PROJECT DESCRIPTION

REMOVE (3+3) NOKIA AEQK+AEQU STACKED ANTENNAS, (1+1) PER SECTOR

REMOVE (6) KAELUS TMA2117F00V1-1 TMAS, (2) PER SECTOR

REMOVE (6) KATHREIN 78211273V02 TMAS, (2) PER SECTOR

INSTALL (3+3) FRICSSON AIR6419 B77G+FRICSSON AIR6419 B77D (2) PER SECTOR

INSTALL (6) COMMSCOPE TMAT192123B68-31 TMAS, (2) PER SECTOR

INSTALL (6) COMMSCOPE TMAT192123B68-21 TMAS, (2) PER SECTOR

REMOVE (3) AIRSCALE DUAL RRH 4T4R B12/14/29 370W AHLBBA, (1) PER SECTOR

REMOVE (3) B25 RRH 4X30-4R RRHS, (1) PER SECTOR 3) B66A RRH4X45-4R RRHS, (1) PER SECTOR REMOVE

REMOVE (3) AIRSCALE RRH 4T4R B5 160W AHCA, (1) PER SECTOR

REMOVE. 3) RRH4x25-WCS-4R RRHS, (1) PER SECTOR

REMOVE (2) C48/24 1500 CONVERTERS FROM VERTIV 512 POWER PLANT

4490 B5/B12A RRH'S, (1) PER SECTOR INSTALL

INSTALL (3) 4890 B25/B66 RRH'S, (1) PER SECTOR 4494 B14/B29 RRH'S, (1) PER SECTOR

INSTALL 4471 B30 RRH'S, (1) PER SECTOR

VERTIV 48 TO 58 CONVERSION KIT IN VERTIV 512 POWER PLANT

INSTALL VERTIV C48/58 -2000P3 CONVERTERS IN VERTIV 512 POWER PLANT

(2) 6651 & (1) 6610 IN PURCELL CABINET

INSTALL (24) BREAKERS IN EXISTING VERTIV 512 POWER PLANT

PROJECT INFORMATION

SOUTH HILL MALL SITE NAME:

USID: 75042 10038029 FA#:

SITE ADDRESS: 3310 SOUTH MERIDIAN

PUYALLUP, WA 98373

6021010051 PARCEL NUMBER (APN):

PROPERTY OWNER: AMERICAN TOWER COMPANY

STRUCTURE TYPE: 80'-0" STEALTH MONOPOLE

47.1597389° / 47°09'35.1"N LATITUDE (NAD 83):

LONGITUDE (NAD 83): -122.2966*/ 122*17'47.8"W

SITE TYPE:

GROUND ELEVATION: ±434' (AMSL)

COUNTY: PIERCE COUNTY

ZONING JURISDICTION: CITY OF PUYALLUP

AT&T LEASE AREA: 320 SQ, FT.

APPLICANT: AT&T MOBILITY 60 WEST AVENUE

WAYNE, PA 19087

STEALTH MONOPOLE

TOWER OWNER: AT&T TOWER

TOWER OWNER SITE ID:

CURRENT ZONING:

RFDS DATA

CG GENERAL COMMERCIAL

RFDS ID: 20520 DATED: 02/29/2024

REVISION: TRD VERSION: TRD

UPDATED BY: ea1814

DATE/TIME UPDATED: 01/09/2025



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> **S**smartlink 10 CHURCH CIRCLE ANNAPOLIS, MD 21401

City of Puyallup

Division

APPROVED

See permit

04/30/2025 1:37:32 PM

Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

Full sized legible color plans are required to be provided by the permitee on site for inspection.



SITE NUMBER #: WA6413 SITE NAME: SOUTH HILL MALL

FA #: 10038029

SITE ADDRESS: 3310 SOUTH MERIDIAN

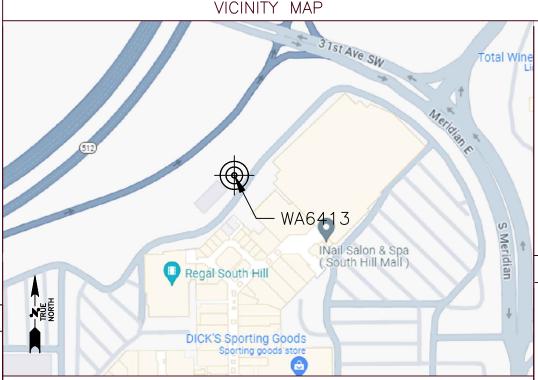
PUYALLUP, WA 98373

COUNTY: PIERCE COUNTY

PACE #: MRWOR081847, MRWOR081946, MRWOR081861, MRWOR082022, MRWOR081933, MRWOR081860,

MRWOR081973

PROJECT: LTE 1C RRH SWAP, 5G NR RRH SWAP, LTE RRH SWAP, 5G NR RRH SWAP, 5G NR 1SR CBAND, LTE RRH SWAP, LTE RRH SWAP



DRIVING DIRECTIONS

FROM PIERCE COUNTY AIRPORT, 16709 103RD AVENUE CT E, PUYALLUP, WA 98374:

DEPART AND HEAD (NORTHWEST), TURN RIGHT, THEN IMMEDIATELY TURN RIGHT ONTO 103RD AVENUE CT E, TURN RIGHT ONTO WA-161/ MERIDIAN E, TURN LEFT ONTO S MERIDIAN, TURN RIGHT TOWARD S MERIDIAN, KEEP STRAIGHT TO GET ONTO S MERIDIAN, ARRIVE AT 3310 SOUTH MERIDIAN, PUYALLUP, WA 98373.

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, PORTABLE WATER, OR TRASH DISPOSAL IS REQUIRED, NO COMMERCIAL SIGNAGE AND NO LANDSCAPING IS PROPOSED

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

BUILDING CODES

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

- 2021 INTERNATIONAL BUILDING CODE 2021 INTERNATIONAL MECHANICAL CODE 2023 NATIONAL ELECTRICAL CODE

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.

- FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION ADA ACCESS REQUIREMENTS ARE NOT REQUIRED
- THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT

01/15/25 ISSUED FOR PERMITTING USE ONLY 08/29/24 ISSUED FOR PERMITTING USE ONLY REV DATE DESCRIPTION

Separate Electrical Permit is required with the Washington State Department of Labor & Industries. https://lni.wa.gov/licensing-per mits/electrical/electrical-permit s-fees-and-inspections or call for Licensing Information: 1-800-647-0982

SHEET

T-1

GN-1

C-2

C-3

C-4

C-6

 $\Delta - 1$

A-2

F-1

G-1

RF-1

RF-2

City of Puyallup

ment & Permitting S ISSUED PERMIT

Planning

Public Works

Traffic

SHEET INDEX

DESCRIPTION

EXISTING & PROPOSED EQUIPMENT LAYOUT

EXISTING & PROPOSED ANTENNA LAYOUT

POWER EXTEND CONVERTER DETAILS

PLUMBING DIAGRAM - ALPHA SECTOR

PLUMBING DIAGRAM — BETA SECTOR

PLUMBING DIAGRAM - GAMMA SECTOR

FXISTING & PROPOSED NORTHEAST FLEVATION

EXISTING & PROPOSED ANTENNA SCHEDULES

Building

Engineering

TITLE SHEET

GENERAL NOTES

OVERALL SITE PLAN

FNLARGED SITE PLAN

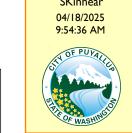
CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

SITE INPUT DATA

GROUNDING PLAN

GROUNDING DETAILS



Building REVIEWED FOR COMPLIANCE SKinnear

REVISION

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City of Puyallup

AT&T

TITLE SHEET (2024 UPGRADE)

SITE NUMBER SHEET NUMBER REV T-1WA6413





SITE NAME: SOUTH HILL MALL PRCTI20250451

3310 SOUTH MERIDIAN PUYALLUP, WA 98373 PIERCE COUNTY

SITE NUMBER: WA6413

GENERAL NOTES

GENERAL CONSTRUCTION

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
- 1.1 CONTRACTOR T.R.D.
- 1.2. SUB-CONTRACTOR GENERAL CONTRACTOR (CONSTRUCTION)
- 1.3. OWNER AT&T MOBILITY
- 1.4. OEM ORIGINAL EQUIPMENT MANUFACTURER
- 2. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- 3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- 4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR 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.
- 6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 7. THE PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK
- 8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
- 10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- 11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 12. ERECTION SHALL BE DONE IN A WORKMAN-LIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- 13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- 14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
 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 THE OWNER.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
 GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
- 19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- 20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- 21. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2A TO 2A:10B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- 22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
- 23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- 24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- 25. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- 26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

- 27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR
- DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION. ALL NECESSARY RUBBISH, STUMPS, DEBRIS. STICKS. STONES. AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A

LAWFUL MANNER.

28. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND AND CONTRACTOR AT COMPLETION OF CONSTRUCTION AND CONTRACTOR AT COMPLETION CONTRACTOR CONTRACTO

- DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- 29. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- 30. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- 31. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- 32. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
- 33. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED
- 34. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION OF AT&T GROUNDING STANDARD "GROUNDING AND BONDING REQUIREMENTS FOR NETWORK FACILITIES (ATT—TP—76416) AND "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" (ATT—TP—76300). IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- 35. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- 36. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 37. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 38. NO WHITE STROBIC LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
- 39. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

ANTENNA MOUNTING

- 40. DESIGN AND CONSTRUCTION OF ANNTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
- 41. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
- 42. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
- 43. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
 44. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK WASHERS AND/OR DOUBLE NUTS. AND SHALL BE
- TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
 45. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND
- GROUNDING.
 46. ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
- 47. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN $\pm 3^{\circ}$ AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN $\pm 0.5^{\circ}$

AS DEFINED BY THE RFDS. REFER TO ND-00246.

- 48. JUMPERS FROM THE TOWER MOUNTED AMPLIFIERS MUST TERMINATE TO OPPOSITE POLARIZATIONS IN EACH SECTOR.
- 49. CONTRACTOR SHALL RECORD THE SERIAL NUMBER, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO AT&T.
- 50. ANTENNAS SHALL HAVE A 3'-0" MINIMUM CENTER-TO-CENTER HORIZONTAL SEPARATION.

TORQUE REQUIREMENT

- 51. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH
- 52. A TORQUE MARK FORMING A CONTINUOUS STRAIGHT LINE IS TO BE MADE IN THE FOLLOWING APPLICATIONS:

 53. RF CONNECTIONS MARK BOTH SIDES OF THE CONNECTOR GROUNDING AND ANTENNA HARDWARE -
- MARK ON THE NUT SIDE OF THE BOLT, STARTING FROM THE THREADS TO THE SOLID SURFACE. SOLID SURFACE EXAMPLES INCLUDE A GROUND BAR OR ANTENNA BRACKET METAL.

Development &	Puyallup Permitting Service PERMIT
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Fire	Traffic

- 54. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NM)
- 55. ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NM).
- 56. ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
- 57. ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4 29.8 NM).
- 58. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7 2.3 NM).

FIBER & POWER CABLE MOUNTING

- 59. THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED IN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SECRECATE CABLE TYPES. OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SHALL BE SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ATRICLE 770 RULES SHALL APPLY.
- 60. TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS OR CABLE TRAYS, AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) FEET. WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS OR CABLE TRAYS THAT ARE SERVICING UTILIZATION EQUIPMENT OR DEVICES. A TRANSITION DISTACE EXCEEDING (6) FEET REQUIRES CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
- 61. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

COAXIAL CABLE NOTES

- 62. TYPES AND SIZES OF THE ANTENNA CABLES ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED FETIMATED LENGTHS
- 63. CONTRACTOR SHALL VERIFY THAT THE DOWNTILT OF EACH ANTENNA IS WITHIN +/- 0.5 DEGREES OF SPECIFICATION WITH AN OCI APPROVED DIGITAL LEVEL.
- 64. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERSION.
- 65. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE SHALL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6'-0".
- 66. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, NOT TO EXCEED 4'-0" OC.
- 67. COAXIAL CABLE SHALL BE SECURED TO THE DESIGNATED SUPPORT STRUCTURE(S) PER MANUFACTURER'S SPECIFICATIONS.
- 68. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
- 69. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH AT&T STANDARDS.

GENERAL CABLE AND EQUIPMENT NOTES

- 70. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, COAX CONFIGURATION, MAKES, AND MODELS PRIOR TO INSTALLATION.
- 71. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.
- 72. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
- 73. AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE, ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE OR OTHER APPROVED WEATHERPROOFING METHODS PER AT&T SPECIFICATIONS. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE—HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED. SELF BONDING TAPE AND PLASTIC ENCLOSURES ARE PERMITTED PER ATT—002—290—041, SECTION 7.
- 74. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
- A. TEMPERATURE SHALL BE ABOVE 50 DEGREES FAHRENHEIT.
- B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
- C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
- D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
- $75. \ \, \text{ALL CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUND KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS:} \\$
- A. GROUNDING AT THE ANTENNA LEVEL.
- B. GROUNDING AT THE MID LEVEL, TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.
 C. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
- D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
- E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.
- 76. ANTENNA CONTRACTOR SHALL FURNISH AND INSTALL A 10'-0" T-BOOM SECTOR ANTENNA MOUNT INCLUDING ALL HARDWARE, IF APPLICABLE.







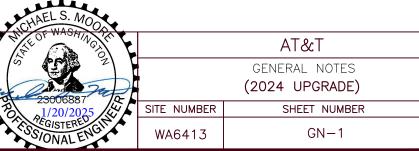
SITE NUMBER: WA6413
SITE NAME: SOUTH HILL MALL
PRCTI20250451

3310 SOUTH MERIDIAN

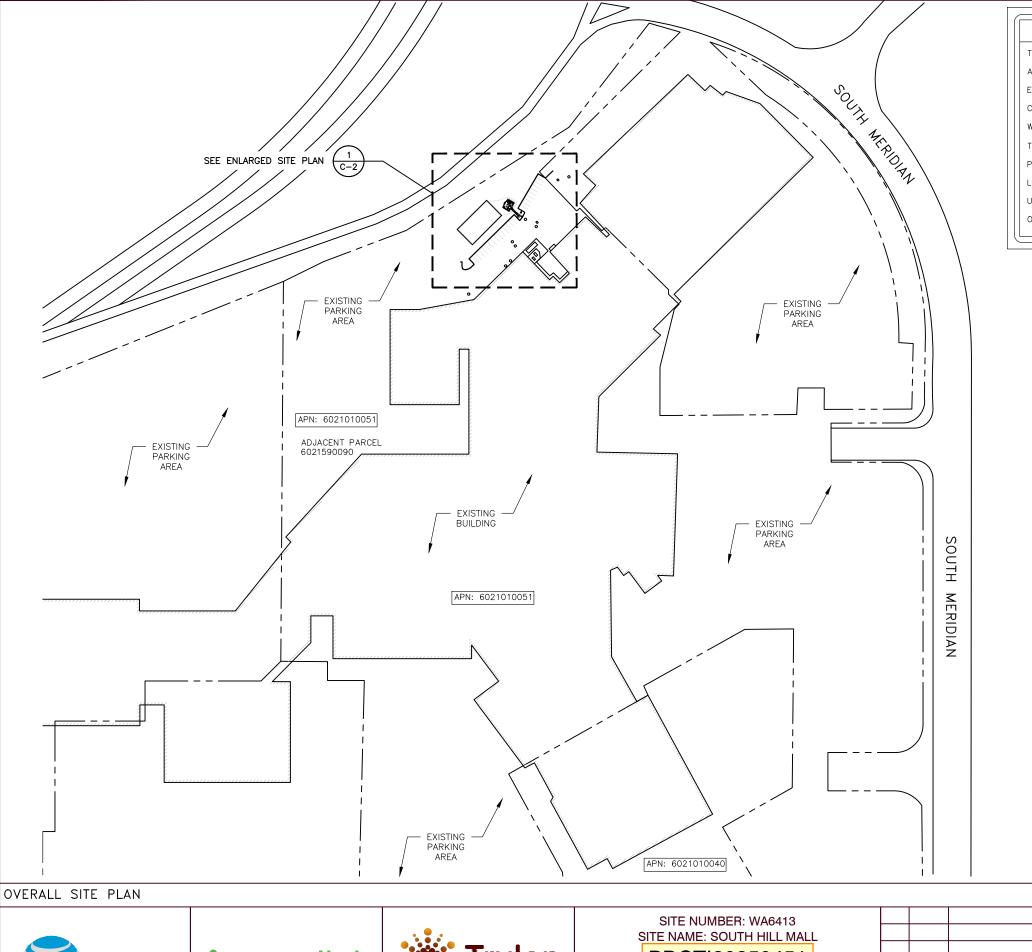
PUYALLUP, WA 98373

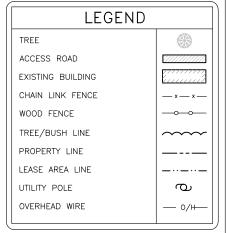
PIERCE COUNTY

1 01/15/25 ISSUED FOR PERMITTING USE ONLY RC
A 08/29/24 ISSUED FOR PERMITTING USE ONLY RC
REV DATE DESCRIPTION BY



REV





City of Puyallup

ISSUED PERMIT

Planning

Public Works

Building

Engineering

Fire



GENERAL NOTES:

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- 3. THE CONTRACTOR SHALL NOTIFY THE AT&T CONSTRUCTION MANAGER IN WRITING, OF ANY CONFLICT, ERRORS OR OMISSION PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
- 5. THE SCOPE OF THE WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS
- 7. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES AND NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT (800) 424-5555 PRIOR TO EXCAVATION AT SITE.
- 8. ANY UNDERGROUND UTILITIES OR STRUCTURES THAT EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
- 9. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS
- 10. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.
- 11. THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS INSTALLATION.
- 12. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED IN ANY FILL OR EMBANKMENT.
- 13. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE DIRECTED BY UTILITY OWNER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
- 14. THE AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITY SHALL BE GRADED AND RESTORED PER CODE/LANDLORD REQUIREMENTS.
- 15. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION, EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE MUNICIPALITY
- 16. UTILITY WARNING TAPE SHALL BE PLACED ABOVE ALL NEW CONDUITS AT MAX 18" DEPTH BELOW GRADE.
- 17. PRIOR TO INSTALLATION OF ERICSSON EQUIPMENT, REMOVE RELATED NOKIA

AT&T MACRO TOWER/BBU EQUIPMENT. SCALE: 1"=200'-0" (11x17)



WAYNE, PA 19087





PRCTI20250451

3310 SOUTH MERIDIAN PUYALLUP, WA 98373 PIERCE COUNTY

01/15/25 ISSUED FOR PERMITTING USE ONLY RC 08/29/24 ISSUED FOR PERMITTING USE ONLY REV DATE DESCRIPTION BY



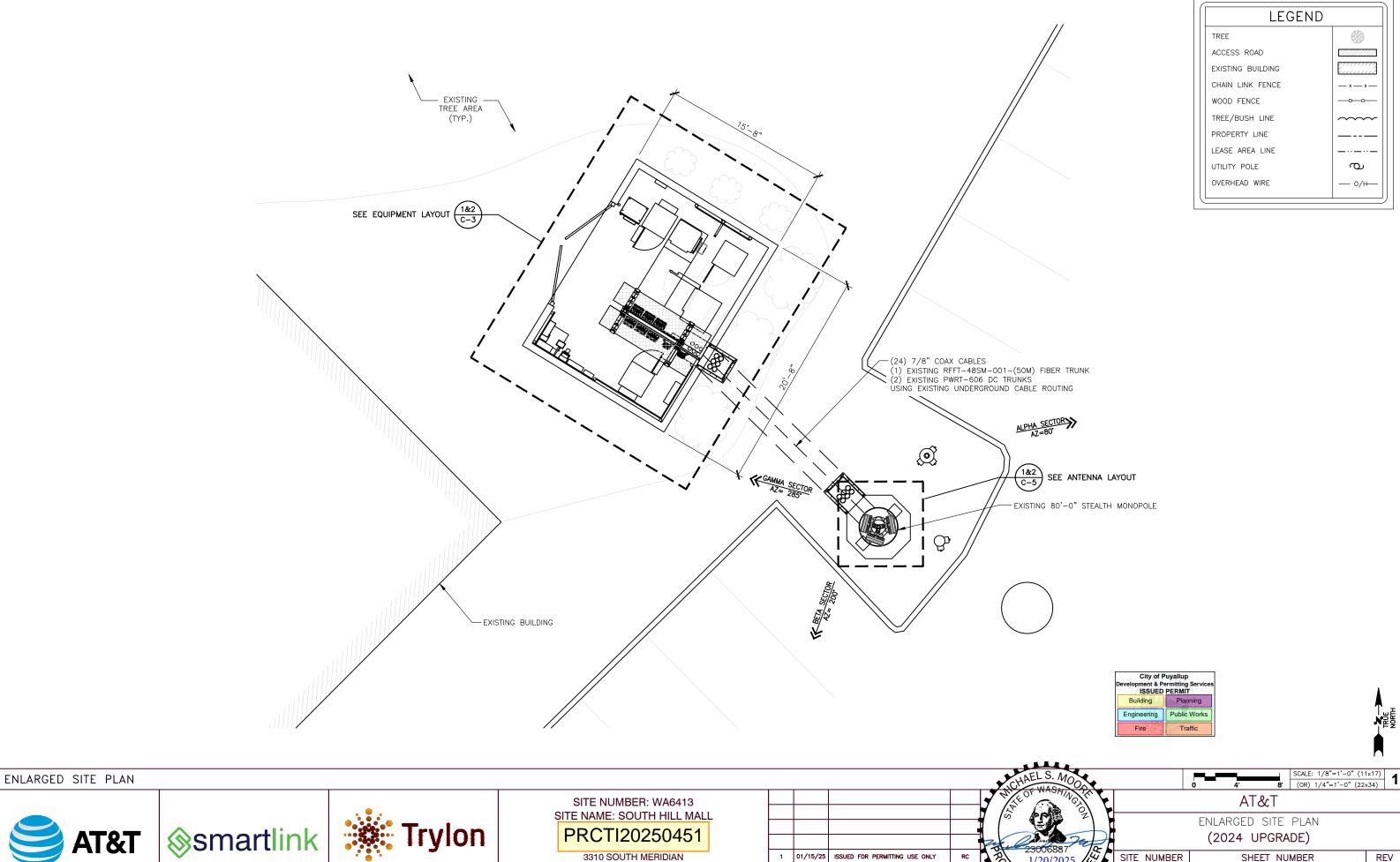
YAEL S. MA

OVERALL SITE PLAN (2024 UPGRADE)

AT&T

200' | SCALE: 1"=200'-0" (11x17) | (OR) 2"=200'-0" (22x34)

SITE NUMBER SHEET NUMBER REV WA6413



PUYALLUP, WA 98373

PIERCE COUNTY

A 08/29/24

REV DATE

ISSUED FOR PERMITTING USE ONLY

DESCRIPTION

BY

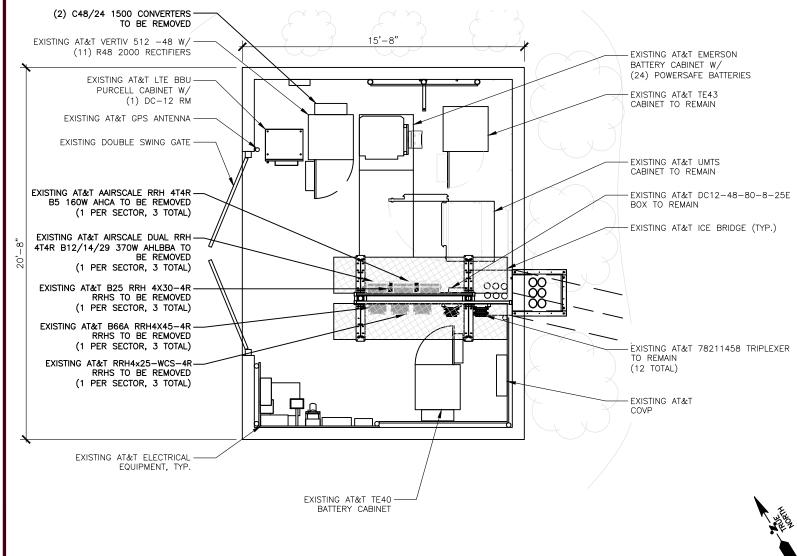
10 CHURCH CIRCLE ANNAPOLIS, MD 21401

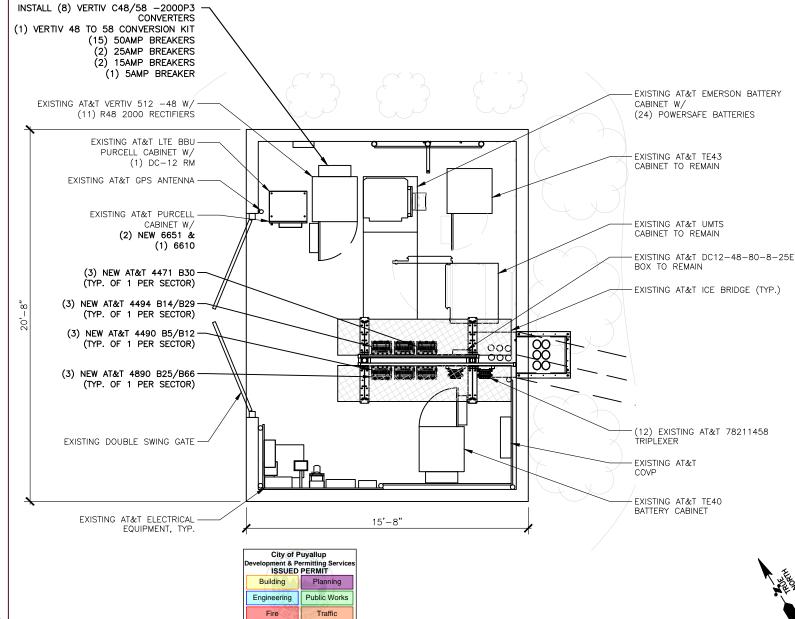
60 WEST AVENUE WAYNE, PA 19087

1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038 1-855-669-5421 SITE NUMBER SHEET NUMBER REV
WA6413 C-2 1

NOTES: THESE DRAWINGS SHALL NOT BE RELIED UPON AS AN INDICATION THAT THE TOWER STRUCTURE, ITS COMPONENTS, AND ITS FOUNDATION HAVE ADEQUATE STRUCTURAL CAPACITY TO SUPPORT ALL EXISTING AND NEW ANTENNAS, MOUNTS, EQUIPMENT, AND COAXIAL CABLES. TRYLON HAS NOT PERFORMED A STRUCTURAL ANALYSIS ON THE TOWER, FOUNDATION, ANTENNA MOUNT, AND ALL ITS COMPONENTS. IT IS THE RESPONSIBILITY OF THE OWNER TO HAVE A STRUCTURAL ANALYSIS PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS PRIOR TO THE INSTALLATION OF ANY NEW EQUIPMENT, COAXIAL CABLES, ANTENNAS, OR APPURTENANCES ON THE TOWER. THIS STRUCTURAL ANALYSIS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN PA. INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES, AND SUPPORT STRUCTURES. ANTENNA WORK TO BE INSTALLED PER THE REQUIREMENTS OF THE TOWER MANUFACTURER'S SPECIFICATION. 3. ANTENNA AND MOUNT DESIGN MUST COMPLY WITH ANSI/TIA-222-G AND ALL LOCAL CODES. 4. CONTRACTOR TO PROVIDE THE PROPER COAX JUMPER SUPPORT ATTACHMENTS TO THE TOWER AND ANTENNA MOUNT. 5. CONTRACTOR TO GET THE LATEST AT&T RFDS PRIOR TO COMMENCEMENT OF CONSTRUCTION

- 6. CONTRACTOR SHOULD REFER TO FINAL RFDS FOR ALL RF DETAILS.
- 7. THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 8. PRIOR TO INSTALLATION OF ERICSSON EQUIPMENT, REMOVE RELATED NOKIA AT&T MACRO TOWER/BBU EQUIPMENT.





YAEL S. MA

SSIONAL EN

EXISTING EQUIPMENT LAYOUT

smartlink AT&T 10 CHURCH CIRCLE ANNAPOLIS, MD 21401 60 WEST AVENUE WAYNE, PA 19087



SITE NUMBER: WA6413 SITE NAME: SOUTH HILL MALL PRCTI20250451

> 3310 SOUTH MERIDIAN PUYALLUP, WA 98373 PIERCE COUNTY

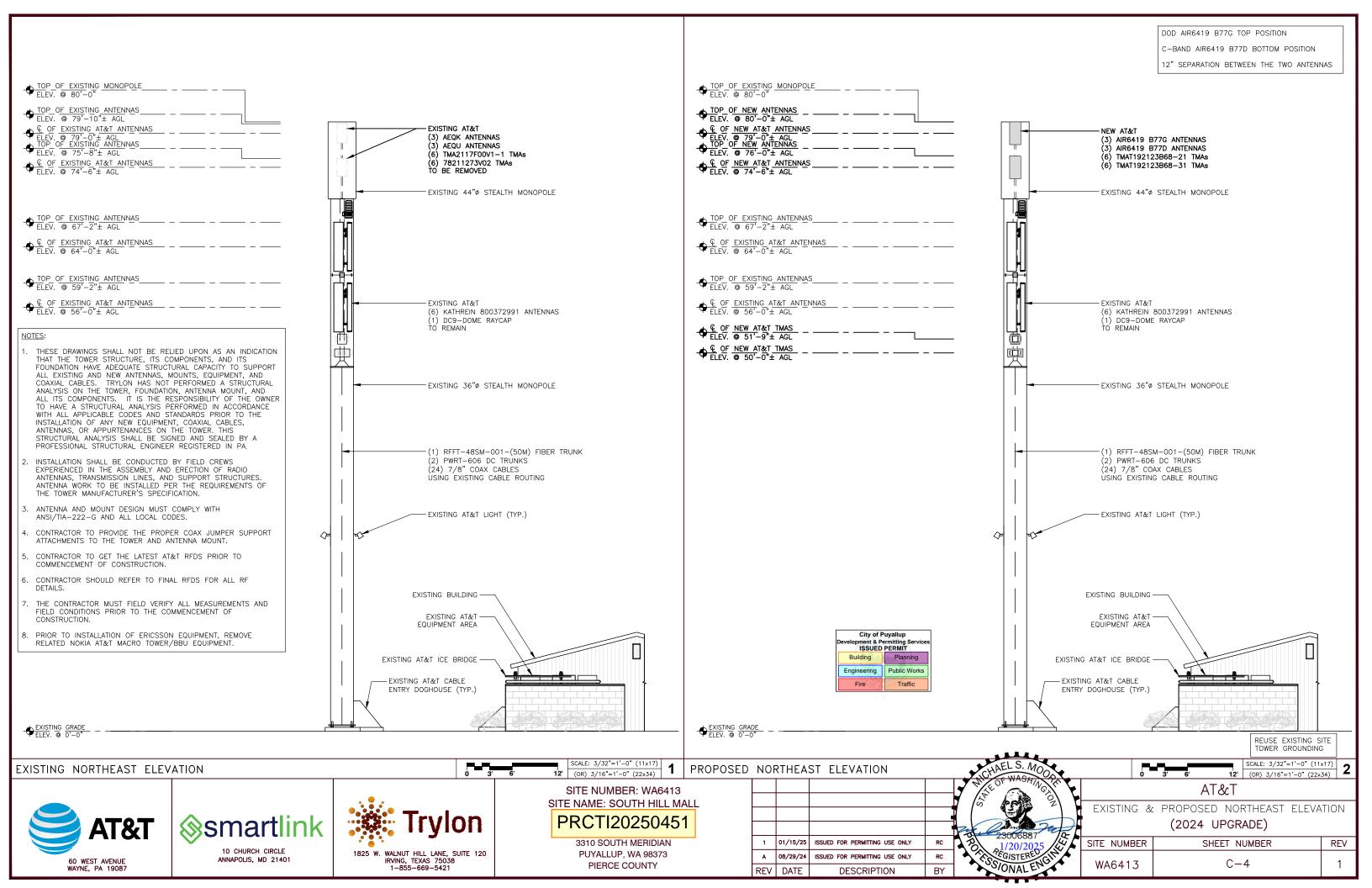
SCALE: 3/16"=1'-0" (11x17) (OR) 3/8"=1'-0" (22x34) 1 PROPOSED EQUIPMENT LAYOUT 01/15/25 ISSUED FOR PERMITTING USE ONLY A 08/29/24 ISSUED FOR PERMITTING USE ONLY REV DATE DESCRIPTION

SCALE: 3/16"=1'-0" (11x17)
(OR) 3/8"=1'-0" (22x34) AT&T

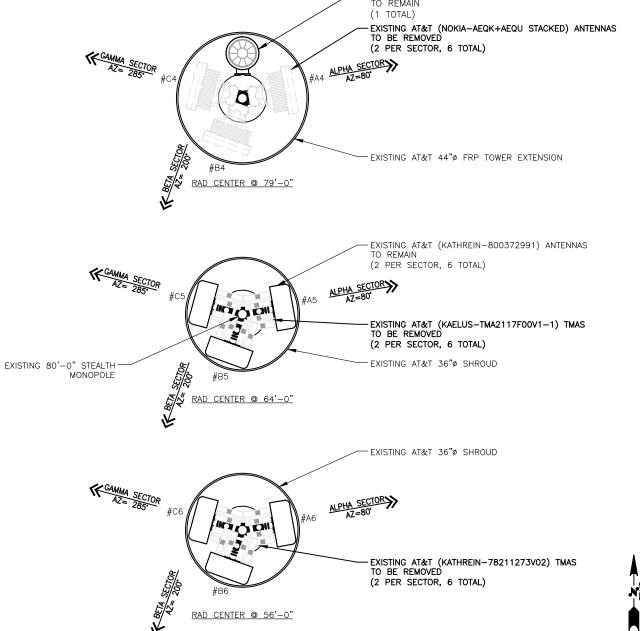
EXISTING & PROPOSED EQUIPMENT LAYOUT

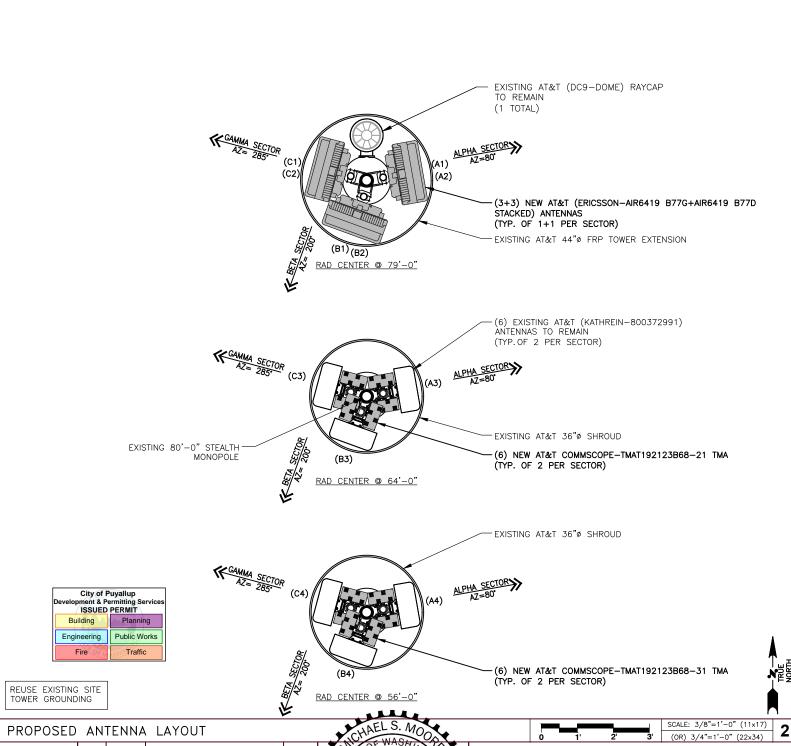
(2024 UPGRADE)

SITE NUMBER SHEET NUMBER WA6413



NOTES: THESE DRAWINGS SHALL NOT BE RELIED UPON AS AN INDICATION THAT THE TOWER STRUCTURE, ITS COMPONENTS, AND ITS FOUNDATION HAVE ADEQUATE STRUCTURAL CAPACITY TO SUPPORT ALL EXISTING AND NEW ANTENNAS, MOUNTS, EQUIPMENT, AND COAXIAL CABLES. TRYLON HAS NOT PERFORMED A STRUCTURAL ANALYSIS ON THE TOWER, FOUNDATION, ANTENNA MOUNT, AND ALL ITS COMPONENTS. IT IS THE RESPONSIBILITY OF THE OWNER TO HAVE A STRUCTURAL ANALYSIS PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS PRIOR TO THE INSTALLATION OF ANY NEW EQUIPMENT, COAXIAL CABLES, ANTENNAS, OR APPURTENANCES ON THE TOWER. THIS STRUCTURAL ANALYSIS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN PA. INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES, AND SUPPORT STRUCTURES. ANTENNA WORK TO BE INSTALLED PER THE REQUIREMENTS OF THE TOWER MANUFACTURER'S SPECIFICATION. 3. ANTENNA AND MOUNT DESIGN MUST COMPLY WITH ANSI/TIA-222-G AND ALL LOCAL CODES. 4. CONTRACTOR TO PROVIDE THE PROPER COAX JUMPER SUPPORT ATTACHMENTS TO THE TOWER AND ANTENNA MOUNT. 5. CONTRACTOR TO GET THE LATEST AT&T RFDS PRIOR TO COMMENCEMENT OF CONSTRUCTION 6. CONTRACTOR SHOULD REFER TO FINAL RFDS FOR ALL RF DETAILS. 7. THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. 8. PRIOR TO INSTALLATION OF ERICSSON EQUIPMENT, REMOVE RELATED NOKIA AT&T MACRO TOWER/BBU EQUIPMENT. EXISTING AT&T (DC9-DOME) RAYCAP TO REMAIN (1 TOTAL) - EXISTING AT&T (NOKIA-AEQK+AEQU STACKED) ANTENNAS TO BE REMOVED (2 PER SECTOR, 6 TOTAL)





SS/ONAL EN



EXISTING ANTENNA LAYOUT





SITE NUMBER: WA6413 SITE NAME: SOUTH HILL MALL PRCTI20250451

SCALE: 3/8"=1'-0" (11x17) (OR) 3/4"=1'-0" (22x34)

3310 SOUTH MERIDIAN PUYALLUP, WA 98373 PIERCE COUNTY

01/15/25

08/29/24

REV DATE

ISSUED FOR PERMITTING USE ONLY

ISSUED FOR PERMITTING USE ONLY

DESCRIPTION

AT&T EXISTING & PROPOSED ANTENNA LAYOUTS

DOD AIR6419 B77G TOP POSITION

C-BAND AIR6419 B77D BOTTOM POSITION

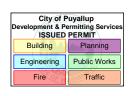
12" SEPARATION BETWEEN THE TWO ANTENNAS

(2024 UPGRADE) SHEET NUMBER

SITE NUMBER **REV** WA6413

EXISTING ANTENNA SCHEDULE AND RF SYSTEM									
SECTOR	ANTENNA POSITION	ANTENNA MAKE/MODEL	AZIMUTH	RAD CENTER	TIP HEIGHT	RRH MAKE/MODEL	SQUIDS	FEEDLINE	FEEDLINE LENGTH
ALPHA	#4	AEQK+AEQU	80°	79'-0" 74'-6"	80'-3" 75'-8"	INTEGRATED			
	#5	KATHREIN 800372991	80°	64'-0"	67'-3"	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA (GROUND) B25 RRH 4X30-4R (GROUND), (2) 78211458 DIPLEXER (GROUND) B66A RRH4X45-4R (GROUND), (2) 78211273V02 TMA	(1) DC9-48-60-24-8C-EV	(1) RFFT-48SM-001-50M FIBER TRUNK (1) PWRT-606 DC TRUNK (8) 7/8" COAX CABLES	170'-0"
	#6	KATHREIN 800372991	80°	56'-0"	59'-3"	AIRSCALE RRH 4T4R B5 160W AHCA (GROUND) RRH4×25-WCS-4R (GROUND), (2) 78211458 DIPLEXER (GROUND) (2) TMA2117F00V1-1 TMA			
	#4	AEQK+AEQU	200°	79'-0" 74'-6"	80'-3" 75'-8"	INTEGRATED			
BETA	#5	KATHREIN 800372991	200°	64'-0"	67'-3"	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA (GROUND) B25 RRH 4X30-4R (GROUND), (2) 78211458 DIPLEXER (GROUND) B66A RRH4X45-4R (GROUND), (2) 78211273V02 TMA	_	(1) PWRT-606 DC TRUNK (8) 7/8" COAX CABLES	170'-0"
	#6	KATHREIN 800372991	200°	56'-0"	59'-3"	AIRSCALE RRH 4T4R B5 160W AHCA (GROUND) RRH4x25-WCS-4R (GROUND), (2) 78211458 DIPLEXER (GROUND) (2) TMA2117F00V1-1 TMA			
	#4	AEQK+AEQU	285*	79'-0" 74'-6"	80'-3" 75'-8"	INTEGRATED			
GAMMA .	#5	KATHREIN 800372991	285*	64'-0"	67'-3"	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA (GROUND) B25 RRH 4X30-4R (GROUND), (2) 78211458 DIPLEXER (GROUND) B66A RRH4X45-4R (GROUND), (2) 78211273V02 TMA	_	(8) 7/8" COAX CABLES	170'-0"
	#6	KATHREIN 800372991	285*	56'-0"	59'-3"	AIRSCALE RRH 4T4R B5 160W AHCA (GROUND) RRH4×25-WCS-4R (GROUND), (2) 78211458 DIPLEXER (GROUND) (2) TMA2117F00V1-1 TMA			

PROPOSED ANTENNA SCHEDULE AND RF SYSTEM										
SECTOR	ANTENNA POSITION	ANTENNA MAKE/MODEL	AZIMUTH	RAD CENTER	TIP HEIGHT	RRH MAKE/MODEL	SQUIDS	FEEDLINE	FEEDLINE LENGTH	
	#1	ERICSSON AIR6419 B77G+AIR6419	80°	79'-0"	80'-0"	AIR 6419 B77G				
	#2	B77D STACKED		74'-6"	76 ' –0"	AIR 6419 B77D				
ALPHA	#3	KATHREIN 800372991	80*	64'-0"	67'-3"	(N) ERICSSON 4490 B5/B12A (GROUND), (2) TMAT192123B68-21 TMA	(1) DC9-48-60-24-8C-EV	(1) RFFT-48SM-001-50M FIBER TRUNK (1) PWRT-606 DC TRUNK	170'-0"	
ALFIIA	#5	KATHREIN 8003/2991	64 -0	6/-3	(N) ERICSSON 4890 B25/B66 (GROUND), (2) 78211458 TRIPLEXERS (GROUND)	(1) 000 40 00 24 00 EV	(8) 7/8" COAX CABLES	170 -0		
	#4	KATHREIN 800372991	80°	56'-0"	59'-3"	(N) ERICSSON 4471 B30 (GROUND), (2) TMAT192123B68-31 TMA				
	#4	KATHKEIN 800372991		56 -0	<u> </u>	(N) ERICSSON 4494 B14/B29 (GROUND), (2) 78211458 TRIPLEXERS (GROUND)				
	#1	ERICSSON AIR6419 B77G+AIR6419	200°	79'-0"	80'-0"	AIR 6419 B77G				
	#2	B77D STACKED	200	74'-6"	76'-0"	AIR 6419 B77D				
BETA	#3	#3	KATHREIN 800372991	200°	64'-0"	67'-3"	(N) ERICSSON 4490 B5/B12A (GROUND), (2) TMAT192123B68-21 TMA	_	(1) PWRT-606 DC TRUNK	170'-0"
BLIA		10.1711KEHV 666672551		04 -0	0, 3	(N) ERICSSON 4890 B25/B66 (GROUND), (2) 78211458 TRIPLEXERS (GROUND)		(8) 7/8" COAX CABLES	170 -0	
	#4 KATHREIN 800	KATHREIN 800372991	800372991 200° 56	56'-0"	59'-3"	(N) ERICSSON 4471 B30 (GROUND), (2) TMAT192123B68-31 TMA				
	#"	KATTIKEIN 800072991		36 -0		(N) ERICSSON 4494 B14/B29 (GROUND), (2) 78211458 TRIPLEXERS (GROUND)				
	#1 #2	ERICSSON AIR6419 B77G+AIR6419	285°	79'-0"	80'-0"	AIR 6419 B77G				
	#2	B77D STACKED		74'-6"	76'-0"	AIR 6419 B77D				
GAMMA	#3	KATHREIN 800372991	285°	64'-0"	67'-3"	(N) ERICSSON 4490 B5/B12A (GROUND), (2) TMAT192123B68-21 TMA	_	(8) 7/8" COAX CABLES	170'-0"	
O/ (WINE)	π ⁰	#3 MATTINEIN 60007/2991 285 64 -0 07 -3	0, 0	(N) ERICSSON 4890 B25/B66 (GROUND), (2) 78211458 TRIPLEXERS (GROUND)		(0) 7/0 COAN CABLES	1/0 -0			
	#4	KATHREIN 800372991	285°	56'-0"	59'-3"	(N) ERICSSON 4471 B30 (GROUND), (2) TMAT192123B68-31 TMA				
	π -	100072991	200	30 -0		(N) ERICSSON 4494 B14/B29 (GROUND), (2) 78211458 TRIPLEXERS (GROUND)				



EQUIPMENT	DC BREAKER
AIR6419 B77D	50A
AIR6419 B77G	50A
4890 B25/B66A	50A
4490 B5/B12	50A
4478 B14	25A
4494 B14/B29	50A
4415 B30	25A
6651	15A
6610	15A
SIAD S9500	5A
	•

PROPOSED ANTENNA SCHEDULE

AT&T

60 WEST AVENUE
WAYNE, PA 19087





SITE NUMBER: WA6413
SITE NAME: SOUTH HILL MALL
PRCTI20250451

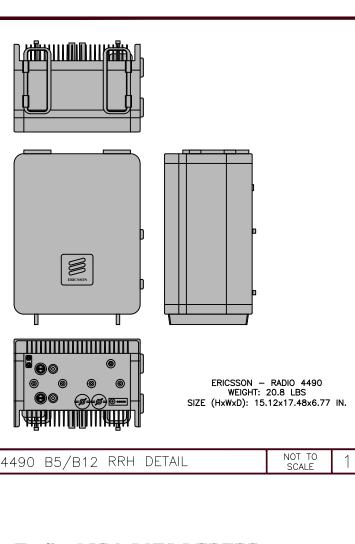
3310 SOUTH MERIDIAN PUYALLUP, WA 98373 PIERCE COUNTY

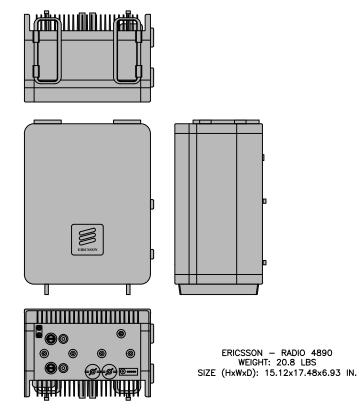
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A	08/29/24	ISSUED FOR PERMITTING USE ONLY	RC	1
REV	DATE	DESCRIPTION	BY	1

AT&T

EXISTING & PROPOSED ANTENNA SCHEDULES (2024 UPGRADE)

SITE NUMBER	SHEET NUMBER	REV
WA6413	C-6	1





ERICSSON AIR 6419 B77G

ERICSSON AIR 6419 has a total of 2 ECPRI connections @ 25.8 Gbps, 1 DC Power cable connection > Operates over B77G DOD band (3.4-3.6 GHz)
> Operates over B77G DOD band (3.4-3.6 GHz)
■ Breaker size = 45A DC, DC Power Consumption = 1280W (for dimensione)
Dimensione

- Height: 31.1" (790 mm)

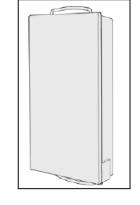
- Height: 31.T (190 mm)
- Width: 16.T (408 mm)
- Depth: 7.3" (186 mm)
- Depth: 7.3" (186 mm)
- Weight, excl. mounting hardware = 44 lbs (20 kg)
- Weight with Mounting Hardware = 55.4 lbs (25.2 kg)
- Max Frontal Wind Load @ 42m/s = 454 N

Horizontal Separation Required between AIR 6419 = 100mm Minimum Vertical Space Required below/above AIR 6419 = 300mm

 Commission resistances
 Infanct Large glass surfaces or conceits surfaces
 Audit radio interference by keeping the area directly in front of the
 anterma clear of metal surfaces such as railing, ladders or rehiers or
 equipment generating electromagnetic fields, for example, electric
 motors in air conditioners or dissel generators in front of anterna Do not use metallic paint to cover the AIR 6419 if painting is required Do not paint underside of AIR 6419.

Preliminary





Ericsson AIR 6419 B77D is a TDD-based 64T64R TRP.

3.7 - 3.98 GHz operational bandwidth

64T64R, max 16 layers (DL), 8 layers (UL), 192 antenna elements (AEs)*, 32 sub-arrays

Vertical and horizontal beamforming

 320W total output power, 79 dBm EIRP ** (angular average, dual polarization) OBW/IBW: 200 MHz

NR only
3 x 10/25 Gbps eCPRI ports

 28.2" x 16.1" x 7.2" 63 lbs. (w/o mounting kit)

Max power consumption/heat dissipation: 1135W (for dimensioning)

Convectional cooling

NOT TO SCALE AIR 6419 B77G B77D DETAIL 4490 B5/B12 RRH DETAIL 4890 B25/B66 RRH DETAIL -BOLT, CARRIAGE, M12 X200 STEEL GALVANIZED NUT, HEX, M10 STEEL-GALVANIZED, WASHER, LK, SPLT, M10 STEEL GALVANIZED, NUT, HEX,

Radio 4494 44B14 20B29

- Dual band4T4R/21 PA power
- B14: 4x40W B29: 2x40W
- B14: L5, L10, N5, N10, ESS10, NB-IoT (IB, GB & SA)
- CPRI 2x2.5/4.9/9.8/10.1/24.3 Gbps eCPRI 2x10.3/25.8 Gbps
- Front area:384mm x 444mm
- Depth and weight 43mm (24 liter) & 26kg
- 48VDC 3-wire or 2-wire (single DGconnector) AISG TMA & RET support via R\$485 or RF connectors
- 2 external alarm
- Optional fan for increased site flexibility IP65, -40 to +55 C
- Power consumption: 15% reduction compared to 4478B14 + 2012B29 for the same configuration

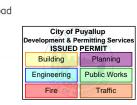
PRA target, June 2024



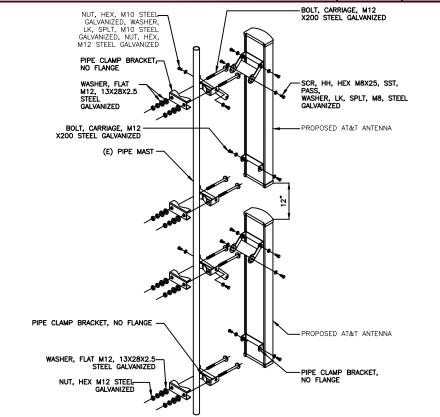


Radio 4471 B30

- 4T4R single-band FDD
- Output power: 4x25W
- RAT support: L, NR
- CPRI 2x2.5/4.9/9.8/10.1/24.3 Gbps eCPRI 2x10.3/25.8 Gbps
- Size (max) 13 liter / 13 kg -Target (HxWxD) 361x261x129
- -48 VDC 3-wire or 2-wire (single DC-connector)
- AISG TMA & RET support via RS-485 or RF connectors
- · 2 external alarm
- · Support for 12dB TMA
- · Convectional cooling
- IP 65, -40 to +55°C FCC and NEBS compliant
- Power consumption: Estimate >15% reduction compared 4415 B30 in typical traffic load (typical traffic load is defined in PowerCalc with average 21% output power)



NOT TO



4494 B14/B29 RRH DETAIL

4471 B30 RRH DETAIL 4

> SITE NUMBER: WA6413 SITE NAME: SOUTH HILL MALL

PRCTI20250451 3310 SOUTH MERIDIAN

PUYALLUP, WA 98373

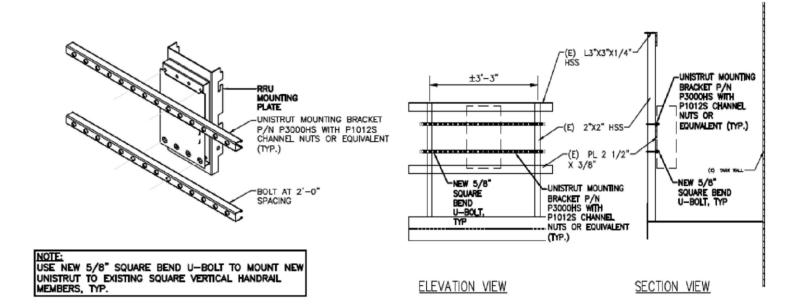
PIERCE COUNTY

01/15/25 ISSUED FOR PERMITTING USE ONLY 08/29/24 ISSUED FOR PERMITTING USE ONLY REV DATE DESCRIPTION BY MAENRAMOSUNTING DETAIL 6 AT&T CONSTRUCTION DETAILS (2024 UPGRADE) SITE NUMBER SHEET NUMBER REV A-1WA6413









Tower Bottom Configuration: All Markets

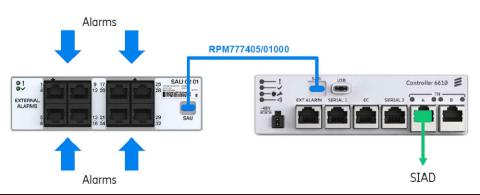
 Configuration A1.3: 1 5G BB + 1 LTE BB (1st G3: TDD AAS + NR FDD + 2nd G3: FDD NR/LTE) - 2xRANP6651+ CNTR6610 + SAU



- Radio 4490/4449 B5 (850) and B12 (700) OR Radio 4478 B12 (700) OR Radio 4478 B5 (850). Connect Data_1 to 1.* G3 NR Cells and Data_2 to 2nd G3 LTE Cells.
- Radio 4494 B14 (FNET) and B29 (700DE) OR Radio 4478 B14 (FNET)
- AIR 6472 B77D (C-Band) and B77G (3.45) (2 x eCPRI —> BW = 120MHz) OR AIR6449/AIR6449 B77D (C-Band A1/B1/C1) + AIR6449 B77G (3.45 A2/B2/C2)
- Radio 4890/8843 B25 (PCS) and B66 (AWS). Connect Data_1 to 1st G3 NR Cells and Data_2 to 2st G3 LTE Cells.
- Radio 4471 B30 (WCS) OR Radio 4415 B30 (WCS)

External Alarm

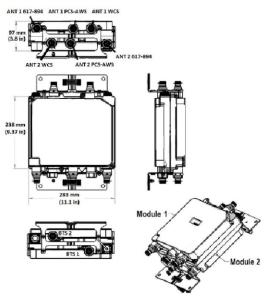
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RRH & UNISTRUT MOUNTING DETAIL

NOT TO SCALE

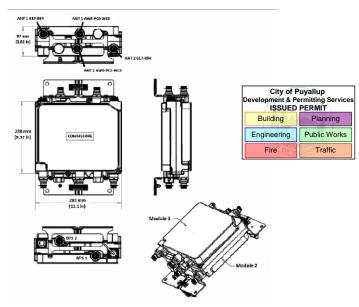
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Dimensions

238 mm | 9.37 in Height Width 283 mm | 11.142 in 97 mm | 3.819 in Depth **Ground Screw Diameter** 6 mm | 0.236 in

Mounting Pipe Diameter Range 40-160 mm



NOT TO

Dimensions

Height 283 mm | 11.142 in Width 238 mm | 9.37 in Depth 97 mm | 3.819 in **Ground Screw Diameter** 6 mm | 0.236 in

Mounting Pipe Diameter Range 40-160 mm

ERICSSON 6651 & 6610 BBU DETAIL

AT&T 10 CHURCH CIRCLE ANNAPOLIS, MD 21401 60 WEST AVENUE WAYNE, PA 19087



SITE NUMBER: WA6413 SITE NAME: SOUTH HILL MALL PRCTI20250451

> 3310 SOUTH MERIDIAN PUYALLUP, WA 98373 PIERCE COUNTY

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21 TMA DETAIL AT&T CONSTRUCTION DETAILS (2024 UPGRADE) SHEET NUMBER SITE NUMBER REV A-2WA6413

Vertiv[™] eSure[™] Converter



Key Benefits

Converter, 48 to 58 VDC, 2000 W Peak / 1600 W Average

- Reduce power consumption and lower operating costs with 95% peak efficiency.
- Easily add capacity with hot pluggable interchangeable components.
- Ensure high availability with wide input voltage range from 41 VDC to 58 VDC.
- Power your 5G sites in the harsh environments with operation from -40°C to +65°C.
- Enjoy peace of mind with high quality UL recognized design.

Easily support higher power 5G remote radios on cell towers with modular 2000 watt eSureTM power extend converters.

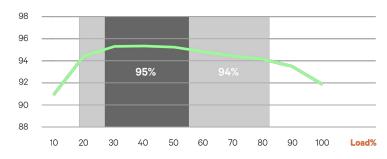
Description

The Vertiv™ eSure™ C48/58-2000P3 high-efficiency converter is designed to operate from a nominal -48 VDC source to provide nominal -58 VDC load power, which is adjustable to application needs needs up to 2000 watts peak, 1600 watts average. This constant power converter designed with the latest patented switchmode technology, uses digital signal processing (DSP) for efficient operation.

The eSure C48/58-2000P3 DC to DC converter is ideal for feeding high power remote radio heads (RRHs). 58 VDC is regulated over a wide input range to minimize voltage drop in the cable feeding the RRH and sustain operation to end of battery discharge. When redundancy is critical or loads are high, multiple eSure C48/58-2000P3 converters can be connected in parallel to support a variety of telecom applications. Unified remote management and control of the power system is enabled when combined with a Vertiv™ NetSure™ controller.



% Efficiency



C48/58-2000P3 Efficiency Curve at 53.5 VDC Nominal Input

Vertiv[™] eSure[™] Converter



Technical Specifications

DC Input	C48/58-2000P3
Voltage	41 VDC to 58.5 VDC, 48 VDC (nominal)
Maximum Current	53 A

DC Output

56 VDC to 58 VDC
2000 W peak, 1600 W average at 40°C, 1280 W average at 65°C
35.7 A at 2000 W peak (see figure 1), 28.6 A at 1600 W average, 22.9 A at 1280 W average, all at 56 VDC
>95%
< 250mV pk-pk; < 20mV rms; <38 dBrnC

Control and Monitoring

Alarms and Signaling Alarm and status reported via CAN bus to system controller Green LED: Normal Operation Yellow LED: Alarm Red LED: Failure Flashing Red LED: Fan Failure	_	
Visual Indications Yellow LED: Alarm Red LED: Failure	Alarms and Signaling	Alarm and status reported via CAN bus to system controller
	Visual Indications	Yellow LED: Alarm Red LED: Failure

Environmental

Operating Temperature	-40°C to +80°C / -40°F to +176°F (see figure 2)
Storage Temperature	-40°C to +85°C / -40°F to +185°F
Relative Humidity	0 to 90%
Altitude	2000 m / 6560 ft at full power

Standards Compliance

Safety	UL62368-1, EN62368-1, IEC62368-1	
EMC	FCC CFR 47 Part 15 Class A conducted and Class B radiated	
Environment	REACH, RoHS	

Dimensions (H x W x D)	41 x 84.5 x 252.5 mm / 1.61 x 3.33 x 9.94 inches
Weight	1.13 kg / 2.49 lbs

Ordering Information

Part Number	Description	
1C48582000P3	eSure™ converter, -48 to -58 VDC, 2000 W peak / 1600 W average	

Figures

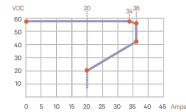


Figure 1: Output Voltage vs. Output Current at Maximum peak Power 2000 W

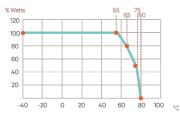
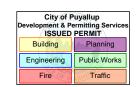


Figure 2: Output Power vs. Temperature at -41VDC≥Vin ≥ -58VDC

Vertiv.com | Vertiv Headquarters, 1050 Dearborn Drive, Columbus, OH, 43085, USA

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C48/58-2000P3 (R06/2022)



SCALE

POWER EXTEND CONVERTER DETAIL







SITE NUMBER: WA6413 SITE NAME: SOUTH HILL MALL PRCTI20250451 3310 SOUTH MERIDIAN

PUYALLUP, WA 98373

PIERCE COUNTY

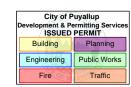
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AT&T POWER EXTEND CONVERTER DETAILS (2024 UPGRADE)

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SITE NUMBER	SHEET NUMBER	REV
WA6413	A-3	1

PENDING



SITE DATA INPUT







SITE NUMBER: WA6413
SITE NAME: SOUTH HILL MALL
PRCTI20250451

3310 SOUTH MERIDIAN
PUYALLUP, WA 98373
PIERCE COUNTY

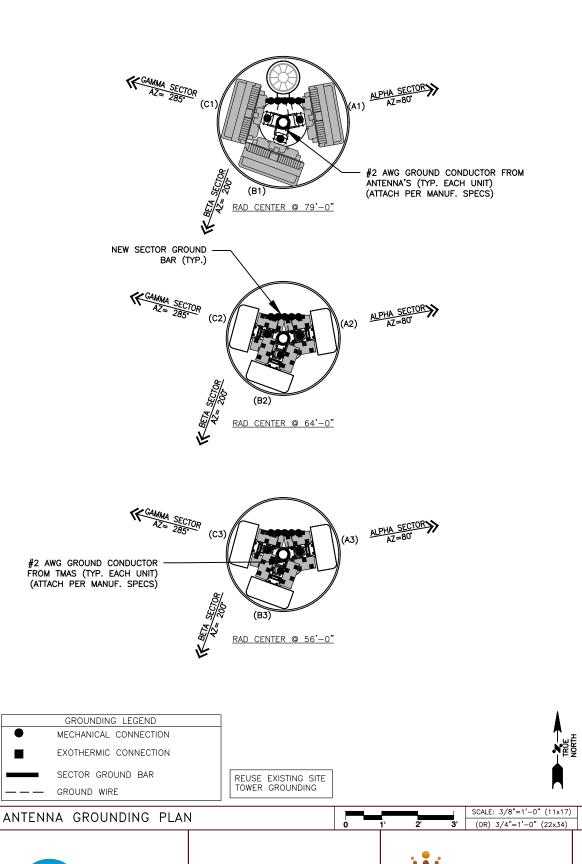
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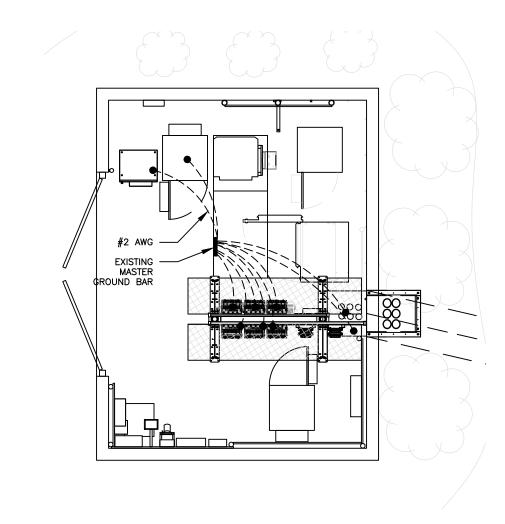
ANNAPOLIS, MD 21401

AT&T

60 WEST AVENUE WAYNE, PA 19087

AT&T STANDARDS TO REFER TOO: ATT-CEM-23001 ATT-TP-76416

ATT-TP-76300 ATT-CEM-18002 ATT-002-290-531 ATT-002-290-701



NOTES:

- 1. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 2. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND
- 3. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- 4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 5. GROUND CONDUCTORS USED IN THE FACILITY GROUND 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 PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ANY EQUIPMENT, BOX, SKID TO BE GROUNDED AND DOES NOT HAVE A DESIGNATED GROUND CONNECTION SHALL BE DRILLED AS NECESSARY TO CONNECT A GROUND WIRE. REMOVE PAINT IN AREA UNDER LUG. APPLY ANTI-OXIDANT COMPOUND AND CONNECT WITH TWO-HOLE, COMPRESSION
- 7. GROUND BARS SHALL BE TINNED COPPER AND SHALL BE ENGRAVED OR IMPRESSED "STOLEN-DO NOT RECYCLE" AND/OR "PROPERTY OF AT&T", ETCHED OR STAMPED WITH SITE FA LOCATION AND SECURED WITH ANTI-THEFT HARDWARE.
- 8. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING FOR GROUND ELECTRODE SYSTEMS. TESTING SHALL BE IN ACCORDANCE WITH IEEE STD 81.
- 9. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. WHEN ADDING ELECTRODES, CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE BETWEEN THE ADDED ELECTRODE AND ANY OTHER EXISTING ELECTRODE EQUAL TO THE BURIED LENGTH OF THE ROD. IDEALLY, CONTRACTOR SHALL STRIVE TO KEEP THE SEPARATION DISTANCE EQUAL TO OR LESS THAN TWICE THE BURIED LENGTH OF THE RODS.
- 10. 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
- 11. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- 12. EACH INTERIOR COMMUNICATION CABINET FRAME/PLINTH SHALL BE ELECTRICALLY ISOLATED FROM GROUNDS AND SHALL BE DIRECTLY CONNECTED TO THE CELL REFERENCE GROUND BAR WITH 6 AWG OR LARGER STRANDED, GREEN INSULATED GROUND WIRES.
- 13. GROUND WIRING INSTALLED OUTDOOR EXPOSED SHALL BE 600V, GREEN SUNLIGHT RESISTANT UL LISTED TYPE THW OR THWN OR XHHW, ANNEALED, TINNED, OR UN-TUNNED CLASS B OR CLASS I STRANDED COPPER, SIZE 6 UNLESS OTHERWISE SPECIFIED.
- 14. GROUND RODS SHOULD BE SPACED AT APPROXIMATELY TWICE THEIR LENGTH AS PER ATT-TP-76416 SPECIFICATIONS.



WA6413

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City of Puyallup pment & Permitting Ser ISSUED PERMIT Building Planning Public Works Engineering Fire Traffic

1 EQUIPMENT GROUNDING PLAN

> SITE NUMBER: WA6413 SITE NAME: SOUTH HILL MALL

PRCTI20250451

01/15/25 ISSUED FOR PERMITTING USE ONLY 08/29/24 ISSUED FOR PERMITTING USE ONLY REV DATE DESCRIPTION BY AT&T

GROUNDING PLAN

(2024 UPGRADE) SITE NUMBER SHEET NUMBER REV

SCALE: 3/16"=1'-0" (11x17)

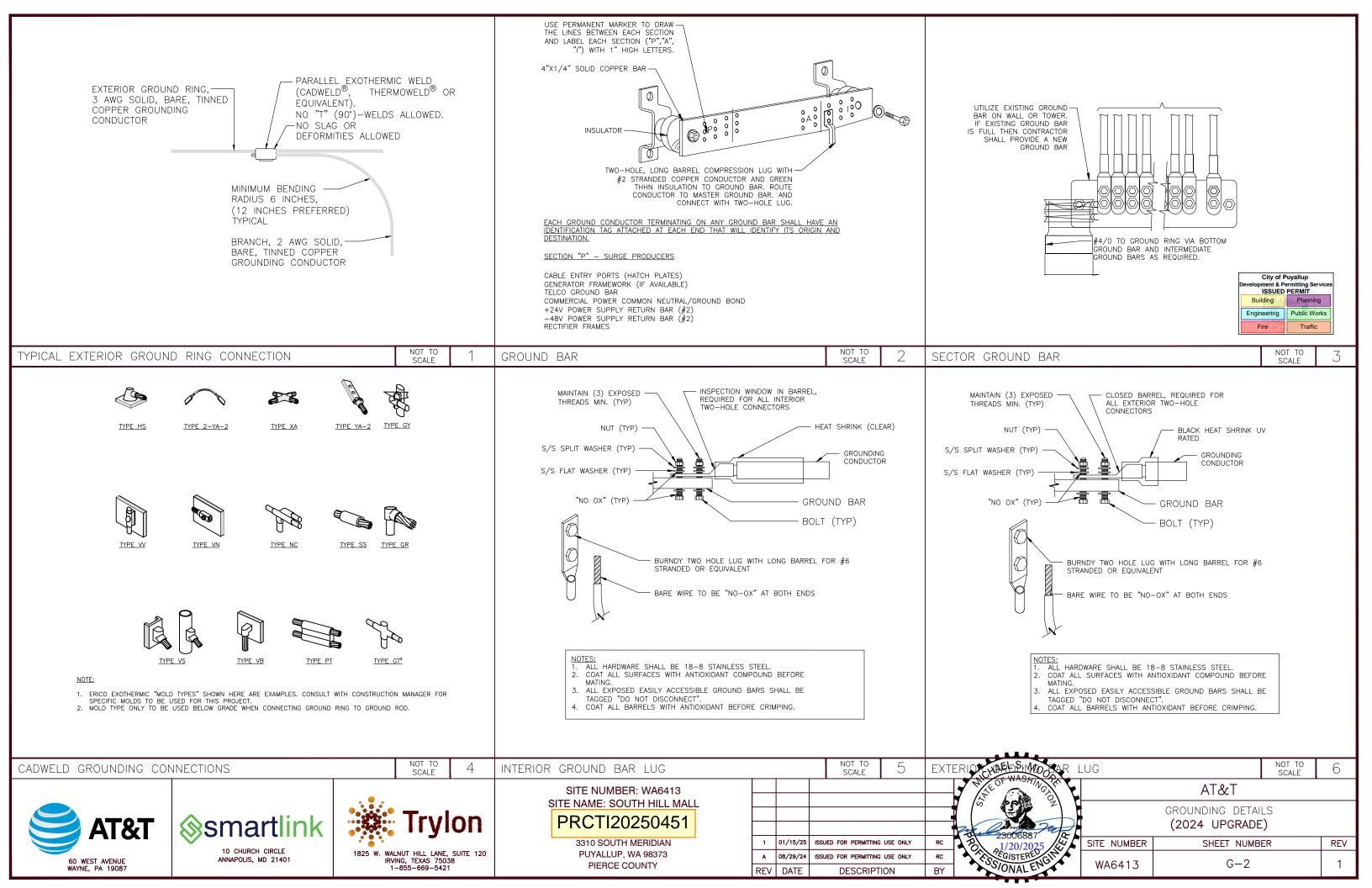
(OR) 3/8"=1'-0" (22x34)

3310 SOUTH MERIDIAN

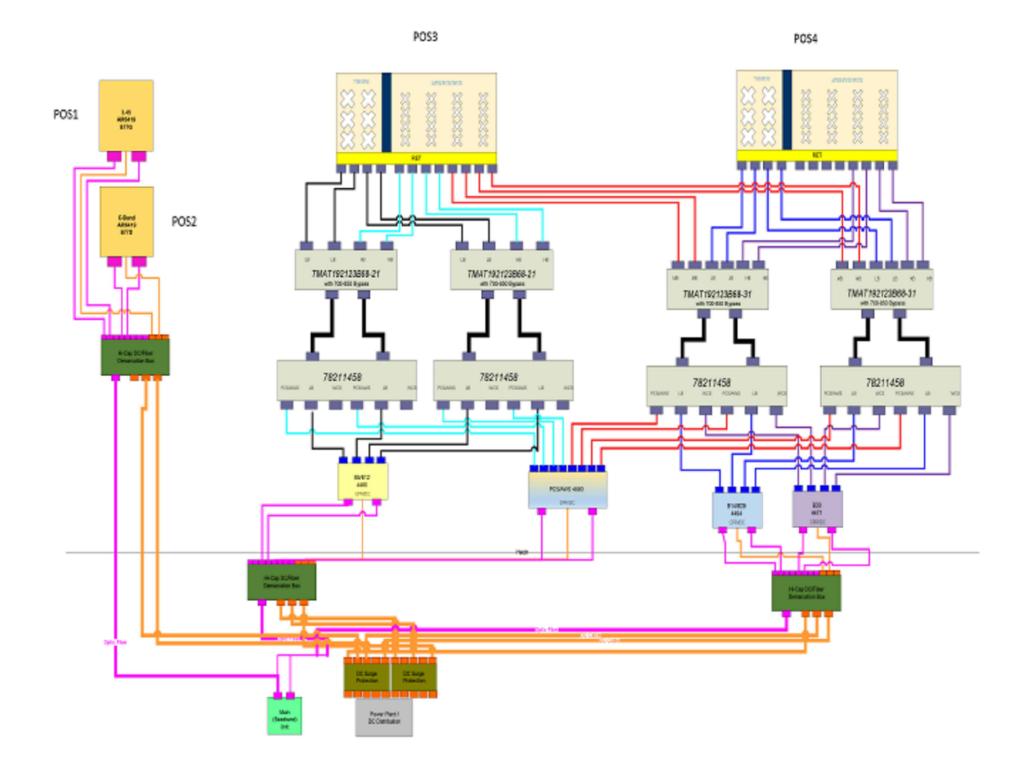
PUYALLUP, WA 98373 PIERCE COUNTY

1825 W. WALNUT HILL LANE, SUITE 120

IRVING, TEXAS 75038 1-855-669-5421



Sector A



City of Puyallup Development & Permitting Services ISSUED PERMIT		
Building	Planning	
Engineering	Public Works	
Fire OF V	Traffic	

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RF PLUMBING DIAGRAM ALPHA SECTOR







SITE NUMBER: WA6413		
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3310 SOUTH MERIDIAN	
PUYALLUP, WA 98373	
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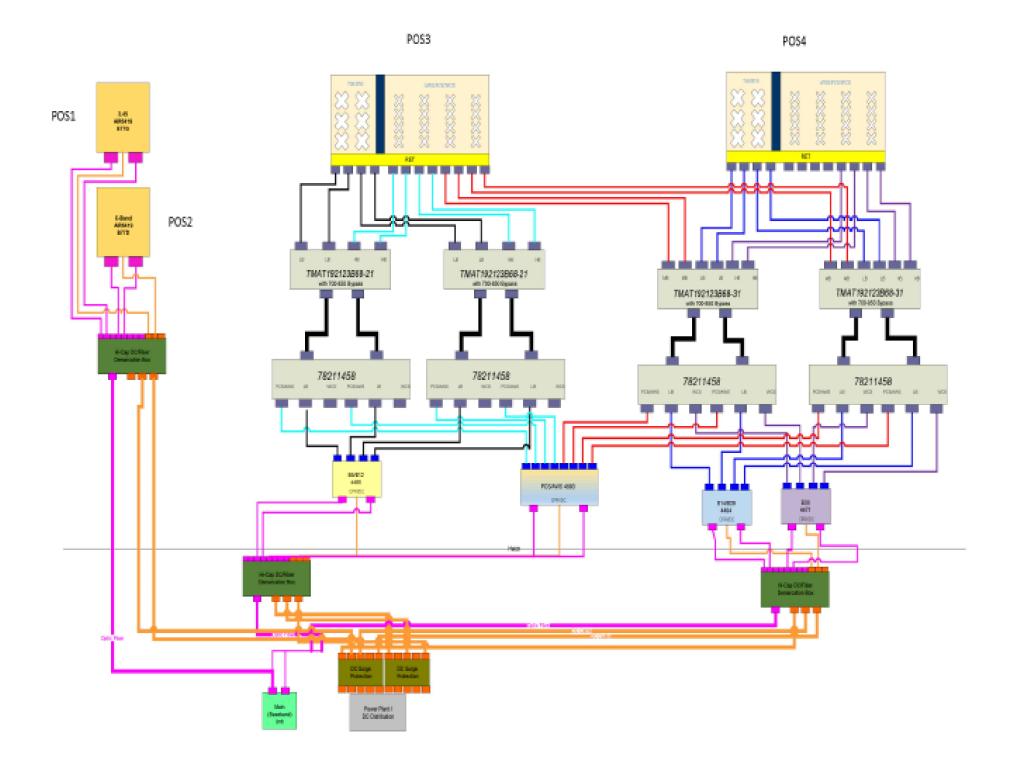
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PLUMBING DIAGRAM - ALPHA SECTOR

(2024 UPGRADE)

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Sector B



City of Puyallup
Development & Permitting Service
ISSUED PERMIT
Building Planning
Engineering Public Works
Fire Traffic

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RF PLUMBING DIAGRAM BETA SECTOR







SITE NUMBER: WA6413	
SITE NAME: SOUTH HILL MALL	5
PRCTI20250451	

3310 SOUTH MERIDIAN	
PUYALLUP, WA 98373	
PIERCE COUNTY	

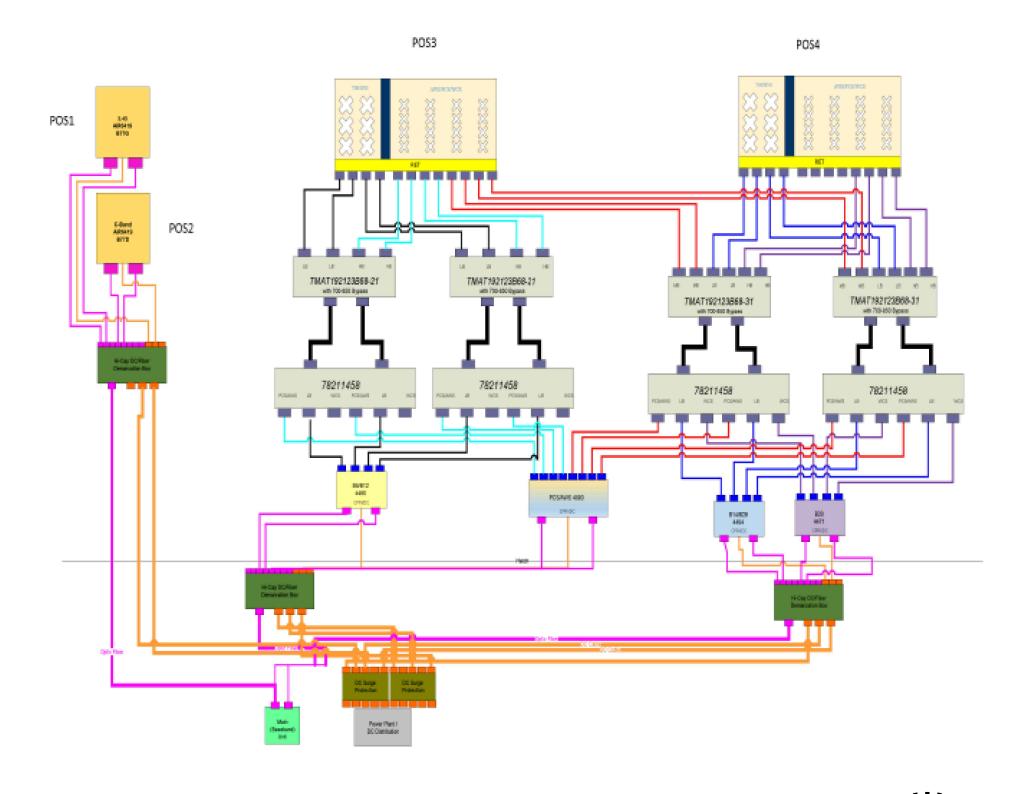
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PLUMBING DIAGRAM — BETA SECTOR (2024 UPGRADE)

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Sector C



City of Puyallup
Development & Permitting Service:
ISSUED PERMIT
Building Planning
Engineering Public Works
Fire Traffic

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RF PLUMBING DIAGRAM GAMMA SECTOR

AT&T

60 WEST AVENUE
WAYNE, PA 19087





SITE NUMBER: WA6413			
SITE NAME: SOUTH HILL MAL			
PR	CTI20250451		

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PUYALLUP, WA 98373	
PIERCE COUNTY	

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PLUMBING DIAGRAM - GAMMA SECTOR (2024 UPGRADE)

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