



# RESOLUTION No. 21-108

## OF THE BOARD OF SUPERVISORS OF THE COUNTY OF NEVADA

### RESOLUTION APPROVING AMENDMENT NO. 2 TO THE SITE LEASE AGREEMENT BETWEEN THE COUNTY OF NEVADA AND T-MOBILE WEST, LLC, FOR TOWER RENTAL LOCATED AT 980 HELING WAY IN NEVADA CITY TO INCREASE THE RENTAL SPACE FOR INSTALLATION OF A POWER GENERATOR AND AUTHORIZING THE CHAIR OF THE BOARD OF SUPERVISORS TO EXECUTE THE AMENDMENT

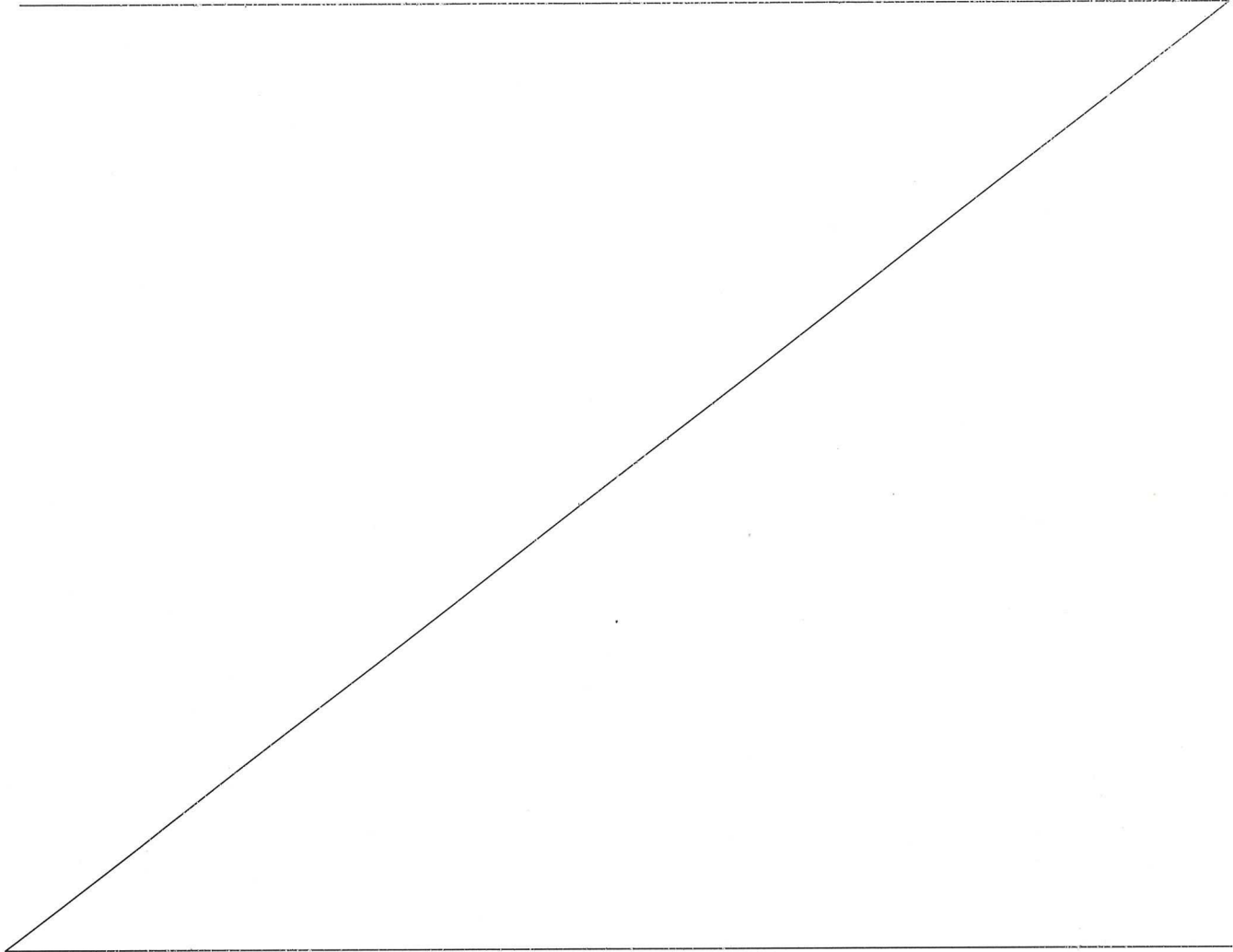
WHEREAS, the County of Nevada and T-Mobile West, LLC, March 22, 2011, through Resolution 11-119, a ten (10) year lease agreement was entered into for the rental of space on the County-owned Telecommunications Tower and Equipment Room located at 980 Helling Way, Nevada City, CA, 95959, APN 05-020-018; and subsequently amended on February 11, 2020 through Resolution 20-040 to provide four (4) additional five (5) year terms; and

WHEREAS, both parties desire to amend their Agreement to increase the rental space for installation of a power generator.

NOW THEREFORE, BE IT RESOLVED that the Nevada County Board of Supervisors hereby directs that:

1. That the Board Chair hereby approves and is authorized to execute on behalf of the County of Nevada Amendment No. 2 to the Lease Agreement "Site Lease with Options" with T-Mobile West, LLC, for the rental of tower and ground space located at 980 Helling Way, Nevada City, CA, 95959, APN 05-020-018 to provide additional space on the premises for the installation of a power generator.
2. Rent will increase by \$400.00 per month for the additional space on the first day of the month following the completion of construction for the modification of the equipment. Additionally, the Insurance provision has been updated.
3. This Amendment shall be effective as of the date of execution by the last party to sign the Amendment.
4. That the Director of Facilities Management is authorized to sign applications and documents related to the installation of the Generator.
5. That in all other respects the terms of the Lease Agreement shall remain the same except as amended herein.

Revenue Account: 0101-10702-415-1000/430200



PASSED AND ADOPTED by the Board of Supervisors of the County of Nevada at a regular meeting of said Board, held on the 13th day of April, 2021, by the following vote of said Board:

Ayes: Supervisors Heidi Hall, Edward Scofield, Dan Miller, Susan K. Hoek and Hardy Bullock.

Noes: None.

Absent: None.

Abstain: None.

ATTEST:

JULIE PATTERSON HUNTER  
Clerk of the Board of Supervisors

By: 

  
Dan Miller, Chair

4/13/2021 cc: Facilities\*  
AC\*  
TMW, LLC

**AMENDMENT NO. 2 TO THE SITE LEASE WITH OPTION (RESO 11-119)**

This Amendment No. 2 to the Site Lease with Option (the "Second Amendment") is effective as of the date of execution by the last party to sign (the "Effective Date"), by and between County of Nevada, a political subdivision of the State of California ("Landlord"), and T-Mobile West LLC, a Delaware limited liability company ("Tenant")(each a "Party", or collectively, the "Parties").

**Recitals**

The parties hereto recite, declare and agree as follows:

A. Landlord and Tenant (or as applicable, their respective predecessors in interest) entered into a Site Lease with Option dated March 22, 2011, as amended by that certain Amendment No.1 dated February 11, 2020 (the "First Amendment") (collectively, the "Lease"), with respect to Premises located at 980 Helling Way, Nevada City, CA 95959 (Nevada County Assessor's Parcel Number 005-020-018) (the "Property").

B. Landlord and Tenant desire to enter into this Second Amendment in order to modify and amend certain provisions of the Lease.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Landlord and Tenant covenant and agree as follows:

1. Landlord hereby grants Tenant the right and consents to Tenant's expansion of the Premises and the installation of a power generator as described and depicted in on Exhibit "B-1", which is attached hereto and by this reference incorporated herein, which equipment shall be considered part of the "Permitted Use" and the "Antenna Facilities" under the Lease.

2. The Parties acknowledge and agree that pursuant to the First Amendment, at the commencement of the First Renewal Term (March 21, 2021), Tenant shall pay Landlord Two Thousand Two Hundred and No/100 Dollars (\$2,200.00) per month ("Rent"). And, pursuant to this Second Amendment, the Rent that Tenant pays Landlord will be increased by Four Hundred and No/100 Dollars (\$400.00) per month as of the first day of the month following the completion of construction for the modification of the additional equipment. Thereafter, Rent shall be payable in accordance with the terms of the Lease.

3. Paragraph 10(a) of the Lease is hereby deleted in its entirety and replaced with the following:

"Tenant shall procure and maintain for the duration of the Lease insurance against claims for injuries to persons or damage to property which may arise from or in connection with Tenant's operations and use for the leased premises. The cost of such insurance shall be borne by the Tenant. Commercial general liability (CGL) coverage shall be at least as broad as Insurance Services Office Form CG 00 01 covering on an "occurrence" basis including products and completed operations, property damage, bodily injury and personal and advertising injury with limits no less than \$1,000,000 per occurrence and \$2,000,000 general aggregate. The Landlord, its officers, officials, and employees are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed or on behalf of the Tenant including materials, parts, or equipment furnished in connection with the such work or operations. General liability coverage can be provided in the form of an endorsement to the Tenant's insurance (at least as broad as ISO Form CG 20 10). For any claims related to this Tenant, the Tenant's insurance coverage shall be primary insurance, with respect to the negligent acts and willful

T-Mobile Site No: SC56222A  
T-Mobile Site Name: SR222 Nevada City  
Market: Sacramento

misconduct of Tenant, at least as broad as ISO CG 20 01 04 13 as respects the Landlord, its officers, officials, and employees. Any insurance or self-insurance maintained by the Landlord, its officers, officials, employees, or volunteers shall be excess of the Tenant's insurance and shall not contribute with it, with respect to the negligent acts and willful misconduct of Tenant. Tenant hereby grants to Landlord a waiver of any right to subrogation which any insurer of said Tenant may acquire against the Landlord by virtue of payment of any loss under such insurance. Tenant agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the Landlord has received a waiver of subrogation endorsement from the insurer. Self-insured retentions must be declared to the Landlord; Tenant shall provide financial guarantee satisfactory to Landlord guaranteeing payment of losses and related investigations, claim administration, and defense expenses; or reduce or eliminate such self-insured retentions. Tenant shall furnish to Landlord original Certificates of Insurance including all required amendatory endorsements (or copies of the applicable policy language effecting coverage required by this clause). However, failure to obtain the required documents prior to the work beginning shall not waive the Tenant's obligations to provide them."

4. Except as expressly set forth in this Second Amendment, the Lease otherwise is unmodified. To the extent any provision contained in this Second Amendment conflicts with the terms of the Lease, the terms and provision of this Second Amendment shall control. Each reference in the Lease to itself shall be deemed also to refer to this Second Amendment.

5. This Second Amendment may be executed in duplicate counterparts, each of which will be deemed an original. Signed electronic copies of this Second Amendment will legally bind the Parties to the same extent as originals.

6. Each of the Parties represents and warrants that it has the right, power, legal capacity and authority to enter into and perform its respective obligations under this Second Amendment. Landlord represents and warrants to Tenant that the consent or approval of a third party has either been obtained or is not required with respect to the execution of this Second Amendment.

IN WITNESS WHEREOF, the parties have executed this Second Amendment on the day and year first written above.

**Landlord:**

County of Nevada, a political subdivision of the State of California

By: *[Signature]*  
 Name: Don Miller  
 Title: Board Chair  
 Date: 4-13-2021

**Tenant:**

T-Mobile West LLC, a Delaware limited liability company

By: *[Signature]*  
 Name: Mauricio Martinez  
 Title: Director Network Eng ; OPS  
 Date: 3/31/2021

T-Mobile Site No: SC56222A  
 T-Mobile Site Name: SR222 Nevada City  
 Market: Sacramento

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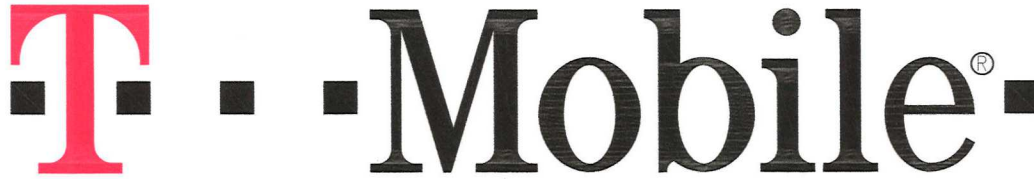
## **EXHIBIT B-1**

Subject to the terms and conditions of this Second Amendment, the location of the Premises (together with access and utilities) is generally described and depicted as shown below or in the immediately following attachment(s):

However, it is expressly agreed and understood by and between the Landlord and Tenant that the exact and precise location of the Tenant's Antenna Facilities are subject to review and approval by the planning and/or zoning Boards having jurisdiction over the "Premises".

Notwithstanding anything to the contrary, the specific number and type of equipment described in the Exhibit is for illustrative purposes only and in no way limits Tenant's ability to alter, replace, add to, expand, enhance, modify, supplement, replace, refurbish, relocate or upgrade any such equipment within the Premises.

See attachment(s).



WEST LLC

# SR222 NEVADA CITY

## SC56222A

### GENERATOR PROJECT

980 HELLING WAY

NEVADA CITY, CA 95959

NEVADA COUNTY

**NOTE:**  
IF, DURING CONSTRUCTION OR UTILITY PLACEMENT, ANY CULTURAL RESOURCES ARE ENCOUNTERED OR SUSPECTED, WORK SHALL BE HALTED IMMEDIATELY AND THE PLANNING DEPARTMENT CONTACTED. A PROFESSIONAL ARCHAEOLOGIST SHALL BE CONSULTED TO ACCESS ANY DISCOVERIES AND DEVELOP APPROPRIATE MANAGEMENT RECOMMENDATIONS FOR ARCHAEOLOGICAL RESOURCE TREATMENT. IF BONES ARE ENCOUNTERED AND APPEAR TO BE HUMAN, THE NEVADA COUNTY CORONER SHALL BE CONTACTED AND, IF NATIVE AMERICAN RESOURCES ARE INVOLVED, NATIVE AMERICAN ORGANIZATIONS AND INDIVIDUALS RECOGNIZED BY THE COUNTY SHALL BE NOTIFIED AND CONSULTED.

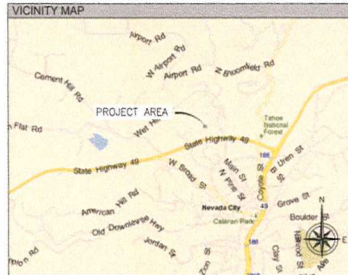
**SITE DIRECTIONS**  
DEPART 1755 CREEKSIDE OAKS DR, SACRAMENTO, CA 95833 ON CREEKSIDE OAKS DR (EAST). TURN RIGHT (NORTH-EAST) ONTO MILLCREEK DR. TURN LEFT (NORTH) ONTO TRUXEL RD. TAKE RAMP (RIGHT) ONTO I-80. AT EXIT 119B, TURN RIGHT ONTO RAMP. TURN LEFT (NORTH) ONTO CA-49. ROAD NAME CHANGES TO CA-20 [CA-49]. TURN LEFT (WEST) ONTO CA-49 [YUBA-DONNER SCENIC BYWAY]. TURN RIGHT (NORTH) ONTO LOCAL ROAD(S). ARRIVE AT THE EXISTING SITE.

**PROJECT DESCRIPTION**  
THE PROJECT CONSISTS OF INSTALLING (1) 200 AMP GENERAC AUTOMATIC TRANSFER SWITCH, (1) GENERAC 25KW DIESEL GENERATOR ON (E) CONCRETE PAD AND ASSOCIATED EQUIPMENT LOCATED WITHIN AN EXISTING CHAIN LINK COMPOUND.  
DEVELOPMENT AND CONSTRUCTION OF THIS PROJECT WILL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.  
THIS PROJECT DOES NOT INCLUDE WATER OR SEWER.  
EXISTING PARKING IS NOT AFFECTED BY THIS PROJECT.

**PROJECT CONTACTS**  
**APPLICANT:**  
T-MOBILE WEST, LLC  
1755 CREEKSIDE OAKS DRIVE  
SUITE 190  
SACRAMENTO, CA 95833  
**PROPERTY OWNER:**  
COUNTY OF NEVADA DEPT OF GEN SERVICES  
12548 LOMA RICE DR  
GRASS VALLEY, CA 95945  
**PROJECT MANAGER:**  
T-MOBILE WEST, LLC  
1755 CREEKSIDE OAKS DRIVE  
SUITE 190  
SACRAMENTO, CA 95833  
CONTACT: JIM MORAN  
PHONE: (707) 450-5653

**PROJECT DATA**  
**ZONING:** S  
**APN:** 05-020-18  
**USE:** -  
**PARENT PARCEL:** - ACRES  
**EXISTING LEASE AREA:** - SQ. FT.  
**JURISDICTION:** NEVADA CITY  
**BUILDING CODES:**  
2019 CALIFORNIA BUILDING CODE CHANGE SUMMARY (PART 2, VOLUMES 1 & 2)  
2019 CALIFORNIA RESIDENTIAL CODE CHANGE SUMMARY (PART 2.3)  
2019 CALIFORNIA ELECTRICAL CODE CHANGE SUMMARY  
2019 CALIFORNIA MECHANICAL CODE CHANGE SUMMARY (PART 4)  
2019 CALIFORNIA PLUMBING CODE CHANGE SUMMARY (PART 5)  
2019 CALIFORNIA ENERGY CODE CHANGE SUMMARY (PART 6)

**GENERAL NOTES**  
1. THIS WIRELESS TELECOMMUNICATIONS FACILITY WILL MEET THE HEALTH AND SAFETY STANDARDS FOR ELECTROMAGNETIC FIELD EMISSIONS AS ESTABLISHED BY THE FEDERAL COMMUNICATIONS COMMISSION OR ANY SUCCESSOR THEREOF, AND ANY OTHER FEDERAL OR STATE AGENCY.  
2. THIS WIRELESS TELECOMMUNICATIONS FACILITY WILL MEET THE REGULATIONS OF THE FEDERAL COMMUNICATIONS COMMISSION REGARDING PHYSICAL AND ELECTROMAGNETIC INTERFERENCE.  
3. LIGHTING OR SIGNS WILL BE PROVIDED ONLY AS REQUIRED BY FEDERAL OR STATE AGENCIES.



**SHEET INDEX**

- T-1 PROJECT INFORMATION AND DATA
- GN-1 GENERAL NOTES
- A-1 SITE PLAN
- A-2 ENLARGED SITE PLAN
- A-3 ELEVATIONS
- A-4 DETAILS
- A-5 GENERATOR SIGNAGE
- E-1 ELECTRICAL DETAILS
- E-2 GROUNDING DETAILS
- E-3 ELECTRICAL DETAILS

**SITE ACQUISITION:**  
T-MOBILE WEST, LLC  
1755 CREEKSIDE OAKS DRIVE  
SUITE 190  
SACRAMENTO, CA 95833  
CONTACT: JEFF LIENERT  
PHONE: (916) 505-3683  
**CONSULTING FIRM:**  
SINGLE SOURCE, INC.  
22972 S. 193 STREET  
QUEEN CREEK, AZ 85142  
CONTACT: JEREMY WATERBERG  
PHONE: (602) 910-6030

**POLE COORDINATES**  
LATITUDE: 39° 16' 12.2694" NORTH (NAD83)  
LONGITUDE: -121° 01' 23.2104" WEST (NAD83)

**APPROVALS**

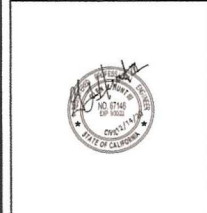
T-MOBILE (RF): \_\_\_\_\_ DATE: \_\_\_\_\_  
T-MOBILE (CONST.): \_\_\_\_\_ DATE: \_\_\_\_\_  
T-MOBILE (RE): \_\_\_\_\_ DATE: \_\_\_\_\_  
LANDLORD: \_\_\_\_\_ DATE: \_\_\_\_\_

PREPARED FOR:  
**T-Mobile**  
WEST LLC  
1755 CREEKSIDE OAKS DRIVE  
SUITE 190  
SACRAMENTO, CA 95833

CONSULTING FIRM:  
**SINGLE SOURCE**  
22972 SOUTH 193 STREET,  
QUEEN CREEK AZ 85142  
PHONE: 602-910-6030 FAX: 480-279-1271

PROJECT NO: 0000  
DRAWN BY: CH  
CHECKED BY: CH

REV	DATE	DESCRIPTION
0	12/14/20	ISSUE FOR SUBMITTAL
A	4/04/20	ISSUE FOR REVIEW



**SR222 NEVADA CITY**  
**SC56222A**  
980 HELLING WAY  
NEVADA CITY, CA 95959  
NEVADA COUNTY

SHEET TITLE  
**PROJECT INFORMATION AND DATA**

SHEET NUMBER  
**T-1**

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
SUBCONTRACTOR - GENERAL CONTRACTOR (CONTRACTOR)
OWNER - T-MOBILE
VEH - ORIGINAL EQUIPMENT MANUFACTURE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. 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 LOCAL ORDERS OF ANY PUBLIC AGENCY 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.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. DELETED.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES. GROUNDING CABLES AS SHOWN ON THE DRAWINGS, INCLUDING AND TIELO DOWN BRANNING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR. ROUTING OF TRENCHING SHALL BE APPROVED BY OWNER.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OFF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI 301).
14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED/ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 25741-000-34P5-4002-0000, "GENERAL CONSTRUCTION SERVICES".
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT INTERRUPT THE EXISTING FACILITY. ANCHORS SHALL BE HELD OR EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER HOURS.
19. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

CONCRETE AND REINFORCING STEEL NOTES:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 308, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH ..... 3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER ..... 2 IN.
#5 AND SMALLER & W/F ..... 1-1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL ..... 3/4 IN.
COLUMNS ..... 1-1/2 IN. IN BEAMS AND CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
5. POST INSTALLED ANCHORS SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION 305-118-00213 "SELECTION, DESIGN, INSTALLATION, INSPECTION AND TESTING OF ADHESIVE AND MECHANICAL ANCHORS FOR WIRELESS SITE FACILITIES". ANCHORS SHALL BE HELD OR APPROVED EQUAL. INSTALLED, INSPECTED AND TESTED AS SHOWN ON THE DESIGN DRAWINGS. NO REINFORCING STEEL SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL.
6. CONCRETE CYLINDER TEST IS NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (BC 1905.6.2) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER:
(A) RESULTS OF CONCRETE CYLINDER TESTS PERFORMED AT THE SUPPLIER'S PLANT.
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
FOR GREATER THAN 50 CUBIC YARDS THE CC SHALL PERFORM THE CONCRETE CYLINDER TEST, TAKING THREE CYLINDERS FROM EACH TRUCK.

GROUNDING NOTES:

- 1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM AS DESCRIBED AND INSTALLED FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LFN, OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELECOM AND TIA/ETSI STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR LIGHTNING PROTECTION TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER (ECS)) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONNECTIONS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM EEFY FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1108 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NECESSARY TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH 25471-000-34P5-4002-0001, DESIGN & TESTING OF FACILITY GROUNDING FOR CELL SITES.
4. METAL PAVEMENT 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 CONDUITS TO THIS EQUIPMENT.
5. EACH BVS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BITS, 2 AND STRANDED COPPER FOR OUTDOOR BITS.
6. DIODEMATIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTI-OXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE MONOPOLE GROUND BAR.
9. ALUMINUM CONDUIT OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CABLE RATED FOR 90 °C (WET AND DRY) OPERATIONAL. LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MAKE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY THE CONDUIT CLAMP.
12. 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 METAL SUPPORT CUPS 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 CONDUIT SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
13. ALL MONOPOLE GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222-FOR MONOPOLES BEING BUILT TO REV G OF THE STANDARD, THE WIRE SIZE OF THE BURRED GROUND RING AND CONNECTIONS BETWEEN THE MONOPOLE AND THE BURRED GROUND RING SHALL BE CHANGED FROM 2 AWG TO 2 1/2 AWG. IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RING SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE DECONTAMINATED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO: A) FALL PROTECTION BY CONFINED SPACE (C) ELECTRICAL SAFETY (D) TRENCHING & EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBER STAMPS, DEBRIS, STOPS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OFF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE VERIZON WIRELESS SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BITS EQUIPMENT AND MONOPOLE AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SOIL GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE MONOPOLE, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL JURISDICTION'S GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

ELECTRICAL INSTALLATION NOTES:

- 1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TIA/ETSI.
2. SUBCONTRACTOR SHALL NOTIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW BITS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TIA/ETSI.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND), 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL. THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOT) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND), 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL. PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRAND/CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS.
9. ALL THE WRAPS WHERE PERMITTED SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES. USE LOW PROFILES TO WRAPS.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (12 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATIONAL. LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (12 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATIONAL. LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR 2 AWG SOLID TINNED COPPER CABLE UNLESS OTHERWISE SPECIFIED.
13. POWER WIRING NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE T CABLE (12 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATIONAL, WITH OUTER JACKET, LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRAMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATOR AT NO LESS THAN 75°C (175°F IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR EXCAVED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
24. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO DRIP OPEN DOWNWARD; SHALL BE PAINTED TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND FILL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. METAL RECEPTACLE SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING. SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

- 1. EQUIPMENT AS REQUIRED TO REMOVE VEGETATION & TOPSOIL, DISPOSE UNCONTAMINATED NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
2a. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
2b. AS AN ALTERNATIVE TO ITEM 2a, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
2c. AS AN ALTERNATIVE TO ITEM 2b AND 2c, PROSIFT THE SUBGRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS ROMAG BPR 30/28) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS ROMAG BR 502). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-SHARED GRANULAR FILL, AND COMPACTED AS STATED ABOVE.
3. COMPACTED SUBGRADE SHALL BE UNIFORM & LEVELLED, PROVIDE 4" MINIMUM CRUSHED STONE OR GRAVEL CONDUIT IN 3' LITS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.

COMPACTION EQUIPMENT:

HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

SYMBOLS

- S/G SOLID GROUND BUS BAR
S/N SOLID NEUTRAL BUS BAR
SUPPLEMENTAL GROUND BAR
2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
CHEMICAL GROUND ROD
GROUND ROD
DISCONNECT SWITCH
METER
CADWELD TYPE CONNECTION
COMPRESSION TYPE CONNECTION
GROUNDING WIRE

ABBREVIATIONS

- AGL ABOVE GRADE LEVEL
BTS BASE TRANSCEIVER STATION
(E) EXISTING
NEW NEW
MIN MINIMUM
N.T.S. NOT TO SCALE
REF REFERENCE
RF RADIO FREQUENCY
TYP TYPICAL
REQ REQUIRED
EGR EQUIPMENT GROUND RING
AWG AMERICAN WIRE GAUGE
CRGB MASTER GROUND BAR (MASTER GROUND BAR)
EQ EQUIPMENT GROUND
BCW BARE COPPER WIRE
SIAD SMART INTEGRATED ACCESS DEVICE
GEN GENERATOR
IGR INTERIOR GROUND RING (HALO)
RBS RADIO BASE STATION

SYMBOLS & ABBREVIATIONS

PREPARED FOR:



1755 CREEDCREEK CAVIS DRIVE, SUITE 190 SACRAMENTO, CA 95833

CONSULTING FIRM



22972 SOUTH 193 STREET, QUEEN CREEK AZ 85142. PHONE: 602-910-6030 FAX: 480-279-1271

Table with columns for PROJECT NO, DRAWN BY, CHECKED BY, and values 0000, CH, CH.

Table with columns for dates and descriptions: D 12/14/20 ISSUE FOR SUBMITAL, A 4/04/20 ISSUE FOR REVIEW, REV DATE DESCRIPTION.



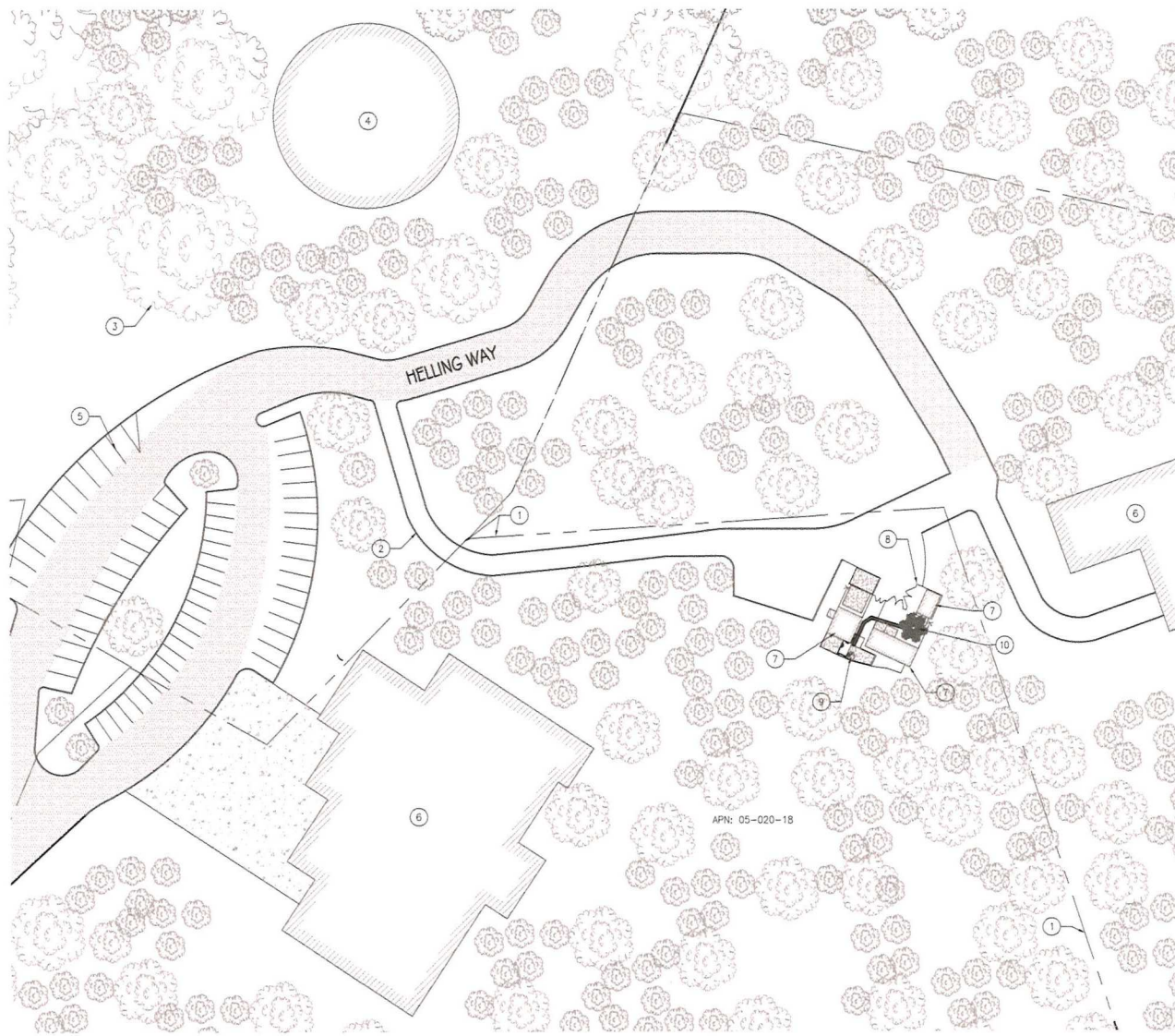
SR222 NEVADA CITY SC56222A 980 HELLING WAY NEVADA CITY, CA 95969 NEVADA COUNTY

SHEET TITLE GENERAL NOTES

SHEET NUMBER GN-1

SITE PLAN KEY NOTES:

- 1. (E) PROPERTY LINE
- 2. (E) ACCESS ROAD
- 3. (E) TREE
- 4. (E) WATER TANK
- 5. (E) PARKING LOT
- 6. (E) BUILDING
- 7. (E) EQUIPMENT SHELTER (OTHERS)
- 8. (E) CHAIN LINK FENCE
- 9. (E) T-MOBILE EQUIPMENT CABINET
- 10. (E) MONOPINE



SITE PLAN

24"x36" SCALE: 1" = 30'-0"  
11"x17" SCALE: 1" = 60'-0"



PREPARED FOR:



1755 CREEKSIDE OAKS DRIVE  
SUITE 190  
SACRAMENTO, CA 95833

CONSULTING FIRM



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QUEEN CREEK AZ 85142  
PHONE: 602-910-6030 FAX: 480-279-1271

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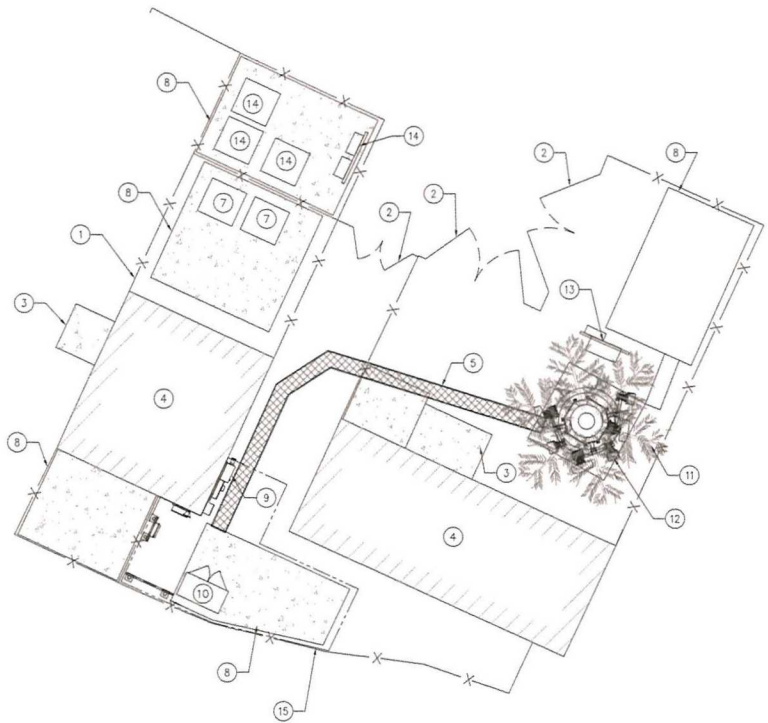
SHEET TITLE  
SITE PLAN

SHEET NUMBER  
A-1



**SITE PLAN KEY NOTES:**

- 1 (E) CHAIN LINK FENCE
- 2 (E) ACCESS GATE
- 3 (E) CONCRETE STOOP
- 4 (E) EQUIPMENT SHELTER (OTHERS)
- 5 (E) ICE BRIDGE
- 6 (E) UTILITY H-FRAME
- 7 (E) EQUIPMENT (OTHERS)
- 8 (E) CONCRETE PAD
- 9 (E) T-MOBILE PPC CABINET AND METER
- 10 (E) T-MOBILE EQUIPMENT CABINET
- 11 (E) MONOPINE
- 12 (E) ANTENNAS
- 13 (E) H-FRAME GC TO REMOVE (E) TELCO BOX
- 14 (E) EQUIPMENT CABINET TO BE REMOVED
- 15 (E) T-MOBILE LEASE AREA



EXISTING ENLARGED SITE PLAN

24"x36" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"

**SITE PLAN KEY NOTES:**

- 1 (E) CHAIN LINK FENCE
- 2 (E) ACCESS GATE
- 3 (E) CONCRETE STOOP
- 4 (E) EQUIPMENT SHELTER (OTHERS)
- 5 (E) ICE BRIDGE
- 6 (E) UTILITY H-FRAME
- 7 (E) EQUIPMENT (OTHERS)
- 8 (E) CONCRETE PAD
- 9 (E) T-MOBILE PPC CABINET AND METER
- 10 (E) T-MOBILE EQUIPMENT CABINET
- 11 (E) MONOPINE
- 12 (E) ANTENNAS
- 13 (E) H-FRAME
- 14 (N) GENERAC 200 AMP AUTOMATIC TRANSFER SWITCH MOUNTED ON (E) H-FRAME
- 15 (N) POWER CONDUIT
- 16 (N) GENERAC 25KW DIESEL GENERATOR MOUNTED ON (E) CONCRETE PAD
- 17 (E) T-MOBILE LEASE AREA
- 18 (N) T-MOBILE LEASE AREA



PROPOSED ENLARGED SITE PLAN

24"x36" SCALE: 1/4" = 1'-0"  
11"x17" SCALE: 1/8" = 1'-0"

PREPARED FOR:

**T-Mobile**  
WEST LLC

1755 CREEKSIDE OAKS DRIVE  
SUITE 190  
SACRAMENTO, CA 95833

CONSULTING FIRM

**SINGLE SOURCE**

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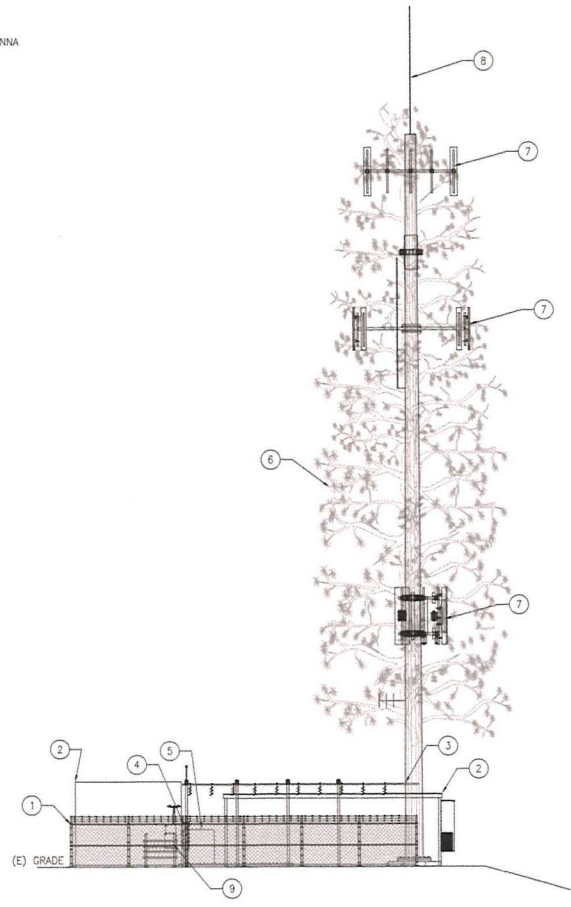
**SR222 NEVADA CITY**  
**SC56222A**  
980 HELLING WAY  
NEVADA CITY, CA 95959  
NEVADA COUNTY

SHEET TITLE  
**ENLARGED SITE PLAN**

SHEET NUMBER  
**A-2**

SITE PLAN KEY NOTES:

- 1 (E) CHAIN LINK FENCE
- 2 (E) EQUIPMENT SHELTER (OTHERS)
- 3 (E) ICE BRIDGE
- 4 (E) T-MOBILE PPC CABINET AND METER
- 5 (E) T-MOBILE EQUIPMENT CABINET
- 6 (E) MONOPINE
- 7 (E) ANTENNAS
- 8 (E) OMNI ANTENNA
- 9 (E) H-FRAME GC TO REMOVE (E) TELCO BOX



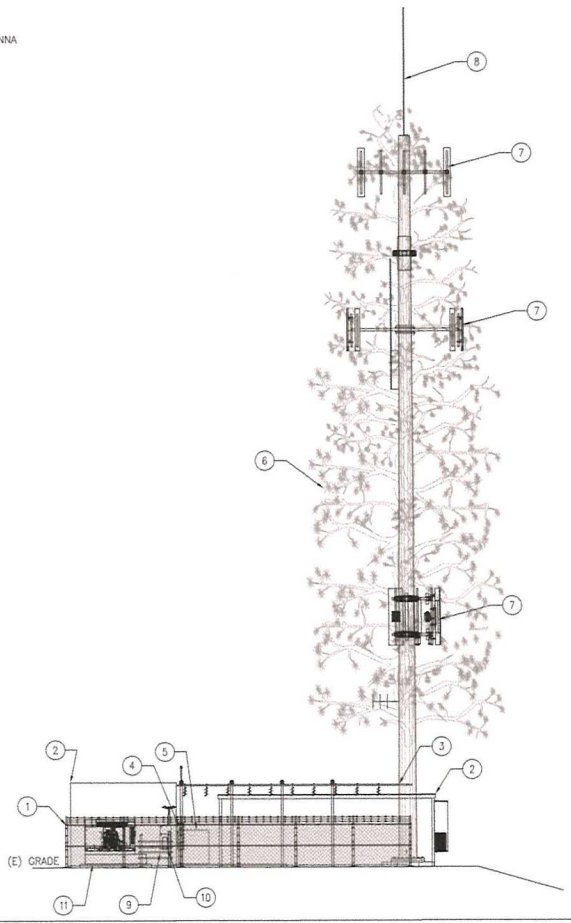
EXISTING SOUTHEAST ELEVATION

24"x36" SCALE: 1/8" = 1'-0"  
11"x17" SCALE: 1/16" = 1'-0"



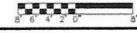
SITE PLAN KEY NOTES:

- 1 (E) CHAIN LINK FENCE
- 2 (E) EQUIPMENT SHELTER (OTHERS)
- 3 (E) ICE BRIDGE
- 4 (E) T-MOBILE PPC CABINET AND METER
- 5 (E) T-MOBILE EQUIPMENT CABINET
- 6 (E) MONOPINE
- 7 (E) ANTENNAS
- 8 (E) OMNI ANTENNA
- 9 (E) H-FRAME
- 10 (N) GENERAC 200 AMP AUTOMATIC TRANSFER SWITCH MOUNTED ON (E) H-FRAME (BEYOND)
- 11 (N) GENERAC 25KW DIESEL GENERATOR MOUNTED ON (E) CONCRETE PAD (BEYOND)



1 PROPOSED SOUTHEAST ELEVATION

24"x36" SCALE: 1/8" = 1'-0"  
11"x17" SCALE: 1/16" = 1'-0"



PREPARED FOR:

**T-Mobile**  
WEST LLC

1755 CREEKSIDE OAKS DRIVE  
SUITE 190  
SACRAMENTO, CA 95833

CONSULTING FIRM

**SINGLE SOURCE**

22972 SOUTH 193 STREET,  
QUEEN CREEK AZ 85142  
PHONE: 602-910-6030 FAX: 480-279-1271

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NEVADA COUNTY

SHEET TITLE  
ELEVATIONS

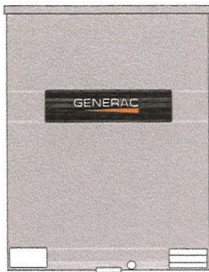
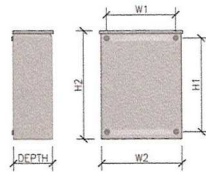
SHEET NUMBER  
A-3

**SPECIFICATIONS**

MODEL	RX5C200A3
AMPS	200
VOLTAGE	120/240, 1Ø
LOAD TRANSITION TYPE (AUTOMATIC)	OPEN TRANSITION
ENCLOSURE TYPE	NEMA/UL 3R
UL RATING	UL/CUL

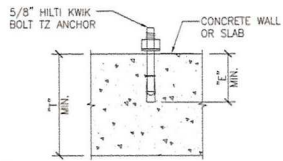
**DIMENSIONS**

MODEL	RX5C200A3
HEIGHT (IN./MM)	H1 17.24/437.9
	H2 20/508
WIDTH (IN./MM)	W1 12.5/317.5
	W2 14.6/370.8
DEPTH (IN./MM)	7.09/180.1
WEIGHT (LBS./KILOS)	20/9.07



GENERAC 200 AMP AUTOMATIC TRANSFER SWITCH

SCALE: 2  
NTS



ANCHOR SCHEDULE							
BOLT DIAMETER	3/8"	1/2"	5/8"	3/4"			
BIT DIAMETER	3/8"	1/2"	5/8"	3/4"			
MIN. EMBEDMENT DEPTH	2"	2"	3-1/4"	3-1/8"	4"	3-3/4"	4-3/4"
MIN. THICKNESS	4"	5"	4"	6"	5"	4"	8"
MIN. EDGE DISTANCE	2-1/2"	2-7/8"	3-1/4"	2-3/8"	4-1/4"	4"	
PULLOUT STRENGTH CRACKED CONCRETE	2,340 LBS	N/A	3,180 LBS	N/A	5,840 LBS	8,110 LBS	N/A

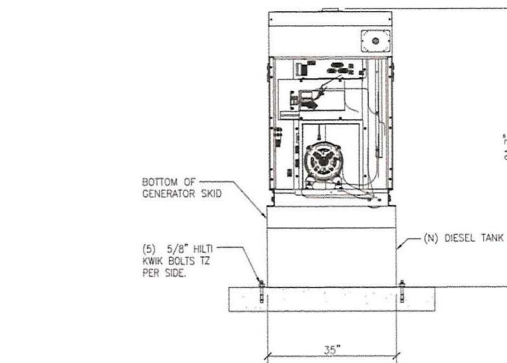
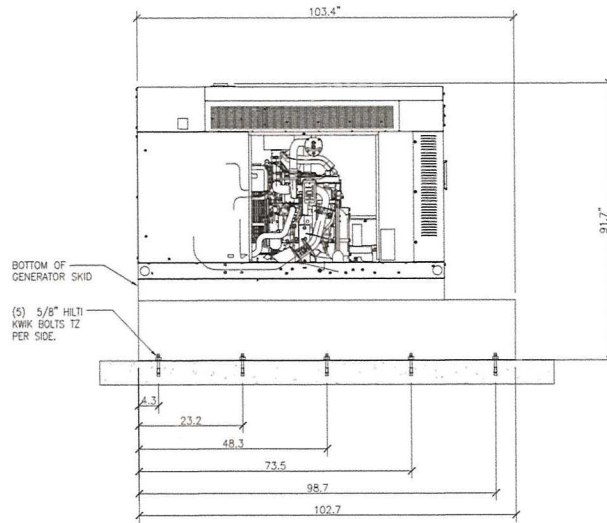
ANCHOR SCHEDULE NOTE:  
INFORMATION SHOWN IN THIS TABLE IS IN ACCORDANCE WITH: ICC REPORT ESR-1917

**NOTES:**

- SUBSTITUTION OF A HILTI KWIK BOLT TZ ANCHOR WITH OTHER EXPANSION ANCHORS MANUFACTURED BY HILTI OR BY OTHER MANUFACTURERS IS NOT ALLOWED WITHOUT THE WRITTEN APPROVAL OF THIS ENGINEERING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPLACEMENT OF NON-APPROVED ANCHORS.
- THE CONTRACTOR SHALL ACCURATELY LOCATE ALL EXISTING REINFORCING BY X-RAY OR EQUIVALENT METHOD. NO REBAR OR TENDONS SHALL BE CUT. ALL EXPENSES RELATED TO REPAIR OF CUT REBAR OR TENDONS SHALL BE ENTIRELY AT THE EXPENSE OF THE CONTRACTOR.
- SPECIAL INSPECTION IS REQUIRED FOR INSTALLATION OF ANCHORS.
- INSTALLATION OF CONCRETE ANCHORS IN MASONRY IS NOT ALLOWED.
- USE STAINLESS STEEL FOR EXPOSED APPLICATIONS.
- NORMAL-WEIGHT AND SAND-WEIGHT CONCRETE MUST CONFORM TO SECTIONS 1903 AND 1905 OF THE IBC.

HILTI KWIK BOLT TZ ANCHOR

SCALE: 3  
NTS



LEVEL 2 SOUND ATTENUATION ENCLOSURE  
 RUN TIME HOURS: 98  
 USABLE CAPACITY GAL: 240  
 L X W X H: 103.4 X 35 X 91.7  
 WEIGHT lbs (with skid): 2,161  
 SOUND LEVEL: 65 dBA

GENERAC 25KW DIESEL GENERATOR

SCALE: 1  
NTS

PREPARED FOR:  
**T-Mobile**  
 WEST LLC  
 1755 CREEKSIDE OAKS DRIVE  
 SUITE 190  
 SACRAMENTO, CA 95833

CONSULTING FIRM  
**SINGLE SOURCE**  
 22972 SOUTH 193 STREET,  
 QUEEN CREEK AZ 85142  
 PHONE: 602-910-6030 FAX: 480-279-1271

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**SR222 NEVADA CITY**  
**SC56222A**  
 980 HELLING WAY  
 NEVADA CITY, CA 95959  
 NEVADA COUNTY

SHEET TITLE  
**DETAILS**

SHEET NUMBER  
**A-4**

- ALL SIGNS SHALL BE UV-RESISTANT FOR OUTDOOR USE.
- ALL SIGNS SHALL HAVE A MINIMUM 5-YEAR GUARANTEE WITHOUT SHOWING ANY SIGNS OF FADING OR DEGRADATION.
- ALL SIGNS SHALL HAVE ROUNDED CORNERS WITH PRE-DRILLED HOLES AND WEATHER PROOF PRESSURE SENSITIVE ADHESIVE BACKING FOR MOUNTING.
- ALL SIGNS SHALL BE PROVIDED PER THEIR SPECIFIC REQUIREMENTS, UNLESS OTHERWISE SPECIFIED DUE TO SIZE RESTRAINTS OR LANDLORD DEMANDS.

GENERAL SIGNAGE NOTES

**NO SMOKING  
OR OPEN  
FLAMES WITHIN  
25 FEET**

SIGN REQUIREMENTS:  
MATERIAL- 8 1/2"x11" 60MIL THICK WHITE PLASTIC.  
COLOR AND LETTERING- PER OSHA 1910.145; REGULATIONS OF ACCIDENT PREVENTION SIGNS AND TAGS.  
MOUNTING - VERIFY MOUNTING LOCATION WITH LOCAL FIRE INSPECTOR

DANGER SIGNAGE

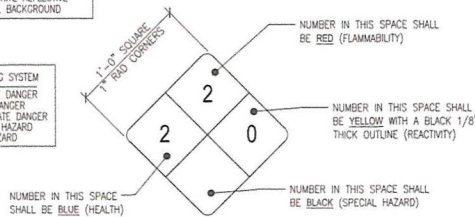
SPECIFICATIONS:

- FONT STYLE USED:  
NUMBERS-HELVETICA BOLD EXTENDED  
LETTERS-HELVETICA BLACK BT
- NUMBERS SHALL BE A MINIMUM OF 3-1/2" HIGH WITH 11/16" STROKE WIDTH
- LETTERING FOR WHITE SPECIAL HAZARD BOX:  
ONE LINE: 1-3/4" HIGH WITH 9/16" STROKE WIDTH  
TWO LINES: 1-3/8" HIGH WITH 7/16" STROKE WIDTH  
THREE LINES: 1-1/4" HIGH WITH 3/8" STROKE WIDTH
- NUMBERS AND LETTERS ARRANGED BY COLOR AS SHOWN ABOVE.
- SIGN SHALL BE POSTED AT LOCATION APPROVED BY THE CITY'S FIRE DEPARTMENT

TANK SIGNAGE SPECIFICATIONS

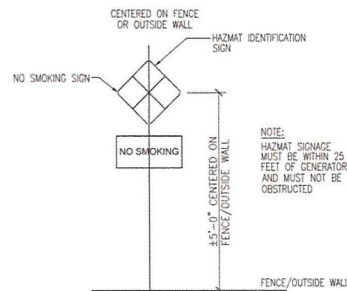
SIGN MATERIAL:  
.080" THICK ALUMINUM SHEET  
WITH WHITE REFLECTIVE  
VINYL BACKGROUND

NUMBERING SYSTEM  
4-SEVERE DANGER  
3-HIGH DANGER  
2-MODERATE DANGER  
1-SLIGHT HAZARD  
0-NO HAZARD



HAZMAT IDENTIFICATION SIGN CONFIGURED FOR FUEL OIL #1 (CAS 068334-30-5) (TYPICAL FOR DIESEL GENERATORS)  
CONTRACTOR TO PROVIDE SIGN PER T-MOBILE STANDARDS

TANK SIGNAGE



NOTE:  
HAZMAT SIGNAGE MUST BE WITHIN 25 FEET OF GENERATOR AND MUST NOT BE OBSTRUCTED.

HAZMAT SIGNAGE

PREPARED FOR:

**T-Mobile**  
WEST LLC

1755 CREEKSIDE OAKS DRIVE  
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**SINGLE SOURCE**

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QUEEN CREEK AZ 85142  
PHONE: 602-910-6030 FAX: 480-279-1271

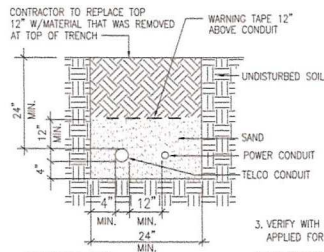
PROJECT NO: 0000  
DRAWN BY: CH  
CHECKED BY: GH

REV	DATE	DESCRIPTION
0	12/14/20	ISSUE FOR SUBMITTAL
A	4/04/20	ISSUE FOR REVIEW

**SR222 NEVADA CITY**  
**SC56222A**  
880 HELLING WAY  
NEVADA CITY, CA 95959  
NEVADA COUNTY

SHEET TITLE  
**GENERATOR SIGNAGE**

SHEET NUMBER  
**A-5**



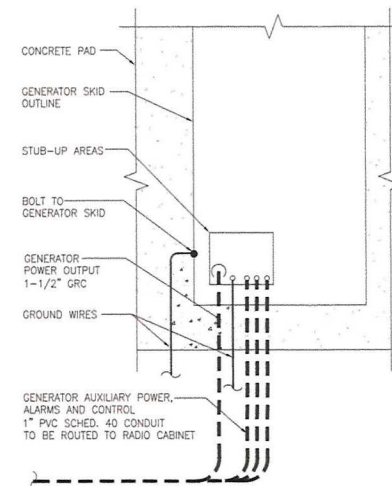
3. VERIFY WITH UTILITY THAT NEW SERVICE HAS BEEN APPLIED FOR.
4. ANY DAMAGE CAUSED TO THE EXISTING UNDERGROUND SERVICES OR SYSTEMS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
5. EXCAVATE TO REQUIRED DEPTH.
6. RESTORE GRADE TO ORIGINAL CONDITION COMPACT TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM D-1557.

- CONTRACTOR NOTES:**
1. CONTRACTOR TO VERIFY AREAS CLEARED TO ENSURE THAT NO WATER, SEWER OR UTILITY LINES PRESENT.
  2. CONDUIT SIZE DETERMINED BY UTILITY.

— OHT/OHP — OVERHEAD TELEPHONE/OVERHEAD POWER  
 — UGT/UGP — UNDERGROUND TELEPHONE/UNDERGROUND POWER  
 — G — GROUNDING CONDUCTOR  
 — — CONDUIT UNDERGROUND

- AWG AMERICAN WIRE GAUGE  
 BCW BARE COPPER WIRE  
 DWG DRAWING  
 EMT ELECTRICAL METALLIC TUBING  
 GND GROUND  
 IMC INTERMEDIATE METALLIC CONDUIT  
 MGB MASTER GROUND BAR  
 PVC RIGID (SCH. 40) POLYVINYL CHLORIDE CONDUIT  
 RGS RIGID GALVANIZED STEEL
- COMPRESSION TYPE CONNECTION  
 ● CADWELD TYPE CONNECTION
- FUSE  
 — CIRCUIT BREAKER  
 — GROUNDING WIRE  
 — TRANSFORMER  
 — METER  
 — DISCONNECT SWITCH  
 ⊗ CHEMICAL GROUND ROD  
 ⊙ GROUND ROD  
 ⊙ TEST WELL GROUND ROD

NOTE:  
 GC TO VERIFY STUB UP LOCATIONS WITH GENERATOR SPECS. IF USING EXISTING SLAB GC TO LEAD INTO GENERATOR FOR ALL WIRING CONNECTIONS.



TRENCH DETAIL

SCALE: NONE 4

ABBREVIATIONS & LEGEND

2

1. RUN ELECTRICAL CONDUIT BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND T-MOBILE CELL SITE ELECTRICAL PANEL/PEDESTAL AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPES. COORDINATE INSTALLATION WITH UTILITY COMPANY.
2. RUN TELCO CONDUITS BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND T-MOBILE CELL SITE TELCO SERVICE CABINET AND EQUIPMENT CABINETS AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPES AND TRUE TAPE IN INSTALLED CONDUITS.
3. WHERE CONDUIT BETWEEN MOO-CELL AND T-MOBILE CELL SITE ELECTRICAL PEDESTAL AND BETWEEN MOO-CELL AND T-MOBILE CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND, USE PVC SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE FLEXIBLE CONDUIT.
4. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIRED AND CONSTRUCT TO UTILITY COMPANY PLAN AND SPECIFICATIONS ONLY.
5. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES CABLE PULLBOXES, CONC. ENCASMENT OF CONDUITS (IF REQUIRED), TRANSFORMER PAD (IF REQUIRED), BARRIERS, POLE RISERS, TRENCHING, BACKFILL, AND INCLUDE ANY UTILITY COMPANY REQUIREMENTS IN SCOPE OF WORK.
6. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE NATIONAL ELECTRIC CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
7. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
8. ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPEC'S. INCLUDING INCIDENTAL WORK, TO PROVIDE COMPLETE, OPERATING AND APPROVED ELECTRICAL SYSTEM.
9. CONTRACTOR SHALL PAY ALL FEES FOR PERMITTING, AND BE RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
10. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED. ALL CONDUITS SHALL BE RATED 75° C.
11. SERVICE TO EQUIPMENT CABINETS SHALL BE 120/240 VAC, 200 AMP, 1 PHASE, UNLESS NOTED OTHERWISE.
12. CONNECTIONS TO GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF GROUND BUS ARE PERMITTED.
13. PROVIDE 2 PULL STRINGS SECURELY FASTENED AT EACH END OF ALL CONDUITS. PULL STRINGS ARE TO BE 200 LB. TEST POLYETHYLENE CORD. PROVIDE A CAP ON THE END OF EACH CONDUIT AND MARK AS SHOWN ON THE ENLARGED SITE PLAN.
14. THE TOP OF THE UTILITY METER GROUND ROD SHALL BE 6\"/>

ELECTRICAL GENERAL NOTES

3

CONDUIT ENTRY FOR GENERATOR INSTALLATIONS

1

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 NEVADA CITY, CA 95959  
 NEVADA COUNTY

SHEET TITLE  
 ELECTRICAL  
 DETAILS

SHEET NUMBER  
 E-1

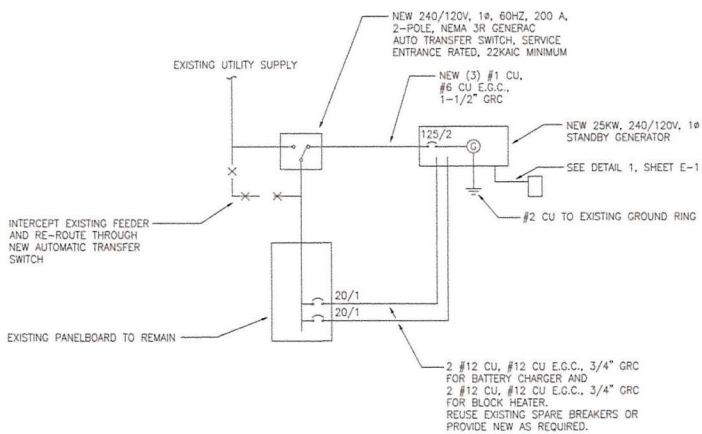
NOTES:

1. SUBCONTRACTOR SHALL FIELD VERIFY, WITHIN THE SCOPE OF WORK, THAT ALL EXISTING CONDUITS, CONDUCTORS, CONDUIT STUB-UPS, AND ELECTRICAL EQUIPMENT/RATINGS ARE INSTALLED PER NEC AND LOCAL AUTHORITIES HAVING JURISDICTION.
2. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY EQUIPMENT MANUFACTURERS.
3. PROVIDE SIGNS AT SERVICE ENTRANCE EQUIPMENT AS REQUIRED BY NEC ARTICLE 702.8 INDICATING SITE HAS ON-SITE AUTOMATIC START STANDBY GENERATOR.
4. THIS SITE IS NOT REQUIRED BY A DETERMINING AGENCY TO BE A LEGALLY REQUIRED SYSTEM.
5. THE PROPOSED STANDBY GENERATOR IS NOT A SEPARATELY-DERIVED POWER SYSTEM.
6. THE GENERATOR SIZE HAS BEEN SPECIFIED BY THE CLIENT. THE CLIENT SHALL BE SOLELY RESPONSIBLE FOR ASSURING THAT THE LOAD APPLIED TO THE GENERATOR IS WITHIN THE GENERATOR'S RATING.
7. THE CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE SERVING UTILITY AND SHALL USE THAT DATA TO CALCULATE THE AVAILABLE FAULT CURRENT AT THE AUTOMATIC TRANSFER SWITCH. THE AUTOMATING TRANSFER SWITCH SHALL BE SUITABLE FOR USE AT THE CALCULATED FAULT CURRENT.

SITE PLAN KEY NOTES:

1. (N) GENERAC 25KW DIESEL GENERATOR GROUND TO GROUND RING (FIELD VERIFY LOCATION)
2. (N) GENERAC 200 AMP AUTOMATIC TRANSFER SWITCH GROUND TO GROUND RING (FIELD VERIFY LOCATION)

NOTE:  
CONTRACTOR TO FIELD VERIFY LOCATION OF (E) EQUIPMENT GROUND RING



STANDBY GENERATOR SINGLE-LINE DIAGRAM



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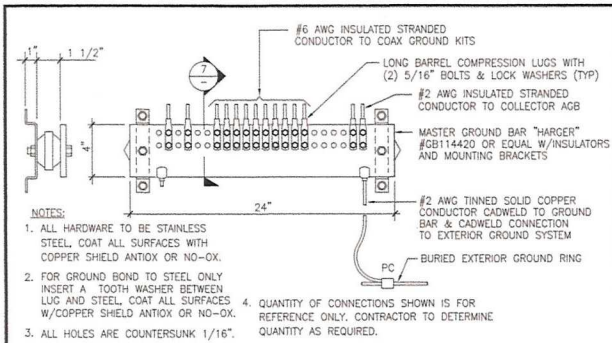
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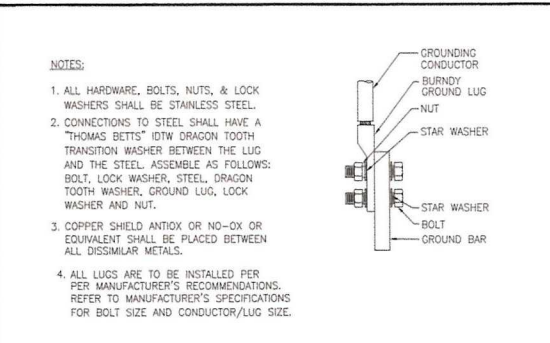
SHEET TITLE  
GROUNDING  
DETAILS

SHEET NUMBER  
E-2



- NOTES:
1. ALL HARDWARE TO BE STAINLESS STEEL. COAT ALL SURFACES WITH COPPER SHIELD ANTIOX OR NO-OX.
  2. FOR GROUND BOND TO STEEL ONLY INSERT A TOOTH WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES W/COPPER SHIELD ANTIOX OR NO-OX.
  3. ALL HOLES ARE COUNTERSUNK 1/16".
  4. QUANTITY OF CONNECTIONS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DETERMINE QUANTITY AS REQUIRED.

MASTER GROUND BUS (MGB) SCALE: NONE 5

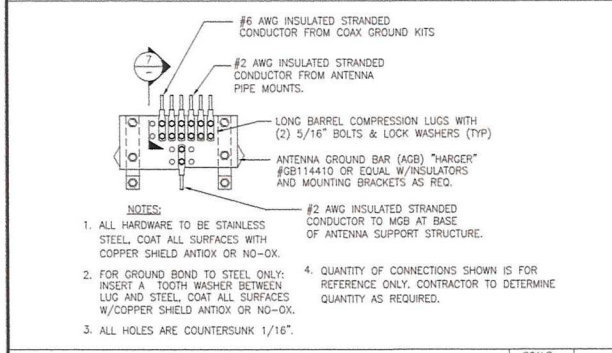


- NOTES:
1. ALL HARDWARE, BOLTS, NUTS, & LOCK WASHERS SHALL BE STAINLESS STEEL.
  2. CONNECTIONS TO STEEL SHALL HAVE A "THOMAS BETTS" IDTW DRAGON TOOTH TRANSITION WASHER BETWEEN THE LUG AND THE STEEL. ASSEMBLE AS FOLLOWS: BOLT, LOCK WASHER, STEEL, DRAGON TOOTH WASHER, GROUND LUG, LOCK WASHER AND NUT.
  3. COPPER SHIELD ANTIOX OR NO-OX OR EQUIVALENT SHALL BE PLACED BETWEEN ALL DISSIMILAR METALS.
  4. ALL LUGS ARE TO BE INSTALLED PER PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR BOLT SIZE AND CONDUCTOR/LUG SIZE.

LUG BAR BOLTING DETAIL SCALE: NONE 2

1. GROUNDING SHALL COMPLY WITH NEC 250.58 (COMMON GROUND)
2. CONTRACTOR TO GROUND COAX CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURER'S GROUNDING KITS SUPPLIED BY T-MOBILE.
3. CONTRACTOR SHALL USE #2 STRANDED COPPER CONDUCTOR WITH GREEN INSULATION FOR ALL ABOVE GROUND GROUNDING (UNLESS NOTED OTHERWISE) AND #2 SOLID TINNED BARE COPPER CONDUCTOR FOR ALL BELOW-GROUND GROUNDING AS INDICATED ON THE GROUNDING DESIGN DRAWINGS.
4. ALL GROUND CONNECTIONS TO BE BURNDY LONG BARREL COMPRESSION TYPE CONNECTORS OR APPROVED EQUAL. CADWELD EXOTHERMIC WELD CONNECTIONS SHALL BE USED WHEN MAIN CONDUCTOR ADJUNS TWO BUSS BARS, UNLESS NOTED OTHERWISE ON DRAWINGS. DO NOT ALLOW BARE COPPER CONDUCTORS TO BE IN CONTACT WITH GALV. STEEL.
5. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. EXCEPT AS NOTED OTHERWISE, GROUND CONDUCTORS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS ALLOW A MINIMUM OF 12" RADIUS BENDS FOR #2 CONDUCTOR AND A MINIMUM OF 6" RADIUS BENDS FOR #6 CONDUCTOR.
6. BOND ANY METAL OBJECTS WITHIN 7 FEET OF NEW METALLIC EQUIPMENT CABINETS. FOR GREATER THAN 7 FEET, GROUND METAL OBJECTS WITH DEDICATED DOWN CONDUCTOR ROUTED DIRECTLY TO GROUND RING. (DAISY CHAIN "SERIES" GROUNDING IS NOT PERMITTED).
7. SYSTEM GROUND RESISTANCE MUST BE 5 OHMS OR LESS. TO ACHIEVE THIS LEVEL OF RESISTANCE THE CONTRACTOR SHALL PURSUE ONE OF THE FOLLOWING OPTIONS:
  - A) CONNECT TO AN EXISTING GROUND SYSTEM.
  - B) CONNECT TO AN EXISTING STEEL BUILDING COLUMNS.
  - C) INSTALL A NEW GROUND SYSTEM OR
  - D) INSTALL NEW HIT GROUND ROD (S).
 UPON COMPLETION OF GROUNDING INSTALLATION THE CONTRACTOR SHALL EMPLOY AN OWNER APPROVED THIRD PARTY (PAID BY OWNER) TO PREPARE A "FALL OF POTENTIAL" TEST AND SUBMIT A REPORT OF SUCH TEST FOR APPROVAL BY OWNER.
8. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LONG BARREL COMPRESSION TYPE COPPER LUGS AND KOPR-SHIELD PLACED BETWEEN LUGS AND GROUND BAR.
9. GROUNDING RODS SHALL BE 5/8" x 10' LONG COPPER CLAD STEEL SPACED AT 10' O.C. APART MAX. RODS SHALL BE INTERCONNECTED WITH #2 SOLID TINNED BCW BURIED A MIN. OF 30" BELOW GRADE. AN ONSITE INSPECTION BY OWNER IS REQUIRED PRIOR TO BACKFILL.
10. ALL UNDERGROUND ELECTRODES SHALL BE BONDED TO EMBEDDED STEEL REINFORCING IN CONCRETE SLAB AND IN NEW MONOPINE FOUNDATION (IF APPLICABLE).
11. CONTRACTOR SHALL SEAL ALL LOCATIONS WITH ELECTRICAL TAPE AND BUTYL SEALANT, TO WEATHER-PROOF GROUND KITS. MORE SEALANT MAY BE REQUIRED THAN WHAT IS FURNISHED WITH MANUFACTURER'S KITS. CONTRACTOR TO FURNISH AS REQUIRED.
12. CONTRACTOR COVER EXPOSED BCW CONDUCTOR WITH FLEX TUBING, SEAL OPEN END WITH SILICONE SEALANT AND FASTEN TUBING TO PIPE SUPPORTS OR COLUMNS W/STAND-OFFS AND TY WRAPS AS REQUIRED.

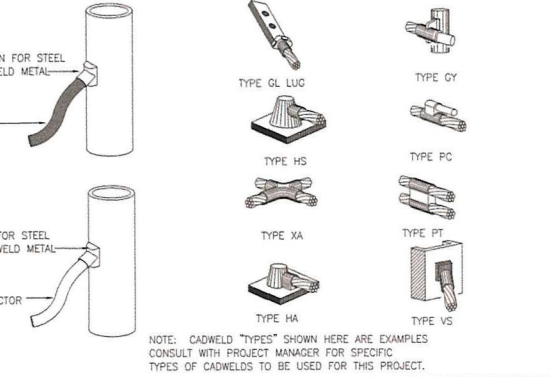
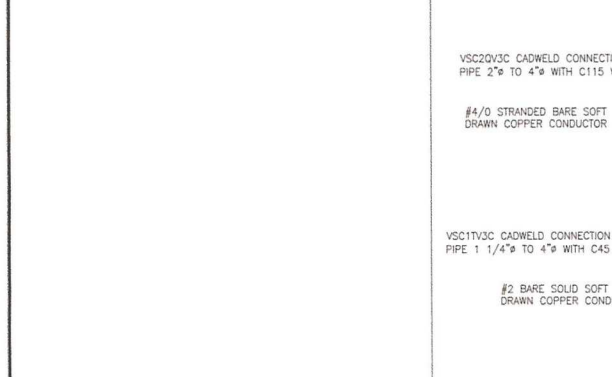
GROUNDING NOTES SCALE: NONE 1



- NOTES:
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  2. FOR GROUND BOND TO STEEL ONLY: INSERT A TOOTH WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES W/COPPER SHIELD ANTIOX OR NO-OX.
  3. ALL HOLES ARE COUNTERSUNK 1/16".
  4. QUANTITY OF CONNECTIONS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DETERMINE QUANTITY AS REQUIRED.

ANTENNA GROUND BUS (AGB) SCALE: NONE 6

NOT USED SCALE: NONE 3



NOTE: CADWELD "TYPES" SHOWN HERE ARE EXAMPLES CONSULT WITH PROJECT MANAGER FOR SPECIFIC TYPES OF CADWELDS TO BE USED FOR THIS PROJECT.

NOT USED SCALE: NONE 7

CADWELD DETAIL SCALE: NONE 4

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