yellow		Brown	Brown/Brown	Alternatively named WCS Band
	2500	6x Yellow		Brown	Brown/Brown	Alternatively named WCS Band

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE	FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
3300-4200 MHz	P1	17-18	(2x) 4.3-10 Female	696-960 MHz	R1	1-2	(2x) 4.3-10 Female
3300-4200 MHz	P2	19-20	(2x) 4.3-10 Female	696-960 MHz	R2	3-4	(2x) 4.3-10 Female
3300-4200 MHz	P3	21-22	(2x) 4.3-10 Female	1695-2700 MHz	Y1	5-6	(2x) 4.3-10 Female
3300-4200 MHz	P4	23-24	(2x) 4.3-10 Female	1695-2700 MHz	Y2	7-8	(2x) 4.3-10 Female
3300-4200 MHz	P5	25-26	(2x) 4.3-10 Female	1695-2700 MHz	Y3	9-10	(2x) 4.3-10 Female
3300-4200 MHz	P6	27-28	(2x) 4.3-10 Female	1695-2700 MHz	Y4	11-12	(2x) 4.3-10 Female
3300-4200 MHz	P7	29-30	(2x) 4.3-10 Female	1695-2700 MHz	Y5	13-14	(2x) 4.3-10 Female
3300-4200 MHz	P8	31-32	(2x) 4.3-10 Female	1695-2700 MHz	Y6	15-16	(2x) 4.3-10 Female

Peter J. Tardy 08/12/2025 DATE
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 FPAengineers.com
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OWNER/DEVELOPER:
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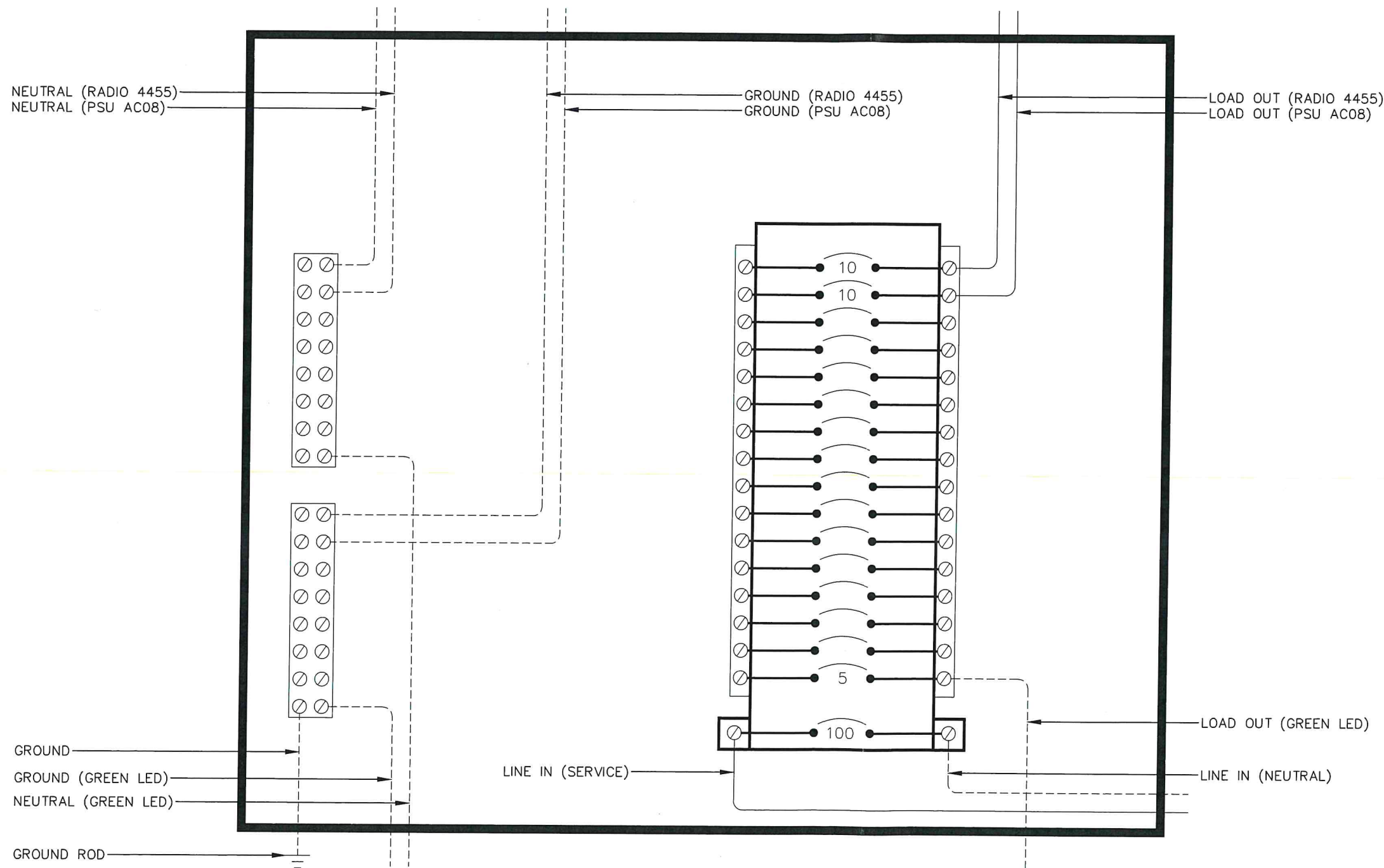
TITLE: Crown Castle Fiber LLC
 Pole #: SO-PT-POLE-61986
 288 WITHERSPOON STREET
 PRINCETON, NJ
 JURISDICTION: MUNICIPALITY OF PRINCETON

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DRAWN BY: D.R. CHECKED BY: A.R.C. APPROVED BY: P.J.T.

PROJECT NUMBER: 2438C.125.003
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 SHEET: 8 OF 9



Peter J. Tardy 08/12/2025
 PETER J. TARDY, PE DATE
 NEW JERSEY PROFESSIONAL ENGINEER LIC. NO. 41990

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