

GENERAL CONSTRUCTION NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR - GENERAL CONTRACTOR
SUBCONTRACTOR - CONTRACTOR (CONSTRUCTION)
OWNER - AT&T WIRELESS
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T WIRELESS PROJECT SPECIFICATIONS.
- GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS, GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL AT&T WIRELESS ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF 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.
- PLANS ARE NOT TO BE SCALED, THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT, MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO THE BEGINNING CONSTRUCTION.
- SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A, 0.7 2A-10-BC AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, D) TRENCHING AND EXCAVATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T WIRELESS TECHNICIANS.
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T WIRELESS GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- NO WHITE STROBIC LIGHTS ARE PERMITTED, LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
- ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- NO NOISE, SMOKE, DUST, OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR)
- NO ADDITIONAL PARKING TO BE PROPOSED, EXISTING ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
- NO LANDSCAPING IS PROPOSED AT THIS SITE, UNLESS NOTED OTHERWISE.
- ALL ASPECTS OF THE EXISTING STRUCTURE SHALL REMAIN UNDISTURBED, U.N.O. THE EXISTING STRUCTURE IS ASSUMED TO BE IN GOOD CONDITION, FREE FROM DAMAGE OR DETERIORATION. THE CONTRACTOR SHALL NOTIFY E.O.R. IMMEDIATELY SHOULD ANY DAMAGE, DETERIORATION, OR DISCREPANCIES BETWEEN THE AS-BUILT CONDITION OF THE EXISTING STRUCTURE AND THE ASSUMED CONDITION DESCRIBED IN THESE DRAWINGS BE FOUND.

STRUCTURAL CONCRETE / MASONRY NOTES:

- HOLES TO RECEIVE EXPANSION/WEDGE OR EPOXY ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN EXISTING CONCRETE MASONRY.
- USE AND INSTALLATION OF EXPANSION/WEDGE/EPOXY ANCHORS SHALL BE PER ICBO AND MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

ENVIRONMENTAL NOTES

- ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
- CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION AND RELEASE OF SITE.
- CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
- NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
- CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
- SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
- CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
- RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL CODE CHECKS BASED ON THE AISC, 14TH EDITION PER THE ASCE 7 STANDARD
- ALL STEEL PIPE TO BE PER ASTM A53 GR. B (95 KSI), U.N.O.
- ALL STEEL RECTANGULAR TUBES (HSS) TO BE PER ASTM A500 GR. B (46 KSI), U.N.O.
- ALL OTHER STRUCTURAL STEEL SHAPES & PLATES SHALL BE PER ASTM A36, U.N.O.
- ALL BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL BE PER ASTM F3125 GRADE A325, U.N.O.
- ALL BOLTED CONNECTIONS SHALL BE TIGHTENED PER THE "TURN-OF-NUT" METHOD AS DEFINED BY AISC.
- ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1
- ALL STEEL SURFACES SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM F2329 STANDARDS, THOROUGHLY COATED WITH A RUST INHIBITIVE RED OXIDE PRIMER, OR OTHERWISE PROTECTED AS NOTED ON THE STRUCTURAL DRAWINGS.

STATEMENT OF SPECIAL INSPECTIONS:

- STEEL FABRICATION SHALL BE PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED AS REQUIRED BY THE 2006 IBC TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
- NO FIELD WELDING SHALL BE PERMITTED UNLESS NOTED OTHERWISE.
- THE FOLLOWING SPECIAL INSPECTIONS, WHERE APPLICABLE, SHALL BE REQUIRED PER CHAPTER 17 OF THE 2006 IBC.
 - PERIODIC SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING PRODUCT ICC REPORT, IF UTILIZED.
 - PERIODIC SPECIAL INSPECTION OF POST-INSTALLED ANCHORS IN HARDENED CONCRETE, IF UTILIZED.
- ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED INSPECTOR FROM AN ESTABLISHED TESTING AGENCY, LICENSED AND APPROVED BY THE BUILDING DEPARTMENT.
- NO STRUCTURAL OBSERVATION IS REQUIRED.

ELECTRICAL NOTES:

- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY "CONSTRUCTION MANAGER" AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE "CONSTRUCTION MANAGER" HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER AND TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
 - NATIONAL FIRE CODES
 - UL - UNDERWRITERS LABORATORIES
 - NEC - NATIONAL ELECTRICAL CODE
 - NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 - OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 - SBC - STANDARD BUILDING CODE
- DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH "CONSTRUCTION MANAGER" ANY SIZES AND LOCATIONS WHEN NEEDED.
- EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES 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, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC.. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
- 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.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY AT&T WIRELESS.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- 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.
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE PROPOSED AND SHALL BE LISTED ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEC.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURERS CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE "CONSTRUCTION MANAGER" UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONDUIT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH "BRITTE ZINC" OR "GOLD GALV".
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, 800 VOLT, COLOR CODED, USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER, USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
- TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
- 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".
- ALL BOLTS SHALL BE STAINLESS STEEL.

GROUNDING NOTES:

- COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR, ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "T") WITH 1" HIGH LETTERS.
- ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- NUT AND WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.
- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
- WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

ISSUED FOR:

CLEARLAKE OAKS

16200 EAST HIGHWAY 20
CLEARLAKE OAKS,
CA 95423



AT&T SITE NO:	CCL05772
PROJECT NO:	11569670
DRAWN BY:	SD
CHECKED BY:	BM

REV	DATE	DESCRIPTION	BY
1	02/23/2022	90% 2D'S REV-REDESIGN	SP
0	09/30/2021	100% 2D'S FOR SUBMITTAL	BM
A	08/27/2021	90% 2D'S FOR REVIEW	SD

LICENSOR:

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.

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

ELECTRICAL NOTES:

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- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER AND TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
 - C - NATIONAL FIRE CODES
 - A. UL - UNDERWRITERS LABORATORIES
 - B. NEC - NATIONAL ELECTRICAL CODE
 - C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 - D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 - E. SBC - STANDARD BUILDING CODE
- DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
- EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES 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, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
- CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC... ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
- 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.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION, CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY VERIZON WIRELESS.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- 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.
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE PROPOSED AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEC.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURERS CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING, EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL, ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITZ ZINC' OR 'GOLD GALV'.
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION. 800 VOLT. COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- CONNECTORS FOR POWER CONDUCTORS; CONTRACTOR SHALL USE PRESSURE TYP INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER, USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
- TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
- 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".
- ALL BOLTS SHALL BE STAINLESS STEEL

GROUNDING NOTES:

- COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR, ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "T") WITH 1" HIGH LETTERS.
- ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING, ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
- FOR GROUND BOND TO STEEL ONLY; INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- NUT AND WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.
- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION, PROVIDE AS REQUIRED.
- WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

ABBREVIATIONS:

A.B.	ANCHOR BOLT	FTG.	FOOTING
ABV.	ABOVE	G.	GROWTH (CABINET)
ACCA	ANTENNA CABLE COVER ASSEMBLY	GL.	GALVANIZE(D)
ADDL	ADDITIONAL	GL.	GROUND FAULT CIRCUIT INTERRUPTER
A.F.F.	ABOVE FINISHED FLOOR	G.F.I.	GLUE LAMINATED BEAM
A.F.G.	ABOVE FINISHED GRADE	GLB. (GLU-LAM)	GLOBAL POSITIONING SYSTEM
ALUM.	ALUMINUM	GPS	GROUND
ALT.	ALTERNATE	GRND.	HEADER
ANT.	ANTENNA	HDR.	HANGER
APPRX.	APPROXIMATE(LY)	HGR.	HEIGHT
ARCH.	ARCHITECT(URAL)	HT.	ISOLATED COPPER GROUND BUS
AWG.	AMERICAN WIRE GAUGE	ICGB.	INCH(ES)
BLDG.	BUILDING	IN.(")	INTERIOR
BLK.	BLOCK	INT.	POUND(S)
BLKG.	BLOCKING	LB.(#)	LAG BOLTS
BM.	BEAM	L.B.	LINEAR FEET (FOOT)
B.N.	BOUNDARY NAILING	L.F.	LONG(TUDINAL)
BTOW.	BARE TINNED COPPER WIRE	L.	MASONRY
B.O.F.	BOTTOM OF FOOTING	MAS.	MAXIMUM
B/U	BACK-UP CABINET	MAX.	MACHINE BOLT
CAB.	CABINET	M.B.	MECHANICAL
CANT.	CANTILEVER(ED)	MECH.	MANUFACTURER
C.I.P.	CAST IN PLACE	MFR.	MINIMUM
CLG.	CEILING	MIN.	MISCELLANEOUS
CLR.	CLEAR	MISC.	META
COL.	COLUMN	MTL.	PROPOSED
CONC.	CONCRETE	PROPOSED	NO.(#)
CONN.	CONNECTION(OR)	N.T.S.	O.C.
CONST.	CONSTRUCTION	OPNG.	OPENING
CONT.	CONTINUOUS	PCS	PRECAST CONCRETE
d	FENNY (NAILS)	PLY.	PERSONAL COMMUNICATION SERVICES
DBL.	DOUBLE	PPC	PLYWOOD
DEPT.	DEPARTMENT	PRC	POWER PROTECTION CABINET
D.F.	DOUGLAS FIR	P.S.F.	PRIMARY RADIO CABINET
DIA.	DIAMETER	P.S.I.	POUNDS PER SQUARE FOOT
DIAG.	DIAGONAL	P.T.	POUNDS PER SQUARE INCH
DIM.	DIMENSION	PWR.	PRESSURE TREATED
DWVG.	DRAWING(S)	QTY.	POWER (CABINET)
DWL.	DOWEL(S)	RAD.(R)	QUANTITY
EA.	EACH	REF.	RADIUS
EL.	ELEVATION	REINF.	REFERENCE
ELEC.	ELECTRICAL	REINFD.	REINFORCEMENT(ING)
ELEV.	ELEVATOR	REQ'D.	REQUIRED
EMT.	ELECTRICAL METALLIC TUBING	RGS.	RIGID GALVANIZED STEEL
E.M.	EDGE NAIL	SCH.	SCHEDULE
ENG.	ENGINEER	SHT.	SHEET
EQ.	EQUAL	SIM.	SIMILAR
EXP.	EXPANSION	SPEC.	SPECIFICATION(S)
EXST.EXISTING	EXISTING	SQ.	SQUARE
EXT.	EXTERIOR	S.S.	STAINLESS STEEL
FAB.	FABRICATION(OR)	STD.	STANDARD
F.F.	FINISH FLOOR	STRUC.	STRUCTURAL
F.G.	FINISH GRADE	TEMP.	TEMPORARY
FIN.	FINISHED	THK.	THICK(NESS)
FLR.	FLOOR	T.N.	TOE NAIL
FDN.	FOUNDATION	T.O.A.	TOP OF ANTENNA
F.O.C.	FACE OF CONCRETE	T.O.C.	TOP OF CURB
F.O.M.	FACE OF MASONRY	T.O.F.	TOP OF FOUNDATION
F.O.S.	FACE OF STUD	T.O.P.	TOP OF PLATE (PARAPET)
F.O.W.	FACE OF WALL	T.O.S.	TOP OF STEEL
F.S.	FINISH SURFACE	T.O.W.	TOP OF WALL
FT.(')	FOOT (FEET)	TYP.	TYPICAL
		U.G.	UNDER GROUND
		U.L.	UNDERWRITERS LABORATORY
		U.N.O.	UNLESS NOTED OTHERWISE
		V.L.F.	VERIFY IN FIELD
		W	WIDE(WIDTH)
		WI	WITH
		WD.	WOOD
		W.P.	WEATHERPROOF
		WT.	WEIGHT
		C	CENTERLINE
		E	PLATE, PROPERTY LINE

SYMBOL LEGEND:

	PROPOSED ANTENNA
	EXISTING ANTENNA
	GROUND ROD
	GROUND BUS BAR
	MECHANICAL GRND. CONN.
	CADWELD
	GROUND ACCESS WELL
	ELECTRIC BOX
	TELEPHONE BOX
	LIGHT POLE
	FND. MONUMENT
	SPOT ELEVATION
	SET POINT
	REVISION
	GRID REFERENCE
	DETAIL REFERENCE
	ELEVATION REFERENCE
	SECTION REFERENCE
	GROUT OR PLASTER
	EXISTING BRICK
	EXISTING MASONRY
	CONCRETE
	EARTH
	GRAVEL
	PLYWOOD
	SAND
	WOOD CONT.
	WOOD BLOCKING
	STEEL
	CENTERLINE
	PROPERTY/LEASE LINE
	MATCH LINE
	WORK POINT
	GROUND CONDUCTOR
	TELEPHONE CONDUIT
	ELECTRICAL CONDUIT
	COAXIAL CABLE
	OVERHEAD SERVICE CONDUCTORS
	CHAIN LINK FENCING

ISSUED FOR:
CLEARLAKE OAKS
 16200 EAST HIGHWAY 20
 CLEARLAKE OAKS,
 CA 95423



AT&T SITE NO:	CCL05772
PROJECT NO:	11569670
DRAWN BY:	SD
CHECKED BY:	BM

REV	DATE	DESCRIPTION	BY
1	02/23/2022	90% ZD'S REV-REDESIGN	SP
0	09/30/2021	100% ZD'S FOR SUBMITTAL	BM
A	08/27/2021	90% ZDS FOR REVIEW	SD

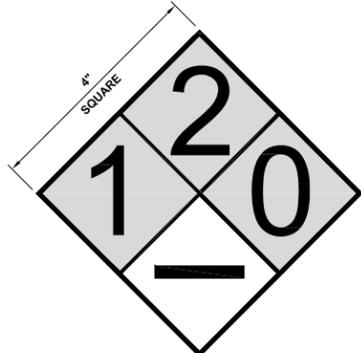
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SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2



REQUIRED BATTERY NFPA SIGNAGE



NFPA SIGNAGE

DIESEL
TOTAL GALLONS 190

SITE IDENTIFICATION SIGNAGE

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

4



PROP 65

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

5

NO TRESPASSING SIGNAGE



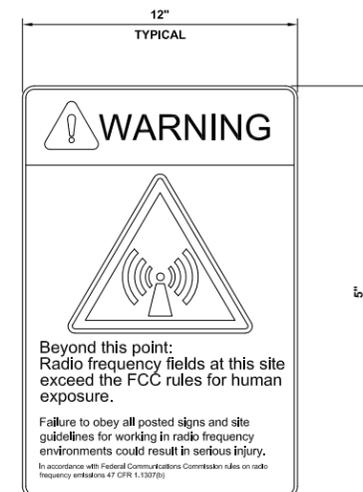
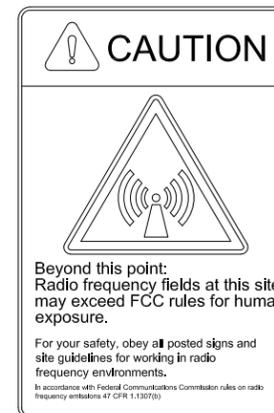
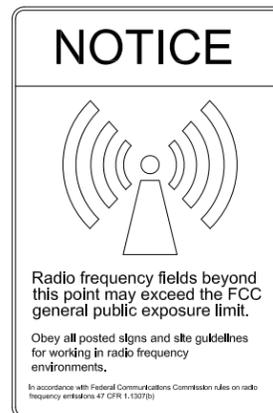
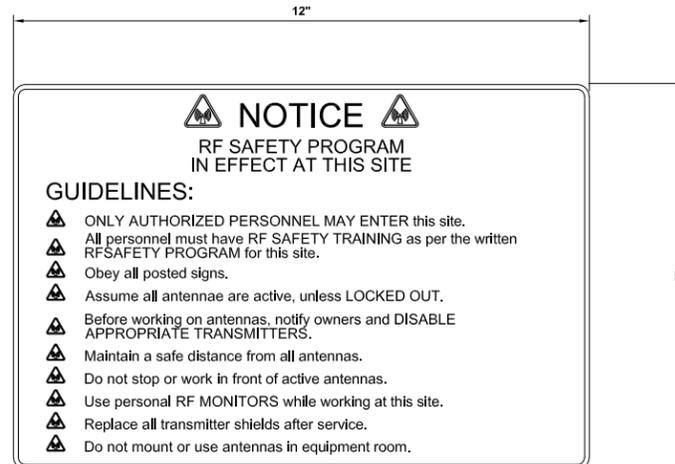
24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

RF SIGNAGE

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

1



RF SIGNAGE

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

2

ISSUED FOR:
CLEARLAKE OAKS
16200 EAST HIGHWAY 20
CLEARLAKE OAKS,
CA 95423



AT&T SITE NO:	CCL05772
PROJECT NO:	11569670
DRAWN BY:	SD
CHECKED BY:	BM

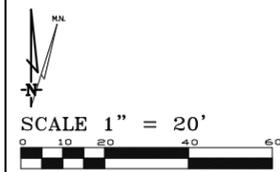
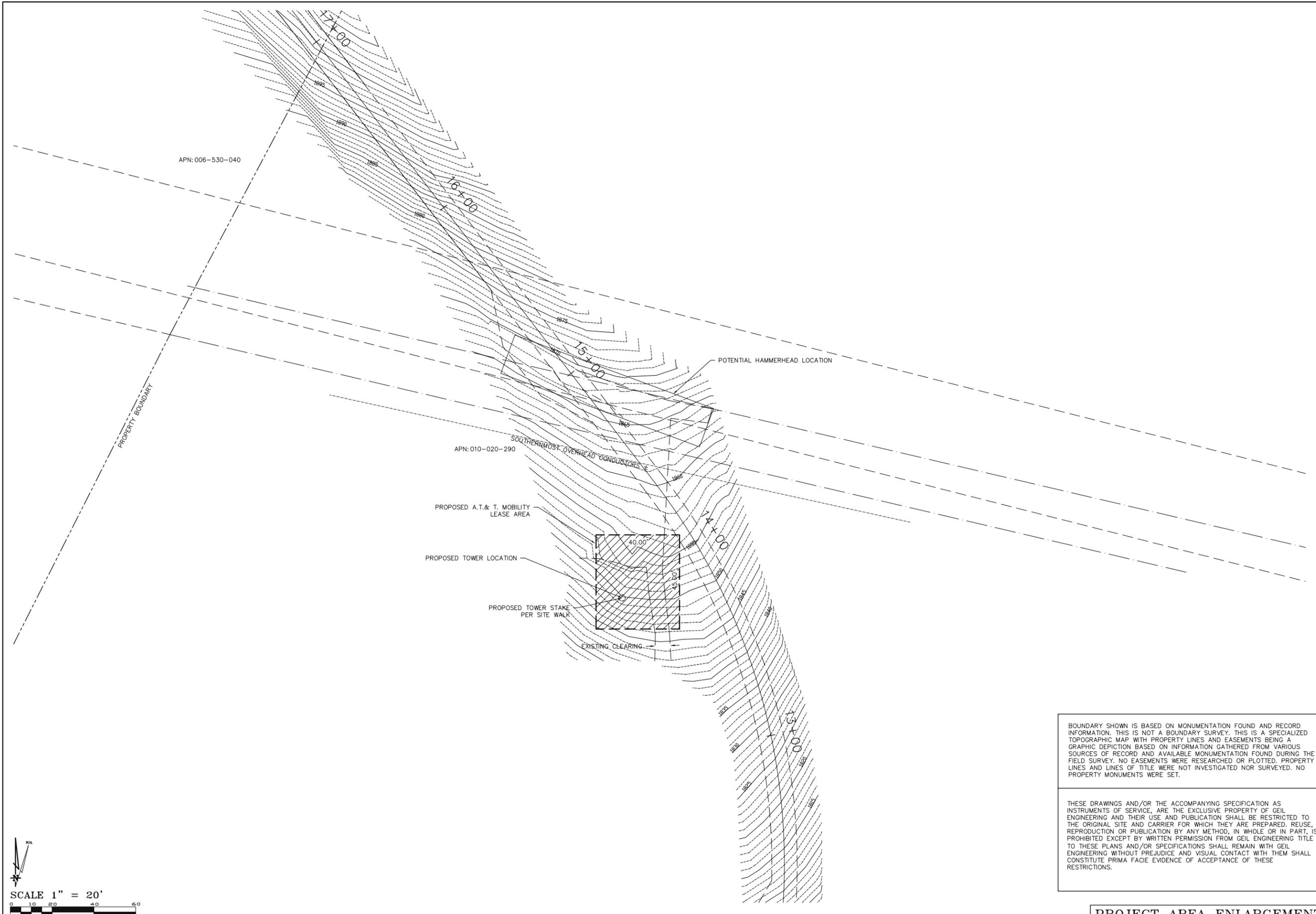
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1	02/23/2022	90% ZD'S REV-REDESIGN	SP
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SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-3



BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

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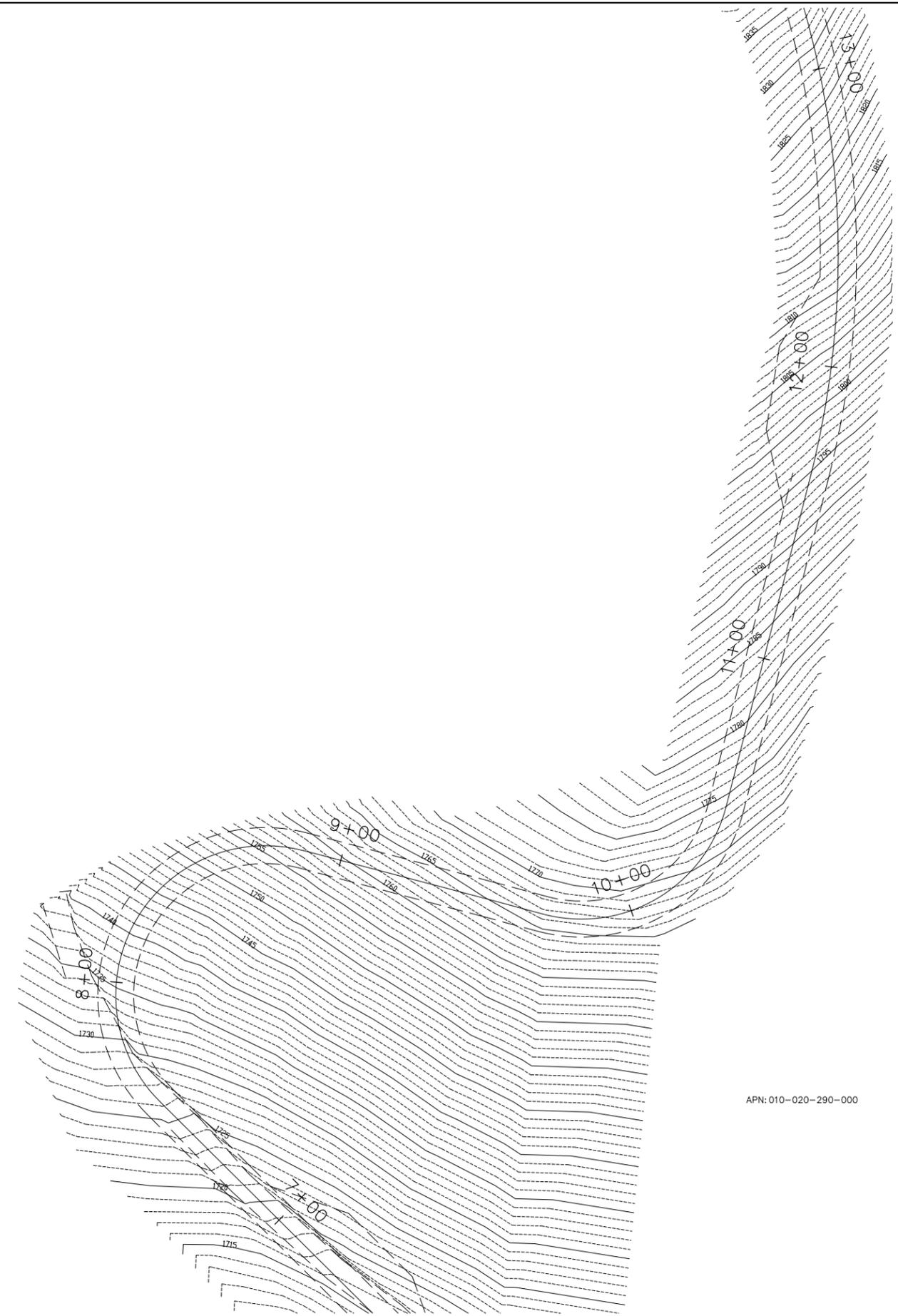
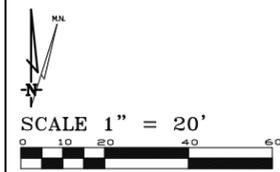
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PLOT PLAN AND
SITE TOPOGRAPHY

Sheet
C-2



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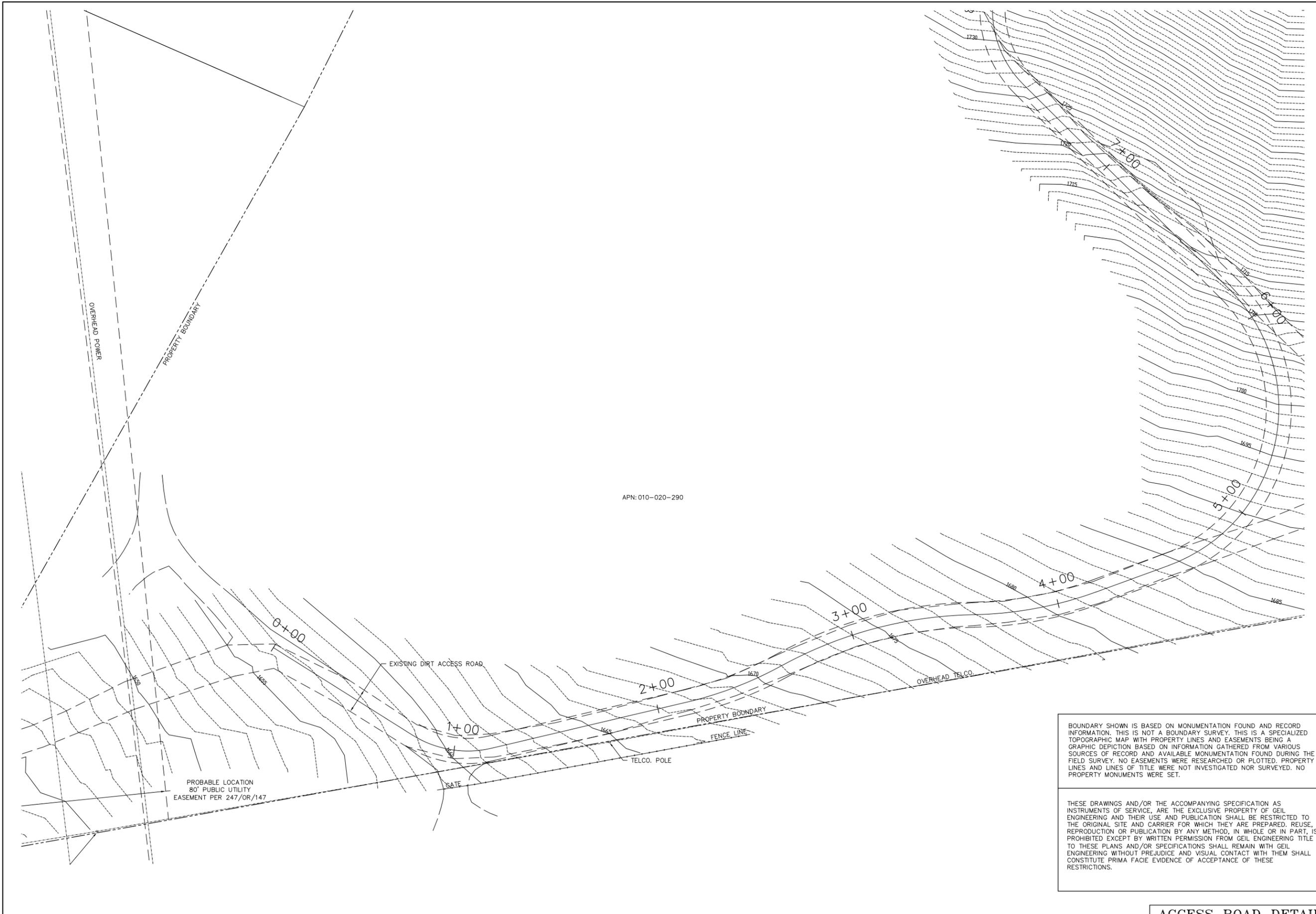
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C-3

ACCESS ROAD DETAIL



APN: 010-020-290

PROBABLE LOCATION
80' PUBLIC UTILITY
EASEMENT PER 247/OR/147

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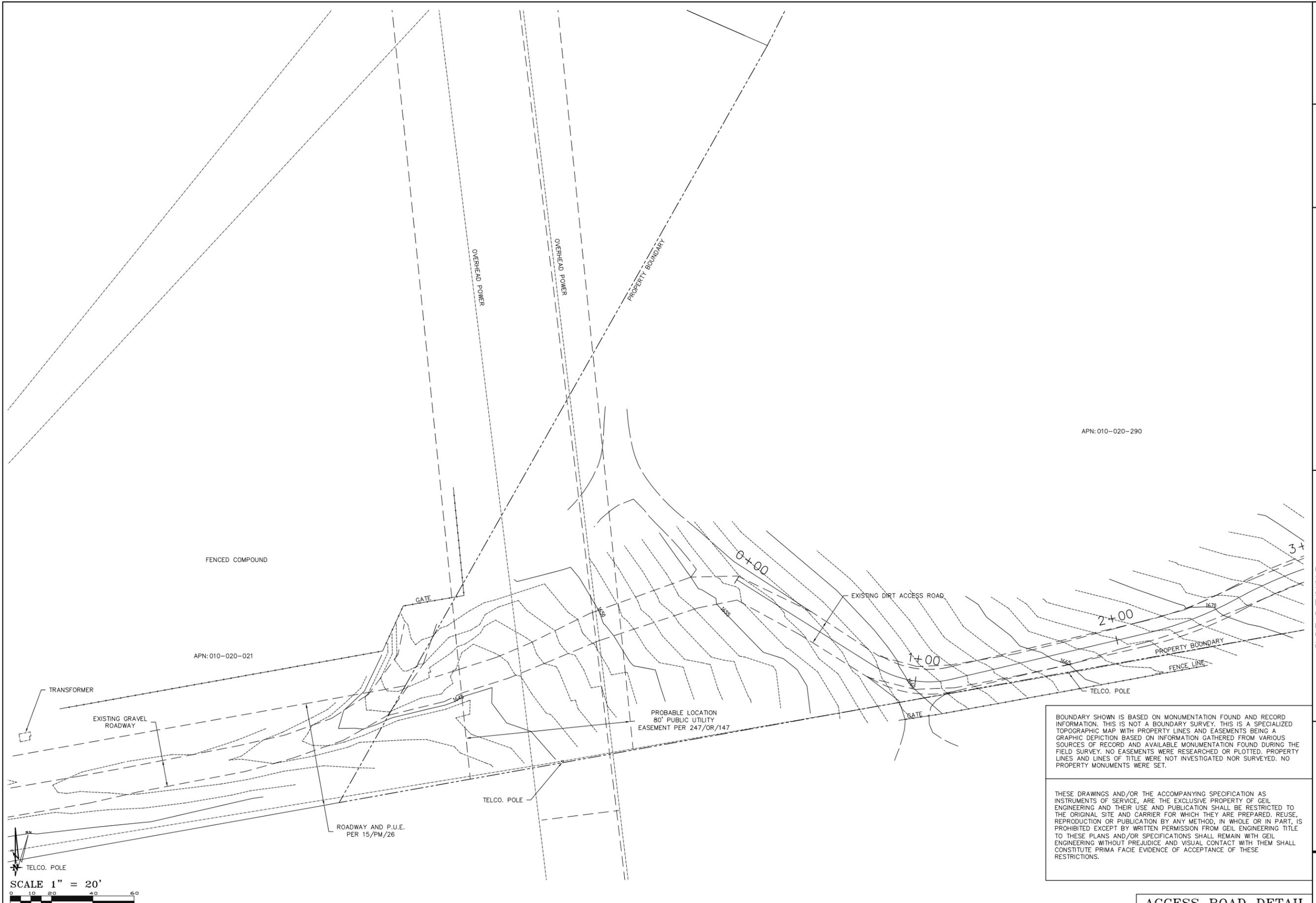


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 PLOT PLAN AND
 SITE TOPOGRAPHY

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C-4

ACCESS ROAD DETAIL



APN: 010-020-290

APN: 010-020-021

SCALE 1" = 20'
 0 10 20 40 60

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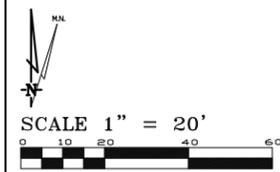
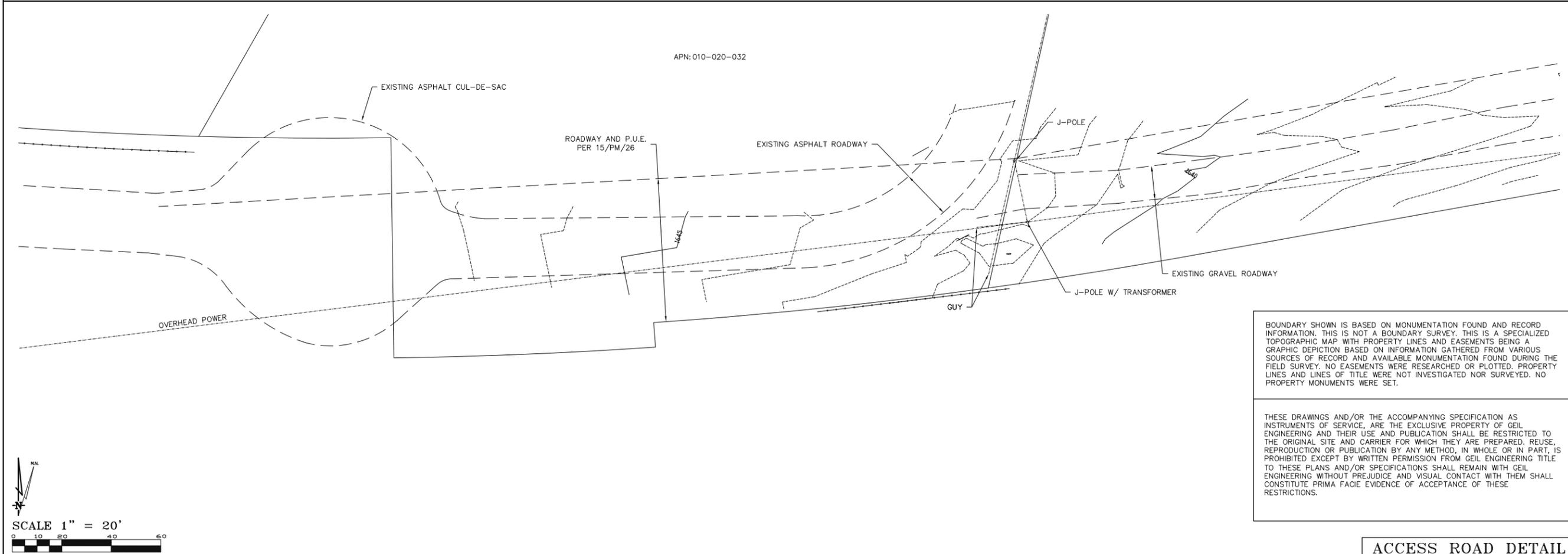
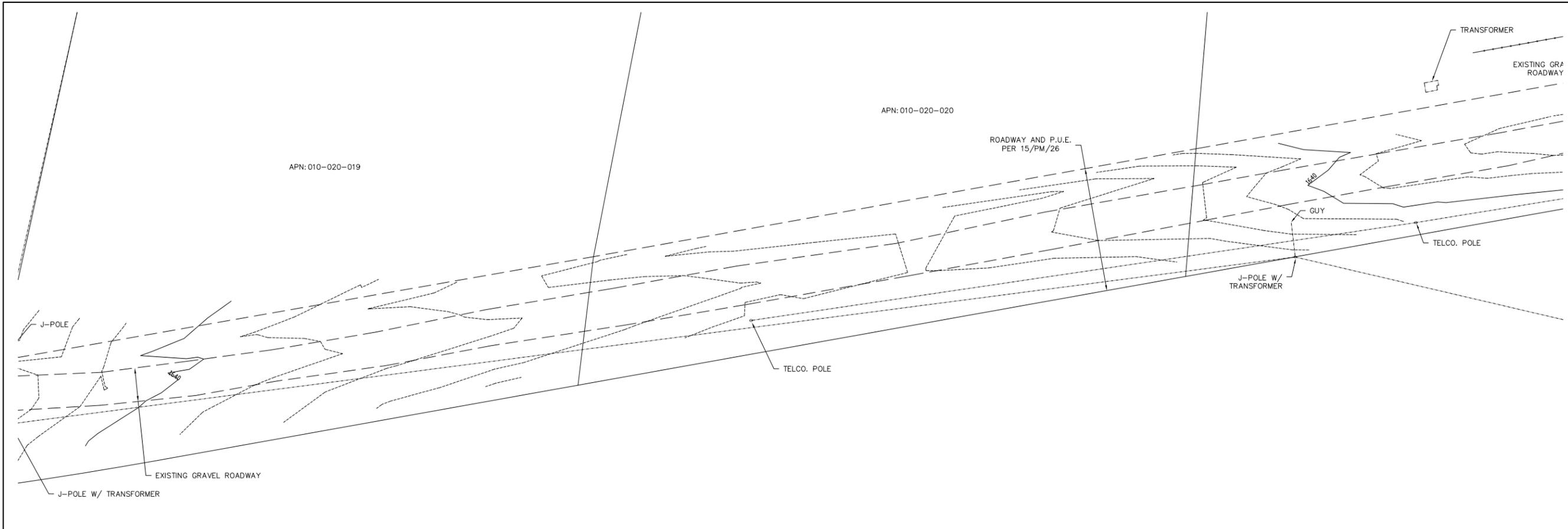
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 fax: (530) 883-1588



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CLEARLAKE OAKS
 16200 E. HIGHWAY 20
 CLEARLAKE OAKS, CA 95423
 PLOT PLAN AND
 SITE TOPOGRAPHY

Sheet
C-5

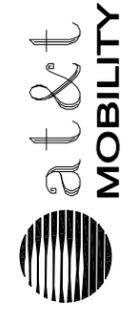


BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor
GEIL ENGINEERING
 ENGINEERING • SURVEYING • PLANNING
 16200 HIGH STREET
 AUBURN, CALIFORNIA 95609
 phone: (530) 886-0466
 fax: (530) 886-1508



CCL05772
CLEARLAKE OAKS
 16200 E. HIGHWAY 20
 CLEARLAKE OAKS, CA 95423
 PLOT PLAN AND
 SITE TOPOGRAPHY

Sheet

C-6

ACCESS ROAD DETAIL

Geil Engineering
 Engineering * Surveying * Planning
 1226 High Street
 Auburn, California 95603-5015
 Phone: (530) 885-0426 * Fax: (530) 823-1309

A.T.& T. Mobility

Project No./Name: CCL05772 / CLEARLAKE OAKS

Project Site Location: 16200 E. Highway 20
 Clearlake Oaks, CA 95423
 Lake County

Date of Observation: 02-01-22

Equipment/Procedure Used to Obtain Coordinates: Trimble Pathfinder
 Pro XL post processed with Pathfinder Office software.

Type of Antenna Mount: Proposed Lattice Tower

Coordinates (Tower)

Latitude: N 39° 00' 40.19" (NAD83) N 39° 00' 40.57" (NAD27)
 Longitude: W 122° 36' 34.61" (NAD83) W 122° 36' 30.67" (NAD27)

ELEVATION of Ground at Structure (NAVD88) 1850' AMSL

CERTIFICATION: I, the undersigned, do hereby certify elevation listed above is based on a field survey done under my supervision and that the accuracy of those elevations meet or exceed 1-A Standards as defined in the FAA ASAC Information Sheet 91:003, and that they are true and accurate to the best of my knowledge and belief.

Kenneth D. Geil California RCE 14803



[Handwritten Signature]

ISSUED FOR:

CLEARLAKE OAKS
 16200 EAST HIGHWAY 20
 CLEARLAKE OAKS,
 CA 95423



5001 EXECUTIVE PARKWAY
 SAN RAMON, CALIFORNIA 94583



1387 CALLE AVANZADO
 SAN CLEMENTE CA 92673 (949) 391-8824

AT&T SITE NO: CCL05772

PROJECT NO: 11569670

DRAWN BY: SD

CHECKED BY: BM

REV	DATE	DESCRIPTION	BY
1	02/23/2022	90% ZD'S REV-REDESIGN	SP
0	09/30/2021	100% ZD'S FOR SUBMITTAL	BM
A	08/27/2021	90% ZDS FOR REVIEW	SD

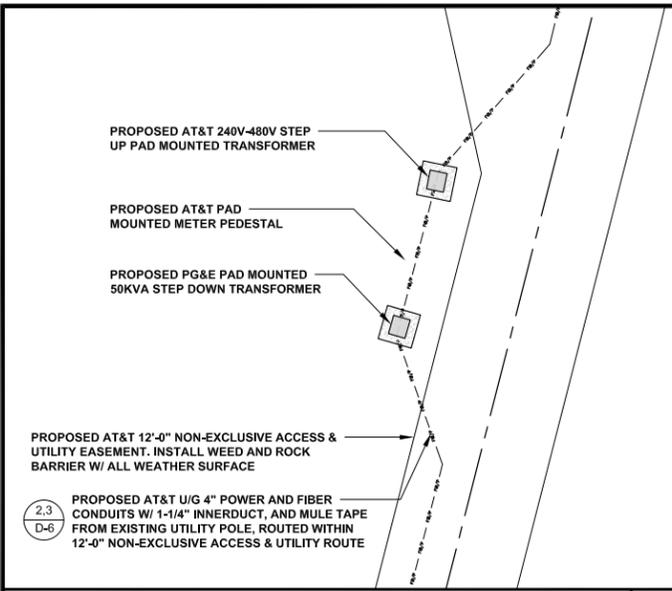
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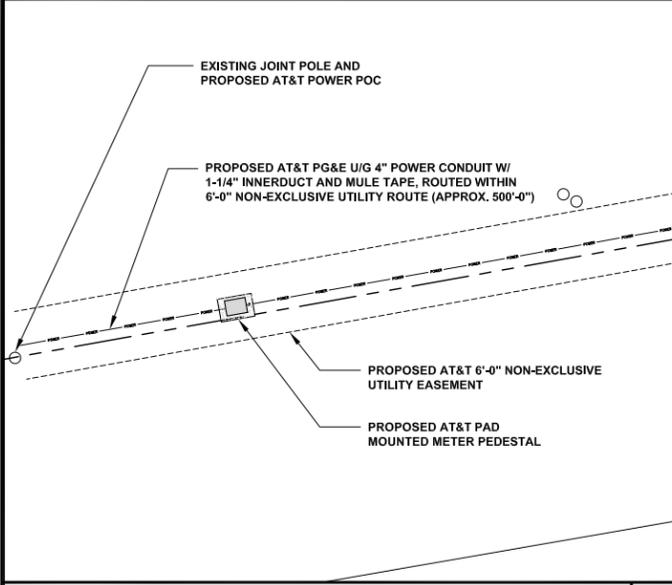
SHEET TITLE
 SITE SURVEY
 INFORMATION

SHEET NUMBER

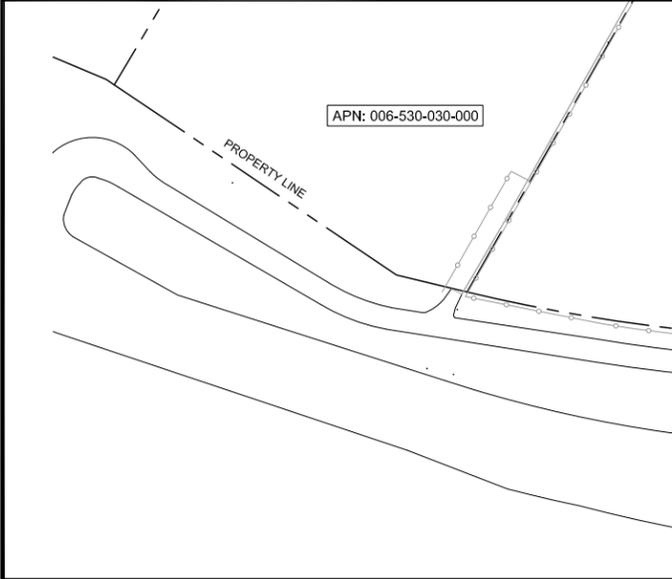
C-7



TRANSFORMER LOCATION 24"x36" SCALE: NTS
11"x17" SCALE: NTS **2**



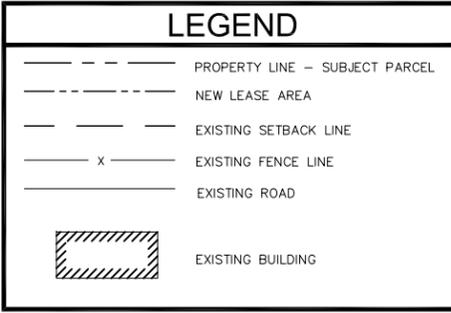
METER LOCATION 24"x36" SCALE: NTS
11"x17" SCALE: NTS **3**



SITE PLAN 24"x36" SCALE: 1" = 100'-0"
11"x17" SCALE: 1" = 200'-0" **1**

- NOTES:**
- THE WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.
 - NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE PROPOSED INSTALLATION.
 - THE BELOW GRADING INFORMATION IS AN ESTIMATE:
 - TRENCH IS TO BE 3'-0" DEEP AND 16" WIDE - ALL SPOILS TO BE PLACED BACK INTO TRENCH & COMPACTED TO 90%
 - CONCRETE FOOTING IS TO BE 18 YARDS WITH A 5'-0" DIA.
 - CONCRETE PAD IS TO BE 9 YARDS TOTAL DISPLACEMENT - HALF ABOVE GRADE; DIRT TO BE IMPACTED 5 YARDS UNDER
 - ALL SPOILS TO BE REMOVED FROM PROJECT SITE

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



ISSUED FOR:
CLEARLAKE OAKS
16200 EAST HIGHWAY 20
CLEARLAKE OAKS,
CA 95423



AT&T SITE NO:	CCL05772
PROJECT NO:	11569670
DRAWN BY:	SD
CHECKED BY:	BM

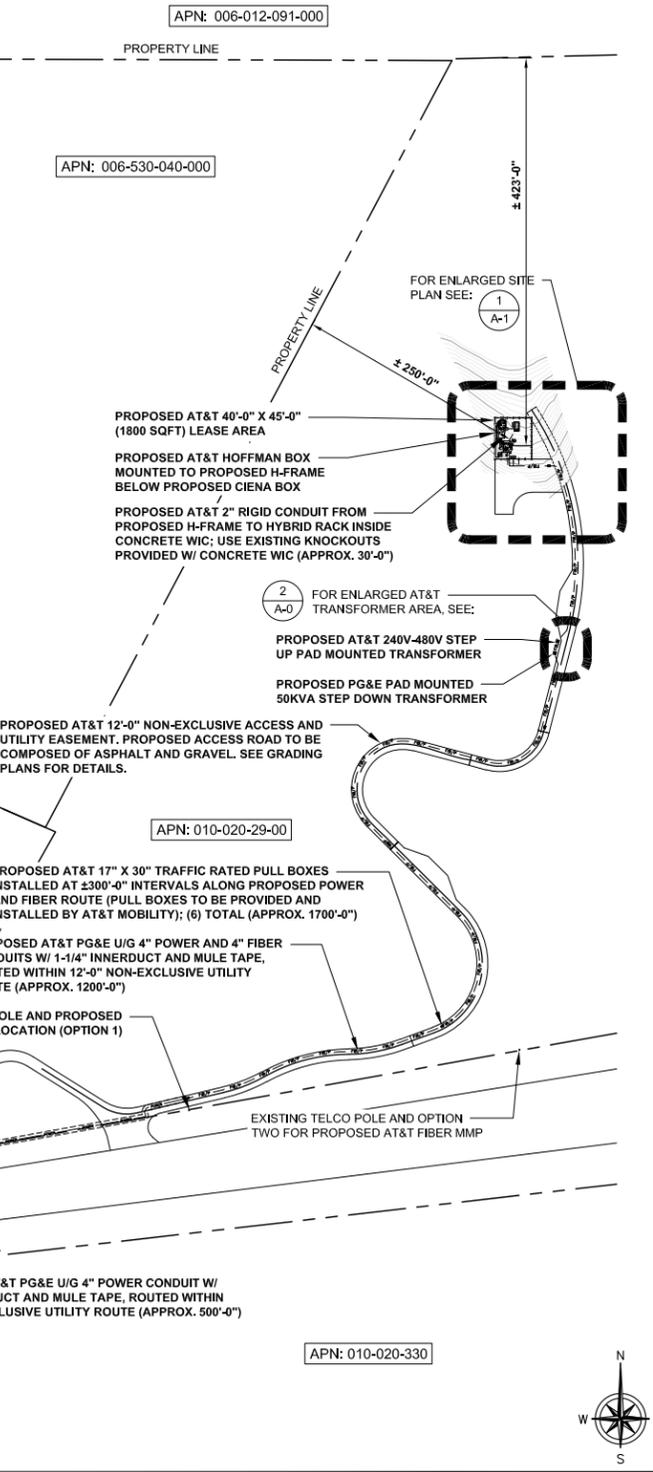
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A	08/27/2021	90% ZDS FOR REVIEW	SD

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SHEET TITLE
SITE PLAN

SHEET NUMBER
A-0



24"x36" SCALE: 1" = 100'-0"
11"x17" SCALE: 1" = 200'-0" **1**

NOTES:

1. THE WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.
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LEGEND

- PROPERTY LINE - SUBJECT PARCEL
- - - NEW LEASE AREA
- - - EXISTING SETBACK LINE
- x - EXISTING FENCE LINE
- - - EXISTING ROAD
- ▨ EXISTING BUILDING

1.2
D-8 PROPOSED AT&T 16'-6" LONG ICE BRIDGE

PROPOSED AT&T 150'-0" TALL LATTICE TOWER WITH PROPOSED ANTENNAS MOUNTED WITHIN

PROPOSED AT&T 120/240V STEP DOWN TRANSFORMER ON PROPOSED 4'-2" x 4'-4" CONCRETE PAD

FOR ENLARGED EQUIPMENT AND ANTENNA PLAN SEE: 1 A-2 1 A-4

PROPOSED AT&T 40'-0" X 45'-0" (1800 SQFT) LEASE AREA

PROPOSED AT&T SABRE CELLXION SATN70 PRE-CAST CONCRETE WALK-IN CABINET (WIC) MOUNTED ON PROPOSED CONCRETE PAD WITH (2) 19" RACKS, (1) LOAD CENTER, AND (1) DC POWER PLANT

3.4 4 1.4 5.6
D-1 D-5 D-6 D-6

PROPOSED 8'-0" TALL CHAIN LINK FENCE WITH 3-STRAND ANTI CLIMB BARRIER AND SLOTTED/PRIVACY SLATS

5.6
D-5

PROPOSED AT&T GENERAC 30KW GENERATOR LEVEL 2 ACOUSTIC CONCRETE ENCLOSURE WITH 190 GAL. FUEL TANK (JL2085) AND MOUNTED ON PROPOSED CONCRETE PAD

2.3
D-3 D-4

PROPOSED AT&T U/G 4" POWER AND FIBER CONDUITS W/ 1-1/4" INNERDUCT, AND MULE TAPE, ROUTED WITHIN 6'-0" NON-EXCLUSIVE UTILITY ROUTE

2.3
D-6

PROPOSED AT&T 12'-0" NON-EXCLUSIVE ACCESS EASEMENT. PROPOSED ACCESS ROAD TO BE COMPOSED OF ASPHALT AND GRAVEL. SEE GRADING PLANS FOR DETAILS.

PROPOSED AT&T NON-EXCLUSIVE TECHNICIAN PARKING & FIRE EMERGENCY TURNAROUND AREA. PENDING GRADING PLAN FOR DETAILS.

APN: 010-020-290

NOTE:

1. EXISTING ROADWAYS ON PRIVATE PROPERTY SHALL MEET, AND OR BE IMPROVED TO MEET "ROAD" STANDARDS PER CAL FIRE GUIDELINES.
2. ALL WEATHER ROADWAY SURFACES SHALL BE RATED/ENGINEERED FOR 75,000LB VEHICLES AS THE MINIMUM (INCLUDING BRIDGES).
3. ALL WEATHER ROADWAY SURFACES SHOULD NOT EVER HAVE MUD, STANDING OR FLOWING WATER THAT VEHICLES HAVE TO TRAVEL.
4. MAXIMUM ROADWAY SLOPE IS 16% PER CAL FIRE GUIDELINES.
5. THIS PROPERTY WILL MEET THE CRITERIA TO BE, OR WILL BE A CERS/CUPA REPORTING FACILITY/ENTITY TO LAKE COUNTY ENVIRONMENTAL HEALTH, IT SHALL ALSO COMPLY SPECIFICALLY WITH PRC4291.3 REQUIRING 300 FEET OF DEFENSIBLE SPACE AND FEULS REDUCTION AROUND STRUCTURES. IN SUMMARY ANY STRUCTURE OR LOCATION THAT STORES HAZARDOUS, FLAMMABLE OR DANGEROUS ITEMS SHALL ESTABLISH AND MAINTAIN 300 FEET OF DEFENSIBLE SPACE / FUELS REDUCTION AROUND ITS RADIUS.

ISSUED FOR:

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CLEARLAKE OAKS,
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5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

AT&T SITE NO: CCL05772

PROJECT NO: 11569670

DRAWN BY: SD

CHECKED BY: BM

REV	DATE	DESCRIPTION	BY
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A	08/27/2021	90% ZDS FOR REVIEW	SD

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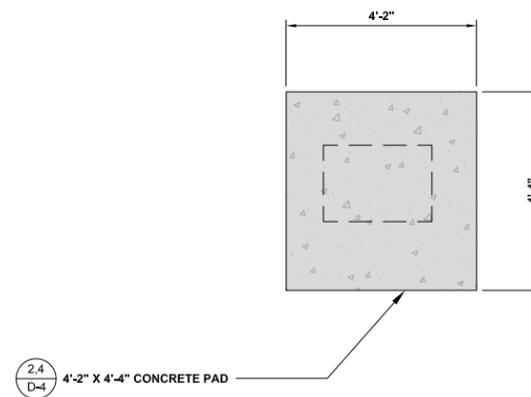
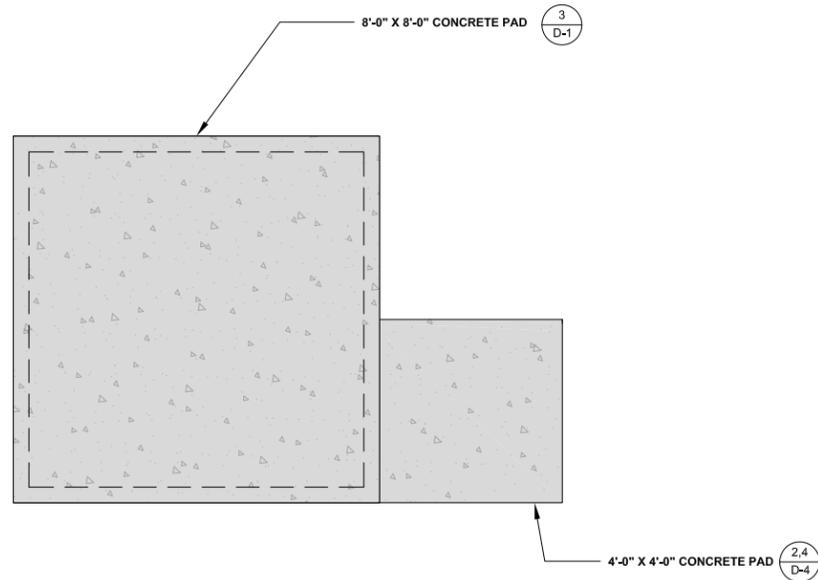
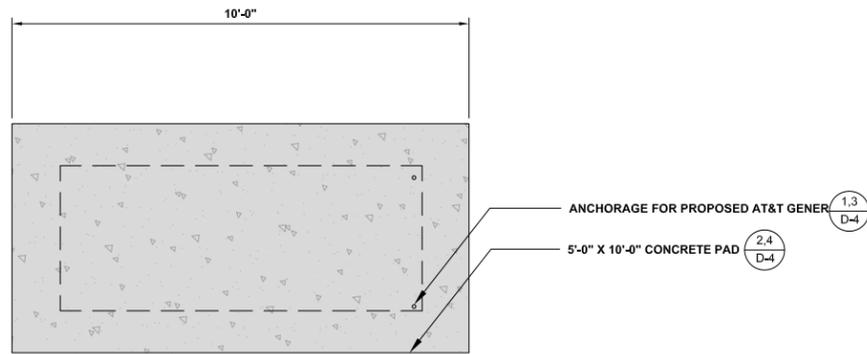
SHEET TITLE

ENLARGED SITE PLAN

SHEET NUMBER

A-1





NOTE:

1. ANTENNAS & GROUND EQUIPMENT NOT SHOWN FOR CLARITY
2. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
 - THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH SOILS REPORT
 - THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED
 - THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT
4. PENDING FINAL STRUCTURAL DESIGN, ANALYSIS AND APPROVAL FOR LATTICE TOWER.

ISSUED FOR:
CLEARLAKE OAKS
 16200 EAST HIGHWAY 20
 CLEARLAKE OAKS,
 CA 95423



AT&T SITE NO:	CCL05772
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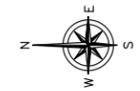
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SHEET TITLE
**EQUIPMENT PAD,
 TRANSFORMER, AND
 GENERATOR FOUNDATION**

SHEET NUMBER
A-3

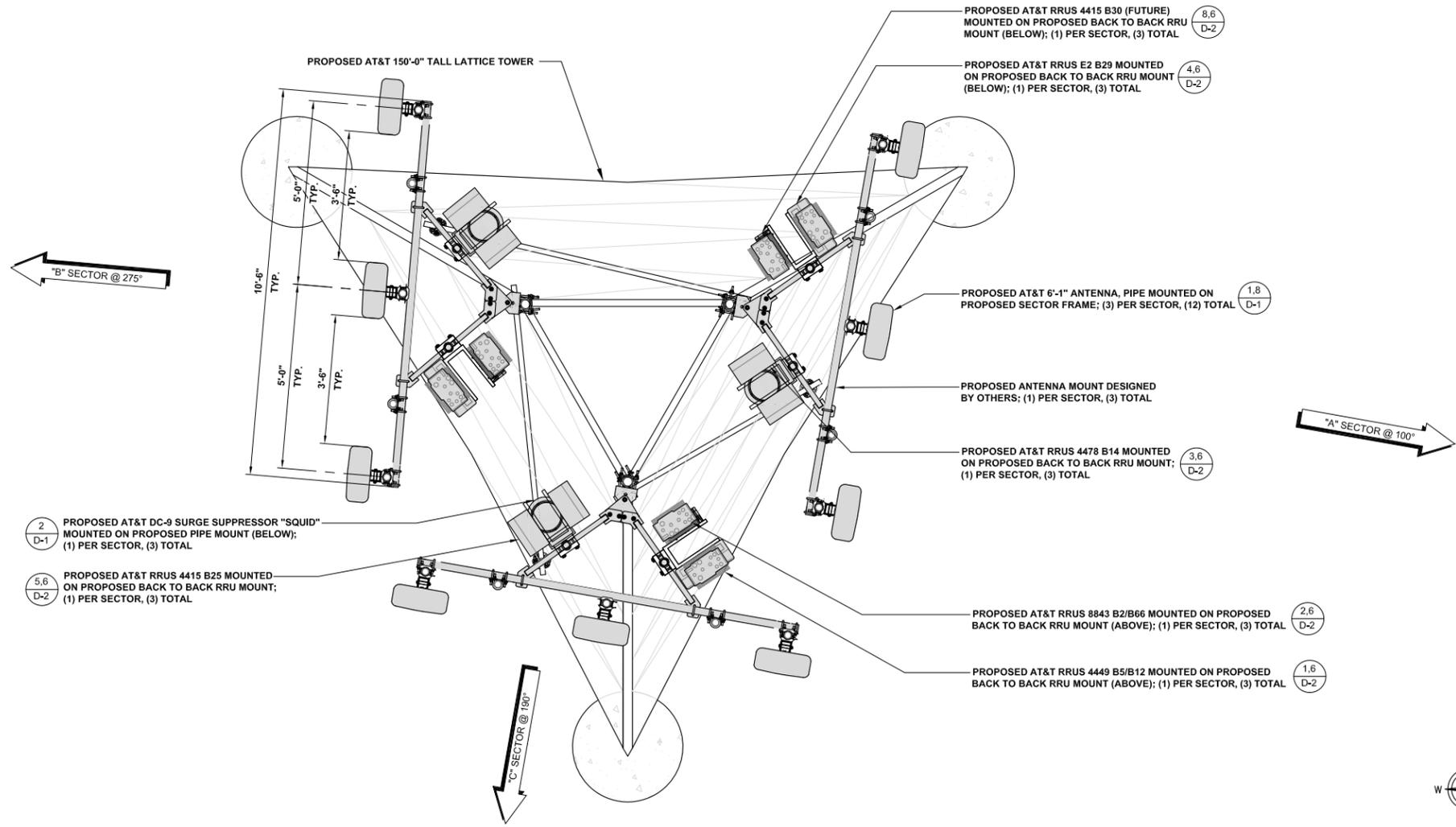


PROPOSED OPTIMAL ANTENNA AND TRANSMISSION CABLES REQUIREMENT (VERIFY WITH CURRENT RFDS)							PROPOSED REMOTE RADIO UNITS, TOWER MOUNTED AMPLIFIERS AND ANTENNA FILTERS (VERIFY WITH CURRENT RFDS)					
ANTENNA	PROPOSED TECHNOLOGY	ANTENNA MODEL	ANTENNA AZIMUTH	RAD CENTER	TRANSMISSION LINE		RRUS MODEL	RRUS COUNT	TMA, ANTENNA FILTER, & SURGE SUPPRESSOR	TMA/FILTER/SURGE COUNT	#DC FEEDS	
					LENGTH	TYPE						
ALPHA SECTOR	A1	LTE 700/1900/AWS	COMMSCOPE NNH4-45B-R6 (6'-1")	100°	147'-0"	±200'	FIBER	RRUS 4449 B5/B12 & RRUS 8843 B2/B66A	2	DC9-48-60-24-8C-EV	1	3
	A2	LTE 700/1900	COMMSCOPE NNH4-45B-R6 (6'-1")	100°	147'-0"	±200'	FIBER	RRUS 4478 B14 & RRUS 4415 B25	2	-	-	-
	A3	LTE	COMMSCOPE NNH4-45B-R6 (6'-1")	100°	147'-0"	±200'	FIBER	RRUS E2 B29 & RRUS 4415 B30 (FUTURE)	2	-	-	-
BETA SECTOR	B1	LTE 700/1900/AWS	COMMSCOPE NNH4-45B-R6 (6'-1")	275°	147'-0"	±200'	FIBER	RRUS 4449 B5/B12 & RRUS 8843 B2/B66A	2	DC9-48-60-24-8C-EV	1	3
	B2	LTE 700/1900	COMMSCOPE NNH4-45B-R6 (6'-1")	275°	147'-0"	±200'	FIBER	RRUS 4478 B14 & RRUS 4415 B25	2	-	-	-
	B3	LTE	COMMSCOPE NNH4-45B-R6 (6'-1")	275°	147'-0"	±200'	FIBER	RRUS E2 B29 & RRUS 4415 B30 (FUTURE)	2	-	-	-
GAMMA SECTOR	C1	LTE 700/1900/AWS	COMMSCOPE NNH4-45B-R6 (6'-1")	190°	147'-0"	±200'	FIBER	RRUS 4449 B5/B12 & RRUS 8843 B2/B66A	2	DC9-48-60-24-8C-EV	1	3
	C2	LTE 700/1900	COMMSCOPE NNH4-45B-R6 (6'-1")	190°	147'-0"	±200'	FIBER	RRUS 4478 B14 & RRUS 4415 B25	2	-	-	-
	C3	LTE	COMMSCOPE NNH4-45B-R6 (6'-1")	190°	147'-0"	±200'	FIBER	RRUS E2 B29 & RRUS 4415 B30 (FUTURE)	2	-	-	-
								18		3	9	
								TOTAL		TOTAL TOTAL		

ANTENNA & TOWER MOUNTED EQUIPMENT SCHEDULE

2

- NOTES TO CONTRACTOR:**
- M SQUARED WIRELESS ACCEPTS NO LIABILITY FOR THE STRUCTURAL CAPACITY OF THE TOWER STRUCTURE, MOUNTS, ANTENNAS, CABLES OR ANY OTHER APPURTENANCE ON THE TOWER. THE CONTRACTOR AND SUBCONTRACTOR SHALL COORDINATE WITH AND COMPLY WITH THE PROVISIONS OF THE STRUCTURAL ANALYSIS PREPARED FOR THIS SITE AND PROJECT PRIOR TO THE INSTALLATION OF ANTENNAS AND CABLE ON THE TOWER. IMMEDIATELY REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE STRUCTURAL ANALYSIS TO AT&T.
 - CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION
 - CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK
 - CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM



PROPOSED ANTENNA PLAN

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"

1

ISSUED FOR:
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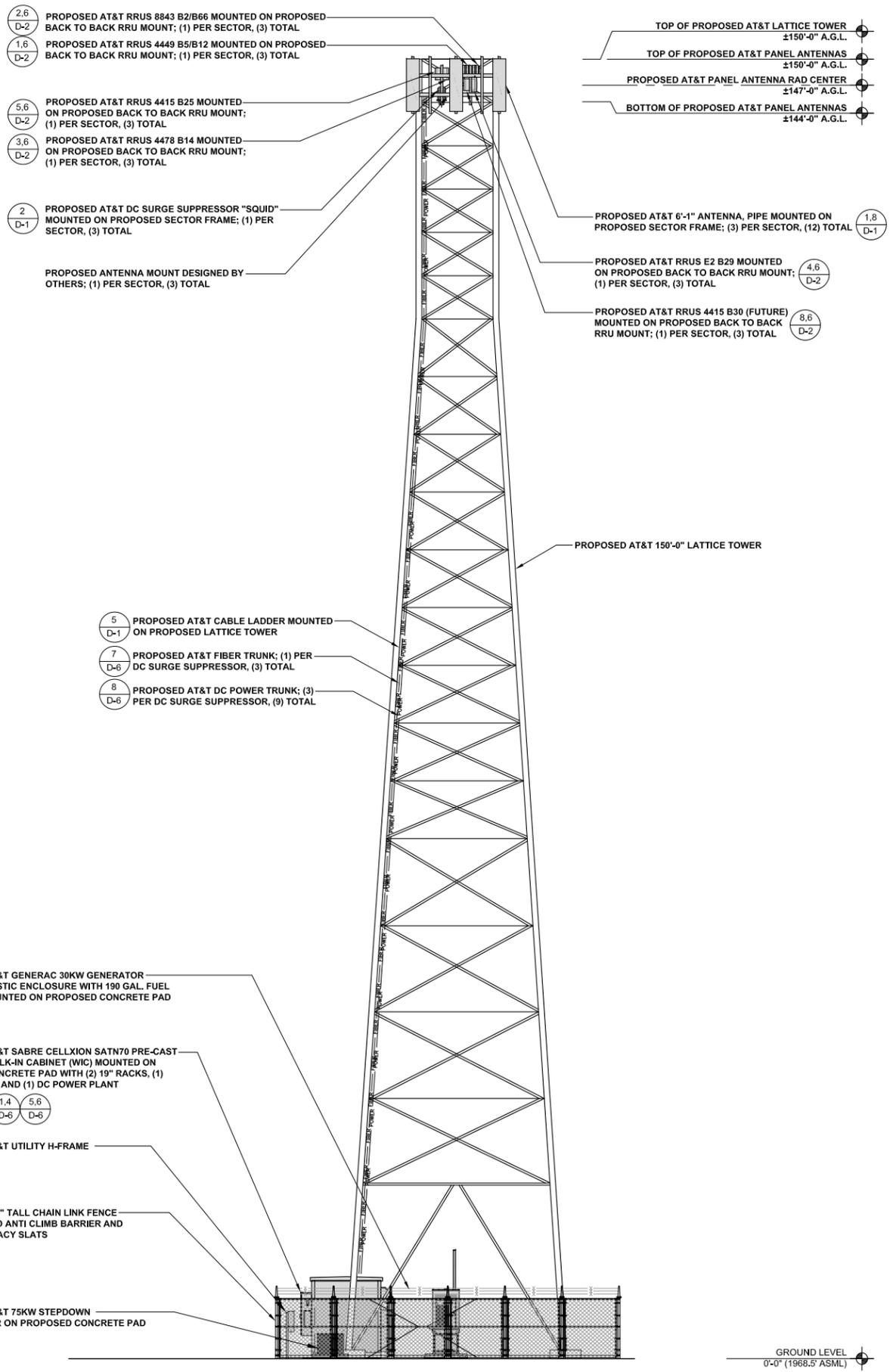
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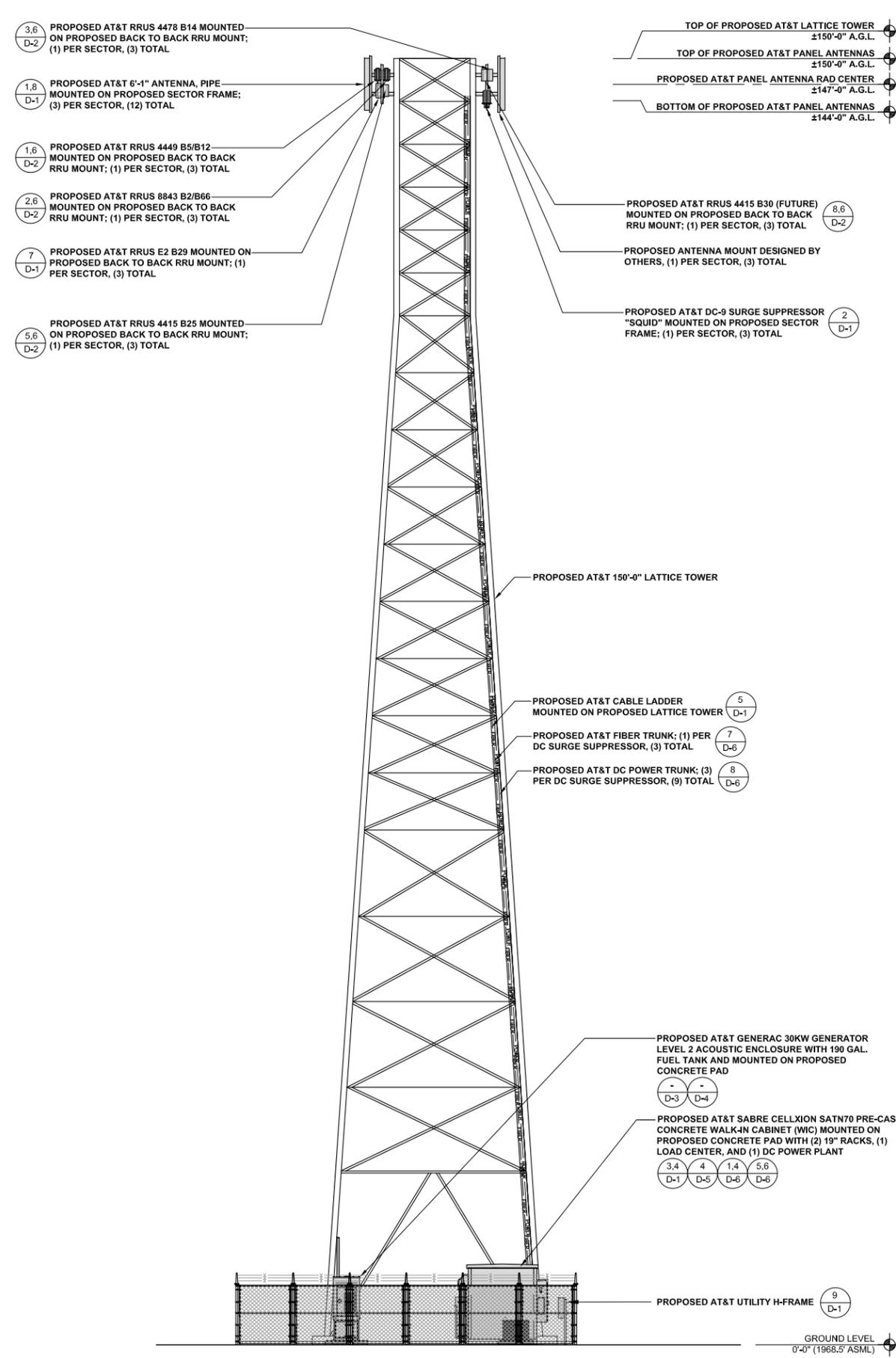
SHEET TITLE
ANTENNA PLAN & SCHEDULE

SHEET NUMBER
A-4



PROPOSED SOUTH ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"
8' 6" 4" 2" 0" 8'



PROPOSED NORTH ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"
8' 6" 4" 2" 0" 8'

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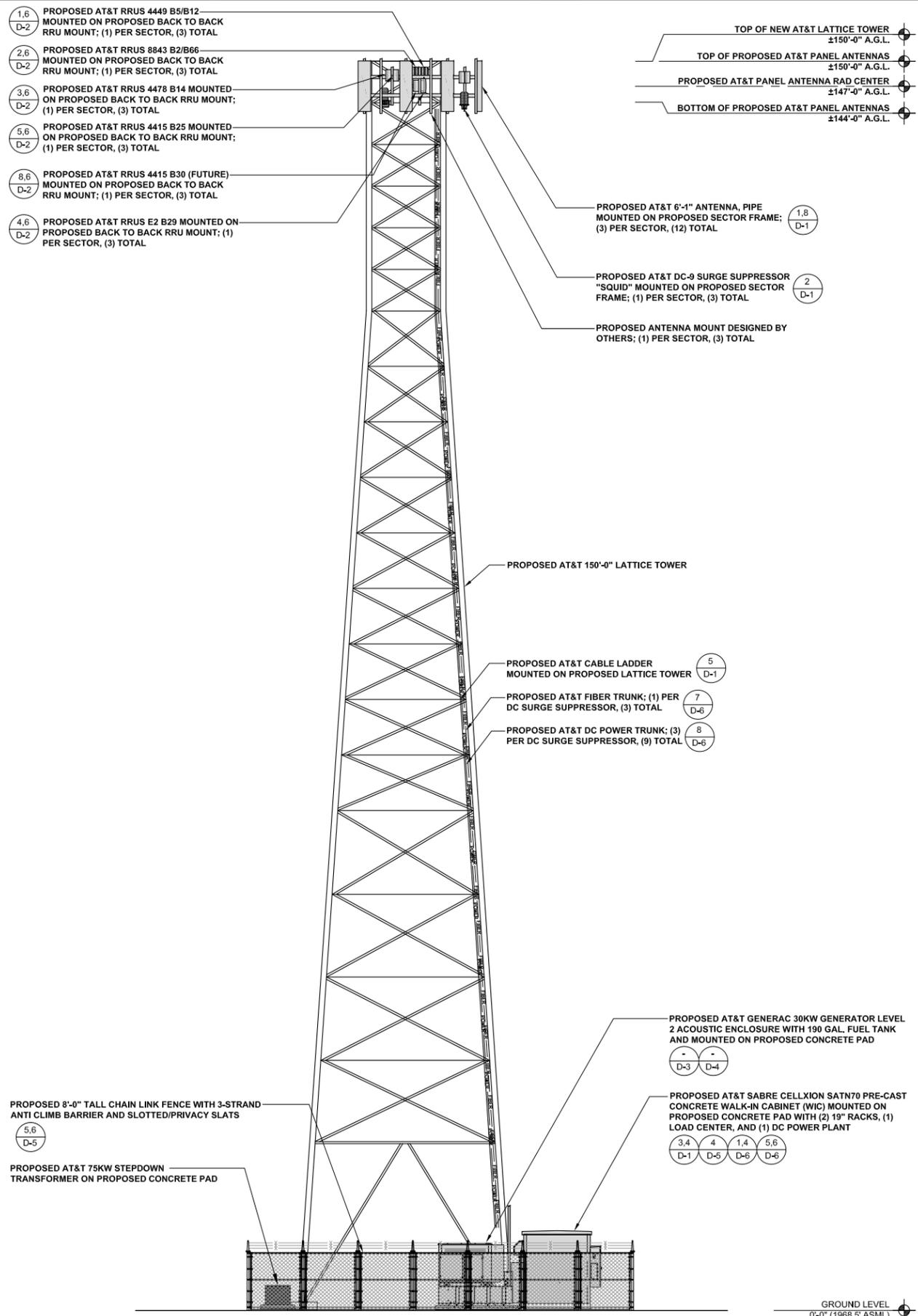
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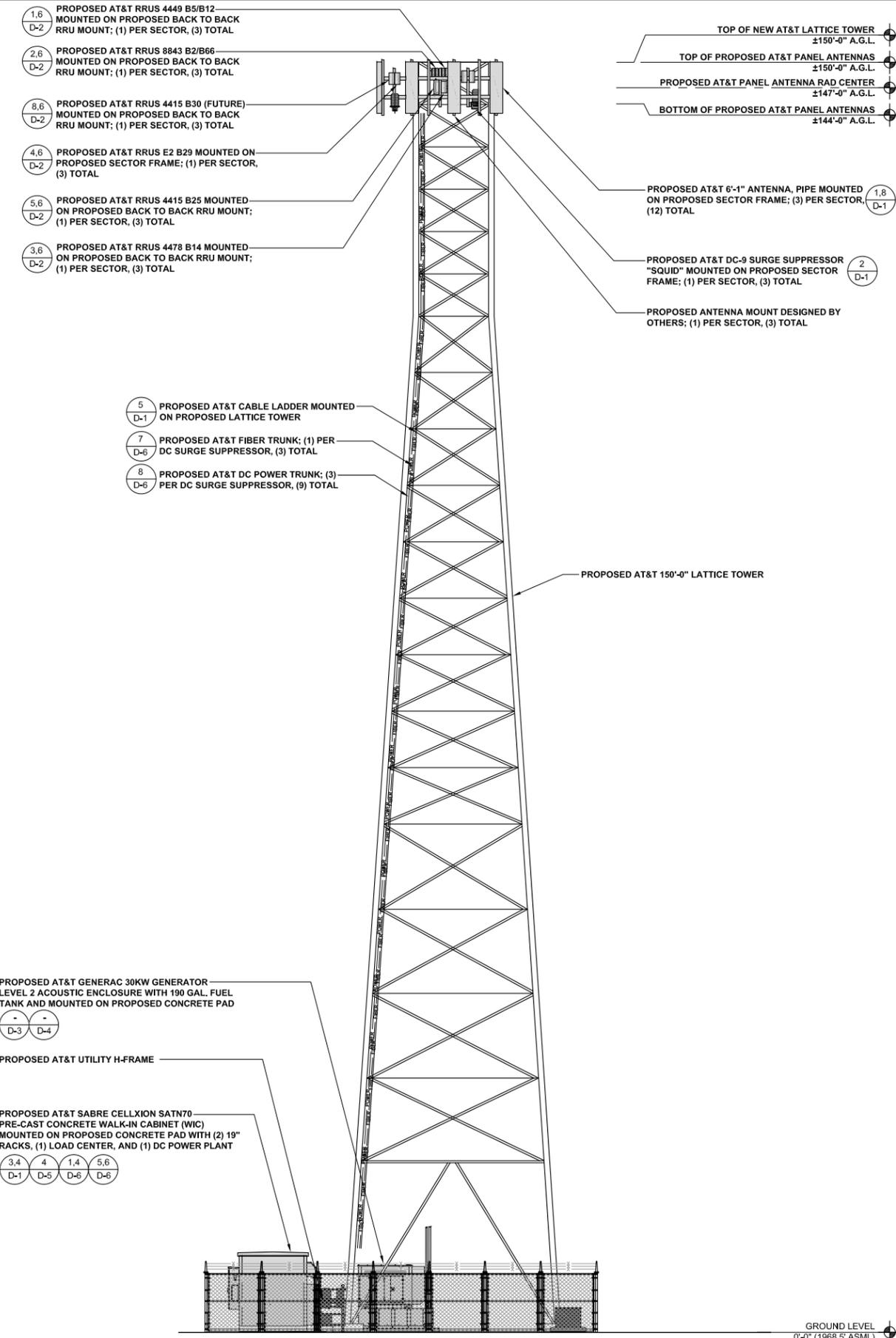
SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-5



PROPOSED EAST ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"
8' 6" 4" 2" 0" 8'



PROPOSED WEST ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"
8' 6" 4" 2" 0" 8'

ISSUED FOR:
CLEARLAKE OAKS
16200 EAST HIGHWAY 20
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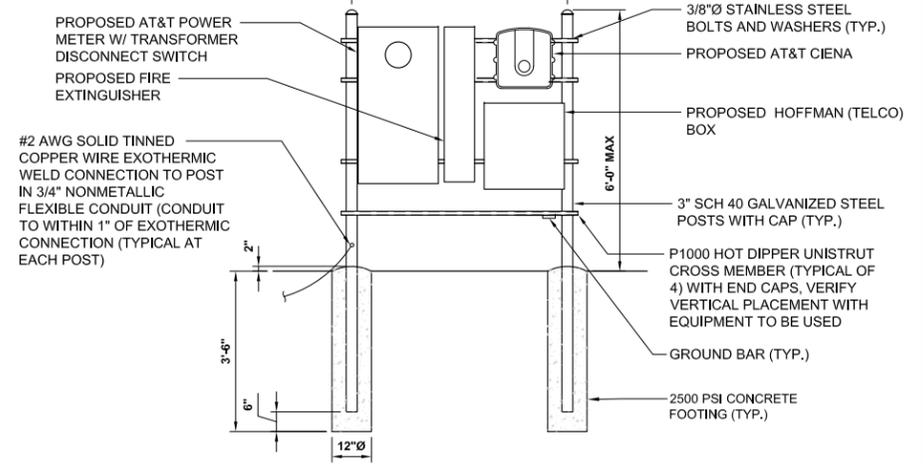
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SHEET TITLE
ELEVATIONS

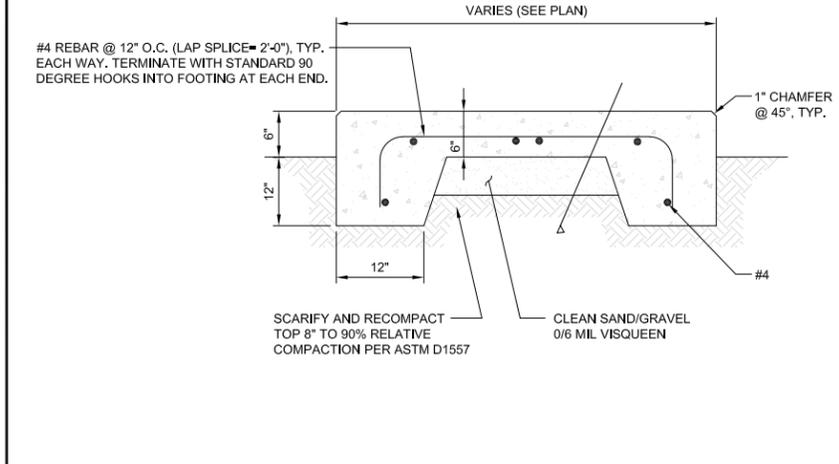
SHEET NUMBER
A-6

NOTE:
AVAILABLE FAULT CURRENT LABEL TO BE
PLACED AND DATE. SIZE OF LABEL TO BE
2' x 3' AND SHALL BE BLUE LETTERING



H-FRAME DETAIL 24"x36" SCALE: NTS
11"x17" SCALE: NTS

9 NOT USED 24"x36" SCALE: NTS
11"x17" SCALE: NTS



6 CONCRETE PAD 24"x36" SCALE: NTS
11"x17" SCALE: NTS

ISSUED FOR:
CLEARLAKE OAKS
16200 EAST HIGHWAY 20
CLEARLAKE OAKS,
CA 95423



AT&T SITE NO:	CCL05772
PROJECT NO:	11569670
DRAWN BY:	SD
CHECKED BY:	BM

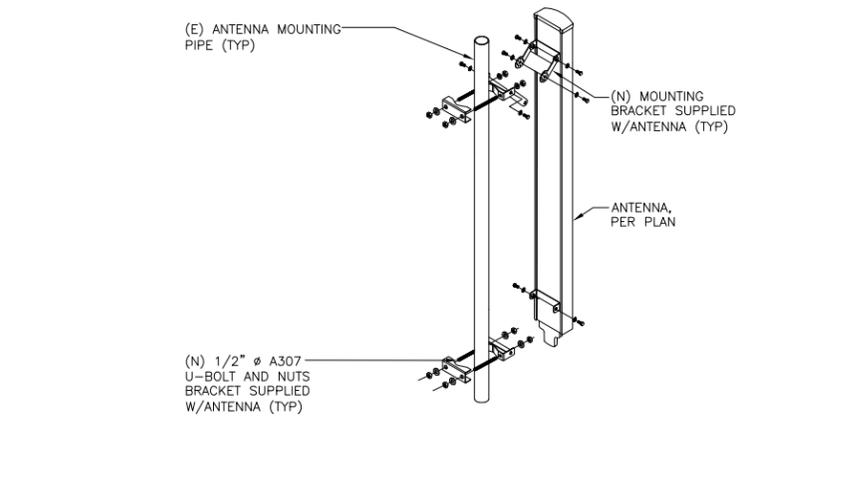
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0	09/30/2021	100% ZD'S FOR SUBMITTAL	BM
A	08/27/2021	90% ZDS FOR REVIEW	SD

LICENSOR:

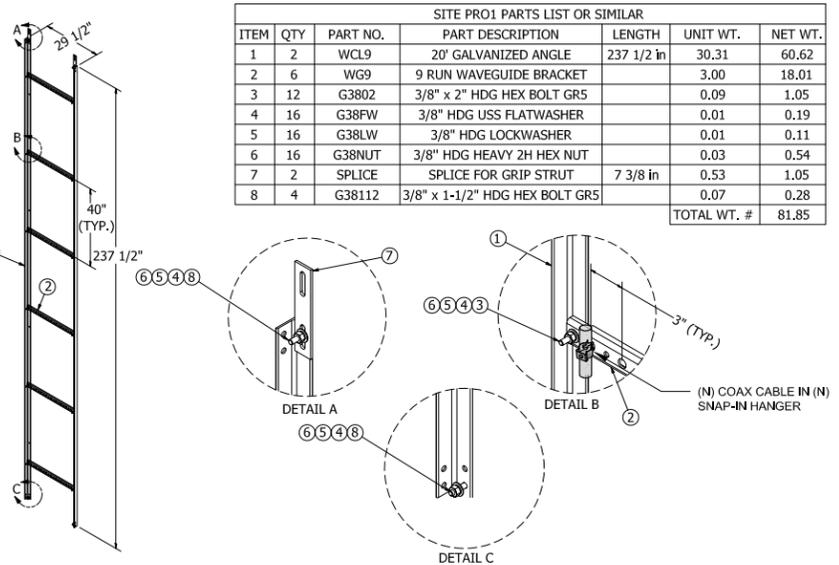
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PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET TITLE
DETAILS

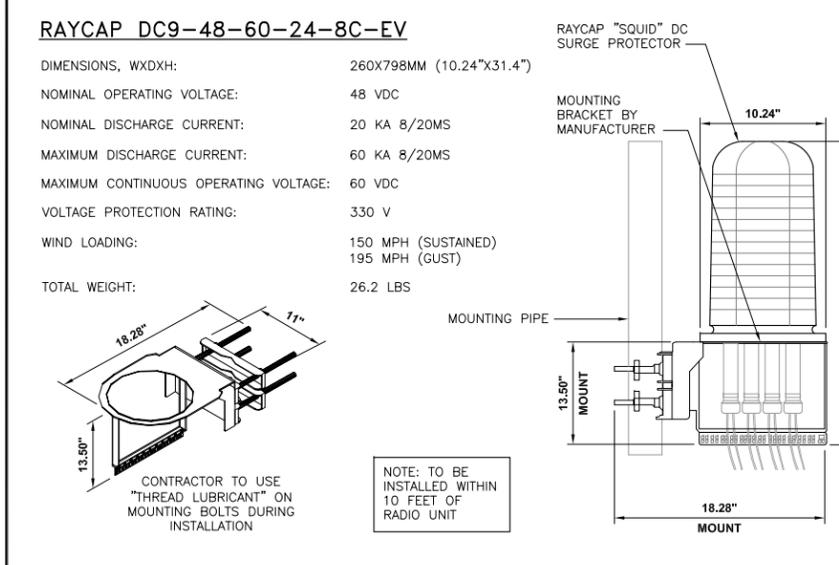
SHEET NUMBER
D-1



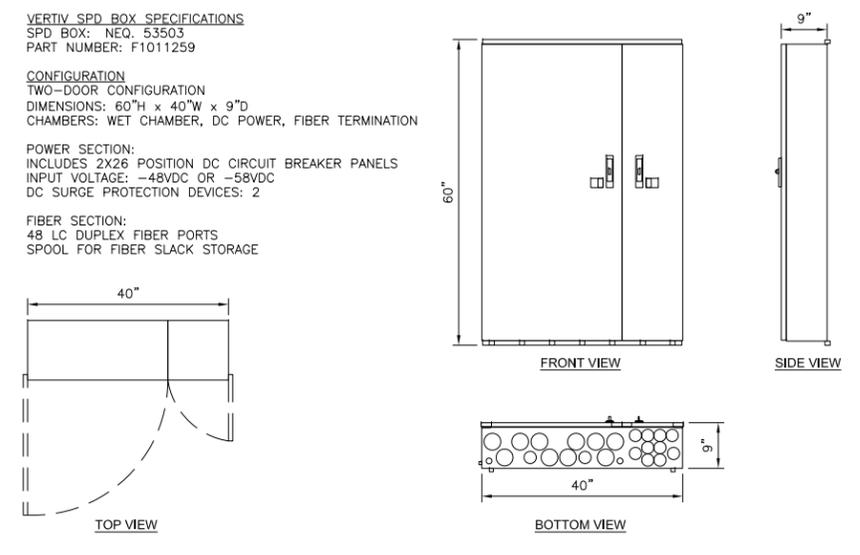
8 ANTENNA MOUNTING DETAIL 24"x36" SCALE: NTS
11"x17" SCALE: NTS



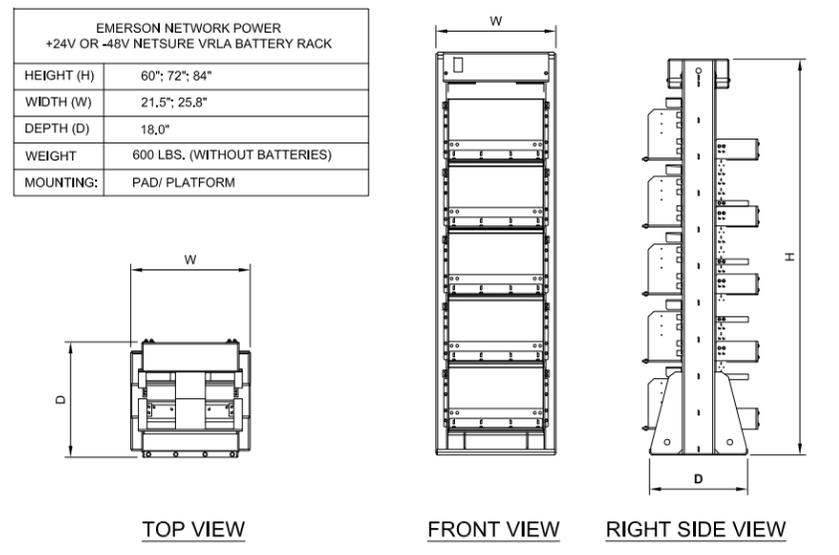
5 CABLE LADDER 24"x36" SCALE: NTS
11"x17" SCALE: NTS



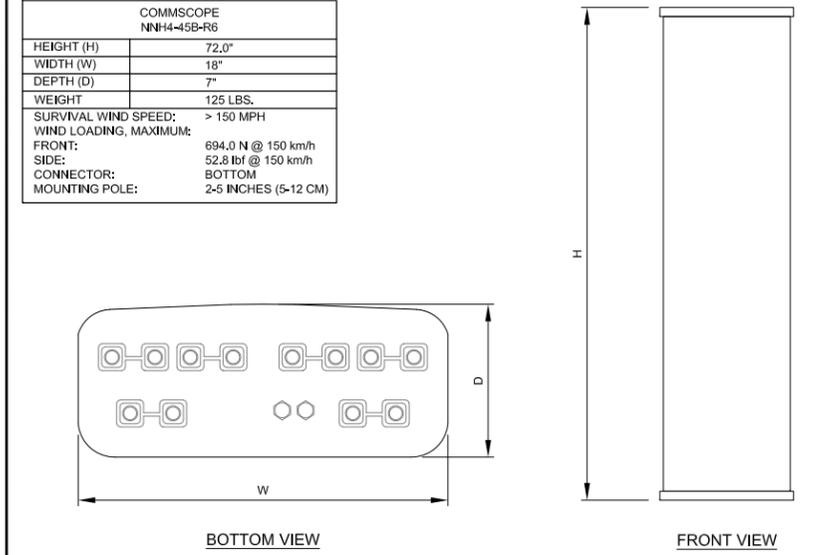
2 DC-9 "SQUID" SURGE SUPPRESSOR 24"x36" SCALE: NTS
11"x17" SCALE: NTS



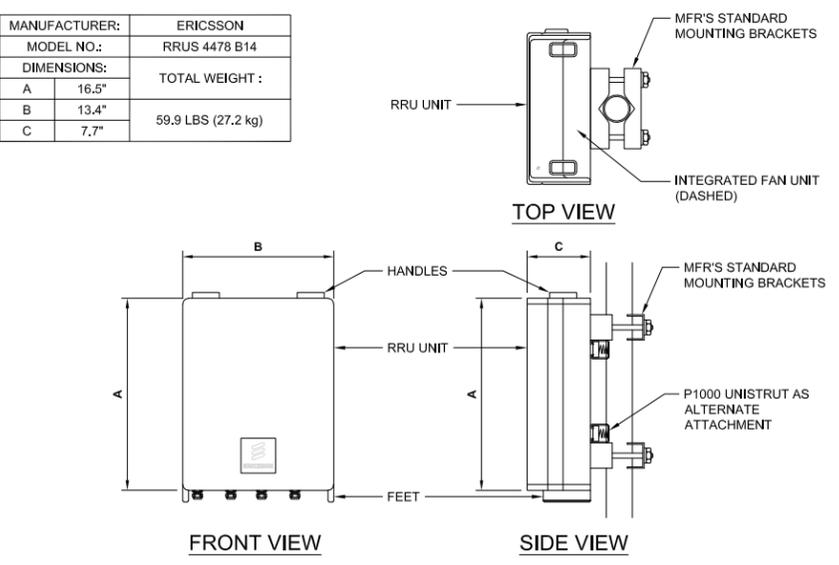
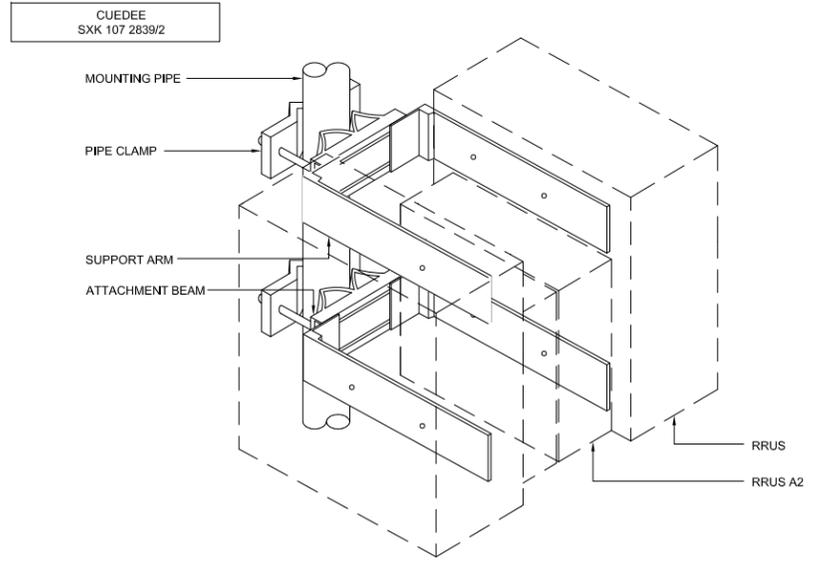
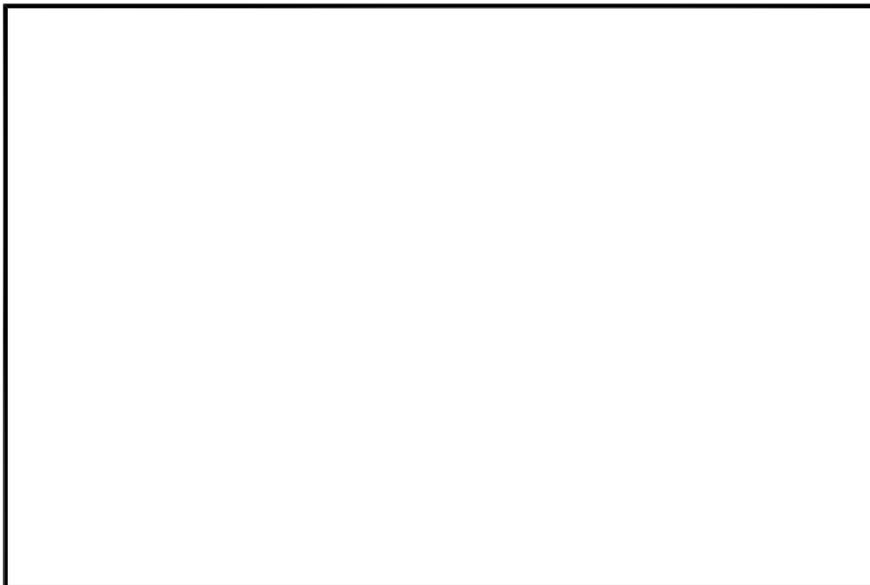
7 VERTIV SPD BOX 24"x36" SCALE: NTS
11"x17" SCALE: NTS



4 NETSURE VRLA BATTERY RACK 24"x36" SCALE: NTS
11"x17" SCALE: NTS



1 COMMSCOPE NNH4-45B-R6 24"x36" SCALE: NTS
11"x17" SCALE: NTS



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NOT USED 24"x36" SCALE: NTS
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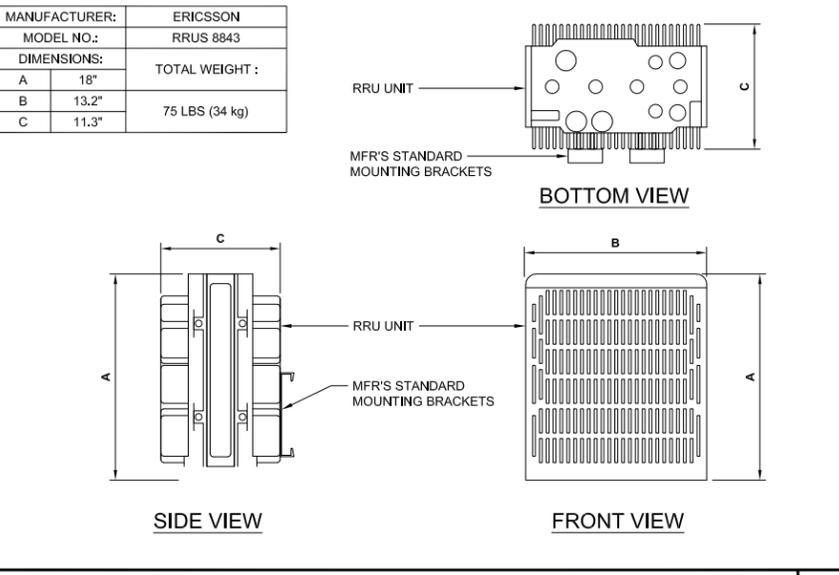
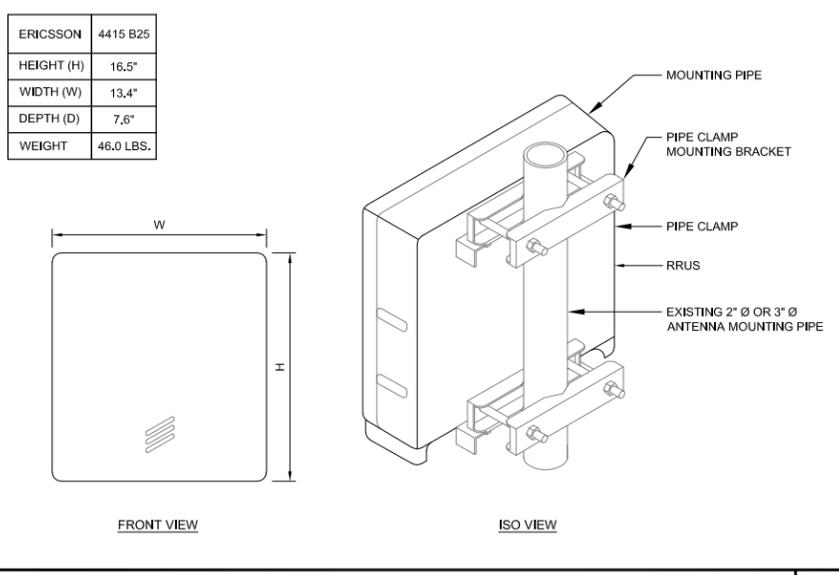
9 RRU BACK-TO-BACK MOUNT DETAIL 24"x36" SCALE: NTS
 11"x17" SCALE: NTS

6 ERICSSON RRUS 4478 B14 24"x36" SCALE: NTS
 11"x17" SCALE: NTS

3

RRUS 4415 B30

- B30
 - TX = TBD
 - RX = TBD
- CPRI 2 ports x 2.5/4.9/9.8/10.1 Gbps. Install 2 SFPs and connect 2 fiber pair to the RRUS 4415 during Initial Install.
- Only use Ericsson supplied and approved SFPs RDH10265/25
 Exception: SFP7 RDH 10265/3 for CPRI 1.4km to 10km
 Exception: SFP7 (pair): RDH 102 70/1 and RDH 102 70/2 for CPRI > 10km
- 2 external alarm inputs
- Max wind load @ 50m/sec = 260N
- Breaker size = 25A, DC Power Consumption = 670 W (for dimensioning)
- 200mm horizontal separation required for side by side mounting
- 200mm separation required from antenna backplane to radio
- 400mm vertical outdoor/indoor separation required between 2 radios
- 500mm vertical separation below antenna
- Min. Max DC cable size from squid to radio = 10.8 AWG
 - Adapter Is required for 2-wire connection
 - Shielded DC cable Is required
- Ground cable size = 2AWG
- Dimensions (incl. handles, feet and sunshield, w/o fan unit)
 - Height: 16.5" (420 mm)
 - Width: 13.4" (342 mm)
 - Depth: 5.9" (149 mm)
- Weight, excl. mounting hardware = 46 lbs (21 kg)



5 ERICSSON RRU 8843 24"x36" SCALE: NTS
 11"x17" SCALE: NTS

8 ERICSSON RRU 4415 B30 24"x36" SCALE: NTS
 11"x17" SCALE: NTS

5 ERICSSON RRU 4415 B25 24"x36" SCALE: NTS
 11"x17" SCALE: NTS

2 ERICSSON RRU 8843 24"x36" SCALE: NTS
 11"x17" SCALE: NTS

2

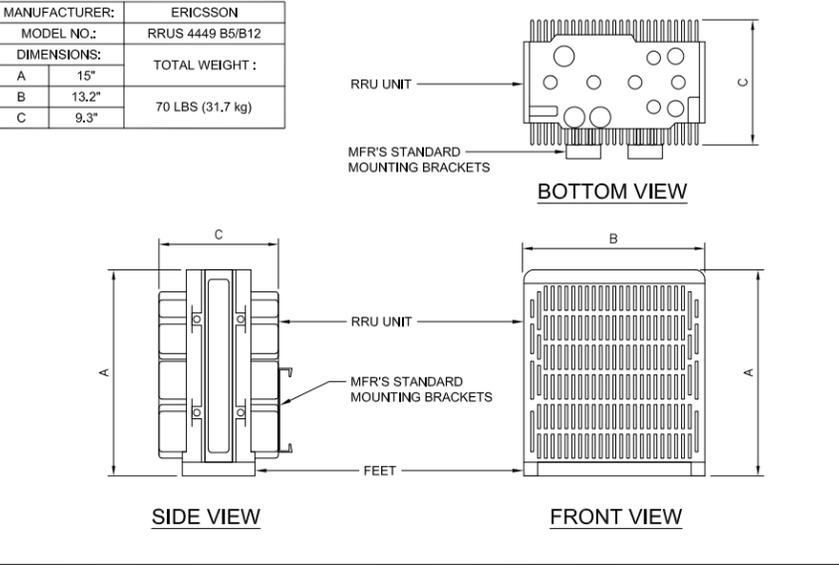
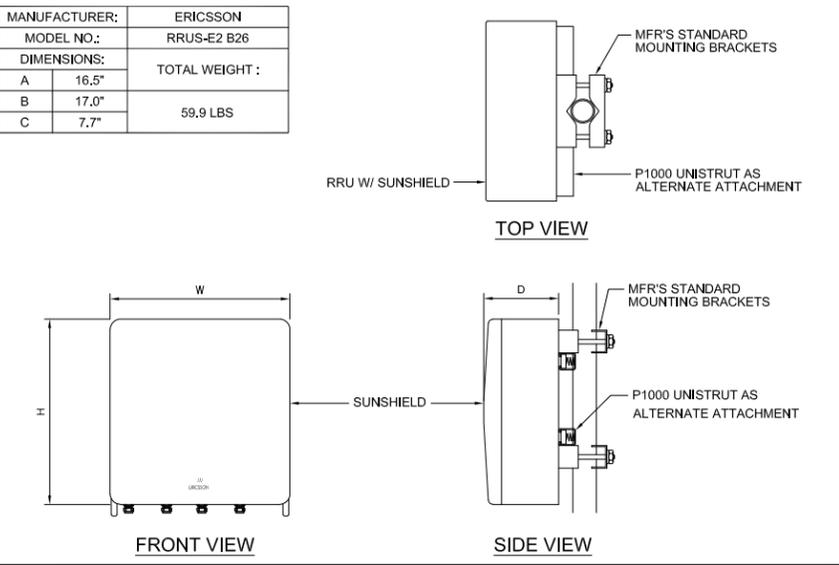
NOTE:

- THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1"Ø, SCH. 40, GALVANIZED S.S. STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQ'D LENGTH USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBARRED.
- IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2" OF LEVEL.
- DO NOT SWEEP TEST GPS ANTENNA.

SPECIFICATIONS	
HEIGHT	5"
WIDTH	3.2"
WEIGHT	0.6 LBS

MINIMUM OF 75% OR 270° IN ANY DIRECTION

OBSTRUCTIONS MUST BE BELOW 15'



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(N) GPS ANTENNA 24"x36" SCALE: NTS
 11"x17" SCALE: NTS

7 ERICSSON RRUS-E2 B29 24"x36" SCALE: NTS
 11"x17" SCALE: NTS

4 ERICSSON RRU 4449 B5/B12 24"x36" SCALE: NTS
 11"x17" SCALE: NTS

1

SHEET TITLE
DETAILS

SHEET NUMBER
D-2

PROPOSED GENERAC 30kW STAND-BY GENERATOR AND DIESEL FUEL TANK	
FUEL CAPACITY:	190 GALLON
ESTIMATED RUN TIME WITH FULL LOAD:	77 HOURS
DIMENSIONS, LxWxH:	95"x38"x87"
SOUND ENCLOSURE, SOUND PRESSURE AT 23 FT:	N/A dB(A)
30kW GENERATOR WITH SOUND ENCLOSURE AND 190 GALLON FUEL TANK WEIGHT:	4,600 LBS

EXHAUST VENT WITH RAIN CAP

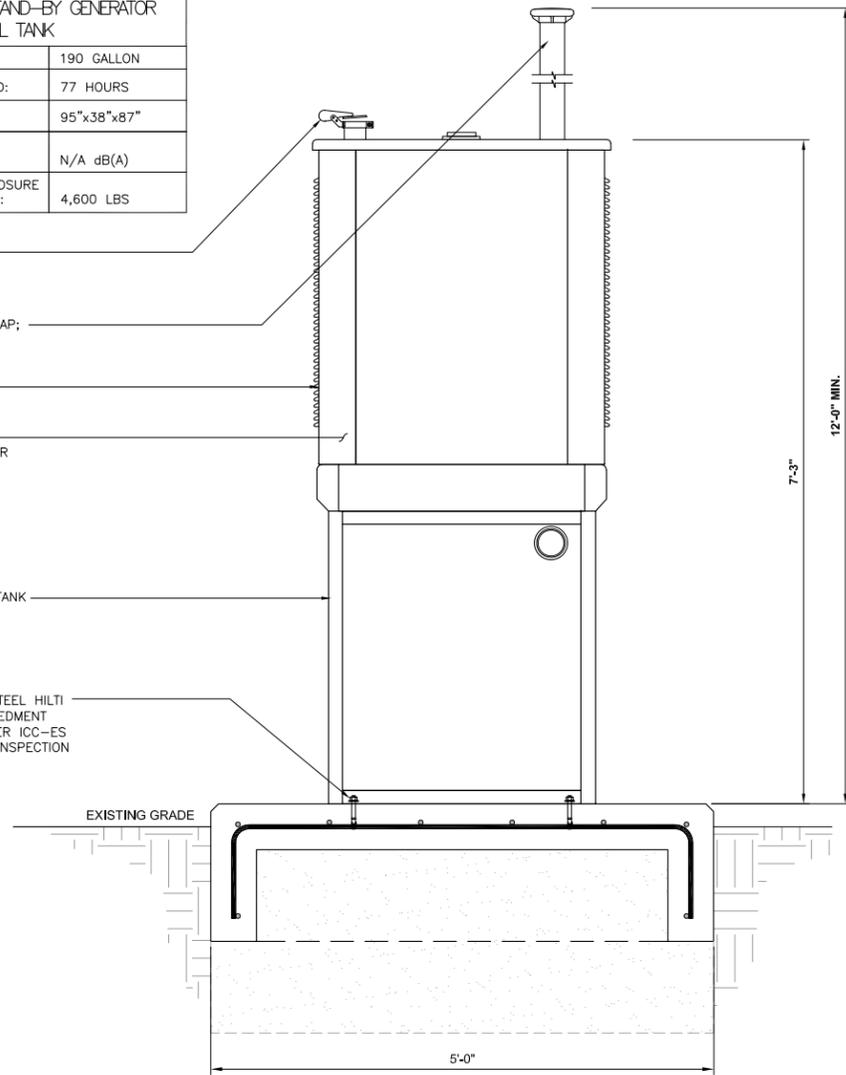
GALVANIZED MUSHROOM VENT CAP; PAINT TO MATCH EXISTING BUILDING.

PROPOSED GENERATOR W/ SOUND ENCLOSURE

FADE-, SCRATCH-, AND CORROSION- RESISTANT POWDER BAKED FINISH. WITH SIGNAGE

PROPOSED 190 GALLON FUEL TANK

PROPOSED 3/4" STAINLESS STEEL HILTI KB-TZ ANCHOR w/ 3.75" EMBEDMENT (AISI 304 OR 316). INSTALL PER ICC-ES ESR-1917. PERIODIC SPECIAL INSPECTION REQUIRED; (6) TOTAL



GENERATOR ELEVATION

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

3

FRONT ELEVATION

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

1

GALVANIZED MUSHROOM VENT CAP; PAINT TO MATCH EXISTING BUILDING.

EXHAUST VENT WITH RAIN CAP

FADE-, SCRATCH-, AND CORROSION- RESISTANT POWDER BAKED FINISH. WITH SIGNAGE

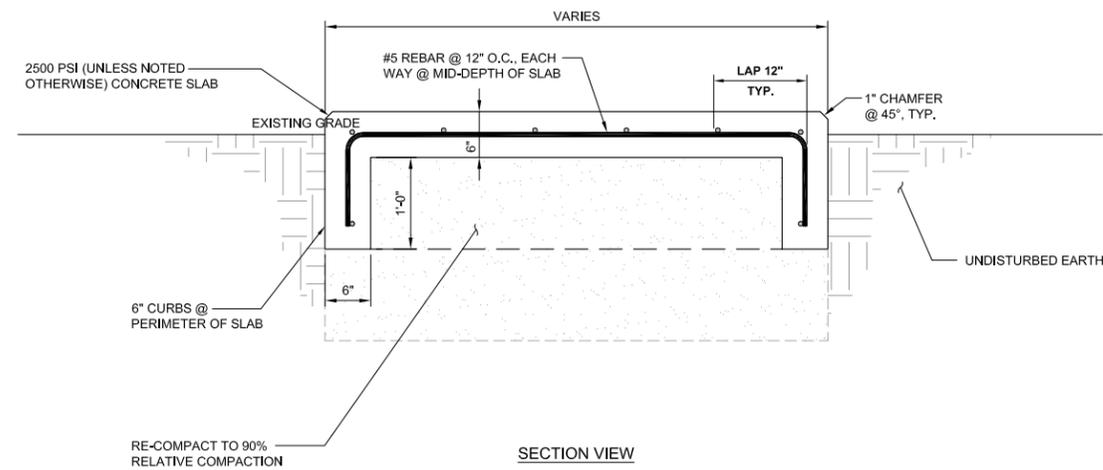
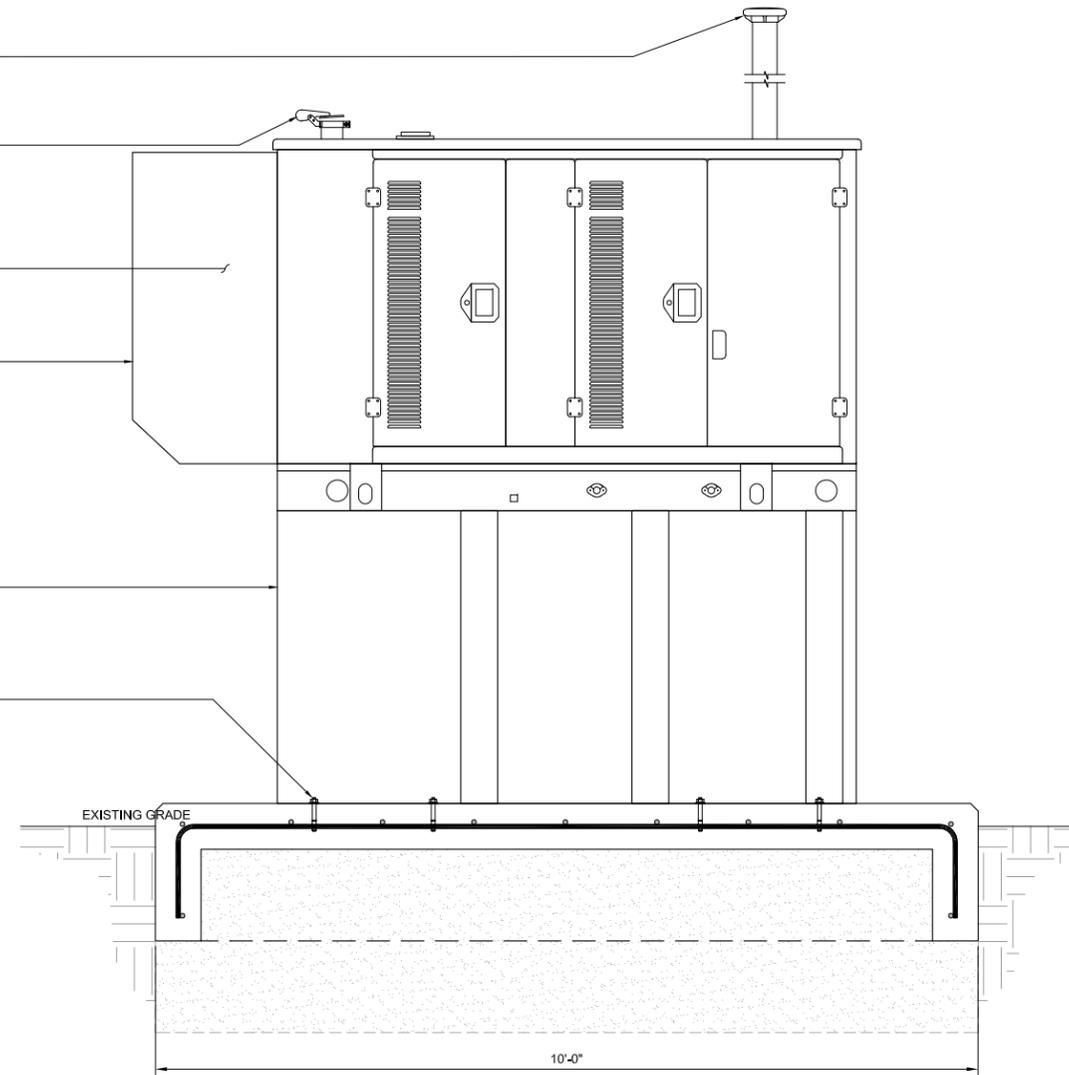
PROPOSED GENERATOR WITH SOUND ENCLOSURE.

PROPOSED 190 GALLON FUEL-TANK

PROPOSED 3/4" STAINLESS STEEL HILTI KB-TZ ANCHOR w/ 3.75" EMBEDMENT (AISI 304 OR 316). INSTALL PER ICC-ES ESR-1917. PERIODIC SPECIAL INSPECTION REQUIRED; (6) TOTAL

NOTE:

- GC TO CHECK WITH MANUFACTURE FOR LATEST GENERATOR SPECIFICATIONS.



CONCRETE PAD (SECTION)

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

4

CONCRETE PAD PLAN

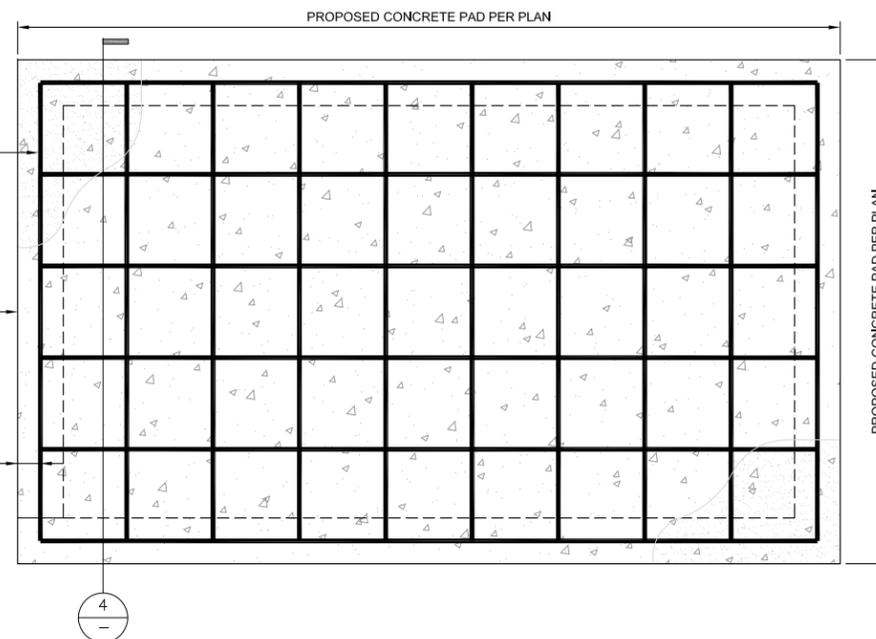
24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

#5 @ 12" O.C., EA. WAY @ MID DEPTH, ALL REBAR SHALL BE 3" CLR. MIN. FROM EDGE OF CONCRETE

2500 PSI (UNLESS NOTED OTHERWISE) CONCRETE SLAB

3" CLR. TYP.



ISSUED FOR:

CLEARLAKE OAKS
16200 EAST HIGHWAY 20
CLEARLAKE OAKS,
CA 95423



5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

AT&T SITE NO: CCL05772

PROJECT NO: 11569670

DRAWN BY: SD

CHECKED BY: BM

REV	DATE	DESCRIPTION	BY
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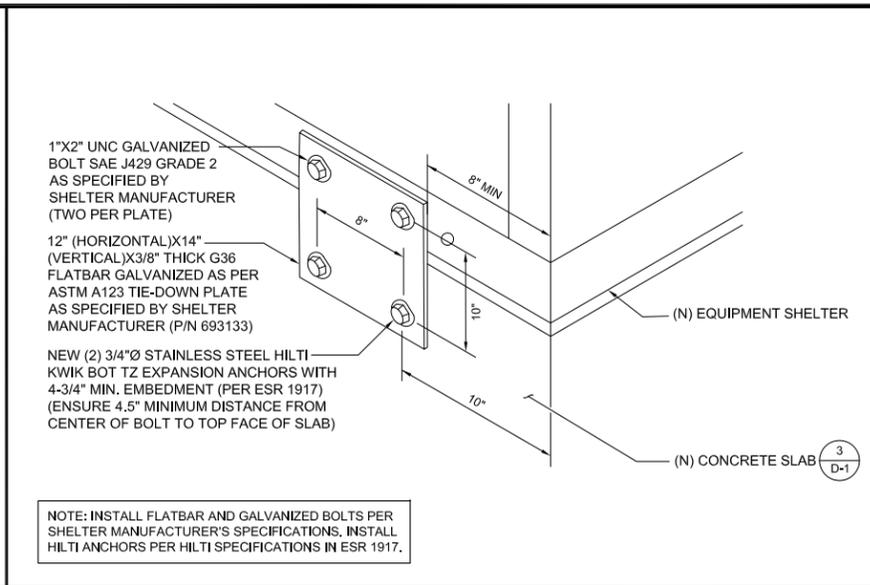
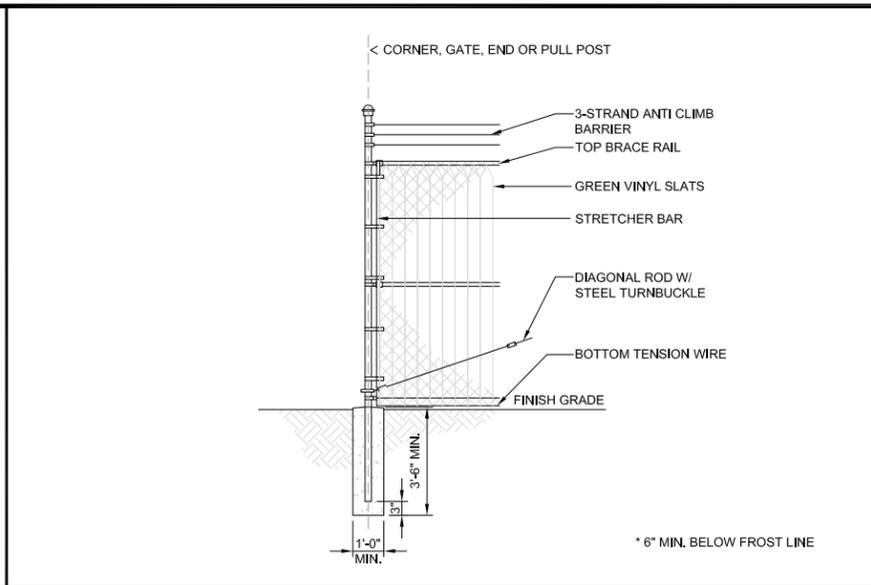
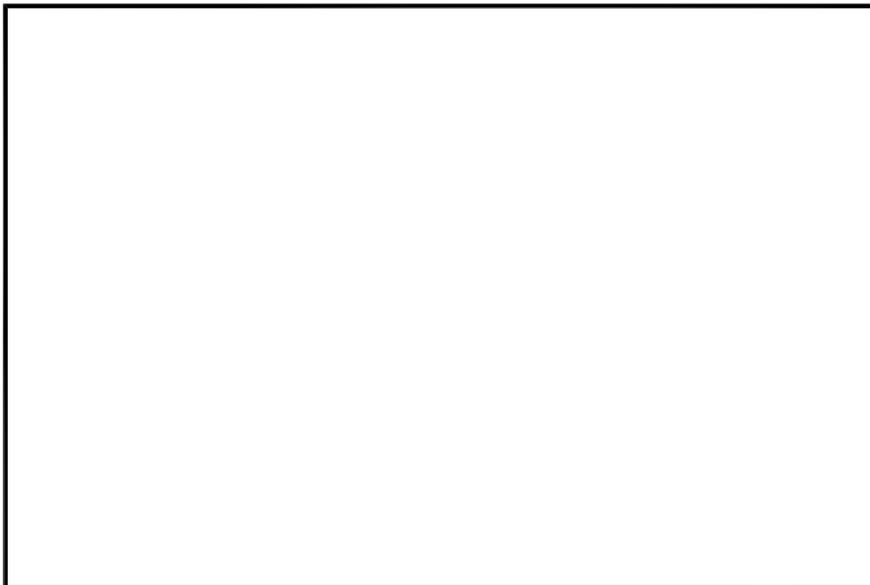
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SHEET TITLE

DETAILS

SHEET NUMBER

D-4



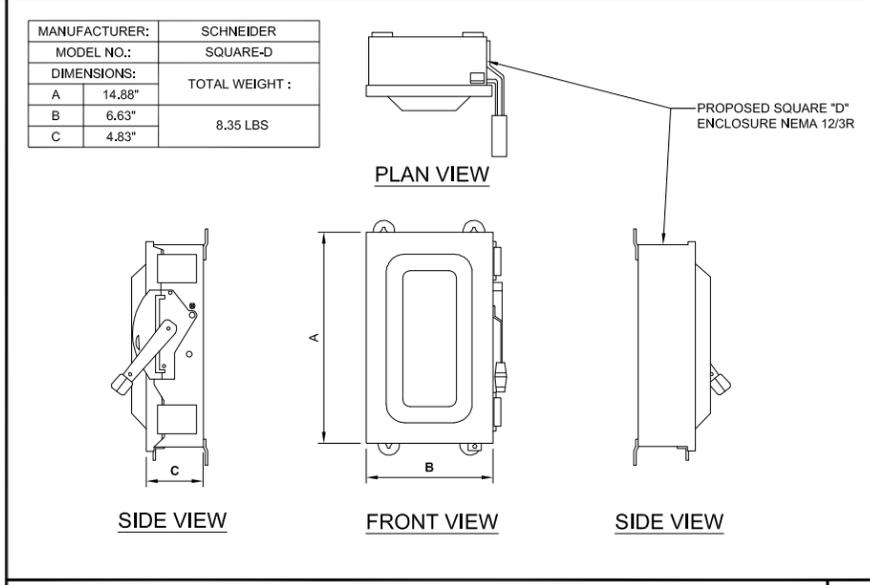
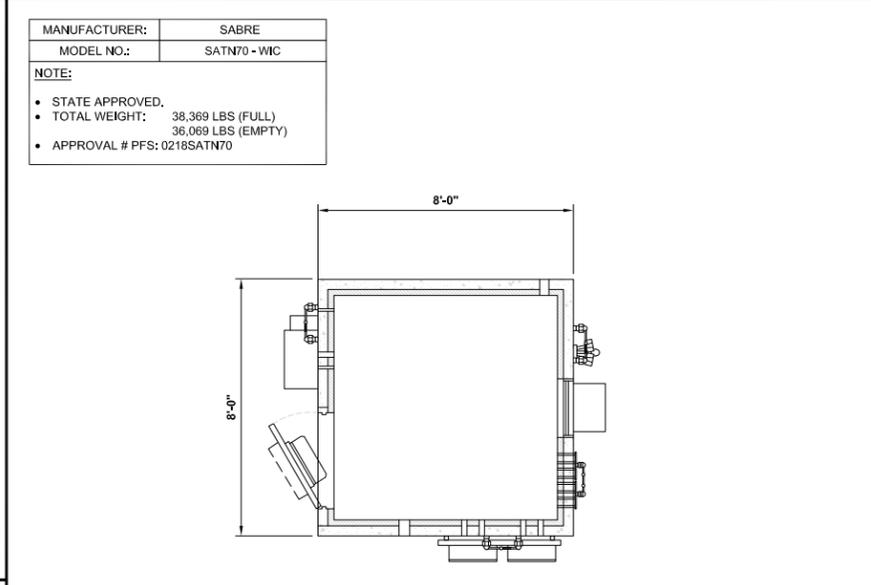
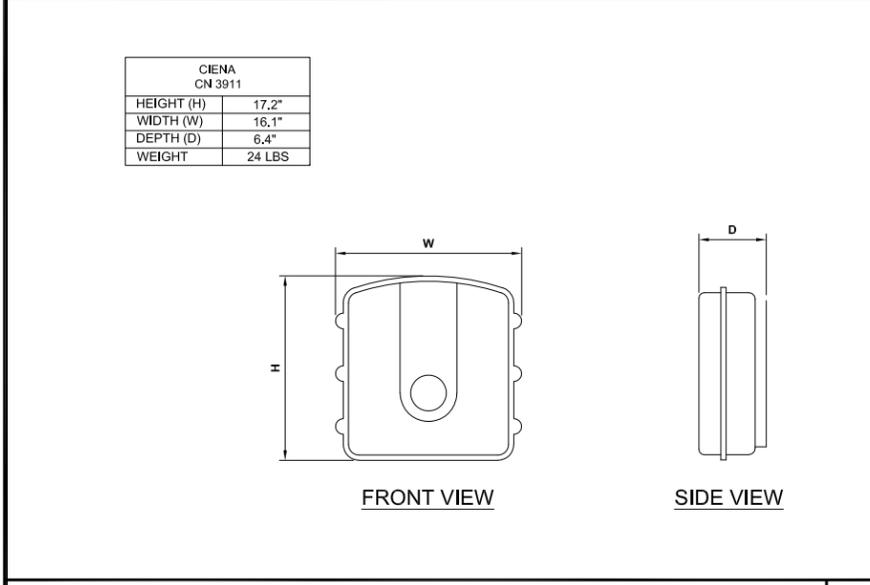
ISSUED FOR:
CLEARLAKE OAKS
 16200 EAST HIGHWAY 20
 CLEARLAKE OAKS,
 CA 95423



NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS **8**

CHAIN LINK FENCE 24"x36" SCALE: NTS 11"x17" SCALE: NTS **5**

FLAT TIE-DOWN CONNECTION DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS **3**

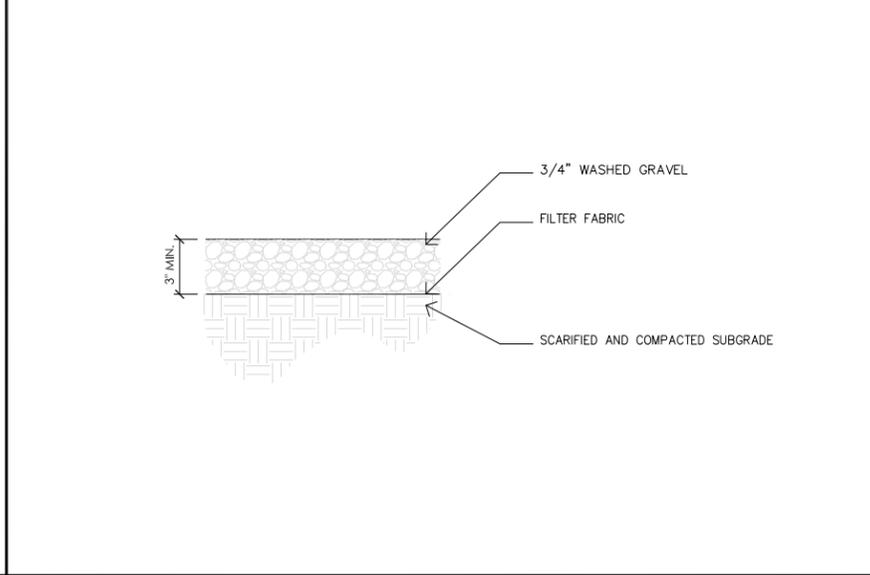
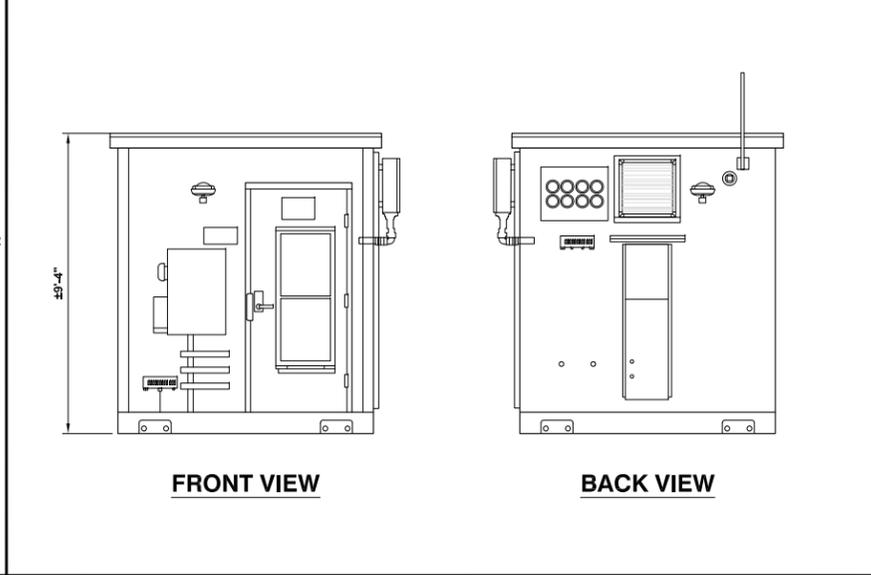
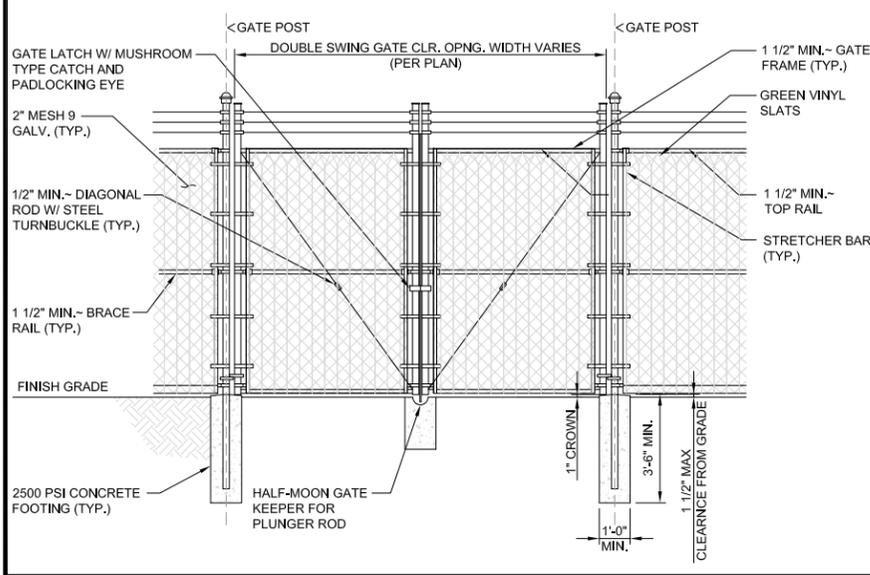


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PROJECT NO:	11569670
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CIENA CN 3911 24"x36" SCALE: NTS 11"x17" SCALE: NTS **7**

CONCRETE COMMERCIAL SHELTER 24"x36" SCALE: NTS 11"x17" SCALE: NTS **4**

DISCONNECT SWITCH 24"x36" SCALE: NTS 11"x17" SCALE: NTS **2**



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REV	DATE	DESCRIPTION	BY
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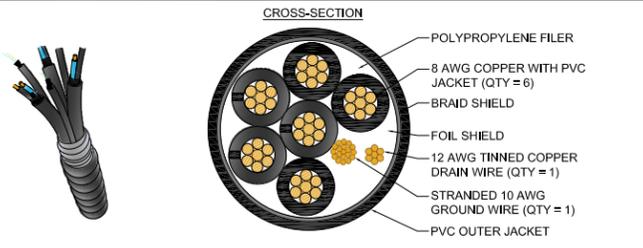
CHAIN LINK DOUBLE ACCESS GATE 24"x36" SCALE: NTS 11"x17" SCALE: NTS **6**

CONCRETE COMMERCIAL SHELTER 24"x36" SCALE: NTS 11"x17" SCALE: NTS **4**

GRAVEL DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS **1**

SHEET TITLE
DETAILS

SHEET NUMBER
D-5



COMMSCOPE PWRT-606-S (OR LARGER AS NEEDED)
REMOTE RADIO HEAD POWER CABLE, 6 CONDUCTOR WITH SHIELD, 6 AWG (13.29 mm²)

CONSTRUCTION TYPE: DISCRETE POWER CABLE | NON-ARMORED
JACKET COLOR: BLACK

DIMENSIONS
CABLE WEIGHT: 1,324.466 kg/km | 890 lb/kft
DIAMETER OVER DIELECTRIC: 6.325 mm | 0.249 in
JACKET THICKNESS: 2.032 mm | 0.08 in

ELECTRICAL SPECIFICATIONS
CABLE WEIGHT CONDUCTOR DC RESISTANCE: 0.44 ohms/kft | 1,444 ohms/km
SAFETY VOLTAGE RATING: 600V

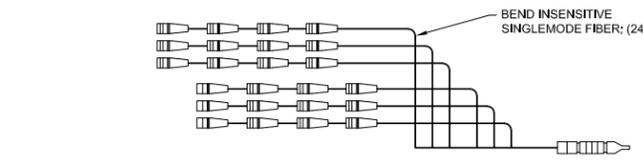
ENVIRONMENTAL SPECIFICATIONS
ENVIRONMENTAL SPACE: UV RESISTANT FOR OUTDOOR AND/OR DIRECT BURIAL INSTALLATIONS
OPERATING TEMPERATURE: -40 °C TO +90 °C (-40 °F TO +194 °F)
SAFETY STANDARD: NEC ARTICLE 336 (TYP TC)
REGULATORY COMPLIANCE/CERTIFICATIONS: ISO 9001:2008

PROPOSED POWER TRUNK 24"x36" SCALE: NTS 11"x17" SCALE: NTS

8 EQUIPMENT RACK SAFETY CABLES 24"x36" SCALE: NTS 11"x17" SCALE: NTS

5 UTILITY JOINT TRENCH DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS

3



COMMSCOPE RFFT-36SM-001-75M
BEND INSENSITIVE SINGLEMODE FIBER LC TO LC 24 FIBER CABLE ASSEMBLY WITH PULLING GRIP, 125 M

CONSTRUCTION TYPE: DISCRETE FIBER TRUNK
JACKET COLOR: BLACK

DIMENSIONS
CORD LENGTH: 125.0 M | 410.1 FT
BREAKOUT LENGTH, FIBER, END 1: 100 MM | 4 IN
BREAKOUT LENGTH, FIBER, END 2: 2200 MM | 87 IN

ENVIRONMENTAL SPECIFICATIONS
ENVIRONMENTAL SPACE: RISER | WIRELESS INSTALLATION
OPERATING TEMPERATURE: -40°C TO +70 °C (-40°F TO +158 °F)

REGULATORY COMPLIANCE/CERTIFICATIONS
ROHS 2011/65/EU
ISO 9001:2

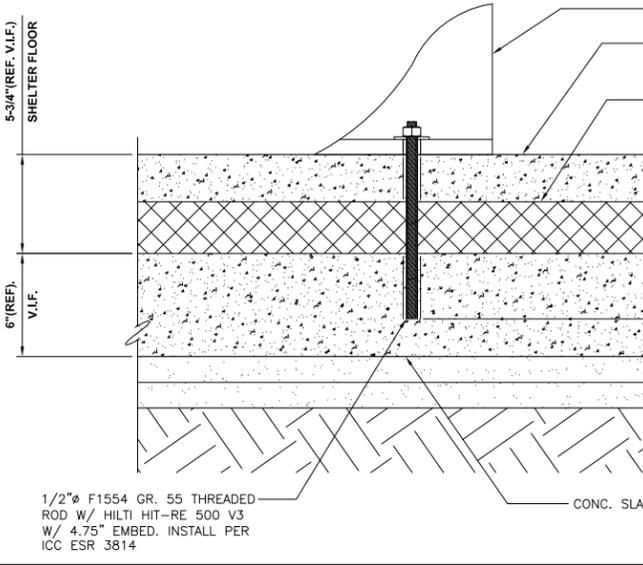
COMPLIANT
DESIGNED, MANUFACTURED AND/OR DISTRIBUTED UNDER THIS QUALITY MANAGEMENT SYSTEM

PROPOSED FIBER TRUNK 24"x36" SCALE: NTS 11"x17" SCALE: NTS

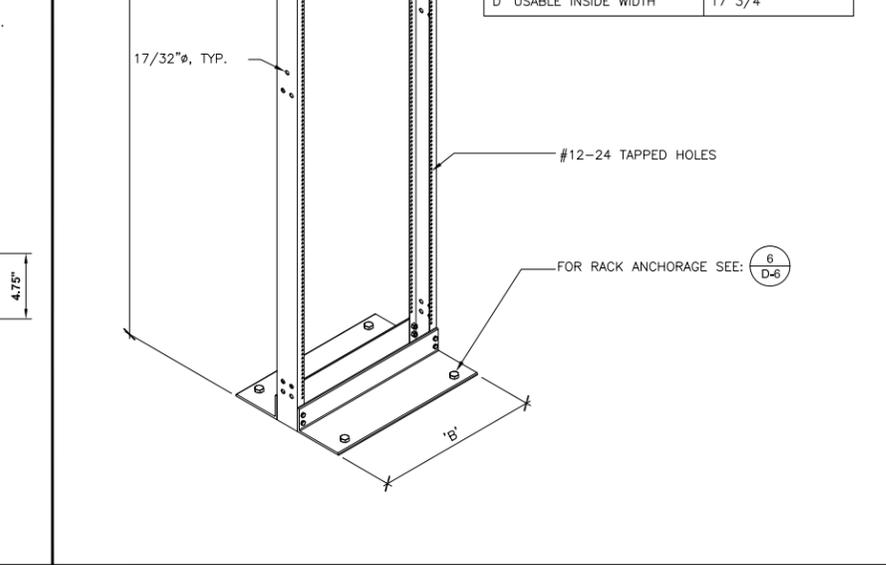
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UTILITY TRENCH DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS

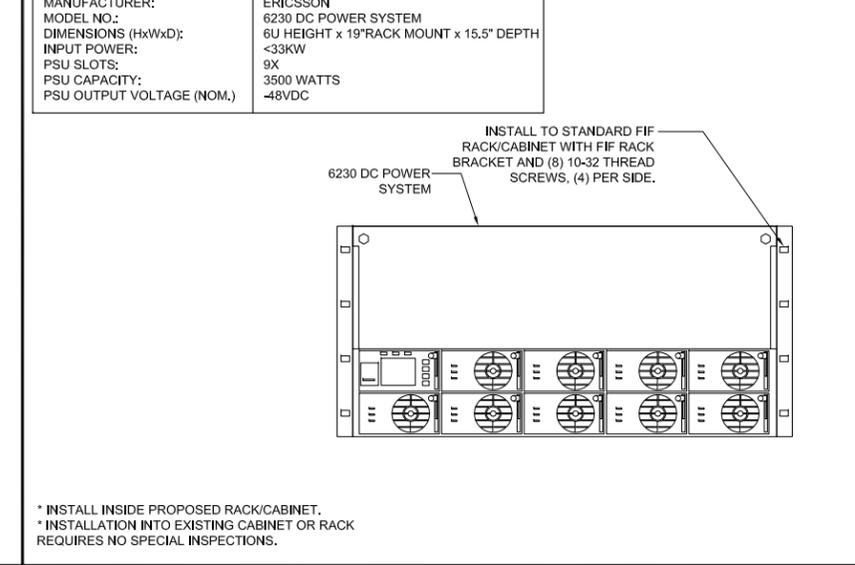
2



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



19" EQUIPMENT RACK 24"x36" SCALE: NTS 11"x17" SCALE: NTS



6230 DC POWER SYSTEM 24"x36" SCALE: NTS 11"x17" SCALE: NTS

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SHEET TITLE
DETAILS

SHEET NUMBER
D-6



GHIS SAFETY DATA SHEET

Table with 2 columns: Category and Description. Includes sections for I. PRODUCT IDENTIFICATION, II. HAZARD IDENTIFICATION, III. COMPOSITION/INFORMATION ON INGREDIENTS, and IV. FIRST AID MEASURES.

Z99-SDS-MARSPR 2013-09

Page 1 of 7

FOR REFERENCE ONLY

Table with 3 columns: Ingredient, CAS Number, and % by Wt. Includes sections for V. FIRE FIGHTING MEASURES, VI. HANDLING AND STORAGE, and VII. ACCIDENTAL RELEASE MEASURES.

Z99-SDS-MARSPR 2013-09

Page 2 of 7

Table with 6 columns: Ingredient, US OSHA, US ACGIH, US NIOSH, Quebec PELV, Ontario OEL, and EU OEL. Includes sections for VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION, IX. PHYSICAL AND CHEMICAL DATA - ELECTROLYTE, and X. STABILITY & REACTIVITY DATA.

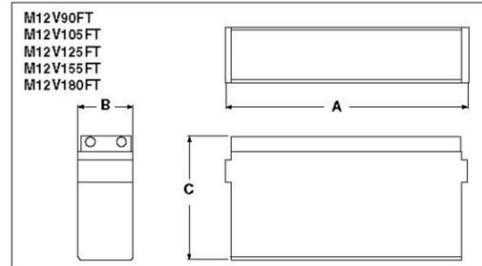
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MARATHON® Front Terminal Specifications

Table with 10 columns: Model Number, Voltage, Capacity (Ah) at 8hr, 10hr, and 1.00 VPC, and Nominal Dimensions (Inches and Millimeters) and Nominal Weight (lbs. and kg).



Float Voltage & Charging

Constant Voltage charging is recommended. Recommended float voltage: 2.27 VPC @ 25°C (77°F). Float Voltage Range: 2.25 to 2.30 VPC @ 25°C (77°F).

NOTE: Design and/or application adjust to charge without notice. If questions arise, contact your local GNB sales representative for clarification.

MARATHON® Front Terminal Electrical Data

Table with 4 columns: Model Number, Short Circuit Current Amps, Internal Resistance (mOhms), and Internal Resistance (mOhms).

ISSUED FOR:

CLEARLAKE OAKS

16200 EAST HIGHWAY 20 CLEARLAKE OAKS, CA 95423



5001 EXECUTIVE PARKWAY SAN RAMON, CALIFORNIA 94583



1387 CALLE AVANZADO SAN CLEMENTE CA 92673 (949) 391-8824

AT&T SITE NO: CCL05772

PROJECT NO: 11569670

DRAWN BY: SD

CHECKED BY: BM

Table with 5 columns: REV, DATE, DESCRIPTION, BY. Includes revision history for the document.

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SHEET TITLE BATTERY SPECIFICATIONS

SHEET NUMBER D-7

Table with 2 columns: Category and Description. Includes sections for X. STABILITY & REACTIVITY DATA, XI. TOXICOLOGICAL DATA, and XII. REGULATORY INFORMATION.

Z99-SDS-MARSPR 2013-09

Page 4 of 7

Table with 2 columns: Category and Description. Includes sections for XIII. DISPOSAL INFORMATION, XIV. TRANSPORT INFORMATION, and XV. REGULATORY INFORMATION.

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Page 5 of 7

Table with 3 columns: US State Notifications and Warnings, Identification, and Notifications/Warnings. Includes regulatory information for various states.

Z99-SDS-MARSPR 2013-09

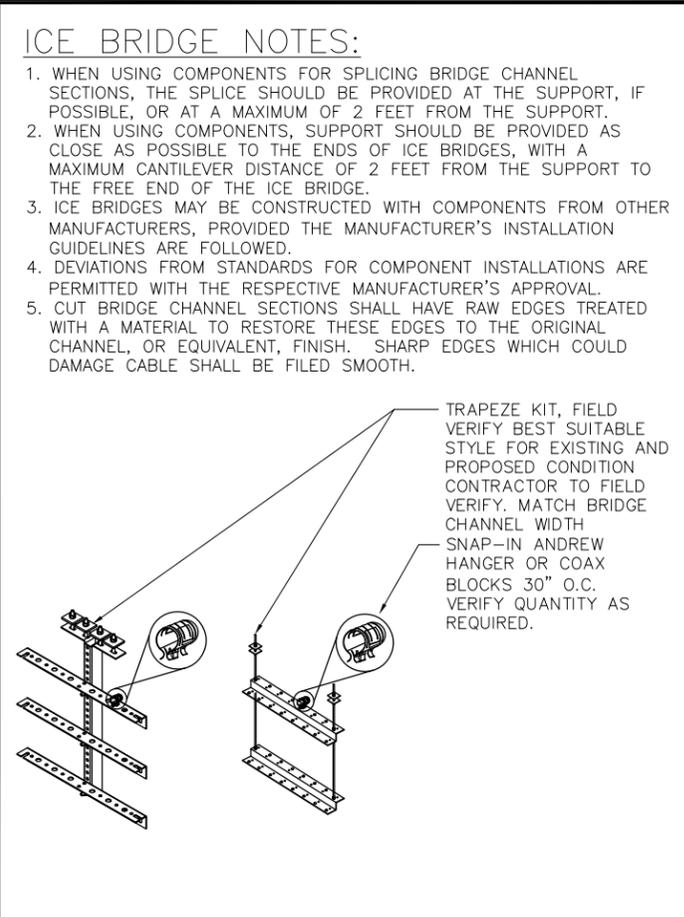
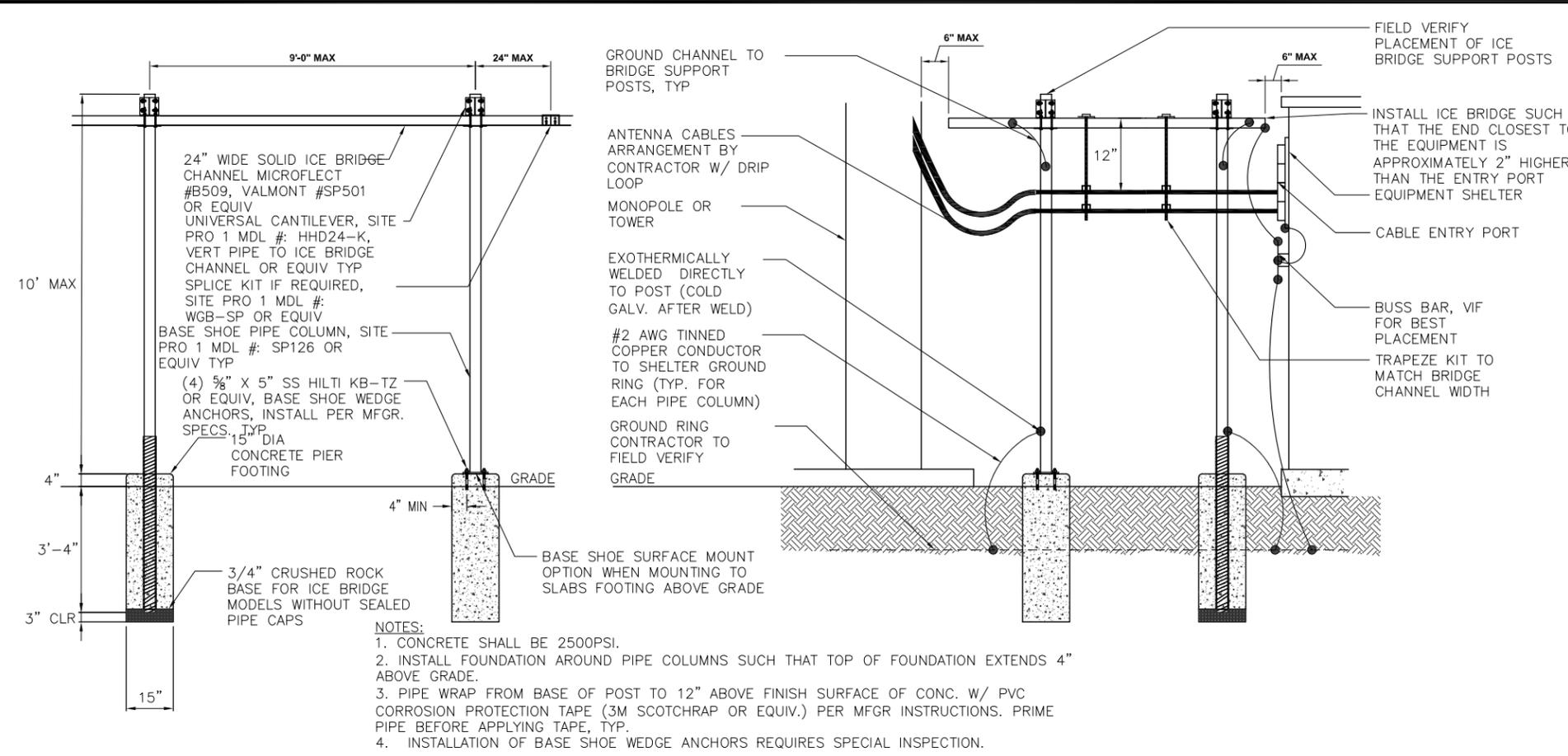
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BATTERY INFORMATION

Table with 5 columns: BATTERY MODEL, TOTAL # OF BATTERY UNITS INSTALLED, TOTAL ELECTROLYTE VOLUME (GAL) PER UNIT, TOTAL ELECTROLYTE WEIGHT (LBS) PER UNIT, and % SULFURIC ACID BY VOL (GAL).

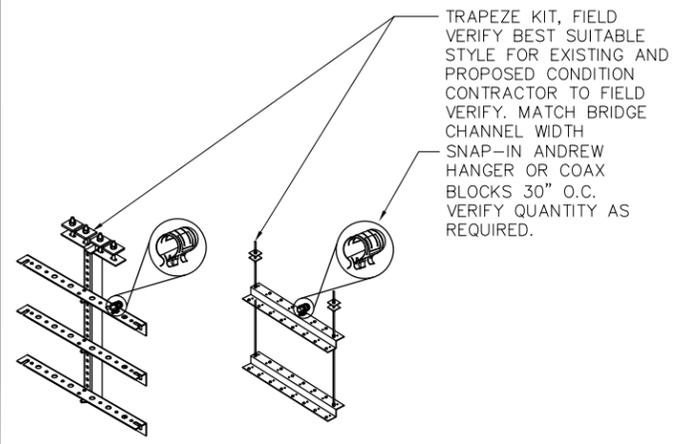
UL Recognized Component





ICE BRIDGE NOTES:

1. WHEN USING COMPONENTS FOR SPlicing BRIDGE CHANNEL SECTIONS, THE SPLICE SHOULD BE PROVIDED AT THE SUPPORT, IF POSSIBLE, OR AT A MAXIMUM OF 2 FEET FROM THE SUPPORT.
2. WHEN USING COMPONENTS, SUPPORT SHOULD BE PROVIDED AS CLOSE AS POSSIBLE TO THE ENDS OF ICE BRIDGES, WITH A MAXIMUM CANTILEVER DISTANCE OF 2 FEET FROM THE SUPPORT TO THE FREE END OF THE ICE BRIDGE.
3. ICE BRIDGES MAY BE CONSTRUCTED WITH COMPONENTS FROM OTHER MANUFACTURERS, PROVIDED THE MANUFACTURER'S INSTALLATION GUIDELINES ARE FOLLOWED.
4. DEVIATIONS FROM STANDARDS FOR COMPONENT INSTALLATIONS ARE PERMITTED WITH THE RESPECTIVE MANUFACTURER'S APPROVAL.
5. CUT BRIDGE CHANNEL SECTIONS SHALL HAVE RAW EDGES TREATED WITH A MATERIAL TO RESTORE THESE EDGES TO THE ORIGINAL CHANNEL, OR EQUIVALENT, FINISH. SHARP EDGES WHICH COULD DAMAGE CABLE SHALL BE FILED SMOOTH.



ICE BRIDGE DETAIL

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

1 TRAPEZE DETAIL

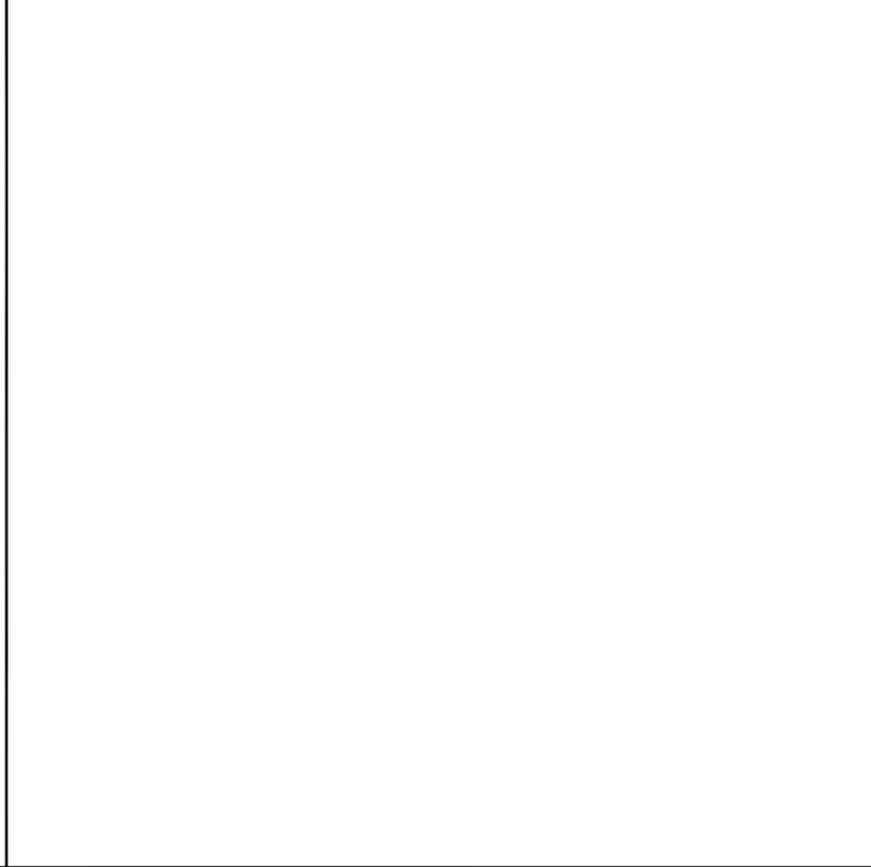
24"x36" SCALE: NTS
11"x17" SCALE: NTS



NOT USED

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

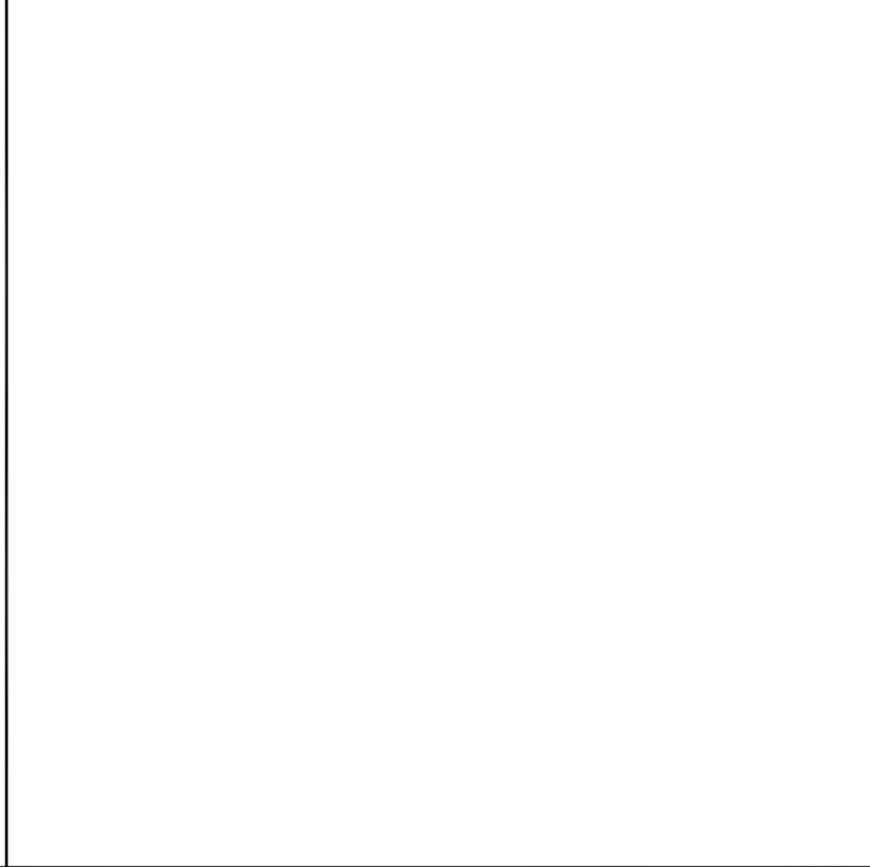
3



NOT USED

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

4



NOT USED

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

5

ISSUED FOR:
CLEARLAKE OAKS
16200 EAST HIGHWAY 20
CLEARLAKE OAKS,
CA 95423



AT&T SITE NO:	CCL05772
PROJECT NO:	11569670
DRAWN BY:	SD
CHECKED BY:	BM

REV	DATE	DESCRIPTION	BY
1	02/23/2022	90% ZD'S REV-REDESIGN	SP
0	09/30/2021	100% ZD'S FOR SUBMITTAL	BM
A	08/27/2021	90% ZDS FOR REVIEW	SD

LICENSOR:

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.

SHEET TITLE
DETAILS

SHEET NUMBER
D-8