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1200 CONCORD AVENUE, SUITE 500



2840 HOWE ROAD, SUITE E MARTINEZ, CA 94553

BA61730S

VB: BRENTWOOD MONOPOLE

280 CAMINO DIABLO BRENTWOOD, CA 94513

CONSTRUCTION

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	В	07/29/2022	100%CDs FOR REVIEW	Г

Jurisdiction

REV DATE



TITLE SHEET

T-1

SITE ID: BA61730S

PROJECT TYPE: HARDENING

VB: BRENTWOOD MONOPOLE

280 CAMINO DIABLO **BRENTWOOD, CA 94513**

Central Contra Costa Fire District - (925) 941-3300

Structural Reviewed

PROJECT DESCRIPTION

THIS IS AN UNMANNED WIRELESS TELECOMMUNICATION FACILITY FOR T-MOBILE. SCOPE OF WORK CONSISTS OF THE FOLLOWING:

- INSTALL (1)(N) DIESEL GENERATOR
 INSTALL (1)(N) RAISED GENERATOR CONCRETE PAD
 INSTALL (1)(N) AUTOMATIC TRANSFER SWITCH (ATS)
 INSTALL (1)(N) PORTABLE FIRE EXTINGUISHER INSIDE (N) FIRE EXTHIGUISHER CABINET
 REPLACE PORTION OF (E) CHAIN-LINK FENCE WITH (N) GATE

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CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES, NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK HOT CONFORMING TO THESE CODES.

- 1) 2019 CALIFORNIA BUILDING CODE (CBC)
- 2) 2019 CALIFORNIA RESIDENTIAL CODE (CRC)
- 3) 2019 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
- 4) 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC) 5) 2019 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CGBSC)
- 6) 2019 CALIFORNIA FIRE CODE (CFC)
- 7) 2019 CALIFORNIA MECHANICAL CODE (CMC) B) 2019 CALIFORNIA PLUMBING CODE (CPC)
- 9) 2019 CALIFORNIA ELECTRICAL CODE (CEC)
- 10) 2019 CALIFORNIA ENERGY CODE (CEC) 11) 2018 NFPA 101, LIFE SAFETY CODE
- 12) 2016 NFPA 72, NATIONAL FIRE ALARM CODE AS AMENDED BY CA
- 13) 2016 NFPA 13, FIRE SPRINKLER CODE AS AMENDED BY CA

OCCUPANCY AND CONSTRUCTION TYPE

CONSTRUCTION TYPE: -

ACCESSIBILITY REQUIREMENTS

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, ACCESSIBILITY ACCESS AND REQUIREMENTS ARE NOT REDUIRED, IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, PART 2, TITLE 24, SECTION 1103B.1. EXCEPTION 1 & SECTION 1134B.2.1. EXCEPTION 4.

RADIO FREQUENCY DATA PLAN

REVISION LEVEL

GENERAL CONTRACTOR NOTES

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 24" x 36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOBSTIE AND SHALL MANEDIATELY NOTEY THE ACHITECT/FENDERE IN WRITING OF ANY DISCREPANCES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.



PROJECT TEAM

APPLICANT/LESSEE:

T-MOBILE 1200 CONCORD AVENUE, SUITE 500 CONCORD, CA 94520

APPLICANT/ENGINEER:

THE CBR GROUP
2840 HOWE ROAD, SUITE E
MARTINEZ, CA 94553
PH: (925) 246-3212
EMAIL: tmoprojects@thecbrgroup.com

PROJECT INFORMATION

UNMANNED TELECOMMUNICATIONS FACILITY

PROPOSED USE:

UNMANNED TELECOMMUNICATIONS FACILITY

STRUCTURE TYPE:

APN: 003-020-010

LATITUDE:

37.873305

LONGITUDE: -121.684222

JURISDICTION:

CONTRA COSTA COUNTY

PROPERTY OWNER:

POWER AGENCY:

PG&E 245 MARKET STREET SAN FRANCISCO, CA 94105

TELEPHONE AGENCY:



STRUCTURE PHOTO



GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST EDIT AND ALL OTHER APPLICABLE CODES AND ORDINATES.
- CONTRACTOR SHALL VISIT THE JOB SITE TO BECOME FAMILIAR HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. AFFECIENCE THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL ALSO BE RESPONSIBLE TO BECOME FAMILIAR WITH THE CONTRACT DOCUMENT: FIELD CONDITIONS AND DIMENSIONS AND CONTRIVING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY DISCREPANCIES SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER OF PECOPD PRIOR TO THE COMMENCEMENT OF WORK. MO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF THE KNOWLEDGE OF THE FIELD COMPTIONS.
- 3. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATION AS INDICATED ON THE DRAWNOS. OWNER PROVIDED MATERIALS WILL INCLUDE THE FOLLOWING BUT HOT LIMITED TO, UNLESS NOTED OTHERWISE:

 - B) RADIOS
 - TOWER-MOUNTED AMPLIFIERS (TMA)

 - D) MULTIPLEXERS
 CABLES (COAX, HCS, JUMPERS)
 ENCLOSURES AND BASEBAIDS
- DIMENSIONS SHOWN ARE TO BE FINISH SURFACED UTILESS OTHERWISE NOTED. SPACING BETWEE EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITION AND/OR DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE WORK.
- DETAILS ARE INTERIDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK
- CONTRACTOR SHALL RECEIVE CLARIFICATION IN VIRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY HEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACTOR DOCUMENTS.
- CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS. TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHIA REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THIER WORK WITH THE WORK OF OTHERS
 AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTION OF THE WORK.
- 12. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS PIPING ETC. AND IMMEDIATELY REPAIR ANY DAMAGE THAT OCCUPS DURING CONSTRUCTION.
- 14. IN DRILLING HOLES HITO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSED, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., MUST BE CLEARLY UNDERSTOOD THAT REINFORCING STEEL SHALL NOT BE DRILLED HITO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES (UNLESS NOTED OTHERWISE). LICOATIONS OF REINFORCING STEEL ARE NOT DETRIFIED KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT.
- REPAIR ALL EXISTING WALL SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACES.
- SEAL PENETRATIONS THROUGH FIRE RATED AREA WITH U.L. LIST AND FIRE CODE APPROVED MATERIALS.
- 17. KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH, EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE PERMOVED. LEAVE PREMISE IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY MATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NEMS UNTIL COMPLETION OF CONSTRUCTION.
- 18. MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
- 19. ALL EXISTING MIACTIVE SEWER, WATER, GAS ELECTRIC, AND OTHER UTILITY, 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 APPLICABLE REGULATORY AUTHORITIES.
- 20. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH JURISDICTION OF STATE AND LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATE WITH LOCAL REGULATORY AUTHORITIES.
- ALL CONSTRUCTION IS TO ADHERE TO T-MOBILE INTEGRATED CONSTRUCTION STANDARDS UNLESS CALIFORNIA CODE IS MORE STRINGENT.
- 22. THE INTENT OF THE PLANS AID SPECIFICATIONS TO PERFORM THE CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARDS CODE, TITLES 19 AND 24, CALIFORNIA CODE OF REGULATIONS SHALL ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED PLAIS AND SPECIFICATIONS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE JURISDICTION BEFORE PROCEEDING WITH THE WORK.

SPECIAL INSPECTION NOTES:

- SPECIAL INSPECTION IS REQUIRED FOR THE INSTALLATION OF HILTI STAINLESS STEEL ANCHOR BOLTS ACCORDING TO ICC.—ESR—1917 SEC. 4.4. THE INSTALLATION OF ANCHOR BOLTS BY OTHER MAIUTACTURERS ARE NOT ALLOWED.
- HILTI ANCHORS SHALL BE INSTALLED IN NORMAL WEIGHT CONCRETE WITH A MINIMUM CONCRETE STRENGTH OF 2,500 PSI AT 28 DAYS. UNDER NO CIRCUMSTANCES SHALL THE ANCHORS BE INSTALLED IN MASONRY CONCRETE.
- HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLTS, DOWEL OR ROD.
- 4. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION OF HILTI ANCHORS DOES NOT CUT THE EXISTING REBARS IN CONCRETE. ANY ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.

GENERAL RF NOTES:

- ALL ANTENNAS AND ANTENNA CABLES SHALL BE FURNISHED BY THE CELL CARRIER AND INSTALLED BY ANTENNA INSTALLATION CONTRACTOR.
- PRIOR TO INSTALLATION OF ANTENNAS, THE CONTRACTOR SHALL VERIFY THAT THE AZIMUTH AND DIMENSIONS SHOWN ON THE PLANS MATCH ACTUAL FIELD CONDITIONS.
- ANTENNA INSTALLATION CONTRACTOR SHALL PROVIDE ALL CONDUIT, CABLE TRAYS, GROUND KITS, CLAMPS, GROUNDS, ETC., FOR COMPLETE INSTALLATION OF ANTENNAS AND CABLES SHOWN AND INTENDED AS REQUIRED FOR A COMPLETE OPERATING SYSTEM IN ACCORDANCE WITH T-MOBILE WIRELESS STANDARDS.
- ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC WITH STEEL BENDS. ALL EXPOSED CONDUIT
 ABOVE GRADE LEVEL SHALL BE MMC (INTERMEDIATE METAL CONDUIT) OR RIGID GALVANIZED. ALL EXPOSED
 CONDUIT PROTECTED IN A BUILDING OR ON A ROOF SHALL BE EMT (ELECTRICAL METALLIC TUBING) OR UV-STABILIZED, PAINTED, SCHEDULE BO PVC.
- 5. IN High TRAFFIC AREAS OR WHERE SUSCEPTIBLE TO DAMAGE, CONTRACTOR SHALL PROVIDE FORMED 14-GA GALYAMIZED SHEET METIAL COVER CORALL CABLE ROUTES. WHERE CABLE IS RUN ON THE WALL ATTACH LUNISTRUT TO WALL AND COVER WITH 14-GA GALYANIZED FORMED SHEET METAL COVER OR MATERIAL AS DIRECTED BY T-MOBILE WIRELESS PROJECT MANAGER.
- VERIFY ROUTE AND LEHIGTH OF CABLE PRIOR TO CUTTING. ADJUST INDICATED ROUTE AS REQUIRED CLEAR EXISTING OBSTRUCTIONS AND MAINTAIN REQUIRED CLEARANCE FROM EXISTING EQUIPMENT AND FACILITIES.
- MAXIMUM LENGTH OF 7/8" COAXIAL CABLE SHALL BE 140 FEET. MAXIMUM LENGTH OF 1-5/8" COAXIAL CABLE SHALL BE 240 FEET.
- 9. VERIFY MODEL NUMBERS OF ANTENNAS WITH T-MOBILE WIRELESS SERVICES.
- 10. THE CONTRACTOR SHALL PROVIDE TESTING OF ANTENNAS AND SHALL PROVIDE DOCUMENTATION TO THE CELL CARRIER PROJECT MANAGER.
- INSTALL EMBOSSED ALUMINUM IDENTIFICATION TAGS AT THE END OF THE MAIN COAXIAL CABLE RUNS, ALONG WITH THE END OF THE JUMPER CABLE LOCATED WITHIN THE PLINTH SECTION OF THE BTS UNIT.

SITE WORK NOTES

- 1. DO NOT EXCAVATE OR DISTURB THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- 2. DO NOT SCALE BUILDING DIMENSIONS FROM DRAWING.
- SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY HOLDED AND PACED ON AS-BUILD DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/PENDERER AT COMPLETION OF PRODECT.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENCINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSGEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANMER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO DETAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTMENT EVISIONS LITTLES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR SOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH AS INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER DINN RISK AND EXPENSE. CONTRACTOR SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO CONSTRUCTION.
- 6. ALL NEW AID EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINIAL INSPECTION OF WORK.
- GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS.
- 8. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC. SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSMA) REQUIREMENTS.
- STRUCTURAL FILES SUPPORTING PAVEMENT SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
- NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
- 11. ALL FILLS SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
- 12. ALL FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEO-TECHNICAL ENGINEER.
- 13. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT HO PAPERS, TRASH, WEEDS, BRUSHES OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
- ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
- 15. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS

ENVIRONMENTAL NOTES

- CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE
 OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT
 PROPERTIES, ROADWAYS AND WASTERWAYS AND SHALL BE MAINTAILED IN PLACE THROUGH FINAL
 JURISDICTIONAL BISPECTION & RELEASE OF SITE.
- CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
- NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURED FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE ROURGED IN ANY PAREAS. SUBJECT TO GROSION.
- THE CONTRACTOR IS PESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSION CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE. AIRY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTOR EXPENSE.

- CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
- CLEANING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
- 9. CONTRACTOR SHALL PROVIDE ALL EPOSION AND SEDMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANAMENTS FROM SOIL LOSS AND PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILV FENCES, STRAW BALE
- 10. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM III QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIBJE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

FOUNDATION, EXCAVATION AND BACKFILL NOTES

- 1. ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL.
- 2. ALL EXCAVATIONS PREFARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOIL, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEI SOILS, AND MITHOUT THE PRESENCE OF POUNDING WATER. DEVATEMING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
- 3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNISUITABLE MATERIAL. IF INADEQUATE BEARNO CAPACITY IS REACHED AT THE DESIGNED EXCAVATION DEPTH, THE URSALTISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB-BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
- 4. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND ALSO FORTH PRIOR TO BACK FILLING. BECK-FILL SHALL CONSIST OF APPROVED MATERIAL SUCH AS EARTH, LOAM, SANDY CLAY, SAND, AND GRAVEL, OR SOFT SHALE, FREE FROM CLOSS OR LARGE STONES OVER 2-1/2" MAX DIMENSION. ALL BACK FILL SHALL BE PLACED IN
- ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AID COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM 01557.
- 6. NEWLY PLACED CONCRETE FOUNDATION SHALL CURE A MINIMUM OF 72 HOURS PRIOR TO BACK-FILL.
- 7. FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FIRMAL (FINISH) ELEVATION OF SLAB FOUNDATION SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE FANS SHALL BE A MINIMUM OF 4 INCHES ABOVE TIMISH GRADE CITYLINGS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
- 8. NEWLY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: TYPAR-3401 AS MANUFACTURED BY "CONSTRUCTION MATERIAL 1-800-239-384" OR AN APPROVED EQUIVALENT, SHOWN ON FLANS, THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENCE OF VEGETATIVE GROWN AND EXTEND TO WITHIN I FOOT OUTSIDE THE SITE FEMCING OR ELECTRICAL GROUNDING SYSTEM PERMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMALM OF 4" DEEP COMPACTED STOILE OR GRAVEL AS SPECIFIED, I.E. FDOT TYPE NO. 57 FOR FENCED COMPOUND, FDOT TYPE NO.67 FOR ACCESS DRIVE
- IN ALL AREAS TO RECEIVE FILL, REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, DESTRUCTIONS, AND DELETEROUS MATERIALS FROM VERTICAL TO 4 HORIZONTAL SUCH AS THAT FILL MATERIAL WILL BIND WITH ENSITING/PREPARED SOIL SURFACE.
- 10. WHEH SUB-GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARRY THE GROUND SURFACE TO DEPTH REQUIRED, PULYERIZE, MOISTURE—CONDITION AND/OR ARRATE THE SOIL AND RECOMPACT TO THE REQUIRED DENSITY PRIOR
- 11. IN AREAS WHICH EXISTING GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.
- 12. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AN REUSED WITH THE COLIDITION THAT ANY UNFAVORABLE AMOUNTS OF ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSED. FURNISH ANY ADDITIONAL GRAVEL RESURFACING MATERIAL AS NEEDED TO PROVIDE A FULL DEPTH COMPACTED SURFACE THROUGHOUT SITE.
- 13. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THROUGHOUT COMPACTED AND ANY DEPRESSIONS IN THE SUB-CRADE SHALL BE FILED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT USED FOR FILLING DEPRESSIONS IN THE SUB-GRADE.
- 14. PROTECT EXISTING GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING "MATTS" OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR ANT DAMAGE TO EXISTING GRAVEL. SURFACING OR SUB-GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS.
- 15. DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE
- 16. ALL SUITABLE BORROW MATERIAL FOR BACKFILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE INFROSED OF OFF-SITE AT LOCATIONS APPROVED BY GOVERNING ACENCIES AT NO ADDITIONAL COST TO THE CONTRACT.



Date 2-27-24

repared For

T - Mobile-1200 CONCORD AVENUE, SUITE 500 CONCORD, CA 94520

Engineer:



2840 HOWE ROAD, SUITE E MARTINEZ, CA 94553 www. TheCBRGroup.com

T-Mobile ID Site Name:

BA61730S

VB: BRENTWOOD MONOPOLE

Site Address:

280 CAMINO DIABLO BRENTWOOD, CA 94513

Issued For: CONSTRUCTION 07/29/2022 100%CDs FOR REVIEW 06/28/2022 90%CDs FOR REVIEW DATE DESCRIPTION

Jurisdiction:

UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.



OF A LICENSED PRO

GENERAL NOTES

Sheet Number



1. CONTRACTOR TO PROVIDE REQUIRED SIGNAGE FOR ELECTRICAL PANELS, DISCONNECTS, TRANSFER SWITCHES, ETC. PER CEC ARTICLE 702.7



SIZE: 7" X 10" LOCATION: PLACE ON TWO (2) VISIBLE SIDES OF GENERATOR TANK



SIZE: 7" X 10" LOCATION: PLACE OH TWO (2) VISIBLE SIDES OF GENERATOR TANK

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SIZE: 5" X 3" LOCATION: PLACE NEAR GENERATOR E-STOP

EMERGENCY CONTACTS:

T-MOBILE CONTACT:

(XXX) XXX-XXXX

SITE OWNER CONTACT: NAME (XXX) XXX-XXXX PHONE #:

SIZE: 5" X 3" LOCATION: PLACE ON EXTERIOR T-MOBILE LEASE AREA

FOR FUEL & OTHER **ENVIRONMENTAL EMERGENCIES** CALL EH&S 1-800-566-9347 (1-800-KNOW-EHS)

SIZE: 11" X 11" LOCATION: PLACE ON TWO (2) VISIBLE SIDES OF GENERATOR TANK

FIRE DEPARTMENT NOTES:

- UNDER THE T-MOBILE PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HILT" HIGH-PERFORMANCE FIRE STOP SYSTEM #FS601 AT ALL FIRE-RATED PENETRATION INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATION.
- ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.
- BUILDING UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH CFC CHAPTER 33 (FIRE SAFETY DURING CONSTRUCTION & DEMOLITION).
- NOTE AND EXISTING BUILDINGS SHALL BE PROVIDED WITH APPROVED ADDRESS IDENTIFICATION. THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLAZD IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. ADDRESS IDENTIFICATION CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND. (CFC SECTION 505 PREMISES IDENTIFICATION)
- 5. DECORATIVE MATERIALS SHALL BE MAINTAINED IN ACCORDANCE WITH CFC CHAPTER 8.
- VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS, PUMPS, TANKS, WATER LEVELS AND TEMPERATURES, CRITICAL AIR PRESSURES, AND MATERICOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY SUPERVISED BY A LISTED FIRE ALARM CONTROL UNIT. (CFC SECTION 903.4)
- 7. INSTALLATION OF FIRE ALARM SYSTEMS SHALL BE IN ACCORDANCE WITH CFC SECTION 907.
- PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ACCORDANCE WITH CFC SECTIONS 906.1 & 906.2 AND CALF. CODE OR REGULATIONS TITLE 19, DIVISION 1, CHAPTER 3.
- CONTRACTOR SHALL VERIFY IN FIELD THE EXISTENCE OR INSTALLATION OF A FIRE EXTINGUISHER WITH A MINIMUM RATING OF A 2A-10BC, WITH A CHARGE STATUS ACCEPTABLE TO THE LOCAL FIRE AUTHORITY HAVING JURISDICTION.
- 10. COMPLETE PLANS AND SPECIFICATIONS FOR ALARM SYSTEMS FIRE—EXTINGUISHING SYSTEMS, INCLUDING AUTOMATIC SPRINKLERS AND OTHER FIRE—PROTECTION SYSTEMS SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL IN INSTALLATION. (CFC SECTION 901.2)
- 11. AT NO TIME WILL ANY FLAMMABLE OR COMBUSTIBLE LIQUID WILL BE STORED ON SITE.
- 12. THE AREA NEEDS TO BE CLEAR OF WEEDS, GRASS, BRUSH, TRASH, AND ANY OTHER COMBUSTIBLE MATERIALS WITH A MINIMUM TO TEN (10) FEET IN ALL DIRECTIONS FROM GENERATOR.

1 FIRE DEPARTMENT NOTES

repared For:

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MARTINEZ, CA 94553 www. TheCBRGroup.com

BA61730S

VB: BRENTWOOD MONOPOLE

Site Address:

Site Name:

280 CAMINO DIABLO BRENTWOOD, CA 94513

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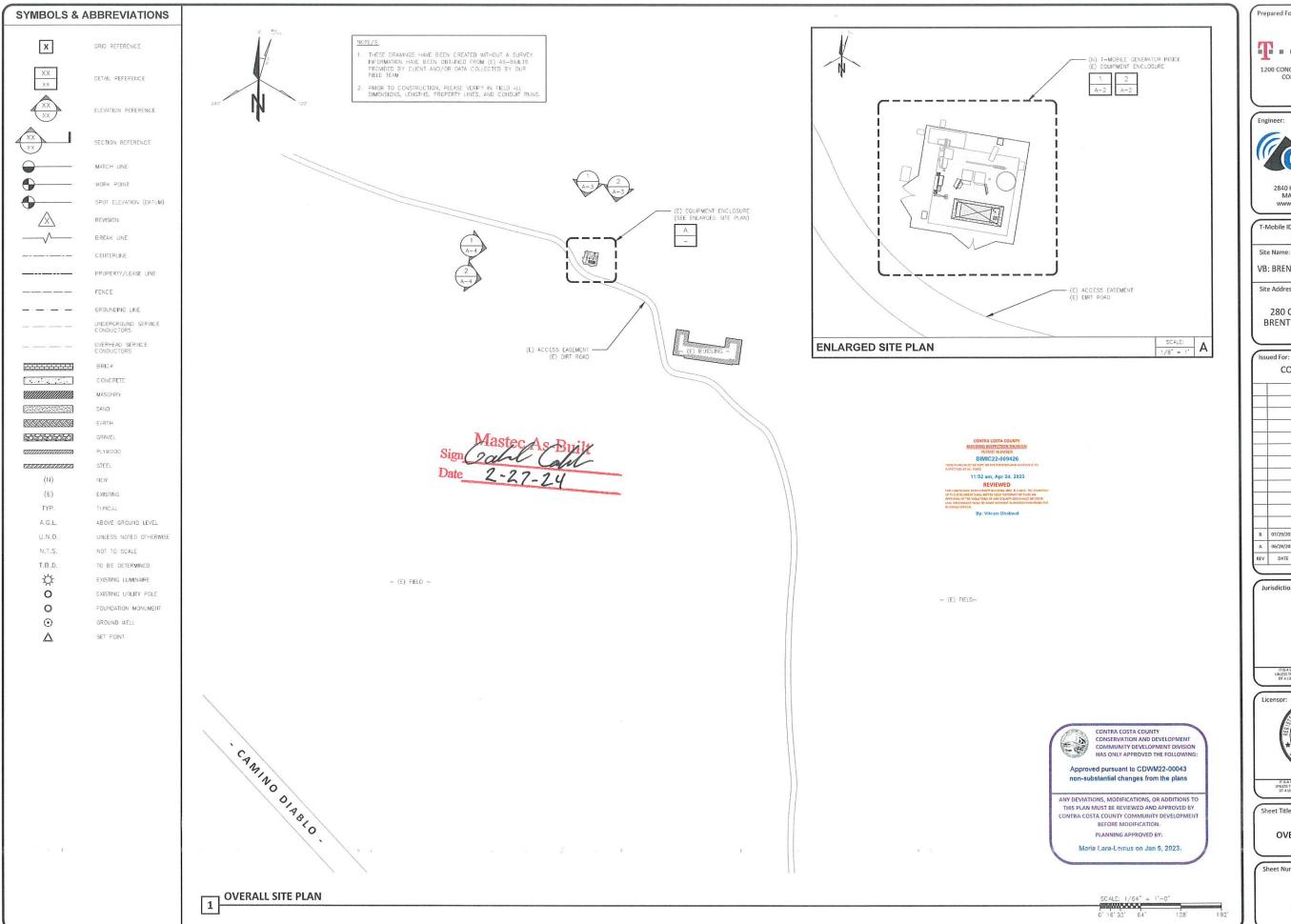


SITE SIGNAGE

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GN-2

7 GENERATOR SIGNAGE



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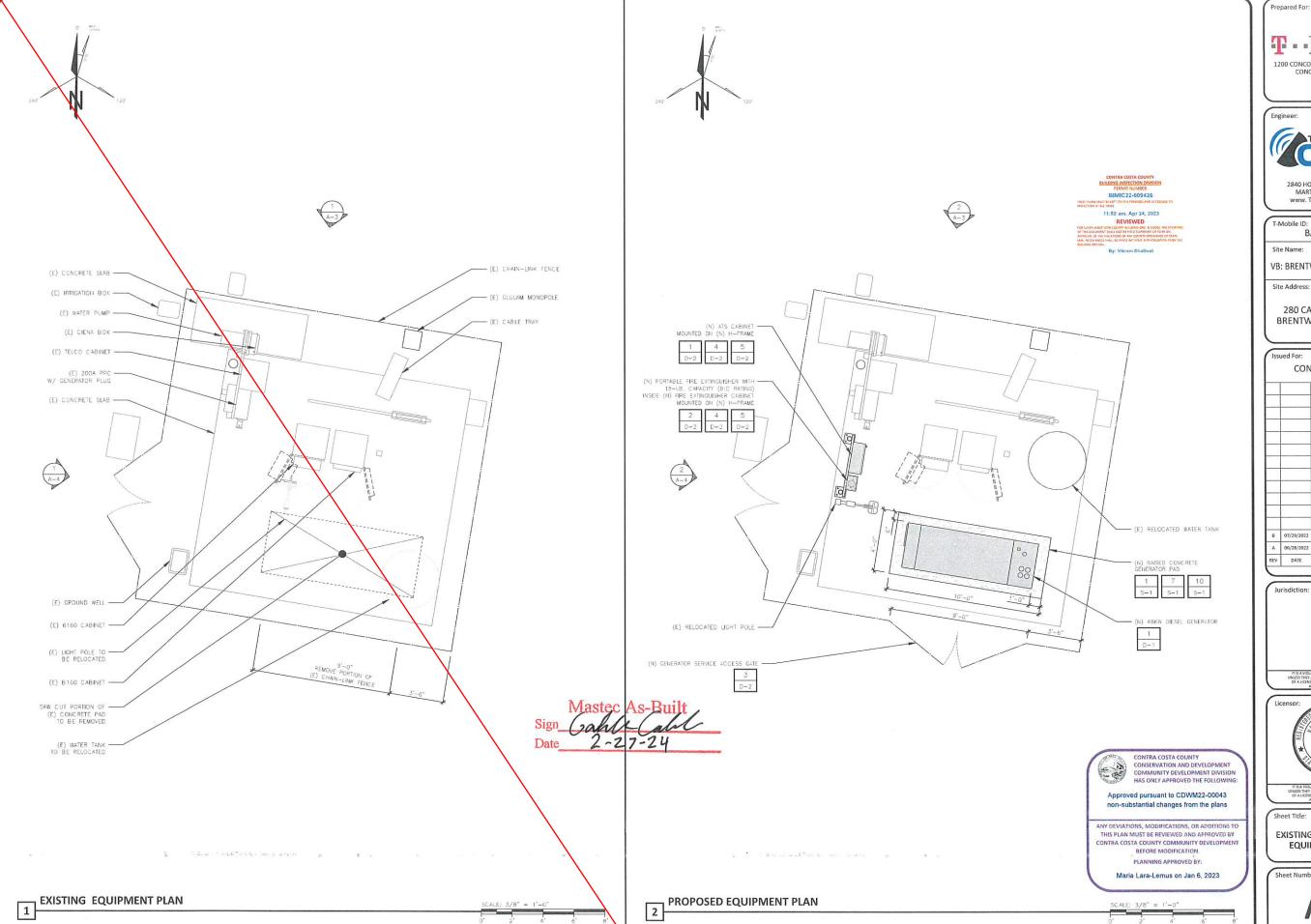
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OVERALL SITE PLAN

Sheet Number:

A-1



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EXISTING AND PROPOSED **EQUIPMENT PLANS**

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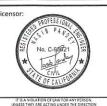
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CONSTRUCTION

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EXISTING AND PROPOSED **ELEVATIONS (NORTHEAST)**

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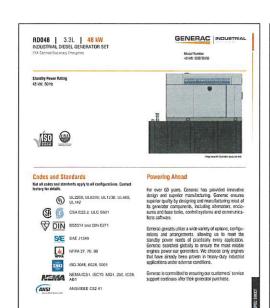
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EXISTING AND PROPOSED **ELEVATIONS**

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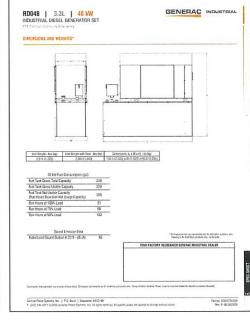


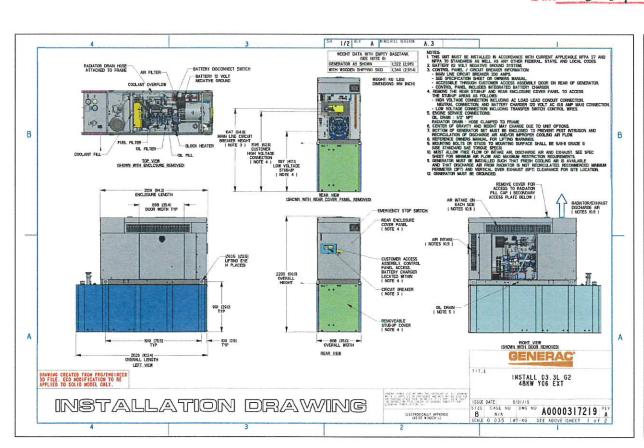






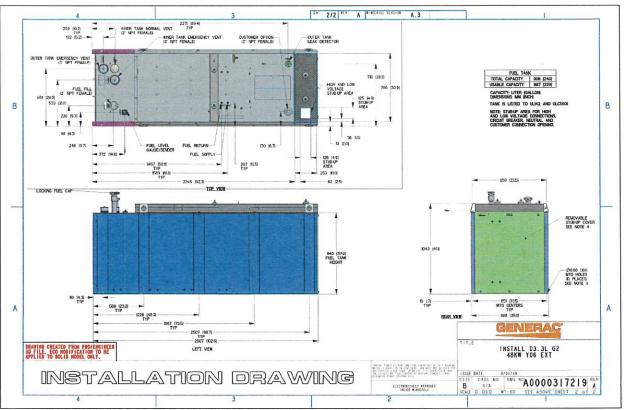
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Engineer:

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Site Name:

VB: BRENTWOOD MONOPOLE

te Address:

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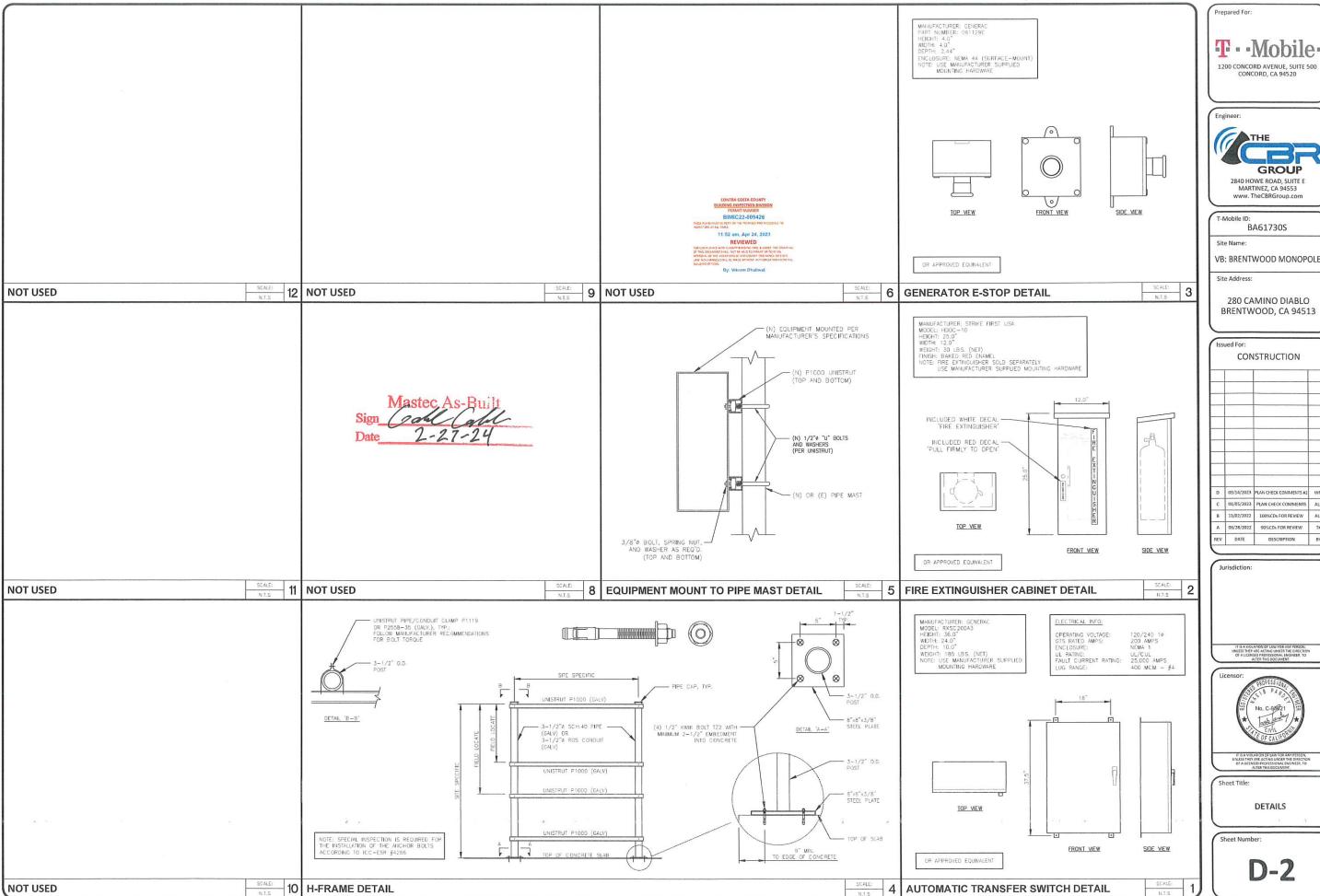
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GENERATOR CUTSHEET

SCALE:

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DETAILS

D-2

GENERAL STRUCTURAL NOTES:

DESIGN CRITERIA PER SECTION 1603A IN CBC 2019

- 1. BASIC DESIGN WIND SPEED, V. MILES PER HOUR = 93 2. RISK CATEGORY = II 3. EXPOSURE CATEGORY = C

SEISMIC

- 5. SEISMIC IMPORTATICE FACTOR, $I_{\rm E}=1.0$ 5. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, $S_{\rm S}=1.484~\&~S_1=0.5216$
- 7. SITE CLASS = D
 8. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS, $S_{\rm DS}$ = 1.188 & $S_{\rm D1}$ = 0.59
- SPECIFIC HOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- LOADS TO THE BUILDING AND/OR EXISTING STRUCTURES EXCEEDING THE LOADS INDICATED ON THE PLANS, OR AIM LOADS EXCEEDING 400 LBS. THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE ENGINEER-ON-PECORD.
- THE STRUCTURAL DRAWINGS SHOW THE REQUIREMENTS FOR THE COMPLETED STRUCTURE ONLY. TEMPORARY WORKS REQUIRED TO COMPLETE THE CONSTRUCTION PROCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER-ON-RECORD SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF FIELD VERIFICATION OF TEMPORARY AND ANCILLARY WORK,
- THE RESPONSIBILITY FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, UNDERPINNING, AND SHORING REQUIRED TO SAFELY RETAIN ALL GRADES AND STRUCTURES SHALL
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON A STRUCTURE. LOADS SHALL NOT EXCED THE DESIGN LIVE LOAD INDICATED. WHERE THE STRUCTURE HAS NOT ATTAINED FINAL DESIGN STRENGTH, ADEQUATE SHORING AND/OR BRANDING SHALL BE INSTALLED.

SPECIAL INSPECTION NOTES:

- SPECIAL INSPECTION IS REQUIRED FOR THE INSTALLATION OF HILTI ANCHOR BOLTS ACCORDING TO ICC-ESR-4868. THE INSTALLATION OF ANCHOR BOLTS BY OTHER MANUFACTURERS ARE NOT
- HILTI ANCHORS SHALL BE INSTALLED IN NORMAL WEIGHT CONCRETE WITH A MINIMUM CONCRETE STRENGTH OF 2,500 PSI AT 28 DAYS. UNDER NO CIRCUMSTANCES SHALL THE ANCHORS BE INSTALLED IN MASONRY CONCRETE.
- HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLTS, DOWEL OR ROD.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION OF HILTI ANCHORS DOES NOT CUT THE EXISTING REBARS IN CONCRETE. ANY ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.

STRUCTURAL STEEL

- ALL STEEL WORK SHALL BE IN ACCORDANCE WITH STEEL CONSTRUCTION MANUAL, 15th EDITION AND ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT-DIPPED GALVANIZED. FILL MODIFICATIONS ARE TO BE COARD WITH ZING-EHRICHED PAINT.
- STEEL SECTIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM STANDARDS:

 ANGLE, BARS, AND CHANNELS: ASTM A36, 36 KSI
 NS-SHAPES: ASTM, 1992, 30 KSI
 HSS SECTOR: ASTM A53-E, 35 KSI
- ALL WELDING SHALL BE PERFORMED USING E70 (LOW HYDROGEN) ELECTRODES BY AWS CERTHED WELDERS. WELDING SHALL CONFORM TO AISC AND THE LATEST EDITION OF AWS D1.1. WHERE FILET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SUFFACES SHALL BE
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS
 UNLESS NOTED OTHERWISE. BOLTED CONNECTIONS SHALL BE ASTM A328 BEARING TYP. 3/4"
 DIA. CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL COLD—GALVANIZE ALL RAW STEEL AS REQUIRED DURING CONSTRUCTION
 PROCESS.

FOUNDATION, EXCAVATION AND BACKFILL NOTES

- 1. ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL.
- ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCPETE SHALL BE OF UNDISTURBED SOIL, SUBSTANTIALLY HORIZOITAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OF FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED, COMPACTION OF SOILS UNDER CONCRETE PAD FOLIDIATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DEWSTY FOR THE SOIL IN ACCORDANCE WITH ASTIM D1557.
- 3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON DRGANIC OR UNSUITABLE MATERIAL. IF INADEQUATE BEARING CAPACITY IS REACHED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRAVULAR MATERIAL OF THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF SAME TYPE SPECIFIED FOR THE FOUNDATION, CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB-BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
- 4. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND ALSO FORTH PRIOR TO BACK FILLING. BACK-FILL SHALL CONSIST OF APPROVED MATERIAL SUCH AS EARTH, LOAM, SANDY CLAY, SAND, AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2-1/2" MAX DIMENSION. ALL BACK FILL SHALL BE
- ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM B" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO INTIL LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DEHSITY FOR SOIL III ACCORDANCE WITH ASTM D1857.
- HEWLY PLACED CONCRETE FOULIDATION SHALL CURE A MINIMUM OF 72 HOURS PRIOR TO BACK-FILL.
- FINISHED CRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRANAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATION SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH CARDE OF CONCRETE PADS SHALL BE A MINIMUM OF 4 INCHES ABOVE TRINSH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE PROJURED.
- 8. HEWLY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FARRIC TYPE: TYPAR-3401 AS MANUFACTURED BY "CONSTRUCTION MATERIAL 1-800-239-388" OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FARRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENCE OF VECETATIVE GROWN AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROWINGS SYSTEM PERMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECHED, IE. FOOT TYPE NO. 57 FOR FENCED COMPOUND, FOOT TYPE 10.67 FOR ACCESS DRIVE AREA.
- 10. WHEN SUB-GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARRY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOIL AND RECOMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
- 11. IN AREAS WHICH EXISTING GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION AS SPECIFIED, ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.
- 12. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AN REUSED WITH THE CONDITION THAT ANY UNFAVORABLE AMOUNTS OF ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOF TO REUSED. FURNISH ANY ADDITIONAL GRAVEL RESURFACING MATERIAL AS IEEEDE TO PROVIDE A FULL DEPTH COMPACTED SURFACE THROUGHOUT SITE.
- 13. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BETORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. AIM LOOSE OF DISTURBED MATERIALS SHALL BE THOOGHOUT COMPACTED AND ANY DEPRESSIONS IN THE SUB-GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL, GRAVEL SURFACING MATERIAL SHALL NOT USED FOR FILLING DEPRESSIONS IN THE SUB-GRADE.
- 14. PROTECT EXISTING GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING "MATTS" OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR ANT DAMAGE TO EXISTING GRAVEL SURFACING OR SUB-GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS.
- 15. DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTOR'S HEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.

16. ALL SUITABLE BORROW MATERIAL FOR BACKFILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE AT LOCATIONIS APPROVED BY GOVERNING ACENCIES AT NO ADDITIONAL COST TO THE CONTRACT.

CONCRETE AND REINFORCING STEEL

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CAMPTER 19 OF THE BUILDING CODE, ACI 318-16, ACI 301-16 AND THE CAST-IN-PLACE CONCRETE SPECIFICATIONS.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
- 3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE.
- DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL BE PRE-FORMED IN ACCORDANCE WITH ACI 315 (DETAILS AND DETAILING OF CONCRETE REINFORCEMENT).
- 5. REINFORCING STEEL SHALL CONFORM TO ASTM AG15, GRADE 60, UILLESS NOTED OTHERWISE. 6 LAP SPLICES CLASS "8" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
- 7. WATER MAY BE ADDED TO CONCRETE ON-SITE TO OBTAIN SPECIFIED SLUMPS PROVIDED THAT IT IS ADDED WITHIN ONE HOUR OF BATCHING AND SITE—ADDED WATER IS SPECIFIED ON THE BATCH REPORT. SITE—ADDED WATER SHALL HOT COMPROMISE THE STRENGTH OR SLUMP OF THE COMPOSET
- 8. CONCRETE SHALL NOT BE PLACED BEYOND 1-1/2 HOURS FOLLOWING BATCHING
- 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.
- 10. WHERE CONCRETE IS PLACED AGAINST EXISTING CONCRETE SURFACES, THE EXISTING CONCRETE SURFACES SHALL BE THOROUGHLY CLEANED AND POUGHENED TO A JAINIMUM AMPLITUDE OF 1/4-INCH. A CONCRETE BONDING AGENT SHALL BE APPLIED TO THE EXISTING CONCRETE SURFACE.
- 11. READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- 12. FLYASH SHALL CONFORM TO ASIM C618, CLASS F. FLYASH SHALL BE LIMITED TO NO MORE THAN 20% OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS IN THE CONCRETE, UNLESS NOTED OTHERWISE.
- 13. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
- 14. NORMAL WEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 150 PCF.
- MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS, MAXIMUM SLUMPS, AND MAXIMUM WATER/CEMENT RATIOS SHALL BE 2,500 PSI, 4" +/- 1", AND 0.45.
- 16. SLUMPS INDICATED ARE PRIOR TO PLASTICIZER ADDITIVES.
- 17. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED.
- 18. CONCRETE COVER FOR REINFORCEMENT STEEL SHALL BE ACCORDING TO

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CONCRETE EXPOSURE	MEMBER	REINFORCEMENT

CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
PERMANENTLY IN CONTACT WITH GROUND EXPOSED TO WETHER OR IN CONTACT WITH GROUND ALL SLABS, JOIST OR IN CONTACT WITH GROUND BEAMS, COL		NO.6 THROUGH NO.18 BARS	2
	ALL	NO.6 THROUGH	1-1/2
	SLABS, JOISTS, AND		1-1/2
NOT EXPOSED TO WEATHER	WALLS		3/4
	BEAMS, COLUMNS PEDESTALS, AND TENSION TIES	REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND	1-1/2

CONCRETE MASONRY

- MORTAR SHALL BE HAVE TYPE "S" WITH A MINIMUM 1,800 PSI AT 28 DAYS. GROUT SHALL BE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS AND ALL GROUT SHALL BE CONSCUENCE WITH A MECHANICAL WIBERIOR.
- CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT (115 PCF) UNITS CONFORMS TO ASTM C90, GRADE N=1, I'M OF 1,500 PSI.
- J. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS. CELL SHALL BE IN VERTICAL ALICOMETET. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING STEEL. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
- 4. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED HEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOLID GROUTED. ALL HORIZONTAL REINFORCING STEEL SHALL BE PLACED IN BOND OR LINTEL BEAM UNITS.
- WHEN GROUTING IS STOPPED FOR ONE LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
- PROVIDE INSPECTION AND CLEAN OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
- PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
- SAND SHALL BE CLEAN, SHARP AND WELL GRADED, AND FREE FROM INJURIOUS AMOUNTS OF DUST LUMPS, SHALE, ALKAU OR ORGANIC MATERIAL.
- 9. BRICK SHALL CONFORM TO ASTM C-62 AND SHALL BE GRADE MW OR BETTER.

POST-INSTALLED ADHESIVE ANCHORS NOTES:

- SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
- ADHESIVE ANCHOR INSTALLERS SHALL BE TRAINED BY A QUALIFIED REPRESENTATIVE OF THE ADHESIVE MANUFACTURER ON THE PROPER PROCEDURES AND TECHNIQUES FOR INSTALLATION.
- ADHESIVE SHALL BE STORED ON THE JOBSITE IN A COOL, DRY LOCATION IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- 4. ADHESIVE ALICHORS SHALL NOT BE USED FOR OVERHEAD INSTALLATION.
- 5. POST -INSTALLED ADHESIVE ANCHORS SHALL BE AS FOLLOWS, U.N.O.

MATERIAL	ANCHOR
NW & LW CONCRETE	HILTI HIT-HY 200 (ESR-4868)

- THREADED RODS FOR ADHESIVE ANCHORS SHALL CONFORM TO ASTM F1554 GR 36, U.N.O. NUTS FOR ANCHOR RODS SHALL CONFORM TO ASTM A563, GR A HEX.
- ANHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDMENT, SPACING, AND EDGE DISTANCE) AS INDICATED ON THE DRAWINGS.
- 8. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURER'S PUBLISHED EVALUATION REPORT. HOLES SHALL BE CLEANED IN CONFORMANCE WITH THE AILCHOR MANUFACTURER'S INSTRUCTIONS.
- WHEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE OR MASONRY, AVOID CUITING OR DAMAGING THE EXISTING REINFORCING BARS.

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BA61730S

Site Name **VB: BRENTWOOD MONOPOLE**

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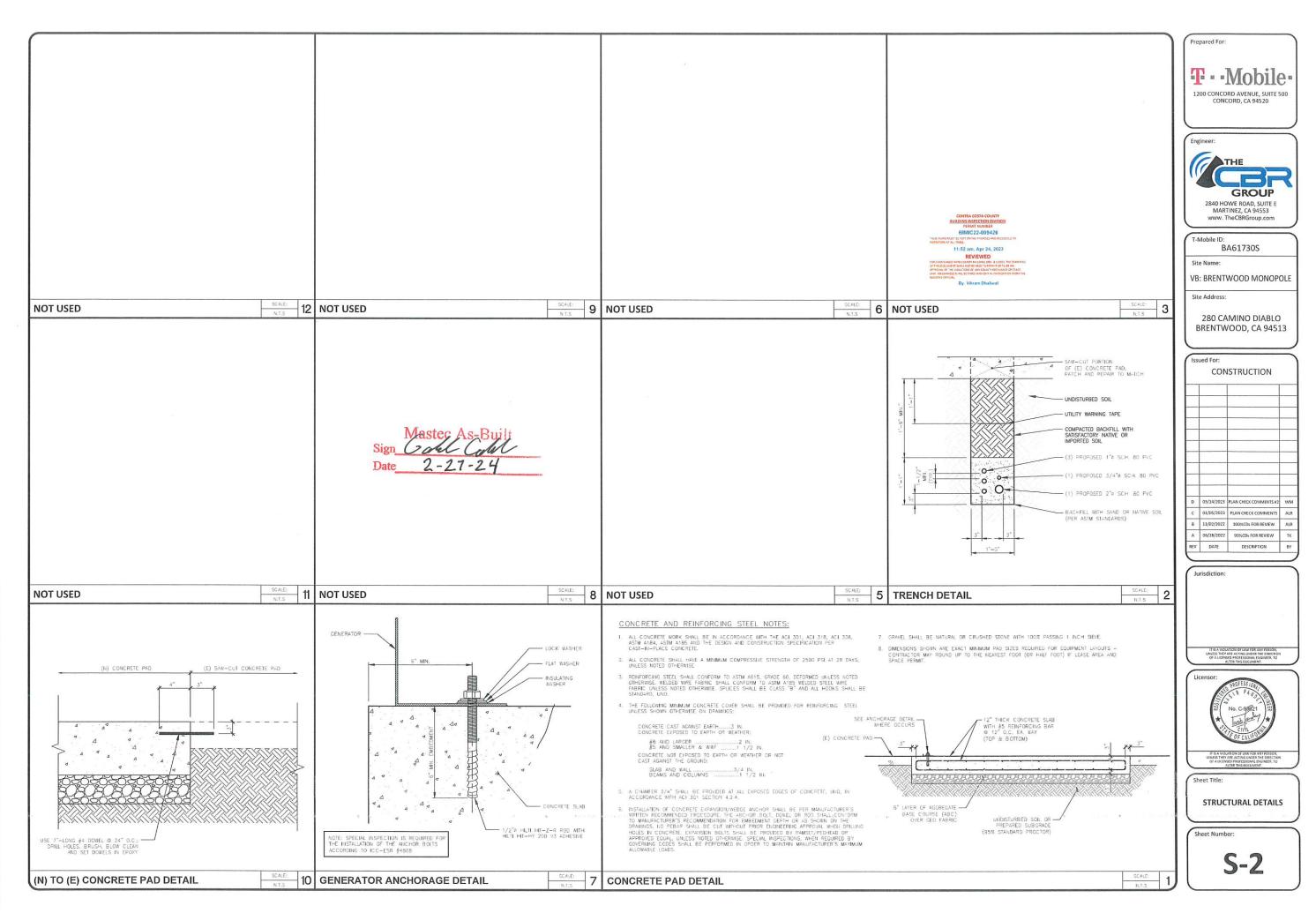
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Sheet Number

STRUCTURAL NOTES



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- 1. ELECTRICAL CONTRACTOR SHALL SUPPLY AID INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPAINING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY CONTRACTOR MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND THEMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND
 COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP,
 LIGHT FINTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERFIEDE BY THE CONTRACTOR, PRIOR TO THE
 SUBMITTING OF HIS BID, FALLURE TO COMPLY WITH THIS PARACRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING
 ALL WORK NECESSARY FOR A COMPLETE AUTO WORKING SISTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANGE WITH THE LATEST EDITION OF THE CEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT LIMITED

 - 3.

 JL UNDERWRITERS LABORATORIES

 B. GEG CALIFORNIA ELECTRICAL CODE

 C. NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC.

 D. OSHA OCCUPATIONAL SAFETY AND HEALTH ACT

 E. GEG CALIFORNIA BUILDING CODE
- 4. DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT, AND CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
- 5. EXISTING SERVICE: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICE WITHOUT WRITTEN PERMISSION OF THE OWNER.
- CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING, CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATED THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
- 8. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
- 10. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AUD INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED III PROPER WORKING ORDER.
- 12. ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY T-MOBILE.
- 1.3. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER, THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION
- 14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE OF ACCEPTANCE.
- 17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURING OF WORK.
- 18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS
- 19. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS, EXCAVATION, AND BACKFILLING.
- 21. CONTRACTOR SHALL SUBMIT SHOP DRAWING OR MANUFACTURERS CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- 22. AIY CUTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTOR RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE "CONSTRUCTION MANAGER" UPON FINAL ACCEPTANCE.
- 23. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 24. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES. AS REQUIRED BY
- 25. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NON-OXIDE ADDEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED NO SUBSTITUTIONS.
- 26. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 2020. CONTRACTOR SHALL PLUG AND CAP EACH END OF SHARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS 200 LBS TEST POLYETINENE CORD. ALL CONDUIT BEIDS SHALL BE A MINIMUM OF 2 FT. RACIDUS ROS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIDGE CONDUIT. COAT ALL THREADS WITH "SINTE ZINC" OR "SOLD GALV".
- 27. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY CEC
- 28. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER TYPE THWN.
 INSULATION, 800 VOLT, COLOR CODED, USE SOLID COMDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- 29. CONNECTORS FOR POWER CONDUCTORS, CONTRACTORS SHALL USE PRESSURE TYPE HISULATED TWIST-ON CONNECTORS FOR NO.10 AWG AND SMALLER USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- 30. SERVICE: 120/240V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
- 31. TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- 32. ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
- 33. CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL, AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM".

F 7:

1 PROPOSED GROUNDING PLAN

34. ALL BOLTS SHALL BE STAINLESS STEEL.



NOTE/S:

- (N) I—MOBILE EQUIPMENT TO BE GROUNDED TO EXISTING GROUNDING BAR USING #2—AWG SOLID BARE TILINED COPPER WIRE UNLESS OTHERWISE NOTED.
- 2. (E) GROUND WIRES ARE NOT SHOWN FOR



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UNLESS THEY ARE

Sheet Title:

CONTRA COSTA COUNTY

non-substantial changes from the plans

ANY DEVIATIONS, MODIFICATIONS, OR ADDITIONS TO

THIS PLAN MUST BE REVIEWED AND APPROVED BY CONTRA COSTA COUNTY COMMUNITY DEVELOPMENT

BEFORE MODIFICATION.

PLANNING APPROVED BY: Maria Lara-Lemus on Jan 6, 2023

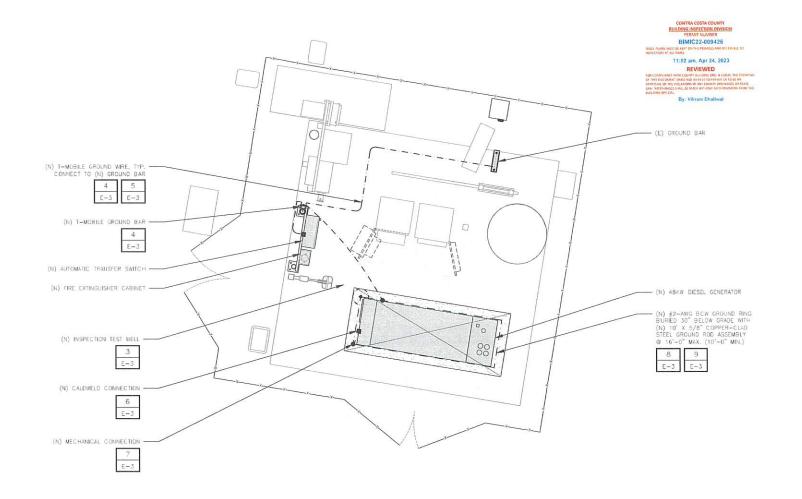
SCALE: 3/8" - 1'-0

CONSERVATION AND DEVELOPMENT COMMUNITY DEVELOPMENT DIVISION

HAS ONLY APPROVED THE FOLLOWING Approved pursuant to CDWM22-00043

> FLECTRICAL NOTES AND PROPOSED GROUNDING PLAN/S

E-1



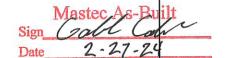
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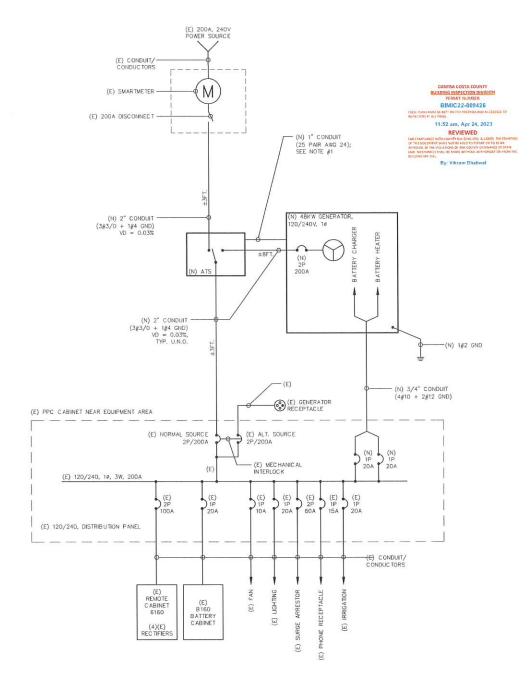
NOTES:

- 1. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH NEC, UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
- 2. WIRES TO END OF FLEXIBLE NONMETALLIC CONDUIT, COIL 3'-0" AT END OF FLEXIBLE NONMETALLIC CONDUIT & TAG.
- 3. PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT, FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR,
- 4. ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
- 5. EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.
- 6. KAIC OF NEW BREAKER (S) TO MATCH EXISTING.
- 7. CONTRACTOR TO VERIFY NUMBER AND SIZE OF ALL CIRCUITS REQUIRED WITH T-MOBILE PRIOR TO START CONSTRUCTION.

	LOAD				LOAD PER PHASE (VA)		TRIP LOAD PER PHASE (VA)		LOAD					
		DESCRIPTION DO S			PHASE		1		PHASE			DESC DIRTION		
	DESCRIPTION		POLE	A B		1 1		A B		POLE		DESC RIPTION		
	1	SPARE	1				60	3600		2		(E) SURGE ARRESTOR	7	
12	2	(E) B160 BATTERY CABINET	1	1200		20	60		3600			IE) SURGE ARRESTOR		
1	3	(N) BATTERY CHARGER	1		360	*20	100	8640		2		(E) REMOTE CABINET 6160		
(1)	+	(N) BATTERY HEATER	1	360		*20	100		8640			(E) NEMOTE CADINET 0100	10	
33.	5	(E) FAN	1		200	10	15	•180		1		(E) PHONE RECEPTACLE	11	
	6	(E) LIGHTING	1.	300		20	20		1000	1		(E) IRRIGATION	12	
			SUBTOTAL CONTINUOUS	1860	560			12240	13240	SUBTOTA		TOTAL VA CONTINUOUS (x 1.25)	34875	
		SUBTOTAL NON-CONTINUOUS		0	0			180	O SUBTOTAL NON-CONTINUOU			TOTAL VA NON-CONTINUOUS	180	
	PA	NEL DESIGNATION: ELECT	1)		MAIN L	UGS: 1	A/A							
	MAII	MAIN BREAKER: MAIN BREAKER A.I.C. RATING:			200 AMP		CYCLE:		VOLTAGE:	120/240	1	70711	T	
	MAH				65,000 A.I.C.			1				TOTAL VA	35055	
	BRA	BRANCH BREAKER A.I.C. RATING:			A.I.C.	WIRES:		3	NEUTRAL:	200 AMPS	1	TOTAL AMDC	146.1	
	BRANCH BREAKER TYPE:				-	MAIN C	OPPER	BUS:		200 AMP	1	TOTAL AMPS	146.1	

- ASSUMED LOAD FOR (E) BREAKER
- . (N) BREAKER IN (E) DISTRIBUTION PANEL
- (N) 20A-1P BREAKER AT POSITION 1 FOR (N) BATTERY CHARGER AND ADD (N) 20A-1P BREAKER AT POSITION 2 FOR (N) BATTERY HEATER.





NOTES:

- 1. FOR START-UP AND CONTROL, REFER TO SPECIFICATIONS OF GENERATOR AND ATS FOR CONNECTION.
- 2. THE GENERATOR IS FURNISHED WITH A DISTRIBUTION CIRCUIT BREAKER LOCKABLE IN THE OPEN POSITION.
- 3. CONTROL WIRING PROVIDED AND TERMINATED BY GENERAC.



Prepared For:

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Engine



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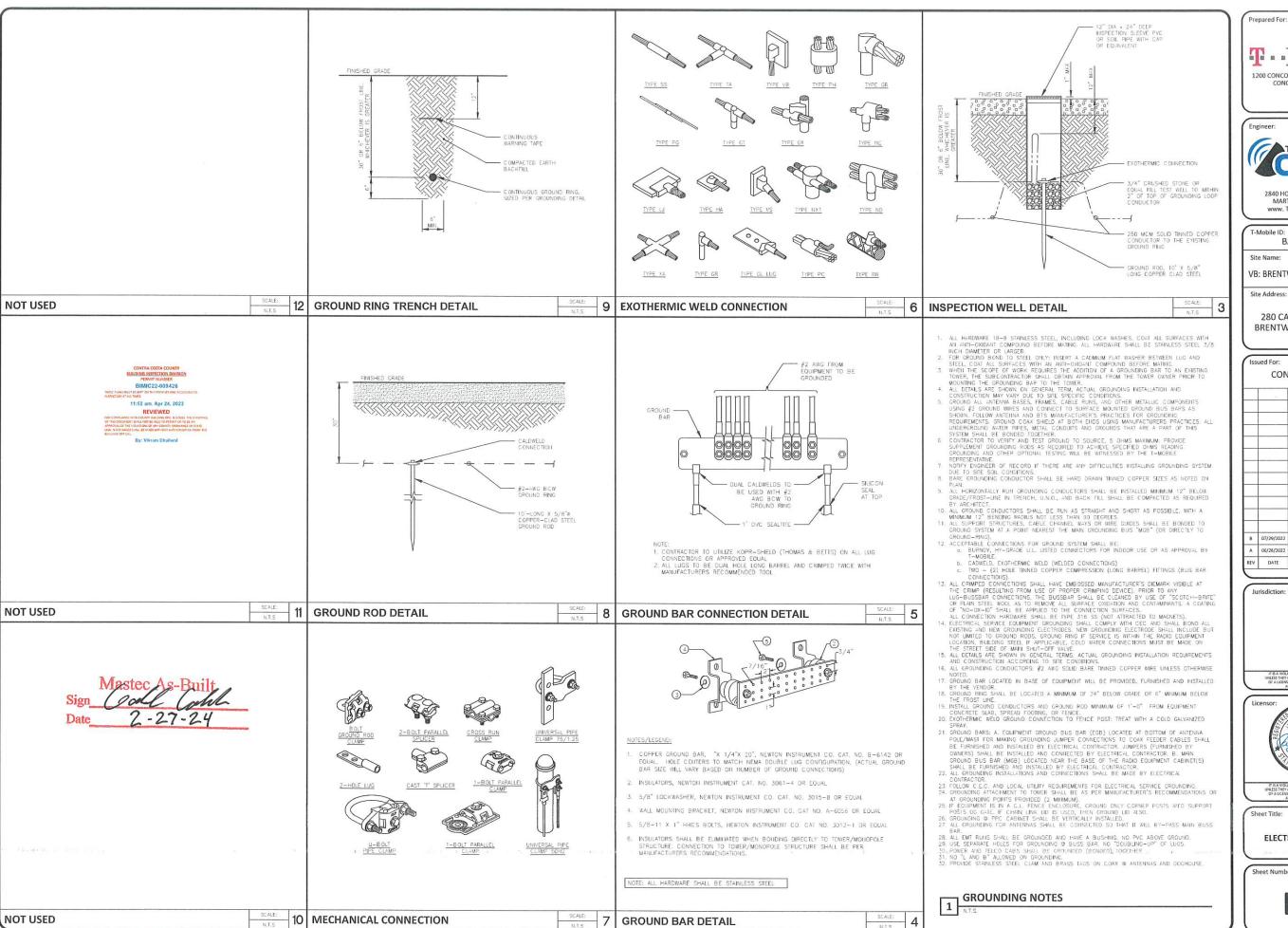


hoot Title:

PANEL SCHEDULE AND SINGLE LINE DIAGRAM

Sheet Number:

E-2



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ELECTRICAL DETAILS

Sheet Number

E-3