

T-MOBILE SITE ID: PO01625E

PROJECT: GENERATOR ADD

SITE CONFIGURATION: 56790EZ\_SR

SITE NAME: WOODLAND DOWNTOWN

SBA SITE ID: WA48195-A

SITE TYPE: MONOPOLE

SITE ADDRESS: 271 NORTH PEKIN ROAD,, WOODLAND, WA 98674

# SITE INFORMATION

PROPERTY OWNER:

COLUMBIA RIVER CARBONATES P.O. BOX 2350, 300 N PEKIN ROAD WOODLAND, WA 98674

APPLICANT: ADDRESS: LAT/LONG TYPE: T-MOBILE WEST CORPORATION 830 NE HOLLADAY ST PORTLAND, OR 97232

LATITUDE LONGITUDE:

ZONING JURISDICTION: CITY OF WOODLAND ZONING CLASSIFICATION: I-2 HEAVY INDUSTRIAL

UNMANNED TELECOMMUNICATIONS FACILITY CURRENT USE:

ASSESSOR'S PARCEL NO.: 507350118

UNMANNED TELECOMMUNICATIONS FACILITY PROPOSED USE:

45.905721

-122 760214°

TYPE OF CONSTRUCTION: OCCUPANCY GROUP:

## PROJECT TEAM

CLIENT REPRESENTATIVE: T-MOBILE WEST CORPORATION 830 NE HOLLADAY ST. PORTLAND, OR 97232

SITE DEVELOPMENT SPECIALIST JACOB FINNEY, TOM McAULIFFE SBA COMMUNICATIONS 959 SOUTH COAST DR, SUITE 200 COSTA MESA, CA 92626

1387 CALLE AVANZADO SAN CLEMENTE, CA 92673 CONSTRUCTION MANAGER: T-MOBILE WEST CORPORATION 830 NE HOLLADAY ST. PORTLAND, OR 97232

RF ENGINEER: T-MOBILE WEST CORPORATION

# DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME. NOTE: IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE.



# **DRIVING DIRECTIONS**

## DIRECTIONS FROM 830 NE HOLLADAY ST

- HEAD NORTH TOWARD NE ALDERWOOD RD
- 2. TURN RIGHT TOWARD NE ALDERWOOD RD TURN RIGHT ONTO NE ALDERWOOD RD
- TURN LEFT ONTO NE HOLMAN ST

MERGE ONTO I-205 N

- TURN LEFT ONTO NE AIRPORT WAY TURN RIGHT TO MERGE ONTO I-205 N TOWARD SEATTLE
- TAKE EXIT 21 FOR WA-503 E TOWARD WOODLAND/COUGAR
- TURN LEFT ONTO WA-503 N/LEWIS RIVER RD
- 10. SLIGHT LEFT ONTO GOERIG ST 11. TURN RIGHT ONTO DAVIDSON AVENUE
- 12. TURN RIGHT ONTO N PEKIN RD
- 13. TURN LEFT DESTINATION WILL BE ON THE LEFT

# PROJECT DESCRIPTION

T-MOBILE PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY.

(1) GENERAC STAND-BY DIESEL GENERATOR WITH BASE FUEL 200A ATS/CAMLOCK WITHIN EQUIPMENT ENCLOSURE NEW 4'X10' CONCRETE PAD WITH ICE CANOPY

GN-1.0	GENERAL NOTES
A-1.0	SITE PLAN & ENLARGED SITE PLAN
A-2.0	EQUIPMENT LAYOUT
A-3.0	ELEVATIONS
D-1.0	DETAILS
D-2.0	DETAILS
G-1.0	GROUNDING DETAILS
	I .

TITLE SHEET

SHEET NO:

T-1.0

# **GENERAL NOTES**

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN AN SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE: NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEW

## **ENGINEERING**

- 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.

  2012 INTERNATIONAL BUILDING CODE

  2012 INTERNATIONAL ENERGY CONSERVATION CODE
- 2012 INTERNATIONAL FIRE CODE
- 2012 INTERNATIONAL FUEL GAS CODE 2012 INTERNATIONAL MECHANICAL CODE
- 2012 INTERNATIONAL MECHANICAL CODE 2012 UNIFORM PLUMBING CODE 2012 INTERNATIONAL RESIDENTIAL CODE 2009 INTERNATIONAL WILDLAND-URBAN CODE
- CITY/COUNTY ORDINANCES
- LOCAL BUILDING CODE

## **APPROVALS**

THE FOLLOWING PARTIES HERERY APPROVE AND ACCEPT THESE DOCUMENTS & ALITHORIZE THE SUBCONTRACTO D PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN, ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE

**DRAWING INDEX** 

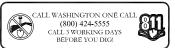
SHEET TITLE

T-MOBILE RF ENGINEER:	DATE:	
T-MOBILE OPERATIONS:	DATE:	
SITE ACQUISITION:	DATE:	
CONSTRUCTION MANAGER:	DATE:	
PROPERTY OWNER:	DATE:	
ZONING:	DATE:	
PROJECT MANAGER:	DATE:	

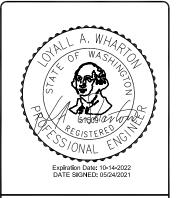
# T · · Mobile · · 8960 ALDERWOOD ROAD







- 1						
	$\Box$					
	В	05/17/2017	100% CD'S FOR SUBMITTAL	MP		
	Α	02/22/2021	90% CD'S FOR REVIEW	DGM		
	REV	DATE	DESCRIPTION	ву		



LIS A VIOLATION OF LAW FOR ANY PERSON, UNLESS TH ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

T-MOBILE SITE ID: PO01625E SITE NAME: WOODLAND DOWNTOWN ADDRESS: 271 NORTH PEKIN ROAD, WOODLAND, WA 98674 SITE TYPE: MONOPOLE SBA SITE ID: WA48195-A

SHEET TITLE

**TITLE SHEET** 

T-1.0

- GENERAL CONSTRUCTION NOTES:

  I. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY: GENERAL CONTRACTOR - GENERAL CONTRACTOR
- SUBCONTRACTOR CONTRACTOR (CONSTRUCTION)

- OWNER T-MOBILE
  ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND T-MOBILE PROJECT SPECIFICATIONS.
  GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL
  CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL ONTRACT 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 ARCHITECT/PROFILER PRIOR TO THE COMMENCEMENT OF WORK.

  4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES,
- REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LT-MOBILE, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY
- WITH ALL LI-MOBILE, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.

  5. 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.
- 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 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 SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK, DETAILS ARE INTENDED TO SHOWN 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 ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK
- 8 THE SUBCONTRACTOR SHALL INSTALL ALL FOLIEMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S
- 8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

  9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS. THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECTINGNIERER 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
- 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 WORKMANLIKE 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.
- 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 (E) CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO THE BEGINNING
- 15. SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO
- COMMENCEMENT OF WORK.

  16. THE SUBCONTRACTOR SHALL PROTECT (E) IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES.
- ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

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

  18. 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

- 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 POPTRABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-Bic AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
  22. ALL (E) 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 ARCHITECT/ENIGNEER. 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, D) TRENCHING & EXCAVATION.
  23. ALL (E) IMACTIVE 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 ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.

- INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ARCHITECT/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. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE (E) SITE DURING CONSTRUCTION, EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- 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 PAYEMENT 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.
- 28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE
- 28. ALL NECESSARY KUBBISH, STUMPS, DEBRIS, STICKS, STUMES, AND OTHER REFUSE STALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.

  29. 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 PRIOR TO
- 30. SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT
- 31. SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
  32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HADNICAP ACCESS REQUIRED).
  33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY
- T-MOBILE TECHNICIANS.

  34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- 34. NO OUTDOOR STORAGE OR SOLID WASTA CONTAINERS ARE PROPOSED.
  35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION T-MOBILE GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSMIGPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
  3. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR DAMAGED TO THE GENERAL CONTRACTOR
- 37 SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 37. SOBCONTRACTOR STALE REMOVE ALL INFAST AND DEBRIS FROM THE STIE OWN DAIL T BASIS.

  38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM STIE 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.

  39. NO WHITE STROBIC LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND
- REQUIREMENTS.
- 40. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. 41. NO NOISE, SMOKE, DUST, OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS
- 42. NO ADDITIONAL PARKING TO BE PROPOSED. (E) ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
  43. NO LANDSCAPING IS PROPOSED AT THIS SITE, UNLESS NOTED OTHERWISE.

- ELECTRICAL NOTES:

  1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL ADDITIONS IF ANY ADDITIONS IF ANY ADDITIONS. IF ANY ADDITIONS IF ANY ADDITIONS. CONSTRUCTION SHALL BE IN ACCORDANCE WIDAWINGS AND ANY/ALL ELECTROPICATIONS, IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE
- ACTIONS TO BE TAKEN.
  2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF, ALL (E) CONDITIONS OF ELECTRICAL EQUIP, LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID, FAILURE TO COMPUTE THIS HARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
- C NATIONAL FIRE CODES
- NATIONAL FIRE CODES

  A. UL UNDERWRITERS LABORATORIES

  B. NEC NATIONAL ELECTRICAL CODE

  NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
- OSHA OCCUPATIONAL SAFETY AND HEALTH ACT
- SBC STANDARD BUILDING CODE

- E. SBC STANDARD BUILDING CODE

  4. DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.

  5. (E) SERVICES: CONTRACTOR SHALL NOT INTERRUPT (E) SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.

  6. CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THAT THE
- CONTRACTOR SHALL FURNISH AND INSTALL CONTRACTOR SHALL FORNISH AND INSTALL.

  CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE
  RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS'
  CONFIRMATION, ETC... ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION
- MANAGER, PRIOR TO BEGINNING ANY WORK.
  MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL
- CONDUCTORS SHALL BE COPPER WITH THWN INSULATION
- CONDUCTORS SHALL BE COPPER WITH THIWN INSULATION.

  10. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.

  11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- 12. ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED. AS REQUIRED BY SPECIFICATIONS. SET FORTH BY T-MOBILE
- SELFORTHEY FIMOBILE.

  3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.

  14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF
- CONSTRUCTION,
- 15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS
- THAN ONE YEAR FROM DATE OF ACCEPTANCE.

  THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE
  THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE

  BEEN
- DAMAGED THEREIN.

  17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK
- 18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS
- AS INDICATED.

  19. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS
- 'EXCAVATION, AND BACKFILLING. 20. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE (N) AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC. NEMA AND
- IEUE.

  21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANYIALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

  22. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS
- RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' LIPON FINAL ACCEPTANCE
- CONSTRUCTION MANAGER UPON FINAL ACCEPTANCE.

  3. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

  24. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS DECLURED BY ENFORMED BY THE PROPERTY.
- REQUIRED BY EXPOSURE TYPE. 25. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES
- A" BY DEARBORNIE CHEMICAL CO, COAT ALL WIRE SURFACES BEFORE CONNECTING, EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED NO SUBSTITUTIONS.

  RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS, RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL, ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.
- RIGID CONDUIT, COAT ALL THREADS WITH 1981 IE ZINC OR GOLD GALV.

  2. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.

  2. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, 800 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE BADVE NO. 8 AWG.

  2. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON.
- CONNECTORS FOR NO. 10 AWG AND SMALLER, USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND
- 30. SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS
- AGENT WILL APPLIT FOR PUWER.

  31. TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- 32. ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
- 33. CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM".

  34. ALL BOLTS SHALL BE STAINLESS STEEL

- GROUNDING NOTES:
  1. COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR, ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL
- SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND
- LABEL EACH SECTION ("P", "A", "I") WITH 1" HIGH LETTERS.

  ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING, ALL HARDWARE SHALL BE STAINLESS
- STEEL 38 INCH DIAMETER OR LARGER, FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING, NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED
- ON THE BACK SIDE.
  NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION, PROVIDE AS REQUIRED.
- LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
  WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN (E)
  TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO
  MOUNTING THE GROUNDING BAR TO THE TOWER.
  ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL
- ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

## SITE WORK & DRAINAGE

## PART 1 - GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

## 1.1 REFERENCES

- DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION+CURRENT EDITION),
   ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
   OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

### 1.2 INSPECTION AND TESTING:

- FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
  ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

## 1.3 SITE MAINTENANCE AND PROTECTION

- 1.3 STE MAINTENANCE AND PROTECTION:
   A PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
   B. AVOID DAMAGE TO THE SITE AND TO (E) FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN, TAKE PROTECTIVE MEASURES TO PREVENT (É) FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK
- KEEP SITE EREE OF ALL PONDING WATER
- REEF SITE FREE OF ALL POINTING WATER.

  PROVIDE ENGSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.

  PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY
  TO PROTECT ACAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION, REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- (E) UTILITIES: DO NOT INTERRUPT (E) UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS. EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE
- PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE,

DELETERIOUS SUBSTANCES

- ENVIRONMENTAL NOTES

  1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.

  2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND

WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE,

- CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS
- SUBJECT TO EROSION.
  CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMEN CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.

  CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED
- LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT PENLES, STRAY BALE SEDIMENT BARRIERS, AND CHECK DAMS.
  RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER

BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL



PORTLAND, OR 97220

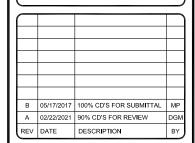


COSTA MESA, CA 92626



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T-MOBILE SITE ID: PO01625E SITE NAME: WOODLAND DOWNTOWN ADDRESS: 271 NORTH PEKIN ROAD, WOODLAND, WA 98674 SITE TYPE: MONOPOLE SBA SITE ID: WA48195-A

SHEET TITLE

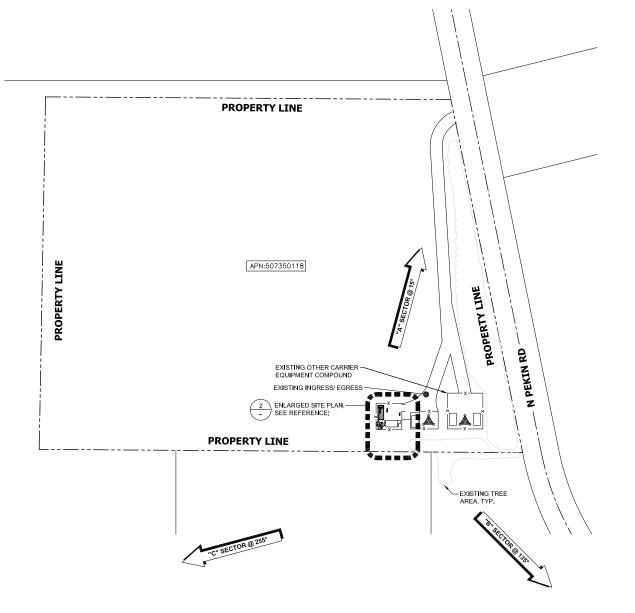
**GENERAL NOTES** 

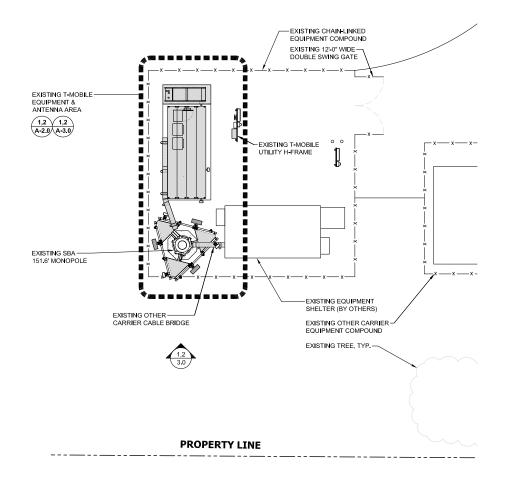
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- THE WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.
- NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE NEW INSTALLATION.
- 3. THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY, ALL PROPERTY LINES, EASEMENTS, SETBACKS, AND EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION.

## DISCLAIMER:

THIS SET OF DRAWINGS WAS PREPARED UTILIZING INFORMATION OBTAINED FROM PUBLIC DOCUMENTS MADE AVAILABLE ON JURISDICTION WEBSITE. M SQUARED WIRELESS CANNOT GUARANTEE THE ACCURACY OF THE DATA AND INFORMATION DEPICTED AND HEREBY EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE TRUTH, VALIDITY, INVALIDITY, ACCURACY, INACCURACY OF ANY SAID DATA AND INFORMATION. THE PARCEL LINES ON MAPS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A SURVEY PRODUCT. USER ACCEPTS RESPONSIBILITY FOR THE UNAUTHORIZED USE OR TRANSMISSION OF ANY SUCH DATA OR INFORMATION IN ITS ACTUAL ANY SUCH DATA OR INFORMATION IN ITS ACTUAL OR ALTERED FORM.







8960 ALDERWOOD ROAD PORTLAND, OR 97220

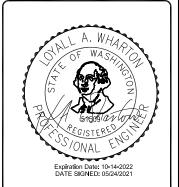




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B 05/17/2017 100% CD'S FOR SUBMITTAL A 02/22/2021 90% CD'S FOR REVIEW REV DATE DESCRIPTION



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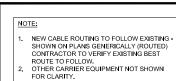
**OVERALL SITE PLAN** 

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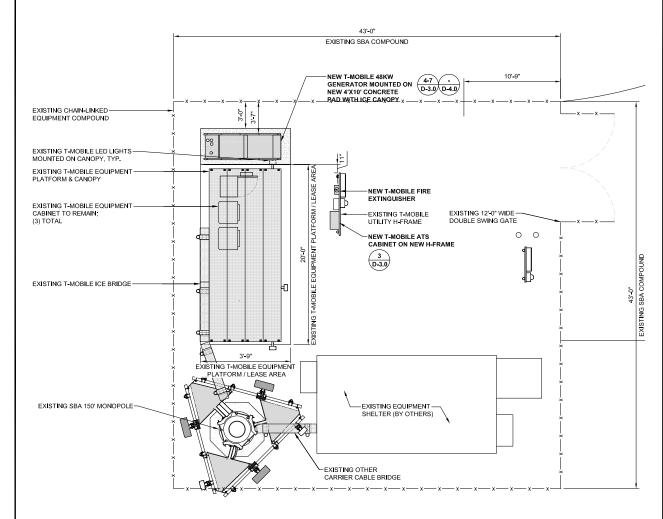
ENLARGED SITE PLAN

24"x36" SCALE: 1" = 10'-0" 11"x17" SCALE: 1" = 20'-0"



- 43'-0" EXISTING SBA COMPOUND EXISTING 12'-0" WIDE-EXISTING T-MOBILE EQUIPMENT EXISTING CHAIN-LINKED EQUIPMENT COMPOUND PLATFORM / LEASE AREA -EXISTING T-MOBILE LED LIGHTS MOUNTED ON CANOPY, TYP. EXISTING T-MOBILE EQUIPMENT PLATFORM & CANOPY EXISTING T-MOBILE EQUIPMENT CABINET TO REMAIN; (3) TOTAL -EXISTING T-MOBILE UTILITY H-FRAME 0 0 EXISTING T-MOBILE ICE BRIDGE EXISTING SBA 150' MONOPOLE-EXISTING EQUIPMENT — SHELTER (BY OTHERS) -EXISTING OTHER CARRIER CABLE BRIDGE

- NEW CABLE ROUTING TO FOLLOW EXISTING -SHOWN ON PLANS GENERICALLY (ROUTED) CONTRACTOR TO VERHY EXISTING BEST ROUTE TO FOLLOW. OTHER CARRIER EQUIPMENT NOT SHOWN FOR CLARITY.



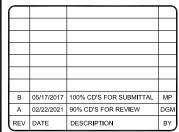


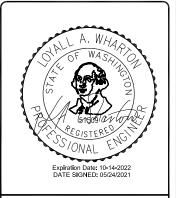




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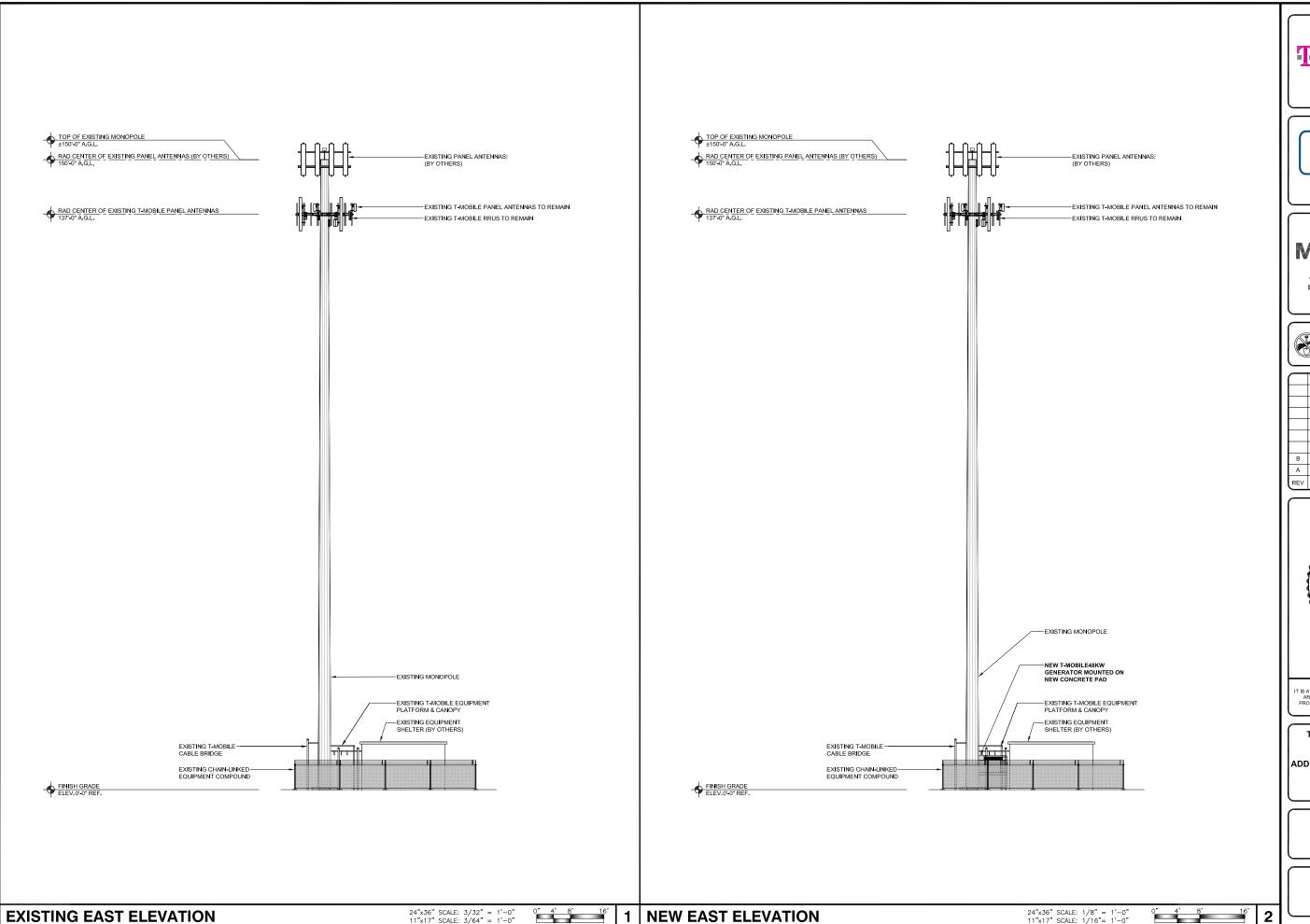
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**EQUIPMENT LAYOUT** 

A-2.0

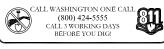








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Α	02/22/2021	90% CD'S FOR REVIEW	DGI		
REV	DATE	DESCRIPTION	BY		



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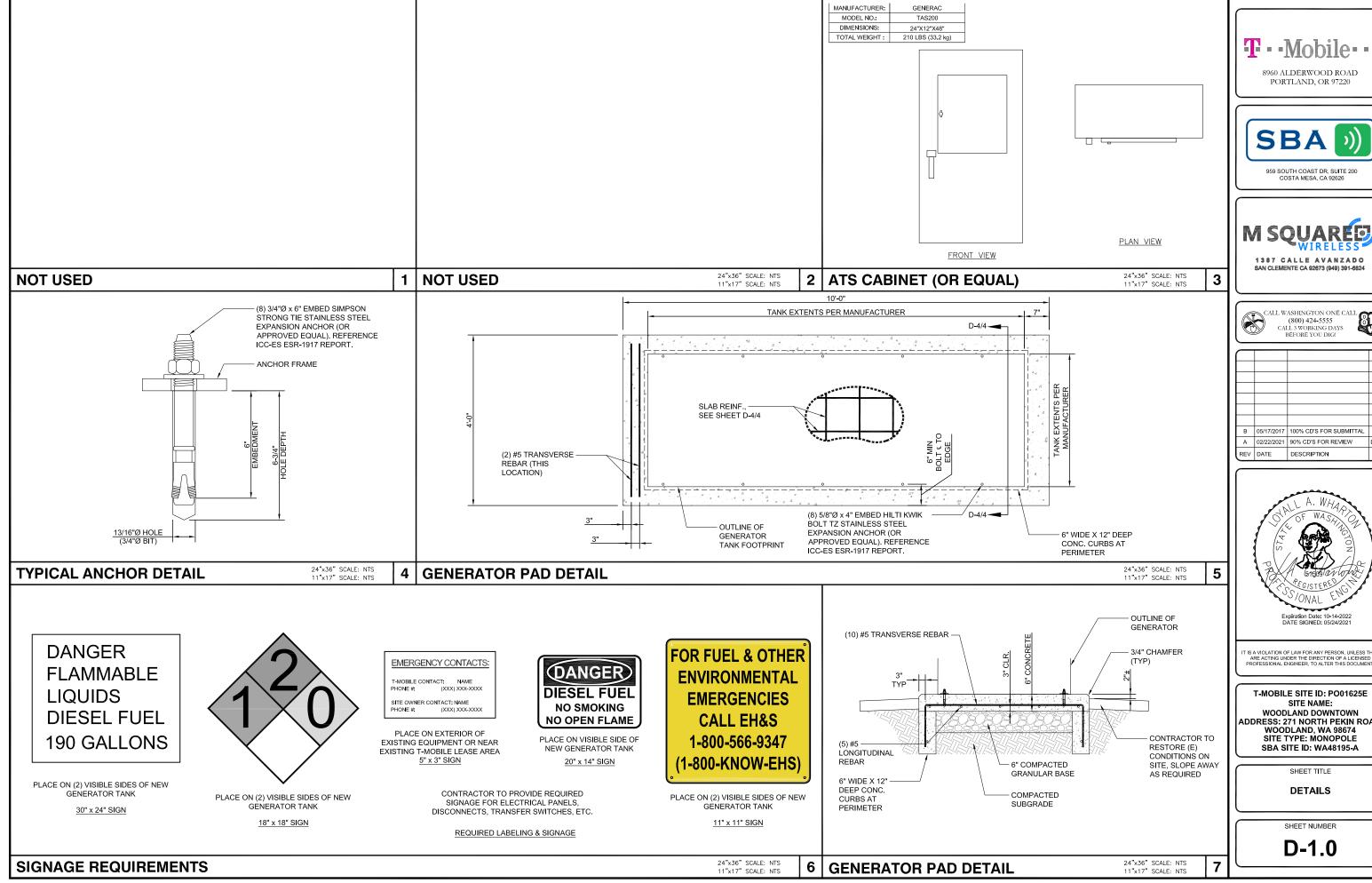
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**ELEVATIONS** 

SHEET NUMBER

A-3.0



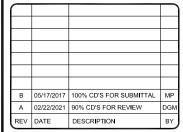
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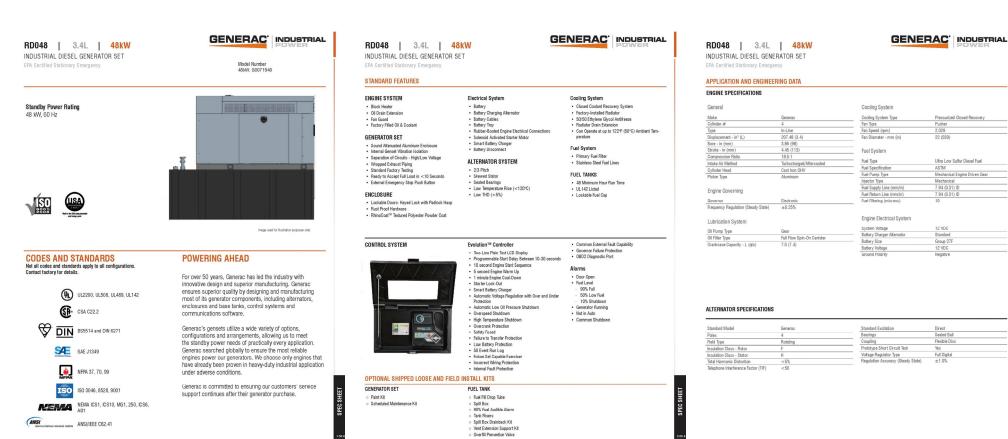


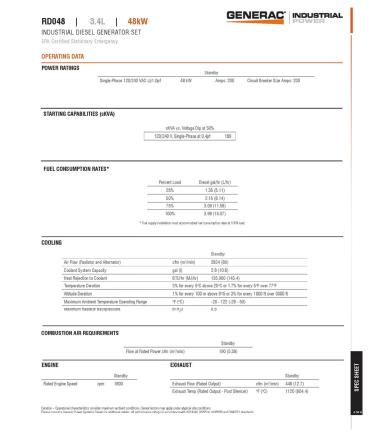


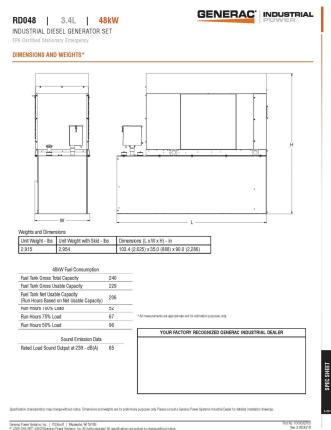
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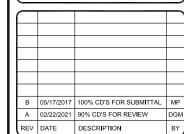


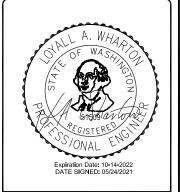




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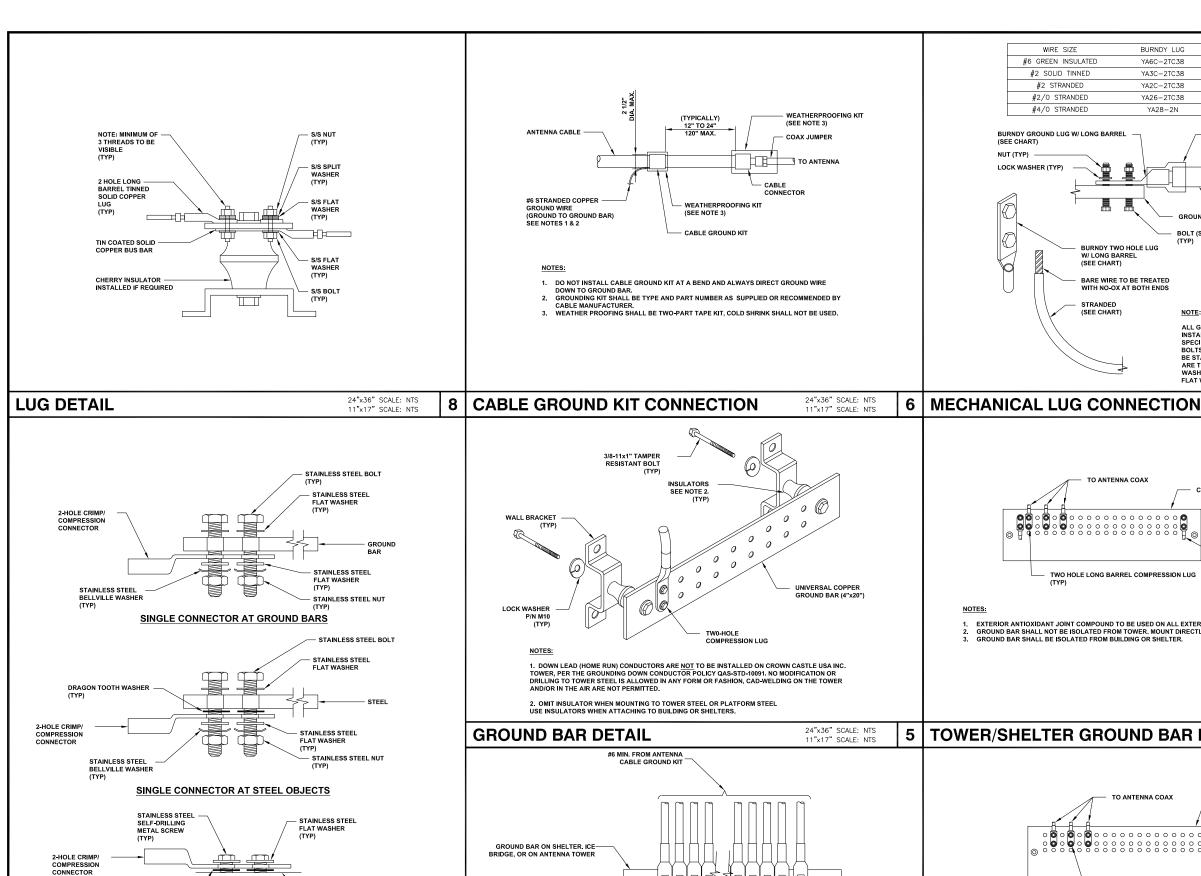
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**DETAILS** 

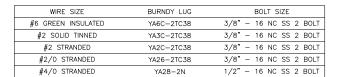
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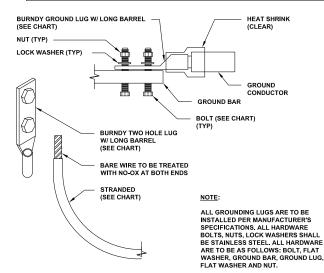
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DRAGON WASHER

SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS





TO ANTENNA COAX

TWO HOLE LONG BARREL COMPRESSION LUG

GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

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

TOWER/SHELTER GROUND BAR DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS







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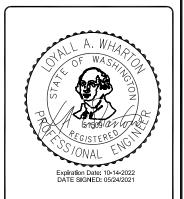
24"x36" SCALE: NTS 11"x17" SCALE: NTS

COPPER/GALVANIZED GROUND BAR

#2 SOLID TINNED COPPER

CONDUCTOR TO TOWER/SHELTER GROUND RING (2 TYP. FOR BOTTOM

100% CD'S FOR SUBMITTAL A 02/22/2021 90% CD'S FOR REVIEW DGM REV DATE DESCRIPTION



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**GROUNDING DETAILS** 

G-1.0

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

TWO HOLE LUG. OR EXOTHERM WELD TO BE USED WITH #2 BARE
CONDUCTOR WIRE TO BUILDING
SERVICE GROUND OR GROUND
RING ELIMINATED WHEN GROUND BAR IS ELECTRICALLY BONDED TO METAL TOWER

TO ANTENNA COAX COPPER/GALVANIZED GROUND BAR TWO HOLE LONG BARREL COMPRESSION LUG (TYP)

24"x36" SCALE: NTS 11"x17" SCALE: NTS 24"x36" SCALE: NTS 11"x17" SCALE: NTS 7 | GROUNDWIRE INSTALLATION 24"x36" SCALE: NTS **EXTERIOR CONNECTIONS DETAILS** 4 ANTENNA GROUND BAR DETAIL