Verizon

VERIZON FUZE PROJECT#: 16119501

VERIZON SITE NUMBER: 300189

VERIZON SITE NAME:

MURPHY AVENUE -

BATTAGLIA RANCH A - C COUNTY:

35'-0" MODIFIED TO 50'-0"

MONOPOLE

TOWER HEIGHT:

BUSINESS UNIT #:877196

13145 MURPHY AVE SITE ADDRESS: SAN MARTIN, CA 95046

SANTA CLARA

COUNTY OF SANTA CLARA **JURISDICTION:**

SITE INFORMATION

13145 MURPHY AVE SAN MARTIN, CA 95046

CROWN CASTLE USA INC.

SITE ADDRESS:

SITE TYPE:

101 AUTO REPAIR SITE NAME:

COUNTY: SANTA CLARA MAP/PARCEL #: AREA OF CONSTRUCTION: **EXISTING** LATITUDE: 37° 5' 6.61" -121° 36' 4.79" LONGITUDE:

NAD83 LAT/LONG TYPE: GROUND ELEVATION 285 FT **CURRENT ZONING:** RR-5A

COUNTY OF SANTA CLARA JURISDICTION:

OCCUPANCY CLASSIFICATION: U

TYPE OF CONSTRUCTION:

A.D.A. COMPLIANCE:

HUMAN HABITATION

PROPERTY OWNER: SUMNER LEASING LLC

13145 MURPHY AVE SAN MARTIN, CA 95046

TOWER OWNER:

CARRIER/APPLICANT:

CROWN CASTLE 14301 HACIENDA DR SUITE 104 PLEASANTON, CA 94588

VERIZON WIRELESS 3245 158TH AVENUE MS 231

FACILITY IS UNMANNED AND NOT FOR

BELLEVUE, WA 98008

ELECTRIC PROVIDER:

PACIFIC GAS & ELECTRIC (800) 743-5000

TELCO PROVIDER: TBD

DRAWING INDEX SHEET DESCRIPTION SHEET# TITLE SHEET

1-1	
Т-2	GENERAL NOTES
T-3 - T-8	AS-BUILT SURVEY (BY OTHERS)
C-1.1	PARCEL PLAN
C-1.2	EXISTING COMPOUND PLAN
C-1.3	PROPOSED COMPOUND PLAN
C-2	TOWER ELEVATION
C-3	ANTENNA PLANS
C-4	EQUIPMENT SCHEDULES
C-5.1-C-5.7	EQUIPMENT DETAILS
E-1.1	OVERALL UTILITY VIEW
E-1.2	UTILITY VIEW
E-1.3	GROUNDING VIEW
E-2	ELECTRICAL DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND XISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

APPROVALS

SIGNATURE

G-1 GROUNDING DETAILS

GROUNDING DETAILS

DATE

https://pmi.vxwsmart.com

PROJECT TEAM

A&E FIRM:

TOWER ENGINEERING PROFESSIONALS

4710 E ELWOOD ST, STE 9 PHOENIX, AZ 85040 OFFICE: (480) 285-0036

JOSEPH CRESS - PROJECT MANAGER

STEPHEN BUNTING - CIVIL ENGINEER

MARK QUAKENBUSH - ELECTRICAL ENGINEER

CROWN CASTLE USA INC. DISTRICT

CONTACTS:

---- - PROJECT MANAGER

---- - CONSTRUCTION MANAGER

SABRINA LANCASTER SABRINA. LANCASTER@CROWN CASTLE.COM

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT SMART TOOL VENDOR PROJECT NUMBER

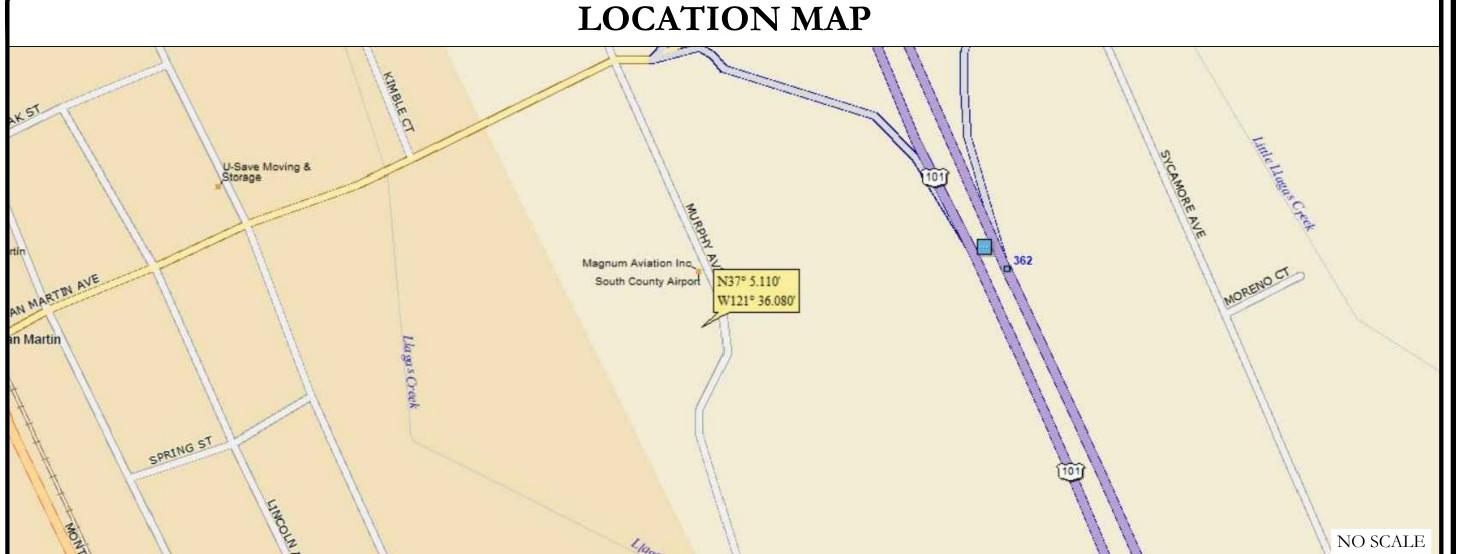
16119501 VzW LOCATION CODE (PSLC) 300189

*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED

VzW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VzW SMART KIT APPROVED VENDORS



DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (VERIZON, 6965 CAMINO ARROYO, GILROY, CA 95020,) HEAD SOUTH TOWARD CAMINO ARROYO. TURN RIGHT. TURN LEFT TOWARD CAMINO ARROYO. TURN LEFT TOWARD CAMINO ARROYO. TURN LEFT ONTO CAMINO ARROYO. USE THE 3RD FROM THE LEFT LANE TO TURN LEFT AT THE 1ST CROSS STREET ONTO CA-152 W. TURN RIGHT TO MERGE WITH US-101 N. FOLLOW US-101 N TO E SAN MARTIN AVE IN SAN MARTIN. TAKE EXIT 362 FROM US-101 N. MERGE WITH US-101 N. TAKE EXIT 362 FOR SAN MARTIN AVE. CONTINUE ON E SAN MARTIN AVE. DRIVE TO MURPHY AVE . TURN LEFT ONTO E SAN MARTIN AVE. TURN LEFT ONTO MURPHY AVE. DESTINATION WILL BE ON THE RIGHT.

APPLICABLE CODES/REFERENCE **DOCUMENTS**

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

CODE TYPE CODE

BUILDING **MECHANICAL** ELECTRICAL

2022 CALIFORNIA BUILDING CODE/2021 IBC 2022 CALIFORNIA MECHANICAL CODE/2021 UMC 2022 CALIFORNIA ELECTRICAL CODE/2020 NEC

REFERENCE DOCUMENTS:

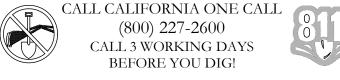
STRUCTURAL ANALYSIS: BLACK & VEATCH CORP.

DATED: 08/23/2021 MOUNT ANALYSIS: BY OTHERS

DATED:

RFDS REVISION: 1 DATED: 05/13/2021

ORDER ID: 582266 REVISION:



PROJECT DESCRIPTION

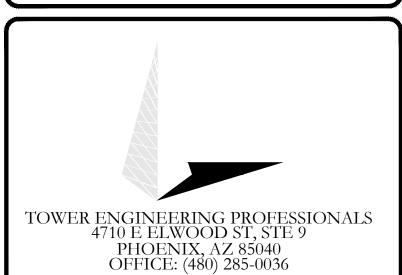
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:

- INSTALL (9) ANTENNAS
- INSTALL (6) RADIOS
- INSTALL (1) OVP BOX • INSTALL (3) DUAL ANTENNA BRACKETS
- INSTALL (1) COMPACT MOUNT
- INSTALL (1) MOUNT ADAPTER
- INSTALL 15' TOWER EXTENSION GROUND SCOPE OF WORK:
- REMOVE EXISTING CURB
- INSTALL (1) VERIZON 10'-0"X 7'-0" CONCRETE PAD
- INSTALL (1) VERIZON 11'-0"X 7'-0" CONCRETE PAD • INSTALL (1) VERIZON RF CABINET
- INSTALL (1) VERIZON BATTERY CABINET
- INSTALL (1) VERIZON GPS ANTENNA
- INSTALL (2) VERIZON SERVICE LIGHTS • INSTALL (1) VERIZON H-FRAME
- INSTALL (1) VERIZON FIBER DISTRIBUTION BOX
- INSTALL (1) VERIZON 200A ILC
- INSTALL (1) 200A VERIZON METER WITH 200A SERVICE
- DISCONNECT
- INSTALL (3) VERIZON 1-5/8" HYBRID LINE (SHARED)
- INSTALL (1) VERIZON DUS41 UNIT WITHIN RF CABINET
- INSTALL (1) VERIZON 2" CONDUIT FOR POWER
- INSTALL (2) VERIZON 4" CONDUIT FOR HYBRID • INSTALL (1) VERIZON 30kW GENERATOR W/ 54 GAL FUEL TANK
- INSTALL (1) 4'-0" MAN GATE







VERIZON SITE NUMBER: 300189

> BU #: **877196 101 AUTO REPAIR**

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

	ISSUED FOR:						
REV	DATE	DRWN	DESCRIPTION	DES./QA			
3	11/17/22	KRS	CONSTRUCTION	JFJ			
4	05/19/23	KBA	CONSTRUCTION	JFJ			
5	06/16/23	GBP	CONSTRUCTION	JFJ			
6	06/30/23	GBP	CONSTRUCTION	JFJ			
7	01/02/24	TWH	CONSTRUCTION	JTC			



Stephen Bunting P.E. Professional Engineer License: #91898

OF A LICENSED PROFESSIONAL ENGINEER,

IT IS A VIOLATION OF LAW FOR ANY PERSON, INLESS THEY ARE ACTING UNDER THE DIRECTION

TO ALTER THIS DOCUMENT. **SHEET NUMBER:**

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 1. NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
- "LOOK UP" CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT
- THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED-STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION)
- 5. ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
- 11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- 12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY
- 13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES
- 14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
- 15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- 16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED JRFACE APPLICATION.
- 17. THE AREAS OF THE OWNERS 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 AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS. 18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES
- FOR EROSION AND SEDIMENT CONTROL. 19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION
- 20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- 21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
- 22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CONTRACTOR:
- CARRIER: VERIZON TOWER OWNER: CROWN CASTLE USA INC.
- 2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
- SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSI<mark>ONS AND MEASUREMENTS ON</mark> THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR 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 CROWN CASTLE
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING
- WITH ANY SUCH CHANGE OF INSTALLATION. 11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN
- DRAWINGS 12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC. 13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND
- OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION. 14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON
- SHEET C-5.6). ENCLOSURE WILL ENCLOSE THE GENERATOR ONLY PER THE MANUFACTURER STANDARDS. NO OTHER EQUIPMENT WILL BE ENCLOSED BY THE GENERATOR ENCLOSURE.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND
- THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE. 2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- 3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF
- 4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE
- TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45. 5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE
- #4 BARS AND SMALLER. 40 ksi #5 BARS AND LARGER... ... 60 ksi
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...
- CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER... #5 BARS AND SMALLER.. .1-1/2"
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLAB AND WALLS....
- BEAMS AND COLUMNS1-1/2" 7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED

OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

SANTA CLARA GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE CONTRACTOR SHALL PERFORM IEEE FALL—OF—POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE
- CLAMPS

- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- 11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- 13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- 16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- 18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
- 19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED
- AND TRIP HAZARDS ARE ELIMINATED.
- 3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. 4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
- ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
- EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS 8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- 10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHËRWISE SPECIFIÉD.
- 11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- 12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TO CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- 13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
- 14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE
- 15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS
- 16. ELECTRICAL METALLIC TUBING (EMT) OR METAL—CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS. 17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE
- GRADE PVC CONDUIT.
- 18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- 19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE. 20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND
- 21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS
- (WIREMOLD SPECMATE WIREWAY).
- 22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- 23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED
- MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY—COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR
- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY—COATED OR NON—CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED
- (WP OR BETTER) FOR EXTERIOR LOCATIONS. 26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED
- NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS. 27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC.
- BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS. 28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- 29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON". 30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE						
SYSTEM	CONDUCTOR	COLOR				
	A PHASE	BLACK				
120/240V, 1Ø	B PHASE	RED				
120/2400, 10	NEUTRAL	WHITE				
	GROUND	GREEN				
	A PHASE	BLACK				
	B PHASE	RED				
120/208V, 3Ø	C PHASE	BLUE				
	NEUTRAL	WHITE				
	GROUND	GREEN				
	A PHASE	BROWN				
	B PHASE	ORANGE OR PURPLE				
277/480V, 3Ø	C PHASE	YELLOW				
	NEUTRAL	GREY				
	GROUND	GREEN				
DC VOLTAGE	POS (+)	RED**				
DC VOLIAGE	NEG (-)	BLACK**				

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

FACILITY INTERFACE FRAME

LONG TERM EVOLUTION

NATIONAL ELECTRIC CODE

MASTER GROUND BAR

RADIO BASE STATION

REMOTE RADIO HEAD

SMART INTEGRATED DEVICE

TOWER MOUNTED AMPLIFIER

UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM

REMOTE RADIO UNIT

REMOTE ELECTRIC TILT

RADIO FREQUENCY DATA SHEET

GLOBAL POSITIONING SYSTEM

GLOBAL SYSTEM FOR MOBILE

ABBREVIATIONS:

GEN

GPS

GSM

LTE

MGB

MW

NEC

QTY

RBS

RET

RFDS

RRU

SIAD

TMA

TYP

UMTS

W.P.

RECT

ANTENNA

EXISTING

GENERATOR

MICROWAVE

PROPOSED

QUANTITY

RECTIFIER

TYPICAL

WORK POINT

POWER PLANT

APWA UNIFORM COLOR CODE:

PROPOSED EXCAVATION EMPORARY SURVEY MARKINGS LECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES

GASEOUS MATERIALS COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS

GAS, OIL, STEAM, PETROLEUM, OR

POTABLE WATER ECLAIMED WATER, IRRIGATION, AND

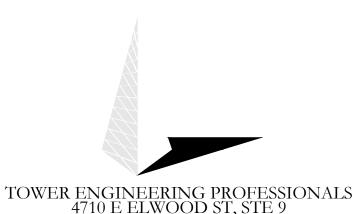
SEWERS AND DRAIN LINES

SLURRY LINES

BELLEVUE, WA 98008



PLEASANTON, CA 94588



VERIZON SITE NUMBER: 300189

PHOENIX, AZ 85040

OFFICE: (480) 285-0036

BU #: **877196 101 AUTO REPAIR**

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

	ISSUED FOR:					
ı	REV	DATE	DRWN	DESCRIPTION	DES./QA	
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ı	6	06/30/23	GBP	CONSTRUCTION	JFJ	
1	7	01/02/24	TWH	CONSTRUCTION	JTC	



Stephen Bunting P.E. Professional Engineer License: #91898

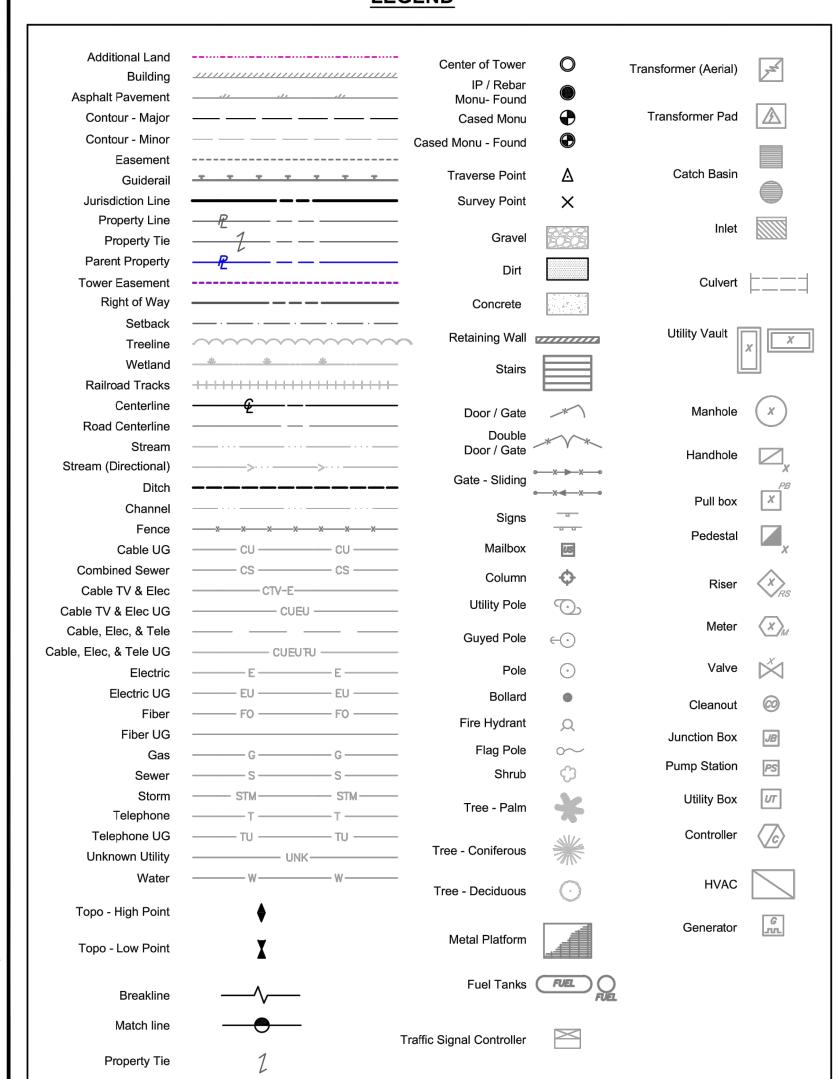
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SHEET NUMBER:

- 4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- 14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR. 15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- 20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL). 21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO

TOWER SURVEY 877196

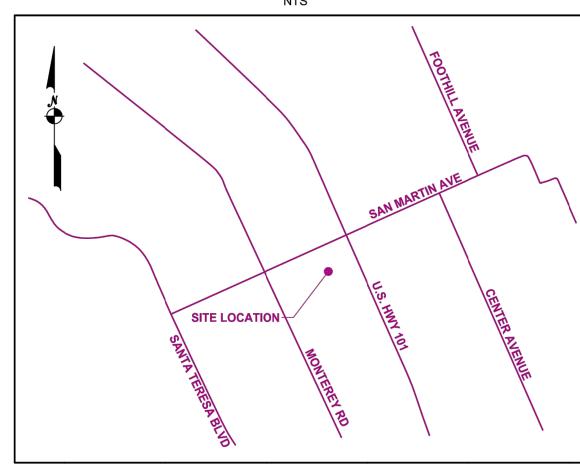
LEGEND



101 AUTO REPAIR

13145 MURPHY AVENUE SAN MARTIN, CA 95046 SANTA CLARA COUNTY

VICINITY MAP



AREA SUMMARY

AREA	SQ. FT.	ACRES
PARENT PARCEL	79,869	1.833
TOWER LEASE AREA	599	0.014
EQUIPMENT LEASE AREA NO. 1 (VERIZON)	77	0.002
EQUIPMENT LEASE AREA NO. 2 (VERIZON)	77	0.002
ACCESS & UTILITY EASEMENT	1,193	0.027

CONTENTS

COVER SHEET
PROPERTY OVERVIEW
EASEMENT OVERVIEW
SITE OVERVIEW
SITE OVERVIEW DETAIL (INTERNAL USE)
LEGAL DESCRIPTIONS

UTILITY NOTE

1. Surveyor does not guarantee that all utilities are shown or their locations are definite. It is the responsibility of the contractor and developer to contact any involved agencies to locate all utilities prior to construction. removal, relocation and/or replacement is the responsibility of the contractor.

Any underground utilities located and shown hereon were

SURVEY PROCEDURES & EQUIPMENT

The Accuracy Of This Survey Meets Or Exceeds The Minimum Standards As Required By the State of California.

Instruments Used:

Leica Global Positioning System Leica Total Station

GRID-TO-GROUND SCALE FACTOR NOTE

ALL BEARINGS AND DISTANCES ARE BASED ON THE CALIFORNIA ZONE 3 STATE PLANE COORDINATE ZONE GRID. TO DERIVE GROUND DISTANCES DIVIDE BY

COORDINATES

	For internal use
LABEL	LAT, LONG
MON #1 / POC	37*05'07.00", -121*36'03.60"
MON #2	37*05'15.95", -121*36'08.53"
POB - LEASE AREA	37*05'06.63", -121*36'04.64"
CENTER OF TOWER	37*05'06.62", -121*36'04.98"

ABBREVIATIONS

	
POC	POINT OF COMMENCEMENT
POB	POINT OF BEGINNING
ROW	RIGHT OF WAY
NFNS	NOTHING FOUND, NOTHING SET



CROWN CASTLE

1500 Corporate Drive Canonsburg, PA 15317

SURVEY COORDINATED BY:

AMBIT CONSULTING 428 Main Street, Suite 206, Huntington Beach, CA 92648 Tele: (480) 659-4072

SURVEY PERFORMED BY:

AMBIT CONSULTING 428 Main Street, Suite 206, Huntington Beach, CA 92648

Tele: (480) 659-4072

DRAWN BY: CK CHK BY: MF JOB NO.: 877196 SURVEYOR'S CERTIFICATION:

I hereby certify CCTMO LLC, Crown Castle USA Inc., including its parents, subsidiaries and affiliated entities, and Tower Title and Closing, that this map was made under my direction as a licensed surveyor in the State of California; field effort was



LEASE AREA ZONING:

LEASE AREA FLOOD NOTE:

THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE "AO" ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP D #06085C0628H, DATED 05/18/2009.

BEARING BASIS:

BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM CALIFORNIA STATE PLANE COORDINATE THREE ZONE, DETERMINED BY GPS OBSERVATIONS.

- SURVEY PERFORMED ON 04/27/2022. DATA PROJECTED IN STATE PLANE COORDINATE SYSTEM CALIFORNIA ZONE THEE, WITH NAVD88
- ALL VISIBLE TOWER EQUIPMENT AND IMPROVEMENTS ARE CONTAINED WITHIN THE DESCRIBED AREA, UNLESS OTHERWISE NOTED HEREON.
- NOT ALL SYMBOLS ARE DEPICTED TO SCALE. THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.

REV	DATE	E	DESCRIPTION	DRWI
0	5/02/	/22	SUBMITTAL	CK
1	7/08/	/22	TITLE/DESIGN (C)	CK
SITE	INFO	RMAT	ION:	
Nan	ne	101	AUTO REPAIR	
BUI	7	877	196	
Address 131		131	45 MURPHY AVENUE	
		SAN	I MARTIN, CA 95046	
County SAN		SAN	ITA CLARA COUNTY	
	LOCA		N: NCH MAP 2, BOOK "G", PG 38-39	
SAIN	IVICAL	II	NOT WAF 2, BOOK G, FG 30-39	

TOWER SURVEY

SHEET: COVER SHEET

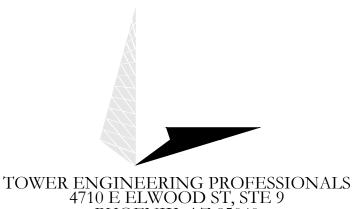


CROWN CASTLE

verizon

BELLEVUE, WA 98008

4301 HACIENDA DRIVE, SUITE 410 PLEASANTON, CA 94588



PHOENIX, AZ 85040 OFFICE: (480) 285-0036

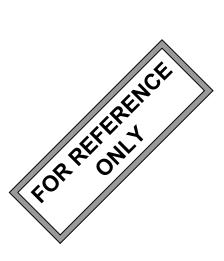
VERIZON SITE NUMBER: 300189

> BU #: **877196** 101 AUTO REPAIR

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

-								
	ISSUED FOR:							
REV	DATE	DRWN	DESCRIPTION	DES./QA				
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4	05/19/23	KBA	CONSTRUCTION	JFJ				
5	06/16/23	GBP	CONSTRUCTION	JFJ				
6	06/30/23	GBP	CONSTRUCTION	JFJ				
7	01/02/24	TWH	CONSTRUCTION	JTC				



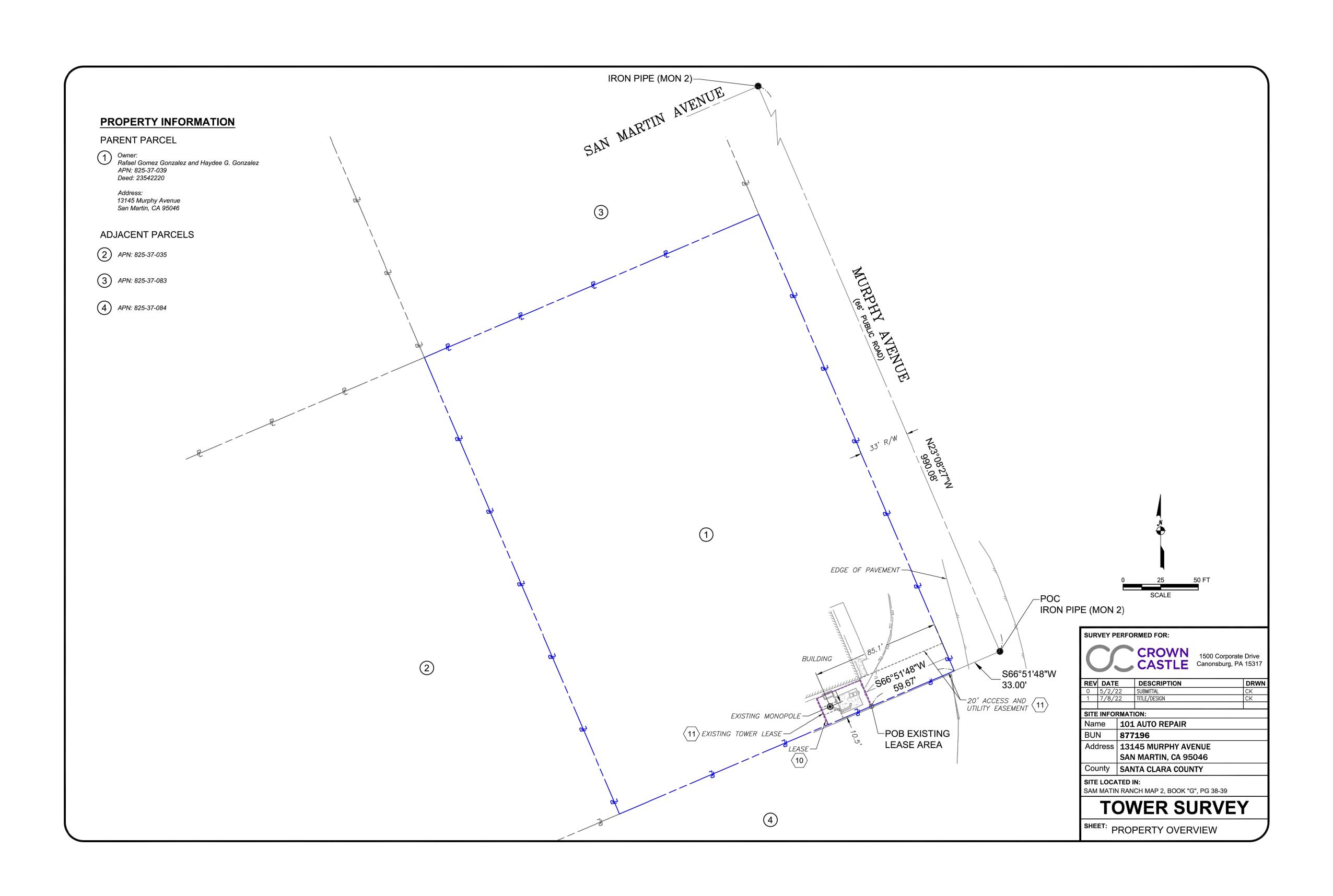
01/02/24

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SHEET NUMBER:

REVISION:

AS-BUILT SURVEY (BY OTHERS)







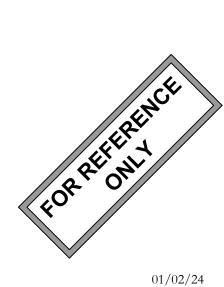


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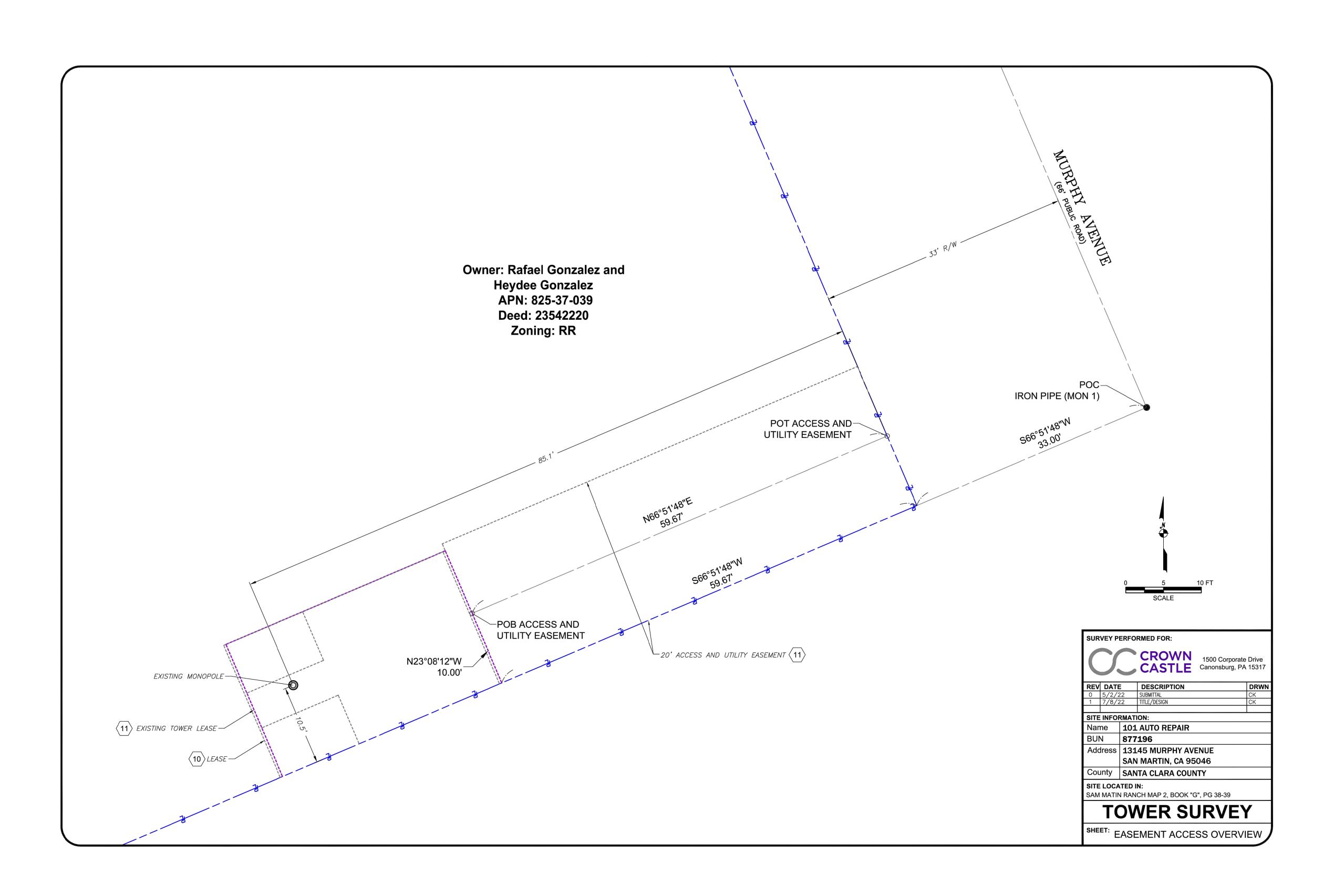
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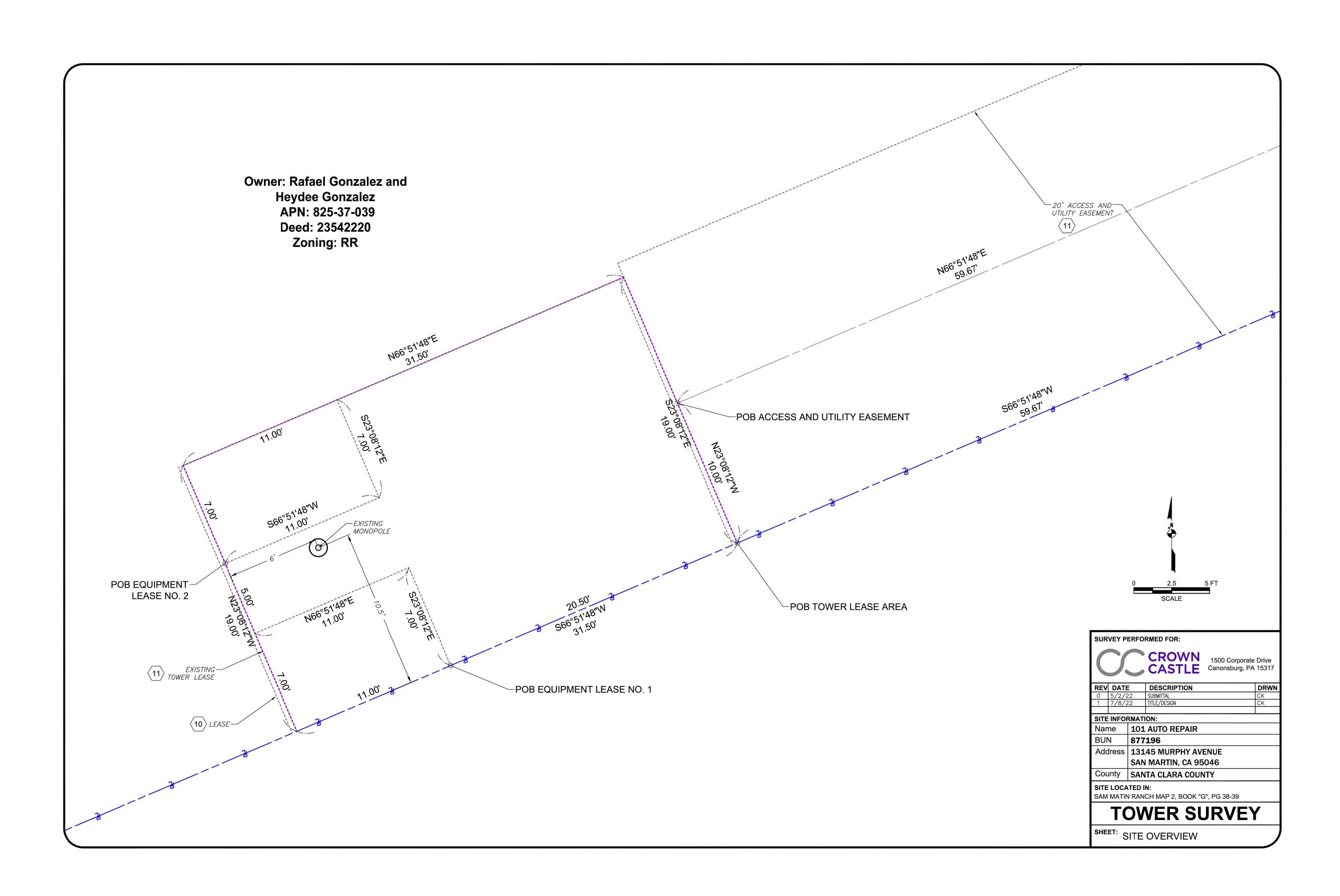


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REVISION:

SHEET NUMBER:

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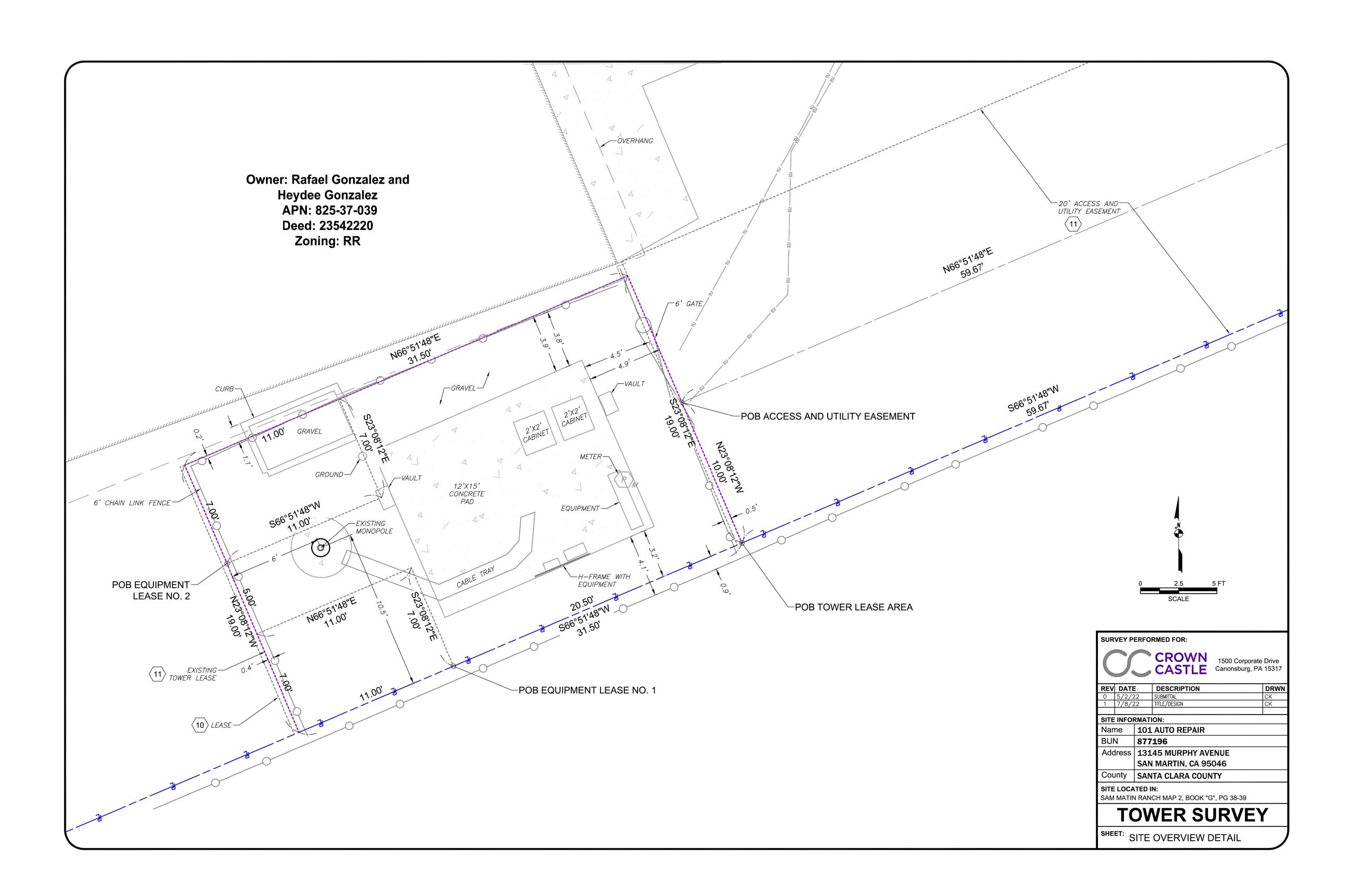
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SHEET NUMBER:

T-7

PARENT PARCEL DESCRIPTION

THE LAND REFERRED TO IS SITUATED IN THE UNINCORPORATED AREA OF THE COUNTY OF SANTA CLARA, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:
PORTION OF LOT 64, AS SHOWN UPON THE MAP ENTITLED, "SAN MARTIN RANCH MAP NO. 2", WHICH MAP WAS FILED FOR RECORD IN THE OFFICE OF THE COUNTY RECORDER, COUNTY OF SANTA CLARA, STATE OF CALIFORNIA, ON JANUARY 27, 1893 IN BOOK G OF MAPS, AT PAGES 38 AND 39, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT THE POINT OF INTERSECTION OF THE CENTER LINE OF MURPHY AVENUE WITH THE DIVIDING LINE BETWEEN LOTS 63 AND 64, AS SAID AVENUE AND LOTS ARE SHOWN UPON THE MAP ABOVE REFERRED TO; THENCE FROM SAID POINT OF BEGINNING SOUTH 23 DEG. 49' EAST ALONG THE CENTER LINE OF MURPHY AVENUE FOR A DISTANCE OF 330.00 FEET TO THE SOUTHEASTERLY CORNER OF SAID LOT 64; THENCE SOUTH 66 DEG. 11' WEST ALONG THE SOUTHEASTERLY LINE OF SAID LOT 64, FOR A DISTANCE OF 275.00 FEET; THENCE NORTH 23 DEG. 49' WEST AND PARALLEL WITH THE CENTER LINE OF MURPHY AVENUE FOR A DISTANCE OF 330.00 FEET TO A POINT IN THE DIVIDING

LINE BETWEEN SAID LOTS 63 AND 64: THENCE NORTH 66 DEG. 11' EAST ALONG SAID LAST MENTIONED DIVIDING

TAX ID NO: 825-37-039

PRIVATION CLAUSE

BEING THE SAME PROPERTY CONVEYED TO RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GONZALEZ, HUSBAND AND WIFE AS JOINT TENANTS, GRANTEE, FROM RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GONZALEZ, HUSBAND AND WIFE WHO ACQUIRED TITLE AS GONZALEZ GOMEZ AND HAYDEE GONZALEZ GOMEZ, HUSBAND AND WIFE AS JOINT TENANTS, GRANTOR, BY GRANT DEED, RECORDED 12/23/2016 AS INSTRUMENT NO. 23542220 OF SANTA CLARA COUNTY RECORDS.

COMMITMENT FOR TITLE REVIEW

LINE FOR A DISTANCE OF 275.00 FEET TO THE POINT OF BEGINNING.

REFERENCE IS MADE TO THE TITLE REPORT ORDER #TEP-133860-I, ISSUED BY TOWER TITLE AND CLOSING, DATED JUNE 7, 2022. ALL EASEMENTS CONTAINED WITHIN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED.

- 1. DEFECTS, LIENS, ENCUMBRANCES, ADVERSE CLAIMS OR OTHER MATTERS, IF ANY, CREATED, FIRST APPEARING IN THE PUBLIC RECORDS OR ATTACHING SUBSEQUENT TO THE EFFECTIVE DATE BUT PRIOR TO THE DATE THE PROPOSED INSURED ACQUIRES FOR VALUE OF RECORD THE ESTATE OR INTEREST OR MORTGAGE THEREON COVERED BY THIS REPORT, INCLUDING:
- A. TAXES OR ASSESSMENTS THAT ARE NOT SHOWN AS EXISTING LIENS BY THE RECORDS OF ANY TAXING AUTHORITY THAT LEVIES TAXES OR ASSESSMENTS ON REAL PROPERTY OR BY THE PUBLIC RECORDS;

 B. PROCEEDINGS BY A PUBLIC AGENCY THAT MAY RESULT IN TAXES OR ASSESSMENTS. OR NOTICES OF SUCH

PROCEEDINGS, WHETHER OR NOT SHOWN BY THE RECORDS OF SUCH AGENCY OR BY THE PUBLIC RECORDS.

- (EXCEPTION IS A STANDARD EXCEPTION AND NOT THE TYPE TO BE SHOWN HEREON)

 2. THE LIEN OF SUPPLEMENTAL OR ESCAPED ASSESSMENTS OF PROPERTY TAXES, IF ANY. (EXCEPTION IS A STANDARD EXCEPTION AND NOT THE TYPE TO BE SHOWN HEREON)
- 3. ANY FACTS, RIGHTS, INTERESTS, OR CLAIMS THAT ARE NOT SHOWN BY THE PUBLIC RECORDS BUT THAT COULD BE ASCERTAINED BY AN INSPECTION OF THE LAND OR THAT MAY BE ASSERTED BY PERSONS IN POSSESSION OF THE LAND. (EXCEPTION IS A STANDARD EXCEPTION AND NOT THE TYPE TO BE SHOWN HEREON)
- 4. EASEMENTS, LIENS OR ENCUMBRANCES, OR CLAIMS THEREOF, NOT SHOWN BY THE PUBLIC RECORDS. (EXCEPTION IS A STANDARD EXCEPTION AND NOT THE TYPE TO BE SHOWN HEREON)
- 5. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND AND NOT SHOWN BY THE PUBLIC RECORDS, INCLUDING:
- A. UNPATENTED MINING CLAIMS;
- B. RESERVATIONS OR EXCEPTIONS IN PATENTS OR IN ACTS AUTHORIZING THE ISSUANCE THEREOF; C. WATER RIGHT, CLAIMS OR TITLE TO WATER,
- WHETHER OR NOT THE MATTERS EXCEPTED UNDER (A), (B) OR (C) ARE SHOWN BY THE PUBLIC RECORDS. (EXCEPTION IS A STANDARD EXCEPTION AND NOT THE TYPE TO BE SHOWN HEREON)
- 6. ANY LIEN OR RIGHT TO LIEN FOR SERVICES, LABOR OR MATERIAL NOT SHOWN BY THE PUBLIC RECORDS. (EXCEPTION IS A STANDARD EXCEPTION AND NOT THE TYPE TO BE SHOWN HEREON)
- 7. TAXES FOR THE CURRENT FISCAL YEAR AND SUBSEQUENT YEARS, A LIEN NOT YET DUE AND PAYABLE. (EXCEPTION IS A STANDARD EXCEPTION AND NOT THE TYPE TO BE SHOWN HEREON)
- 8. RIGHTS OF FEE SIMPLE OWNERS IN AND TO THE SUBJECT PROPERTY. (EXCEPTION IS A STANDARD EXCEPTION AND NOT THE TYPE TO BE SHOWN HEREON)
- 9. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "PLAT MAP" DATED JANUARY 27, 1893 AND RECORDED JANUARY 27, 1893 IN (BOOK) G (PAGE) 38, IN SANTA CLARA COUNTY, CALIFORNIA. (NOTHING TO PLOT)
- TERMS AND CONDITIONS OF AN UNRECORDED LEASE, AS EVIDENCED BY A(N) MEMORANDUM OF PCS SITE AGREEMENT BETWEEN JOSE LUIS TELLEZ RAMOS AND GUADALUPE B. TELLEZ, HUSBAND AND WIFE AS COMMUNITY PROPERTY AS TO AN UNDIVIDED 3/4 INTEREST AND A AND CESAR O. FRANCO, WIFE AND AS COMMUNITY PROPERTY AND SPRINT SPECTRUM L.P., A DELAWARE LIMITED PARTNERSHIP, DATED MARCH 7, 1996 AND RECORDED MAY 19, 1999 IN (INSTRUMENT) 14819478. IN SANTA CLARA COUNTY, CALIFORNIA.
- AFFECTED BY A(N) MEMORANDUM OF FIRST AMENDMENT TO PCS SITE AGREEMENT BETWEEN RAFAEL G. GOMEZ AND HAYDEE G. GOMEZ, HUSBAND AND WIFE AS JOINT TENANTS AND STC FIVE LLC, A DELAWARE LIMITED LIABILITY COMPANY, BY AND THROUGH ITS ATTORNEY IN FACT, GLOBAL SIGNAL ACQUISITIONS II LLC, A DELAWARE LIMITED LIABILITY COMPANY, DATED AUGUST 31, 2011 AND RECORDED DECEMBER 29, 2011 IN (INSTRUMENT) 21478283, IN SANTA
- AFFECTED BY A(N) MEMORANDUM OF SECOND AMENDMENT TO PCS SITE AGREEMENT BETWEEN LD ACQUISITION COMPANY 16 LLC, A DELAWARE LIMITED LIABILITY COMPANY AND STC FIVE LLC, A DELAWARE LIMITED LIABILITY COMPANY, BY AND THROUGH ITS ATTORNEY IN FACT, GLOBAL SIGNAL ACQUISITIONS II LLC, A DELAWARE LIMITED LIABILITY COMPANY, DATED MARCH 31, 2018 AND RECORDED MAY 29, 2018 IN (INSTRUMENT) 23943348, IN SANTA CLARA COUNTY, CALIFORNIA. (AS SHOWN ON SURVEY)
- (11) EASEMENT AND ASSIGNMENT OF LEASE AGREEMENT BETWEEN RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GOMEZ, AS HUSBAND AND WIFE; AND LANDMARK INFRASTRUCTURE HOLDING COMPANY LLC, A DELAWARE LIMITED LIABILITY COMPANY, DATED JANUARY 12, 2018 AND RECORDED FEBRUARY 21, 2018 IN (INSTRUMENT) 23872720, IN SANTA CLARA COUNTY, CALIFORNIA.
- AFFECTED BY A(N) ASSIGNMENT OF EASEMENT AND ASSIGNMENT OF LEASE AGREEMENT BETWEEN LANDMARK INFRASTRUCTURE HOLDING COMPANY LLC, A DELAWARE LIMITED LIABILITY COMPANY; AND LD ACQUISITION COMPANY 16 LLC, A DELAWARE LIMITED LIABILITY COMPANY, DATED FEBRUARY 15, 2018 AND RECORDED FEBRUARY 21, 2018 IN (INSTRUMENT) 23873048, IN SANTA CLARA COUNTY, CALIFORNIA. (AS SHOWN ON SURVEY)

EXISTING TOWER LEASE AREA

AS CREATED BY THIS OFFICE

A PORTION OF THAT CERTAIN PROPERTY CONVEYED TO RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GONZALEZ, HUSBAND AND WIFE AS JOINT TENANTS, GRANTEE, FROM RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GONZALEZ, HUSBAND AND WIFE WHO ACQUIRED TITLE AS GONZALEZ GOMEZ AND HAYDEE GONZALEZ GOMEZ, HUSBAND AND WIFE AS JOINT TENANTS, GRANTOR, BY GRANT DEED, RECORDED 12/23/2016 AS INSTRUMENT NO. 23542220 OF SANTA CLARA COUNTY RECORDS, STATE OF CALIFORNIA, BEING A PORTION OF LOT 64, AS SHOWN UPON THE MAP ENTITLED, "SAN MARTIN RANCH MAP NO. 2", WHICH MAP WAS FILED FOR RECORD IN THE OFFICE OF THE COUNTY RECORDER, OF SAID COUNTY, ON JANUARY 27, 1893 IN BOOK G OF MAPS, AT PAGES 38 AND 39, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE POINT OF INTERSECTION OF THE CENTER LINE OF MURPHY AVENUE WITH THE SOUTHEAST CORNER OF LOT 64, AS SAID AVENUE AND LOTS ARE SHOWN UPON THE MAP ABOVE REFERRED TO FROM WHICH THE CENTERLINE INTERSECTION OF MURPHY AVENUE AND SAN MARTIAN AVENUE BEARS NORTH 23° 08' 27" WEST, 990.08 FEET;

THENCE FROM SAID POINT OF COMMENCEMENT SOUTH 66° 51' 48" WEST, 33.00 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY OF MURPHY AVENUE, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF SAID PROPERTY; THENCE SOUTH 66° 51' 48" WEST ALONG THE SOUTHERLY LINE OF SAID PROPERTY, 59.67 FEET TO THE POINT OF BEGINNING:

THENCE CONTINUING ALONG SAID SOUTH LINE SOUTH 66° 51' 48" WEST, 31.50 FEET; THENCE DEPARTING SAID SOUTH LINE NORTH 23° 08' 12" WEST, 19.00 FEET;

THENCE NORTH 66° 51' 48" EAST, 31.50 FEET;

THENCE SOUTH 23° 08' 12" EAST, 19.00 FEET TO A POINT ON THE SOUTH LINE OF SAID PROPERTY AND THE POINT OF BEGINNING.

CONTAINING 599 SQ. FT. OR 0.014 ACRES, MORE OR LESS.

EQUIPMENT LEASE AREA NO.1

AS CREATED BY THIS OFFICE

A PORTION OF THAT CERTAIN PROPERTY CONVEYED TO RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GONZALEZ, HUSBAND AND WIFE AS JOINT TENANTS, GRANTEE, FROM RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GONZALEZ, HUSBAND AND WIFE WHO ACQUIRED TITLE AS GONZALEZ GOMEZ AND HAYDEE GONZALEZ GOMEZ, HUSBAND AND WIFE AS JOINT TENANTS, GRANTOR, BY GRANT DEED, RECORDED 12/23/2016 AS INSTRUMENT NO. 23542220 OF SANTA CLARA COUNTY RECORDS, STATE OF CALIFORNIA, BEING A PORTION OF LOT 64, AS SHOWN UPON THE MAP ENTITLED, "SAN MARTIN RANCH MAP NO. 2", WHICH MAP WAS FILED FOR RECORD IN THE OFFICE OF THE COUNTY RECORDER, OF SAID COUNTY, ON JANUARY 27, 1893 IN BOOK G OF MAPS, AT PAGES 38 AND 39, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

COMMENCING AT THE POINT OF INTERSECTION OF THE CENTER LINE OF MURPHY AVENUE WITH THE SOUTHEAST CORNER OF LOT 64, AS SAID AVENUE AND LOTS ARE SHOWN UPON THE MAP ABOVE REFERRED TO FROM WHICH THE CENTERLINE INTERSECTION OF MURPHY AVENUE AND SAN MARTIAN AVENUE BEARS NORTH 23° 08' 27" WEST, 990.08 FEET;

THENCE FROM SAID POINT OF COMMENCEMENT SOUTH 66° 51' 48" WEST, 33.00 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY OF MURPHY AVENUE, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF SAID PROPERTY; THENCE SOUTH 66° 51' 48" WEST ALONG THE SOUTHERLY LINE OF SAID PROPERTY, 80.17 FEET TO THE POINT OF BEGINNING;

THENCE CONTINUING ALONG SAID SOUTH LINE SOUTH 66° 51' 48" WEST, 11.00 FEET;

THENCE DEPARTING SAID SOUTH LINE NORTH 23° 08' 12" WEST, 7.00 FEET; THENCE NORTH 66° 51' 48" EAST. 11.00 FEET:

THENCE NORTH 66° 51' 48" EAST, 11.00 FEET;
THENCE SOUTH 23° 08' 12" EAST, 7.00 FEET TO A POINT ON THE SOUTH LINE OF SAID PROPERTY AND THE POINT OF

EGINNING.

CONTAINING 77 SQ. FT. OR 0.002 ACRES, MORE OR LESS.

EQUIPMENT LEASE AREA NO.2

AS CREATED BY THIS OFFICE

A PORTION OF THAT CERTAIN PROPERTY CONVEYED TO RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GONZALEZ, HUSBAND AND WIFE AS JOINT TENANTS, GRANTEE, FROM RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GONZALEZ, HUSBAND AND WIFE WHO ACQUIRED TITLE AS GONZALEZ GOMEZ AND HAYDEE GONZALEZ GOMEZ, HUSBAND AND WIFE AS JOINT TENANTS, GRANTOR, BY GRANT DEED, RECORDED 12/23/2016 AS INSTRUMENT NO. 23542220 OF SANTA CLARA COUNTY RECORDS, STATE OF CALIFORNIA, BEING A PORTION OF LOT 64, AS SHOWN UPON THE MAP ENTITLED, "SAN MARTIN RANCH MAP NO. 2", WHICH MAP WAS FILED FOR RECORD IN THE OFFICE OF THE COUNTY RECORDER, OF SAID COUNTY, ON JANUARY 27, 1893 IN BOOK G OF MAPS, AT PAGES 38 AND 39, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

COMMENCING AT THE POINT OF INTERSECTION OF THE CENTER LINE OF MURPHY AVENUE WITH THE SOUTHEAST CORNER OF LOT 64, AS SAID AVENUE AND LOTS ARE SHOWN UPON THE MAP ABOVE REFERRED TO FROM WHICH THE CENTERLINE INTERSECTION OF MURPHY AVENUE AND SAN MARTIAN AVENUE BEARS NORTH 23° 08' 27" WEST, 990.08 FEET;

THENCE FROM SAID POINT OF COMMENCEMENT SOUTH 66° 51' 48" WEST, 33.00 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY OF MURPHY AVENUE, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF SAID PROPERTY; THENCE SOUTH 66° 51' 48" WEST ALONG THE SOUTHERLY LINE OF SAID PROPERTY, 91.17 FEET; THENCE DEPARTING SAID SOUTH LINE NORTH 23° 08' 12" WEST, 12.00 FEET; TO THE POINT OF BEGINNING;

THENCE CONTINUING NORTH 23° 08' 12" WEST, 7.00 FEET; THENCE NORTH 66° 51' 48" EAST, 11.00 FEET;

THENCE NORTH 66 51 48 EAST, 11.00 FEET, THENCE SOUTH 23° 08' 12" EAST, 7.00 FEET;

THENCE SOUTH 66° 51' 48" WEST, 11.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 77 SQ. FT. OR 0.002 ACRES, MORE OR LESS.

ACCESS & UTILITY EASEMENT: NON-EXCLUSIVE

AS CREATED BY THIS OFFICE

A PORTION OF THAT CERTAIN PROPERTY CONVEYED TO RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GONZALEZ, HUSBAND AND WIFE AS JOINT TENANTS, GRANTEE, FROM RAFAEL GOMEZ GONZALEZ AND HAYDEE G. GONZALEZ, HUSBAND AND WIFE WHO ACQUIRED TITLE AS GONZALEZ GOMEZ AND HAYDEE GONZALEZ GOMEZ, HUSBAND AND WIFE AS JOINT TENANTS, GRANTOR, BY GRANT DEED, RECORDED 12/23/2016 AS INSTRUMENT NO. 23542220 OF SANTA CLARA COUNTY RECORDS, STATE OF CALIFORNIA, BEING A PORTION OF LOT 64, AS SHOWN UPON THE MAP ENTITLED, "SAN MARTIN RANCH MAP NO. 2", WHICH MAP WAS FILED FOR RECORD IN THE OFFICE OF THE COUNTY RECORDER, OF SAID COUNTY, ON JANUARY 27, 1893 IN BOOK G OF MAPS, AT PAGES 38 AND 39, AND BEING A STRIP OF LAND 20.00 FEET WIDE, 10.00 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED CENTERLINE;

COMMENCING AT THE POINT OF INTERSECTION OF THE CENTER LINE OF MURPHY AVENUE WITH THE SOUTHEAST CORNER OF LOT 64, AS SAID AVENUE AND LOTS ARE SHOWN UPON THE MAP ABOVE REFERRED TO FROM WHICH THE CENTERLINE INTERSECTION OF MURPHY AVENUE AND SAN MARTIAN AVENUE BEARS NORTH 23° 08' 27" WEST, 990.08 FEET:

THENCE FROM SAID POINT OF COMMENCEMENT SOUTH 66° 51' 48" WEST, 33.00 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY OF MURPHY AVENUE, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF SAID PROPERTY; THENCE SOUTH 66° 51' 48" WEST ALONG THE SOUTHERLY LINE OF SAID PROPERTY, 59.67 FEET; THENCE DEPARTING SAID SOUTH LINE NORTH 23° 08' 12" WEST, 10.00 FEET TO THE POINT OF BEGINNING;

THENCE NORTH 66° 51' 48" EAST, 59.67 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY MURPHY AVENUE AND THE POINT OF TERMINUS.

THE SIDELINES OF SAID STRIP OF LAND ARE TO INTERSECT AT ALL ANGLE POINTS TO PROVIDE THE SPECIFIED WIDTH THROUGHOUT AND ARE TO BE LENGTHENED OR SHORTENED TO TERMINATE ON SAID WEST LINE OF MURPHY AVENUE

CONTAINING 1,193 SQ. FT. OR 0.027 ACRES, MORE OR LESS.



SHEET: LEGAL DESCRIPTIONS





PLEASANTON, CA 94588



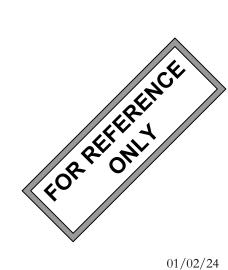
VERIZON SITE NUMBER: 300189

BU #: **877196 101 AUTO REPAIR**

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

	ISSUED FOR:					
REV	DATE	DRWN	DESCRIPTION	DES./QA		
3	11/17/22	KRS	CONSTRUCTION	JFJ		
4	05/19/23	KBA	CONSTRUCTION	JFJ		
5	06/16/23	GBP	CONSTRUCTION	JFJ		
6	06/30/23	GBP	CONSTRUCTION	JFJ		
7	01/02/24	TWH	CONSTRUCTION	JTC		



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SHEET NUMBER:

T-8

7



SITE PLAN DISCLAIMER:

PROPERTY LINES AND STRUCTURES HAVE
BEEN DIGITIZED FROM PREVIOUS PLAN SETS
OR FROM ASSESSORS MAPS. CROWN CASTLE
USA INC. HAS NOT COMPLETED A SITE
SURVEY AND THEREFORE MAKES NO CLAIMS
AS TO THE ACCURACY OF INFORMATION

COURSE 3) THENCE N 66° 51' 48" E, A DISTANCE OF 11.00 FEET;

CONTAINING 77 SQUARE FEET (0.02 ACRES), MORE OR LESS.

POINT OF BEGINNING.

COURSE 4) THENCE S 23° 08' 12" E, A DISTANCE OF 7.00 FEET TO THE

FLOODPLAIN NOTE:
THE TOWER IS LOCATED IN ZONE "AO" AREAS OF UNDETERMINED FLOOD HAZARD ACCORDING TO FEMA COMMUNITY PANEL #06085C0628H, DATED 05/18/2009









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6	06/30/23	GBP	CONSTRUCTION	JFJ	
7	01/02/24	TWH	CONSTRUCTION	ЈТС	



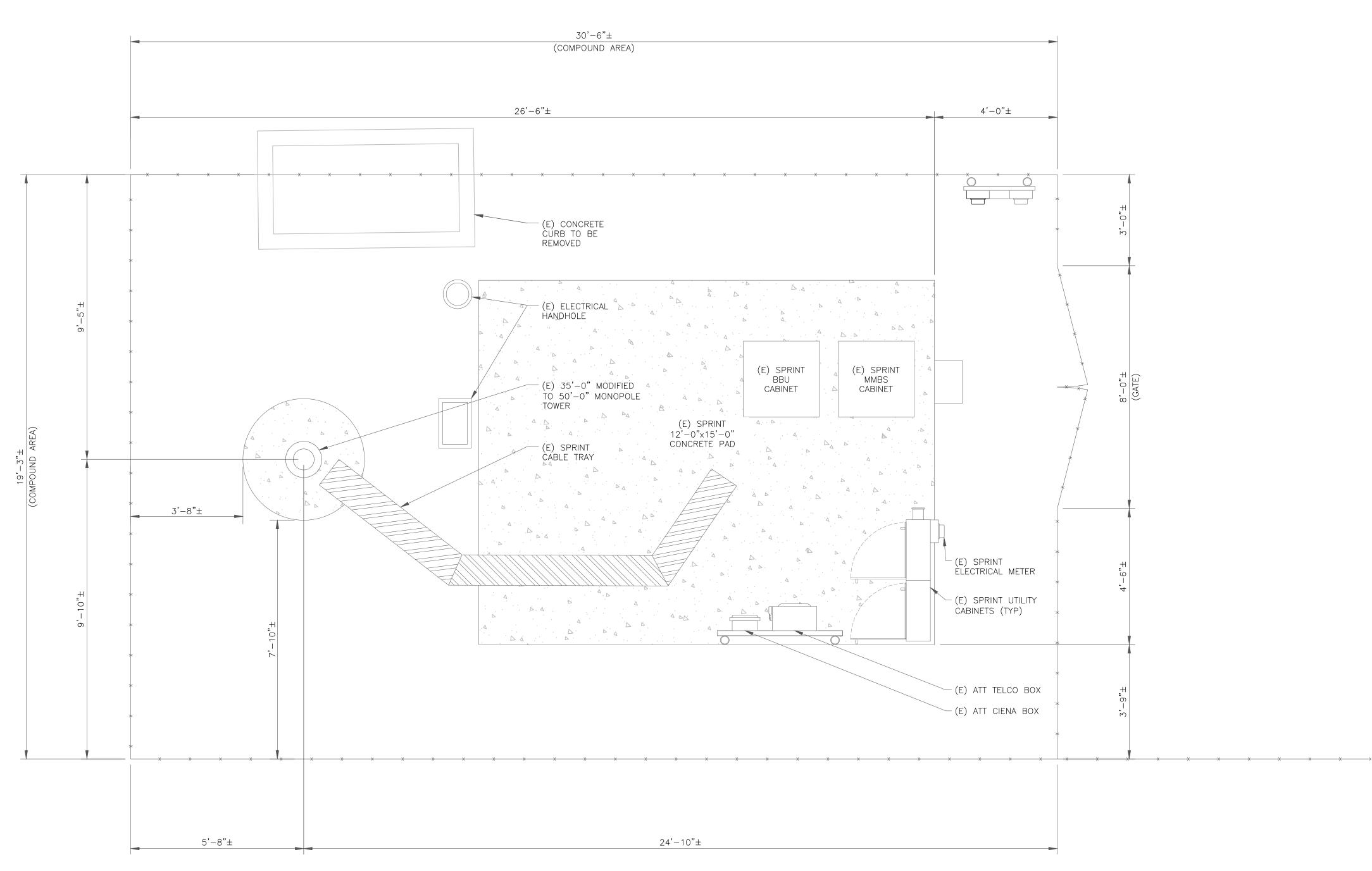
01/02/2

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R: REVISION:









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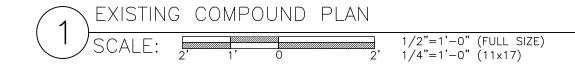
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6	06/30/23	GBP	CONSTRUCTION	JFJ		
7	01/02/24	TWH	CONSTRUCTION	JTC		



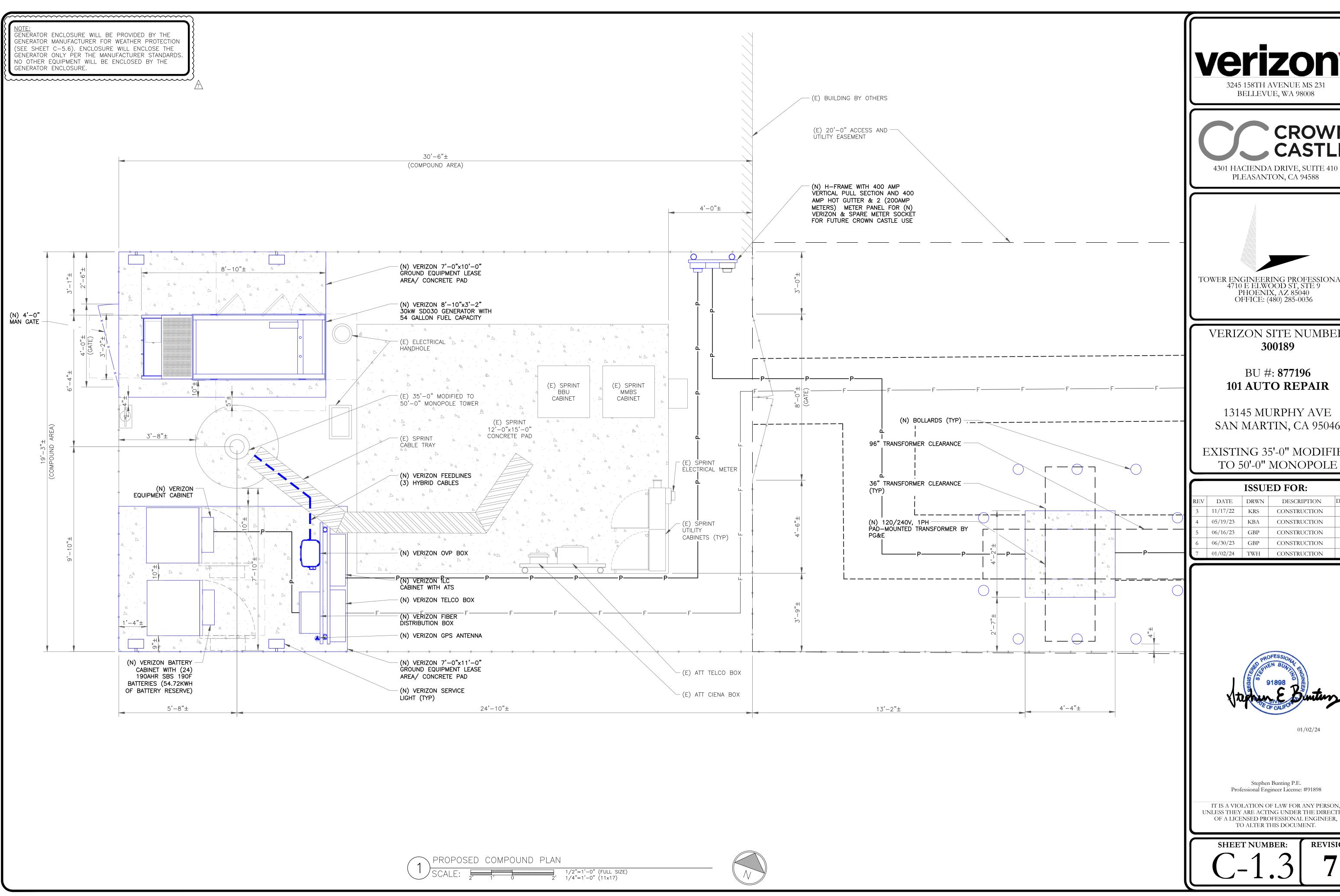
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	7	01/02/24	TWH	CONSTRUCTION	JTC	

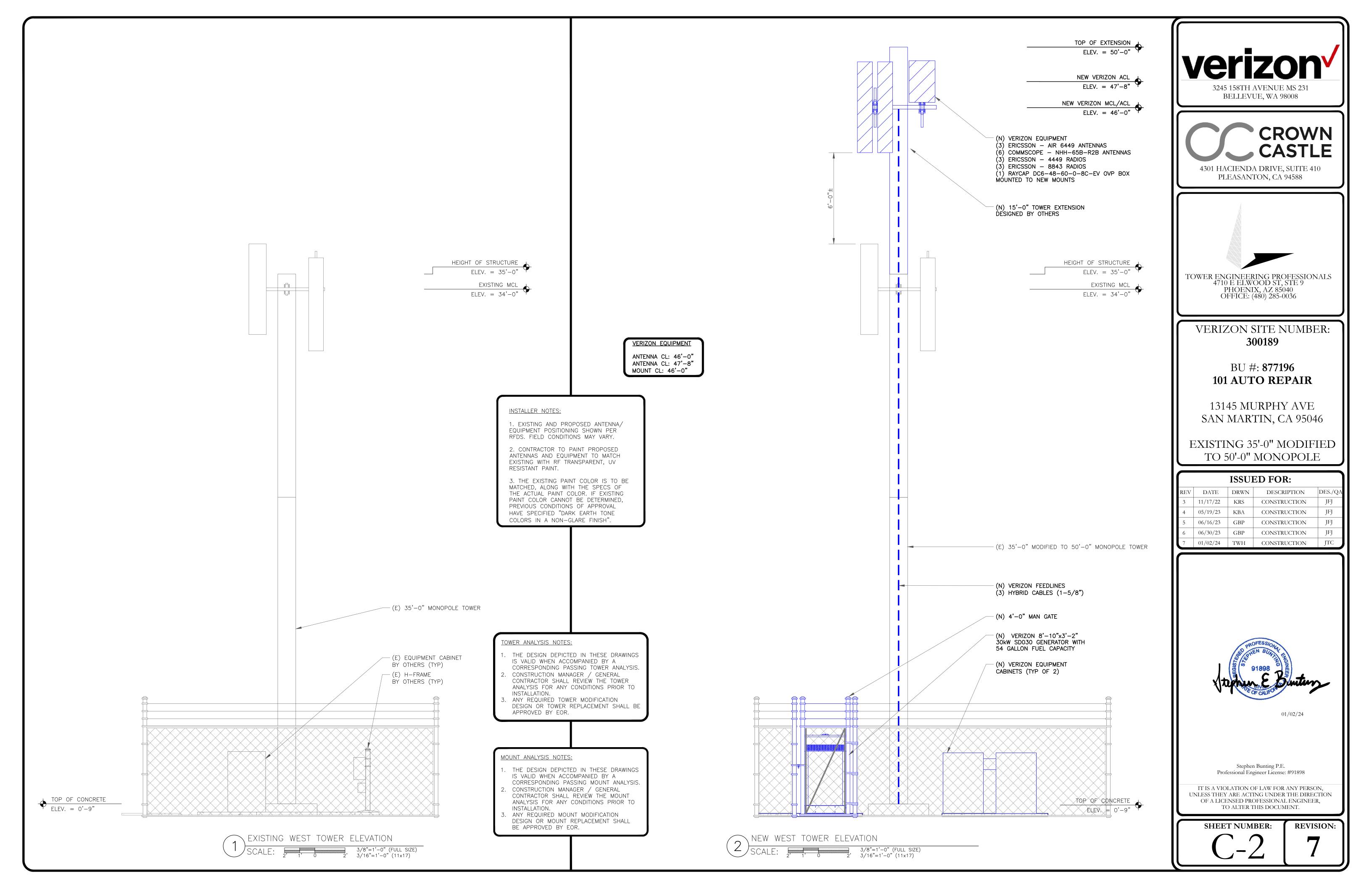


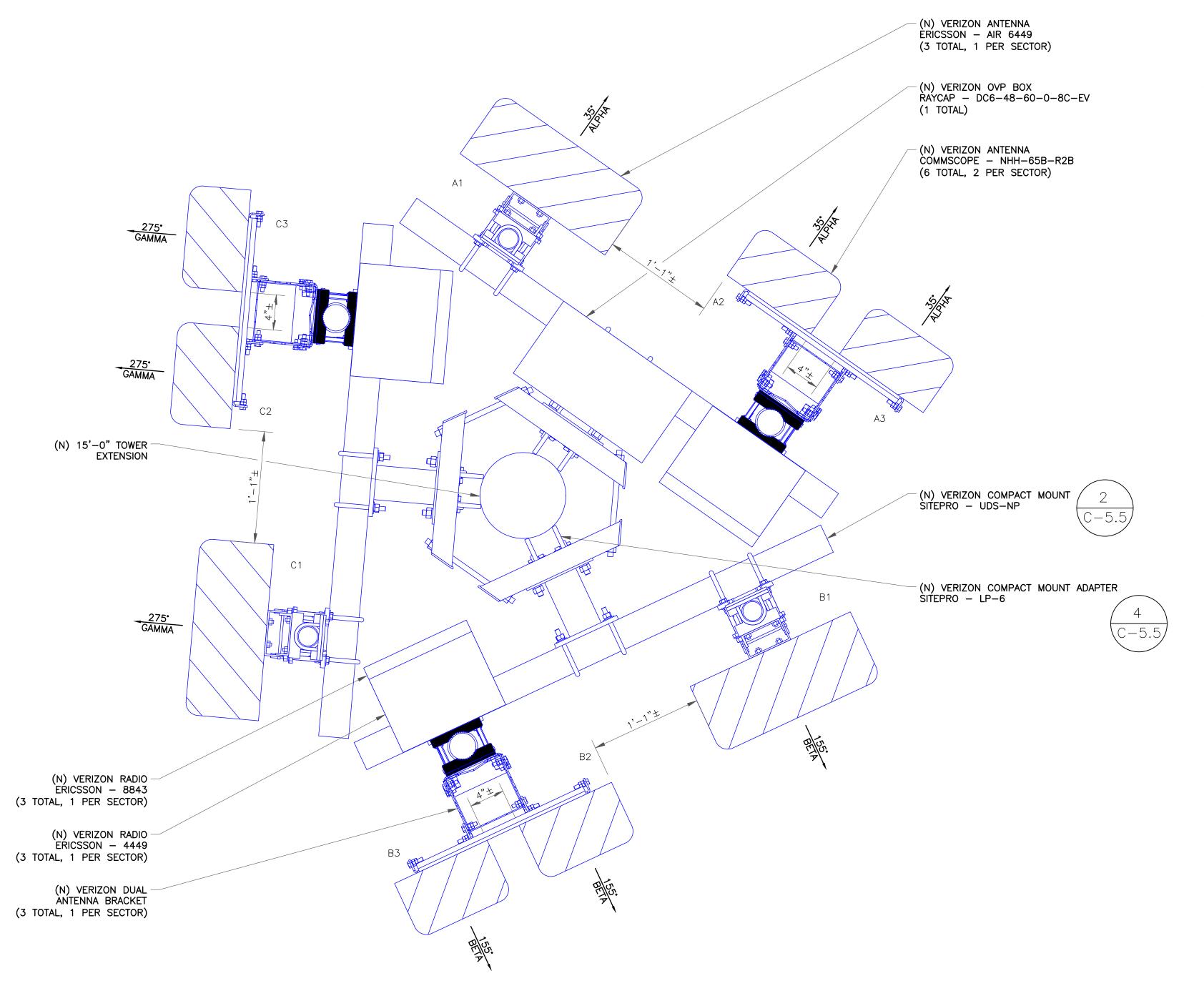
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SHEET NUMBER:





"LOOK UP" — CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY
CLIMB OR ANY COMPONENTS OF THE CLIMBING
FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE,
BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

NOTES:

- REFERENCE C-4 FOR FINAL EQUIPMENT SCHEDULE.
- 2. REFERENCE C-5.1 THRU C-5.5 FOR NEW EQUIPMENT SPECIFICATIONS.
- 3. CONTRACTOR TO VERIFY ALL ANTENNA TIP
 HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.
 4. TOWER DOES NOT HAVE CLIMBING FACILITIES.
 MANLIFT REQUIRED FOR ELEVATED WITH BE
- NEW EQUIPMENT TO BE PAINTED WITH RF TRANSPARENT, UV RESISTANT, OUTDOOR RATED PAINT TO MATCH EXISTING.
 THE EXISTING PAINT COLOR IS TO BE MATCHED,
- ALONG WITH THE SPECS OF THE ACTUAL PAINT COLOR. IF EXISTING PAINT COLOR CANNOT BE DETERMINED, PREVIOUS CONDITIONS OF APPROVAL HAVE SPECIFIED "DARK EARTH TONE COLORS IN A NON-GLARE FINISH"

MOUNT ANALYSIS NOTES:

- THE DESIGN DEPICTED IN THESE DRAWINGS
 IS VALID WHEN ACCOMPANIED BY A
 CORRESPONDING PASSING MOUNT ANALYSIS.
- 2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
- ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY EOR.



BELLEVUE, WA 98008



4301 HACIENDA DRIVE, SUITE 410 PLEASANTON, CA 94588



TOWER ENGINEERING PROFESSIONALS 4710 E ELWOOD ST, STE 9 PHOENIX, AZ 85040 OFFICE: (480) 285-0036

VERIZON SITE NUMBER: 300189

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01/02/2

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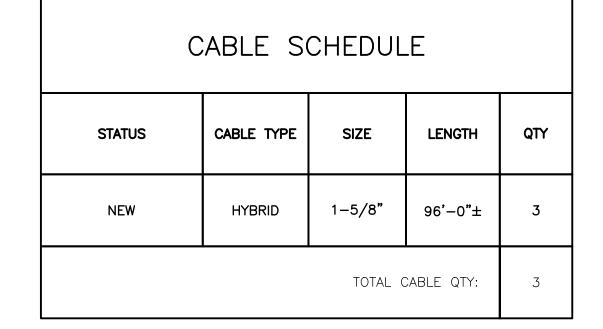
REVISION:

1) NEW ANTENNA PLAN

ZE)

ANTENNA/RRH SCHEDULE MECHANICAL DOWNTILTS ELECTRICAL DOWNTILTS ANTENNA MANUFACTURER ANTENNA CENTERLINE TOWER EQUIPMENT MANUFACTURER AZIMUTH TOWER EQUIPMENT QTY/MODEL SECTOR STATUS ANTENNA MODEL Α1 NEW AIR 6449 47'-8" 35° (1) DC6-48-60-0-8C-EV ERICSSON RAYCAP A2 NEW COMMSCOPE NHH-65B-R2B 35° (1) RADIO 4449 46'-0" ERICSSON 46'-0" A3 COMMSCOPE NHH-65B-R2B 35° (1) RADIO 8843 NEW ERICSSON В1 47'-8" 155° NEW AIR 6449 **ERICSSON** B2 NEW COMMSCOPE NHH-65B-R2B 46'-0" 155° (1) RADIO 4449 ERICSSON 46'-0" 155° (1) RADIO 8843 В3 COMMSCOPE NHH-65B-R2B NEW ERICSSON C1 47'-8" 275° NEW AIR 6449 **ERICSSON** 275° C2 NEW COMMSCOPE NHH-65B-R2B (1) RADIO 4449 46'-0" ERICSSON 275° C3 NEW COMMSCOPE NHH-65B-R2B 46'-0" (1) RADIO 8843 **ERICSSON**

NOTE - NEW ANTENNA/EQUIPMENT SHOWN IN BOLD









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01/02/2

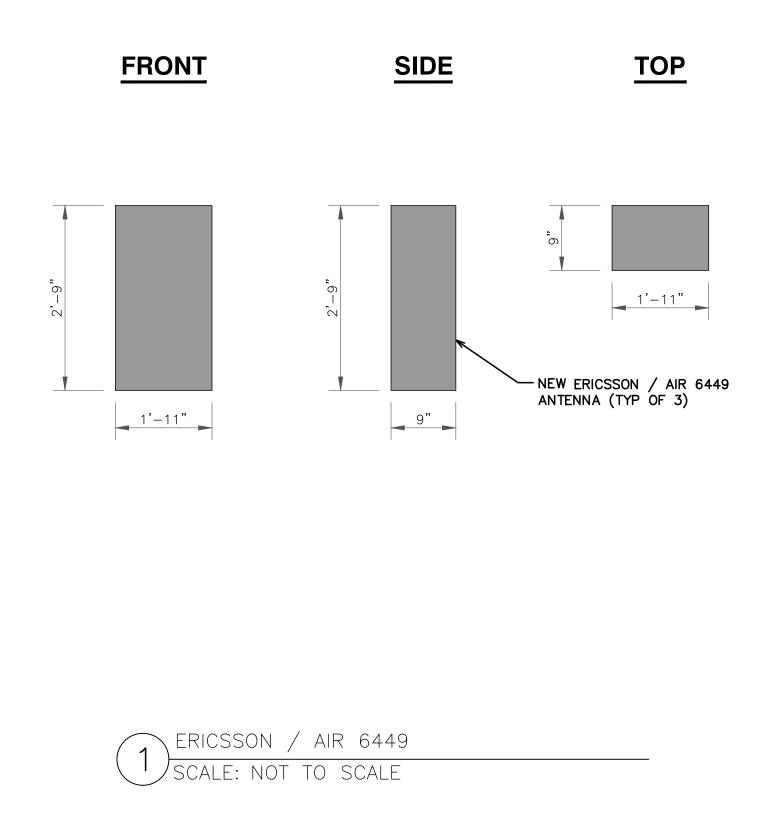
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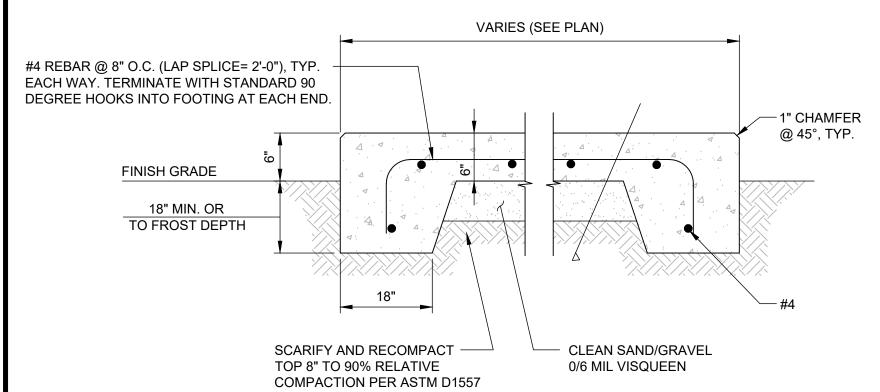
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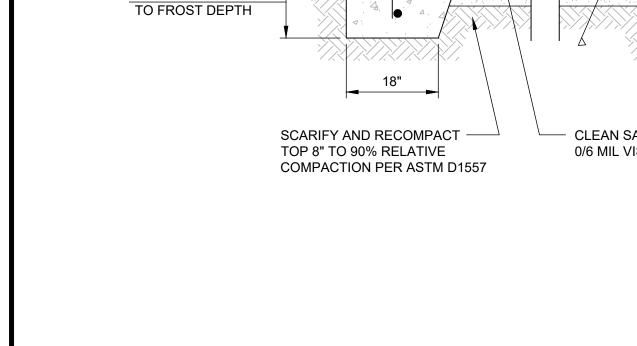
C-4

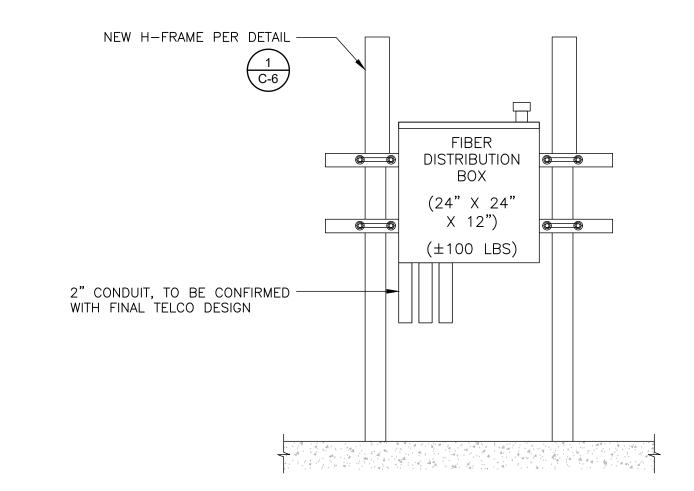
^{* -} CONTRACTOR TO REFERENCE MOST RECENT RFDS FOR MECHANICAL AND ELECTRICAL DOWNTILTS



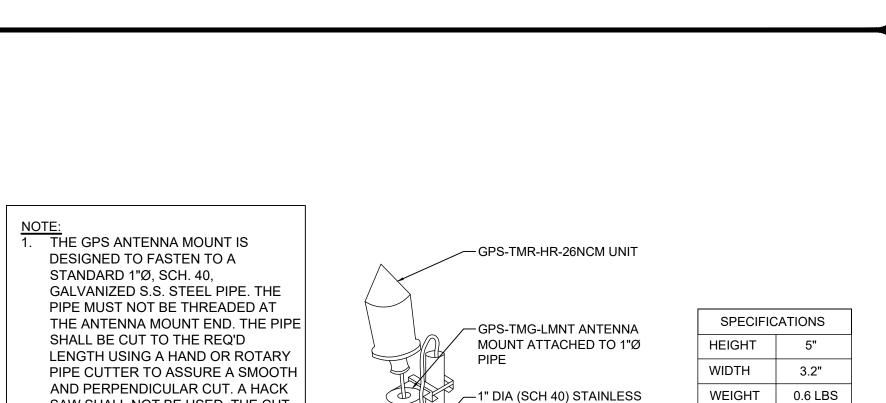


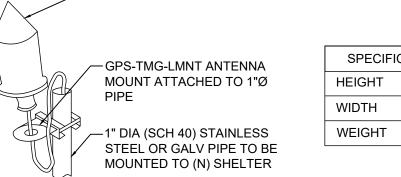
CONCRETE PAD SCALE: NOT TO SCALE SCALE: NOT TO SCALE

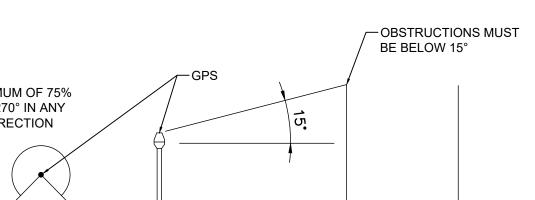




FIBER DISTRUBUTION BOX ON H-FRAME







NOTES:

HAVE A MINIMUM

ANOTHER PIPE/S

APPLICABLE.

MINIMUM OF 75% OR 270° IN ANY DIRECTION

SCALE: NOT TO SCALE

SAW SHALL NOT BE USED. THE CUT

ANTENNA IS MOUNTED SUCH THAT IT

IS WITHIN 2 DEGREES OF VERTICAL

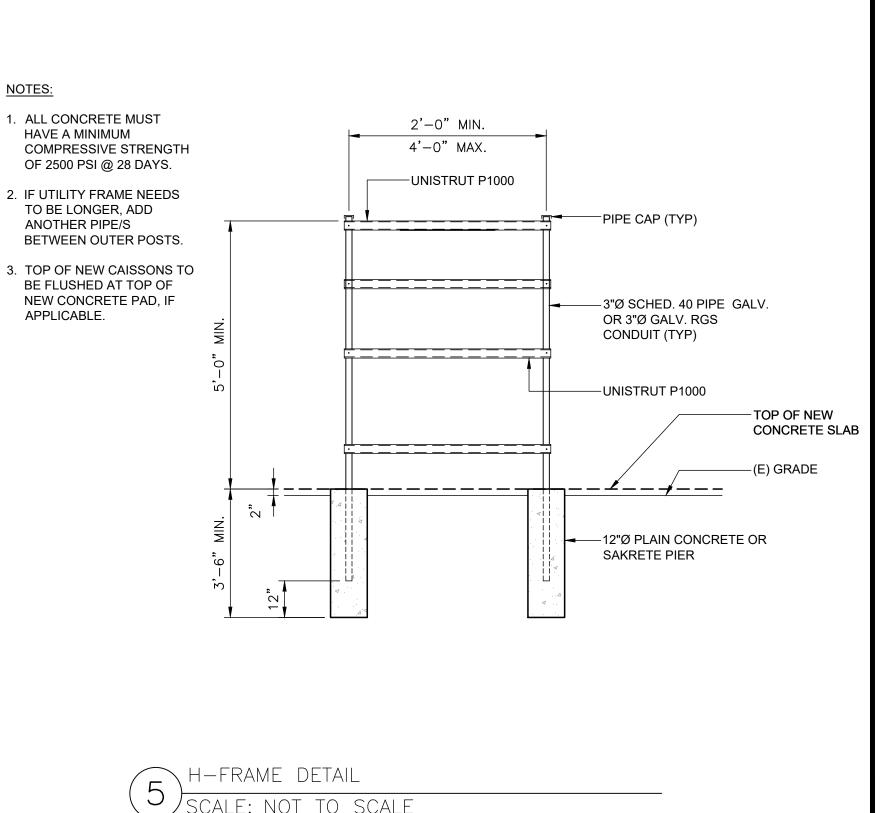
AND THE BASE OF THE ANTENNA IS

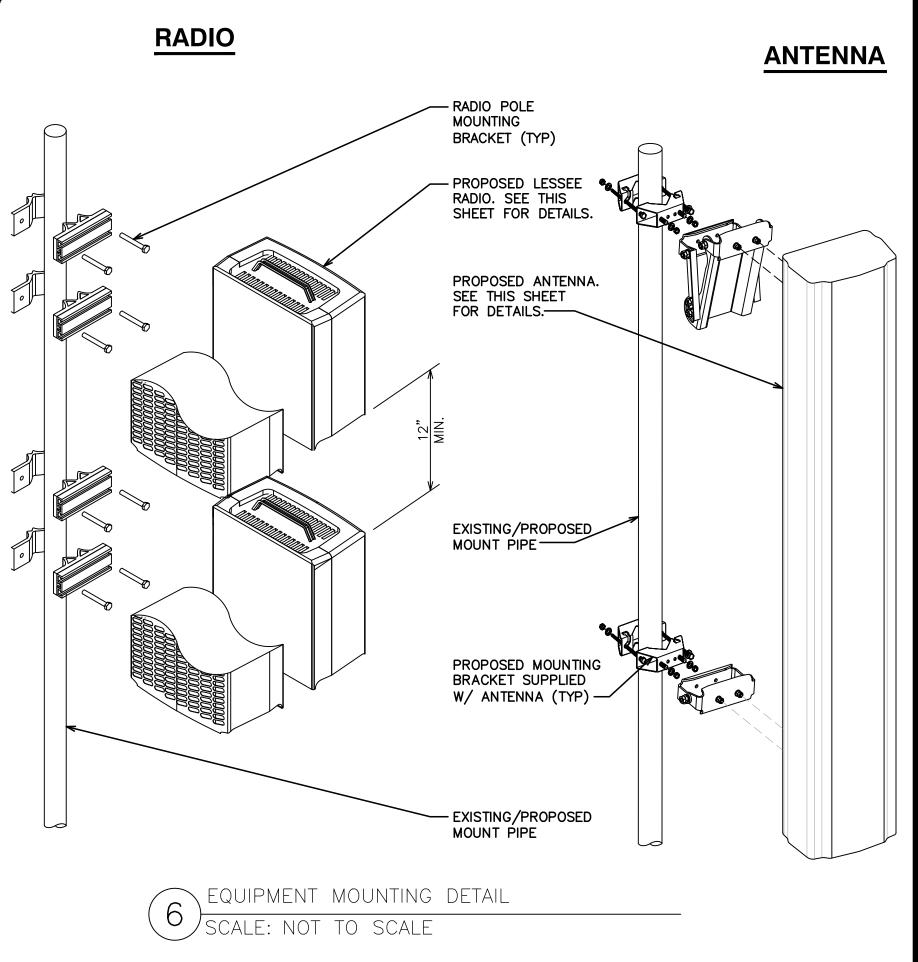
DO NOT SWEEP TEST GPS ANTENNA.

PIPE END SHALL BE DEBARRED.

IT IS CRITICAL THAT THE GPS

WITHIN 2° OF LEVEL.











VERIZON SITE NUMBER: 300189

> BU #: **877196 101 AUTO REPAIR**

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

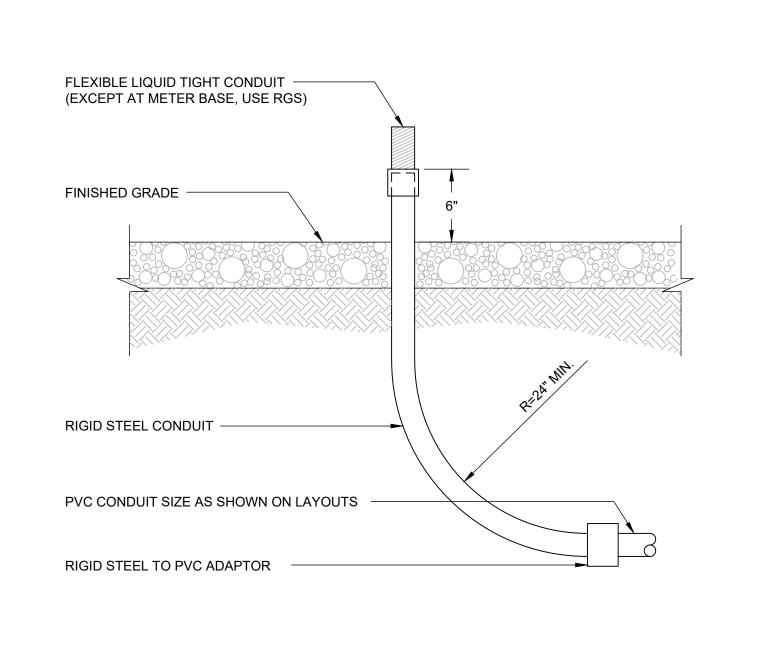
ISSUED FOR:					
REV	DATE	DRWN	DESCRIPTION	DES./QA	
3	11/17/22	KRS	CONSTRUCTION	JFJ	
4	05/19/23	KBA	CONSTRUCTION	JFJ	
5	06/16/23	GBP	CONSTRUCTION	JFJ	
6	06/30/23	GBP	CONSTRUCTION	JFJ	
7	01/02/24	TWH	CONSTRUCTION	JTC	

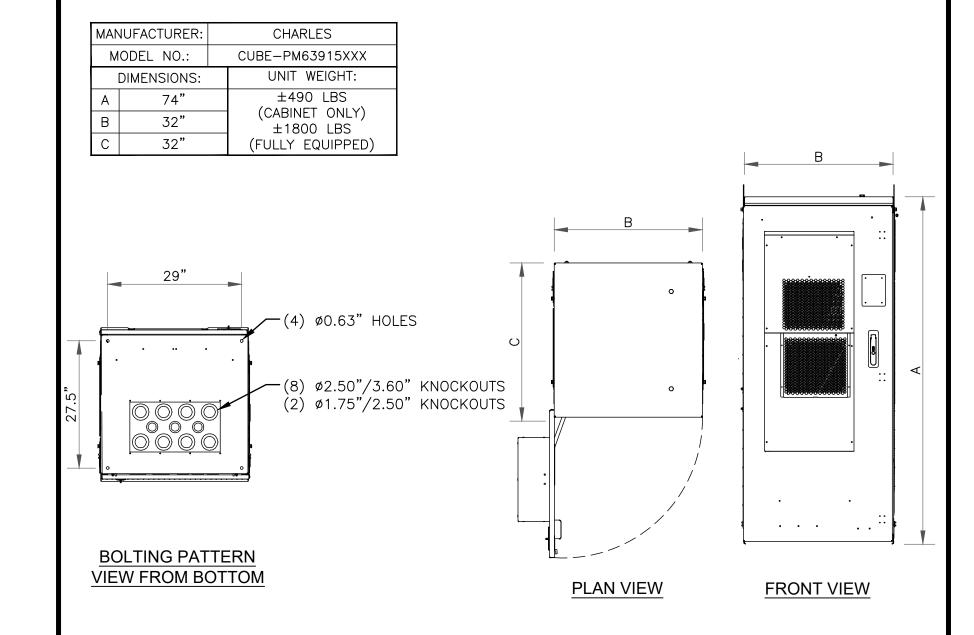


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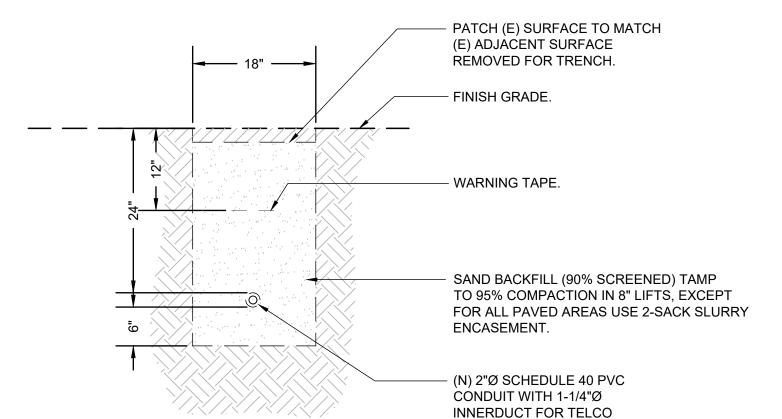
SHEET NUMBER:





CHARLES CUBE PM63915XXX CABINET

SCALE: NOT TO SCALE

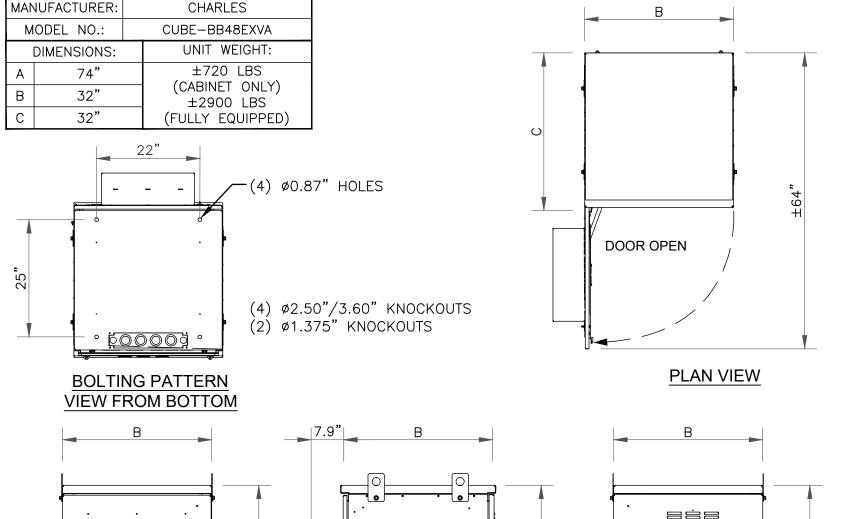


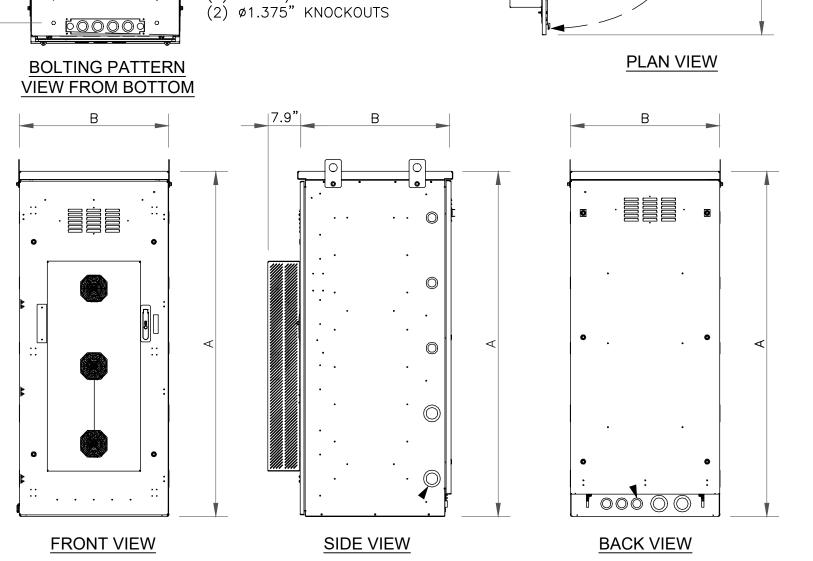
NOTES:
1. ALL DIMENSIONS SHOWN ARE MINIMUM CLEAR.
2. ELECTRICAL CONTRACTOR TO INCLUDE REMOVAL OF SPOILS.

TELECO TRENCH DETAIL

SCALE: NOT TO SCALE

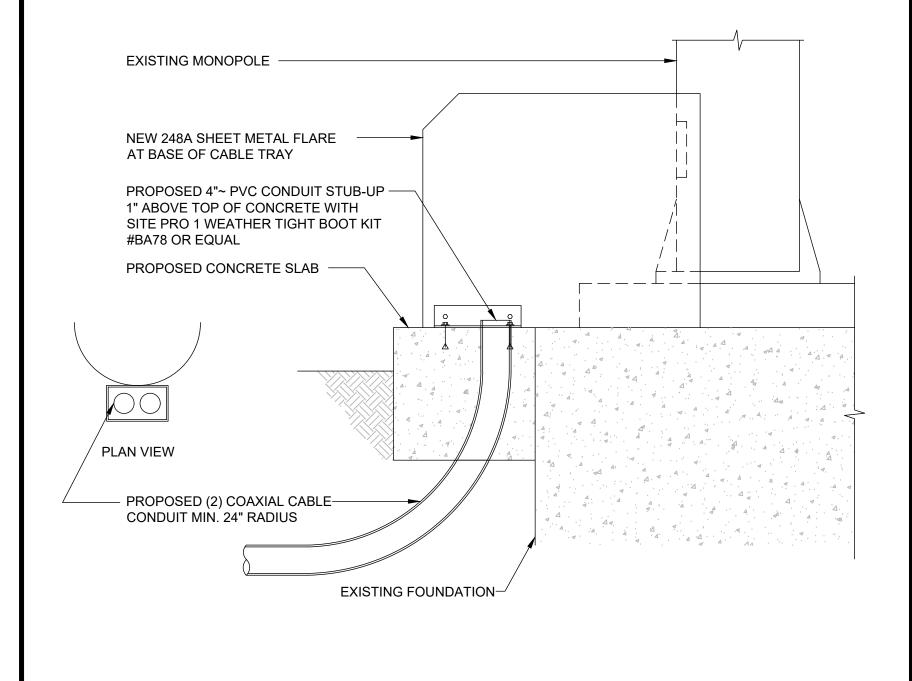
CONDUIT SNUB-UP DETAIL
SCALE: NOT TO SCALE



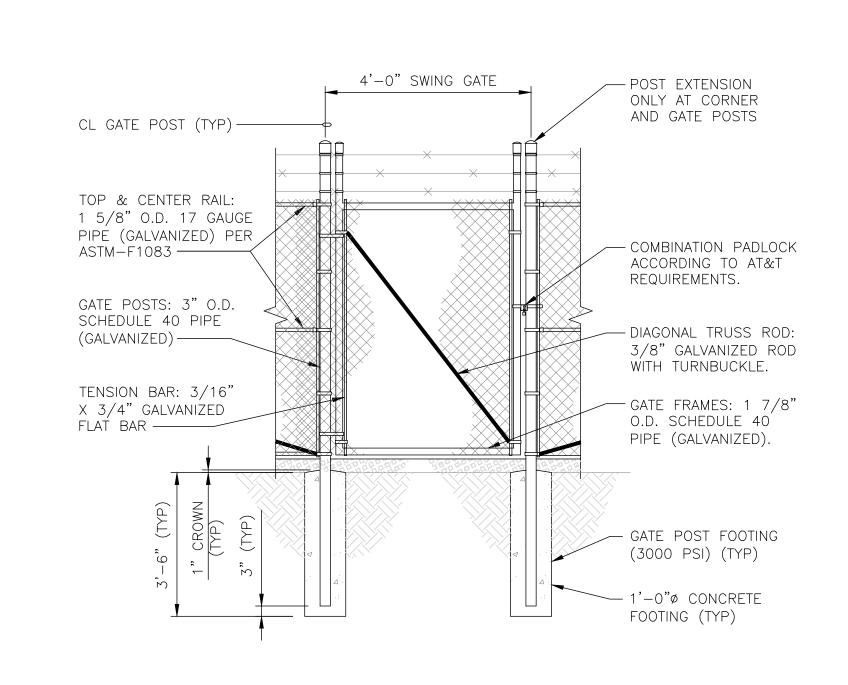


CHARLES CUBE BB48EXVA

SCALE: NOT TO SCALE







6 TYPICAL MAN GATE DETAIL SCALE: NOT TO SCALE







VERIZON SITE NUMBER: 300189

BU #: **877196 101 AUTO REPAIR**

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

ISSUED FOR:					
REV	DATE	DRWN	DESCRIPTION	DES./QA	
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5	06/16/23	GBP	CONSTRUCTION	JFJ	
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7	01/02/24	TWH	CONSTRUCTION	JTC	

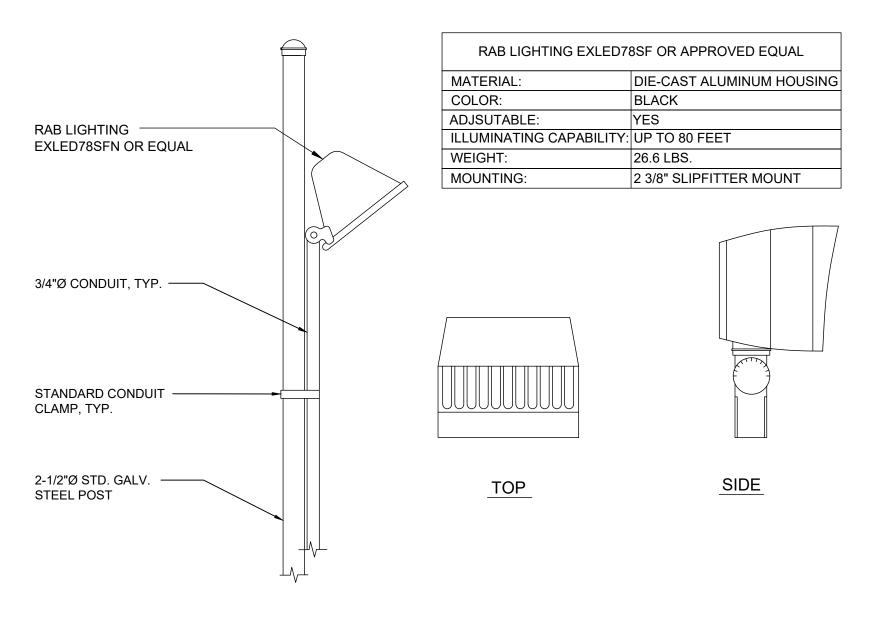


01/02/24

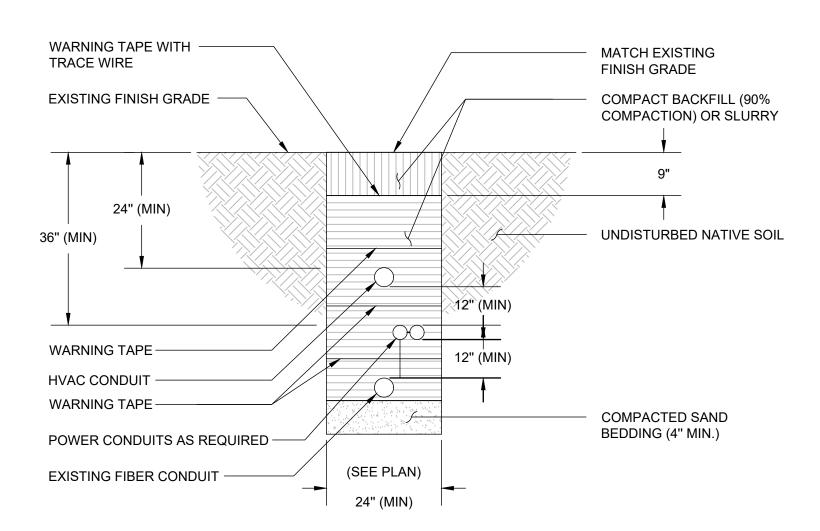
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SHEET NUMBER:







TRENCH DETAIL SCALE: NOT TO SCALE

AA-CL-T-3S PTLC Series

ATS Power Transfer Load Center with an Integrated Telco Cabinet

The AA-CL-T-3S is an outdoor PTLC that features separate The AA-CL-T-3S Series also features a Square D load AC and Telco chambers. The AC chamber includes a 42k AIC main disconnect breaker for normal (utility) power. Series 300 automatic transfer switch connects to a permanent or temporary alternative power source. Mechanically interlocked 10 kAIC main disconnect breakers allow manual transfer between the permanent and



center; Strikesorb® surge suppression; a utility voltage sensing relay; a Cam-Lok style engine generator connector When the normal power source is not available, an ASCO* panel, mounted on the left or right; and a ground fault circuit interrupter (GFCI) circuit breaker wired to a duplex outlet in

> A double throw, single solenoid transfer mechanism and microprocessor controls in the ASCO Series 300 automatic transfer switch adjust to input from the primary power source or generator, depending on site conditions. The robust ASCO switch is UL 1008 Listed and complies with NFPA 110 for emergency and standby power systems.

To protect connected equipment, the AA-CL-3S PTLC safeguards critical loads from transients and load transfer spikes using Strikesorb® surge suppression. Strikesorb incorporates state of the art technological developments that provide superior protection characteristics, which remain unchanged throughout its long service life. It is designed to withstand repeated surges providing cost-effective and maintenance-free operation in demanding environments. Critical loads are never left unprotected, as Strikesorb will operate to a short circuit and trip the main disconnect breaker in the event of a long duration, potentially catastrophic overvoltage event.

A 42-position Square D load center provides the flexibility to distribute 200 amp, 240/120 single-phase or 208/120 threephase power to a variety of site equipment.

The Telco chamber has a plywood backboard with three knockouts for cable entry centered above the backboard. Included in the Telco chamber is a 20-amp duplex receptacle fed from a GFCI circuit breaker (located in the upper, AC

For more information about the AA-CL-T-3S Series panels, or other PTLC models, e-mail Intersect today at

Intersect, Inc.

solutions@intersectinc.com.

Quality products. Premium customer care. Integrated solutions.

Series Number Product Configuration AA1220042-3R-CL-T-L 240/120; 1Ø; 200 amp; 42 kAlC; utility and permanent or temporal power sources (3-sources); left-mount Cam Lok-style engine gene AA1220042-3R-CL-T-R 240/120; 1Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); right-mount Cam Lok-style engine ge AA3320042-3R-CL-T-L 208/120; 3Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); left-mount Cam-Lok style engine gene AA3320042-3R-CL-T-R 208/120; 3Ø; 200 amp; 42 kAIC; utility and permanent or temporary Option Number Description Programmable Engine Exerciser - seven-day electronic time switch provides automatic weekly or bi-weekly testing of the engine general set either with or without load and offers relay contacts for remote s Other service voltages and amperages are available. Custom panels can be designed to your performance spec

General Data

Load Center Overall enclosure weight and dimensions Load center type Varies by service voltage, amperage, and enclosure type. Request specific panel Circuit breaker positions drawings for this product information. AC cabinet dimensions (H x W x D) Circuit breaker type Square D bolt-on or plug-in branch devices

Telco Cabinet

Duplex receptacle

Manual Transfer Switch

Square D input breaker

200 amps

Telco cabinet dimensions (H x W x D) Enclosure type 0.008 aluminum construction Service voltage

15 amp GFCI circuit breaker120 V 200 amp240/120 Terminal bar 208/120 Insulated Voltage sensing relay
• Senses "utility" or normal source voltage Ground connection AC service connection Installed on "line" side of main disconner Two, 2-inch nonmetallic conduits

UL certification UL 67 listed panel Service entrance rated

Cam-Lok Style Panel Micrin or Intersect ICL Color coded Cam-Lok Connectors Green — Ground
White — Neutral Red — Line 2 UL Certification

All specifications subject to change without notice. ASCO® is a registered trademark of ASCO Power Technologies. Strikesorb® is a registered trademark of Raycap Corporation. © Intersect, Inc. 2007-2011. Rev 050611.

Source circuit breaker Permanent & alternative emergency power Withstand current rating (WCR) 10,000 amps

WARNING

Radio frequency fields at this site exceed the FCC rules for human

Failure to obey all posted signs and site

guidelines for working in radio frequency

environments could result in serious injury.

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307(b)

exposure.

Automatic Transfer Switch

Power transfer mechanism · Single solenoid operation Microprocessor controller Double throw operation ngine starting contact

ASCO — 300L Series

Connect signal wires to auto-start engine generator set ource circuit breaker · Normal (utility power) 200 amp, 60 Hz

ngine exerciser · Built-in, 20-minute exerciser See Option 11BG in table for further details ithstand current rating (WCR)

42,000 amps UL certification & other safety compliances • UL 1008, standard for transfer switch equipment CSA standard C22.2 for automatic transfer

 NFPA 110 for emergency and standby power NEC Articles 700, 701, and 702 Suppression Technology

Technology type Strikesorb 40-A¹, 120 V modules Surge Protection Levels Response time

Maximum surge current Surge current, imax (8/20) NEMA LS-1: • Lightning current, limp (10/350) IEC 61643-1:

Let through voltage level For surge current 10 kA (8/20) IEEE C62.41-1: 435 V - actual surge current through Strikesorb Long duration surge performance 500 A square waveform 2 ms IEEE C62.11:

Voltage protection rating (VPR) 600 V per UL 1449 3rd edition

Type
• Mechanically interlocked breakers for Short Circuit Current Rating Tested for safe installation behind a 4000 A permanent or alternative power source

• Enables manual transfer between perma-Class L time delay fuse at available fault current nent and temporary power source (10 kA at 240 VAC)

· 3-cycle testing at 85 kA Standards Compliance • IEEE C62.41, IEEE C62,45, IEEE C62.11,

 IEC 61643-1 ed 2:2005, EN 61642-A11:2005, IEC 61643-12

Intersect, Inc.

P.O. Box 753 — Liberty Lake WA 99019 — USA Phone: 509.255.9570 - Fax: 509.255.6034 www.intersectinc.com

> 13145 MURPHY AVE SAN MARTIN, CA 95046

| verizon

BELLEVUE, WA 98008

4301 HACIENDA DRIVE, SUITE 410

PLEASANTON, CA 94588

TOWER ENGINEERING PROFESSIONALS

4710 E ELWOOD ST, STE 9

PHOENIX, AZ 85040

OFFICE: (480) 285-0036

VERIZON SITE NUMBER:

300189

BU #: **877196**

101 AUTO REPAIR

CROWN CASTLE

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

ISSUED FOR: REV DATE DRWN DESCRIPTION KRS CONSTRUCTION 05/19/23 KBA CONSTRUCTION CONSTRUCTION 06/16/23 GBP 06/30/23 GBP CONSTRUCTION 01/02/24 TWH CONSTRUCTION

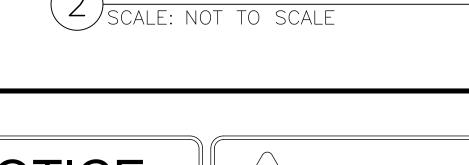


REVISION:

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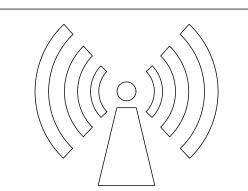
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SHEET NUMBER:



AA-CL-T-3S PTLC DETAILS





Radio frequency fields beyond this point may exceed the FCC general public exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307(b)

CAUTION



Beyond this point: Radio frequency fields at this site may exceed FCC rules for human exposure.

For your safety, obey all posted signs and site guidelines for working in radio frequency environments.

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307(b)

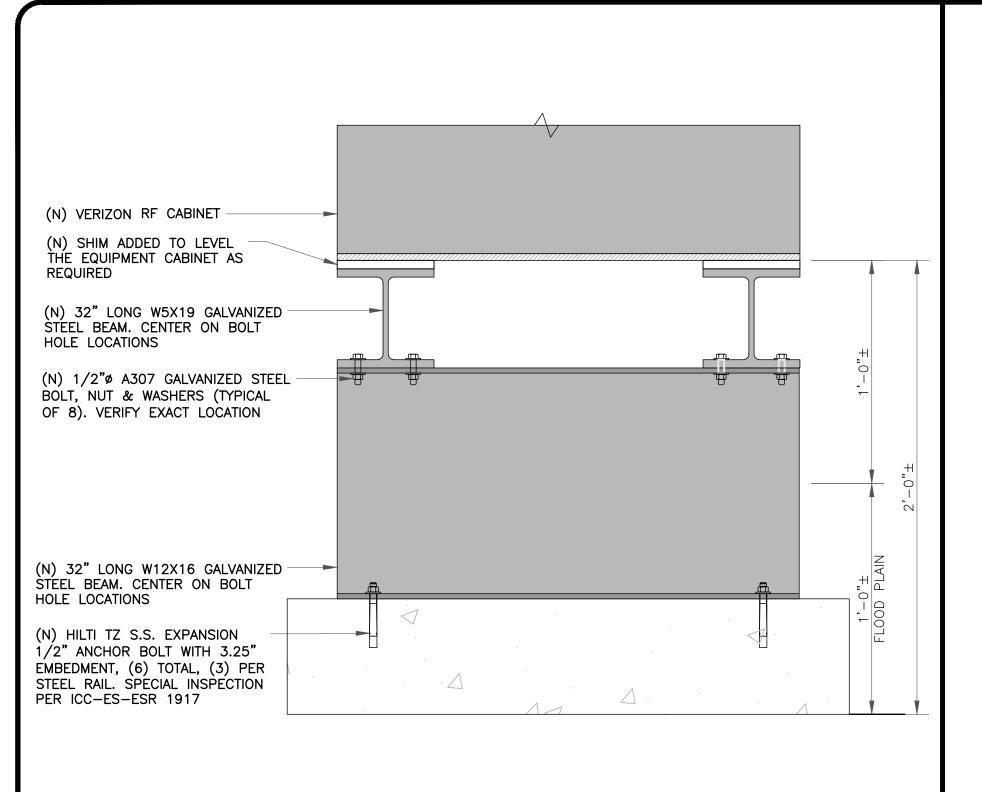


HAZARDOUS MATERIAL STORAGE AREA

WARNING DANGER THIS FACILITY

CONTAINS CORROSIVE LIQUID TOXIC LIQUID CLASS 1 WATER REACTIVE LIQUID

SIGNAGE DETAIL SCALE: NOT TO SCALE



RF CABINET MOUNTING

SCALE: NOT TO SCALE

(N) VERIZON GENERATOR

REQUIRED

HOLE LOCATIONS

HOLE LOCATIONS

(N) SHIM ADDED TO LEVEL $\overline{}$ THE EQUIPMENT CABINET AS

(N) 81" LONG W5X19 GALVANIZED STEEL BEAM. CENTER ON BOLT

(N) 3/8"ø A307 GALVANIZED STEEL BOLT, NUT & WASHERS (TYPICAL OF 8). VERIFY EXACT LOCATION

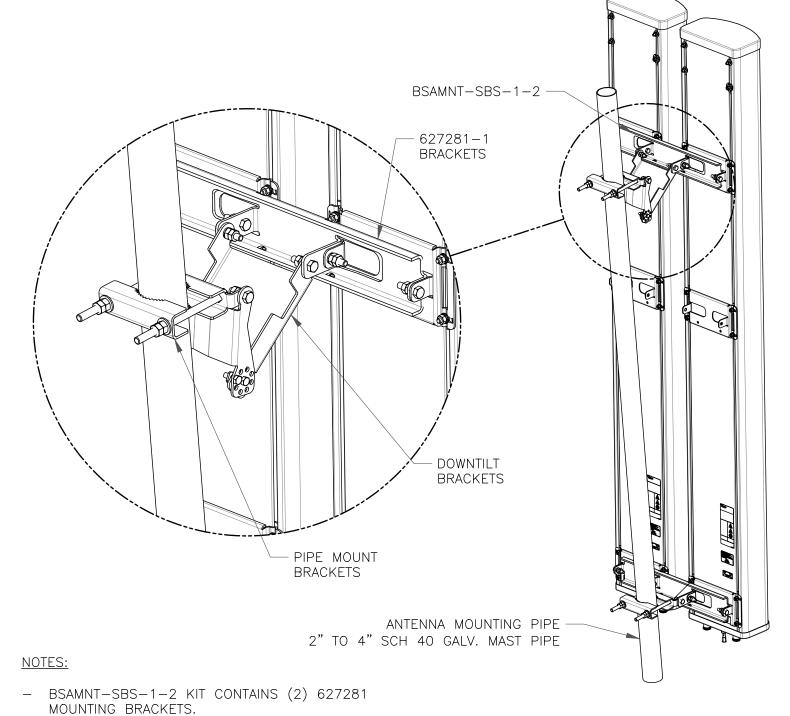
(N) 31" LONG W12X16 GALVANIZED — STEEL BEAM. CENTER ON BOLT

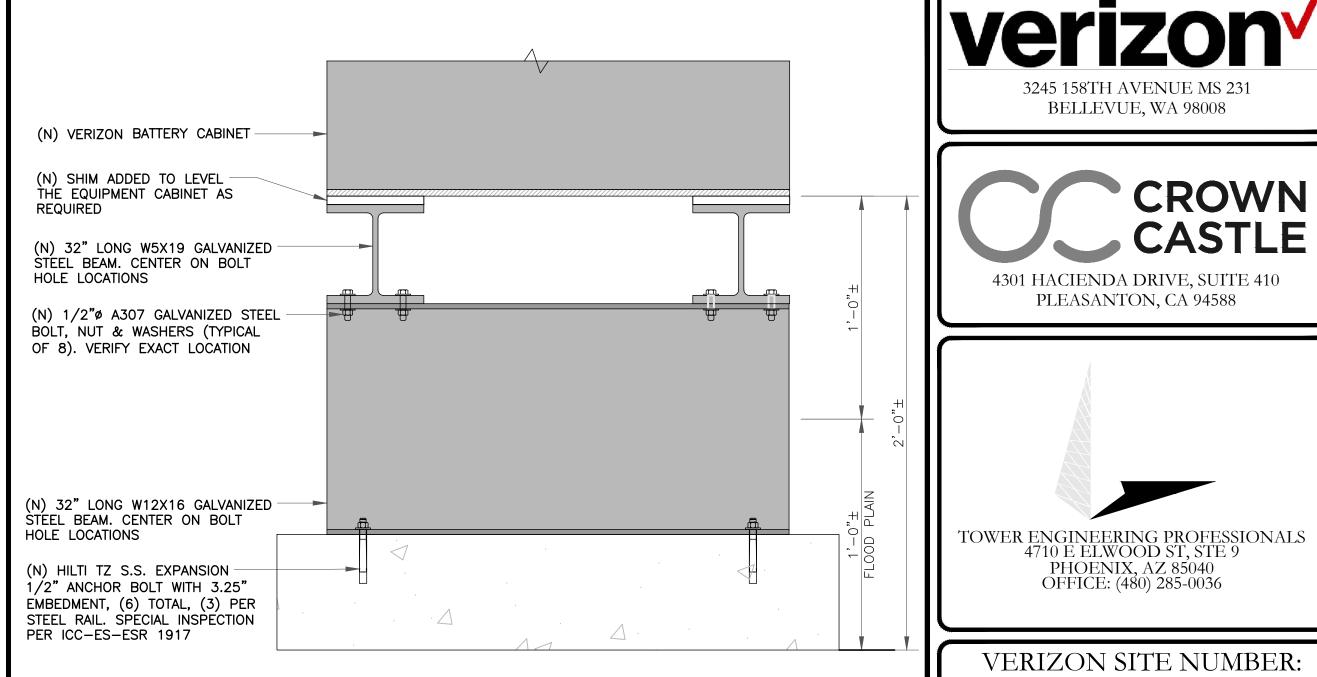
(N) HILTI TZ S.S. EXPANSION 1/2" ANCHOR BOLT WITH 3.25"

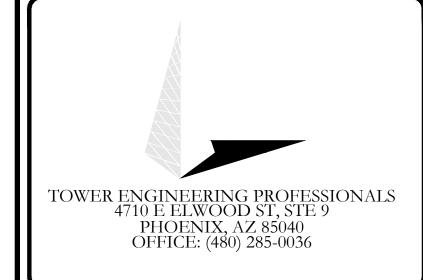
PER ICC-ES-ESR 1917

EMBEDMENT, (6) TOTAL, (3) PER

STEEL RAIL. SPECIAL INSPECTION







BELLEVUE, WA 98008

4301 HACIENDA DRIVE, SUITE 410

PLEASANTON, CA 94588

CROWN

VERIZON SITE NUMBER: 300189

> BU #: **877196** 101 AUTO REPAIR

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

REV	DATE	DRWN	DESCRIPTION	DES./Q.
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7	01/02/24	TWH	CONSTRUCTION	JTC



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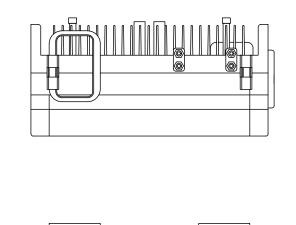
REVISION:

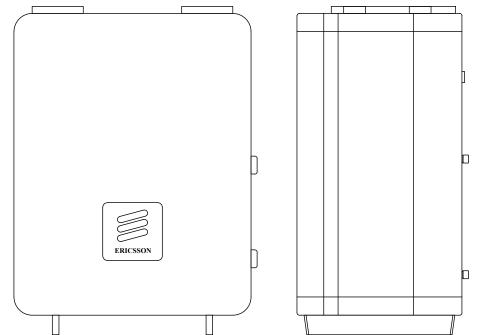
COMMSCOPE - BSAMNT-SBS-1-2

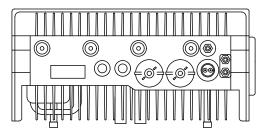
SCALE: NOT TO SCALE

- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m.

PER MANUFACTURE'S RECOMMENDATIONS.

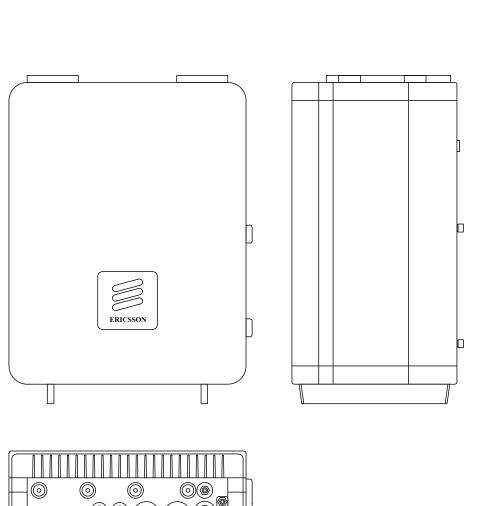


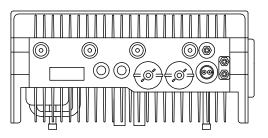




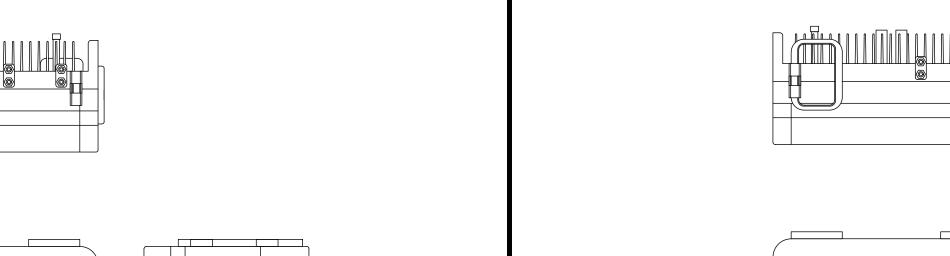
ERICSSON - RADIO 4449 WEIGHT: 70.50 LBS SIZE (HxWxD): 17.90x13.20x9.44 IN.

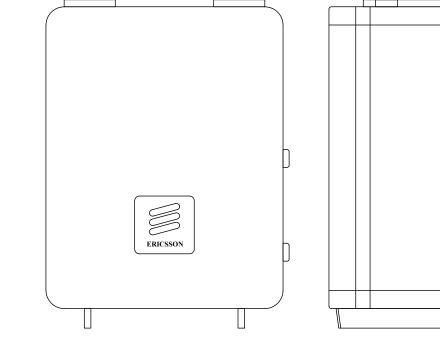
(5) RADIO 4449

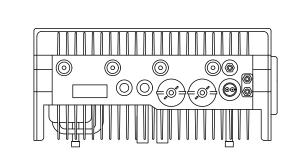




GENERATOR MOUNTING SCALE: NOT TO SCALE





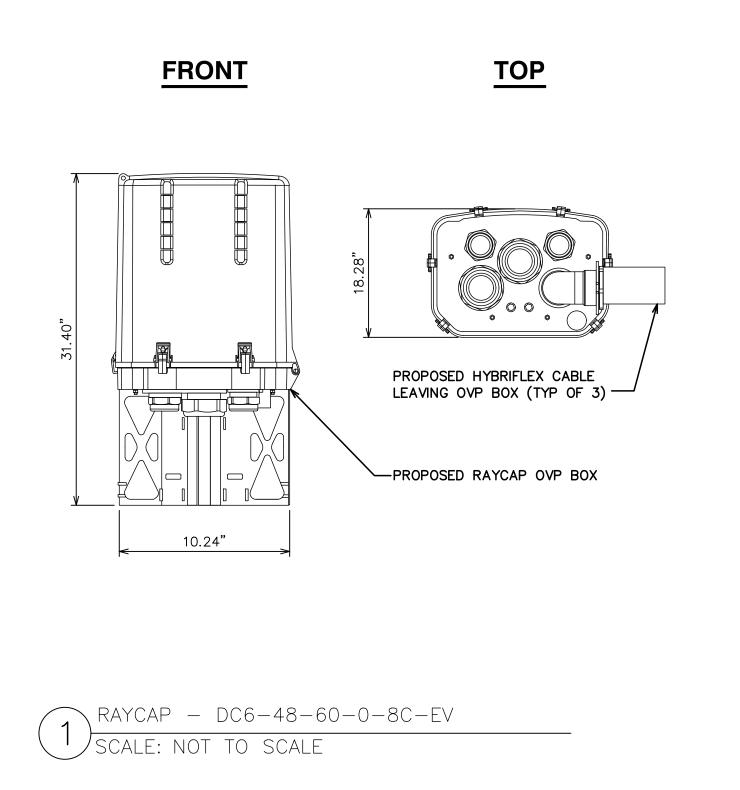


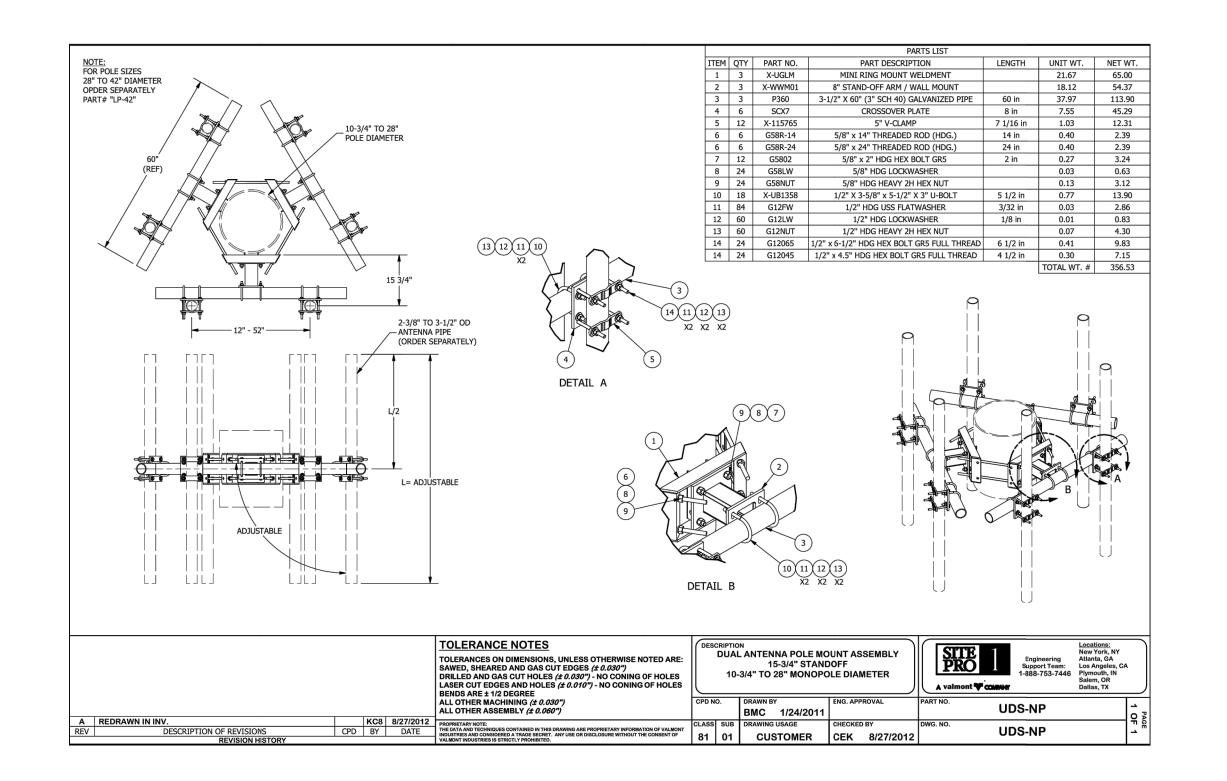
BATTERY CABINET MOUNTING

SCALE: NOT TO SCALE

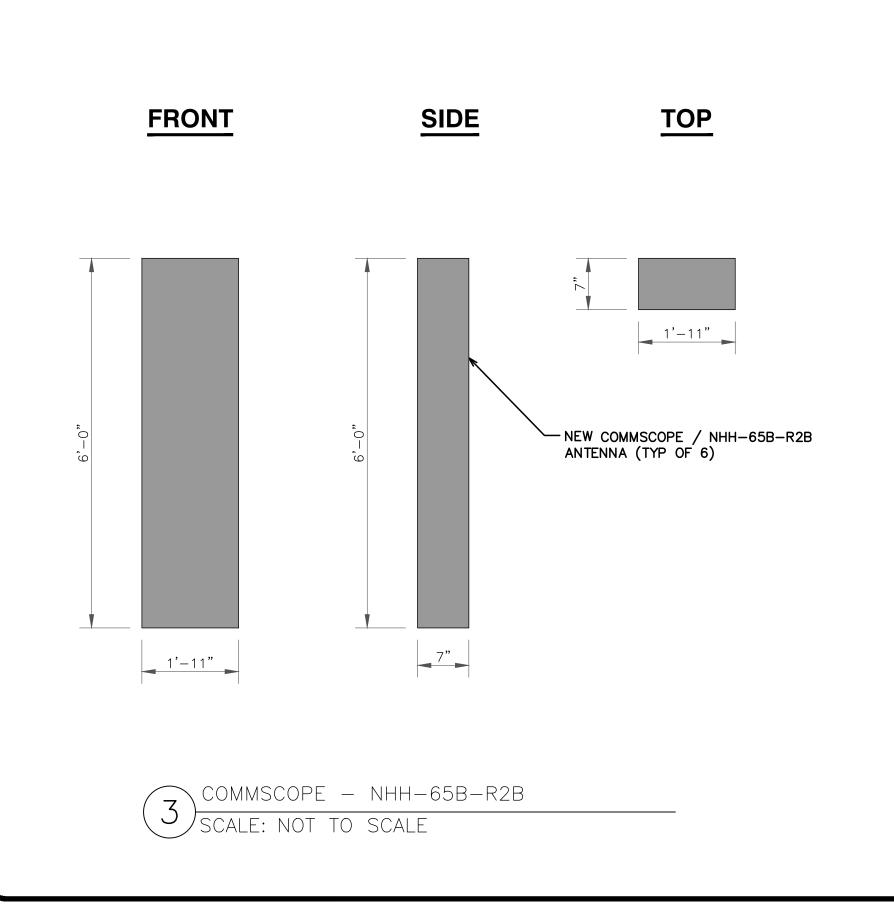
ERICSSON - RADIO 8843 WEIGHT: 71.9 LBS SIZE (HxWxD): 15.00x13.20x10.90 IN.

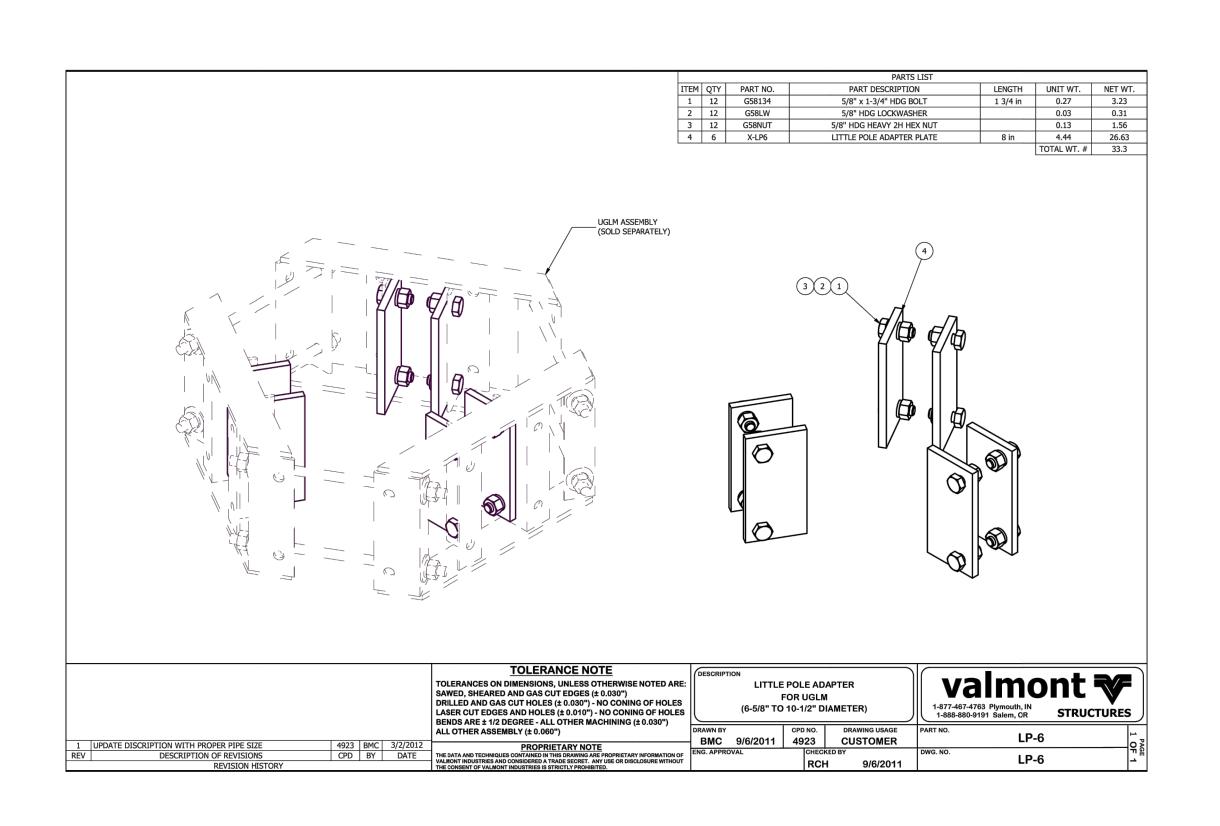
(6) SCALE: NOT TO SCALE





2 COMPACT MOUNT DETAIL
SCALE: NOT TO SCALE





COMPACT MOUNT ADAPTER DETAIL

SCALE: NOT TO SCALE

Verizon

3245 158TH AVENUE MS 231
BELLEVUE, WA 98008





VERIZON SITE NUMBER: 300189

BU #: **877196 101 AUTO REPAIR**

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

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01/02/2

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SHEET NUMBER:

ONLY PER THE MANUFACTURER STANDARDS.

THE GENERATOR ENCLOSURE.

NO OTHER EQUIPMENT WILL BE ENCLOSED E

Image used for illustration purposes only

SD030 | 2.2L | 30 kW

STANDARD FEATURES

ENGINE SYSTEM

Oil Drain Extension

Air Cleaner

Fan Guard

 2/3 Pitch Stainless Steel Flexible Exhaust Connection Skewed Stator Factory Filled Oil and Coolant Brushless Excitation Sealed Bearing

 Radiator Duct Adapter (Open Set Only) Critical Silencer (Enclosed Unit Only) Engine Coolant Heater

Fuel System

 Fuel Lockoff Solenoid Primary Fuel Filter

Electrical System

Battery Cables

Battery Tray

Battery Charging Alternator

Cooling System Separation of Circuits - High/Low Voltage Separation of Circuits - Multiple Breakers Closed Coolant Recovery System Wrapped Exhaust Piping UV/Ozone Resistant Hoses

 Factory-Installed Radiator Radiator Drain Extension • 50/50 Ethylene Glycol Antifreeze

 Standard Factory Testing 2 Year Limited Warranty (Standby Rated Units) 1 Year Limited Warranty (Prime Rated Units) Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

ALTERNATOR SYSTEM

Class H Insulation Material

Rotor Dynamically Spin Balanced

Internal Genset Vibration Isolation

· Audible Alarms and Shutdowns

• E-Stop (Red Mushroom-Type)

Predictive Maintenance Algorithm

NFPA110 Level I and II (Programmable)

Customizable Alarms, Warnings, and Events

Password Parameter Adjustment Protection

• 0.2 msec High Speed Remote Trending

Alarm Information Automatically Annunciated

Not in Auto (Flashing Light)

Auto/Off/Manual Switch

Modbus[®] Protocol

Single Point Ground

on the Display

Power Output (kW)

All Phase Currents

• 16 Channel Remote Trending

Sealed Boards

Full Load Capacity Alternator

Protective Thermal Switch

GENERATOR SET

Amortisseur Winding (3-Phase Only)

UL2200 GENprotect[™]

ENCLOSURE (If Selected)

 Rust-Proof Fasteners with Nylon Washers to High Performance Sound-Absorbing Material

GENERAC INDUSTRIAL

(Sound Attenuation Enclosures) Gasketed Doors Stamped Air-Intake Louvers

 Upward Facing Discharge Hoods (Radiator and Exhaust) Stainless Steel Lift Off Door Hinges Stainless Steel Lockable Handles

RhinoCoat[™] - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)

 UL 142/ULC S601 Double Wall Normal and Emergency Vents Sloped Top

 Sloped Bottom Factory Pressure Tested Rupture Basin Alarm Fuel Level

 Check Valve In Supply and Return Lines RhinoCoat™ - Textured Polyester Powder Coat Paint Stainless Steel Hardware

ENGINE SYSTEM Coolant Heater Isolation Ball Valves

ENGINEERED OPTIONS

SD030 | 2.2L | 30 kW

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

O Critical Silencer (Open Set Only)

Level 1 Fan and Belt Guards (Open Set Only)

ENGINE SYSTEM

O Radiator Stone Guard

O NPT Flexible Fuel Line

ELECTRICAL SYSTEM

ALTERNATOR SYSTEM

Anti-Condensation Heater

Permanent Magnet Excitation

O 10A UL Listed Battery Charger

FUEL SYSTEM

Battery Warmer

Alternator Upsizing

Tropical Coating

GENERATOR SET

Extended Factory Testing

8 Position Load Center

Pad Vibration Isolation

Oil Heater

INDUSTRIAL DIESEL GENERATOR SET

CIRCUIT BREAKER OPTIONS

Shunt Trip and Auxiliary Contact

Main Line Circuit Breaker

Electronic Trip Breakers

ENCLOSURE

Steel Enclosure

Aluminum Enclosure

for Availability)

Door Alarm Switch

Damper Alarm Contacts

Enclosure Heater

2nd Main Line Circuit Breaker

Weather Protected Enclosure

Level 1 Sound Attenuation

Level 2 Sound Attenuation

O AC/DC Enclosure Lighting Kit

WARRANTY (Standby Gensets Only)

2 Year Extended Limited Warranty

10 Year Extended Limited Warranty

ALTERNATOR SYSTEM

3rd Breaker System

GENERATOR SET

Special Testing

Level 2 Sound Attenuation with Motorized Dampers

Fluid Containment Pan

CONTROL SYSTEM O Spare Inputs (x4) / Outputs (x4)

Battery Disconnect Switch

CONTROL SYSTEM

O NFPA 110 Compliant 21-Light Remote Annunciator Remote Relay Assembly (8 or 16) Oil Temperature Indication and Alarm Remote E-Stop (Break Glass-Type, Surface Mount)

GENERAC | INDUSTRIAL

O Remote E-Stop (Red Mushroom-Type, Surface Mount)

O Remote E-Stop (Red Mushroom-Type, Flush Mount) O 100 dB Alarm Horn

 Ground Fault Annunciation O 120V GFCI and 240V Outlets O Remote Communication - Modem

 Up to 200 MPH Wind Load Rating (Contact Factory **FUEL TANKS (Size On Last Page)**

> O 8 in (203.2 mm) Fill Extension O 13 in (330.2 mm) Fill Extension 19 in (482.6 mm) Fill Extension Overfill Protection Valve

10A Engine Run Relay

O 5 Gallon Spill Box Return Hose 5 Gallon Spill Box Tank Risers

FUEL TANKS

O UL2085 Tank

Stainless Steel Tanks

Special Fuel Tanks

GENERAC INDUSTRIAL

Weight - Ibs (kg) Enclosure Only

Steel Aluminum

Enclosure Only

Steel Aluminum

Vent Extensions

 Fuel Level Switch and Alarm 5 Year Limited Warranty 12' Vent System 5 Year Extended Limited Warranty O Fire Rated Stainless Steel Fuel Hose 7 Year Extended Limited Warranty

TOWER ENGINEERING PROFESSIONALS 4710 E ELWOOD ST, STE 9 PHOENIX, AZ 85040

> VERIZON SITE NUMBER: 300189

OFFICE: (480) 285-0036

BELLEVUE, WA 98008

4301 HACIENDA DRIVE, SUITE 410

PLEASANTON, CA 94588

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EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

	194							
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01/02/24 TWH CONSTRUCTION JTC



Stephen Bunting P.E.

01/02/24

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

Professional Engineer License: #91898

REVISION:

Standby Power Rating 30 kW, 38 kVA, 60 Hz

> Prime Power Rating* 27 kW, 34 kVA, 60 Hz











BS5514 and DIN 6271

CSA C22.2



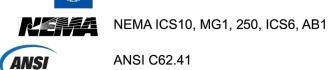
NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



ISO 3046, 7637, 8528, 9001



ANSI C62.41

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

that have already been proven in heavy-duty industrial applications under adverse conditions.

support continues after their generator purchase.

CONTROL SYSTEM

Solenoid Activated Starter Motor

Rubber-Booted Engine Electrical Connections



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter 7-Day Programmable Exerciser
- · Special Applications Programmable Logic Controller RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)

Isochronous Governor Control

Waterproof/Sealed Connectors

2.2L 30 kW

- Real/Reactive/Apparent Power
- Power Factor kW Hours, Total, and Last Run

Full System Status Display

All Phase AC Voltage

Amps: 90

Amps: 45

Amps: 36

Battery Voltage Frequency

Coolant Temperature

Alarms and Warnings Oil Pressure

Oil Pressure

Coolant Level

Engine Speed

- Coolant Temperature Coolant Level
- Engine Overspeed Battery Voltage

GENERAC INDUSTRIAL

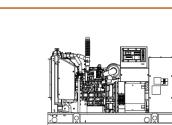
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings

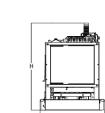
Alarms and Warnings Spelled Out (No Alarm Codes)

SD030 | 2.2L | 30 kW

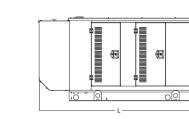
INDUSTRIAL DIESEL GENERATOR SET **EPA Certified Stationary Emergency**

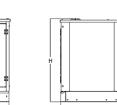
DIMENSIONS AND WEIGHTS*

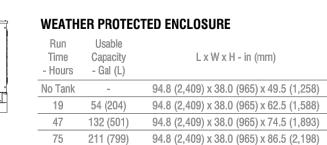




	OPEN S	SET (Include	es Exhaust Flex)	
	Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - Ibs (kg)
	No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,641 (745)
1	19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	2,121 (963)
	47	132 (501)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,351 (1,067)
	75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,560 (1,162)
	107	300 (1,136)	92.9 (2,360) x 37.4 (950) x 81.8 (2,078)	2,623 (1,190)

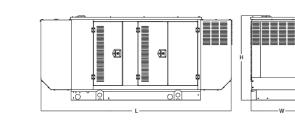


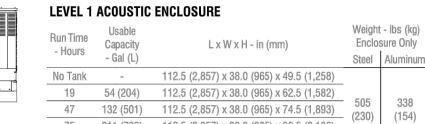


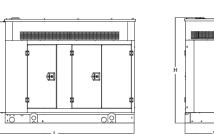


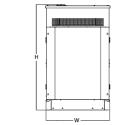
107 300 (1,136) 94.8 (2,409) x 38.0 (965) x 86.5 (2,198)

75 211 (799) 112.5 (2,857) x 38.0 (965) x 86.5 (2,198) 107 300 (1,136) 112.5 (2,857) x 38.0 (965) x 86.5 (2,198)









LEVEL 2	ACOUSTIC	ENCLOSURE		
Run Time - Hours	Usable Capacity	L x W x H - in (mm)	Weight Enclos	
TIGUIS	- Gal (L)		Steel	Alur
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)		
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)	510 (232)	١,
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)		(1
75	211 (799)	94.8 (2.407) x 38.0 (965) x 98.1 (2.491)	(202)	(1

107 300 (1,136) 94.8 (2,407) x 38.0 (965) x 98.1 (2,491)

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53189 P: (262) 544-4811 ©2018 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice. Rev. B 08/27/18

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

General		Cooling System	
Make	Perkins	Cooling System Type	Closed Recovery
EPA Emissions Compliance	Stationary Emergency	Water Pump Type	Pre-Lubed, Self Sealing
EPA Emissions Reference	See Emission Data Sheet	Fan Type	Pusher
Cylinder #	4	Fan Speed - RPM	1,980
Туре	In-Line	Fan Diameter - in (mm)	18 (457)
Displacement - in ³ (L)	135 (2.22)		
Bore - in (mm)	3.3 (84)	Fuel System	
Stroke - in (mm)	3.9 (100)	Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Compression Ratio	23.3:1	Fuel Specifications	ASTM
Intake Air Method	Turbocharged	Fuel Filtering (Microns)	5
Cylinder Head	Cast Iron	Fuel Inject Pump	Distribution Injection Pump
Piston Type	Aluminum	Fuel Pump Type	Engine Driven Gear
Crankshaft Type	Forged Steel	Injector Type	Mechanical
		Fuel Supply Line - in (mm)	0.31 (7.9) ID
Engine Governing		Fuel Return Line - in (mm)	0.2 (4.8) ID
Governor	Electronic Isochronous		
Frequency Regulation (Steady State)	±0.5%	Engine Electrical System	
Lubrication Overtons		System Voltage	12 VDC
Lubrication System		Battery Charger Alternator	Standard

Battery Size

Battery Voltage

Ground Polarity

ALTERNATOR SPECIFICATIONS

Oil Pump Type

Oil Filter Type

Crankcase Capacity - qt (L)

Standard Model	K0035124Y21	
Poles	4	
Field Type	Revolving	
Insulation Class - Rotor	Н	
Insulation Class - Stator	Н	
Total Harmonic Distortion	<5% (3-Phase)	
Telephone Interference Factor (TIF)	< 50	

Full-Flow

11.2 (10.6)

Brushless Single Sealed Direct via Flexible Disc rototype Short Circuit Tes Voltage Regulator Type Digital Number of Sensed Phases Regulation Accuracy (Steady State)

See Battery Index 0161970SBY

12 VDC

Negative

systems and communications software.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines

Generac is committed to ensuring our customers' service

GENERAC INDUSTRIAL

INDUSTRIAL DIESEL GENERATOR SET

SD030 |

EPA Certified Stationary Emergency

OPERATING DATA

:		:	
POWER RATINGS			
			Standby
	Single-Phase 120/240 VAC @1.0pf	30 kW	Am
	Three-Phase 120/208 VAC @0.8pf	30 kW	Am

hree-Phase 120/240 VAC @0.8pf

Three-Phase 277/480 VAC @0.8pf

Three-Phase 346/600 VAC @0.8pf MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip					
277/480 VAC	30%	208/240 VAC	30%		
K0035124Y21	61	K0035124Y21	46		
K0040124Y21	76	K0040124Y21	58		
K0050124Y21	98	K0050124Y21	75		

FUEL CONSUMPTION RATES*

.	
Percent Load	Standby
25%	1.0 (3.7)
50%	1.4 (5.2)
75%	2.0 (7.5)
100%	2.8 (10.5)
	50% 75%

30 kW

COOLING

		Standby
Coolant Flow	gpm (Lpm)	14.9 (56.2)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW)	128,638 (136)
Inlet Air	scfm (m³/hr)	2,800 (4,757)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin	No. 0199280SSD
Maximum Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

andby - See Bulletin 0187500SSB

rime - See Bulletin 0187510SSB

ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	RPM	1,800	Exhaust Flow (Rated Output)	scfm (m ³ /min)	296.6 (8.4)
Horsepower at Rated kW**	hp	49	Max. Allowable Backpressure (Post Turbocharger)	inHg (kPa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1,181 (360)	Exhaust Temp (Rated Output)	°F (°C)	892 (478)
BMEP	psi (kPa)	159 (1,096)			
** Refer to "Emissions Data Sheet"	for maximum bHP for	EPA and SCAQMD	ermitting purposes.		

lease contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.

Flow at Rated Power scfm (m3/min)

eration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

30 KW DIESEL GENERATOR CALE: NOT TO SCALE



TOTAL # OF BATTERIES INSTALLED: 24 TOTAL BATTERY KWH CAPACITY: 54.72

1. General Operating Instructions

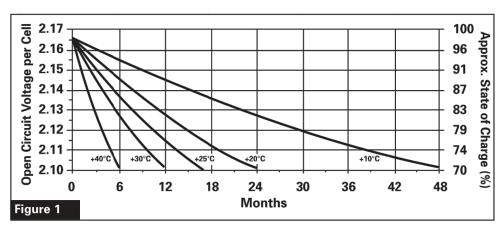
1.1 Operating Temperature Range

The recommended operating temperature range for PowerSafe® SBS EON Technology™ batteries in hybrid applications is -40°C to +50°C. Optimum life and performance are attained at +20°C, however, with the correct controls in place, cyclic performance in hybrid applications is not impacted by elevated temperatures (providing that the maximum battery temperature is not allowed to exceed +50°C).

1.2 Storage

PowerSafe SBS EON Technology battery types have a shelf life of 2 years when stored at 20°C. Higher temperatures increase the rate of self discharge and reduce storage life.

Figure 1 gives the relationship between storage time, open circuit voltage (OCV) and state of charge as a function of temperature.



1.3 Freshening Charge

PowerSafe SBS EON Technology battery types must be given a freshing charge when the OCV approaches 2.10 Volts/cell or when maximum storage time is reached (whichever occurs first).

The freshening charge should be conducted using constant voltage in the range of 2.29 to 2.40 volts per cell for a period of 24 hours. The charge current should be limited to a value expressed numerically in Amps as 10% of the 10 hour capacity rating of the battery (ie. 19 Amps for SBS 190F).

The maximum storage times between refresh charge and recommended OCV audit frequency is given in the table below.

Temperature (°C / °F)	Storage Time (Months)	OCV Audit Interval (Months)
+10 / +50	48	6
+15 / +59	34	6
+20 / +68	24	4
+25 / +77	17	4
+30 / +86	12	3
+35 / +95	8.5	2
+40 / +104	6	2

1.4 Commissioning

Prior to commencement of cyclic duty, the battery must be given a commissioning charge. This shall consist of 24 hours charge at a voltage equivalent to 2.40 Volts/cell with no load connected.

1.5 Fast Charging

Fast charge techniques must be used for frequent discharge cyclic applications. In such applications the rectifier output voltage should be set at 2.40 Volts/cell (20°C).

1.6 Current Limit

Inherent low internal resistance allows PowerSafe SBS EON Technology battery types to accept in-rush currents up to 600% C₁₀ amps (e.g. PowerSafe SBS 190F in-rush current up to 1140 Amps). For reliable cyclic performance and to achieve maximum cycle life potential, the acceptable recharge current limit range is 0.1 to 1C₁₀ Amps (e.g. for PowerSafe SBS 190F the recharge current range is 19 Amps to 190 Amps per series string).

1.7 Disposal

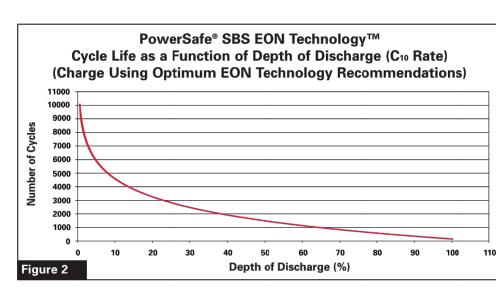
PowerSafe SBS EON Technology batteries are recyclable. End of life batteries must be packaged and transported according to prevailing transportation rules and regulations. End of life batteries must be disposed of in compliance with local and national laws by a licensed battery recycler.

2. Cyclic Operation Guidelines

2.1 Cyclic Performance

PowerSafe SBS EON Technology has been developed from proven SBS Thin Plate Pure Lead (TPPL) technology, to provide the added capability of delivering higher levels of cyclic performance as illustrated in figure 2.

In order to achieve the cycle life shown in figure 2 PowerSafe SBS EON Technology batteries must be returned to full state of charge using the charge regime options recommended by EnerSys® prior to commencement of the next discharge cycle. Operating at partial state of charge will significantly reduce cycle life.



2.2 Discharge

Depth of discharge must be measured using an Ah counting device, with an accuracy ±1% of full range of expected discharge cycle currents. The classification of the shunt should be minimum of 0.2. A low voltage disconnect should be used to protect the battery from abusive deep discharge (typically 1.75 Volts/cell).

2.3 Recharge

Optimum cycle life (figure 2) is achieved by controlling the amount of recharge back into the battery to a level where 103% of discharged Ah is returned. Controlled recharge can be achieved by Ah counting using a device capable of measuring float current equivalent to 100mA/100Ah of installed battery capacity.

Alternatively, where Ah counting during recharge is not available, it is possible to calculate the required recharge time based upon the following formula.

Recharge time (hrs) =

((discharged Ah*0.8) / recharge current limit)*2+1

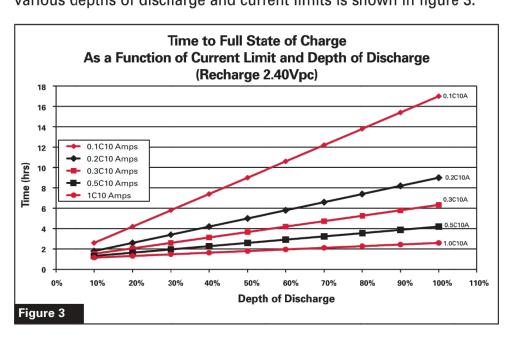
Example

PowerSafe SBS 190F discharge to 80% depth of discharge removes 152Ah. With a current limit of 0.5C10 A (95 Amps), the time to recharge the battery is:

Time (hrs) = ((152*0.8) / 95)*2+1

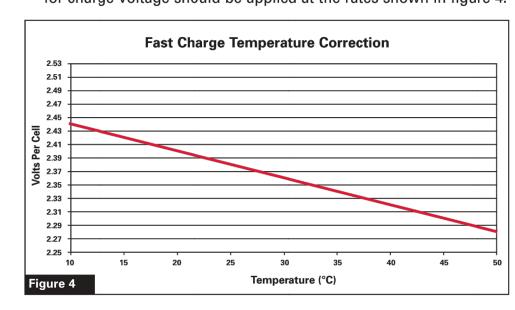
- = (121.6/95)*2+1
- = 1.28*2+1
- = 2.56 + 1
- = 3.56 hrs

Indication of time to full state of charge using the above formula for various depths of discharge and current limits is shown in figure 3.



The time to reach full state of charge is influenced by battery temperature and charge voltage during the recharge.

- 1) Where Ah counting is used to control the recharge (i.e.103% of discharged Ah is returned) the battery voltage can be maintained at a constant 2.40 Volts/cell provided that the battery temperature is controlled at or below +50°C discharged Ah returned.
- 2) Where time formula recharge is used, temperature compensation for charge voltage should be applied at the rates shown in figure 4.



Where rectifier voltage cannot be adjusted to values >2.40 Volts/cell to compensate for temperatures below 20°C, the time to full state of charge will be increased. For additional information and guidance on this, please contact your EnerSys® representative.

2.29 Volts/cell.

In order for the warranty to be valid, the user must provide, by means of routine regular data logging, the following data:

- 1) The number of cycles performed and the depth of discharge
- 2) The duration of each discharge and charge cycle, and the Ah in
- 3) Full details of the recharge voltage/current profile for the last 50
- 4) A full history of the ambient and battery surface temperatures,
- 5) The time and date of each "event" (an "event" is defined as the start /stop of the battery discharge, the start/stop of the battery recharge, the start stop of any generator input power or other input

In hybrid applications it is important that the maximum temperature of the battery in operation does not exceed +50°C. Continuous charge at 2.40volts/cell will significantly reduce the battery life.

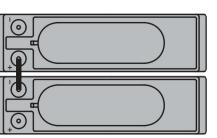
3. General Specifications

		Nominal Ca	apacity (Ah)			Nominal [Dimensions							
PowerSafe® SBS Battery Type	Nominal Voltage (V)	to 1.80Vpc @ 20°C	10 hr rate to 1.75Vpc @ 77°F	100000	rate ngth in	W mm	idth in	He mm	eight in	W kg	eight Ibs	Typical Short Circuit Current (A)	Resistance (mΩ)	Internal Terminals
SBS B14	12	62	62	280	11.0	97	3.8	264	10.4	19.1	42.0	1800	7.0	M8 F
SBS B14F	12	62	62	303	11.9	97	3.8	264	10.4	19.1	42.0	1800	7.0	M6 M
SBS C11	12	92	91	395	15.6	105	4.1	264	10.4	28.0	61.6	2300	5.5	M8 F
SBS C11F	12	92	91	417	16.4	105	4.1	256	10.1	28.0	61.6	2300	5.5	M6 M
SBS 100	12	100	100	395	15.6	108	4.3	287	11.3	32.6	71.9	2210	5.6	M8 F
SBS 100F	12	100	100	395	15.6	108	4.3	287	11.3	32.6	71.9	2210	5.6	M6 M
SBS 170F	12	170	170	561	22.1	125	4.9	283	11.1	52.5	115.7	3400	4.0	M6 M
SBS 190F	12	190	190	561	22.1	125	4.9	316	12.4	60.0	132.3	3800	3.3	M6 M
SBS 410	2	410	410	200	7.9	208	8.2	239	9.4	23.2	51.1	4725	1.3	M8 M

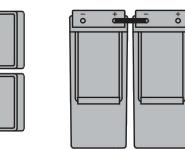
4. Connectors

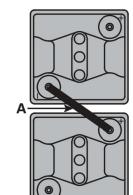
PowerSafe® SBS Battery Type	Connector Part No.
SBS B14, C11	2205-8919
SBS B14F, C11F	2205-8891
SBS 100	2205-8750
SBS 100F	2205-8749
SBS 170F & 190F	2205-8769
SBS 410	2205-9887 (A
SBS 410	2205-8865 (B

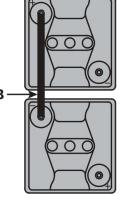




SBS B14F, C11F, 100F, 170F, 190F







SBS 410

At the end of controlled recharge the battery can revert to either discharge mode, or where the battery is used to provide mains back up the voltage should be reduced to float voltage level of

2.4 Data Recording

- ("dod") of each cycle.

- recorded at regular intervals throughout battery operation and life.
- power source, etc).

ISSUED FOR:

| verizon

BELLEVUE, WA 98008

4301 HACIENDA DRIVE, SUITE 410

PLEASANTON, CA 94588

TOWER ENGINEERING PROFESSIONALS 4710 E ELWOOD ST, STE 9

PHOENIX, AZ 85040 OFFICE: (480) 285-0036

VERIZON SITE NUMBER:

300189

BU #: **877196**

101 AUTO REPAIR

13145 MURPHY AVE

SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED

TO 50'-0" MONOPOLE

CROWN

REV	DATE	DRWN	DESCRIPTION	DES./QA
3	11/17/22	KRS	CONSTRUCTION	JFJ
4	05/19/23	KBA	CONSTRUCTION	JFJ
5	06/16/23	GBP	CONSTRUCTION	JFJ
6	06/30/23	GBP	CONSTRUCTION	JFJ
7	01/02/24	TWH	CONSTRUCTION	ЈТС



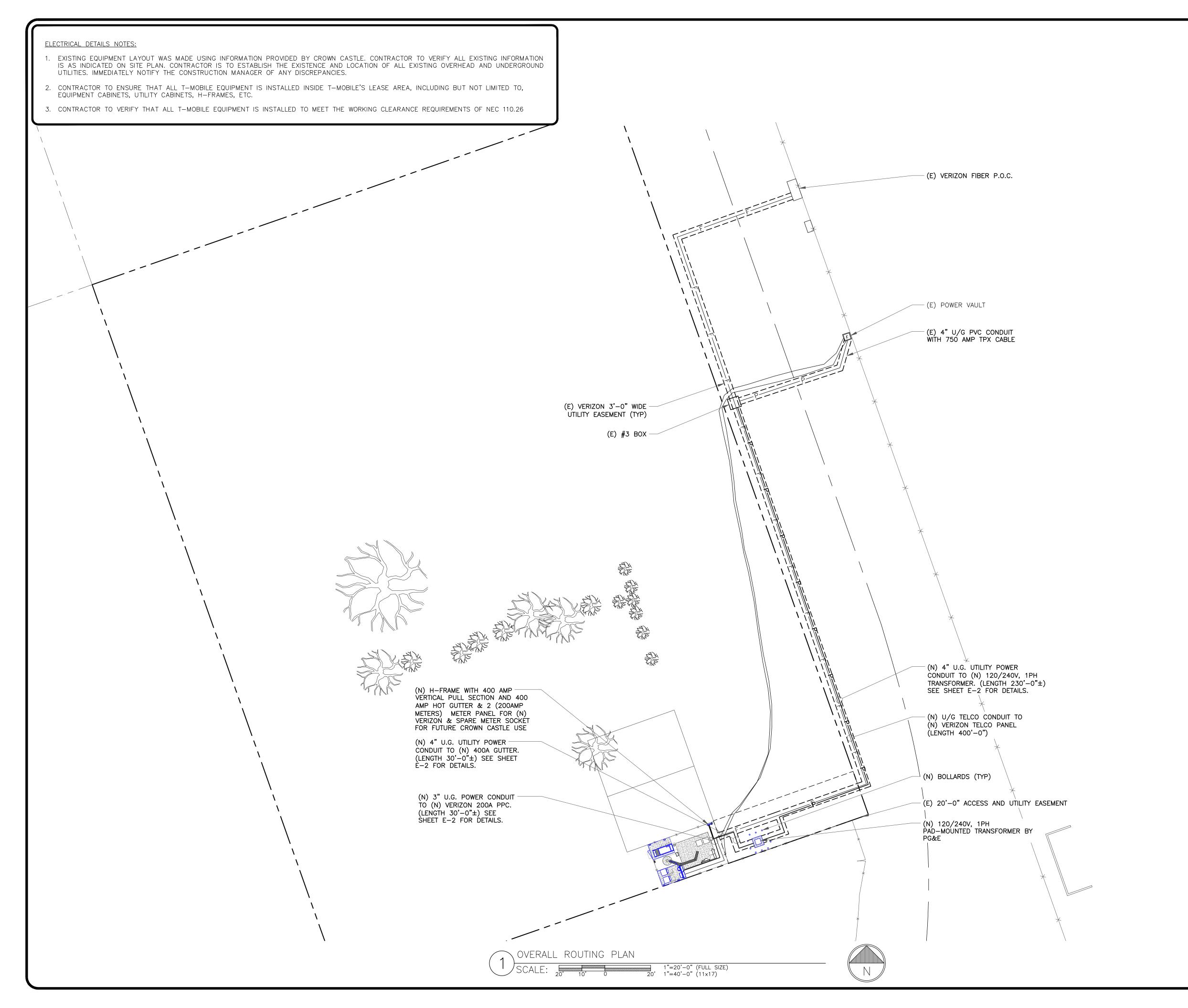
Stephen Bunting P.E. Professional Engineer License: #91898

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SHEET NUMBER:

REVISION:

ENERSYS POWERSAFE SBS 190F BATTERY DETAIL SCALE: NOT TO SCALE









BU #: **877196 101 AUTO REPAIR**

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

	ISSUED FOR:								
REV	DATE	DRWN	DESCRIPTION	DES./QA					
2	08/31/22	ORG	CONSTRUCTION	JFJ					
3	11/17/22	KRS	CONSTRUCTION	JFJ					
4	05/19/23	KBA	CONSTRUCTION	JFJ					
5	06/16/23	GBP	CONSTRUCTION	JFJ					
6	06/30/23	GBP	CONSTRUCTION	JFJ					



06/30/23

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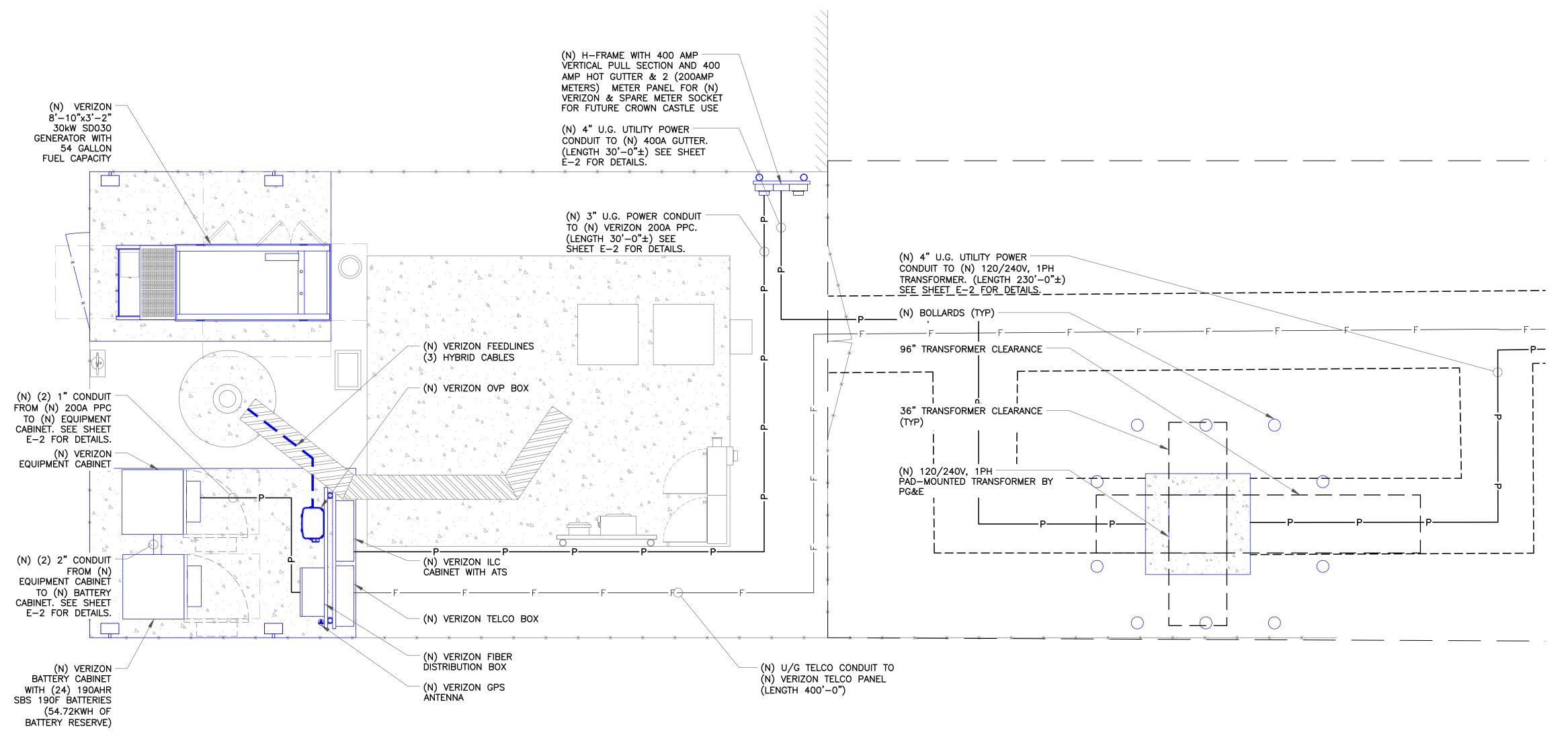
SHEET NUMBER:

ELECTRICAL DETAILS NOTES:

- 1. EXISTING EQUIPMENT LAYOUT WAS MADE USING INFORMATION PROVIDED BY CROWN CASTLE. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
- 2. CONTRACTOR TO ENSURE THAT ALL T-MOBILE EQUIPMENT IS INSTALLED INSIDE T-MOBILE'S LEASE AREA, INCLUDING BUT NOT LIMITED TO, EQUIPMENT CABINETS, UTILITY CABINETS, H-FRAMES, ETC.
- 3. CONTRACTOR TO VERIFY THAT ALL T-MOBILE EQUIPMENT IS INSTALLED TO MEET THE WORKING CLEARANCE REQUIREMENTS OF NEC 110.26

NOTE:
GENERATOR ENCLOSURE WILL BE PROVIDED BY THE GENERATOR MANUFACTURER FOR WEATHER PROTECTION (SEE SHEET C-5.6). ENCLOSURE WILL ENCLOSE THE GENERATOR ONLY PER THE MANUFACTURER STANDARDS. NO OTHER EQUIPMENT WILL BE ENCLOSED BY THE GENERATOR ENCLOSURE.











VERIZON SITE NUMBER: 300189

BU #: **877196 101 AUTO REPAIR**

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

	ISSUED FOR:								
REV	DATE	DRWN	DESCRIPTION	DES./QA					
3	11/17/22	KRS	CONSTRUCTION	JFJ					
4	05/19/23	KBA	CONSTRUCTION	JFJ					
5	06/16/23	GBP	CONSTRUCTION	JFJ					
6	06/30/23	GBP	CONSTRUCTION	JFJ					
7	01/02/24	TWH	CONSTRUCTION	JTC					



01/02/24

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SHEET NUMBER:

EER: REVISION:

PROPOSED ROUTING PLAN

ALE: 3/4"=1'-0" (FULL SIZE) 3/8"=1'-0" (11x17)



ELECTRICAL DETAILS NOTES:

LEGEND

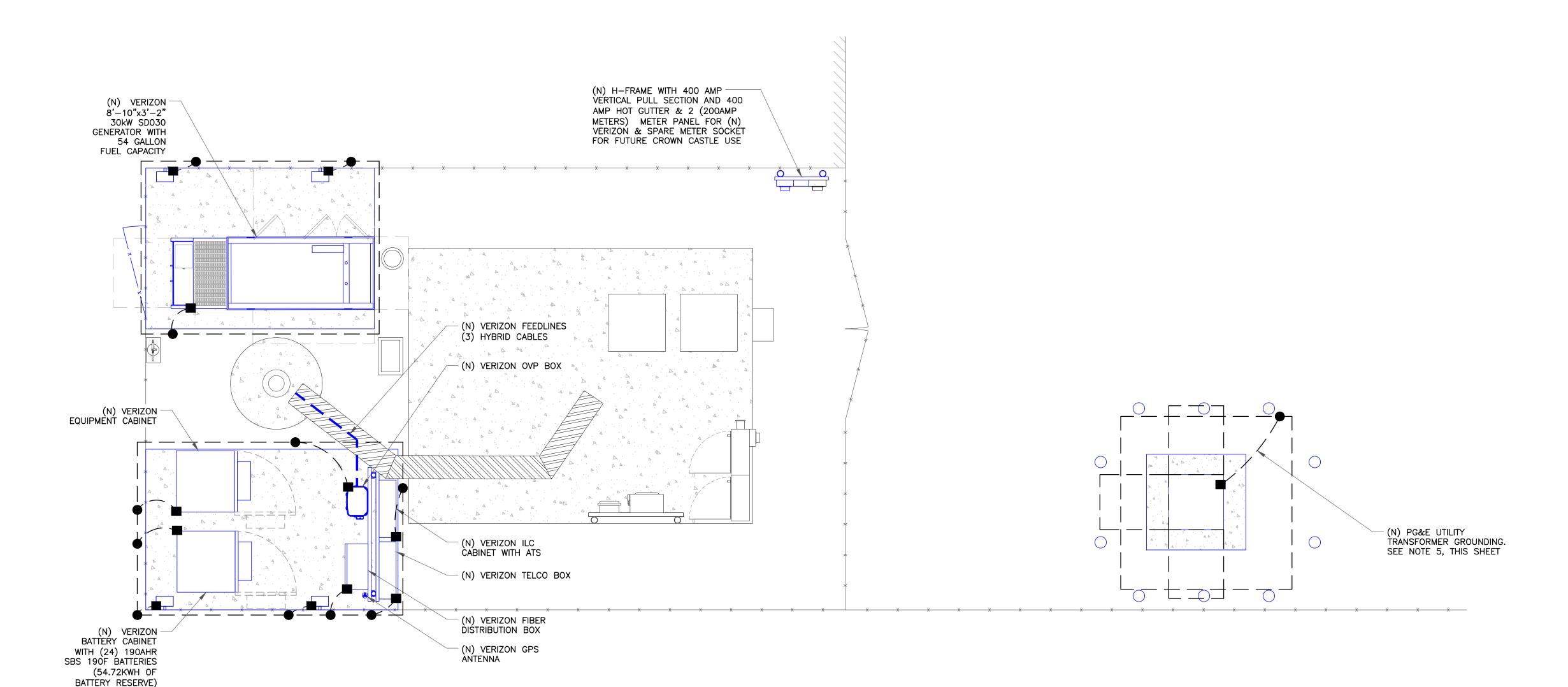
MECHANICAL CONNECTION

EXOTHERMIC CONNECTION

ANTENNA GROUND BAR

MASTER GROUND BAR

- 1. EXISTING EQUIPMENT LAYOUT WAS MADE USING INFORMATION PROVIDED BY CROWN CASTLE. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
- 2. CONTRACTOR TO ENSURE THAT ALL T-MOBILE EQUIPMENT IS INSTALLED INSIDE T-MOBILE'S LEASE AREA, INCLUDING BUT NOT LIMITED TO, EQUIPMENT CABINETS, UTILITY CABINETS, H-FRAMES, ETC.
- 3. CONTRACTOR TO VERIFY THAT ALL T-MOBILE EQUIPMENT IS INSTALLED TO MEET THE WORKING CLEARANCE REQUIREMENTS OF NEC 110.26
- 4. CONTRACTOR TO VERIFY CONDITION AND LOCATION OF ALL EXISTING GROUNDING EQUIPMENT PRIOR TO CONSTRUCTION. TEP DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, GROUND RINGS, GROUND RODS, AND GROUND BARS.
- 5. PROPOSED UTILITY TRANSFORMER GROUNDING TO BE SIZED AND INSTALLED PER PACIFIC GAS & ELECTRIC STANDARDS.









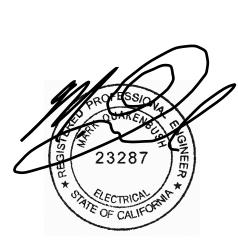
VERIZON SITE NUMBER: 300189

> BU #: **877196** 101 AUTO REPAIR

13145 MURPHY AVE SAN MARTIN, CA 95046

EXISTING 35'-0" MODIFIED TO 50'-0" MONOPOLE

\bigcap	ISSUED FOR:								
REV	DATE	DRWN	DESCRIPTION	DES./QA					
2	08/31/22	ORG	CONSTRUCTION	JFJ					
3	11/17/22	KRS	CONSTRUCTION	JFJ					
4	05/19/23	KBA	CONSTRUCTION	JFJ					
5	06/16/23	GBP	CONSTRUCTION	JFJ					
6	06/30/23	GBP	CONSTRUCTION	JFJ					



06/30/23

REVISION:

Mark Quakenbush, P.E. Professional Engineer License: #23287

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SHEET NUMBER:

3/4"=1'-0" (FULL SIZE) 3/8"=1'-0" (11x17)

	AC POWER PANEL (PROPOSED)										
	120/240 VOLTS 1 PHASE		SU	VIRE MOUN	E 200A, 2 POLE DUNTED MAIN BREAKER						
NO.	LOAD SERVED	ØA VA	ØB VA	AMP / POLE	L1	L2	AMP / POLE	ØA VA	ØB VA	LOAD SERVED	NO.
1	RECEPTACLE	180	_	20/1	830	_	20/1	650		BATTERY CHARGER	2
3	LIGHT	_	300	20/1	_	1300	20/1		1000	HEATER	4
5	DECTIFIED	1000	_	70 /0	1000	_	70 /0	0	_	CUDOE CUDDRECCOR	6
7	RECTIFIER	_	1000	30/2	_	1000	30/2	_	0	SURGE SUPPRESSOR	8
9	DECTIFIED	1000	_	70 /0	2000	_	70 /2	1000	_	DESTILED	10
11	RECTIFIER	_	1000	30/2	_	2000	30/2	_	1000	RECTIFIER	12
13	DEOTIFIED	1000	_	70 /0	2000	_	70 /0	1000	_	DESTIFIED	14
15	RECTIFIER	_	1000	30/2	_	2000	30/2	_	1000	RECTIFIER	16
17	DEOTIFIED	1000	_	70 /0	2000	_	70 /0	1000	_	DESTIFIED	18
19	RECTIFIER	_	1000	30/2	_	2000	30/2	_	1000	RECTIFIER	20
21	BLANK	_	_	_	1000	_	70 /0	1000	_	DESTILED	22
23	BLANK	_	_	_	_	1000	30/2	_	1000	RECTIFIER	24
25	BLANK	_	_	_	_	_	_	_	_	BLANK	26
27	BLANK	_	_	_	_	_	_	_	_	BLANK	28
29	BLANK	_	_	_	_	_	_	_	_	BLANK	30
31	BLANK	_	_	_	_	_	_	_	_	BLANK	32
33	BLANK	_	_	_	_	_	_	_	_	BLANK	34
35	BLANK	_	_	_	_	_	_	_	_	BLANK	36
37	BLANK	_	_	_	_	_	_	_	_	BLANK	38
39	BLANK	_	_	_	_	_	_	_	-	BLANK	40
41	BLANK	_	_	_	_	_	_	_	-	BLANK	42
	PHA	SE TO	TALS (√A):	8830	9300					'
	CURRENT	PER F	PHASE	(A):	73.6	77.5					
	PA	NEL TO	TAL (√A):	18	130					
	PANEL TO	ΓAL x 1	125% (√A):	22	130					
	TOTAL LOAD FOR GEN	VA)	18	3.1							

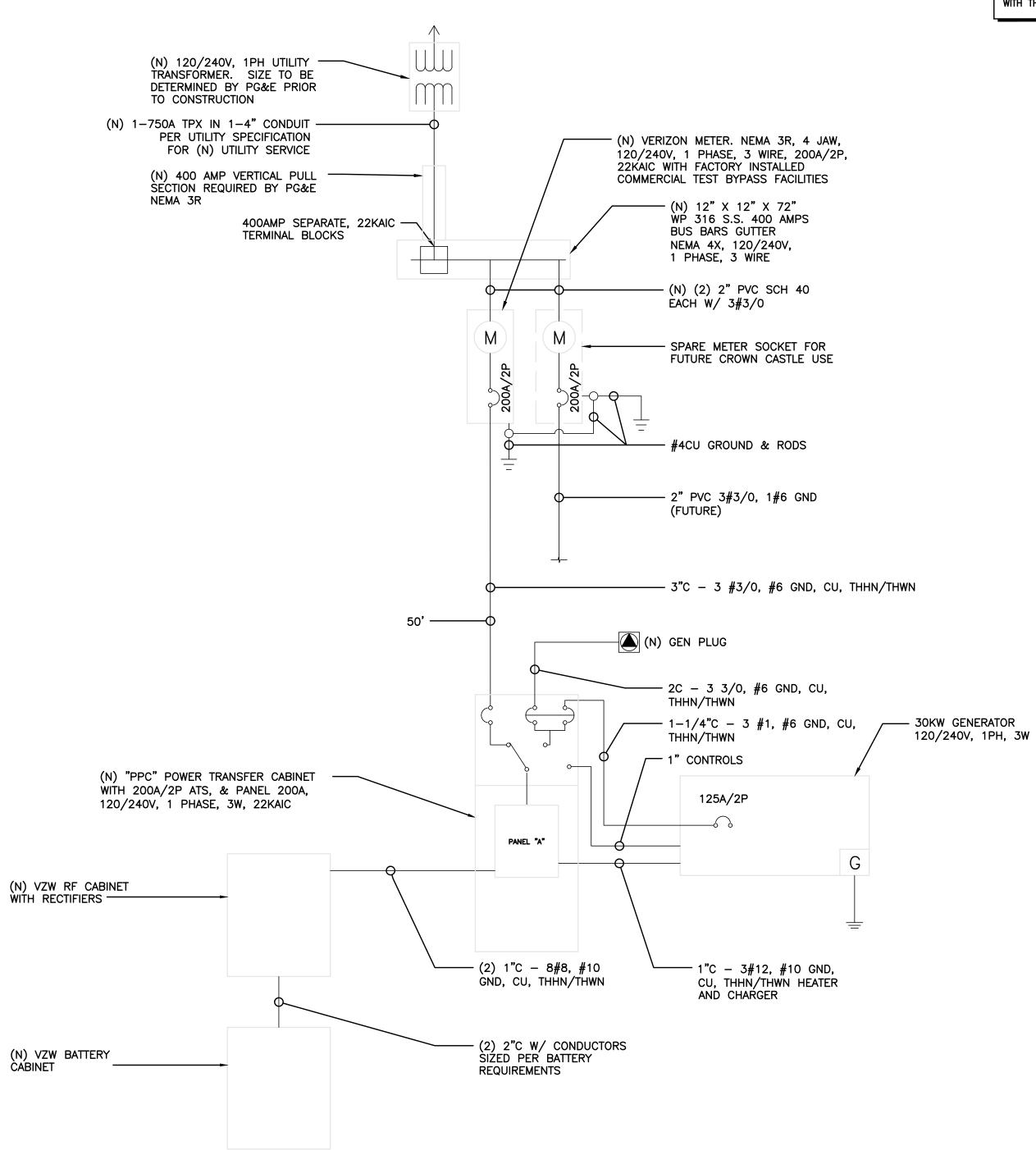
DC -48V FEEDER CABLING CHART

CALCULATIONS ARE BASE ON WORST CASE FULL LOAD AMPS AT 104A -48VDC, NOT EXCEEDING 3% VOLTAGE DROP. IF FIELD CONDITIONS ARE DIFFERENT THAN INDICATED, CONTACT ENGINEER FOR REVISED CALCULATIONS.

DISTANCE FROM FUEL CELL TO EQUIP. CABINET.	-48V, DC SINGLE CABLE	-48V, DC PARALLEL CABLE	CONDUIT SIZE
1'-70'	1-#1/0 CU. AWG		1-1/4"
71'–90'	1-#2/0 CU. AWG		1-1/2"
91'–110'	1-#3/0 CU. AWG		1-1/2"
111'-140'	1-#4/0 CU. AWG		2"
141'–175'		2-#2/0 CU. AWG	2"

ELECTRICAL DETAILS

SCALE: NOT TO SCALE



NOTE:
#6 COPPER WIRE AND GREATER SHALL BE
(COPPER) THWN WIRE OR (COPPER) XHHW.

NOTE:
PRIOR TO RUNNING CONDUIT ROUTE — CONTRACTOR
SHALL CONTACT THE VERIZON PROJECT MANAGER AND
VERIFY THE EQUIPMENT CABINET LAYOUT
CONFIGURATION AND ROUTE CONDUITS ACCORDINGLY.

NOTE:
PRE-CONSTRUCTION MEETING AND ELECTRICAL EASEMENT REQUIRED.

NOTE:
CONTRACTOR SHALL TAG EACH
CIRCUIT CONDUCTOR AT EACH
J-BOX, OUTLET, SWITCH, ETC.
WITH THE CIRCUITS IDENTIFICATION.







VERIZON SITE NUMBER: 300189

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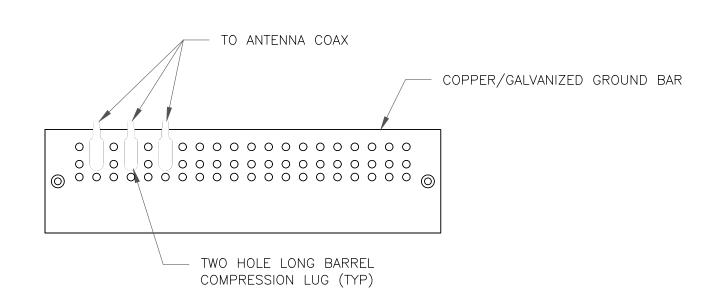
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SHEET NUMBER:

E-2



NOTES:

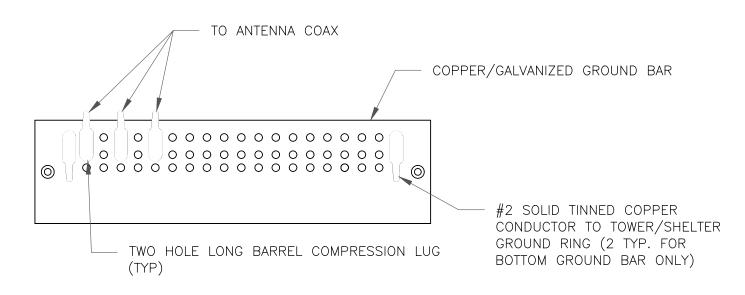
- 1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- 2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- 3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.



SCALE: NOT TO SCALE

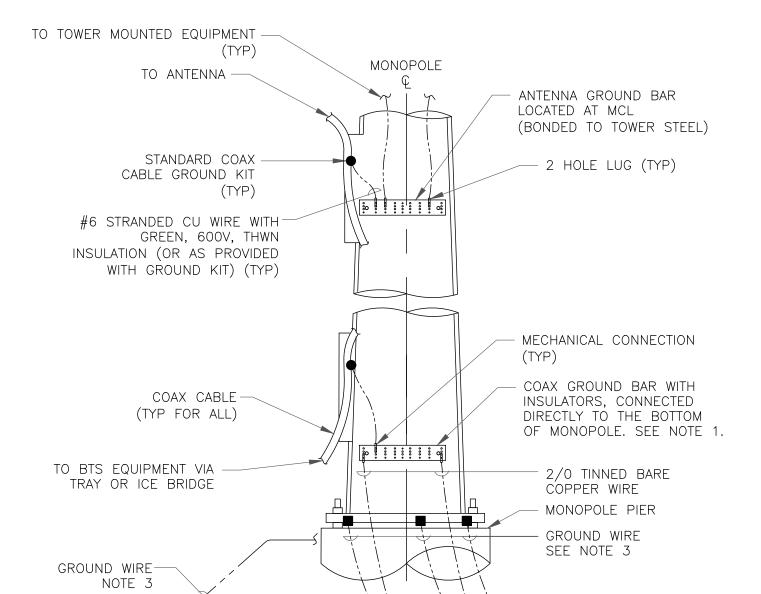
INSPECTION WELL

NOTES:



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



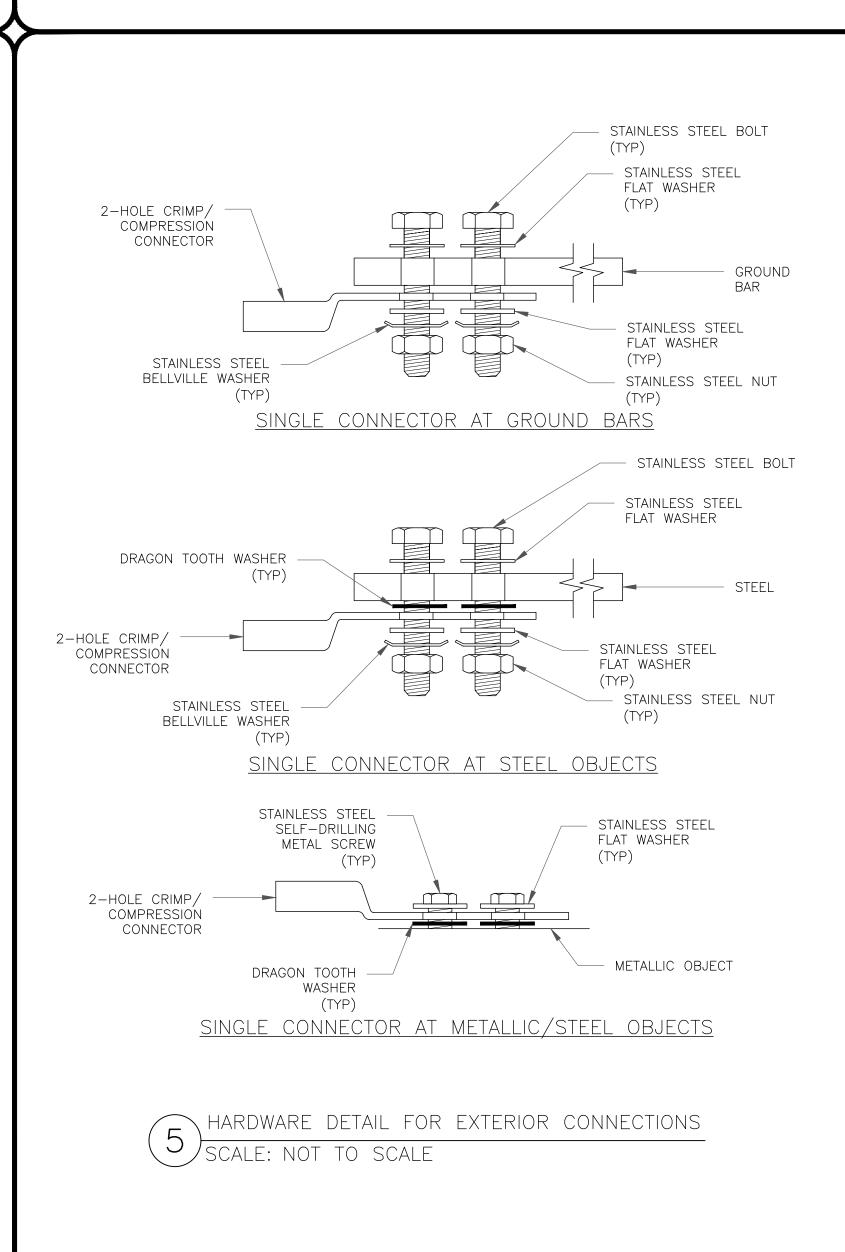


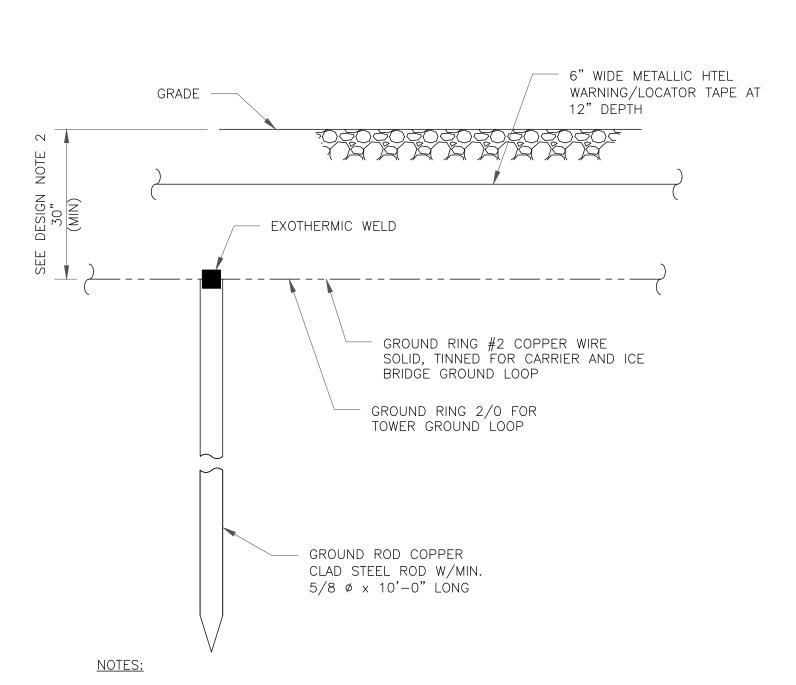
- 1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
- 2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.

— EXOTHERMIC WELD (TYP)

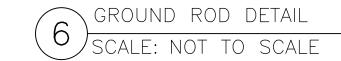
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

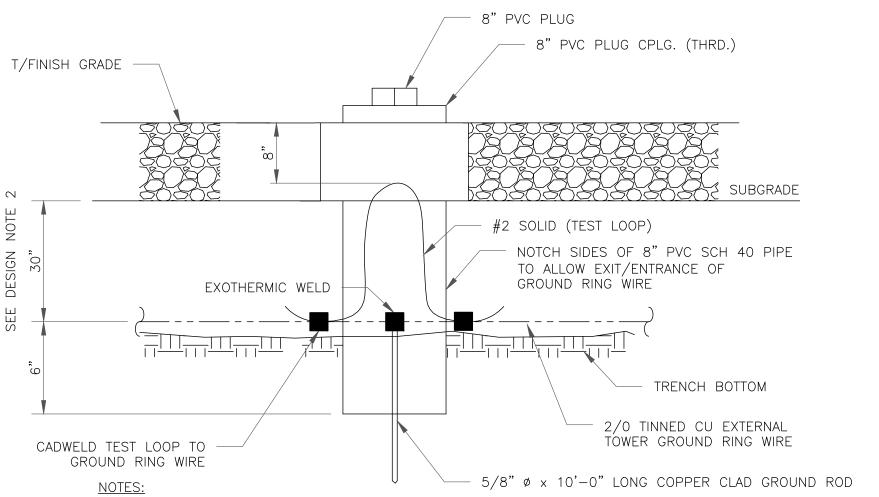






- 1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE
- 2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

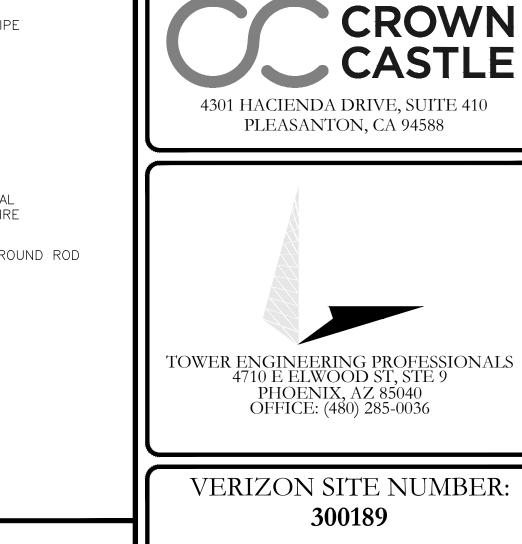




2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE





VERIZON SITE NUMBER:

BELLEVUE, WA 98008

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В	10/21/21	GVM	PRELIMINARY	JFJ					
0	03/09/22	DRS	CONSTRUCTION	JFJ					

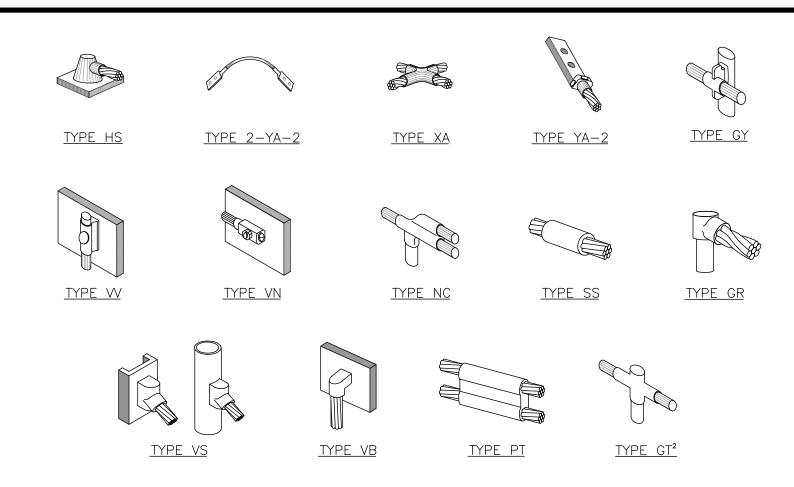


03/09/22

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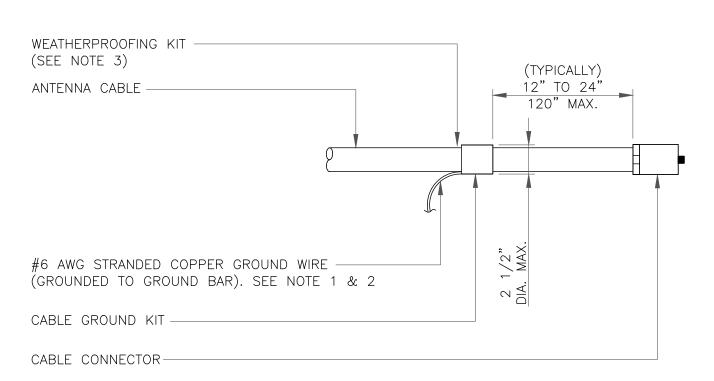


NOTE:

- 1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC
- MOLDS TO BE USED FOR THIS PROJECT.

 2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

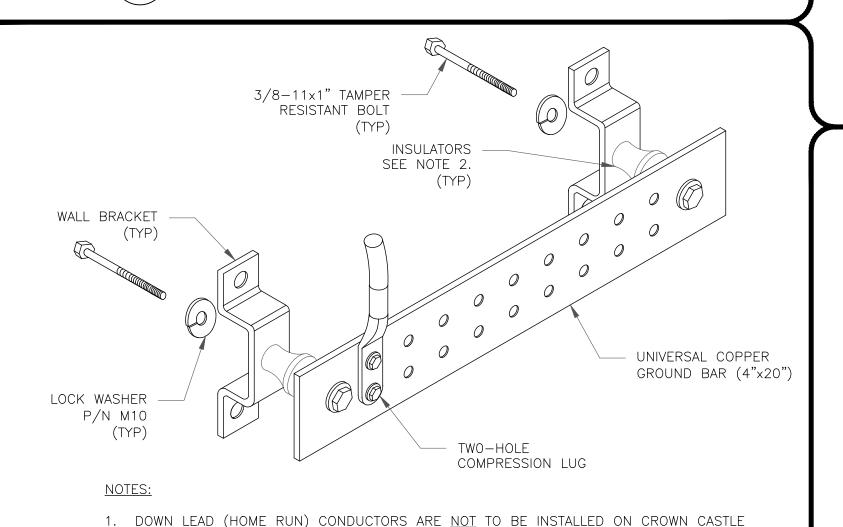
CADWELD GROUNDING CONNECTIONS SCALE: NOT TO SCALE



NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- 3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.





USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO

MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION,

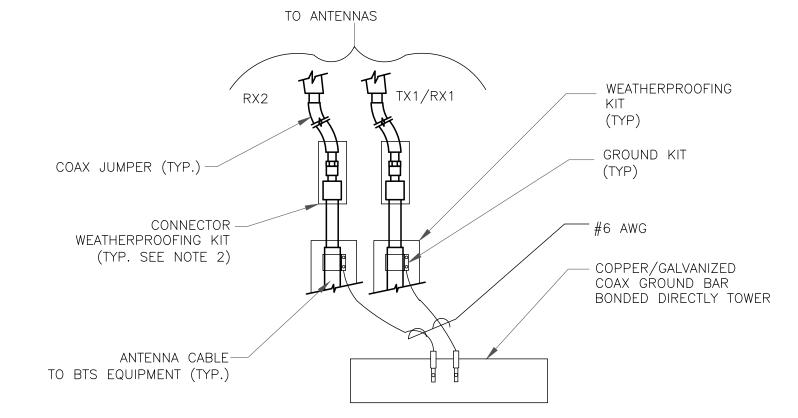
CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

GROUND BAR DETAIL

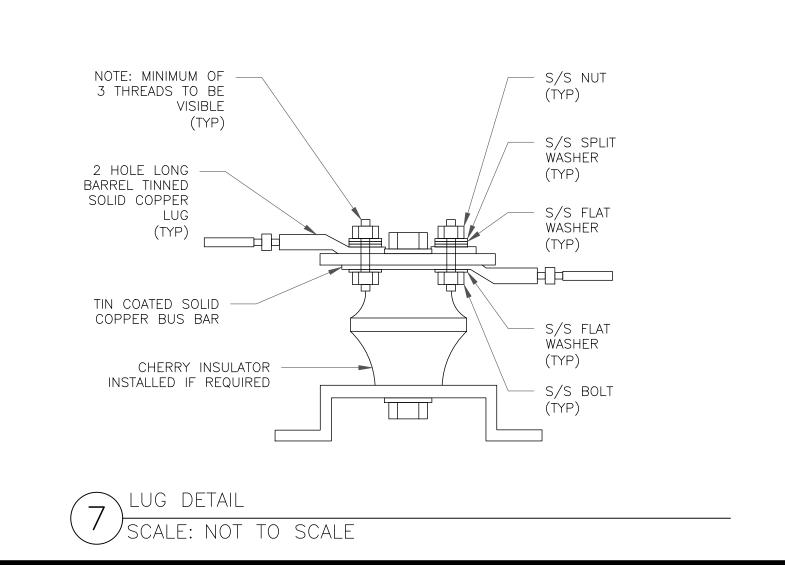
SCALE: NOT TO SCALE

2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL

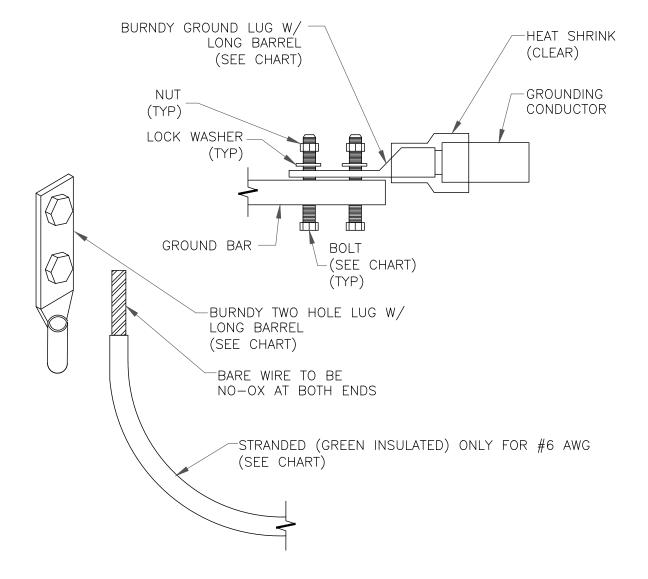


- NOTES
- 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
- 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.





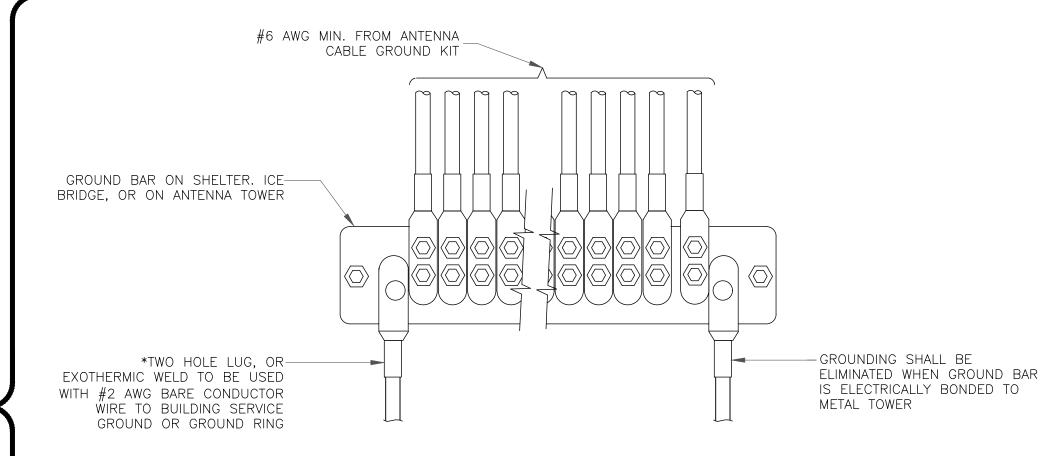




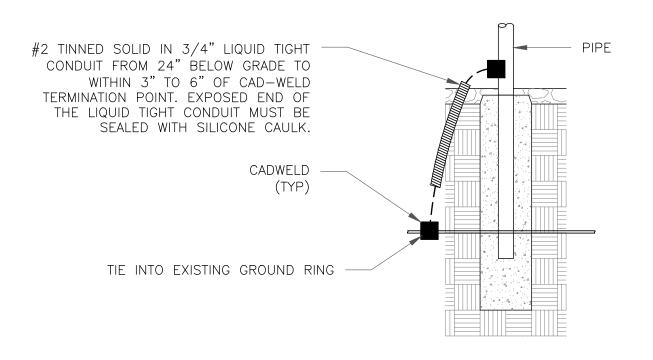
NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE







8 TRANSITIONING GROUND DETAIL SCALE: NOT TO SCALE







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