CUP-R25-0005/ATC - Wooden Pole to Monopine
Exhibit A - Vicinity Map

Legend

Parcel Lines

0 250 500 1,000 Feet

RECEIVED

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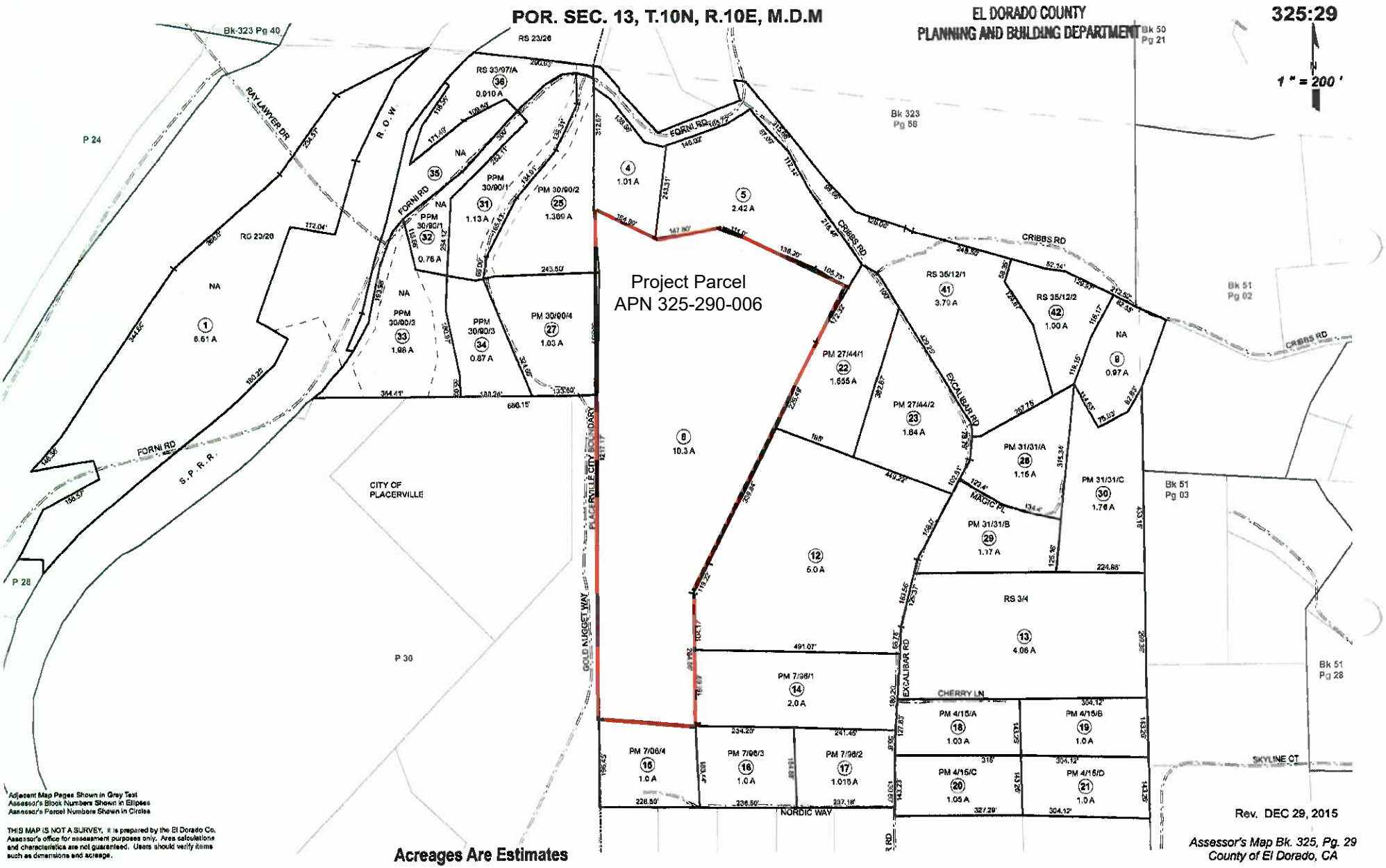
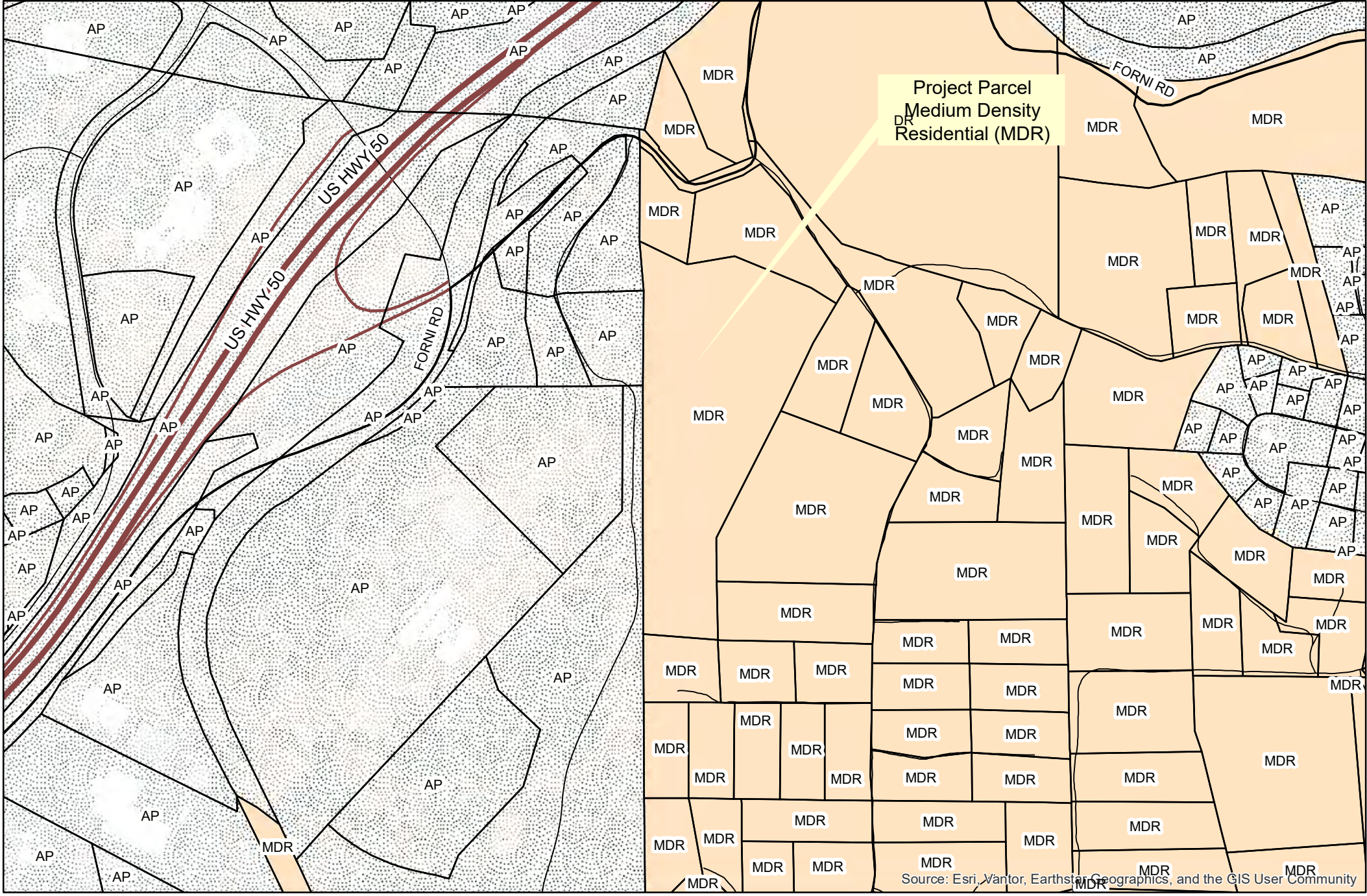
EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT



CUP-R25-0005/ATC - Wooden Pole to Monopine
Exhibit B - Assessor's Parcel Map



Legend

- Parcel Lines

Roads

- HIGHWAY
- MAJOR
- MINOR
- RAMP

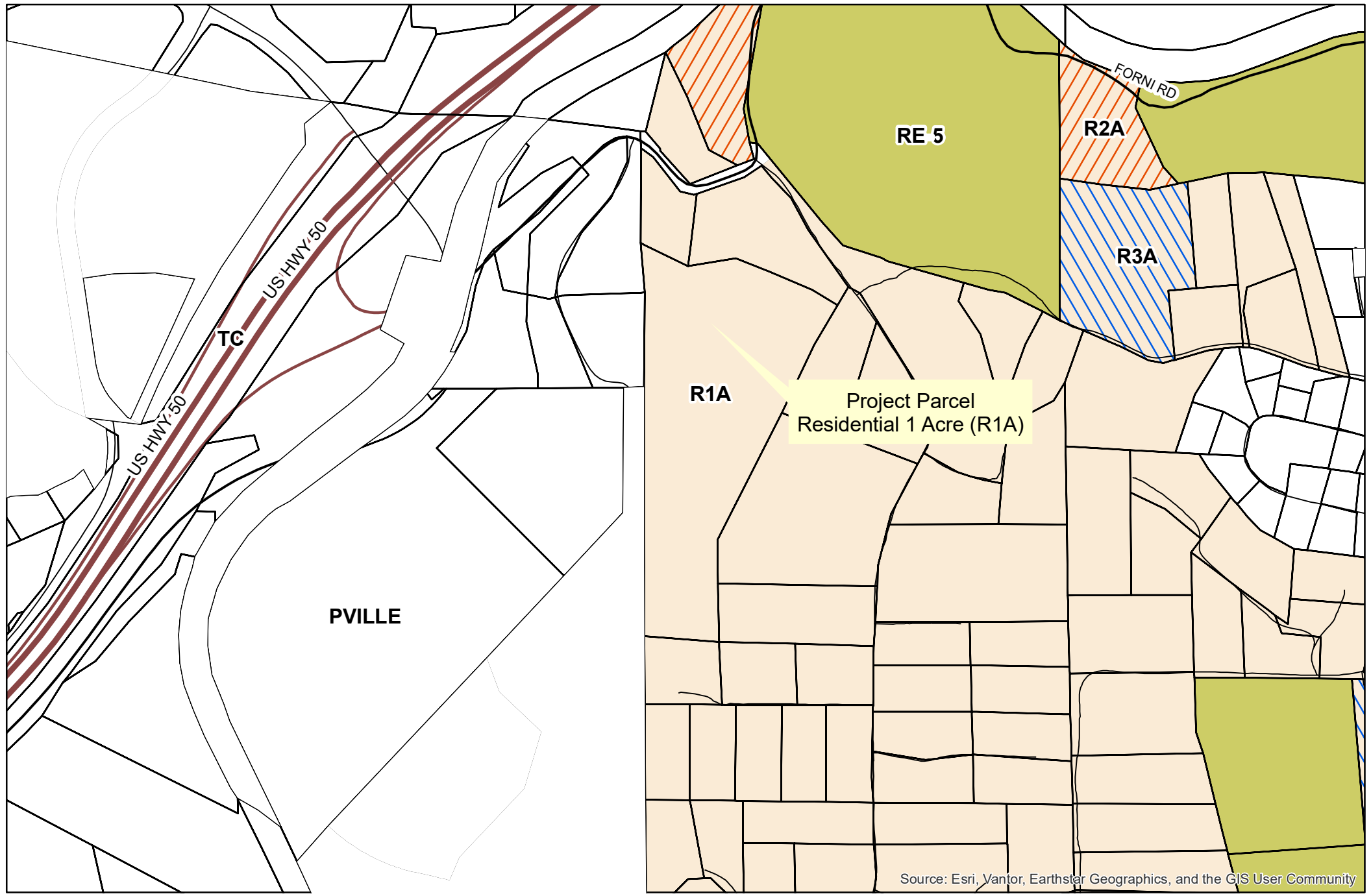
Adopted Plan

- Medium Density Residential

N W E S

0 250 500 1,000 Feet

CUP-R25-0005/ATC - Wooden Pole to Monopine
Exhibit C - Land Use Designation Map



Legend

- Parcel Lines

Roads

- HIGHWAY
- MAJOR
- MINOR
- RAMP

- R1A = Residential 1 Acre
- R2A = Residential 2 Acres
- R3A = Residential 3 Acres
- RE-5 = Residential Estate 5 Acres

N W E S

CUP-R25-0005/ATC - Wooden Pole to Monopine
Exhibit D - Zoning Designation Map

0 250 500 1,000 Feet

verizon

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY, PLACERVILLE, CA 95667
MDG LOCATION ID: 5000940687
PROJECT ID: 17120113

PROJECT DESCRIPTION

A (N) VERIZON WIRELESS UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF INSTALLING:

- REMOVING & REPLACING (E) WOOD MONOPOLE W/ (N) 68' TALL MONOPINE
- (E) EQUIPMENT SHELTER TO BE TAKEN OVER BY VERIZON WIRELESS
- REMOVING & REPLACING (E) SHELTER EQUIPMENT W/ (N) VERIZON WIRELESS SHELTER EQUIPMENT
- REMOVING & REPLACING (E) HVAC UNITS W/ (N) HVAC UNITS
- (N) 50KW DIESEL GENERATOR ON (N) 210 GALLON UL 142 RATED FUEL TANK
- (9) (N) ANTENNAS
- (6) (N) RRH UNITS @ ANTENNAS
- (2) (N) SURGE SUPPRESSORS @ ANTENNAS

PROJECT INFORMATION

SITE NAME:	PLACERVILLE SHERIFF
MDG LOCATION ID:	5000940687
COUNTY:	EL DORADO
JURISDICTION:	EL DORADO COUNTY
APN:	325-290-006-000
SITE ADDRESS:	3170 GOLD NUGGET WY PLACERVILLE, CA 95667
CURRENT ZONING:	–
CONSTRUCTION TYPE:	V-B
OCCUPANCY TYPE:	U, (UNMANNED COMMUNICATIONS FACILITY)
POWER:	PG&E
LATITUDE:	N 38° 43' 35.40" NAD 83 N 38.726500° NAD 83
LONGITUDE:	W 120° 49' 14.08" NAD 83 W 120.820577° NAD 83

PROPERTY OWNER:	AMERICAN TOWER CORPORATION 400 REGENCY FOREST DR CARY, NC 27518
APPLICANT:	VERIZON WIRELESS 2770 SHADELANDS DR, BLDG 11 WALNUT CREEK, CA 94598
SITE ACQUISITION COMPANY:	EPIC WIRELESS GROUP 605 COOLIDGE DRIVE, SUITE 100 FOLSOM, CA 95630
LEASING CONTACT:	ATTN: JASMINE LEARY JASMINE.LEARY@EPICWIRELESS.NET
ZONING CONTACT:	ATTN: JASMINE LEARY JASMINE.LEARY@EPICWIRELESS.NET
CONSTRUCTION CONTACT:	ATTN: PETE MANAS PETE.MANAS@EPICWIRELESS.NET

DESIGN CRITERIA

RISK CATEGORY: II
WIND EXPOSURE: C
SEISMIC SITE CLASS: D
S_{DS}: 0.428

ROOF LIVE LOAD: N/A
DESIGN WIND SPEED: 95 MPH
SEISMIC DESIGN CATEGORY: D
S_{D1}: N/A

FLOOR LIVE LOAD: N/A
GROUND ELEVATION: 2,038 FT
SEISMIC COMPONENT I_P: 1.0
S_S: 0.444

ALLOW SOIL BEARING: N/A
TOPOGRAPHIC CATEGORY: I
a_P: 1.0 R_P: 2.5
S_1: 0.208

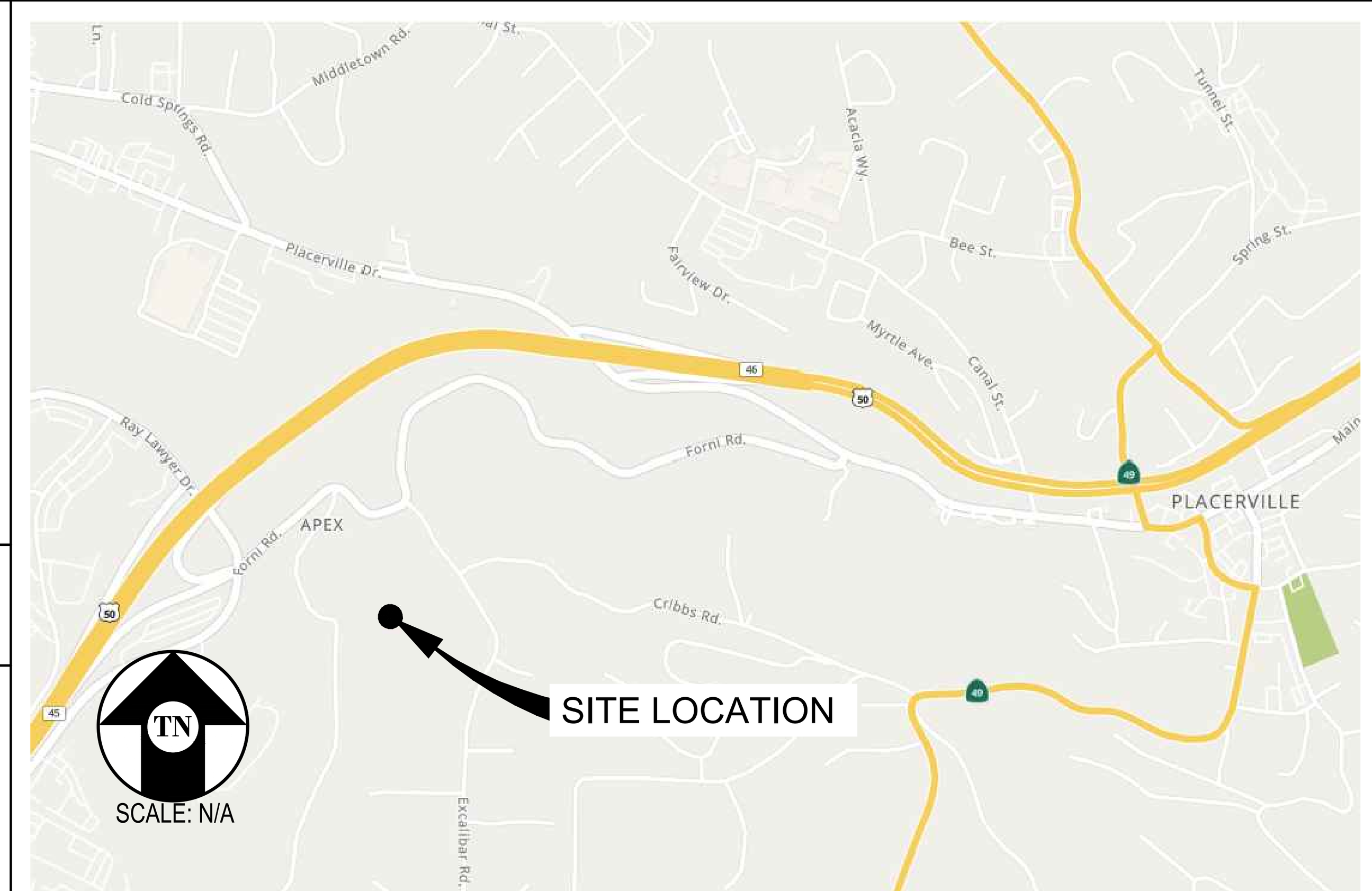
TESTS AND SPECIAL INSPECTIONS

STREAMLINE ENGINEERING & DESIGN, INC. DOES NOT REQUIRE ANY STRUCTURAL OBSERVATION OR SPECIAL INSPECTION OF ANY STRUCTURAL COMPONENT ABOVE & BEYOND WHAT IS LISTED BELOW UNLESS OTHERWISE REQUIRED BY JURISDICTION.

PROVIDE COMPLETE TESTING AND INSPECTIONS IN ACCORDANCE WITH THE CBC, CHAPTER 17 AS NOTED BELOW:

1. POST INSTALLED ANCHORS IN ACCORDANCE WITH CURRENT ICC REPORTS FOR THE SPECIFIED ANCHORAGES.

VICINITY MAP



DRIVING DIRECTIONS

FROM: 2770 SHADELANDS DR, BLDG 11, WALNUT CREEK, CA 94598
TO: 3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

1.	HEAD SOUTHEAST TOWARD SHADELANDS DR	361 FT
2.	TURN RIGHT ONTO SHADELANDS DR	0.3 MI
3.	TURN LEFT ONTO N WIGET LN	0.2 MI
4.	TURN RIGHT ONTO YGNACIO VALLEY RD	0.6 MI
5.	TURN RIGHT ONTO BANCROFT RD	0.7 MI
6.	USE THE LEFT 2 LANES TO TURN LEFT ONTO TREAT BLVD	1.0 MI
7.	TURN RIGHT ONTO BUSKIRK AVE	0.2 MI
8.	USE THE LEFT LANE TO TAKE THE RAMP ONTO I-680 N	420 FT
9.	MERGE ONTO I-680 N	1.9 MI
10.	KEEP LEFT AT THE FORK TO STAY ON I-680 N	5.9 MI
11.	KEEP LEFT AT THE FORK TO CONTINUE ON I-680	0.1 MI
12.	KEEP RIGHT AT THE FORK TO STAY ON I-680	14.2 MI
13.	USE ANY LANE TO TAKE EXIT 71A TO MERGE ONTO CA-12 E/I-80 E TOWARD I-80 E/SACRAMENTO	41.4 MI
14.	KEEP LEFT TO CONTINUE ON I-80BL E/US-50 E, FOLLOW SIGNS FOR SACRAMENTO/SOUTH LAKE TAHOE/CAPITAL CITY FREEWAY	5.3 MI
15.	KEEP LEFT TO CONTINUE ON US-50 E	39.5 MI
16.	TAKE EXIT 45 FOR RAY LAWYER DR	0.3 MI
17.	CONTINUE ONTO FORNI RD	0.1 MI
18.	TURN RIGHT ONTO GOLD NUGGET WAY	0.2 MI

END AT: 3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

ESTIMATED TIME: 1 HOUR 47 MINUTES ESTIMATED DISTANCE: 112 MILES

CODE COMPLIANCE

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

2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, VOLUME 1&2, TITLE 24 C.C.R.
(2021 INTERNATIONAL BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
ANSI/EIA-TIA-222-H

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

DISABLED ACCESS REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE, TITLE 24 PART 2, SECTION 11B-203.5

SHEET INDEX

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
2	02/25/26	PLANNING COMMS	T.T.
1	12/18/25	PLANNING COMMS	S.V.
4	09/30/25	CLIENT REV	S.V.
3	09/25/25	CLIENT REV	T.T.
2	02/12/24	CD 100%	S.D.
1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER
JAMES R. SPORE
S6336
STRUCTURAL
STATE OF CALIFORNIA

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.

ENGINEER:

Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1.1

PROJECT GENERAL NOTES

1. THIS FACILITY IS AN UNOCCUPIED WIRELESS TELECOMMUNICATION FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE.
3. THE SCOPE OF WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
4. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PAY FOR PERMIT FEES, AND TO OBTAIN SAID PERMITS AND TO COORDINATE INSPECTIONS.
6. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
7. CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.
8. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
9. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL ALSO COORDINATE ALL PORTIONS OF THE WORK UNDER THE CONTRACT; INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
10. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER.
11. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS AND RUBBISH. REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
13. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND ALL OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES.
14. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
15. THE CONTRACTOR SHALL PROVIDE A TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
16. SUFFICIENT MONUMENTATION WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSSIBLE FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONSHIP OF THE BOUNDARY LINES SHOWN HEREON AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.
17. THE CONTRACTOR TO VERIFY THE LATEST/CURRENT RF DESIGN.
18. WHERE APPLICABLE, CONTRACTOR SHALL PROVIDE SEPARATE PLANS, SPECIFICATIONS, FEES AND PERMITS FOR ANY REVISION TO ANY FIRE SPRINKLER AND/OR ALARM SYSTEM ON THE PREMISES AS MAY BE NEEDED TO COMPLETE THE WORK DEPICTED HEREIN, USING A LICENSED SUBCONTRACTOR FOR ALL SUCH WORK.

TRENCHING NOTES

1. CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.
2. VERIFY ALL TRENCHING REQUIREMENTS WITH SERVING UTILITIES.
3. RESTORE GRADE TO ORIGINAL CONDITION OR BETTER.
4. RETURN FILL TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM STANDARDS.
5. RESTORE CUT CONCRETE OR ASPHALT TO ORIGINAL CONDITION OR BETTER.

At all services & grounding trenches, provide " WARNING" tape at 12" below grade.

CALL
"CALL BEFORE YOU DIG"
811
NATIONWIDE UNDERGROUND SERVICE ALERT

CONSTRUCTION NOTES

1. EXISTING BUILDING CONSTRUCTION CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING OF MATERIALS. IF EXISTING CONDITIONS DO NOT ALLOW FOR DETAILS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER OF RECORD FOR RESOLUTION PRIOR TO PROCEEDING. CONTRACTOR SHALL EXPOSE AND REVIEW EXISTING CONDITIONS IN A TIMELY MANNER SUCH THAT ALTERNATE DESIGNS OR DETAILS, IF REQUIRED, MAY BE GENERATED WITHOUT DELAY TO THE PROJECT.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALTER, DAMAGE OR REMOVE ANY PART OF THE EXISTING STRUCTURE UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.
3. THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ADDITION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2022 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2022 CBC, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE PREPARED AND SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK.
4. ALL WORK AND MATERIALS SHOWN ARE NEW UNLESS INDICATED AS EXISTING (E).
5. IT MAY BE NECESSARY TO REMOVE ARCHITECTURAL FINISHES, PLUMBING PIPES AND FIXTURES, ELECTRICAL CONDUIT, FIXTURES, PANELS, BOXES, TELEPHONE OR FIRE ALARM WIRING AND FIXTURES OR OTHER NON-STRUCTURAL ITEMS TO INSTALL STRUCTURAL WORK AND MATERIALS SHOWN ON THESE DRAWINGS. SUCH ITEMS SHALL BE REMOVED, REPAIRED AND/OR REPLACED TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE.
6. ALL WEATHER PROOFING. INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED REPLACED AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF.
7. ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, ANCHOR TYPES, OR DETAILING INDICATED IN THESE DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ORDERING MATERIALS. SUCH REVIEW SHALL BE BILLED ON A TIME AND MATERIALS BASIS TO THE CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
8. CONTRACTOR SHALL ENSURE ALL ROOF AREAS HAVE POSITIVE SLOPE TO ALL EXISTING ROOF DRAINS. PROVIDE ADDITIONAL CRICKETS OR BUILD UP ROOFING AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AROUND ALL NEW CONSTRUCTION INCLUDING ANY CURBS, SLEEPERS, SUPPORT BASES, ETC.

STRUCTURAL STEEL NOTES

1. ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2016 AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2022 CBC.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES UNLESS OTHERWISE NOTED AND SHALL CONFORM TO AISC & AWS D1.4. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
5. HIGH STRENGTH BOLTS SHALL BE GALVANIZED ASTM F3125/F3125M GRADE A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
6. HIGH STRENGTH BOLT NUTS SHALL BE ASTM A563/A563M AND WASHERS SHALL BE ASTM F436/ F436M.
7. THREADED RODS SHALL BE SAE J429, GRADE 2 U.O.N.
8. ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HOT DIPPED GALVANIZED WASHERS.
9. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED.
10. ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
11. AT ALL WEB STIFFENER PLATES LEAVE $\frac{3}{4}$"ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.
12. U-BOLTS AT ANTENNA & RRU MOUNT TO BE GALVANIZED SAE J429, GRADE 2 WITH J995 NUTS U.O.N.
13. ALL STRUT MEMBERS USED IN EXTERIOR APPLICATIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 OR ASTM A153.
14. ALL STAINLESS STEEL BOLTED CONNECTIONS SHALL BE ASTM F593-17 ALLOY GROUP 1 OR 2 AND STAINLESS STEEL NUTS SHALL BE ASTM F594-09 (2015).

CONCRETE NOTES

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19. CONCRETE MIX DESIGN SHALL BE REVIEWED BY AN INDEPENDENT TESTING LABORATORY AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.
2. CONTRACTOR SHALL VERIFY SITE CONDITIONS & ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES FOR RESOLUTION PRIOR TO PROCEEDING.
3. ALL CONCRETE SHALL BE A MINIMUM 5 SACK MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
4. CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
5. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33.
6. ALL REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 UNLESS OTHERWISE NOTED. SEE PLAN FOR SIZE AND PLACEMENT.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
8. REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".
9. MINIMUM LAP SPLICE SHALL BE 56 BAR DIAMETERS UNLESS OTHERWISE NOTED.
10. MINIMUM BEND DIAMETER SHALL BE 6 BAR DIAMETERS UNLESS OTHERWISE NOTED.
11. MINIMUM REINFORCING COVERAGE IS 3" UNLESS OTHERWISE NOTED.
12. CONCRETE SHALL BE PLACED AGAINST FIRM UNDISTURBED NON EXPANSIVE SOIL AT DEPTH SHOWN. WHERE OTHER CONDITIONS ARE ENCOUNTERED DURING EXCAVATION THE ENGINEER SHALL BE NOTIFIED AND REMEDIAL MEASURES PRESCRIBED PRIOR TO PROCEEDING WITH WORK.
13. BOTTOM OF ALL FOOTING TRENCHES SHALL BE CLEAN AND LEVEL. REMOVE ALL DEBRIS BEFORE PLACING ANY CONCRETE.
14. ALL ANCHOR BOLTS & THREADED ROD SHALL BE ASTM F1554, GR.36 MINIMUM UNLESS OTHERWISE NOTED, NEW, & WITHOUT SIGNIFICANT RUST.
15. A $\frac{3}{4}$" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE NOTED.
16. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.
17. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MOTORIZED VIBRATORY MEANS AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS.

EXPANSION & EPOXY ANCHORS

1. EXPANSION AND EPOXY ANCHORS SHALL BE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE (CBC).
2. ALL ANCHORS PROVIDED SHALL BE INCLUDED IN EVALUATION REPORTS OF THE INTERNATIONAL CODE COUNCIL (ICC), AND SHALL BE EVALUATED FOR 2021 IBC MINIMUM REQUIREMENTS IN THE ICC REPORT
3. CONCRETE EXPANSION ANCHORS SHALL BE KWIK BOLT TZ2 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-4266 OR APPROVED EQUIVALENT.
4. CMU EXPANSION ANCHORS SHALL BE KWIK BOLT TZ2 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-4561 OR APPROVED EQUIVALENT. ANCHORS SHALL BE INSTALLED A MINIMUM OF 1$\frac{3}{8}$" FROM ANY VERTICAL MORTAR JOINT TYPICAL. ANCHORS TO BE SPACED 8 INCHES ON CENTER MINIMUM AND LIMITED TO ONE ANCHOR PER CELL.
5. CONCRETE ADHESIVE EPOXY ANCHORS SHALL BE HIT RE-500 V3 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-3814 OR APPROVED EQUIVALENT.
6. GROUT FILLED CMU ADHESIVE EPOXY ANCHORS SHALL BE HIT-HY 200 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-3963 OR APPROVED EQUIVALENT.
7. INSTALL EXPANSION AND EPOXY ANCHORS WITH SPECIAL INSPECTION IN ACCORDANCE WITH THE 2022 CBC, TABLE 1705.3, AND ALL REQUIREMENTS OF THE MANUFACTURER, THE MANUFACTURER'S ICC APPROVAL AND THESE DRAWINGS.
8. EXPANSION ANCHORS SHALL BE 304/316 STAINLESS STEEL U.O.N. EPOXY ANCHOR THREADED ROD SHALL BE ASTM F593 CW1 (316) ($\frac{1}{4}$" TO $\frac{5}{8}$") OR F593 CW2 (316) ($\frac{3}{4}$" TO 1$\frac{1}{2}$") STAINLESS STEEL U.O.N.
9. LOCATE AND AVOID REINFORCEMENT AND OTHER EMBEDDED ITEMS WHEN INSTALLING ANCHORS, TYPICAL. SEE CONCRETE CORE DRILLING NOTES FOR ADDITIONAL INFORMATION.
10. THE SPECIAL INSPECTOR MUST MAKE PERIODIC INSPECTIONS DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE AND DIMENSIONS, CONCRETE MEMBER THICKNESS, ANCHOR SPACING, EDGE DISTANCES, TIGHTENING TORQUE, HOLE DIAMETER, DEPTH AND CLEANLINESS, ANCHOR EMBEDMENT AND ADHERENCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE NOTE 11 BELOW FOR FREQUENCY OF INSPECTIONS.
11. 50% OF ALL ANCHORS, INCLUDING ALTERNATE BOLTS IN A GROUP OF ANCHORS, SHALL BE INSPECTED PER NOTE 10 ABOVE AND TORQUE TESTED PER THE ICC REPORT TEST VALUES NOTED BELOW:

KB TZ2:

CONCRETE TORQUE TEST VALUES:
$\frac{3}{8}$"=30 FT LB $\frac{1}{2}$"=40 FT LB $\frac{5}{8}$"=60 FT LB $\frac{3}{4}$"=125 FT LB

CMU TORQUE TEST VALUES:
$\frac{3}{8}$"=15 FT LB $\frac{1}{2}$"=25 FT LB $\frac{5}{8}$"=35 FT LB $\frac{3}{4}$"=50 FT LB

EPOXY ANCHOR:

CONCRETE TORQUE TEST VALUES:
$\frac{1}{2}$"=30 FT LB
(CONCRETE TENSION TEST VALUES TO BE DETERMINED AS NEEDED. A RFI WILL BE ISSUED IF NEEDED DURING CONSTRUCTION TO ESTABLISH THE REQUIRED TENSION TEST VALUES)

CONCRETE CORE/DRILLING NOTES

1. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED OR POST-TENSIONED REINFORCED CONCRETE (MILD REINFORCED), USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE (E) REINFORCING BARS. WHEN INSTALLING ANCHORS INTO (E) PRE-STRESSED OR POST-TENSIONED CONCRETE LOCATE THE PRE-STRESSED OR POST-TENSIONED TENDONS BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, AT POINT OF PENETRATION, PRIOR TO INSTALLATION. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
2. WHEN CORING EXISTING REINFORCED CONCRETE OF ANY CONSTRUCTION TYPE (PRE-STRESSED, POST-TENSIONED OR MILD REINFORCED), LOCATE THE EXISTING REINFORCING BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, PRIOR TO CORING. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING ANY REINFORCING DURING CORING. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE CORE. THE MAXIMUM SIZE OF ANY CORE IS TO BE 6" DIAMETER AND THE MINIMUM SPACING BETWEEN CORES IS TO BE TWICE THE CORE DIAMETER (I.E. 12" SPACING FOR A 6" DIAMETER CORE).
3. INSPECTOR IS TO BE PRESENT DURING ALL CORE DRILLING OPERATIONS TO VERIFY THAT NO REINFORCING CABLES, TENDONS, OR REBAR HAVE BEEN CUT. (SEE NOTE 5 BELOW)
4. THE INSPECTOR SHALL SUBMIT A WRITTEN REPORT TO THE OWNER.
5. THE INSPECTIONS INDICATED IN NOTES 3 AND 4 ABOVE ARE NOT REQUIRED FOR A CONCRETE FILL OVER METAL DECK APPLICATION WHERE INDICATED ON THE CONSTRUCTION DRAWINGS.

FRAMING NOTES

1. ALL JOINTS AND PENETRATIONS SHALL BE CAULKED AND SEALED.
2. ALL 2X OR 4X FRAMING LUMBER SHALL BE DOUGLAS FIR #2 OR BTR, 6X DOUGLAS FIR # 1 OR BTR UNLESS OTHERWISE NOTED.
3. ALL EXTERIOR USE LUMBER SHALL BE PRESSURE TREATED W/ FASTENERS HDG & METAL CONNECTORS G135 OR BETTER AS REQUIRED FOR CORROSION RESISTANCE TO THE PRESERVATIVE TYPE USED.
4. ALL STRUCTURAL CONNECTORS SHALL BE AS SPECIFIED OR AN EQUIVALENT.
5. NAILING SHALL CONFORM WITH THE REQUIREMENTS OF THE 2022 CBC UNLESS OTHERWISE NOTED. DRAWING SPECIFIC CALLOUTS SUPERCEDE CODE NAILING REQUIREMENTS
6. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS $\frac{1}{16}$".
7. HOLES FOR LAG SCREWS ø$\frac{3}{8}$" OR GREATER SHALL BE BORED AS FOLLOWS:
   - A. THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
   - B. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 75% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION.
   - C. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. PROVIDE LIQUID SOAP AS REQUIRED TO LUBRICATE LAG SCREWS DURING INSTALLATION.
8. LAG SCREWS SHALL BE GALVANIZED ASTM A307 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.

HVAC GENERAL NOTES

1. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE LATEST ASHRAE AND INDUSTRIAL STANDARDS.
2. ALL HVAC WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES AND FEDERAL CODES HAVING JURISDICTION OVER THE CONSTRUCTION.
3. CONTRACTOR SHALL EXAMINE THE PROJECT SITE AND DISCUSS GENERAL REQUIREMENTS OF BUILDING AND WORK PERFORMANCE WITH THE PROJECT MANAGER. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHERS ON THE PROJECT. CONTRACTOR SHALL CONFIRM EXISTING CONDITIONS AND PROVIDE ALL LABOR AND MATERIALS TO MAKE A WORKABLE AND USEABLE SYSTEM.
4. CONTRACTOR IS TO REPORT TO PROJECT MANAGER ANY OBSERVATIONS OR CONDITIONS WHICH ARE DISCOVERED IN THE BUILDING WHICH WOULD PREVENT THE FULLEST USE OF THE HVAC SYSTEM.
5. IT IS NECESSARY TO USE SEAMLESS COPPER PIPES AND IT IS DESIRABLE THAT THE AMOUNT OF RESIDUAL OIL IS LESS THAN 40 MG/10M. DO NOT USE COPPER PIPES HAVING A COLLAPSED, DEFORMED OR DISCOLORED PORTION (ESPECIALLY ON THE INTERIOR SURFACE). OTHERWISE, THE EXPANSION VALUE OR CAPILLARY TUBE MAY BECOME BLOCKED WITH CONTAMINANTS.
6. CONTRACTOR SHALL ARRANGE AND PAY FOR ALL FEES, PERMITS, AND INSPECTIONS CONCERNING THE WORK.
7. ISOLATE ALL HVAC UNITS/FANS AND EQUIPMENT FROM STRUCTURE WITH APPROVED ISOLATION MOUNTS.
8. ALL WEATHER EXPOSED EQUIPMENT, DUCTS, ETC., SHALL BE COMPLETELY WEATHERPROOFED. PROVIDE LEAD FLASHINGS FOR PIPE PENETRATIONS THROUGH ROOF. PATCH ROOFING AT CURBS AND PENETRATIONS.
9. SEER RATING AND HEATING COMBUSTION EFFICIENCY RATING OF EACH HVAC UNIT SHALL COMPLY WITH STATE REQUIREMENTS.
10. INSTALL CONDENSATE DRAIN LINES AWAY FROM ALL ELECTRICAL, RADIO, AND TELEPHONE EQUIPMENT.
12. WHEN CHARGING THE REFRIGERANT, TAKE INTO ACCOUNT THE SLIGHT CHANGE IN THE COMPOSITION OF THE GAS AND LIQUID PHASES, AND ALWAYS CHARGE FROM THE LIQUID PHASE SIDE WHOSE COMPOSITION IS STABLE.
13. ALL HVAC EQUIPMENT SHALL BE SEISMICALLY BRACED PER LOCAL REQUIREMENTS.

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
2 (triangle)	02/25/26	PLANNING COMMS	T.T.
1 (triangle)	12/18/25	PLANNING COMMS	S.V.
4	09/30/25	CLIENT REV	S.V.
3	09/25/25	CLIENT REV	T.T.
2	02/12/24	CD 100%	S.D.
1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER
JAMES R. SPORE
S6336
STRUCTURAL
STATE OF CALIFORNIA

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.

ENGINEER:

Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

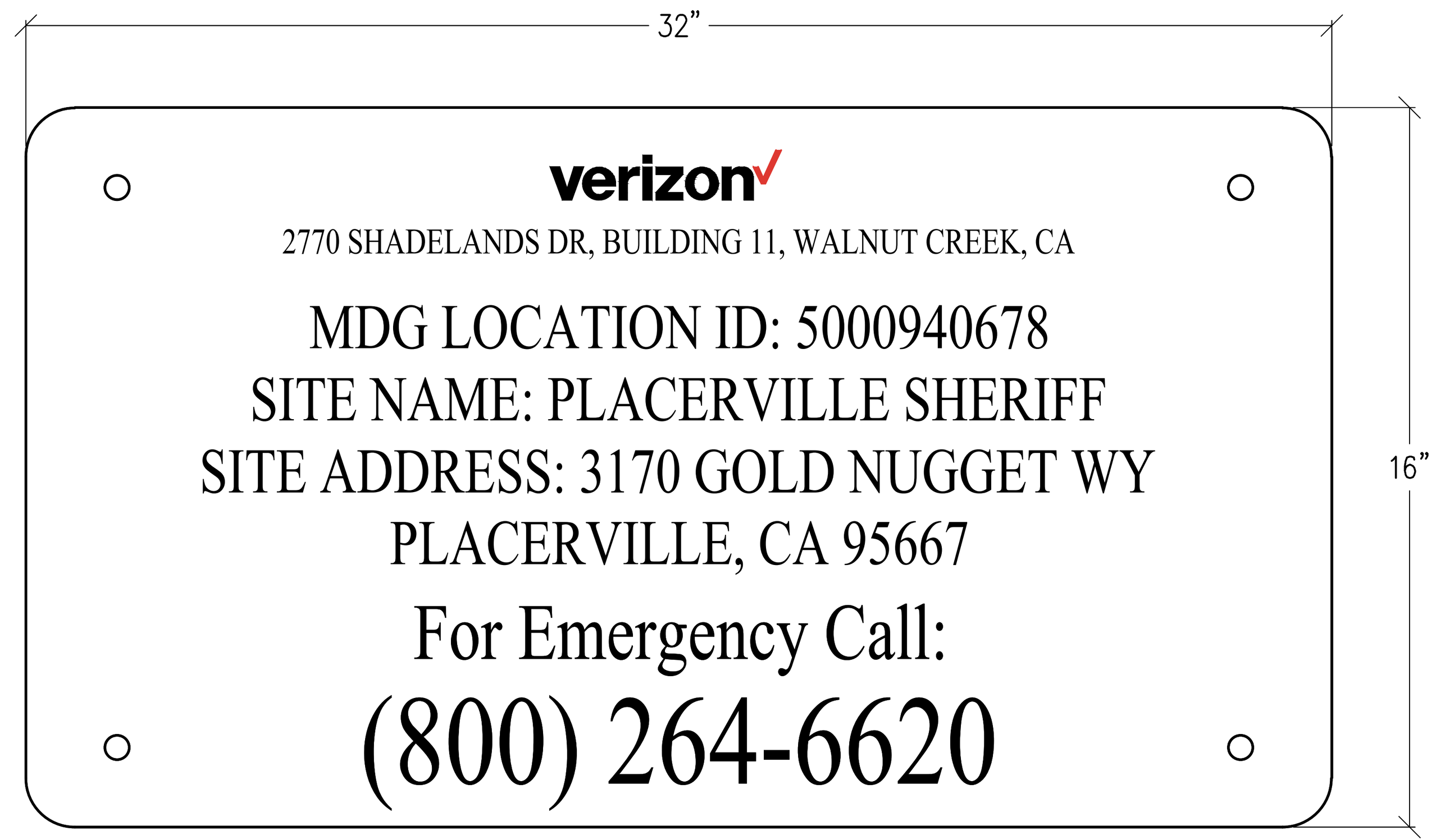
GENERAL NOTES

SHEET NUMBER:

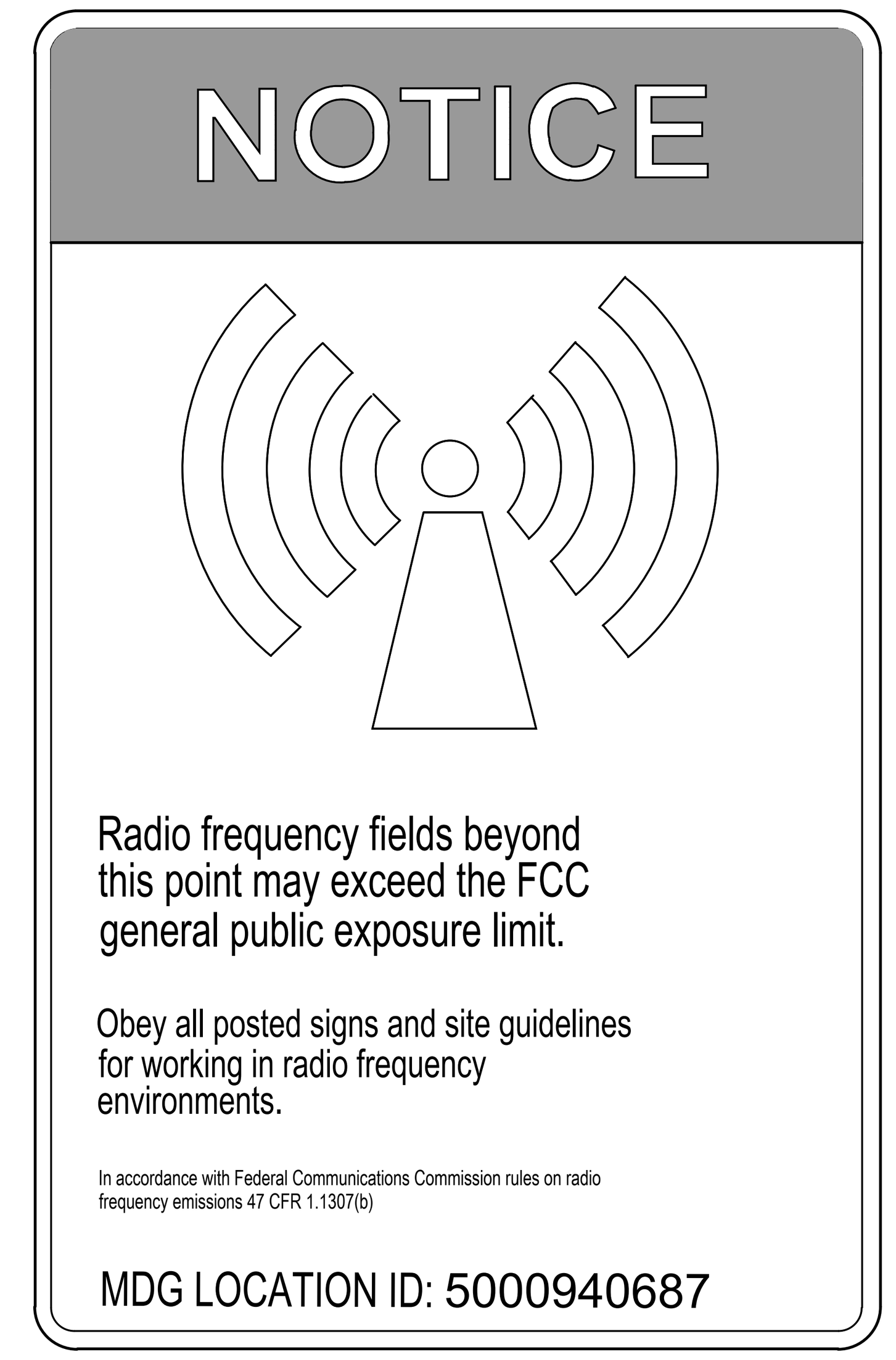
T-1.2

SIGNAGE AND STRIPING INFORMATION

1. THE FOLLOWING INFORMATION IS A GUIDELINE WITH RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATION SHOULD BE IN CONFLICT WITH ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY VERIZON WIRELESS IS $1mWcm^2$ AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY VERIZON WIRELESS IS $5mWcm^2$
3. IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR ROOF LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.
4. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR CANNOT BE LOCKED OR THERE IS AN EXISTING FIRE EGRESS), THEN BOTH BARRICADES AND STRIPING WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
5. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS NOT EXCEEDED AND THE AREA IS NOT PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR IS LOCKED), THEN JUST STRIPING OUT TO THE PUBLIC LIMIT WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH STRIPING.
6. ALL TRANSMIT ANTENNAS REQUIRE A (3) THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN WILL BE PROVIDED TO THE CONTRACTOR BY THE VERIZON WIRELESS CONSTRUCTION MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES IN PLAIN SIGHT AND THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNAS THEMSELVES OR ON THE OUTSIDE OF THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS WILL HAVE VERIZON WIRELESS'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER WILL BE PROVIDED TO THE CONTRACTOR BY THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
7. PHOTOS OF ALL STRIPING, BARRICADES, AND SIGNAGE WILL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE AND WILL BE TURNED INTO THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE WITH FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS HATCH PATTERN. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO THAT THEY DO NOT BLOCK OR INTERFERE WITH THE OPERATION OF THE SITE AND SHALL BE PAINTED WITH FADE RESISTANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED AND SHALL PROVIDE THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADE.
8. ALL REQUIRED SIGNAGE WILL BE INSTALLED AS NEEDED AND FIELD VERIFIED.



1 TYPICAL ADDRESS SIGN DETAIL (@ LEASE AREA ACCESS DOOR)



2 TYPICAL CAUTION SIGN

NOTE: SIGN TO BE PERMANENTLY MOUNTED AT ANTENNA LOCATIONS.

3 TYPICAL HAZARD SIGN

4 TYPICAL HAZARD SIGN

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
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MDG LOCATION ID:	5000940687
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DRAWN BY:	C. COLSTON
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Licensee:

REGISTERED PROFESSIONAL ENGINEER JAMES R. SPORE S6336 STRUCTURAL STATE OF CALIFORNIA

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ENGINEER:

Streamline Engineering and Design, Inc.

3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

SIGNAGE DETAILS

SHEET NUMBER:

T-1.3

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

Verizon Wireless

Project Name: Placerville Sheriff

Project Site Location: 3170 Gold Nugget Way
Placerville, CA 95667
El Dorado County

Date of Observation: 11–01–23

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

Type of Antenna Mount: Proposed Monopine

Coordinates (Tower)(NAD83)
Latitude: N 38° 43' xxx" N 38.xxxxxxx°
Longitude: W 120° 49' xxx" W 121.xxxxxx°

ELEVATION of Ground at Structure (NAVD88) xxxxx' 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

Lease Area Description

All that certain lease area being a portion of that certain parcel of land as described in that certain document filed in Book 1810 of Deeds, Page 164 Official Records of El Dorado County, California, also being a portion of the East half of the Northeast quarter Section 13, Township 10 North, Range 10 East M.D.B.M., being more particularly described as follows:

Commencing at a 1–1/4" C.I.P. set for the most Northerly corner of Parcel 1 as is shown on that certain Parcel Map filed for record at Book 27 of Parcel Maps at Page 44, Official Records of El Dorado County, from which a 3/4" C.I.P. set at the most Westerly corner of the above referenced Parcel 1 bears South 27°43'59" West 457.18 feet; thence from said Point of Commencement South xx feet to the True Point of Beginning; thence from said point of beginning North XXXX feet to the true point of beginning.

Together with an easement for utility purposes six feet in width the centerline of which is described as follows: Beginning at a point which bears North XXX feet from the Northwest corner of the above described lease area; thence from said point of beginning North XXX feet more of less to an existing utility service connection location.

Also together with an easement for utility purposes from the above described lease area to the cellular tower located in close proximity thereto and as necessary for the placement of cellular antennas and appurtenance thereon.

Also together with an easement for ingress and egress fifteen feet in width from the above described lease area, over and across an existing traveled way, to the public right of way.

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. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED EXCEPT AS SHOWN ON THIS PLAN. NO PROPERTY MONUMENTS WERE SET.

DATE OF SURVEY: 11–01–23

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, R.C.E. 14803

LOCATED IN THE COUNTY OF EL DORADO, STATE OF CALIFORNIA

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL.

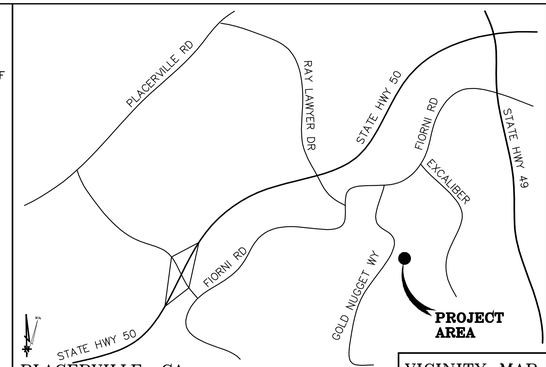
N.G.V.D. 1929 CORRECTION: SUBTRACT XXX' FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: N/A

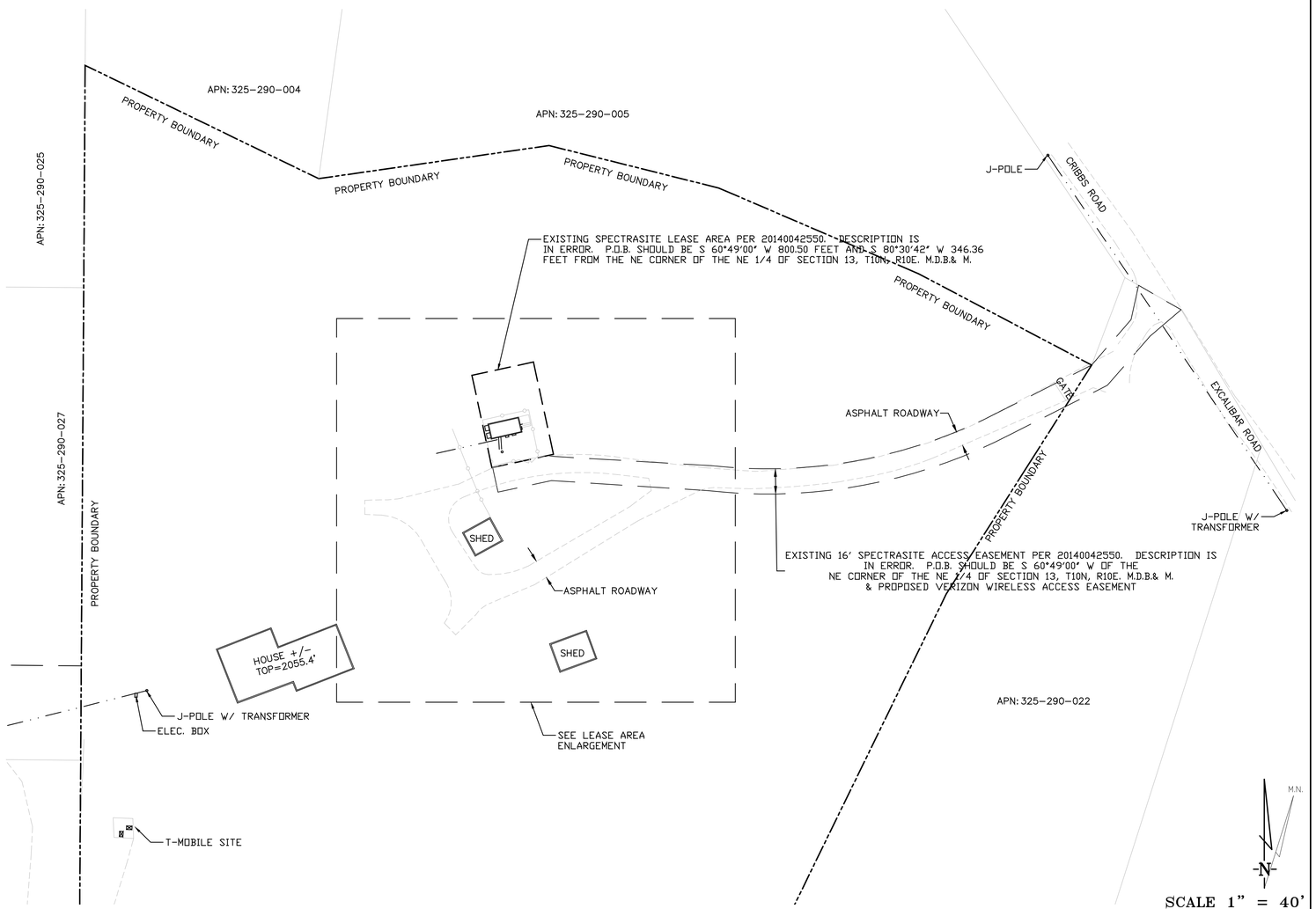
CONTRACTOR IS RESPONSIBLE TO VERIFY LEASE AREA PRIOR TO CONSTRUCTION.

ASSESSOR'S PARCEL NUMBER: 325–290–006–000

OWNER(S): EILEEN E. MC CALLUM
3170 GOLD NUGGET WAY
PLACERVILLE, CA 95667

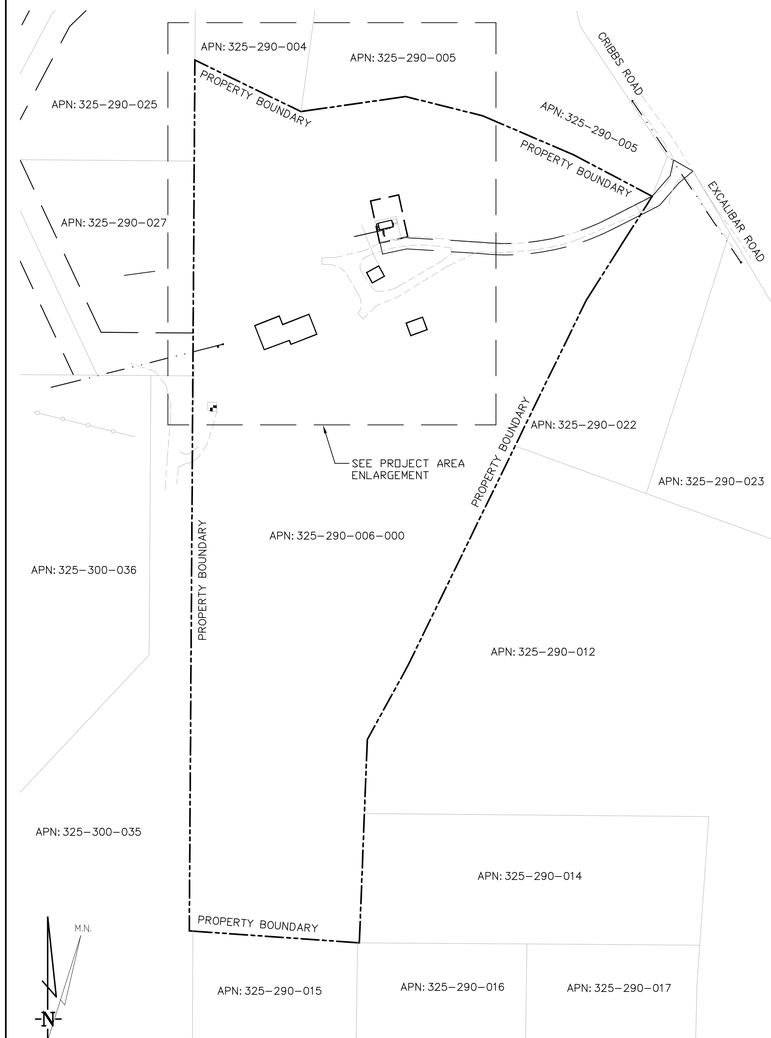


PLACERVILLE, CA — VICINITY MAP



SCALE 1" = 40'

PROJECT AREA ENLARGEMENT



SCALE 1" = 100'

OVERALL PROJECT AREA

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE/VN		
OPS		
EE/OUT		

Surveyor
GEIL ENGINEERING
ENGINEERING * SURVEYING * PLANNING
1226 HIGH STREET
AUBURN, CALIFORNIA 95603
phone: (530) 885–0426
fax: (530) 823–1309

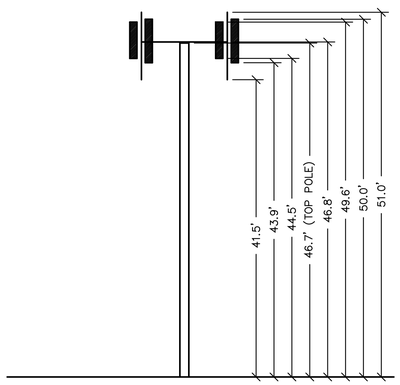
verizon

PLACERVILLE SHERIFF RELO
3170 GOLD NUGGET WAY
PLACERVILLE, CA 95667

PLOT PLAN AND SITE TOPOGRAPHY

REVISIONS		
REV	11–02–23	DRAWING SUBMITTAL
REV	NR	
REV		
REV		
REV		
REV		

Sheet
C–1



POLE DIAGRAM

EXISTING SPECTRASITE LEASE AREA PER 20140042550. DESCRIPTION IS IN ERROR. P.O.B. SHOULD BE S 60°49'00" W 800.50 FEET AND S 80°30'42" W 346.36 FEET FROM THE NE CORNER OF THE NE 1/4 OF SECTION 13, T10N, R10E. M.D.B.& M.

40.00'

60.00'

FENCELINE

ABANDONED NEXTEL SHELTER
PROPOSED VERIZON WIRELESS LEASE AREA

CONCRETE APRON

APPLETON

ELEC. METER

EL.2035.82'

EL.2036.82'

AC

AC

CONDUIT TO COW SITE

TCF

EL.2038.26'

EL.2037.68'

WOOD MONOPOLE
SEE TOWER DIAGRAM

GATE

EL.2038.81'

ASPHALT ROADWAY

EXISTING 16' SPECTRASITE ACCESS EASEMENT PER 20140042550. DESCRIPTION IS IN ERROR. P.O.B. SHOULD BE S 60°49'00" W OF THE NE CORNER OF THE NE 1/4 OF SECTION 13, T10N, R10E. M.D.B.& M. & PROPOSED VERIZON WIRELESS ACCESS EASEMENT

GATE

SHED
TOP=2047.4'

ASPHALT ROADWAY

HOUSE
TOP=2055.4'

SHED
TOP=2042.7'

M.N.

N

SCALE 1" = 10'

0 5 10 20 30 50

LEASE AREA ENLARGEMENT

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. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED EXCEPT AS SHOWN ON THIS PLAN. NO PROPERTY MONUMENTS WERE SET.

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

Surveyor
GEIL ENGINEERING
ENGINEERING • SURVEYING • PLANNING
1228 HIGH STREET
AUBURN, CALIFORNIA 95603
phone: (530) 885-0428
fax: (530) 823-1309

verizon

PLACERVILLE SHERIFF RELOCATION
3170 GOLD NUGGET WAY
PLACERVILLE, CA 95667

PLOT PLAN AND
SITE TOPOGRAPHY

Sheet
C-2

EL DORADO COUNTY FIRE COMMENTS:

1. FIRE APPARATUS ACCESS – APPROVED FIRE APPARATUS ACCESS SHALL REMAIN UNOBSTRUCTED AT ALL TIMES. ALL APPROVED GATES SHALL BE EQUIPPED WITH FIRE DEPARTMENT –APPROVED EMERGENCY ACCESS (KNOX PADLOCK, OR OTHER FIRE DEPARTMENT REQUIRED DEVICES IF AUTOMATED).

2. PREMISES IDENTIFICATION – APPROVED ADDRESS IDENTIFICATION AND ON-SITE DIRECTIONAL SIGNAGE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH FIRE DEPARTMENT STANDARDS PRIOR TO OCCUPANCY.

3. EMERGENCY CONTACT SIGNAGE – PERMANENT EMERGENCY CONTACT SIGNAGE SHALL BE INSTALLED AT THE PRIMARY SITE ENTRANCE AND AT ANY ADDITIONAL LOCATIONS AS REQUIRED BY THE FIRE DEPARTMENT. AT A MINIMUM, THE SIGNAGE SHALL INCLUDE THE SITE NAME, PHYSICAL ADDRESS, AND A 24-HOUR EMERGENCY CONTACT NAME AND PHONE NUMBER. SIGNAGE SHALL BE APPROVED BY THE FIRE DEPARTMENT AND INSTALLED PRIOR TO COMMENCEMENT OF OPERATIONS.

4. VEGETATION MANAGEMENT / DEFENSIBLE SPACE – DEFENSIBLE SPACE AND VEGETATION MANAGEMENT SHALL BE ESTABLISHED AND CONTINUOUSLY MAINTAINED IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL FIRE REGULATIONS. FAILURE TO MAINTAIN DEFENSIBLE SPACE SHALL CONSTITUTE A VIOLATION OF THE CONDITIONAL USE PERMIT

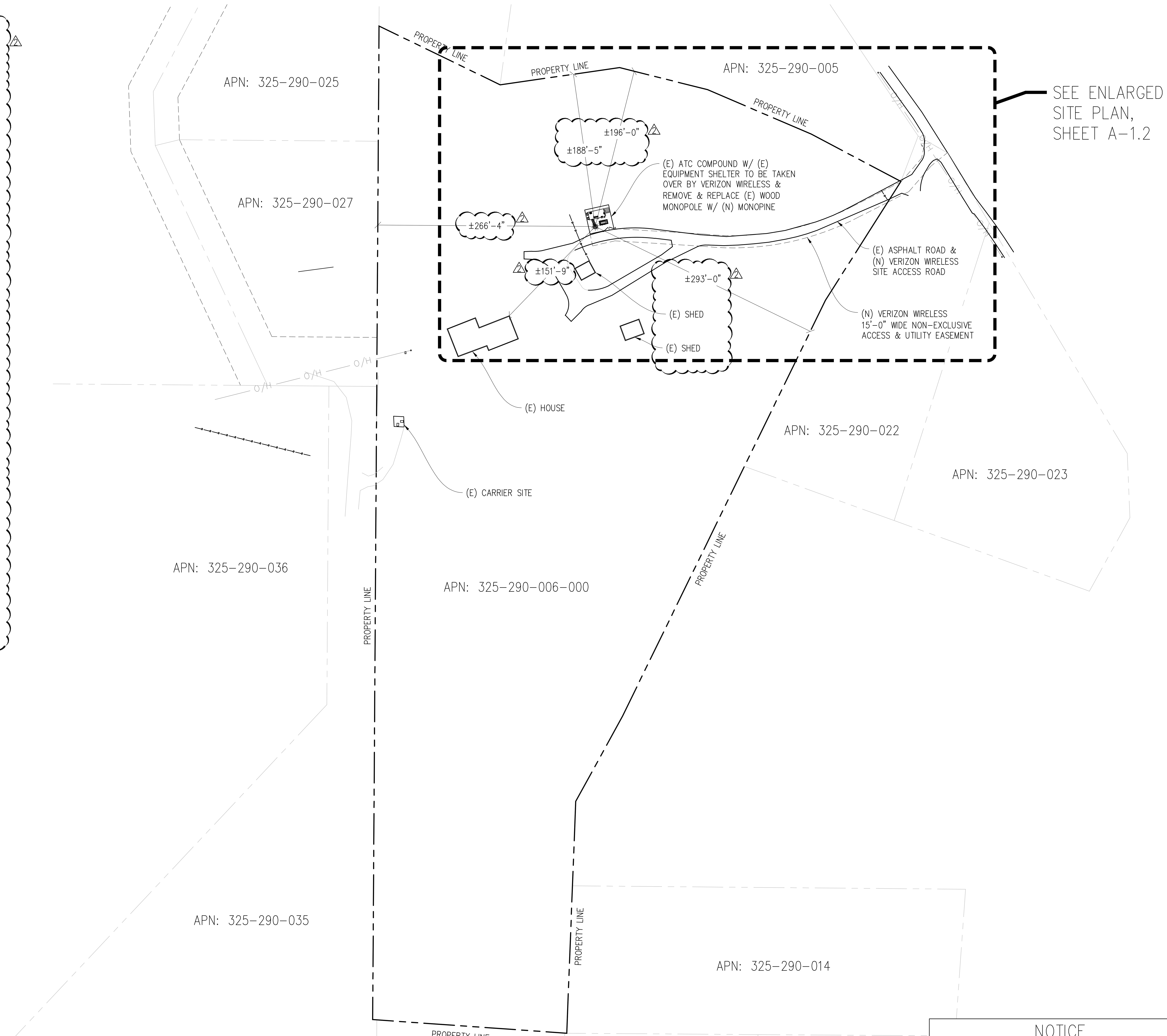
5. FIRE PROTECTION SYSTEMS – FIRE SPRINKLER SYSTEMS, FIRE ALARM SYSTEMS, AND OTHER REQUIRED FIRE PROTECTION FEATURES SHALL BE PROVIDED AS DETERMINED DURING BUILDING PERMIT REVIEW BASED ON FINAL BUILDING SIZE, USE, AND CONSTRUCTION TYPE. ALL REQUIRED SYSTEMS SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO OCCUPANCY.

6. DIESEL GENERATOR AND FUEL STORAGE – ANY DIESEL-POWERED GENERATOR ASSOCIATED WITH THE PROJECT SHALL COMPLY WITH APPLICABLE FIRE CODE REQUIREMENTS FOR COMBUSTIBLE LIQUIDS. FUEL TANKS, PIPING, DAY TANKS, AND OVERFLOW OR SECONDARY SPILL CONTAINMENT SYSTEMS SHALL BE REVIEWED AND APPROVED BY THE FIRE DEPARTMENT AND SHALL BE SUBJECT TO FINAL INSPECTION AND APPROVAL BY THE FIRE DEPARTMENT PRIOR TO OPERATION.

7. HAZARDOUS MATERIALS – THE STORAGE, USE, OR HANDLING OF COMBUSTIBLE OR HAZARDOUS MATERIALS SHALL COMPLY WITH FIRE CODE REQUIREMENTS. ADDITIONAL PERMITS OR OPERATIONAL RESTRICTIONS MAY BE REQUIRED BY THE FIRE DEPARTMENT.

8. FIRE LANES AND PARKING RESTRICTIONS – FIRE APPARATUS ACCESS ROADS AND FIRE LANES SHALL BE MAINTAINED CLEAR AND UNOBSTRUCTED AT ALL TIMES. FIRE LANE MARKING AND SIGNAGE SHALL BE INSTALLED WHERE REQUIRED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY.

9. ENFORCEMENT – FAILURE TO COMPLY WITH FIRE DEPARTMENT CONDITIONS SHALL CONSTITUTE A VIOLATION OF THE CONDITIONAL USE PERMIT AND MAY RESULT IN ENFORCEMENT ACTION, SUSPENSION, OR REVOCATION OF THE PERMIT.



OVERALL SITE PLAN
1"=60'-0"

NOTICE

NEW MONOPINE TO BE ANALYZED BY OTHERS. STREAMLINE ENGINEERING & DESIGN INC. IS NOT RESPONSIBLE FOR THE EVALUATION OF THE NEW MONOPINE, BASE PLATE, ANCHOR BOLTS, FOUNDATION OR ANTENNA/RRU MOUNT FRAMING & CONNECTIONS FOR NEW LOADING CONDITIONS.

Issued For:

PLACERVILLE SHERIFF
3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR
verizon
2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:
EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
2	02/25/26	PLANNING COMMS	T.T.
1	12/18/25	PLANNING COMMS	S.V.
4	09/30/25	CLIENT REV	S.V.
3	09/25/25	CLIENT REV	T.T.
2	02/12/24	CD 100%	S.D.
1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

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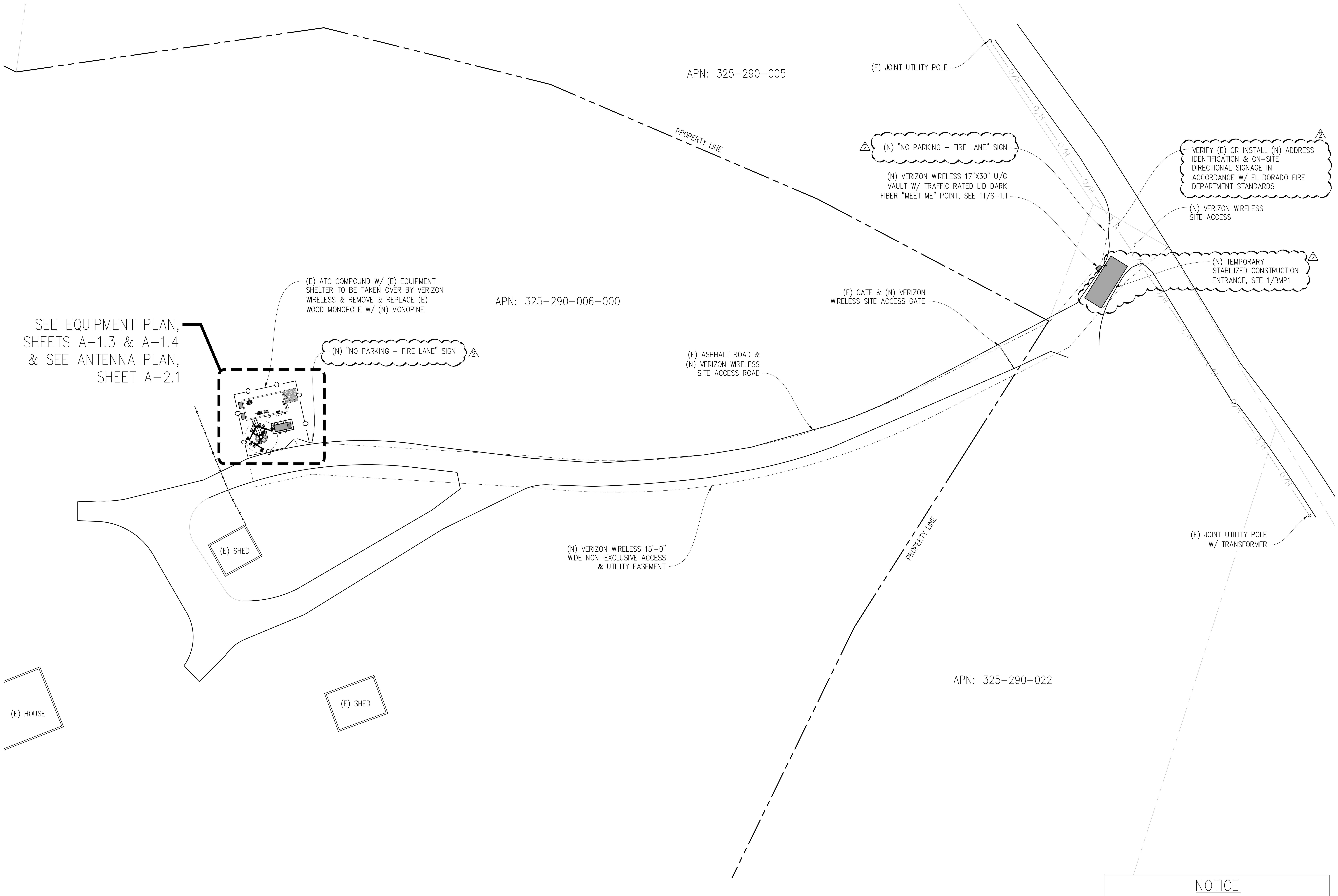
ENGINEER:
Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
A-1.1



ENLARGED SITE PLAN

1"=20'-0"

NOTICE

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PLACERVILLE, CA 95667

PREPARED FOR

verizon✓

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CHECKED BY:	S. SAVIG
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2 (triangle)	02/25/26	PLANNING COMMS	T.T.
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4	09/30/25	CLIENT REV	S.V.
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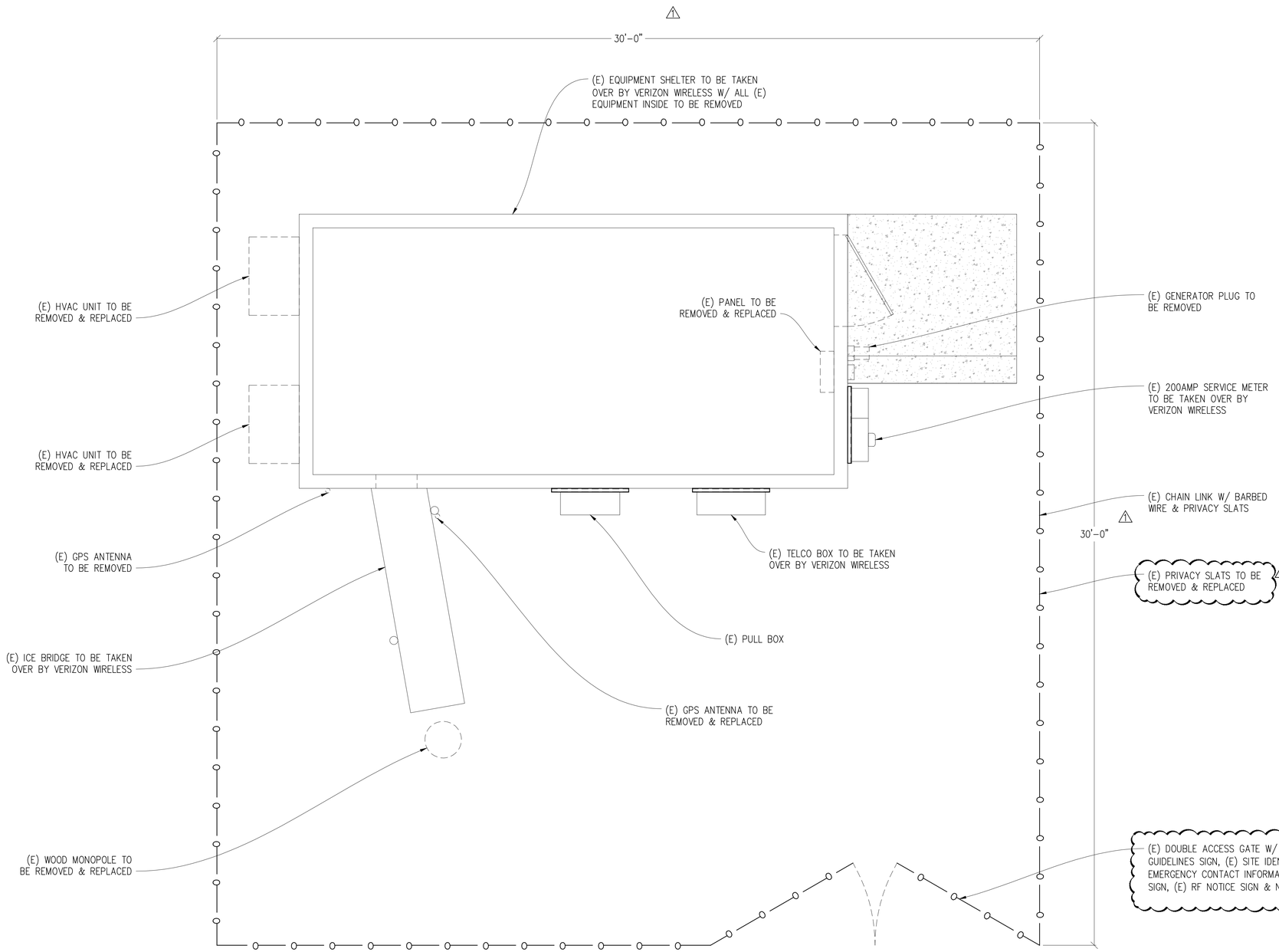
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

ENLARGED SITE PLAN

SHEET NUMBER:

A-1.2



(E) EQUIPMENT PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY,
PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

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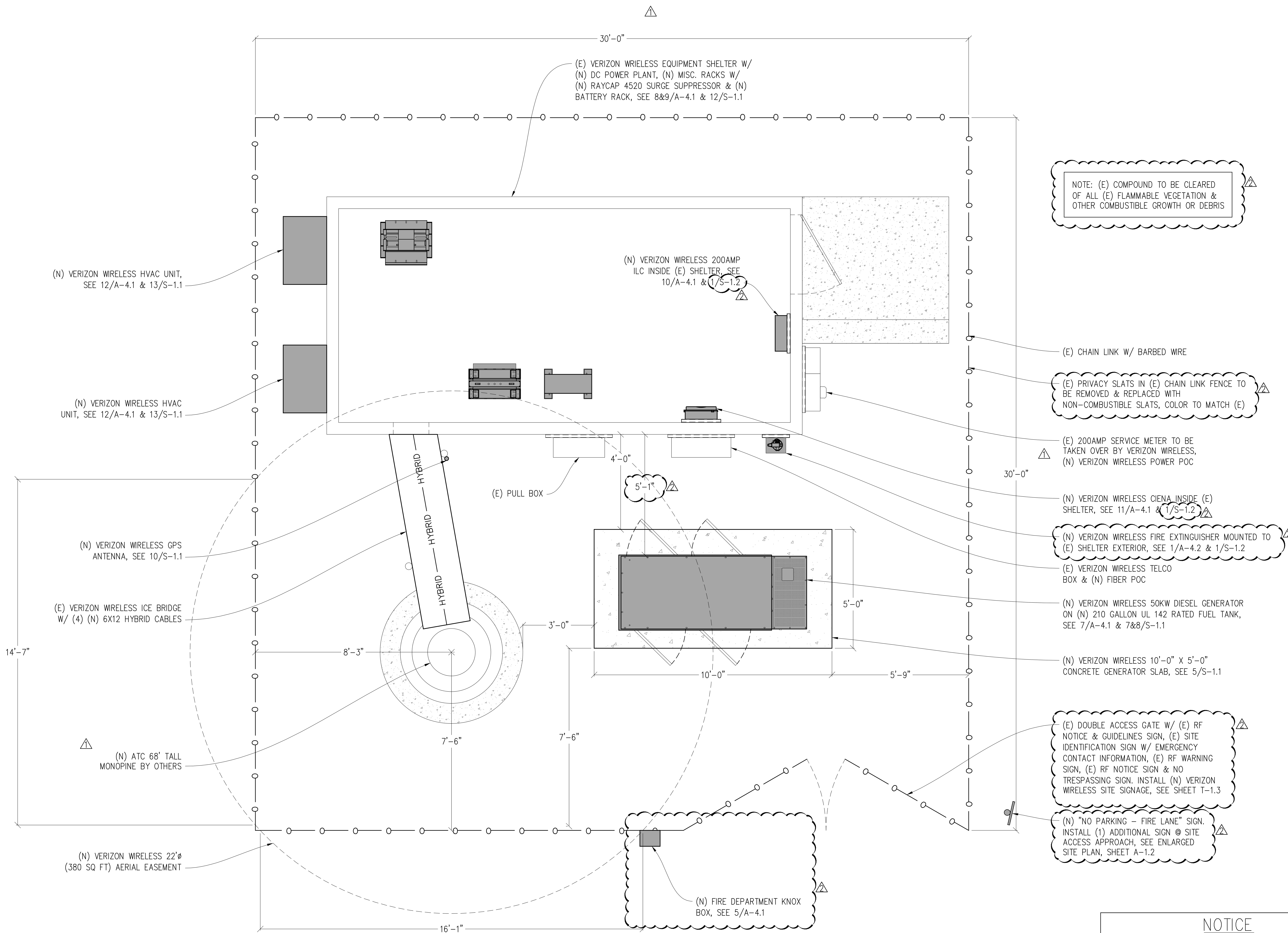
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

EQUIPMENT PLAN

SHEET NUMBER:

A-1.3



(N) EQUIPMENT PLAN

½"=1'-0"

NOTICE

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Issued For:

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PREPARED FOR

verizon

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MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

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4	09/30/25	CLIENT REV	S.V.
3	09/25/25	CLIENT REV	T.T.
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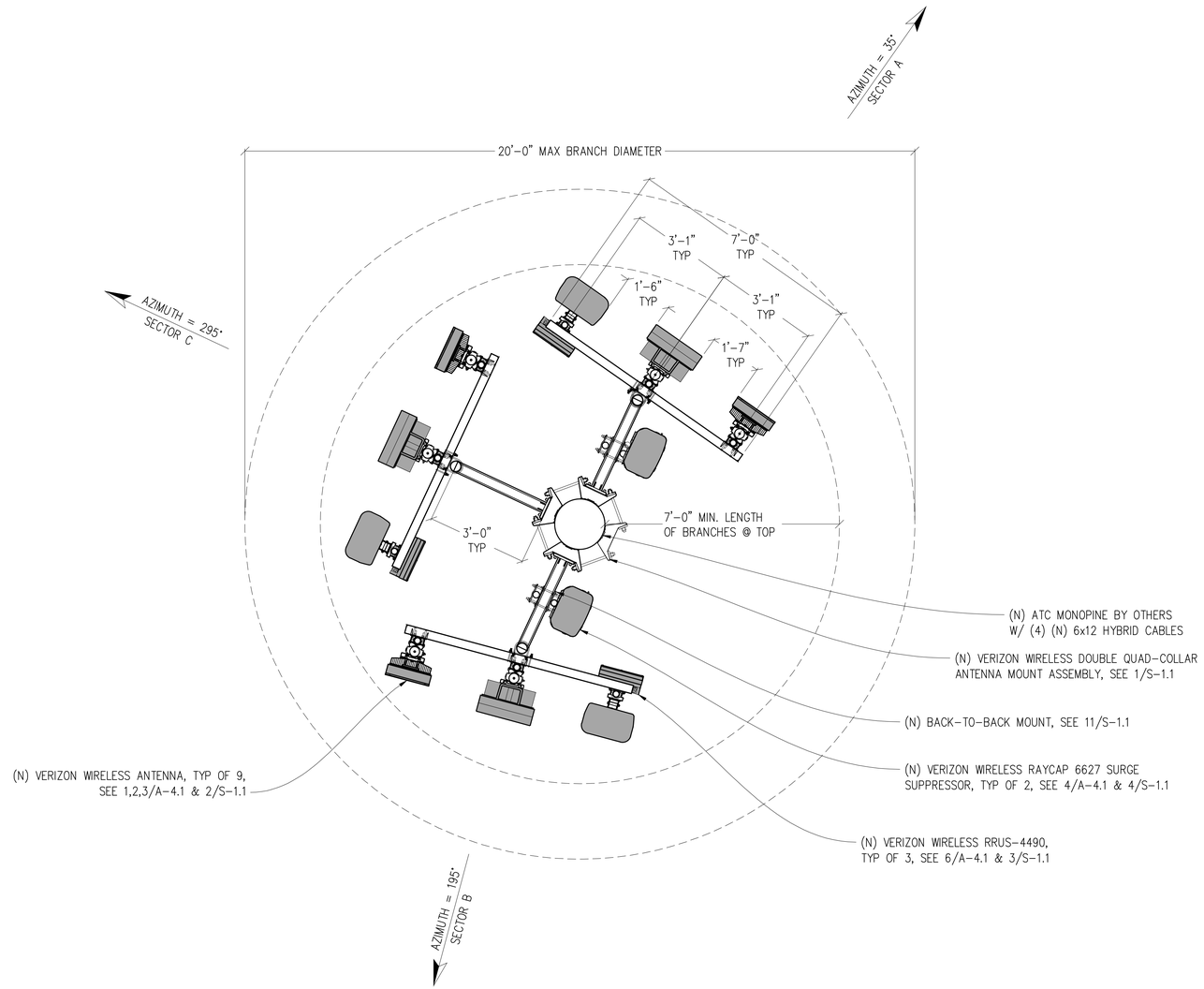
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

EQUIPMENT PLAN

SHEET NUMBER:

A-1.4



TN

ANTENNA PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

NOTICE

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3170 GOLD NUGGET WY,
PLACERVILLE, CA 95667

PREPARED FOR

verizon

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WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

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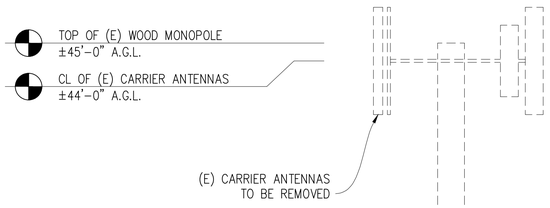
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorenson Phone: (916) 660-1940
E-Mail: kevin@streamlineeng.com Fax: (916) 660-1941

SHEET TITLE:

ANTENNA PLAN

SHEET NUMBER:

A-2.1



(E) SOUTH ELEVATION

1/4"=1'-0"

0 1' 2' 4' 6' 10' 14' 20'

NOTICE

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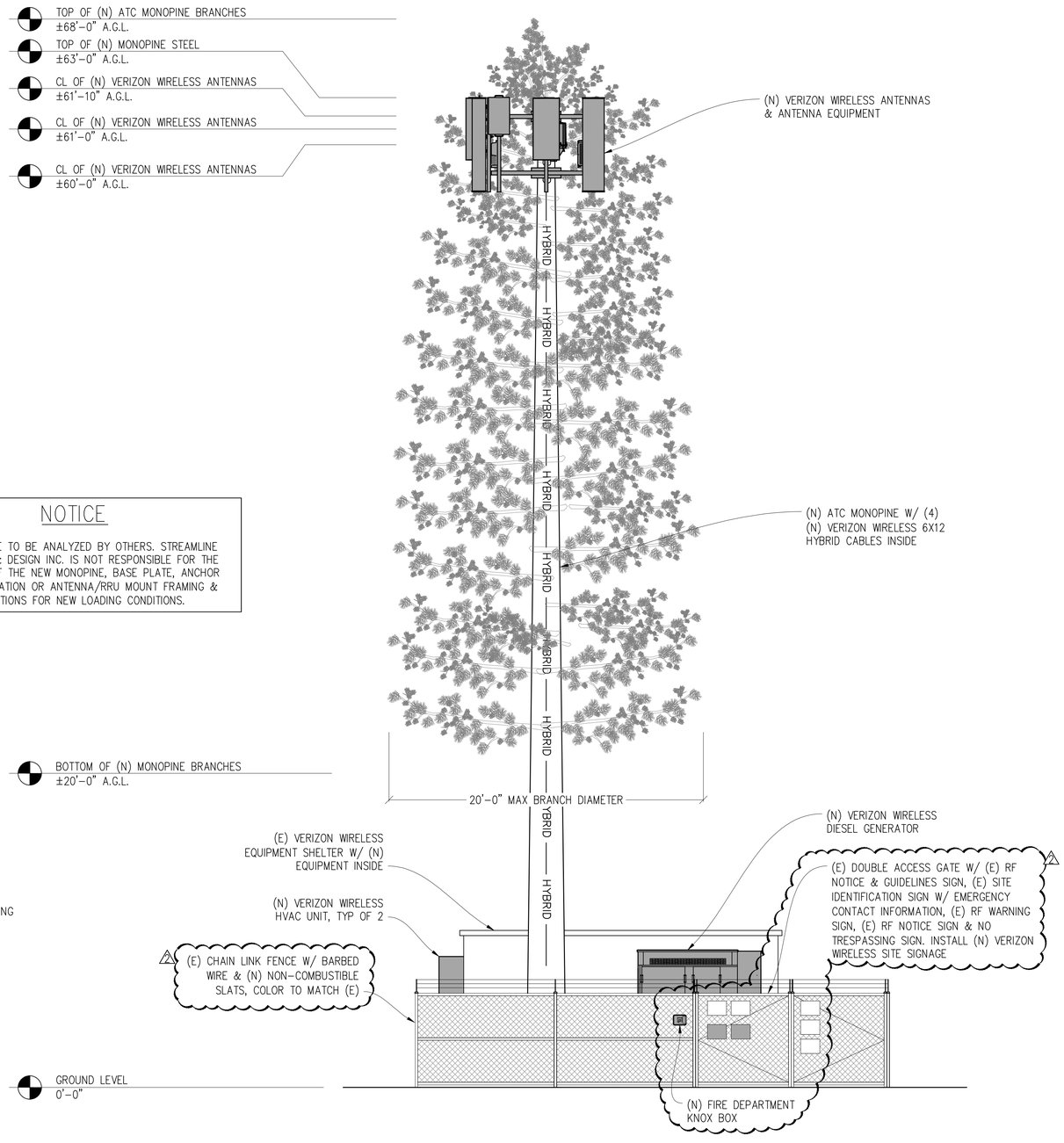

(N) SOUTH ELEVATION

1/4"=1'-0"

0 1' 2' 4' 6' 10' 14' 20'

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
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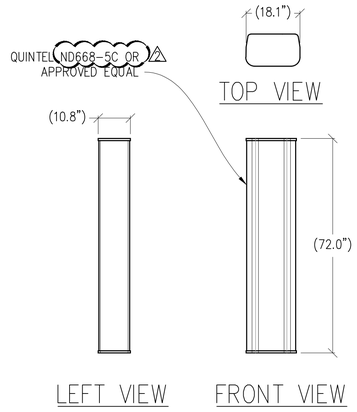
3643 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Dawson Phone: 916-660-1940
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

ELEVATIONS

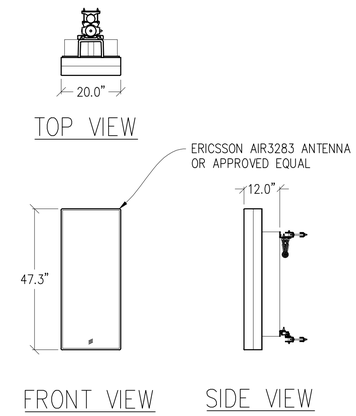
SHEET NUMBER:

A-3.1



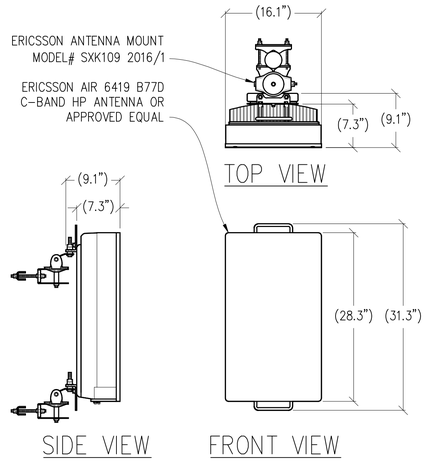
1 ANTENNA DETAIL

½"=1'-0" WEIGHT: 61 LBS



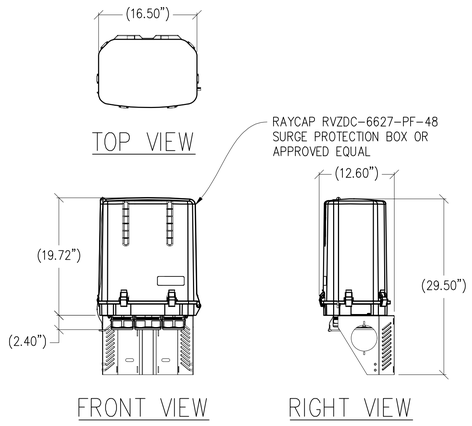
2 ANTENNA DETAIL

½"=1'-0" MAX WEIGHT: 110 LBS



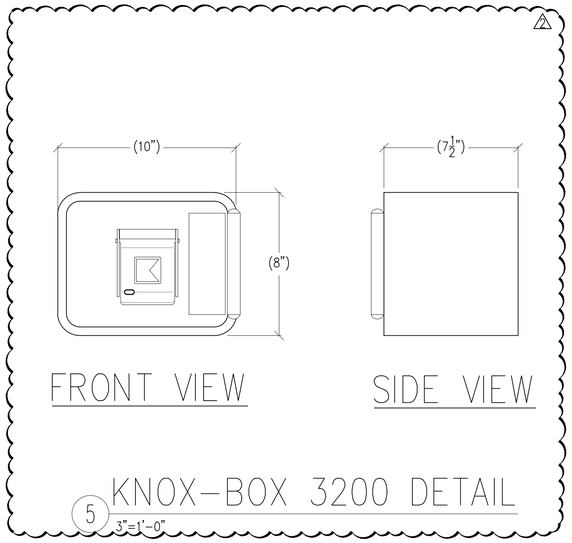
3 ANTENNA DETAIL

1"=1'-0" MAX WEIGHT: 64 LBS



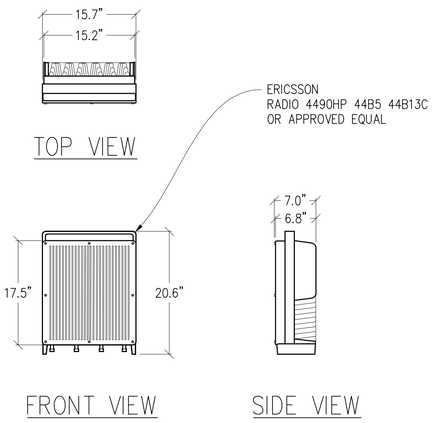
4 SURGE PROTECTION BOX

1"=1'-0" MAX WEIGHT: 32.0 LBS



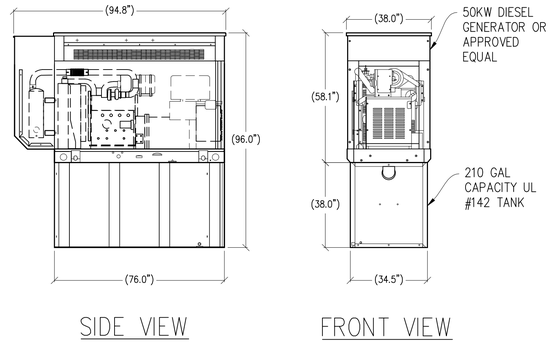
5 KNOX-BOX 3200 DETAIL

3"=1'-0"



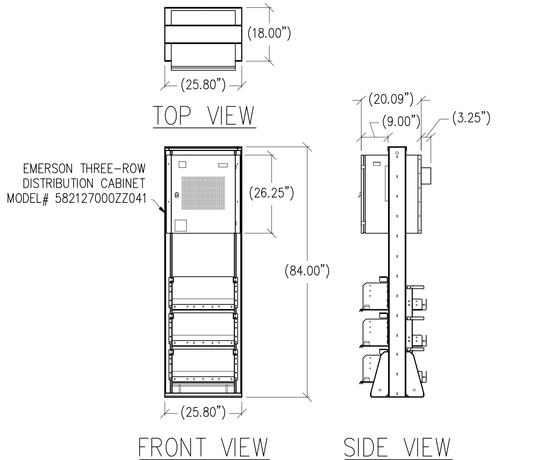
6 RADIO 4490HP DETAIL

1"=1'-0" MAX WEIGHT: 68.4 LBS



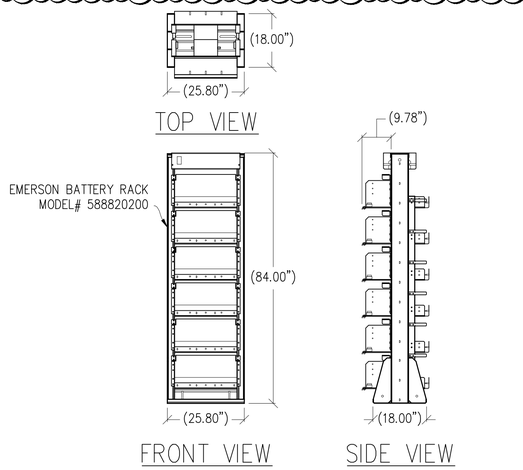
7 50KW GENERATOR DETAIL

⅜"=1'-0" MAX FULL WEIGHT: 4,697 LBS



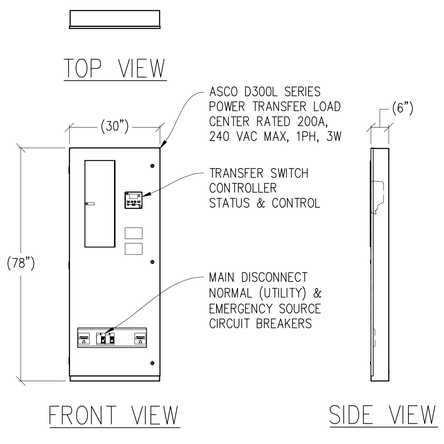
8 POWER RACK DETAIL

½"=1'-0" MAX WEIGHT: 1,155 LBS



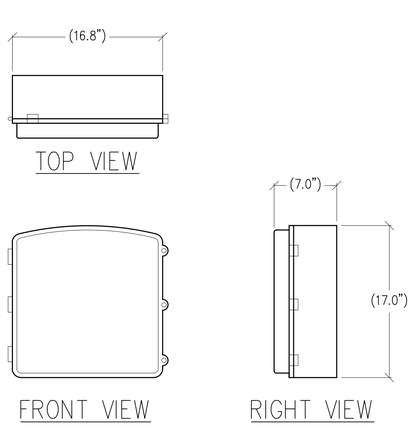
9 BATTERY RACK DETAIL

½"=1'-0" MAX WEIGHT: 2,028 LBS



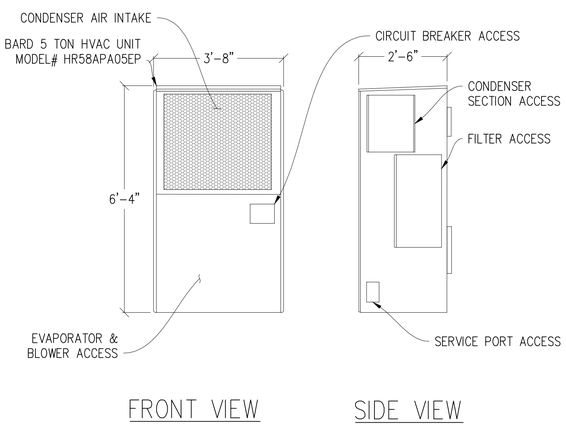
10 ILC DETAIL

½"=1'-0"



11 CN 3931 DETAIL

1½"=1'-0" MAX WEIGHT: 28.6 LBS



12 COMBO HVAC UNIT DETAIL

½"=1'-0" MAX WEIGHT: 547 LBS

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

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Connecting a Wireless World

MDG LOCATION ID:	5000940687
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CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

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Licensee:

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ENGINEER:

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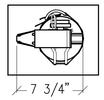
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Savage Phone: 530-863-6930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

DETAILS

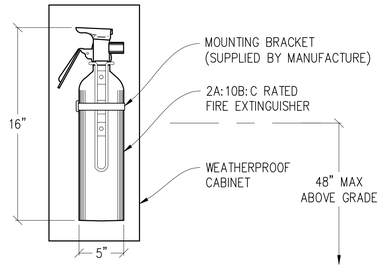
SHEET NUMBER:

A-4.1



TOP VIEW

SPECIFICATIONS
SIZE & CAPACITY: 6 LBS
HEIGHT: 16 IN
WIDTH: 7-3/4 IN
DEPTH: 5 IN
RANGE: 15-21 FT



FRONT VIEW

1 FIRE EXTINGUISHER DETAIL

N.T.S.

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S6336
STRUCTURAL
STATE OF CALIFORNIA

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SHEET TITLE:

DETAILS

SHEET NUMBER:

A-4.2

connect@alpinepowersystems.com
877-993-8855

ALPINE POWER SYSTEMS

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PowerSafe® SBS Front Terminal

Telecommunications NEBS™ Certified

Battery Range Summary

The PowerSafe® SBS® Front Terminal battery further extends the technical leadership of PowerSafe SBS battery product line: not only do PowerSafe SBS Front Terminal monoblocs retain the benefits typically associated with Thin Plate Pure Lead (TPPL) Technology such as long life, high energy density, superior shelf life, etc., they also deliver exceptional cyclic performance in both float and fast charge applications, even in the hottest and harshest operating environments.

Where conventional Valve Regulated Lead Acid (VRLA)/Absorbed Glass Mat (AGM) batteries struggle to cope with harsh conditions and frequent power outages, cutting edge (TPPL) technology makes PowerSafe 12V batteries the perfect solution for the challenging operating conditions of today's telecommunication networks.

PowerSafe SBS batteries are designed to high quality standards and a unique manufacturing methods means superior energy and power, high performance and proven reliability, there is no substitute to PowerSafe SBS Front Terminal batteries.

Features and Benefits

- Capacity range 31-190Ah
- 12V monobloc configurations
- Multiple string configurations available
- Two year shelf life
- SR4228 compliant
- Proven long service life
- High energy density and cycling capability

EnerSys Power/Full Solutions | RESERVE POWER

Publication No: US-SBSF-RS-004 - January 2014

Construction

- Robust positive plates are designed to prolong service life and enhance corrosion resistance
- Separators are low resistance microporous (ACM). The electrolyte is absorbed within the ACM, preventing acid spills in case of accidental damage
- Container and cover in flame retardant UL94-V0 material, highly resistant to shock and vibration
- Terminals are stainless steel front access with top access copper alloy insert. Top and front access terminations provide maximum conductivity
- Self-regulating one way pressure relief valves prevents ingress of atmospheric oxygen

Installation and Operation

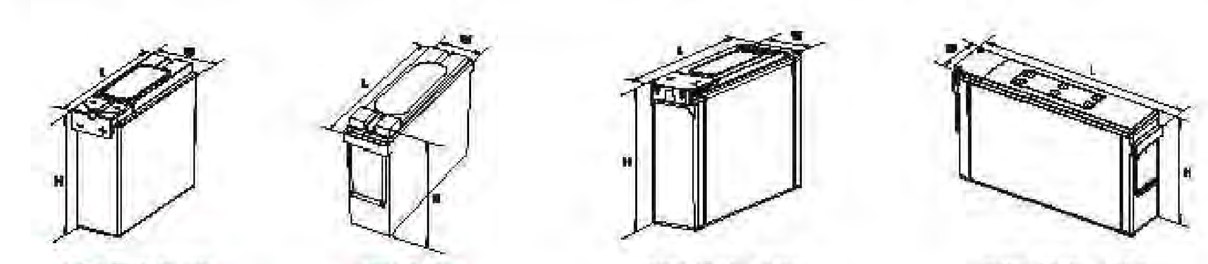
- Space efficient footprint
- VRLA design, reduces maintenance requirements
- Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- Increased active material surface area yields great cycling capability
- Operating temperature: -40°F (-40°C) to 122°F (50°C) Recommended temperature: 68°F (20°C) to 86°F (30°C)

Standards

- Meets criteria for "non-spillable" batteries
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

Cell Type	Nominal Capacity (Ah) 10 hr rate to 1.80Vpc @20°C	Nominal Capacity (Ah) 8 hr rate to 1.75Vpc @77°F	Nominal Dimensions Length in	Length mm	Width in	Width mm	Height in	Height mm	Weight – Volumes Unpacked lbs	Unpacked kg
SBS B8F	31	31	11.9	303	3.8	97	6.3	159	22.7	10.3
SBS B10F	38	38	11.9	303	3.8	97	7.2	184	28.2	12.8
SBS B14F	62	62	11.9	303	3.8	97	10.4	264	42.0	19.1
SBS C11F	92	91	16.4	417	4.1	105	10.1	258	61.6	28.0
SBS 100F	100	100	15.6	395	4.3	108	11.3	287	71.9	32.6
SBS 112F	112	112	22.1	561	4.9	125	9.0	228	90.4	41.1
SBS 145F	145	145	17.9	455	6.8	173	9.4	238	105.0	47.7
SBS 165F	165	165	17.9	455	6.8	173	10.8	273	117.4	53.3
SBS 170F	170	170	22.1	561	4.9	125	11.1	283	115.7	52.5
SBS 190F	190	190	22.1	561	4.9	125	12.4	316	132.3	60.0



SBS B8F-B14F | SBS C11F | SBS 100F-112F | SBS 145F - 190F

ALPINE POWER SYSTEMS A Division of TFL Inc.

Battery Services for Backup Power
- Battery Installation
- Capacity and Acceptance
- Preventative Maintenance

connect@alpinepowersystems.com
877-993-8855

backup power | telecom | motive power
www.alpinepowersystems.com

NEW BATTERIES

BATTERY TYPE:		ENERSYS POWERSAFE SBS 190F	
NUMBER OF UNITS W/BATTERIES		2	
NUMBER OF BATTERIES :		16	
MATERIAL:	ELECTROLYTE	VOLUME: 2.34 GALLONS	BATTERY TOTAL: 37.44 GALLONS
MATERIAL:	ACID	WEIGHT: 10.1 LBS	BATTERY TOTAL: 161.6 LBS
MATERIAL:	LEAD	WEIGHT: 95.8 LBS	BATTERY TOTAL: 1532.8 LBS
TOTAL KWH:	190AH X 12V X 16 / 1000 = 36.48 KWH		

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY,
PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
△	02/25/26	PLANNING COMMS	T.T.
△	12/18/25	PLANNING COMMS	S.V.
4	09/30/25	CLIENT REV	S.V.
3	09/25/25	CLIENT REV	T.T.
2	02/12/24	CD 100%	S.D.
1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER JAMES R. SPORE S6336 STRUCTURAL STATE OF CALIFORNIA

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.

ENGINEER:

Streamline Engineering and Design, Inc.

3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

BATTERY SPECIFICATIONS

SHEET NUMBER:

A-5.1

SD050 | 3.3L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

Standby Power Rating
50 kW, 63 kVA, 60 Hz

Prime Power Rating
45 kW, 56 kVA, 60 Hz

*Assembled in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the US or its Territories

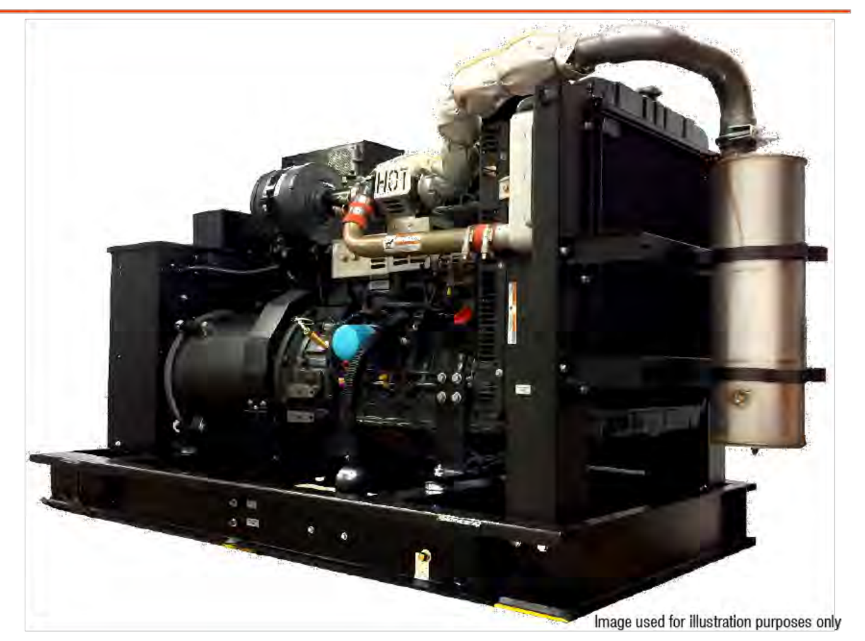


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL6200, UL1236, UL489, UL142
- CSA C22.2, ULC S601
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41
- IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

Powering Ahead

For over 60 years, Generac has provided innovative design and superior manufacturing.

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

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

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SD050 | 3.3L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Exhaust Silencer (Enclosed Units Only)

FUEL SYSTEM

- Fuel Lockoff Solenoid
- Primary Fuel Filter

COOLING SYSTEM

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze
- 120 VAC Coolant Heater

ELECTRICAL SYSTEM

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- 12 Leads (3-Phase, Non 600V)
- Class H Insulation Material
- Vented Rotor
- 2/3 Pitch
- Skewed Stator
- Auxiliary Voltage Regulator Power Winding
- Brushless Excitation
- Sealed Bearing
- Automated Manufacturing (Winding, Insertion, Lacing, Varnishing)
- Rotor Dynamically Spin Balanced
- Amortisseur Winding
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)
- Silencer of Heat Shield

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall Construction
- Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Electronic and Visual Fuel Level Indication
- Check Valve In Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM

Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)

- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

SD050 | 3.3L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Make-Up System
- Oil Heater
- Industrial Exhaust Silencer (Open Set)
- Two-Stage Air Cleaner

FUEL SYSTEM

- Flexible Fuel Lines
- Primary Fuel Filter

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

GENERATOR SET

- Extended Factory Testing (3-Phase Only)
- 8 Position Load Center

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Open Alarm Switch
- Enclosure Heater (with Motorized Dampers Only)

WARRANTY (Standby Gensets Only)

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

CONTROL SYSTEM

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Sender with Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- Remote Communication - Modem
- 10A Engine Run Relay
- Ground Fault Annunciator

FUEL TANKS (Size On Last Page)

- Electric Fuel Level
- Mechanical Fuel Level
- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- 19 in (482.6 mm) Fill Extension

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Ball Valves
- Fluid Containment Pan
- Block Heaters

CONTROL SYSTEM

- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

ALTERNATOR SYSTEM

- 3rd Breaker System

GENERATOR SET

- Special Testing
- IBC Seismic Certification

FUEL TANKS

- Overfill Protection Valve
- UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- Vent Extensions

SD050 | 3.3L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Mitsubishi
Cylinder #	4
Type	In-Line
Displacement - in^3 (L)	203.3 (3.331)
Bore - in (mm)	3.7 (94)
Stroke - in (mm)	4.72 (120)
Compression Ratio	19:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head	Cast Iron
Ignition	CI
Piston Type	Aluminum

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow Cartridge
Crankcase Capacity - qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Closed Recovery
Fan Type	Pusher
Fan Speed - RPM	2,340
Fan Diameter - in (mm)	20 (508)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Filtering (Microns)	10 Primary and 2 Secondary
Fuel Pump Type	In-Line
Injector Type	Mechanical
Fuel Supply Line - in (mm)	0.31 (7.94) NPT
Fuel Return Line - in (mm)	0.31 (7.94) NPT

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	50 A
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0050124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	<50
Standard Excitation	Synchronous Brushless
Bearings	Sealed Ball
Coupling	Direct via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SD050 | 3.3L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

	Standby	
Single-Phase 120/240 VAC @1.0pf	50 kW/50 kVA	Amps: 208
Three-Phase 120/208 VAC @0.8pf	50 kW/63 kVA	Amps: 174
Three-Phase 120/240 VAC @0.8pf	50 kW/63 kVA	Amps: 151
Three-Phase 277/480 VAC @0.8pf	50 kW/63 kVA	Amps: 75
Three-Phase 346/600 VAC @0.8pf	50 kW/63 kVA	Amps: 60

MOTOR STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%	208/240 VAC 3Ø	30%
A0050044N21	31	K0050124Y21	98	K0050124Y21	75
A0060044N21	40	K0060124Y21	124	K0060124Y21	95

FUEL CONSUMPTION RATES*

Fuel Pump Lift - ft (m)
4.5 (1.4)

Total Fuel Pump Flow (Combustion + Return) - gph (Lph)
3.57 (13.51)

Diesel - gph (Lph)

Percent Load	Standby
25%	1.2 (4.5)
50%	2.3 (8.7)
75%	3.4 (12.9)
100%	4.5 (17.0)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Air Flow (Fan Air Flow Across Radiator) - Open Set	cfm (m^3/hr)	2,500 (70.8)
Coolant Flow	gpm (Lpm)	34.0 (128.7)
Coolant System Capacity	gal (L)	3.0 (11.4)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199270SSD	
Maximum Additional Radiator Backpressure	in H_2O (kPa)	0.5 (0.1)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power - cfm (m^3/min)	90 (2.5)

ENGINE

		Standby
Rated Engine Speed	RPM	1,800
Horsepower at Rated kW**	hp	85
Piston Speed	ft/min (m/min)	1,416 (431.6)
BMEP	psi (kPa)	118 (814)

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m^3/min)	230 (6.5)
Maximum Allowable Backpressure (Post Silencer)	inHg (kPa)	1.5 (5.1)
Exhaust Temperature (Rated Output)	°F (°C)	900 (482)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

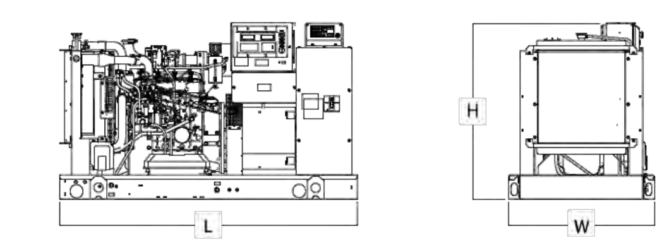
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.
Standby - See Bulletin 0187500SSB

SD050 | 3.3L | 50 kW

INDUSTRIAL DIESEL GENERATOR SET

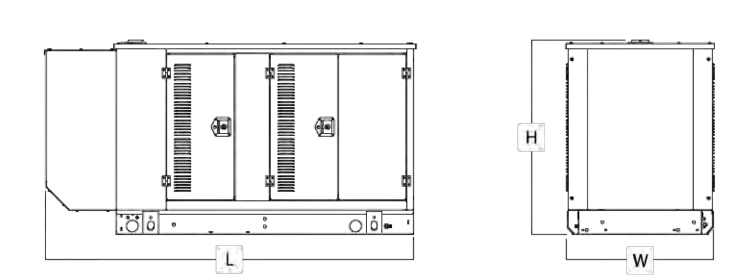
EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



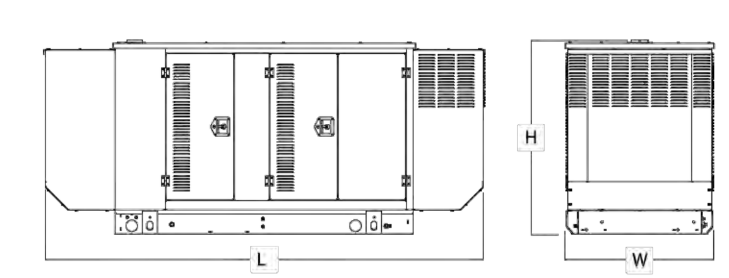
OPEN SET

Run Time -Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 45.2 (1,148)	1,765 - 1,838 (801 - 834)
12	54 (204)	76.0 (1,930) x 37.4 (950) x 58.2 (1,478)	2,254 - 2,327 (1,019 - 1,052)
29	132 (500)	76.0 (1,930) x 37.4 (950) x 70.2 (1,783)	2,475 - 2,548 (1,123 - 1,156)
42	190 (719)	106.0 (2,692) x 37.4 (950) x 71.2 (1,808)	2,689 - 2,762 (1,221 - 1,254)
46	211 (799)	76.0 (1,930) x 37.4 (950) x 82.2 (2,088)	2,684 - 2,757 (1,218 - 1,251)
66	300 (1,136)	92.9 (2,360) x 37.4 (950) x 85.7 (2,177)	2,747 - 2,820 (1,246 - 1,279)



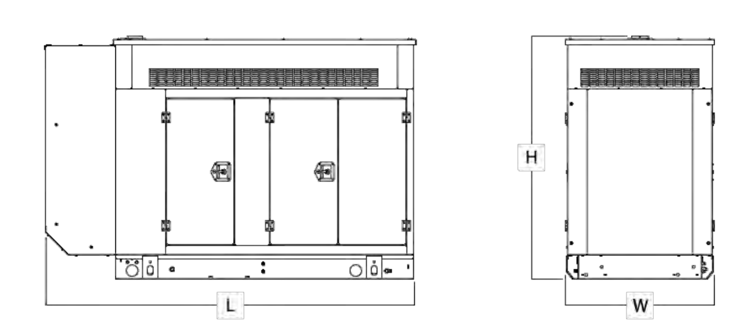
WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only: Steel	Aluminum
No Tank	-	94.8 (2,408) x 38.0 (965) x 49.5 (1,257)	448 (203)	225 (102)
12	54 (204)	94.8 (2,408) x 38.0 (965) x 62.5 (1,588)		
29	132 (500)	94.8 (2,408) x 38.0 (965) x 74.5 (1,892)		
42	190 (719)	106.0 (2,692) x 38.0 (965) x 75.5 (1,917)		
46	211 (799)	94.8 (2,408) x 38.0 (965) x 86.5 (2,197)		
66	300 (1,136)	94.8 (2,408) x 38.0 (965) x 90.0 (2,286)		



LEVEL 1 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only: Steel	Aluminum
No Tank	-	112.5 (2,858) x 38.0 (965) x 49.5 (1,257)	527 (239)	259 (117)
12	54 (204)	112.5 (2,858) x 38.0 (965) x 62.5 (1,588)		
29	132 (500)	112.5 (2,858) x 38.0 (965) x 74.5 (1,892)		
42	190 (719)	112.5 (2,858) x 38.0 (965) x 75.5 (1,917)		
46	211 (799)	112.5 (2,858) x 38.0 (965) x 86.5 (2,197)		
66	300 (1,136)	112.5 (2,858) x 38.0 (965) x 90.0 (2,286)		



LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only: Steel	Aluminum
No Tank	-	94.8 (2,408) x 38.0 (965) x 61.9 (1,572)	617 (280)	325 (147)
12	54 (204)	94.8 (2,408) x 38.0 (965) x 74.9 (1,903)		
29	132 (500)	94.8 (2,408) x 38.0 (965) x 86.9 (2,207)		
42	190 (719)	106.0 (2,692) x 38.0 (965) x 87.9 (2,232)		
46	211 (799)	94.8 (2,408) x 38.0 (965) x 98.9 (2,512)		
66	300 (1,136)	94.8 (2,408) x 38.0 (965) x 102.4 (2,601)		

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

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53189

Part No. A0001193904
Rev. A 01/18/2021

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
2 (delta)	02/25/26	PLANNING COMMS	T.T.
1 (delta)	12/18/25	PLANNING COMMS	S.V.
4	09/30/25	CLIENT REV	S.V.
3	09/25/25	CLIENT REV	T.T.
2	02/12/24	CD 100%	S.D.
1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER
JAMES R. SPORE
S6336
STRUCTURAL
STATE OF CALIFORNIA

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ENGINEER:

Streamline Engineering and Design, Inc.

3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

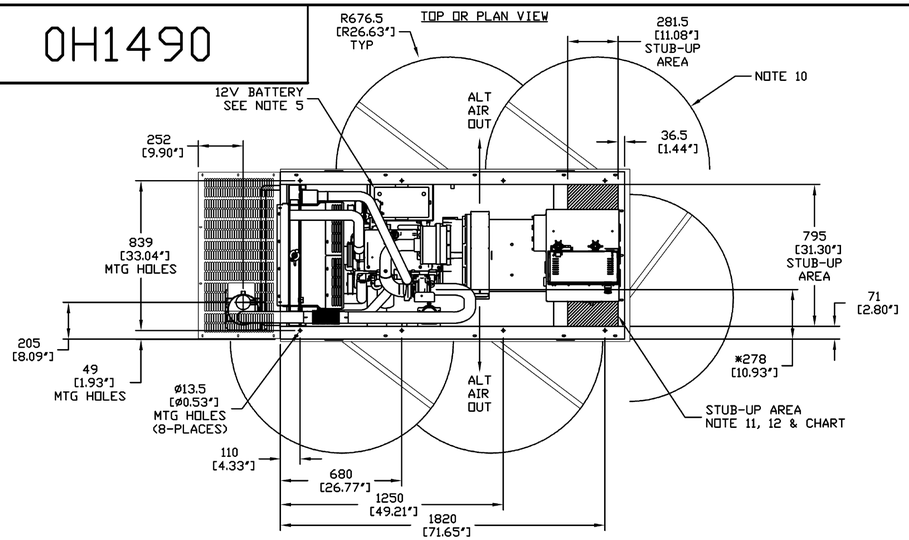
SHEET TITLE:

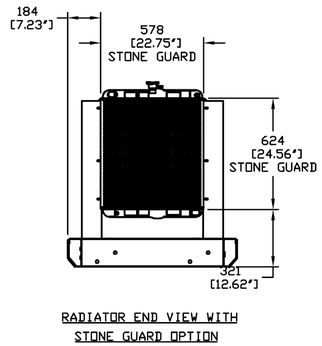
GENERATOR SPECIFICATIONS

SHEET NUMBER:

A-5.2

0H1490





RADIATOR END VIEW WITH
STONE GUARD OPTION

RECOMMENDED FUEL/ELECTRICAL STUB-UPS (SEE TOP VIEW)	
DESCRIPTION	INSIDE BASE
AC LOAD LEAD CONDUIT (RIGHT)	A
(LEFT)	A¹
ADDITIONAL STUB UP AREA FOR 120VAC GFCI OUTLET, (STANDARD BLOCK HEATER, BATTERY CHARGER, AND OTHER 120 VAC OPTIONS).	B

NOTE:
FUEL SYSTEM SET UP WITH OUTSIDE STUB UPS (SEE RIGHT SIDE VIEW). UNITS SOLD WITH OPTIONAL BASE TANK HAVE FUEL SYSTEM PLUMBED TO TANK.

WEIGHT DATA
UNIT: TBD
STEEL COMPARTMENT: TBD

UNITS: mm [INCHES]

ENGINE SERVICE CONNECTIONS

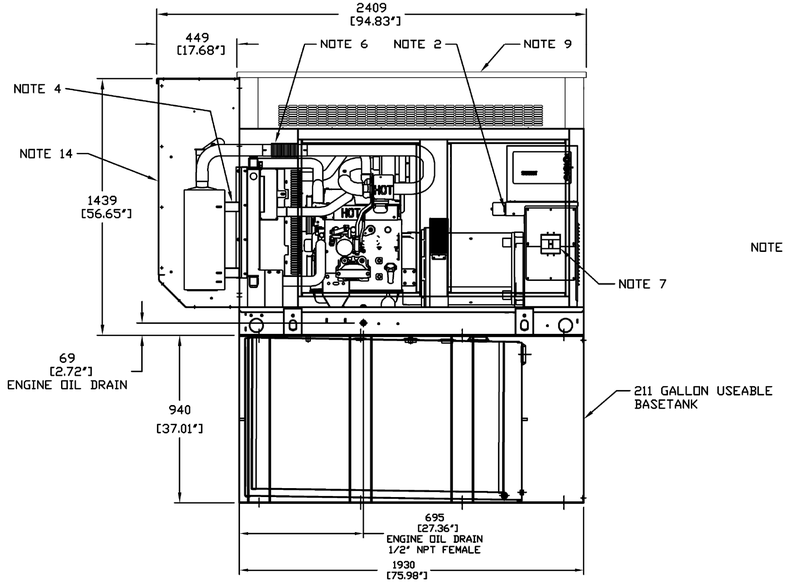
FUEL INLET = 1/4" NPT COUPLING
FUEL RETURN = 1/4" NPT COUPLING
OIL DRAIN = 1/2" NPT COUPLING
EXHAUST OUTLET - EXHAUST MANIFOLDS AS SHOWN ON OPEN SET, 3" OD MUFFLER OUTLET WITH ENCLOSURE

NOTES:

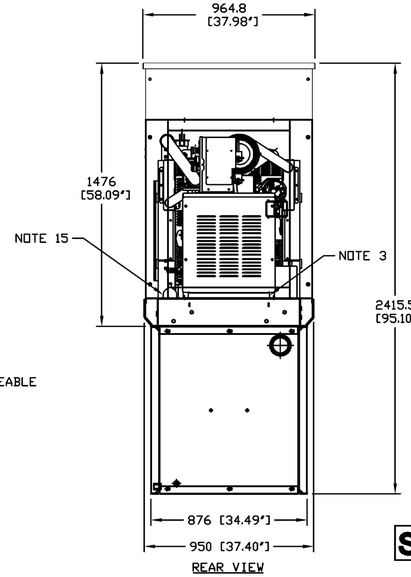
1. CONTROL PANEL MAY BE ROTATED 180° IN EITHER DIRECTION.
2. STANDARD 20A GFCI DUPLEX OUTLET - 120VAC REQUIRED.
3. CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN AC CONNECTION PANEL.
4. EXHAUST MUFFLER SUPPORT BRACKETS SUPPLIED WITH OPTIONAL COMPARTMENT.
5. 12 VOLT NEGATIVE GROUND SYSTEM.
6. 2.5" I.D. FLEX EXHAUST, STANDARD WITH COMPARTMENT UNITS, OPTIONAL WITHOUT.
7. MAIN LINE CIRCUIT BREAKER (MLCB) AND AC LOAD LEAD CONNECTION.
8. REMOVABLE BLANK PANEL FOR OPTIONAL 2nd MAIN LINE CIRCUIT BREAKER.
9. OPTIONAL COMPARTMENT
10. DOORS MUST BE ABLE TO OPEN 90 DEG. TO BE REMOVED.
11. STUB-UPS:
    STANDARD BASE TANK REQUIRES ALL STUB-UPS TO BE OUTSIDE OR IN THE REAR TANK STUB-UP AREA.
12. A OR A¹ IS THE STUB UP AREA UNDER THE MLCB, DEPENDING ON CIRCUIT BREAKER LOCATION. AREA B IS STUB UP AVAILABLE FOR UNITS WITH A BASE TANK.
13. STONE GUARD AND AIR DUCT ADAPTER STANDARD WITH OPEN SET ONLY.
14. SEE DRAWING OC3850 FOR DUCT REMOVAL. REMOVAL OF FRONT DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.

*NOTE: DIMENSIONS TO THE CENTER OF EXHAUST FLANGE SHOULD BE USED AS A REFERENCE WHEN EXHAUST SYSTEM IS NOT ORDERED. APPLIES TO OPEN SET ONLY.

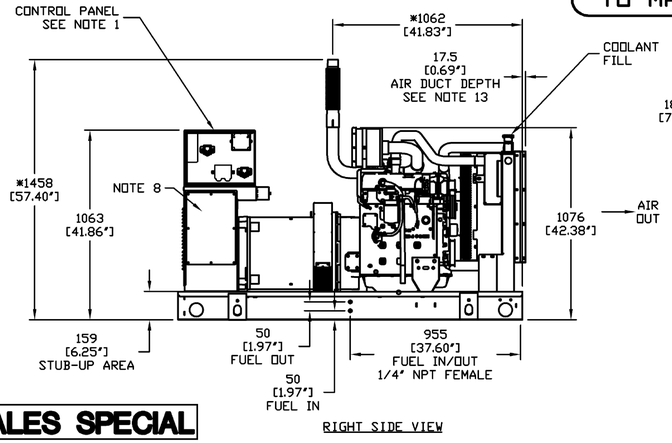
PRELIMINARY DRAWING NOT FOR CONSTRUCTION SUBJECT TO CHANGE PRIOR TO MANUFACTURING UNIT



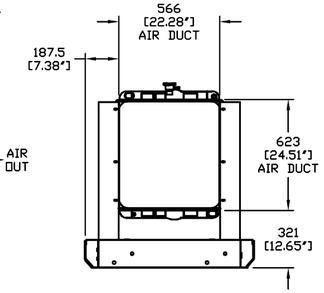
LEFT SIDE VIEW



REAR VIEW



RIGHT SIDE VIEW



RADIATOR END VIEW WITH
AIR DUCT ADAPTER OPTION

SALES SPECIAL

INSTALLATION DRAWING

SD50 G4 2.4L

48 HR RUN TIME W/ TANK SHOWN

LEVEL 2A ENCLOSURE

ISSUE DATE:

GENERAC POWER SYSTEMS
Waukesha
P.O. BOX 8
WAUKESHA, WIS. 53187

FILE NAME	0H1490-A.DWG	SIZE B
SCALE	NTS	FIRST USE 2.4L G4
DWG NO.	0H1490	REV A

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY,
PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
4	02/25/26	PLANNING COMMS	T.T.
3	12/18/25	PLANNING COMMS	S.V.
4	09/30/25	CLIENT REV	S.V.
3	09/25/25	CLIENT REV	T.T.
2	02/12/24	CD 100%	S.D.
1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER JAMES R. SPORE S6336 STRUCTURAL STATE OF CALIFORNIA

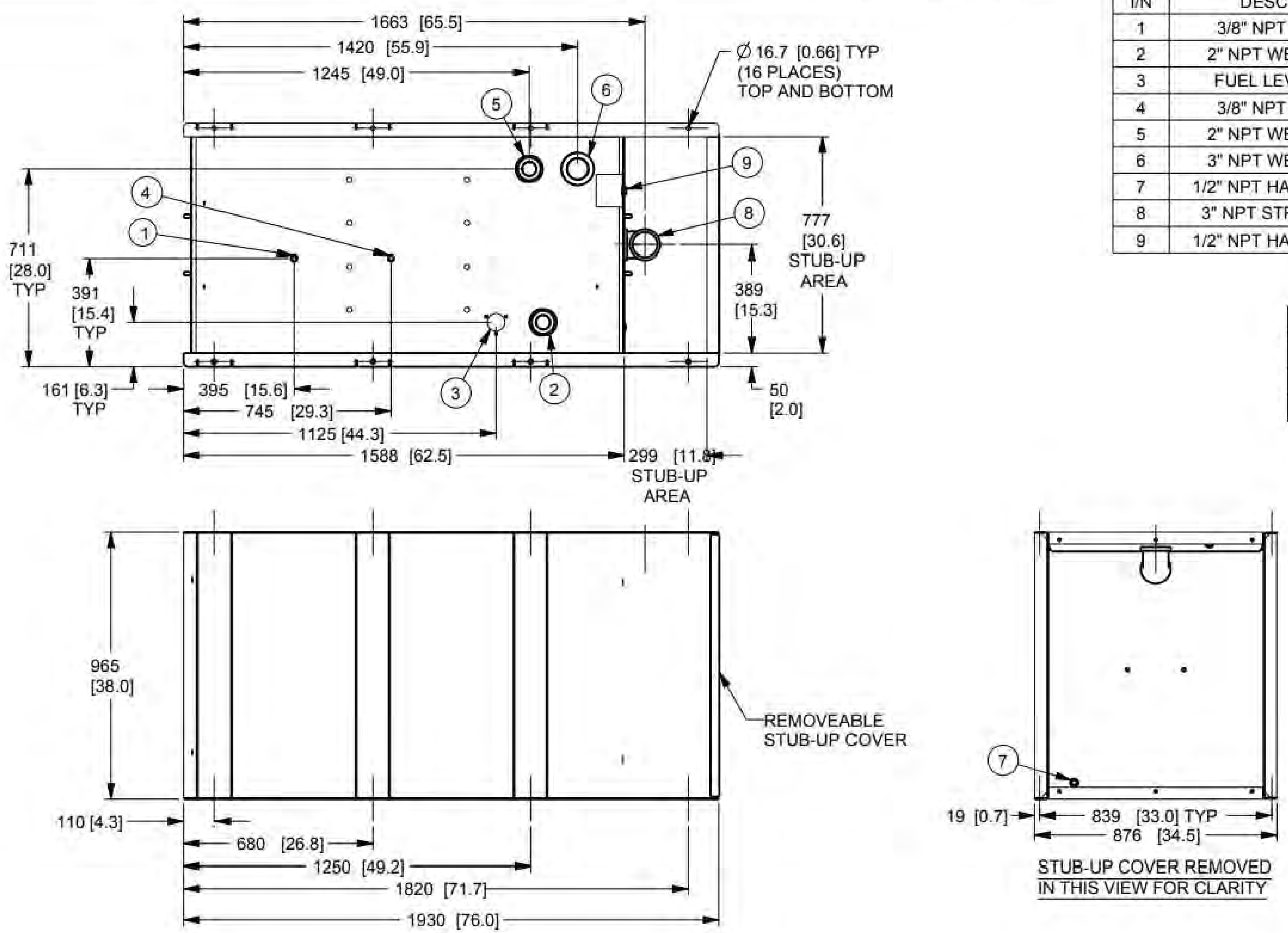
ENGINEER:

Streamline Engineering and Design, Inc.
3943 Taylor Road, Suite A, Loomis, CA 95650
Cell: 916-660-1941 Office: 916-660-1950
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:
GENERATOR SPECIFICATIONS

SHEET NUMBER:
A-5.3

SH 1/1 REV A



I/N	DESCRIPTION	FUNCTION
1	3/8" NPT COUPLING	FUEL SUPPLY
2	2" NPT WELD FLANGE	FUEL FILL
3	FUEL LEVEL GAUGE	ELECTRONIC SENDER/VISUAL GAUGE
4	3/8" NPT COUPLING	FUEL RETURN
5	2" NPT WELD FLANGE	NORMAL VENT
6	3" NPT WELD FLANGE	INNER TANK EMERGENCY VENT
7	1/2" NPT HALF COUPLING	OUTER TANK LEAK DETECTOR
8	3" NPT STREET ELBOW	OUTER TANK EMERGENCY VENT
9	1/2" NPT HALF COUPLING	FLUID BASIN ALARM

TANK P/N	0J81730ST03
TOTAL CAPACITY	825 [218]
USABLE CAPACITY	795 [210]
DRY WEIGHT	448 [988]

CAPACITY: LITER (GALLONS)
WEIGHT: KILOGRAMS (POUNDS)
DIMENSIONS: MM (INCH)

UL #142 LISTED

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

INSTALLATION DRAWING

ELECTRONICALLY APPROVED INSIDE WINDCHILL

LIFECYCLE STATE: Production Released

GENERAC

TITLE: INSTALL BASETANK A-GRP 210 GAL WITH FLUID CONTAINMENT

ISSUE DATE:

SIZE	CAGE NO	DWG NO	REV
B	N/A	0J8971	A

SCALE 0.063 | WT-KG 0.00 | SHEET 1 of 1

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

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△	12/18/25	PLANNING COMMS	S.V.
4	09/30/25	CLIENT REV	S.V.
3	09/25/25	CLIENT REV	T.T.
2	02/12/24	CD 100%	S.D.
1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

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ENGINEER:

Streamline Engineering and Design, Inc.

3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930 Fax: 916-660-1941
E-Mail: kevin@streamlineeng.com

SHEET TITLE:

GENERATOR SPECIFICATIONS

SHEET NUMBER:

A-5.4

Clay & Bailey Mfg. Co.

100 YEARS — A CENTURY'S WORTH OF INNOVATION

366 Female Thread High Flow Emergency Vent for Aboveground Storage Tanks


366 HF

Features:
All Aluminum Construction is lightweight for easy handling and installation. Also, no rust issues from scratches or weathering. Buna-N O Ring provides a vapor resistant seal. Spring Actuated Vent assures accurate opening pressure. Pressure relief set at <0.5 PSI. Clay & Bailey vents can be used in a variety of Aboveground Storage Tank Equipment installations where reliable fuel handling petroleum equipment is required.

Part #	Size	Weight /lbs.	Size	Airflow W/Screen	Airflow W/O Screen
0366-03-30HF	3"	3	3"	66,400 SCFH	71,750 SCFH
0366-03-40HF	4"	4	4"	114,800 SCFH	118,750 SCFH
0366-03-50HF	5"	5	5"	184,500 SCFH	200,250 SCFH
0366-03-60HF	6"	6	6"	237,000 SCFH	251,700 SCFH
0366-03-80HF	8"	7	8"	500,552 SCFH	531,289 SCFH

c UL US LISTED

Clay & Bailey emergency vents comply with various codes – Petroleum Equipment Institute PEI RP200; Underwriters Laboratories Inc. UL-142, UL-2085, UL-2244, UL-2583; Underwriters Laboratories of Canada ULC-S601; National Fire Protection Agency NFPA 30, NFPA 30A; American Petroleum Institute API 2000.

Patent # 8171955

10/2018

6401 E. 40th St., Kansas City, Mo. 64129 • 1-800-821-6583 • F: 816-924-3903 • www.claybailey.com

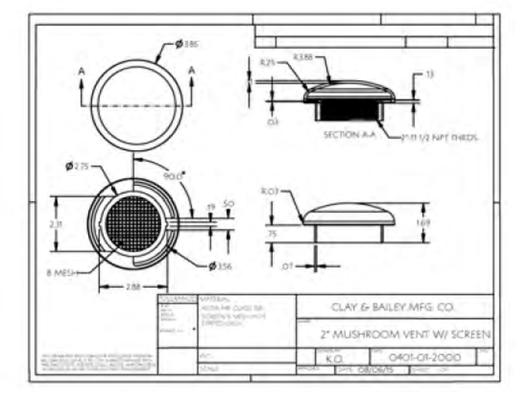
Clay & Bailey Mfg. Co.

100 YEARS — A CENTURY'S WORTH OF INNOVATION

401 Mushroom Vent


401

Features:
Mushroom style free flow vent is made of cast iron with a 8 mesh galvanized screen. Domed vent top prevents tank contamination from entering vent lines. NPT thread is standard. Also available in galvanized. (Shown)



Cast iron Black

Part No.	Size	lbs	SCFH@ 2.5psi	A	B
0401-01-0750	3/4"	0.3	4,894	3/4"	1"
0401-01-1000	1"	0.5	8,711	1"	1 1/8"
0401-01-1250	1 1/4"	0.6	13,616	1 1/4"	1 1/2"
0401-01-1500	1 1/2"	0.7	19,532	1 1/2"	1 9/16"
0401-01-2000	2"	1.1	38,846	2"	1 11/16"
0401-01-4000	4"	2.5	54,873	4"	3"

Galvanized

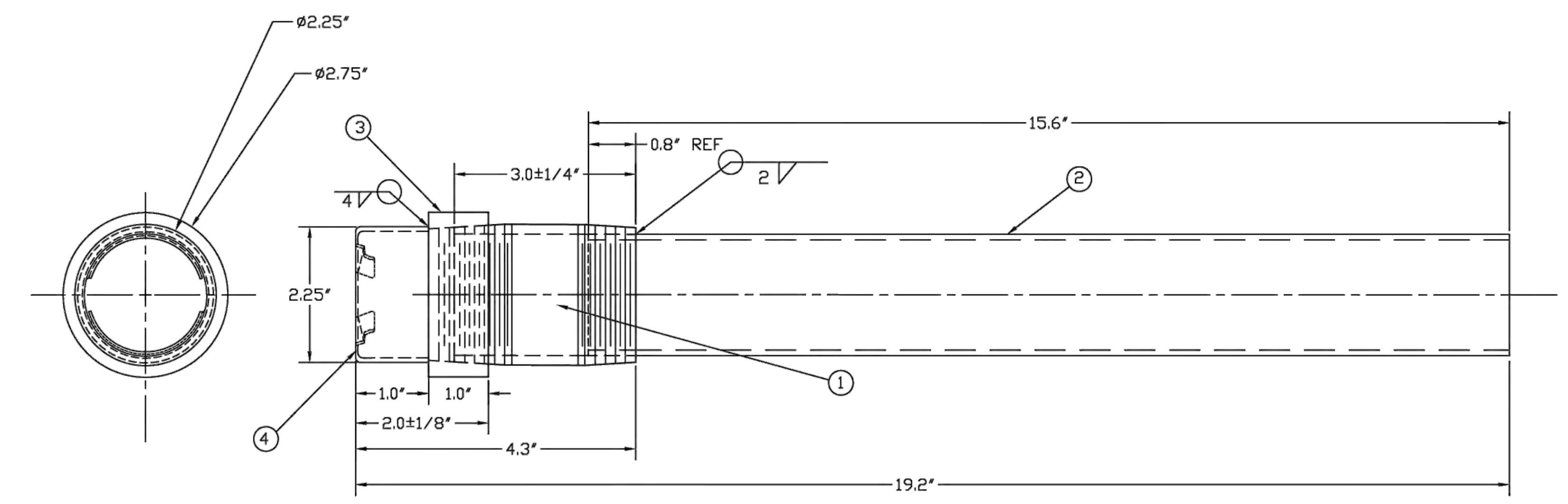
Part No.	Size	lbs	2.5psi	A	B
0401-10-0750	3/4"	0.3	4,894	3/4"	1"
0401-10-1000	1"	0.5	8,711	1"	1 1/8"
0401-10-1250	1 1/4"	0.6	13,616	1 1/4"	1 1/2"
0401-10-1500	1 1/2"	0.7	19,532	1 1/2"	1 9/16"
0401-10-2000	2"	1.1	38,846	2"	1 11/16"
0401-10-4000	4"	2.5	54,873	4"	3"

6401 E. 40th St., Kansas City, Mo. 64129 • 1-800-821-6583 • F: 816-924-3903 • www.claybailey.com

NOTE:
FILL PIPE SHALL TERMINATE WITHIN 6" OF TANK BOTTOM

ITEM	PART #	QTY	DESCRIPTION
1	ES1011	1	STD 2" STEEL NIPPLE 3" LONG
2	ES1022	1	TUBE, 16 GA 2" OD ELEC WELD STD
3	ES1023	1	FILLER NECK FEMALE COUPLING 2" STD
4	ES1024	1	STD FILLER CAP 2-1/4" OD ELECT WELD STD

NOTE:
THREADS MUST BE FREE OF WELD



FUEL FILL NECK
376 MM [14.8"] IN TANK

ENERGY SYSTEMS
7100 S. LONGE STREET, SUITE 300
STOCKTON, CA. 95206
PH: 209-870-1900
FAX: 209-870-1950

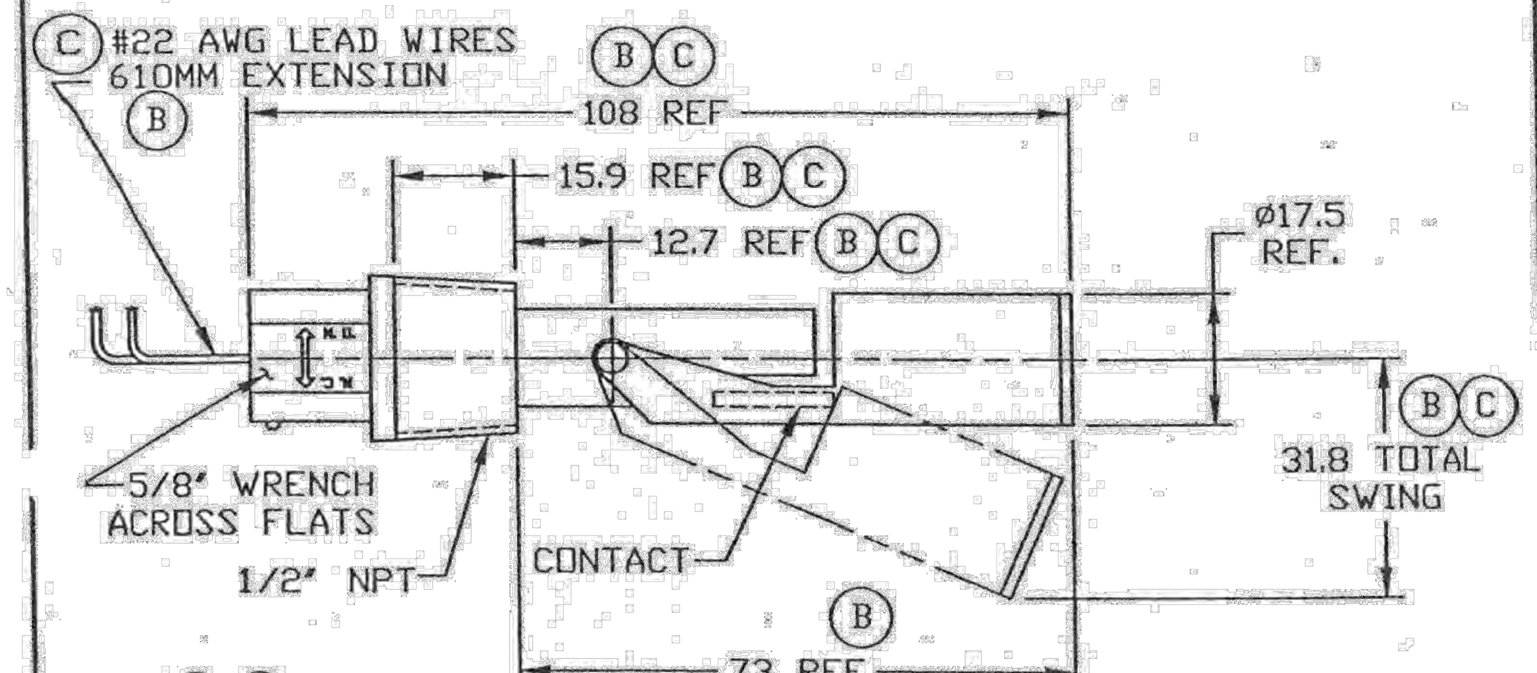
DO NOT SCALE
ALL DIMENSIONS AND TOLERANCING PER ASME Y14.5M-1994
UNLESS OTHERWISE SPECIFIED:
XX DIM ---- ±0.4 MM
XX.X DIM ---- ±0.4 MM
XX.XX DIM ---- ±0.15 MM
ALL ANGLES ---- ±1°

GENERAC POWER SYSTEMS OWNS THE COPYRIGHT OF THIS DRAWING WHICH IS SUPPLIED IN CONFIDENCE AND MUST NOT BE USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED WITHOUT THE EXPRESS WRITTEN CONSENT OF GENERAC POWER SYSTEMS. © GENERAC POWER SYSTEMS 2000

096500

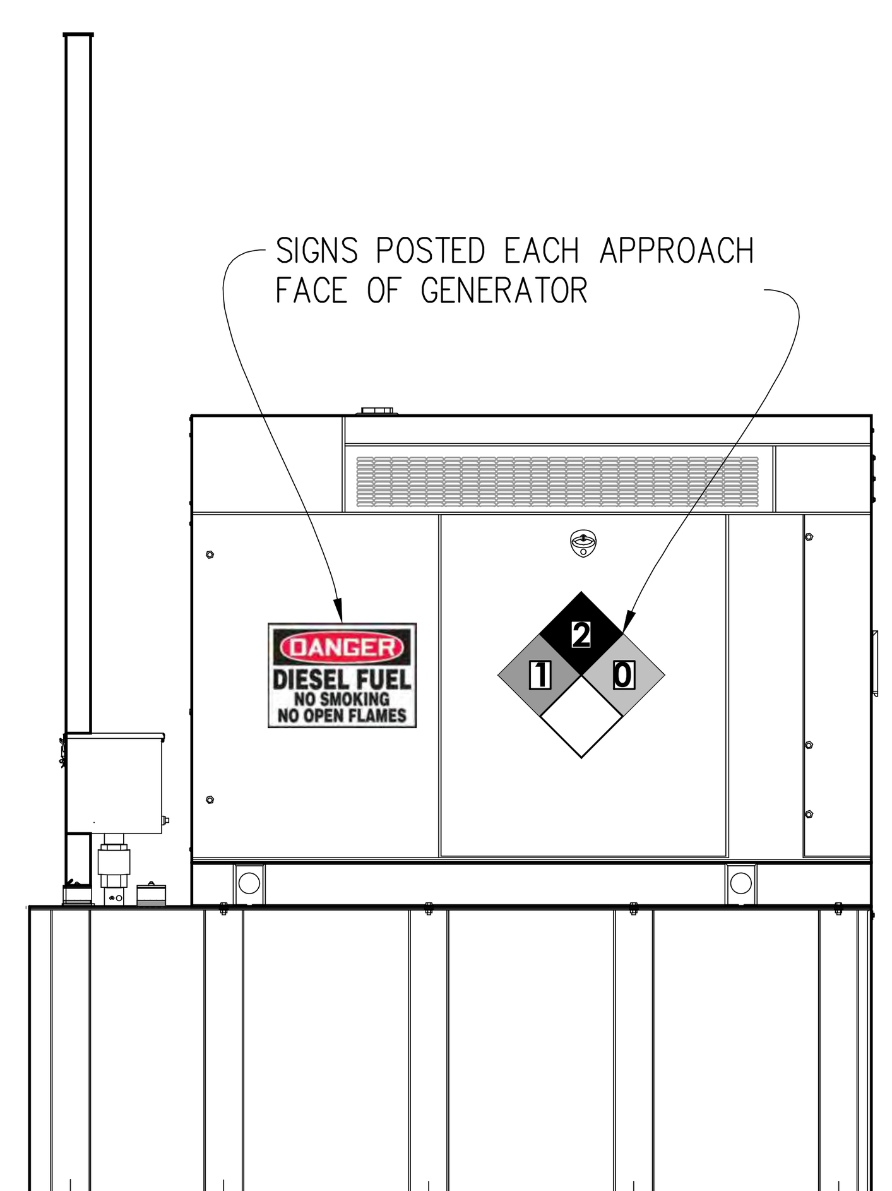
Date	Rev	Description
7/20/2000	-A	REVISED TO INCLUDE EAGLE BORDER
9/00	-B	DIM 610 EXTENSION WAS 609.5 TO 660.4 EXT, ADDED DIM 15.5 REF, DIM 38.1 TOTAL SWING WAS 31.8 REF, DIM 17 REF WAS 15.9 REF, DIM 101.5 REF WAS 107.9 REF, DIM 72.5 REF WAS 73 REF, REVISED MATERIAL SPEC TO MATCH NEW VENDOR SPEC. VENDOR WAS GEMS SENSOR INC, ADDED ELECTRICAL RATING AND INSTALLATION NOTE
4/28/03	F-9937-C	CHANGED DIMS AND SPEC TO MATCH NEW VENDOR'S SPECIFICATIONS, ALSO CHANGED INSTALLATION NOTE. SEE ECO FOR MORE DETAIL

(B) INSTALLATION NOTE: TIGHTEN TO ONE TURN PAST HAND TIGHT.
(C) LEAK DETECTOR MUST BE INSTALLED IN THE NORMALLY OPEN (N.O.) POSITION AS SHOWN FOR IT TO FUNCTION CORRECTLY IN GENERAC'S UL TANK SECONDARY CONTAINMENT LEAK DETECTION APPLICATION. OVER TIGHTENING WILL RESULT IN DAMAGE TO THE LEAK DETECTOR AND IMPROPER OPERATION.

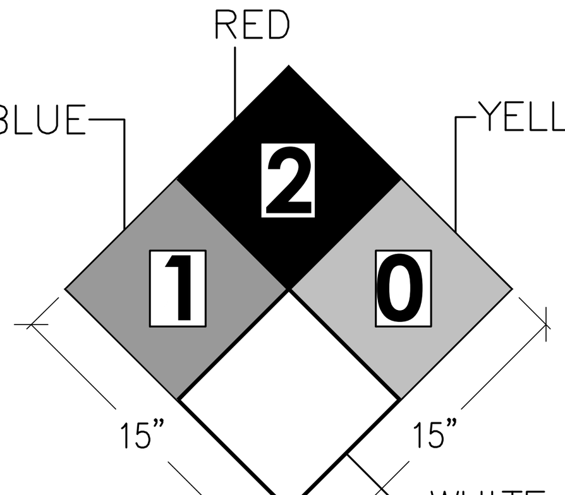


SPEC: (B)(C)
MATERIAL: NYLON
MOUNTING ATTITUDE: HORIZONTAL
OPERATING TEMPERATURE: -40°F TO 250°F (-40°C TO 121.1°C)
MAX. OPERATING PRESSURE: 100 PSIG AT 70°F
THIS SWITCH IS U.L. RECOGNIZED - FILE #E45168, CSA LISTED - 30200
CONTACT RATING: .17 AMP, 120V, 60 Hz, RESISTIVE
.08 AMP, 240V, 60 Hz, RESISTIVE
20 VA PILOT DUTY
DC ELEC. RATING: .3 AMP MAX @30 VDC

DRAWING TITLE: FUEL ALARM, LEAK DETECTOR				GENERAC POWER SYSTEMS Eagle P.O. BOX 8 WAUKESHA, WIS. 53187
MATERIAL:				FILE NAME: 096500-C.DWG SIZE A
DWN: CDV	DATE: 3/13/95	MFG: N/A	DATE: N/A	EST. WT. / SCALE: 1 = 1 / FIRST USE: UL TANKS
CHKD: TMM	DATE: 1/5/01	APPD: PF	DATE: 1/5/01	FINAL WT. / DWG NO.: 096500 / REV: C
RELEASED FOR PRODUCTION	BY: P. FORSYTHE		DATE: 1/5/01	

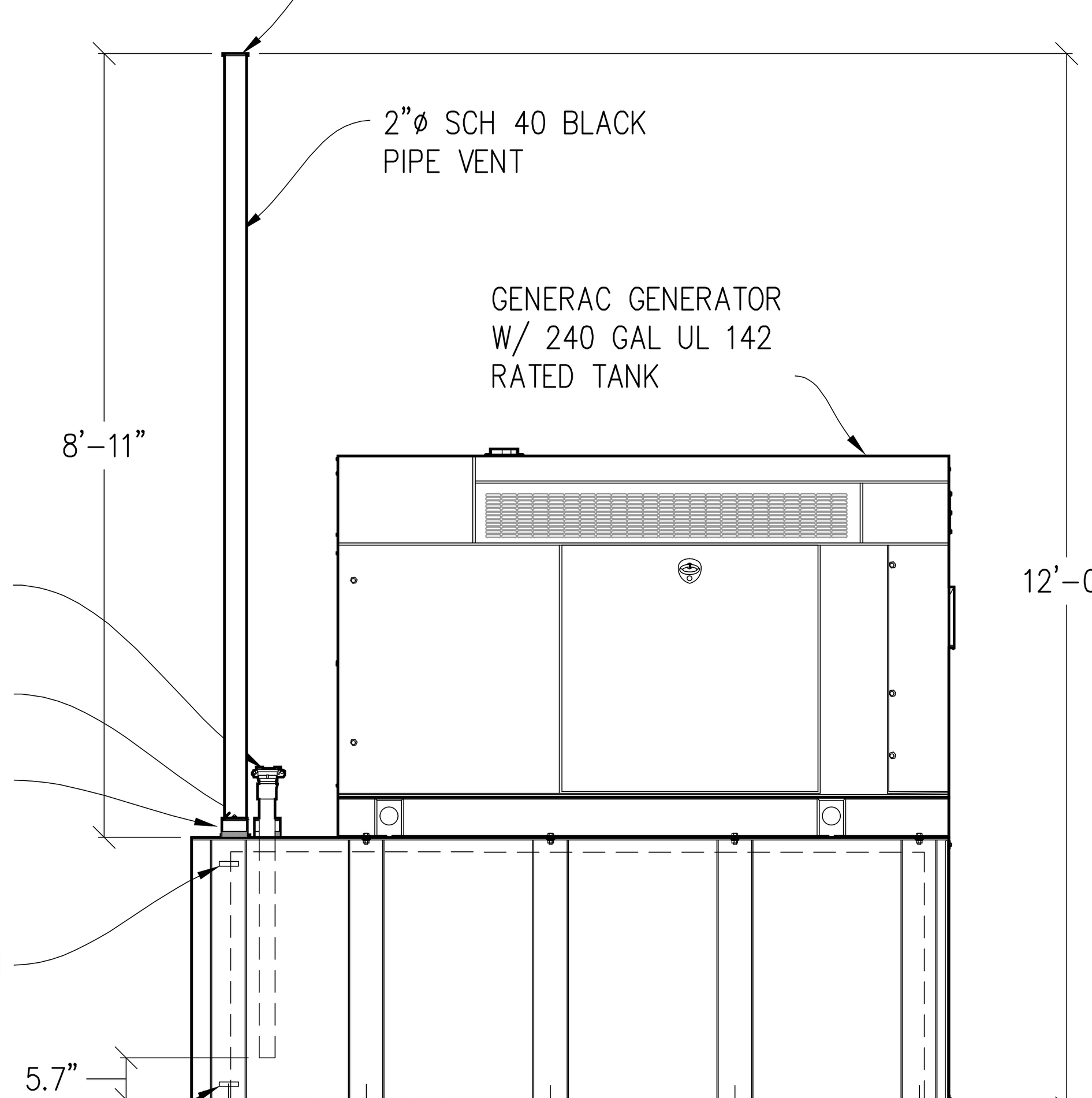


10"
7"
DANGER
DIESEL FUEL
NO SMOKING
NO OPEN FLAMES



NOTE:
1. LETTERS SHALL BE A MINIMUM OF 3" IN HEIGHT
2. SIGN TO BE PLACED ON ALL SIDES OF GENERATOR
3. 10"x14" ALUMINUM NO SMOKING SIGN

(1) GENERATOR SAFTEY SIGNAGE
NOT TO SCALE



(2) GENERATOR VENT & FILL DETAIL
½"=1'-0"

Issued For:
PLACERVILLE SHERIFF
3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR
verizon
2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:
EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
△	02/25/26	PLANNING COMMS	T.T.
△	12/18/25	PLANNING COMMS	S.V.
4	09/30/25	CLIENT REV	S.V.
3	09/25/25	CLIENT REV	T.T.
2	02/12/24	CD 100%	S.D.
1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

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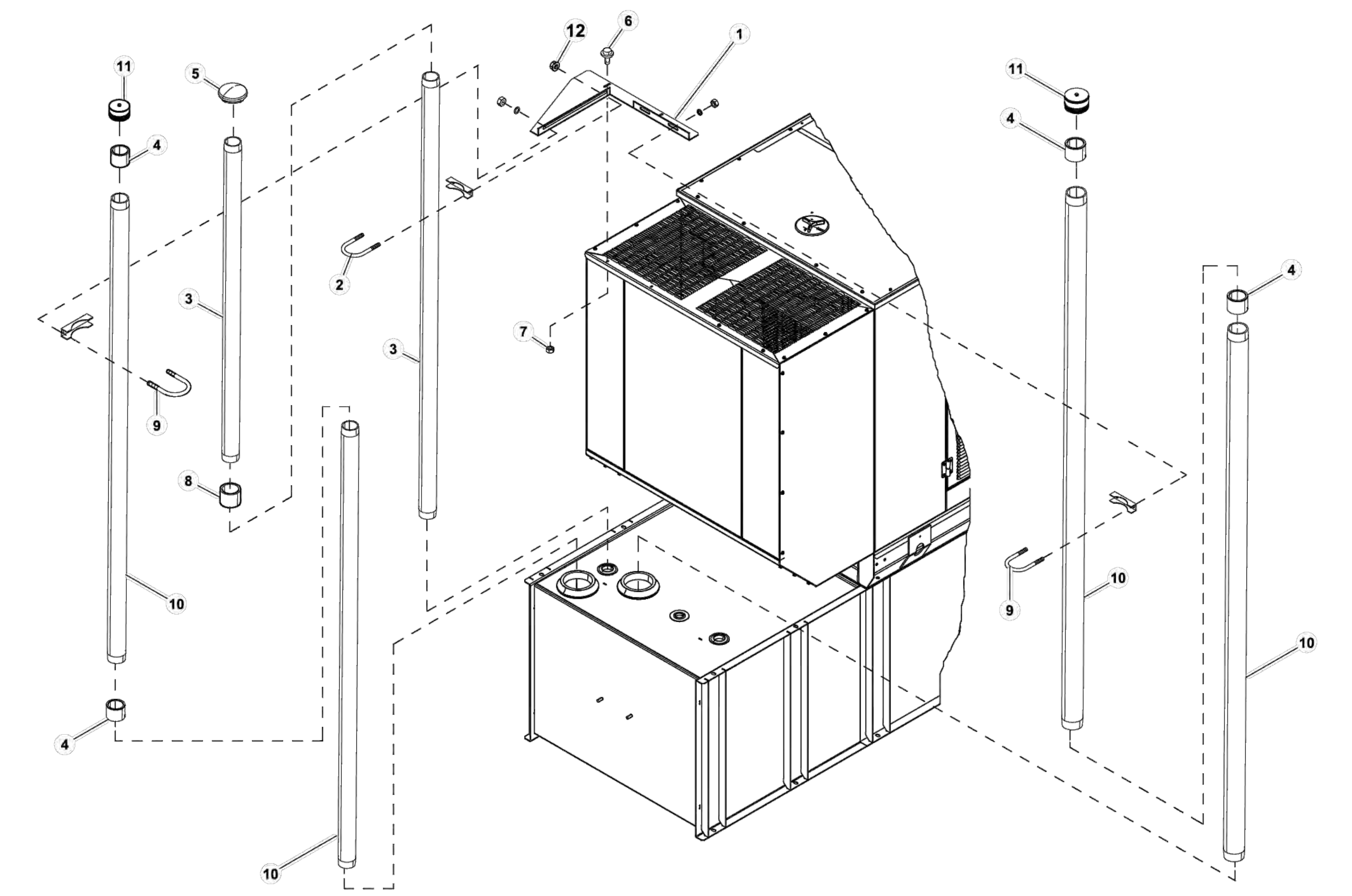
ENGINEER:
Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:
GENERATOR SPECIFICATIONS

SHEET NUMBER:
A-5.5

GROUP H



Revision : CN-0019649-W
Date : 9/4/18

Page 1 of 2

Exploded View : EV VENT EXT AGRP 2"3 ATT
Drawing No. : 0K9817A

EXPLODED VIEW: EV VENT EXT AGRP 2"3 ATT
DRAWING #:0K9817A

GROUP H

ITEM	PART#	QTY.	DESCRIPTION
(1)1	0G3036YST0R	1	BRACKET VENT EXT AGRP 2"3 ATT
2	0C7947	1	KIT, SADDLE AND BOLT 2 1/2"
3	0G3045	2	PIPE 2"VENT EXTENSION 72"LG
4	10000016676	4	COUPLING PIPE 3 ZINC
5	G021178	1	VENT OEM 2"
6	0C2454B	2	SCREW HWHT M6-1 X 30 W/MKS
7	G049813	2	NUT HEX M6-1.0 G8 CLEAR ZINC
8	068640B	1	COUPLING FULL 2-11.5 BLACK
9	0E4264	2	BOLT U 3/8-16 X 3.50" W/SADDLE
10	0H1454	4	PIPE NIPPLE 3"X72" SCH40 PNTBK
11	072989J	2	VENT CAP EMERG 3"NPT
12	G064101	2	NUT HEX FL WHIZ 3/8-16

NOTES (UNLESS OTHERWISE SPECIFIED)
(1) SHEET METAL PARTS LISTED IN THE BOM TABLE ARE REPRESENTING CENERIC PARTS (NO COLOR).
* MANUFACTURING: FOR CORRECT MATERIAL AND COLOR REFER TO AS400 BOM.
* CUSTOMER: WHEN ORDERING REPLACEMENT PARTS, ENTER BASE NUMBER (FIRST 6 DIGITS ONLY) IN THE SYSTEM FOR CORRECT MATERIAL AND COLOR. (FOR REFERENCE SEE GUIDELINE 0H7169).

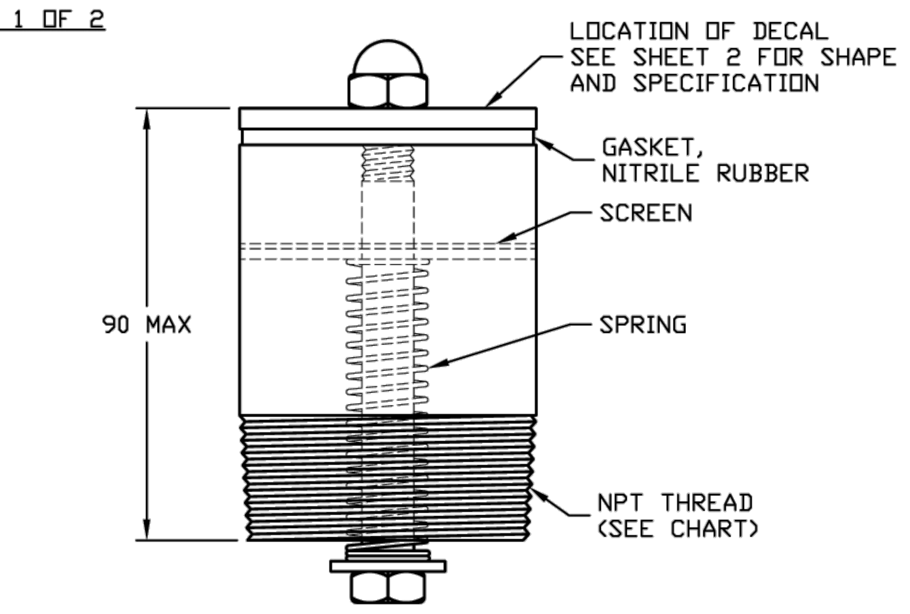
REVISION: CN-0019649-W
DATE: 9/5/18

Page 2 of 2

DO NOT SCALE

S-327

SHEET 1 OF 2



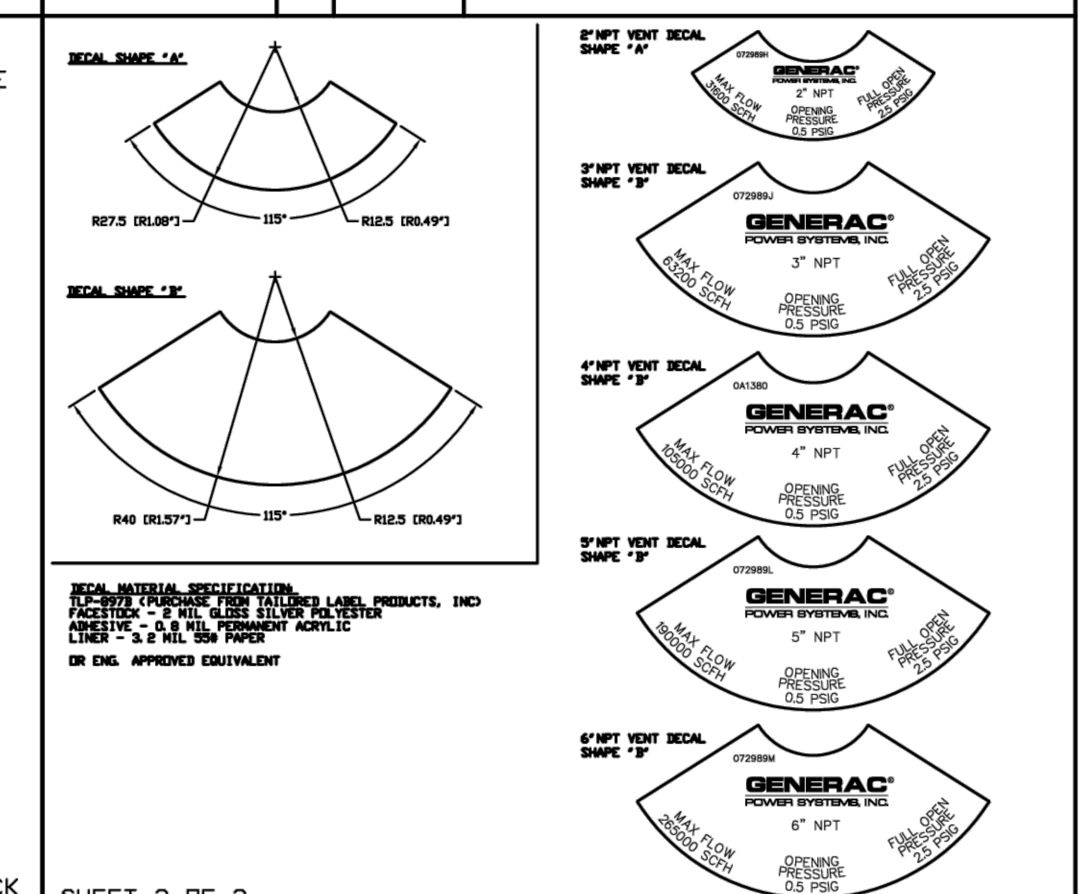
PART #	THREAD (NPT)	OPENING PRESSURE (PSIG)	FULL OPEN PRESSURE (PSIG)	MAX FLOW (SCFH)
072989H	2"	.5	2.5	31600
072989J	3"	.5	2.5	63200
0A1380	4"	.5	2.5	105000
072989L	5"	.5	2.5	190000
072989M	6"	.5	2.5	265000

FINISH: EMERGENCY VENT CAPS TO BE POWDER COATED SEMI-GLOSS BLACK
VENDOR: CR INDUSTRIES OR ENG. APPROVED EQUIVALENT

DRAWING TITLE: VENT CAPS, EMERGENCY
MATERIAL: STEEL
GENERAC POWER SYSTEMS
Eagle
P.O. BOX 8
WAUKESHA, WIS. 53187
FILE NAME: S-327.DWG SIZE A
DWN JRS DATE 1/2/03 MFG NA DATE NA EST. WT.
SCALE N.T.S. FIRST USE
CHKD TMM DATE 3/3/03 APPD AG DATE 3/7/03 FINAL WT.
DWG NO. S-327 REV
RELEASED FOR PRODUCTION BY A GILLETTE DATE 3/7/03

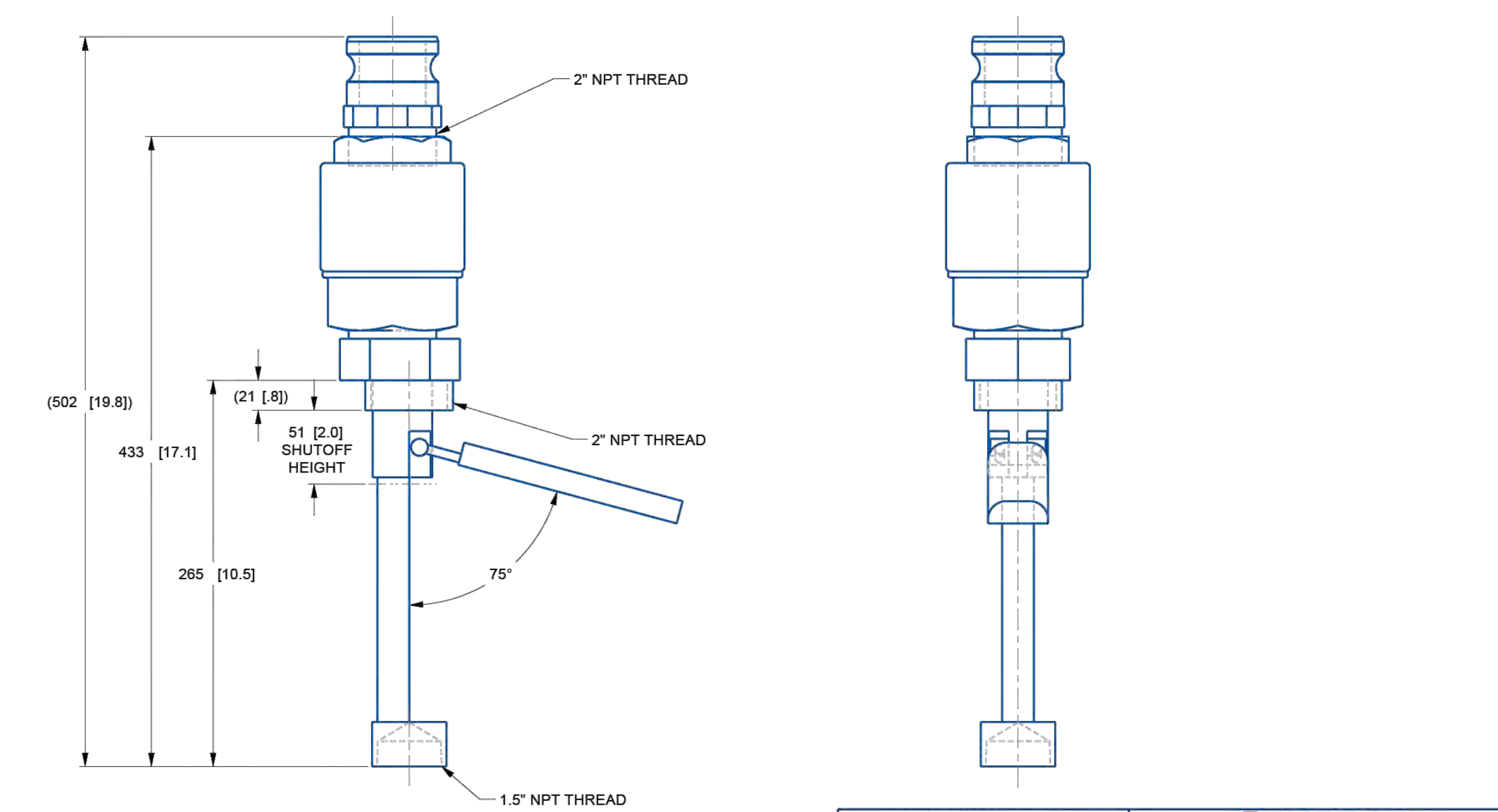
DO NOT SCALE

S-327



SHEET 2 OF 2

DRAWING TITLE: VENT CAPS, EMERGENCY
MATERIAL: STEEL
GENERAC POWER SYSTEMS
Eagle
P.O. BOX 8
WAUKESHA, WIS. 53187
FILE NAME: S-327.DWG SIZE A
DWN JRS DATE 1/2/03 MFG NA DATE NA EST. WT.
SCALE N.T.S. FIRST USE
CHKD TMM DATE 3/3/03 APPD AG DATE 3/7/03 FINAL WT.
DWG NO. S-327 REV
RELEASED FOR PRODUCTION BY A GILLETTE DATE 3/7/03

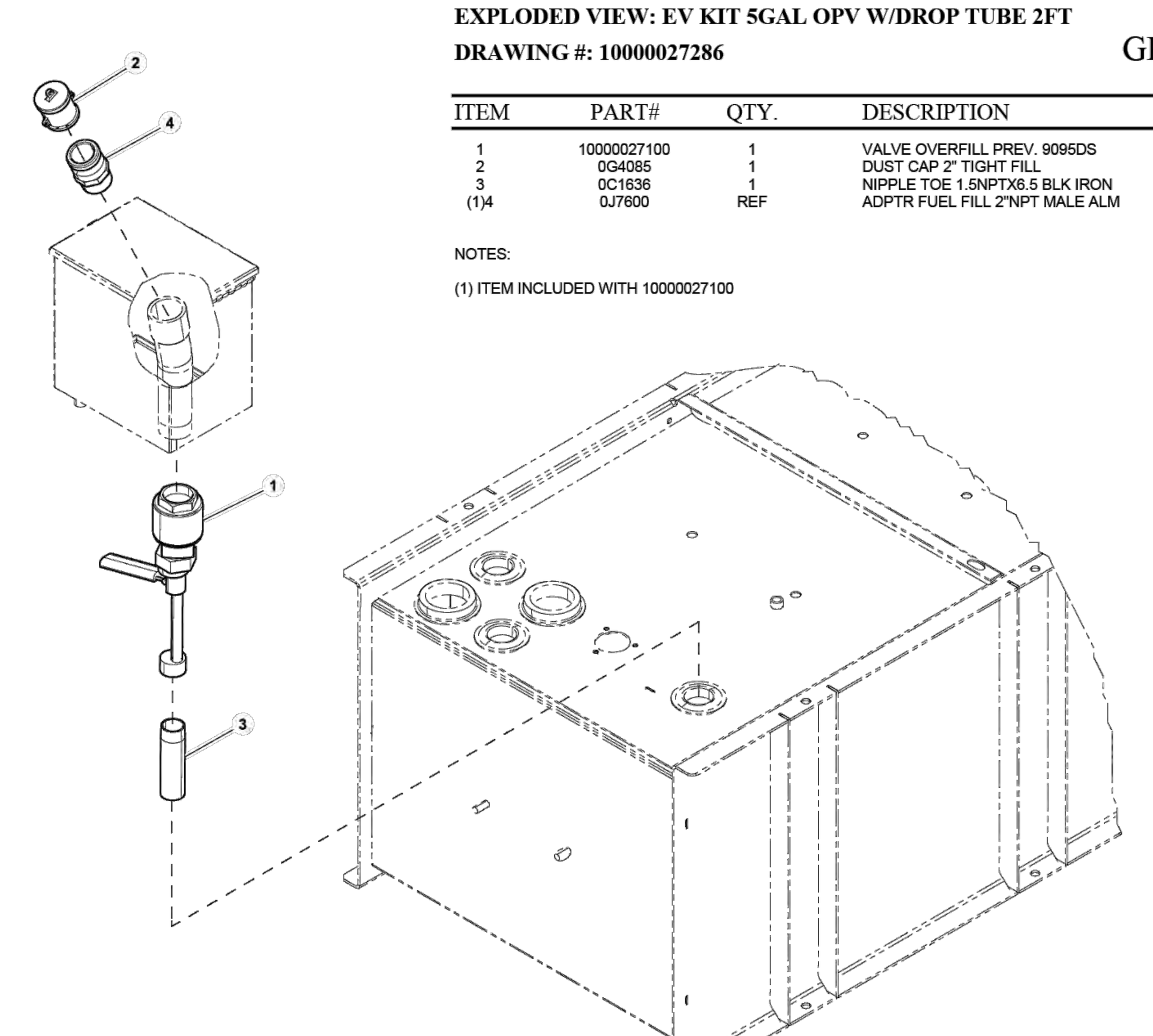


DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

NOTE:
1. MORRISON BROTHERS PART NUMBER 9095DS-0200 AV.
2. DIMENSIONS ARE IN MILLIMETERS [INCHES].

- A - RELEASED FOR PRODUCTION

GENERAC
TITLE: VALVE OVERFILL PREV. 9095DS
MATERIAL: SEE ABOVE
SIZE B CAGE NO N/A DWG NO 10000027100 REV A
SCALE 0.375 WT-KG 0.00 SHEET 1 of 1



EXPLODED VIEW: EV KIT 5GAL OPV W/DROP TUBE 2FT
DRAWING #: 10000027286

GROUP H

ITEM	PART#	QTY.	DESCRIPTION
1	10000027100	1	VALVE OVERFILL PREV. 9095DS
2	0G4085	1	DUST CAP 2" TIGHT FILL
3	0C1636	1	NIPPLE TOE 1.5NPTX6.5 BLK IRON
(1)4	0J7600	REF	ADPTR FUEL FILL 2"NPT MALE ALM

NOTES:

(1) ITEM INCLUDED WITH 10000027100

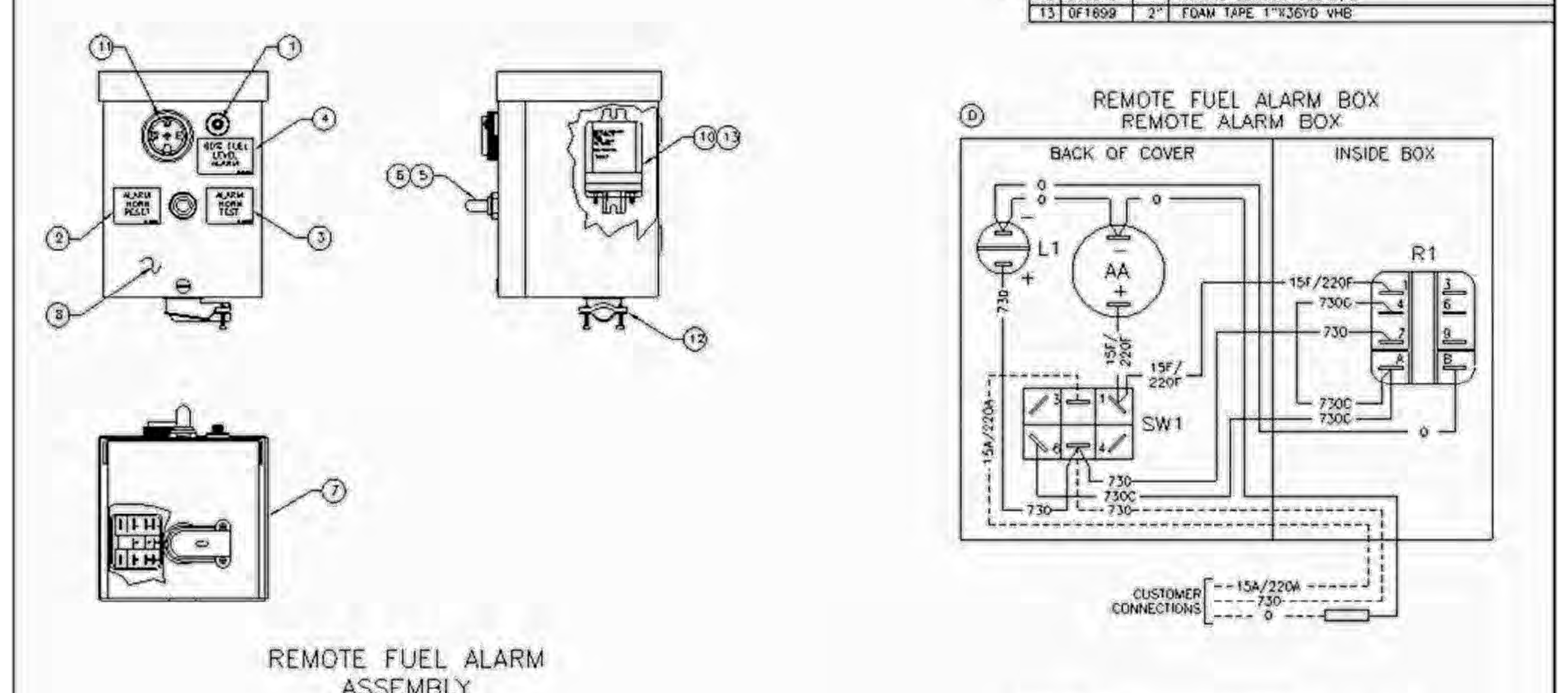
Revision : - A -
Date : 12/04/17

Page 1 of 2

Exploded View : EV KIT 5GAL OPV W/ DROP TUBE 2FT
Drawing No. : 10000027286

0F2908$

1	0C2163C	1	LED YEL WITH HOLDER
2	0F0099A	1	DECAL ALARM HORN RESET
3	0F0099B	1	DECAL ALARM HORN TEST
4	0F0099C	1	DECAL 90% FUEL LEVEL ALARM
5	0F2904	1	SWITCH,TOGGLE DPDT MOMENTARY
6	0F2905	1	BOOT TOGGLE SWITCH 15/32-32UNF
7	0F2906	1	ENCL NEMA 3R 6"H 4"W 4"D
8	0F3213	1	COVER,REMOTE ALARM 90% FUEL
9	0F4254	1	HARNESS, REMOTE ALARM 90% FUEL (NOT SHOWN)
10	063617	1	RELAY PNL 12VDC DPDT 10A@240VA
	081767	1	RELAY PNL 24VDC DPDT 10A
11	0C3053	1	PIEZO BUZZER PANEL MNT
12	060015	1	FITTING CONDUIT 90D 3/8"
13	0F1699	2"	FOAM TAPE 1"X36YD VHB



PART #	DESCRIPTION
0F2908	ASSY,REMOTE ALARM 90 % FUEL 12V
0F2908A	ASSY REMOTE ALARM 90 % FUEL 24V

DO NOT SCALE
ASSEMBLY, REMOTE ALARM 90% FUEL
0F2908$.DWG
0F2908$ E

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY,
PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
	02/25/26	PLANNING COMMS	T.T.
	12/18/25	PLANNING COMMS	S.V.
4	09/30/25	CLIENT REV	S.V.
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1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

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ENGINEER:

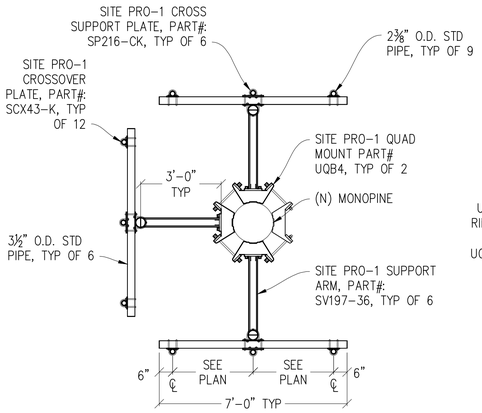
Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

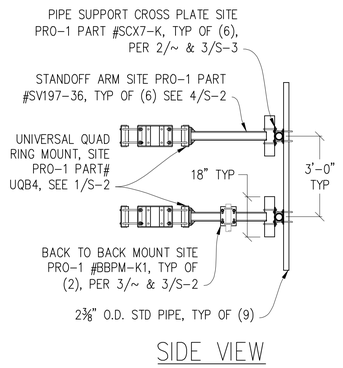
GENERATOR SPECIFICATIONS

SHEET NUMBER:

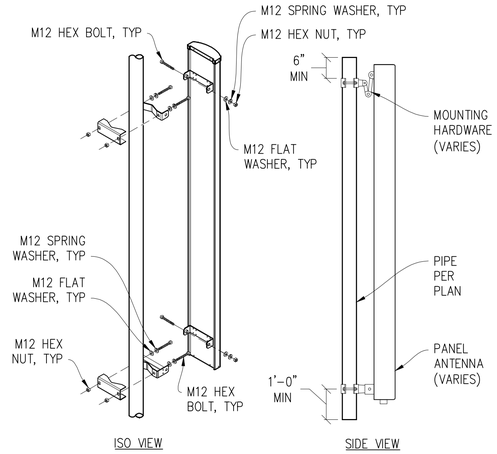
A-5.6



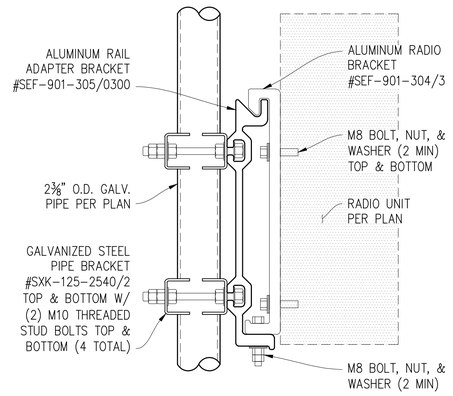
PLAN VIEW

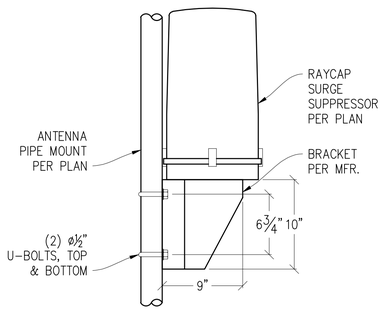


SIDE VIEW



ISO VIEW SIDE VIEW



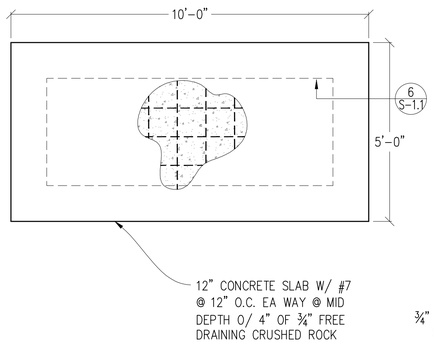


1 T-ARM ANTENNA MOUNT
⅜"=1'-0"

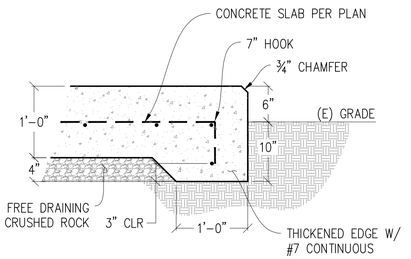
2 ANTENNA MOUNT
1"=1'-0"

3 RADIO UNIT MOUNTING
3"=1'-0"

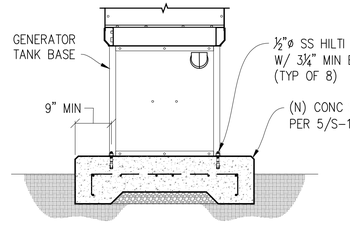
4 SURGE PIPE MOUNT
1½"=1'-0"



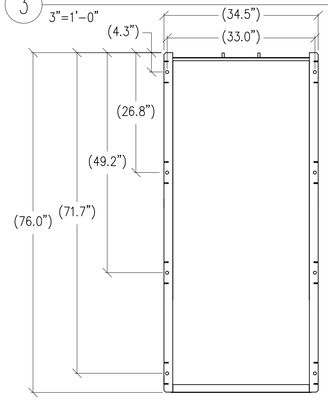
5 CONC. SLAB DETAIL
½"=1'-0" @ GENERATOR



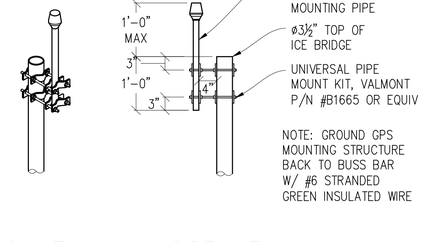
6 THICKENED EDGE SLAB
1"=1'-0"



7 GENERATOR ANCHORAGE
½"=1'-0"

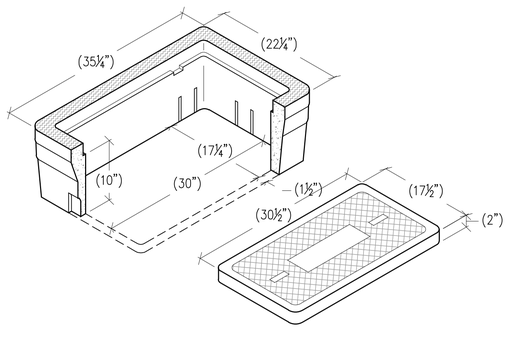


GENERATOR ANCHOR LOCATIONS
¾"=1'-0"

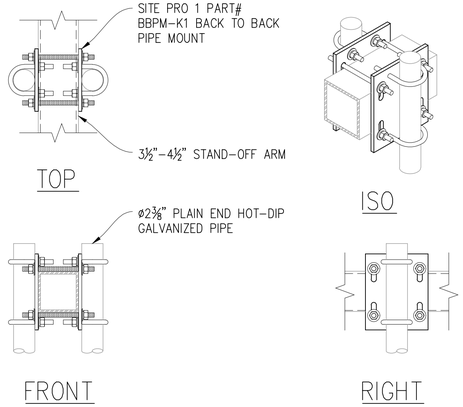


ISO VIEW SIDE VIEW

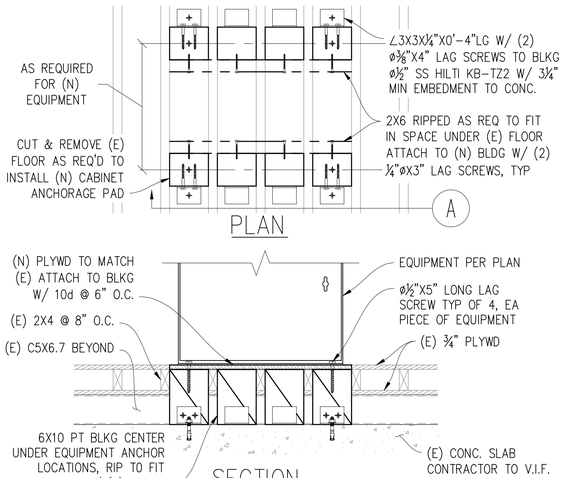
9 GPS MOUNT DETAIL
¾"=1'-0"



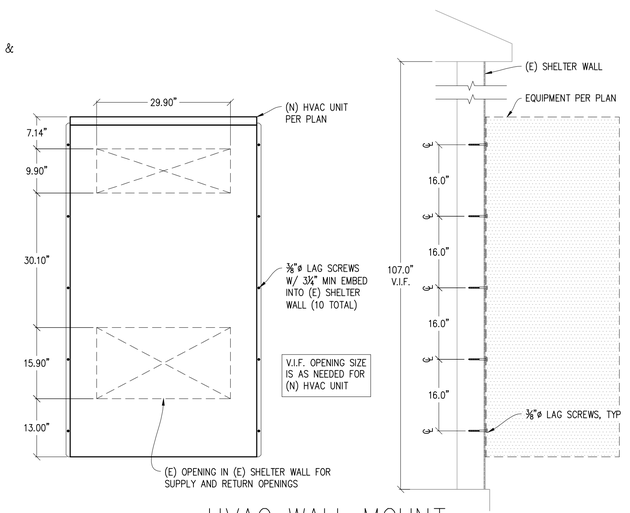
10 P36 SPLICE BOX
1"=1'



11 BACK TO BACK PIPE MOUNT
1½"=1'-0"



12 CABINET FLOOR BLKG DETAIL
1"=1'-0"



13 HVAC WALL MOUNT
1"=1'-0"

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

ISSUE STATUS

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1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER JAMES R. SPORE S6336 STRUCTURAL STATE OF CALIFORNIA

ENGINEER:

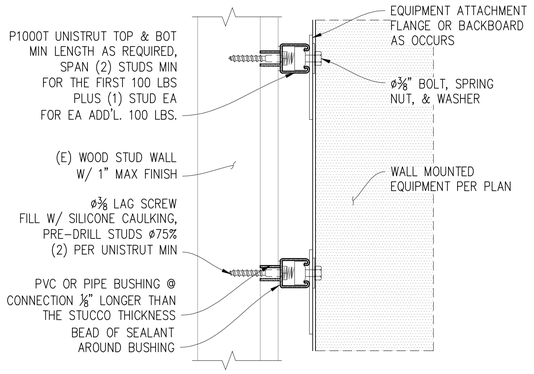
Streamline Engineering and Design Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Office: 916-660-1930 Cell: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

STRUCTURAL DETAILS

SHEET NUMBER:

S-1.1



1 EQUIPMENT MOUNTING DETAIL
3"=1'-0"

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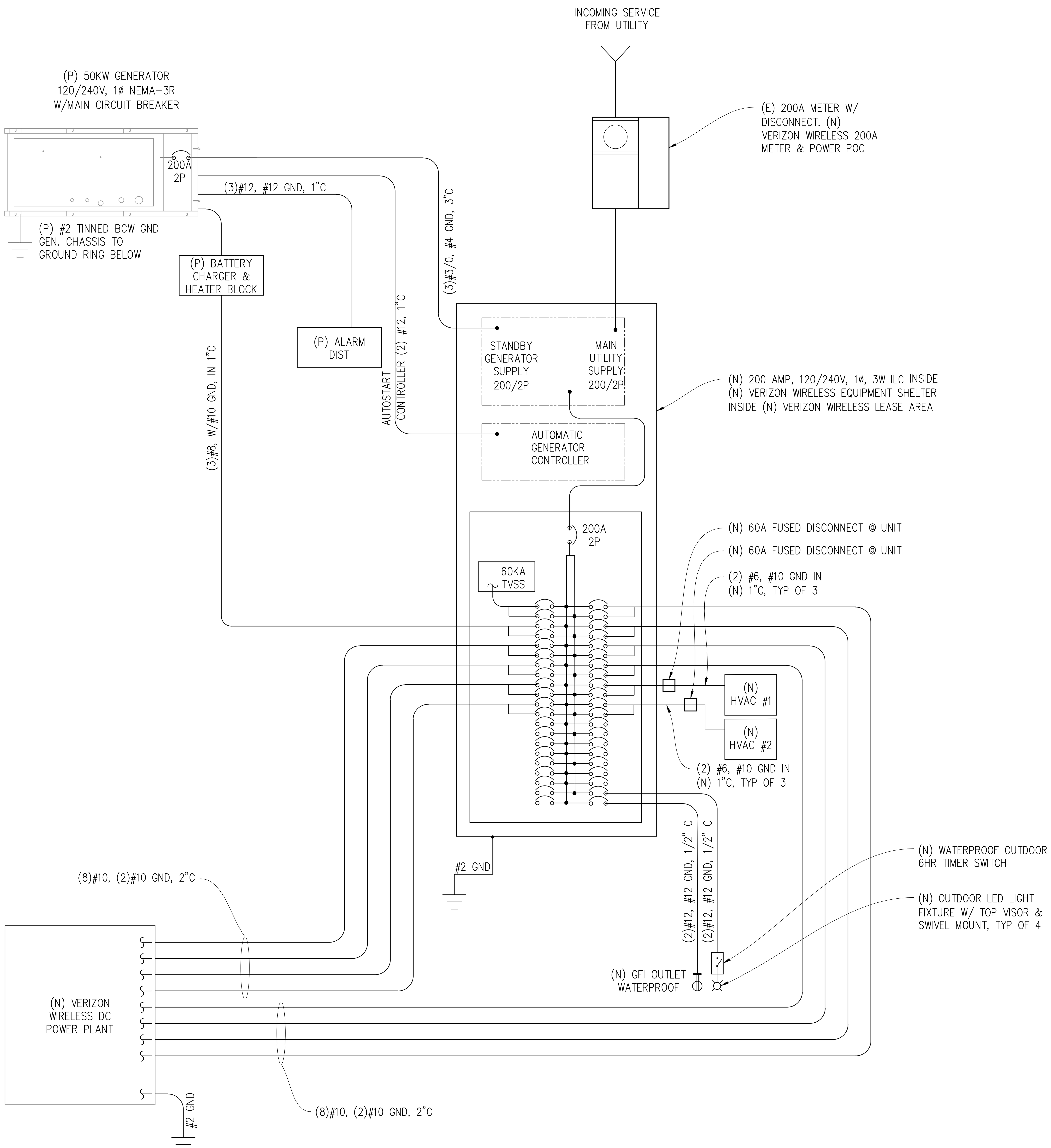
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

STRUCTURAL ⚠ DETAILS

SHEET NUMBER:

S-1.2



SINGLE LINE DIAGRAM

ELECTRIC LEGEND

- (M) METER
- CIRCUIT BREAKER
- SERVICE GROUND
- WIRED CONNECTION
- TIMER SWITCH, WATERPROOF
- OUTDOOR LIGHT
- GFI OUTLET, WATERPROOF

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE 2022 CEC AS WELL AS ALL ADOPTED STANDARDS, APPLICABLE STATE AND LOCAL CODES.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, AND PERFORM ALL TRENCHING AND BACKFILLING REQUIRED IN THE PLANS.
3. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER PLAN SPECIFICATIONS.
4. ALL CIRCUIT BREAKERS, FUSES, AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED WITH A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED.
5. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
6. ELECTRICAL WIRING SHALL BE COPPER #12 AWG MIN WITH TYPE THHN, THWN-2 OR THW-2, INSULATION RATED FOR 90°C DRY OR 70°C WET.
7. ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
8. ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
9. A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
10. WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE AND HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.
11. WHERE PLANS CALL FOR A NEW ELECTRICAL SERVICE, PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VERIFY PLAN DETAILS WITH THE UTILITY'S SERVICE PLAN & REQ'MTS INCLUDING SERVICE VOLTAGE, METER LOCATION, MAIN DISCONNECTING MEANS, AND AIC REQ'MT, AND SHALL OBTAIN CLARIFICATION FROM THE PROJECT ENGINEER ON ANY DEVIATIONS FOUND IN THESE PLANS.
12. WHERE THESE PLANS SHOW A DC POWER PLANT, THE INSTALLATION OPERATING AT LESS THAN 50 VDC UNGROUNDED, 2-WIRE, SHALL COMPLY WITH ARTICLE 720, AS FOLLOWS:
    A. POWER PLANT SHALL BE SUPPLIED BY THE WIRELESS CARRIER AS A PULL-TAG ITEM AND INSTALLED BY THE CONTRACTOR.
    B. CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG COPPER MIN, CONDUCTORS FOR BRANCH CIRCUITS SUPPLYING MORE THAN ONE APPLIANCE SHALL BE 10 AWG CU MIN; CONTRACTOR SHALL SIZE CONDUCTORS BASED ON MFGR'S DATA FOR THE APPLIANCES SERVED.
    C. THERE ARE NO DC RECEPTACLES OR LUMINARIES ALLOWED ON THIS PROJECT. ALL CIRCUITS SHALL ORIGINATE AT AN INTEGRATED DOUBLE LUG TAP OR SOCKET TERMINATION ON AN INTEGRATED DC CIRCUIT BREAKER AT AN INDIVIDUAL RECTIFIER MODULE AND TERMINATE AT THE SPECIALIZED LUG ON THE RESPECTIVE APPLIANCE AS A SINGLE RUN OF WIRE WITHOUT SPLICES. ALL DC WIRING SHALL BE LABELED AT THE DC PLANT WITH THE APPLIANCE SERVED AND THE DC VOLTAGE.
    D. ALL CABLING SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND SUPPORTED BY BUILDING STRUCTURE, EG. (N) CABLE TRAY OVERHEAD, IN SUCH A MANNER THAT THE CABLE WILL NOT BE DAMAGED BY NORMAL USE.

(N) PANEL SCHEDULE

NAMEPLATE : PANEL A			SC LEVEL : 65,000				VOLTS: 120V/240V, 1ø		
LOCATION : INSIDE							BUS AMPS: 200A		
MOUNTING : WALL							MAIN CB: 200A		
ØA LOAD VA	ØB LOAD VA	LOAD DESCRIPTION	BKR AMP/ POLE	CIRCUIT NO		BKR AMP/ POLE	LOAD DESCRIPTION	ØA LOAD VA	ØB LOAD VA
30		SURGE ARRESTOR	60/2	1	2	30/2	(N) DC POWER PLANT	1320	
	30	" "	" "	3	4	" "	" "		1320
3840		(N) BATTERY CHARGER & HTR	40/2	5	6	30/2	" "	1320	
	3840	" "	" "	7	8	" "	" "		1320
1320		(N) DC POWER PLANT	30/2	9	10	30/2	" "	1320	
	1320	" "	" "	11	12	" "	" "		1320
1320		" "	30/2	13	14	30/2	" "	1320	
	1320	" "	" "	15	16	" "	" "		1320
1320		" "	30/2	17	18	60/2	(N) AC UNIT #1	3684	
	1320	" "	" "	19	20	" "	" "		3684
1320		" "	30/2	21	22	60/2	(N) AC UNIT #2	3684	
	1320	" "	" "	23	24	" "	" "		3684
		BLANK	–	25	26	–	BLANK		
		" "	–	27	28	–	" "		
		" "	–	29	30	–	" "		
		" "	–	31	32	–	" "		
		" "	–	33	34	–	" "		
		" "	–	35	36	–	" "		
		" "	–	37	38	–	" "		
		" "	–	39	40	20/1	LIGHT		300
		" "	–	41	42	20/1	GFI RECEPTACLE	180	
9150	9150	PHASE TOTALS					PHASE TOTALS	12648	12648
TOTAL VA =	43596	TOTAL AMPS =	182						

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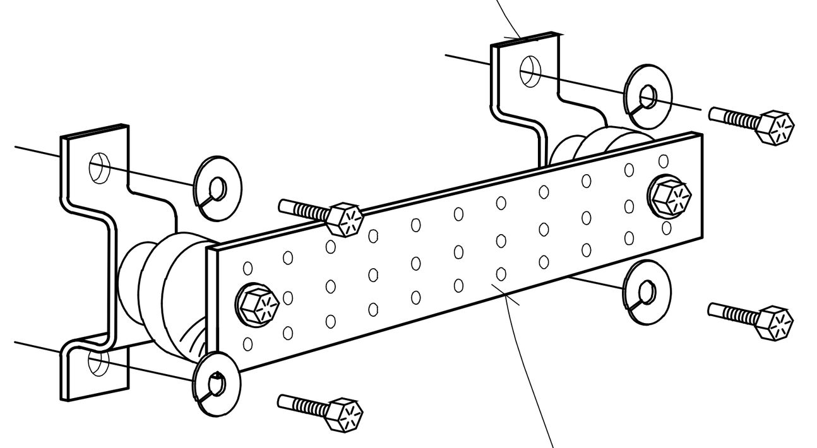
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

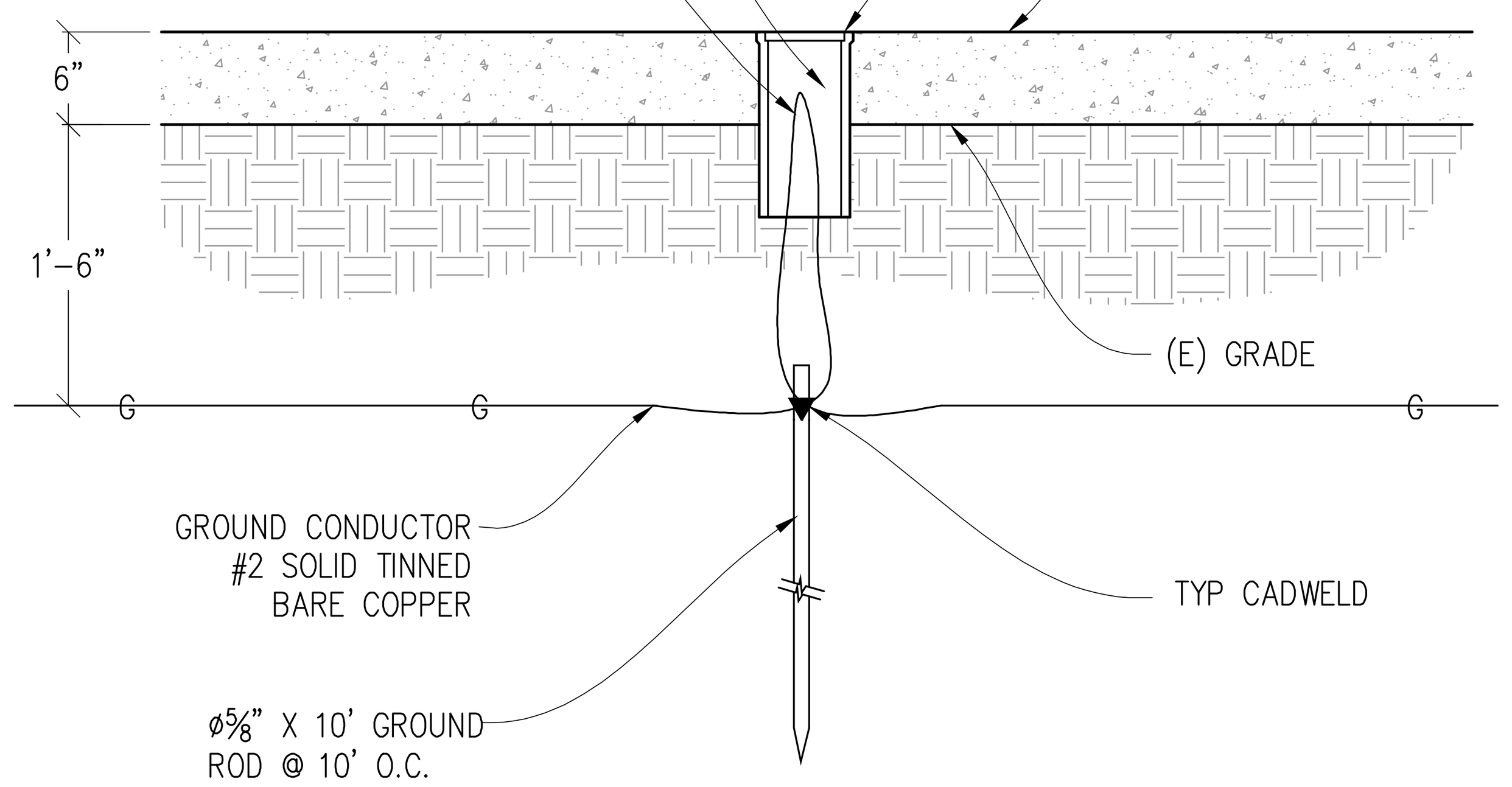
UTILITY SITE PLAN

SHEET NUMBER:

E-1.1



1 GROUND BUSS DETAIL
NOT TO SCALE



2 TEST WELL DETAIL
1"=1'

NOTE: THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS. THE GROUND RODS SHALL BE ⅝" X 10' COPPER CLAD STEEL SPACED AT 10' INTERVALS MAX. RODS SHALL BE INTERCONNECTED WITH #2 SOLID TINNED BARE COPPER GROUND WIRE BURIED A MINIMUM 18" BELOW GRADE. AN ONSITE INSPECTION BY THE OWNER SHALL BE REQUIRED PRIOR TO ANY BACKFILL.

GROUNDING LEGEND

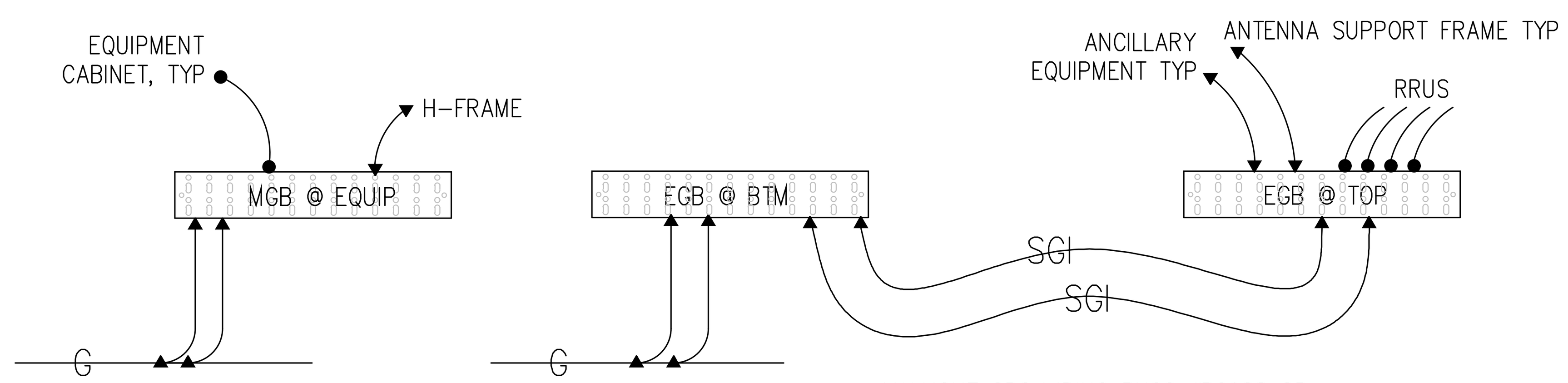
- ● MECHANICAL CONNECTION
- ▼ EXOTHERMIC CADWELD
- TYP. CADWELD INSPECTION WELL
- TYP ⅝" DIA. X 10'-0" LONG COPPER CLAD GROUND ROD @ 10' O.C. MAX & 18" MIN BELOW FINISH GRADE
- GATE GROUNDING STRAP
- —G— TYP #2 TINNED BCW UNDERGROUND GND RING @ 18" MIN BELOW FINISH GRADE
- —SGI— GROUND WIRE #2 STRANDED GREEN INSULATED WIRE

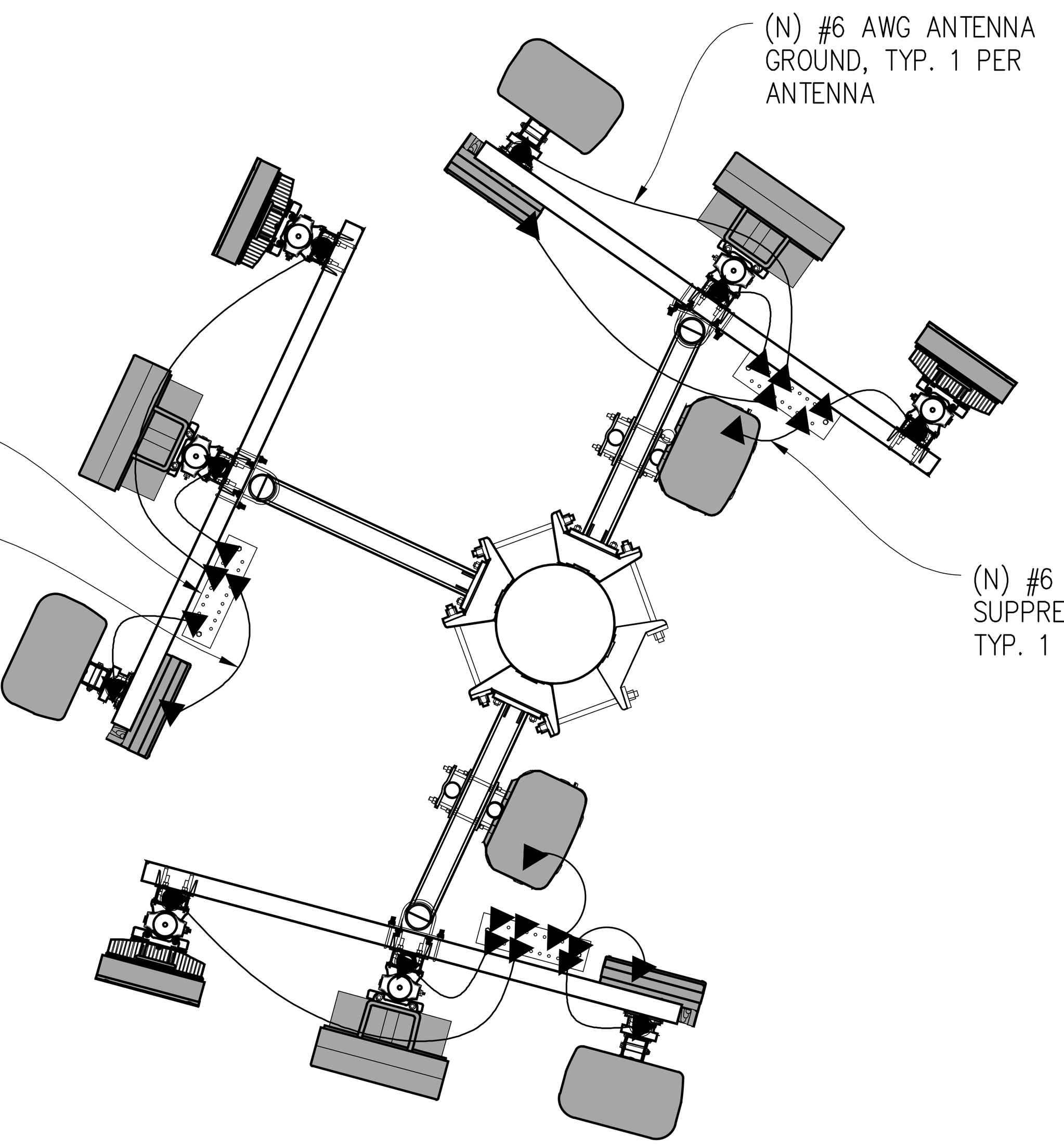
GROUNDING NOTES

1. GROUNDING SHALL COMPLY WITH CEC ARTICLE 250.
2. USE #2 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
3. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
4. EXPOSED GROUNDING CONNECTIONS SHALL BE MADE WITH BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR EXOTHERMIC WELDS AS SPECIFIED IN THE PLANS.
5. CONNECTIONS TO EQUIPMENT SHALL BE MADE USING STAINLESS STEEL HARDWARE.
6. APPLY BUTYL & ELECTRICAL TAPE OVER COLD SHRINK AT ALL LOCATIONS FOR WEATHER PROOFING OVER COAX GROUND KITS.
7. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS WITH STAR WASHERS AND NO-OX OR EQUIVALENT PLACED BETWEEN CONNECTOR AND GROUND BAR.
8. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLES. ALWAYS MAKE A 12" RADIUS BEND, HOWEVER, #6 WIRE CAN BE BENT AT A 6" RADIUS WHEN NECESSARY.
9. THE SYSTEM GROUND RESISTANCE MUST BE 10 OHMS OR LESS. TO ACHIEVE THIS LEVEL OF RESISTANCE THE CONTRACTOR SHALL PURSUE ONE OF THE FOLLOWING FOUR OPTIONS:

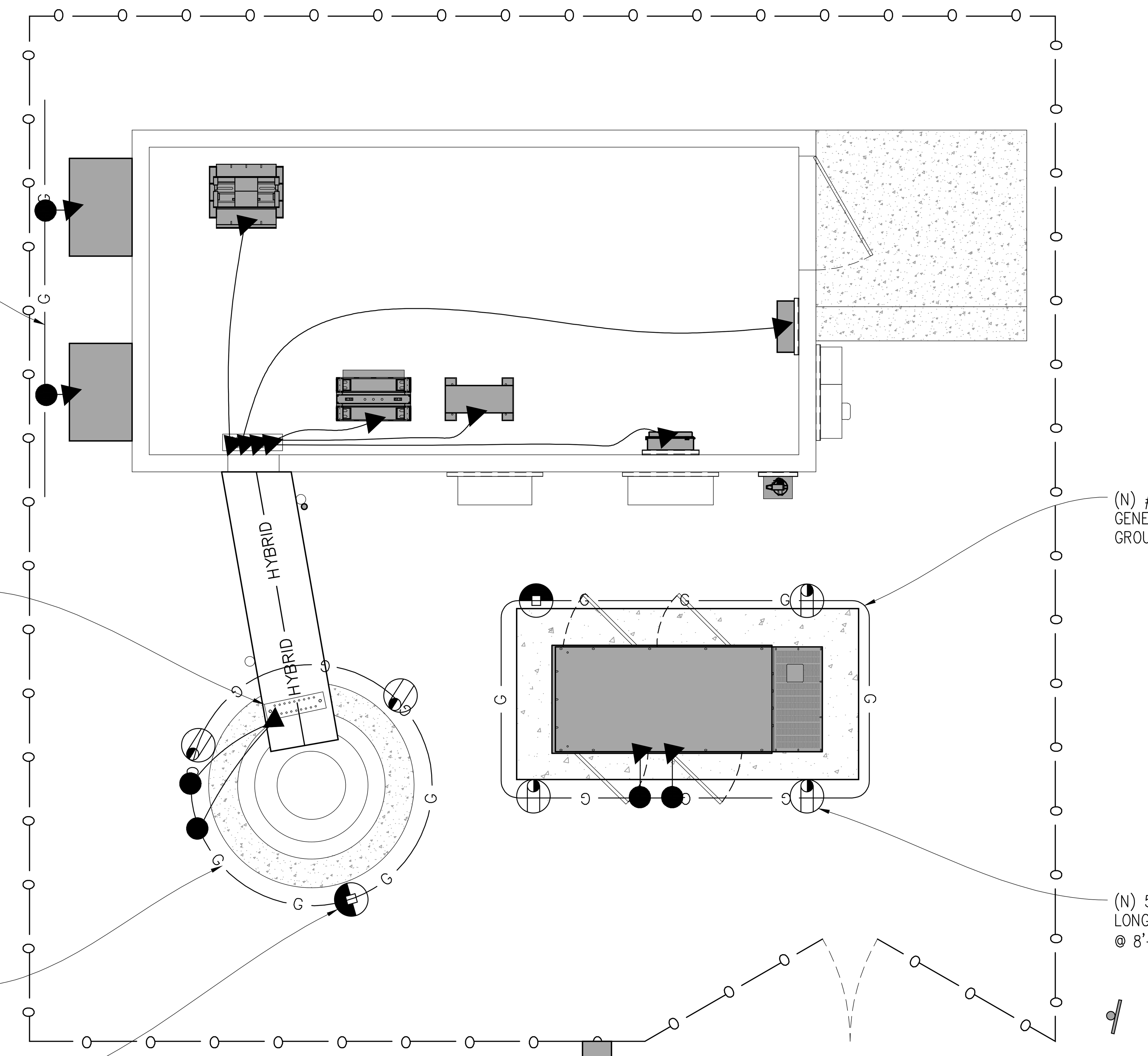
   A. CONNECT TO EXISTING GROUNDING SYSTEMS
   B. CONNECT TO BUILDING STEEL COLUMNS
   C. INSTALL A NEW GROUNDING SYSTEM

   UPON COMPLETION OF THE GROUNDING INSTALLATION THE CONTRACTOR SHALL EMPLOY AN OWNER APPROVED 3RD PARTY TO CONDUCT A "FALL OF POTENTIAL" TEST AND SUBMIT A REPORT OF SUCH TEST FOR APPROVAL TO EITHER THE OWNER OR CONSTRUCTION MANAGER.





ANTENNA GROUNDING PLAN



EQUIPMENT GROUNDING PLAN

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY,
PLACERVILLE, CA 95667

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID:	5000940687
PROJECT ID:	17120113
DRAWN BY:	C. COLSTON
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
△2	02/25/26	PLANNING COMMS	T.T.
△1	12/18/25	PLANNING COMMS	S.V.
4	09/30/25	CLIENT REV	S.V.
3	09/25/25	CLIENT REV	T.T.
2	02/12/24	CD 100%	S.D.
1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER
JAMES R. SPORE
S6336
STRUCTURAL
STATE OF CALIFORNIA

ENGINEER:

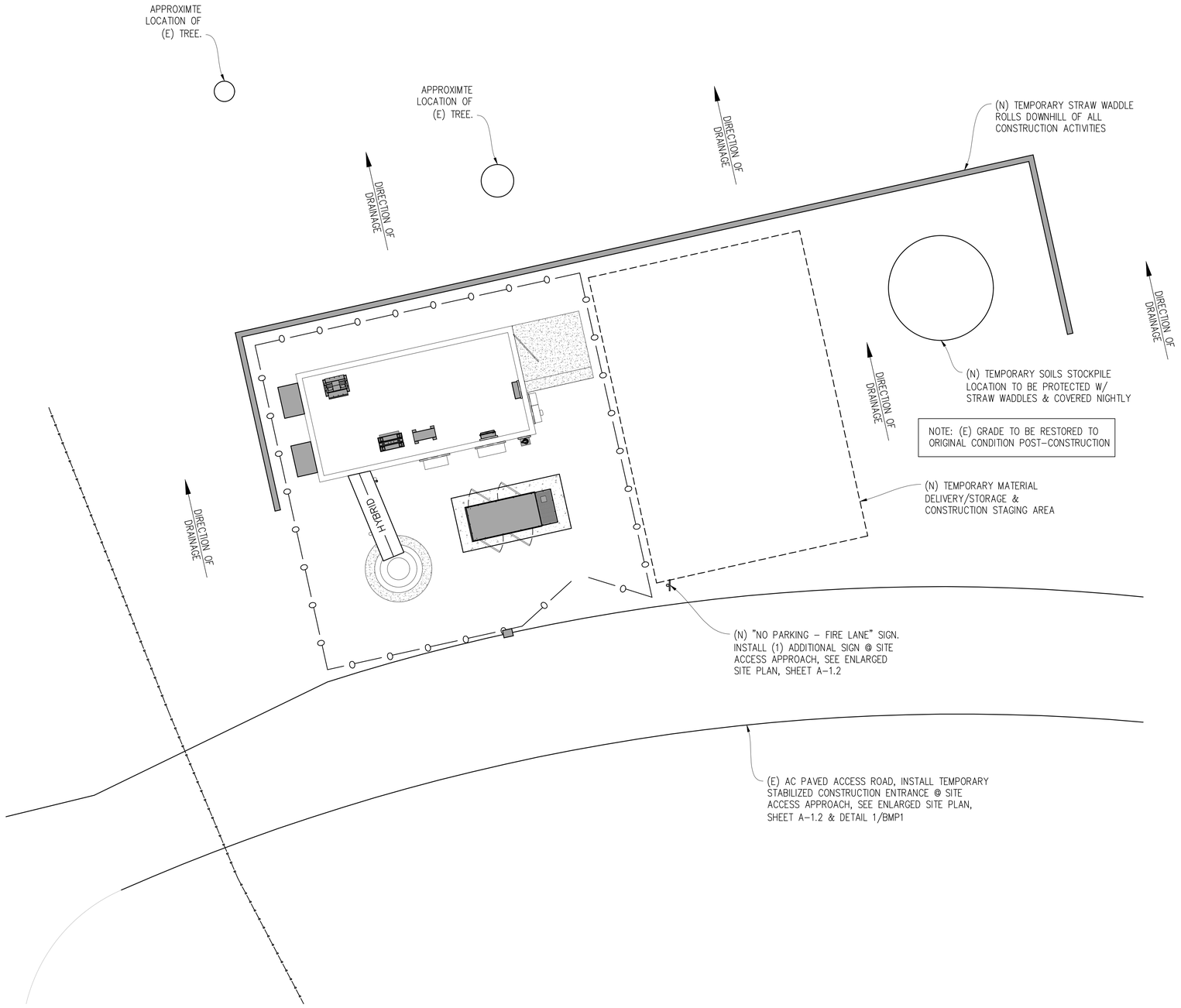
Streamline Engineering and Design, Inc.
3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:

GROUNDING PLAN & DETAILS

SHEET NUMBER:

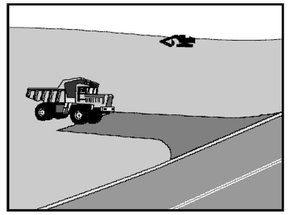
E-1.2



BMP PLAN
½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

STABILIZED CONSTRUCTION ENTRANCE



NOTES:

1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. SEDIMENT DEPOSITED ON THE ROADWAY MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM. SEE TYPE 1 AND TYPE 2 DETAILS.

2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
   A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.

   B. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN >3" TO <6" CRUSHED AGGREGATE WITH LENGTH, WIDTH & THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.

3. ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.

4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

   A. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
   B. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
   C. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

1 STABILIZED ENTRANCE/EXIT
NO SCALE

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY,
PLACERVILLE, CA 95667

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verizon

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2	02/12/24	CD 100%	S.D.
1	02/06/24	CLIENT REV	S.D.
0	01/11/24	CD 90%	C.T.C

Licensee:

REGISTERED PROFESSIONAL ENGINEER JAMES R. SPORE S6336 STRUCTURAL STATE OF CALIFORNIA

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.

ENGINEER:

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Contact: Kevin Savage Phone: 916-660-1940
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

SHEET TITLE:
BMP PLAN & DETAIL

SHEET NUMBER:
BMP1

BEST MANAGEMENT PRACTICES TABLE

BEST MANAGEMENT PRACTICES	LOCATION	SCHEDULE IMPLEMENTATION	MAINTENANCE SCHEDULE
PRESERVING EXISTING VEGETATION	AROUND PERIMETER OF PROJECT SITE	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	EDUCATE EMPLOYEES AND SUBCONTRACTORS REGARDING IMPORTANCE OF MAINTAINING EXISTING VEGETATION TO PREVENT EROSION AND FILTER OUT SEDIMENT IN RUNOFF FROM DISTURBED AREAS ON THE CONSTRUCTION SITE. INSPECT SITE PERIMETER MONTHLY TO VERIFY THE OUTSIDE VEGETATION IS NOT DISTURBED.
PROTECT GRADED AREAS AND SLOPES FROM WASHOUT AND EROSION	THROUGHOUT PROJECT SITE	CONTINUOUS	INSPECT GRADED AREAS AND SLOPES ON AT LEAST A MONTHLY BASIS TO CHECK FOR EROSION. GRADE TRIBUTARY AREAS OR INSTALL SAND DIKES AS NECESSARY TO PREVENT EROSION.
GRAVEL FILTER	ALONG FLOW LINES OF UNPAVED ROADWAYS WITHIN SITE	IN PLACE CONTINUOUSLY UNTIL ROADWAYS ARE PAVED	INSPECT AFTER EACH STORM. REMOVE ONSITE SEDIMENT DEPOSITED BEHIND BERM OR BARRIER TO MAINTAIN EFFECTIVENESS.
BAG INLET FILTER	INLETS TO THE STORM DRAINAGE SYSTEM	CONTINUOUS UNTIL LANDSCAPING IS IN PLACE	INSPECT WEEKLY AND AFTER EACH STORM. REMOVE SEDIMENT AND DEBRIS BEFORE ACCUMULATION HAVE REACHED ONE THIRD THE DEPTH OF THE BAG. REPAIR OR REPLACE INLET FILTER BAG AS SOON AS DAMAGE OCCURS.
PINE NEEDLE ROLLS	SEE NOTE 3 OF EROSION & CONTROL NOTES	CONTINUOUS	INSPECT AFTER EACH STORM. REMOVE SEDIMENT DEPOSITED BEHIND FIBER ROLLS WHENEVER NECESSARY TO MAINTAIN EFFECTIVENESS.
HYDROSEEDING	3:1 SLOPES	IN PLACE DURING BY SEPT. 15	INSPECT SLOPES ON AT LEAST A MONTHLY BASIS TO CHECK FOR EROSION. IF EROSION IS NOTED, SPREAD STRAW MULCH OVER AFFECTED AREAS.
STABILIZED CONSTRUCTION ENTRANCE	ENTRANCES TO SITE FROM PUBLIC ROADWAYS	CONTINUOUS, UNTIL ENTRANCES AND ONSITE ROADWAYS ARE PAVED	INSPECT ON A MONTHLY BASIS AND AFTER EACH RAINFALL. ADD AGGREGATE BASE MATERIAL WHENEVER NECESSARY TO PREVENT SEDIMENT FROM BEING TRACKED INTO PUBLIC STREET.
WIND EROSION CONTROL PRACTICES	WHEREVER NECESSARY THROUGHOUT PROJECT SITE	CONTINUOUS UNTIL GRADING IS COMPLETED AND SOILS HAVE STABILIZED	INSPECT SITE DURING WINDY CONDITIONS TO IDENTIFY AREAS WHERE WIND AND EROSION IS OCCURRING AND ABATE EROSION AS NECESSARY.
GOOD HOUSEKEEPING MEASURES	THROUGHOUT PROJECT SITE	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A MONTHLY BASIS TO VERIFY GOOD HOUSEKEEPING PRACTICES ARE BEING IMPLEMENTED.
PROPER CONSTRUCTION MATERIAL STORAGE	DESIGNATED AREA	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A WEEKLY BASIS TO VERIFY THAT CONSTRUCTION MATERIALS ARE STORED IN A MANNER WHICH COULD NOT CAUSE STORM WATER POLLUTION.
PROPER CONSTRUCTION WASTE STORAGE AND DISPOSAL INCLUDING	DESIGNATED COLLECTION AREA AND CONTAINERS	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A WEEKLY BASIS TO ASSURE WASTE IS STORED PROPERLY AND DISPOSED OF AT LEGAL DISPOSAL SITE, DAILY.
CONCRETE SPILL CLEANUP PAINT & PAINTING SUPPLIES	MATERIAL HANDLING AREAS	IMMEDIATELY AT TIME OF SPILL	INSPECT MATERIAL HANDLING AREAS ON AT LEAST A MONTHLY BASIS TO VERIFY PROPER SPILL CLEANUP.
VEHICLE FUELING, MAINTENANCE & CLEANING	DESIGNATED AREA WITH SECONDARY CONTAINMENT	CONTINUOUS	KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ON SITE & INSPECT ON REGULAR SCHEDULE.
STREET AND STORM DRAINAGE FACILITY MAINTENANCE DEFINITIONS	STREETS AND STORM DRAINAGE FACILITIES	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	MAINTAIN STORM DRAINAGE FACILITIES AND PAVED STREETS CLEAR OF SEDIMENT AND DEBRIS.

1. WET SEASON: ENTIRE PERIOD BETWEEN OCTOBER 1 THROUGH APRIL 30. CONTRACTOR SHALL ALSO IMPLEMENT WET SEASON MEASURES IF WET WEATHER IS EXPECTED DURING THE DRY SEASON

2. PHASES OF GRADING

INITIAL: WHEN CLEARING AND GRUBBING ACTIVITIES OCCUR.

ROUGH: WHEN CUT AND FILL ACTIVITIES OCCUR AND THE SITE IMPROVEMENTS ARE CONSTRUCTED, INCLUDING UNDERGROUND PIPING, STREETS, SIDEWALKS, AND OTHER IMPROVEMENTS.

FINAL: WHEN FINAL ELEVATION IS SET, AND SITE IMPROVEMENTS ARE COMPLETED AND READY FOR CITY ACCEPTANCE.

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL FOLLOW TYPICAL GUIDELINES FOR GRADING, EROSION AND SEDIMENT CONTROL FOR THE MEASURES SHOWN OR STATED ON THESE PLANS.
2. CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR THE WINTER MONTHS PRIOR TO OCTOBER 1.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.
4. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BEFORE AND AFTER ALL STORMS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
6. CONTRACTOR SHALL MAINTAIN A LOG AT THE SITE OF ALL INSPECTIONS OR MAINTENANCE OF BMPS, AS WELL AS, ANY CORRECTIVE CHANGES TO THE BMPS OR EROSION AND SEDIMENT CONTROL PLAN.
7. IN AREAS WHERE SOIL IS EXPOSED, PROMPT REPLANTING WITH NATIVE COMPATIBLE, DROUGHT-RESISTANT VEGETATION SHALL BE PERFORMED. NO AREAS WILL BE LEFT EXPOSED OVER THE WINTER SEASON.
8. THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF GRADING. LOCATION OF THE ENTRANCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE GRADING OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE. THE STABILIZED CONSTRUCTION ENTRANCE SHALL REMAIN IN PLACE UNTIL THE ROAD BASE ROCK COURSE IS COMPLETED.
9. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEPT AT THE END OF EACH WORKING DAY OR AS NECESSARY.
10. CONTRACTOR SHALL PLACE GRAVEL BAGS AROUND ALL NEW DRAINAGE STRUCTURE OPENINGS IMMEDIATELY AFTER THE STRUCTURE OPENING IS CONSTRUCTED. THESE GRAVEL BAGS SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.
11. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
12. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
13. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
14. CONTRACTOR SHALL IMPLEMENT HOUSEKEEPING PRACTICES AS FOLLOWS:

A. SOLID WASTE MANAGEMENT:
CONTRACTOR SHALL PLACE ALL SOLID WASTE MATERIALS IN CONTRACTOR'S TRUCKS AND HAUL OFF SITE TO APPROVED SOLID WASTE RECEPTACLES AT CLOSE OF EACH BUSINESS DAY AND NO STORAGE OF SOLID WASTE ONSITE IS ALLOWED.

B. MATERIAL DELIVERY AND STORAGE:
PROVIDE A DESIGNATED MATERIAL STORAGE AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. STORE MATERIAL ON PALLETS AND PROVIDE COVERING FOR SOLUBLE MATERIALS. RELOCATE STORAGE AREA INTO BUILDING SHELL WHEN POSSIBLE. INSPECT AREA WEEKLY

C. CONCRETE WASTE:
PROVIDE A DESIGNATED AREA FOR A TEMPORARY PIT TO BE USED FOR CONCRETE TRUCK WASH-OUT. DISPOSE OF HARDENED CONCRETE OFFSITE. AT NO TIME SHALL A CONCRETE TRUCK DUMP ITS WASTE AND CLEAN ITS TRUCK INTO THE LOCAL STORM DRAINS VIA CURB AND GUTTER. INSPECT DAILY TO CONTROL RUNOFF, AND WEEKLY FOR REMOVAL OF HARDENED CONCRETE.

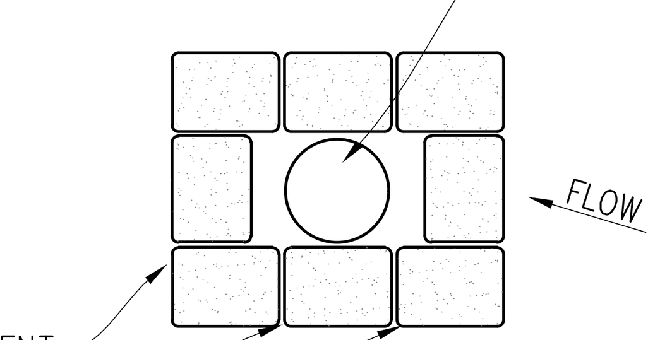
D. PAINT AND PAINTING SUPPLIES:
PROVIDE INSTRUCTION TO EMPLOYEES AND SUBCONTRACTORS REGARDING REDUCTION OF POLLUTANTS INCLUDING MATERIAL STORAGE, USE, AND CLEAN UP. INSPECT SITE WEEKLY FOR EVIDENCE OF IMPROPER DISPOSAL.

E. VEHICLE FUELING, MAINTENANCE AND CLEANING:
PROVIDE A DESIGNATED FUELING AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. DO NOT ALLOW MOBILE FUELING OF EQUIPMENT. PROVIDE EQUIPMENT WITH DRIP PANS. RESTRICT ONSITE MAINTENANCE AND CLEANING OF EQUIPMENT TO A MINIMUM. INSPECT AREA WEEKLY.

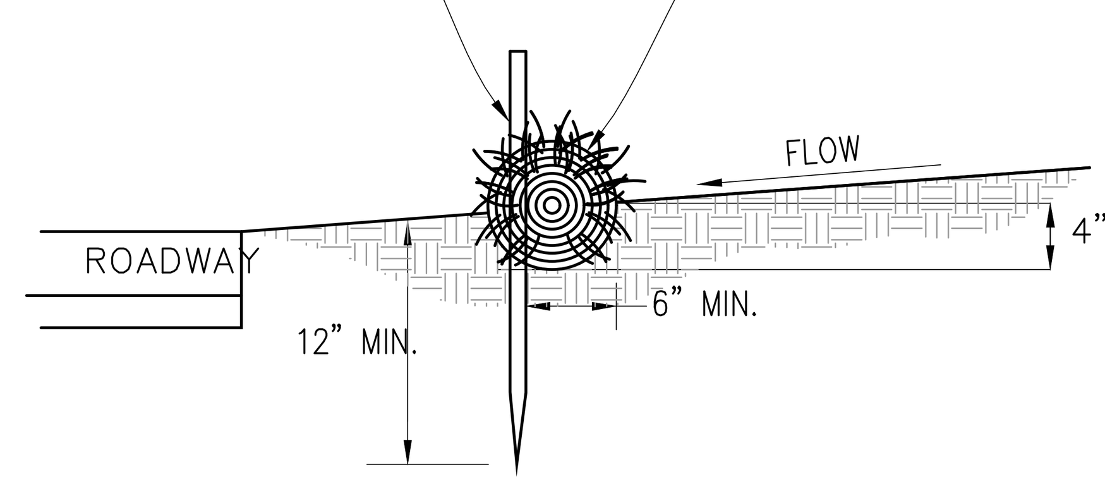
F. HAZARDOUS WASTE MANAGEMENT:
PREVENT THE DISCHARGE OF POLLUTANTS FROM HAZARDOUS WASTES TO THE DRAINAGE SYSTEM THROUGH PROPER MATERIAL USE, WASTE DISPOSAL AND TRAINING OF EMPLOYEES. HAZARDOUS WASTE PRODUCTS COMMONLY FOUND ON-SITE INCLUDE BUT ARE NOT LIMITED TO PAINTS & SOLVENTS, PETROLEUM PRODUCTS, FERTILIZERS, HERBICIDES & PESTICIDES, SOIL STABILIZATION PRODUCTS, ASPHALT PRODUCTS AND CONCRETE CURING PRODUCTS.

PINE NEEDLE ROLL NOTES

1. REPAIR OR REPLACE SPLIT, TORN UNRAVELING OR SLUMPING PINE NEEDLE ROLLS.
2. INSPECT PINE NEEDLE ROLLS WHEN RAIN IS FORECAST, FOLLOWING RAIN EVENTS, AT LEAST DAILY DURING PROLONGED RAINFALL, AND AT TWO-WEEK INTERVALS DURING THE NON-RAINY SEASON.
3. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE DESIGNATED SEDIMENT STORAGE DEPTH, USUALLY ONE-HALF THE DISTANCE BETWEEN THE TOP OF THE PINE NEEDLE ROLL AND THE ADJACENT GROUND SURFACE. SEDIMENT REMOVED DURING MAINTENANCE MAY BE INCORPORATED INTO THE EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.
4. FILTER BARRIER SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH AND AS APPROVED BY THE LANDSCAPE INSPECTOR.
5. PINE NEEDLE ROLL (8"-12" DIAMETER) SHALL BE PLACED INTO THE KEY TRENCH AND STAKES ON BOTH SIDES OF THE ROLL WITHIN 6 FEET OF EACH END AND THEN EVERY 3' TO 4' WITH 1X2 23" STAKES. STAKES ARE TYPICALLY DRIVEN IN ON ALTERNATING SIDES OF THE ROLL. ADJACENT ROLLS SHALL OVERLAP 2'.
6. CLEAR SUBGRADE SO THAT REMOVAL OF ALL LOCAL DEVIATIONS AND TO REMOVE LARGE STONES OR DEBRIS THAT WILL INHIBIT CLOSE CONTACT OF THE PINE NEEDLE ROLL WITH THE SUBGRADE.
7. PRIOR TO ROLL INSTALLATION, CONTOUR A CONCAVE TRENCH (2 - 4) INCHES DEEP ALONG THE PROPOSED INSTALLATION ROUTE. THE PINE NEEDLE ROLL SHALL BE INSTALLED ALONG THE SIDE OF WALKS AND AROUND THE CATCH BASINS. THE BOTTOM EDGE OF THE PINE NEEDLE ROLL SHALL EXTEND TO AND ACROSS THE BOTTOM OF THE TRENCH. THE TRENCH SHALL BE BACKFILLED TO 4 INCHES ABOVE GROUND AND COMPACTED TO BURY AND SECURE THE BOTTOM OF THE PINE NEEDLE ROLL.
8. CONTRACTOR SHALL MAKE INSPECTIONS WEEKLY DURING THE WET SEASON, MONTHLY DURING THE DRY SEASON AND IMMEDIATELY AFTER EACH RAINFALL TO DETERMINE IF REPAIRS AND SEDIMENT REMOVAL IS REQUIRED. SEDIMENT SHALL BE REMOVED BEFORE IT HAS REACHED ONE THIRD THE HEIGHT OF THE PINE NEEDLE ROLL.



1 DRAIN INLET DETAIL
NO SCALE



2 STRAW WADDLE ROLL DETAIL
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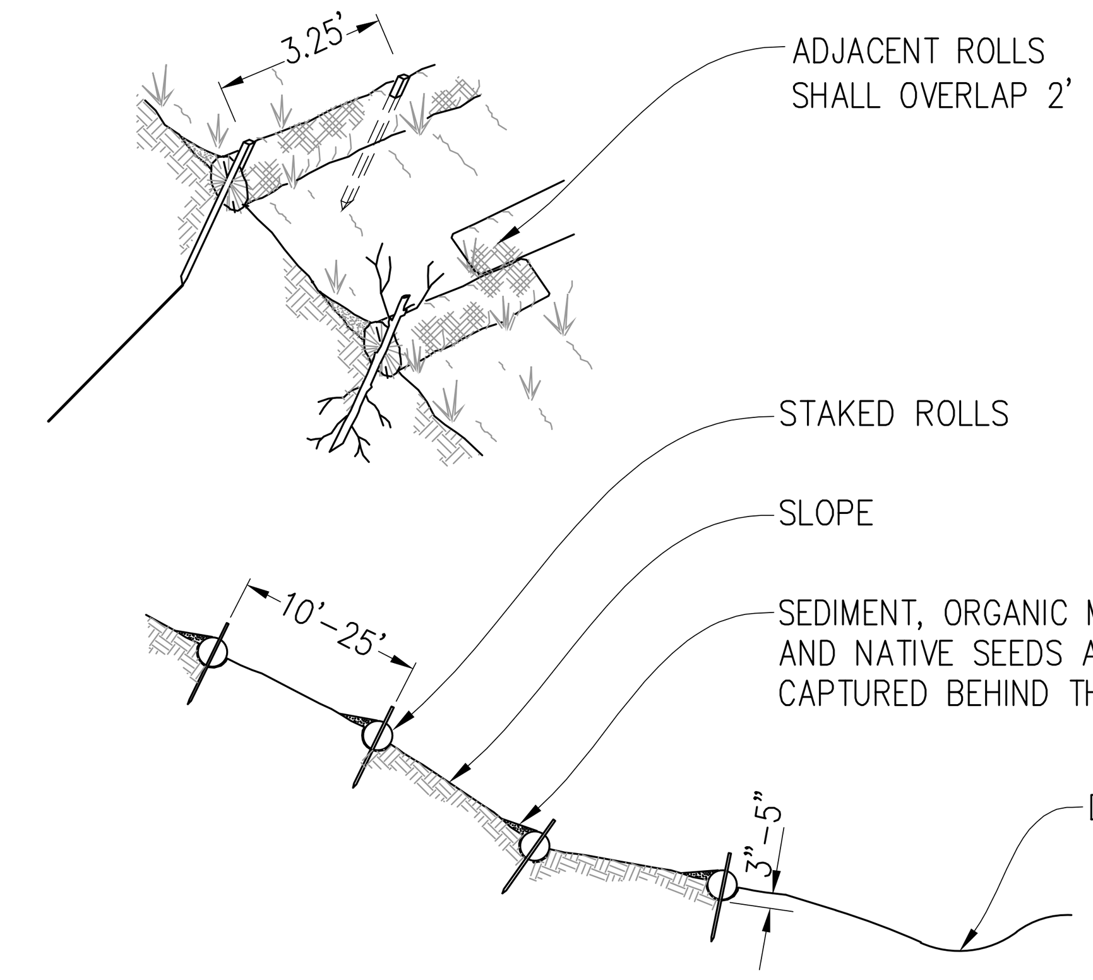
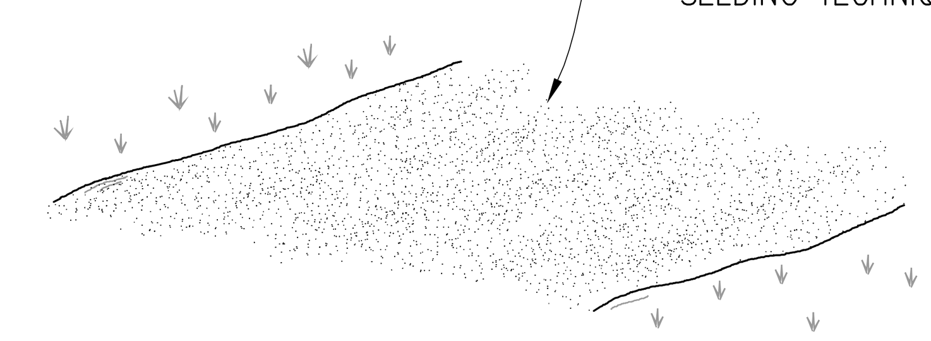


3 STRAW WADDLE DETAIL
NO SCALE

SEEDING MAY BE USED ONLY BETWEEN APRIL 1 AND JUNE 30, AND SEPTEMBER 1 AND OCTOBER 30.

AREA STRIPPED AND THEN TEMPORARILY SEEDED, USING EITHER BONDED FIBER MATRICES OR HYDRO SEEDING TECHNIQUES



PINE NEEDLE MULCHING:
1. PINE NEEDLE MULCH SHALL BE USED.

SEEDING MIXTURES

SPECIES COMMON NAME	SPECIES BOTANICAL NAME	PLS AMOUNT PER ACRE
BLUE WILDRYE (STANISLAUS 5000 OR HIGH ELEVATION COLLECTION)	ELYMUS GLAUCUS (STAN 5000)	30
MOKELUMNE OR ELDORADO BROME (OR OTHER HIGH ELEVATION COLLECTION)	BROMUS CARINATUS (MOKELUMNE)	30
SQUIRREL TAIL HIGH ELEVATION COLLECTION	ELYMUS ELYMOIDES SSP. ELYMOIDES 9SIERRA)	40
ANTELOPE BITTERBRUSH (+5500 FT. SIERRA COLLECTION)	PURSHIA TRIDENTATA	5
MOUNTAIN SAGEBRUSH (+5500 FT. SIERRA COLLECTION)	ARTEMESIA TRIDENTATA	1
	TOTAL PLS PER ACRE RATE	106

TO PROVIDE TEMPORARY SOIL STABILIZATION BY PLANTING GRASSES AND LEGUMES TO AREAS THAT WOULD REMAIN BARE FOR MORE THAN 7 DAYS WHERE PERMANENT COVER IS NOT NECESSARY OR APPROPRIATE.

4 TEMP SEEDING & MULCHING
NO SCALE

STEEP SLOPE (>3:1)

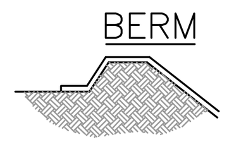
JUTE MATTING OR OTHER BIODEGRADABLE MATERIAL

SHALLOW SLOPE (<3:1)

ON STEEP SLOPES, APPLY STRIPS OF NETTING PARALLEL TO THE DIRECTION OF THE FLOW AND ANCHOR SECURELY

ON SHALLOW SLOPES, STRIPS OF NETTING MAY BE APPLIED ACROSS THE SLOPE

WHERE THERE IS A BERM AT THE TOP OF THE SLOPE, BRING THE NETTING OVER THE BERM AND ANCHOR IT BEHIND THE BERM



TO PROVIDE IMMEDIATE PROTECTION TO EXPOSED SOILS DURING THE PERIOD OF SHORT CONSTRUCTION DELAYS

5 MATTING/ROLLED EROSION CONTROL PRODUCTS
NO SCALE

Issued For:

PLACERVILLE SHERIFF

3170 GOLD NUGGET WY, PLACERVILLE, CA 95667

PREPARED FOR

verizon✓

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

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ENGINEER:

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E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

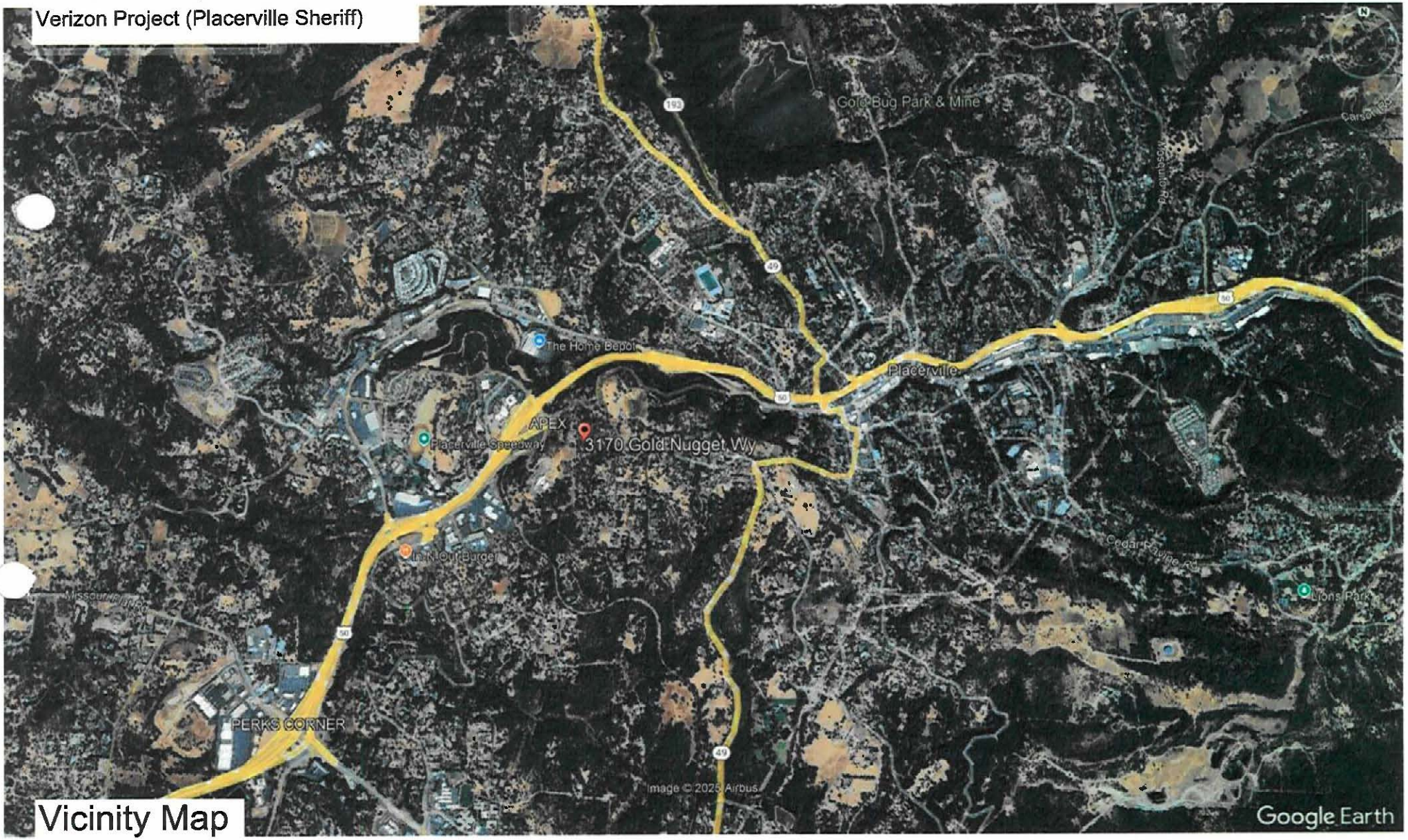
SHEET TITLE:
BMP DETAILS & NOTES

SHEET NUMBER:
BMP2

CUP-R25-0005/ATC - Wooden Pole to Monopine
Exhibit F - Visual Simulations

3170 Gold Nugget Way
Placerville, CA 95667

Verizon Project (Placerville Sheriff)



Vicinity Map

Version Date: October 1, 2025

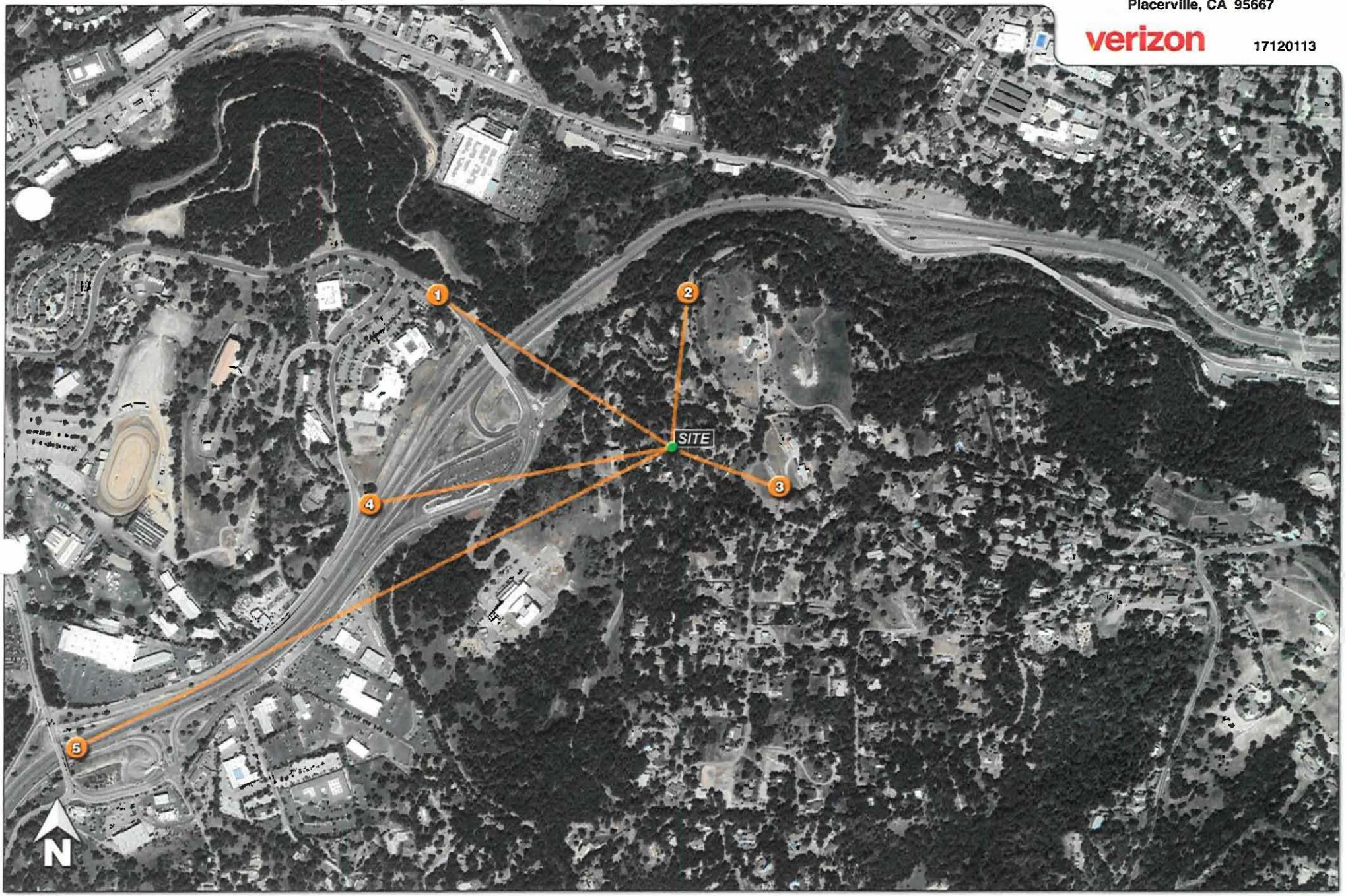
Aerial photograph showing the viewpoints for the photosimulations.

CUP-R25-0005

Placerville Sheriff
3170 Gold Nugget Way
Placerville, CA 95667

verizon

17120113



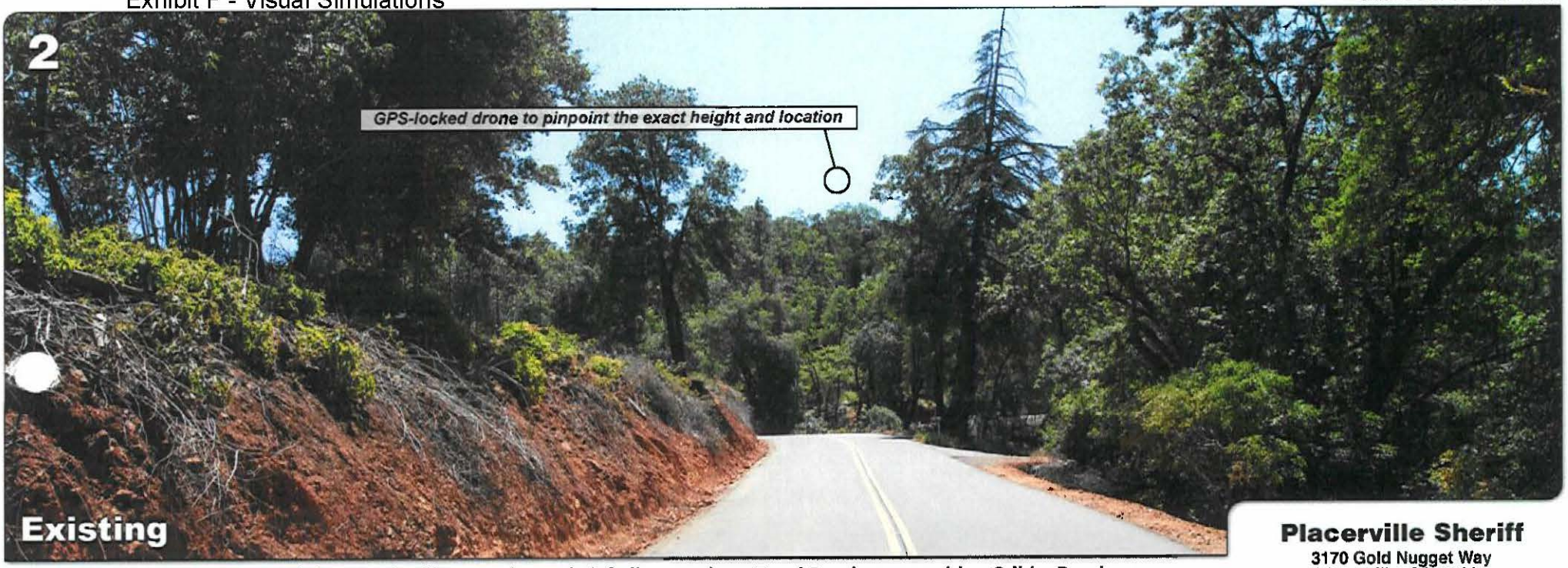
Version Date: October 1, 2025

Placerville Sheriff
3170 Gold Nugget Way
Placerville, CA 95667

verizon 17120113

Photosimulation of the view looking southeast along Ray Lawyer Drive at Fair Lane.

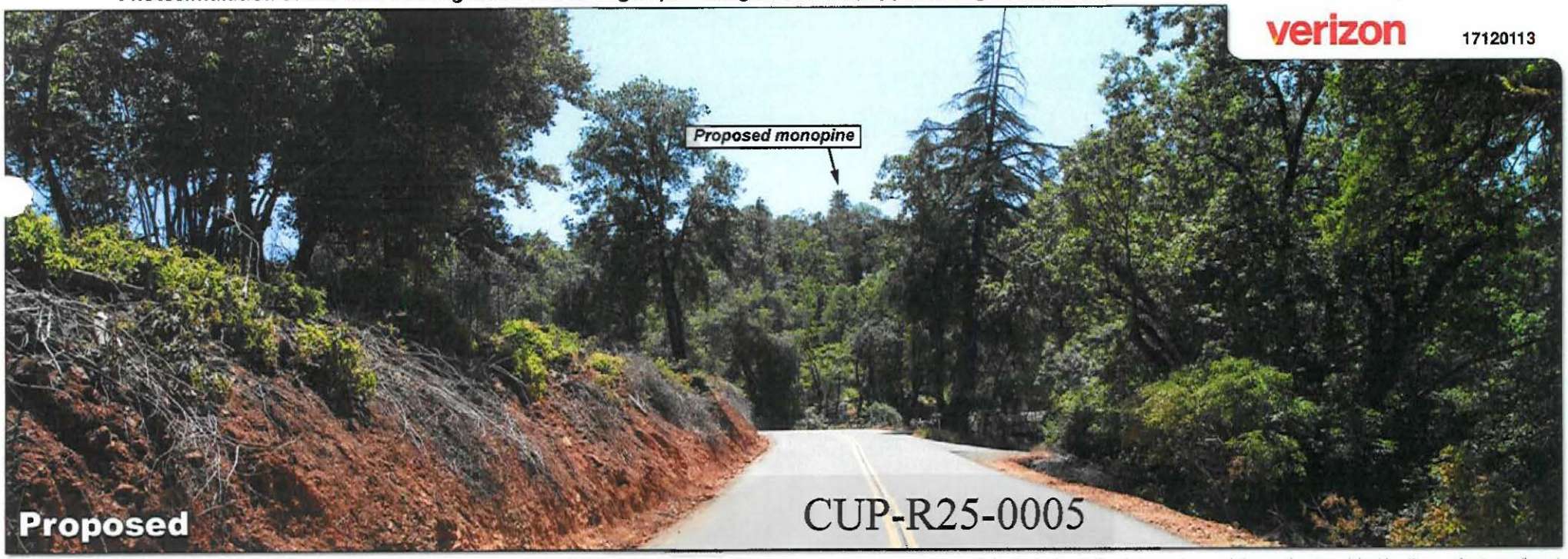
Version Date: October 1, 2025



Photosimulation of the view looking south at a brief glimpse along Forni Road, approaching Cribbs Road.

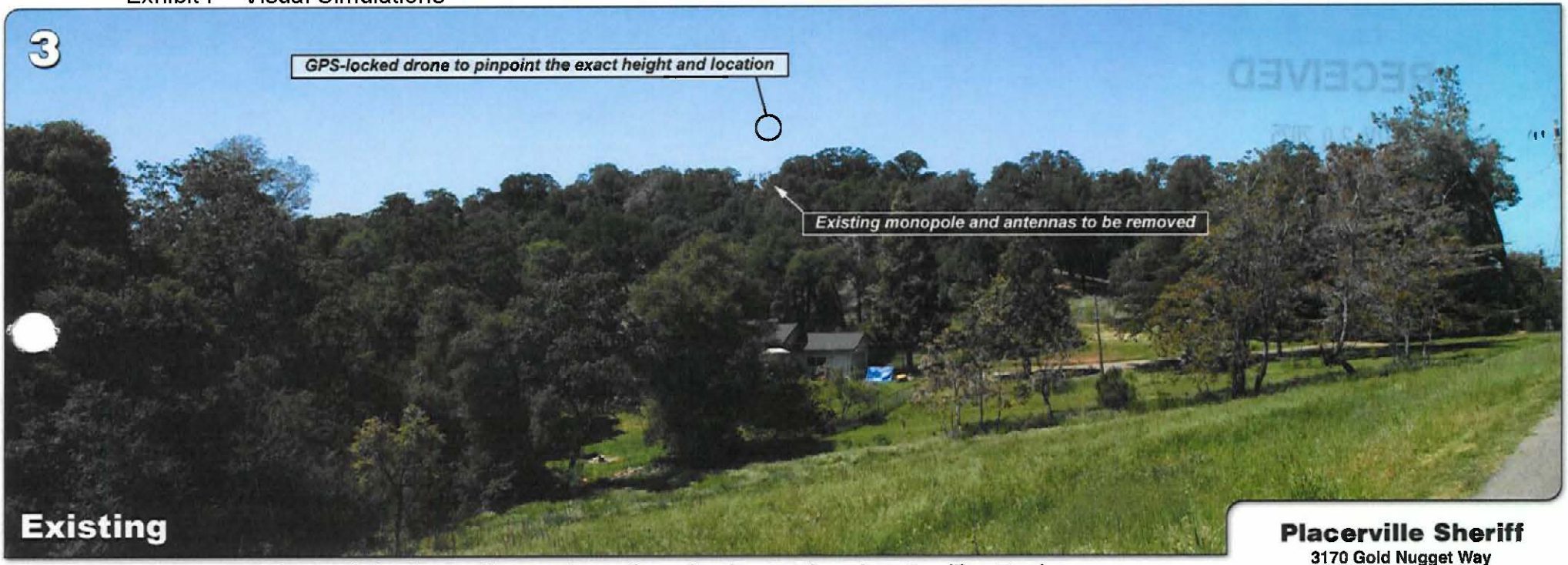
Placerville Sheriff
3170 Gold Nugget Way
Placerville, CA 95667

verizon 17120113



CUP-R25-0005/ATC - Wooden Pole to Monopine
Exhibit F - Visual Simulations

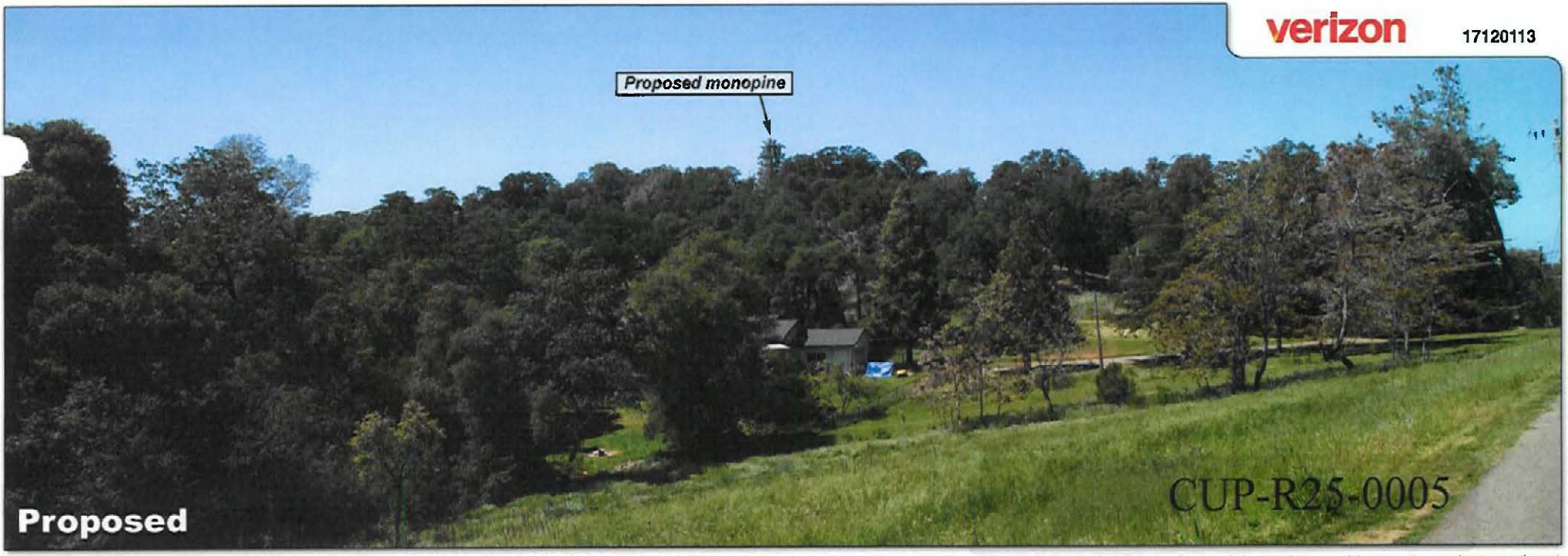
Version Date: October 1, 2025



Placerville Sheriff
3170 Gold Nugget Way
Placerville, CA 95667

verizon 17120113

Photosimulation of the view looking northwest from the clearest view along Excalibar Road.



Version Date: October [illegible] 2025

Placerville Sheriff
3170 Gold Nugget Way
Placerville, CA 95667

verizon 17120113

Photosimulation of the view looking east from Hwy 50, along the onramp from Ray Lawyer Drive.

Placerville Sheriff
3170 Gold Nugget Way
Placerville, CA 95667

verizon 17120113

Photosimulation of the view looking northeast from eastbound Hwy 50, crossing under the Forni Road overpass.

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WATERFORD

Radio Frequency Emissions Compliance Report for Verizon Wireless

Site Name:	**PLACERVILLE SHERIFF (ATC)**	**Site Structure Type:**	**Monopine**
Address:	**3170 Gold Nugget Way**	**Latitude:**	**38.726500**
	Placerville, CA 95667-5425	**Longitude:**	**-120.820577**
Report Date:	**11/03/2025**	**Project:**	**NSB**

Compliance Statement

Based on information provided by Verizon and predictive modeling, the **PLACERVILLE SHERIFF (ATC)** installation proposed by Verizon will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to the antenna to authorized personnel that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Certification

I, Tim Alexander, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

REGISTERED PROFESSIONAL ENGINEER
TIM ALEXANDER
No. E18344
Exp, 31 MAR 2026
ELECTRICAL
STATE OF CALIFORNIA

SIGNED, 10 NOV 2025

General Summary

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

Table 1: FCC Limits

Frequency (MHz)	*Limits for General Population/ Uncontrolled Exposure*		*Limits for Occupational/ Controlled Exposure*	
	Power Density (mW/cm^2)	Averaging Time (minutes)	Power Density (mW/cm^2)	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

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In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \ (\mathrm{mW/cm^2})$$

Where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

$$S = \left(\frac{180}{\theta_{BW}}\right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \ (\mathrm{mW/cm^2})$$

Where P_{in} is the power input to the antenna, θ_{BW} is the horizontal pattern beamwidth and h is the aperture length.

Some antennas employ beamforming technology where RF energy allocated to each customer device is dynamically directed toward their location. In the analysis presented herein, predicted exposure levels are based on all beams at full utilization (i.e. full power) simultaneously focused in any direction. As this condition is unlikely to occur, the actual power density levels at ground and at adjacent structures are expected to be less that the levels reported below. These theoretical results represent maximum-case predictions as all RF emitters are assumed to be operating at maximum duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

SCOPE:

Verizon Wireless proposes the following installation at this location:

- REMOVING & REPLACING (E) WOOD MONOPOLE W / (N) 68' TALL MONOPINE.
- REMOVING & REPLACING (E) SHELTER EQUIPMENT W / (N) VERIZON WIRELLESS EQUIPMENT
- (9) (N) ANTENNAS
- (6) (N) RRH UNITS @ ANTENNAS

The antennas will be mounted inside a Monopine with centerlines at (60', 61', & 61.8') above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. No other antennas are known to be operating in the vicinity of this site.

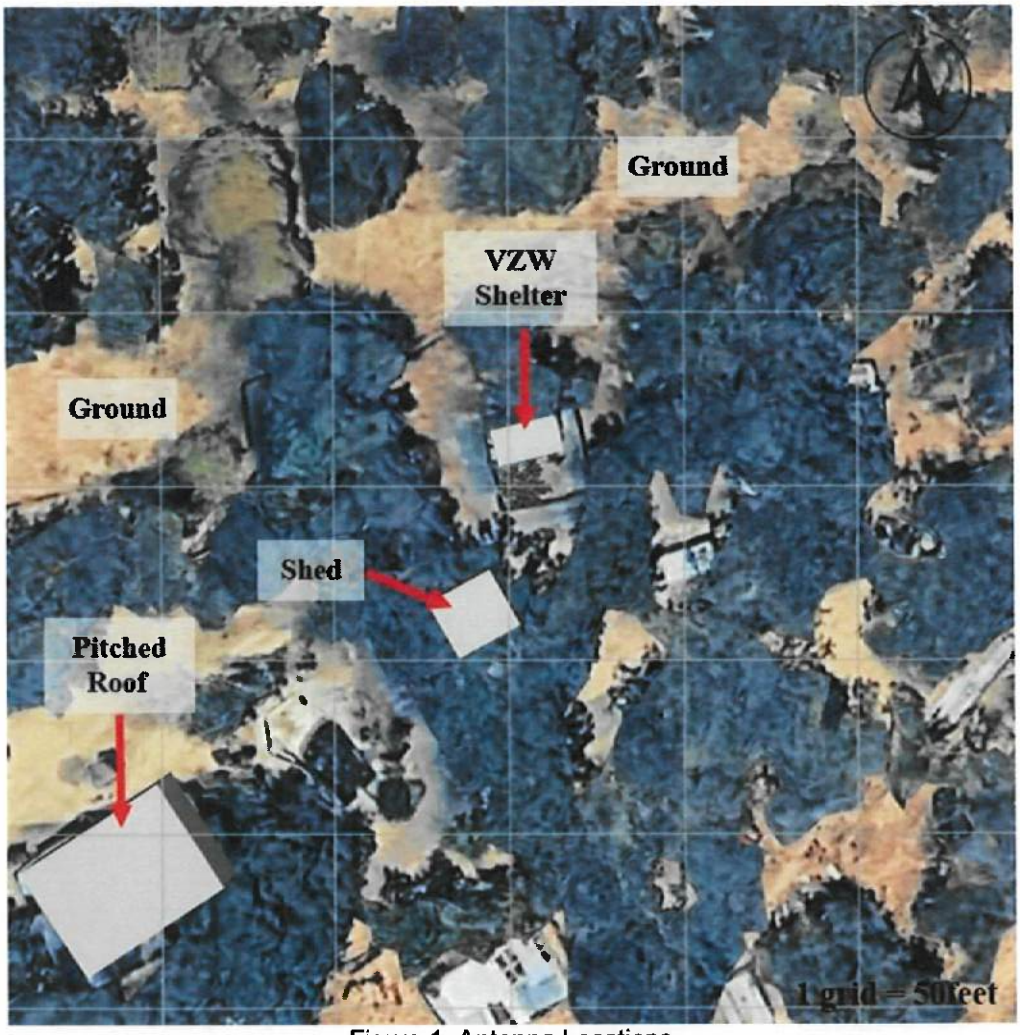

Figure 1: Antenna Locations

Power density decreases significantly with distance from any antenna. The Panel-type antenna to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at Pitched Roof level, the maximum predicted power density level resulting from all Verizon Wireless operations is 83.83% of the FCC General Population limits (Figure 2.2). Notice that the power density levels will exceed the FCC's MPE limit for General Population in front of the antennas which it is not generally accessible areas. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent Structures.

On the Antennas Level in front of the antennas, predicted MPE levels will exceed the FCC General Population limits within 84 feet in front of the antennas and within 11 feet below the antennas Centerline. The maximum predicted power density level resulting from all Verizon operations directly in front of the antennas is 16144.74% of the FCC General Population limits (3228.95% of the FCC Occupational limits). Waterford Consultants, any work activity in front of transmitting antennas should be coordinated with Verizon Wireless
The following plots show the cumulative spatial average predicted power density levels in the reference plane indicated as a percentage of the General Public Limits. Please note that 100% of the General Public Limits corresponds to 20% of the Occupational Limits.

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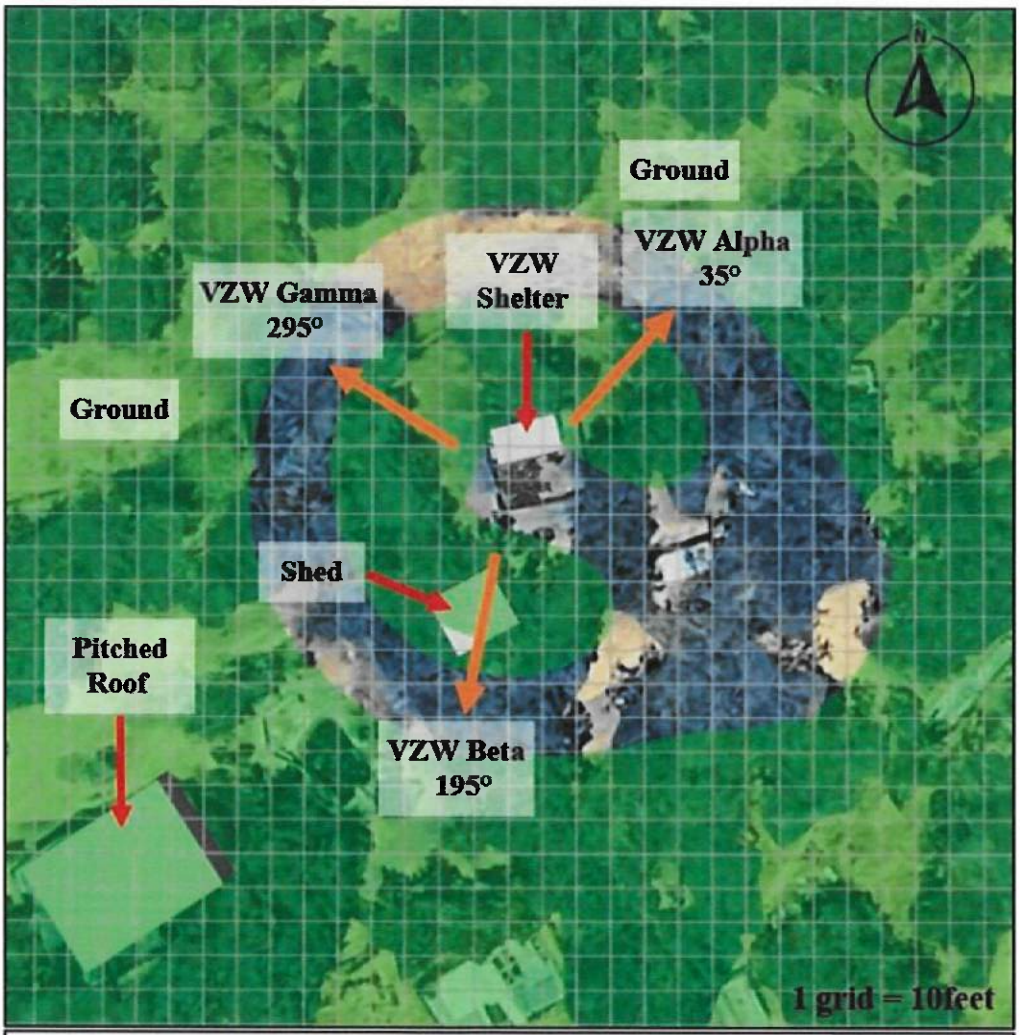

Legend

Study Zone	Elev. (ft)	Type	Exposure Profile	Max MPE	Att	Carriers
Ground	0.1	Floor	2D FFw/RC GP 0.5 res	45.19%	0.00	VZW
Pitched Roof	20.1	Floor	2D FFw/RC GP 0.5 res	83.83%	0.00	VZW
Shed	15.1	Floor	2D FFw/RC GP 0.5 res	32.08%	0.00	VZW
VZW Shelter	12.1	Floor	2D Sula9 GP 0.5 res	2.20%	0.00	VZW

5%-100% | 100%-500% | 500%-5000% | 5000%+

Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF
2D Sula9 GP 0.5 res	Sula 9	Spatial Avg. (6 ft)	FCC General Public	0.5	1.0
2D FFw/RC GP 0.5 res	OET-65 Far Field	Spatial Avg. (6 ft)	FCC General Public	0.5	1.6

VZW

Max MPE

Grid Size: 10.00 feet

Floor = Elevation +6' | Mid-Level = Elevation +/- 3'

Figure 2.1: Predicted MPE as Percentage of FCC General Population Limits (All transmitters)

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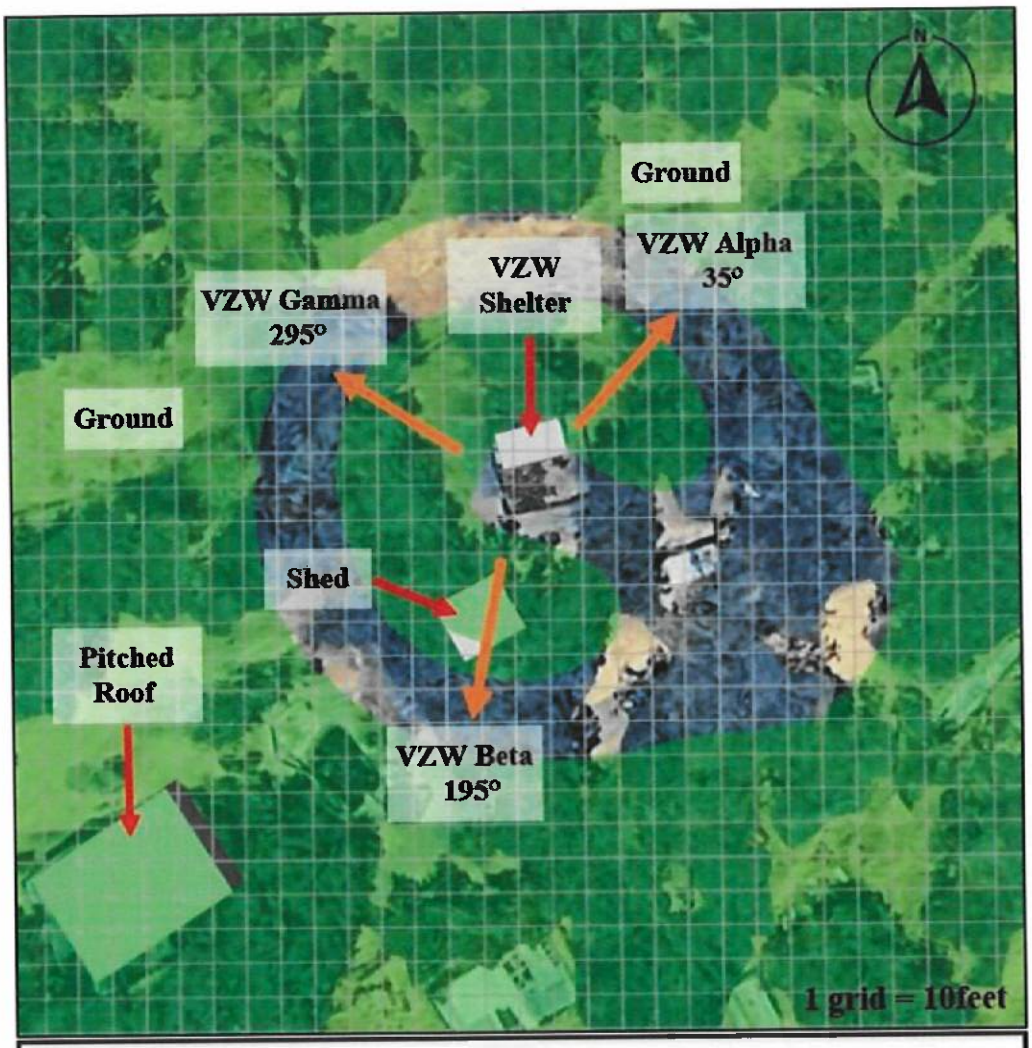

Legend

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Shed	15.1	Floor	2D FFw/RC GP 0.5 res	32.08%	0.00	VZW
VZW Shelter	12.1	Floor	2D Sula9 GP 0.5 res	2.20%	0.00	VZW

5%-100% | 100%-500% | 500%-5000% | 5000%+

Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF
2D Sula9 GP 0.5 res	Sula 9	Spatial Avg. (6 ft)	FCC General Public	0.5	1.0
2D FFw/RC GP 0.5 res	OET-65 Far Field	Spatial Avg. (6 ft)	FCC General Public	0.5	1.6

VZW

Max MPE

Grid Size: 10.00 feet

Floor = Elevation +6' | Mid-Level = Elevation +/- 3'

Figure 2.2: Predicted MPE as Percentage of FCC General Population Limits (Verizon Only)

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Figure 3 shows predicted MPE levels near the antennas. Waterford Consultants, LLC recommends a posting RF Any work activity in front of transmitting antennas should be coordinated with Verizon. Any work activity in front of transmitting antennas should be coordinated with Verizon.

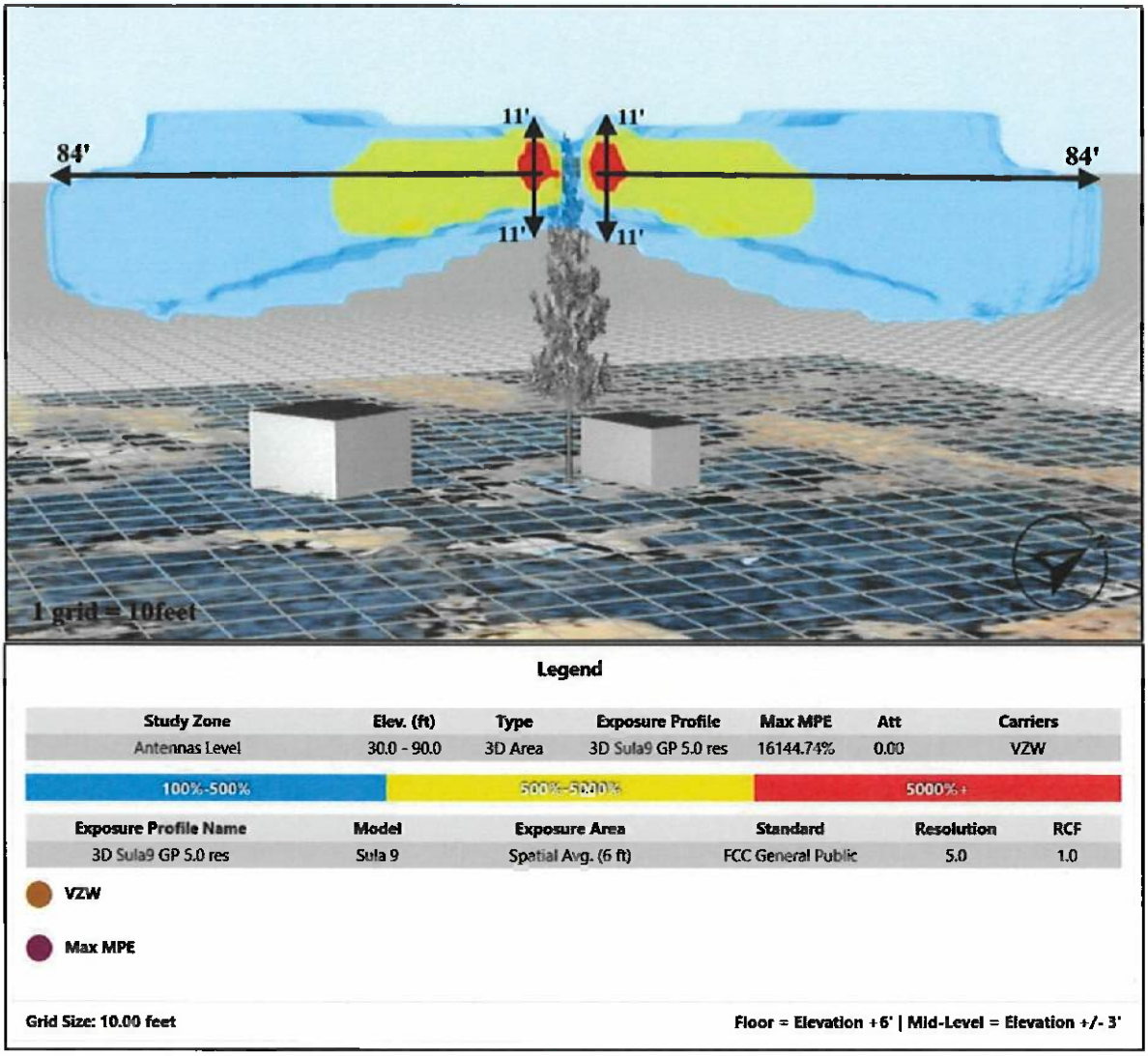

Figure 3: Predicted MPE at Antenna Elevation as Percentage of FCC General Population Limits

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Compliance Requirement Diagram

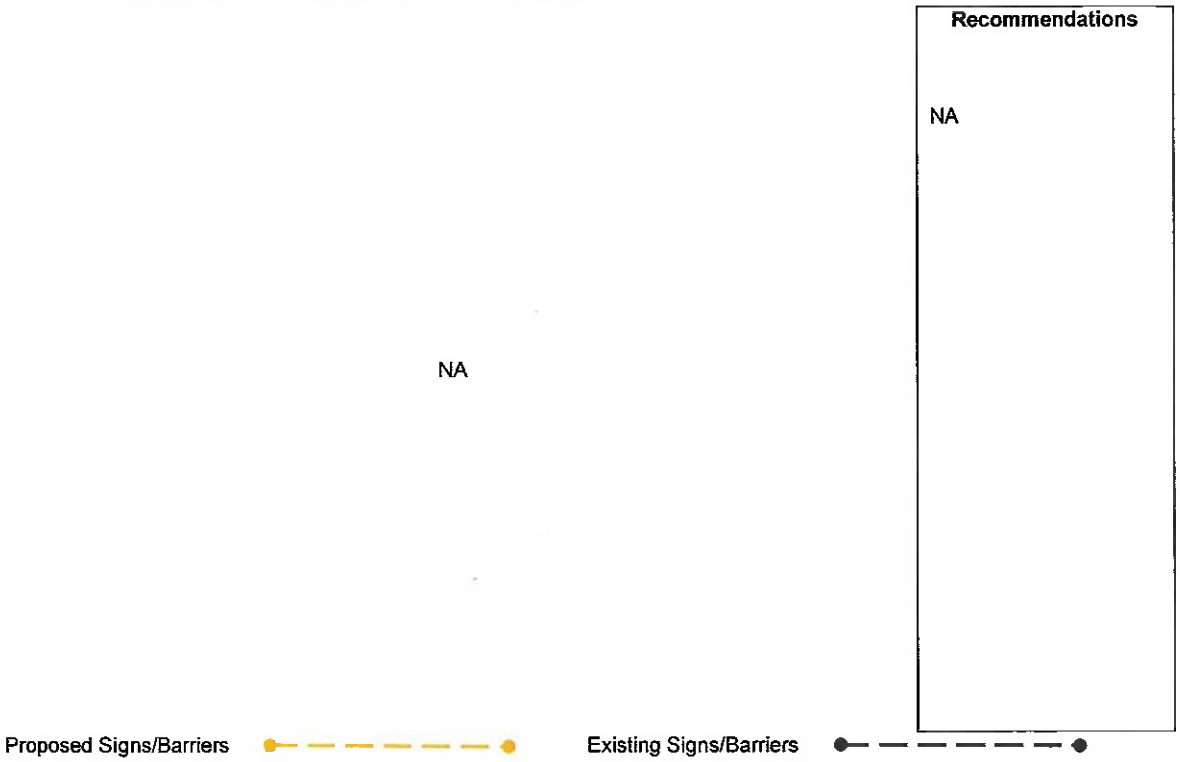

Figure 4: Mitigation Recommendations

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Appendix A: Operating Parameters Considered in this Analysis

ID Sub ID	Carrier NAME	Antenna Model	MDT (°)	Az (°)	Freq Band	EDT (°)	HBW (°)	VBW (°)	Paths	Transmit Power (W)	Total Power (W)	Gain (dBd)	ERP (W)	Ant Level z Height	Pitched Roof z Height	Shed z Height	Ground z Height
A1	VZW	SON_ND668-5C	0	35	700	SON	72	12	4	60	213.90	12.48	3786.26	0	40	45	60
A1	VZW	SON_ND668-5C	0	35	850	SON	70	11	4	60	213.90	12.61	3901.31	0	40	45	60
A2	VZW	SON_AIR3283	0	35	1900	SON	69	17	32	5	160.00	14.48	4488.69	0	41	46	61
A2	VZW	SON_AIR3283	0	35	2100	SON	67	15	32	2.5	80.00	15.01	2535.65	0	41	46	61
A2	VZW	SON_AIR3283	0	35	2100_3	SON	67	15	32	2.5	80.00	15.01	2535.65	0	41	46	61
A3	VZW	SON_AIR6419	0	35	3700	SON	11	25	64	5	320.00	23.45	70818.96	0	41.8	46.8	61.8
B1	VZW	SON_ND668-5C	0	195	700	SON	72	12	4	60	213.90	12.48	3786.26	0	40	45	60
B1	VZW	SON_ND668-5C	0	195	850	SON	70	11	4	60	213.90	12.61	3901.31	0	40	45	60
B2	VZW	SON_AIR3283	0	195	1900	SON	69	17	32	5	160.00	14.48	4488.69	0	41	46	61
B2	VZW	SON_AIR3283	0	195	2100	SON	67	15	32	2.5	80.00	15.01	2535.65	0	41	46	61
B2	VZW	SON_AIR3283	0	195	2100_3	SON	67	15	32	2.5	80.00	15.01	2535.65	0	41	46	61
B3	VZW	SON_AIR6419	0	195	3700	SON	11	25	64	5	320.00	23.45	70818.96	0	41.8	46.8	61.8
C1	VZW	SON_ND668-5C	0	295	700	SON	72	12	4	60	213.90	12.48	3786.26	0	40	45	60
C1	VZW	SON_ND668-5C	0	295	850	SON	70	11	4	60	213.90	12.61	3901.31	0	40	45	60
C2	VZW	SON_AIR3283	0	295	1900	SON	69	17	32	5	160.00	14.48	4488.69	0	41	46	61
C2	VZW	SON_AIR3283	0	295	2100	SON	67	15	32	2.5	80.00	15.01	2535.65	0	41	46	61
C2	VZW	SON_AIR3283	0	295	2100_3	SON	67	15	32	2.5	80.00	15.01	2535.65	0	41	46	61
C3	VZW	SON_AIR6419	0	295	3700	SON	11	25	64	5	320.00	23.45	70818.96	0	41.8	46.8	61.8

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700 COVERAGE MAPS

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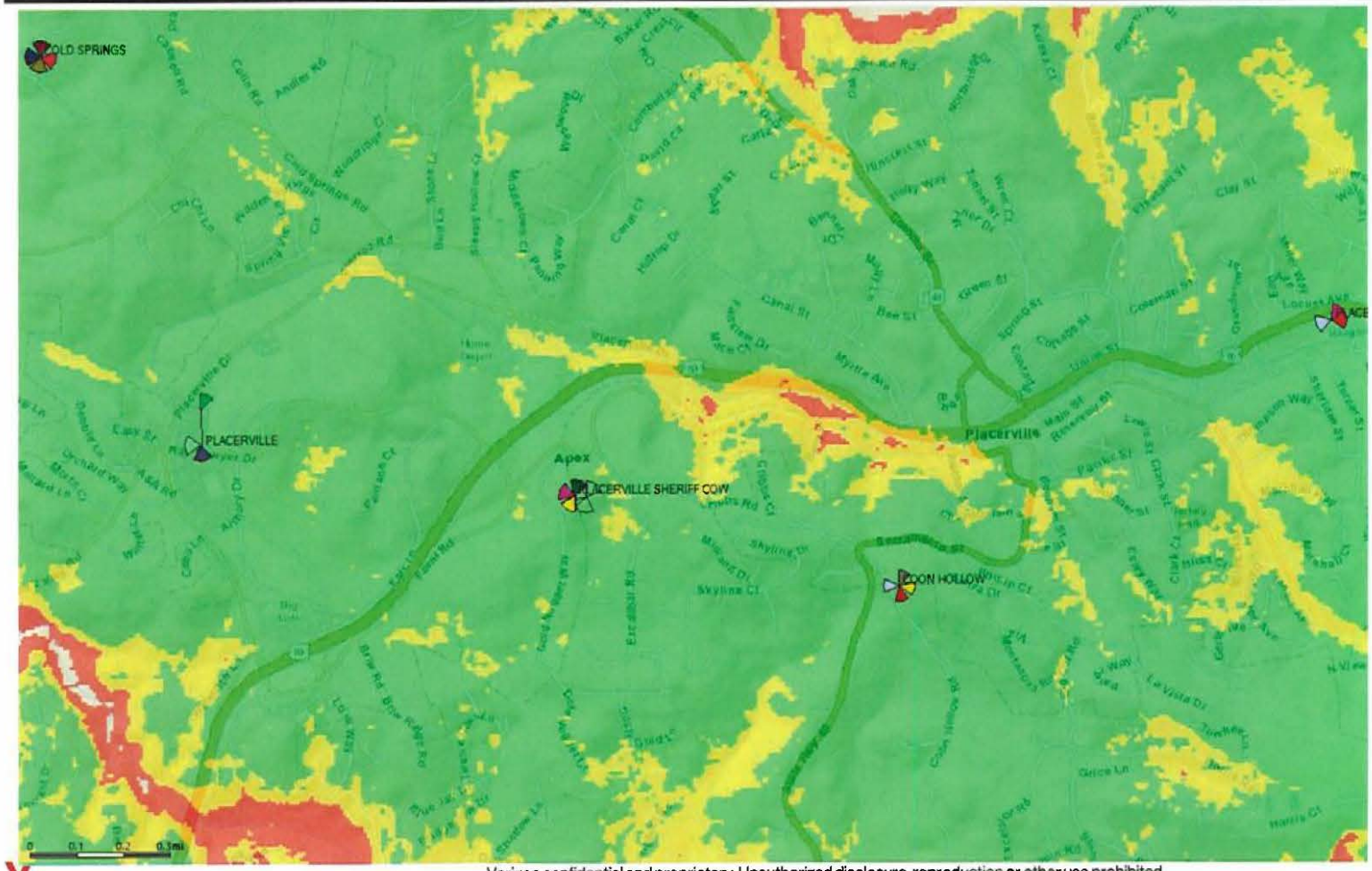
700 – EXISTING COVERAGE WITH THE COW/TEMP



RSRP (DL) (dBm) >=-85 (INDOOR)
RSRP (DL) (dBm) >=-95 (IN-VEHICLE)
RSRP (DL) (dBm) >=-105 (OUTDOOR)

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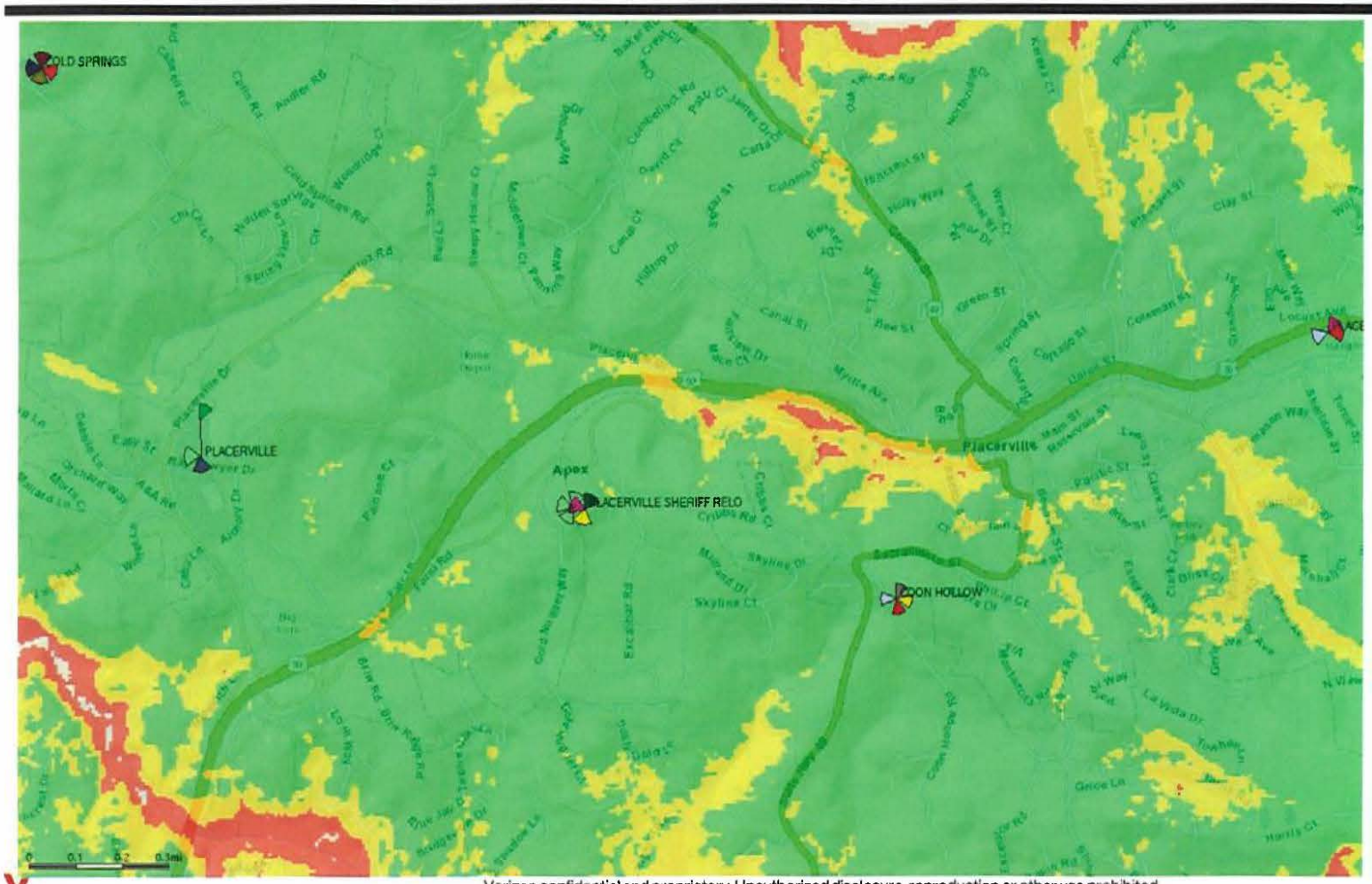
700 – COVERAGE WITH RELO/PERM SITE



RSRP (DL) (dBm) >=-85 (INDOOR)
RSRP (DL) (dBm) >=-95 (IN-VEHICLE)
RSRP (DL) (dBm) >=-105 (OUTDOOR)

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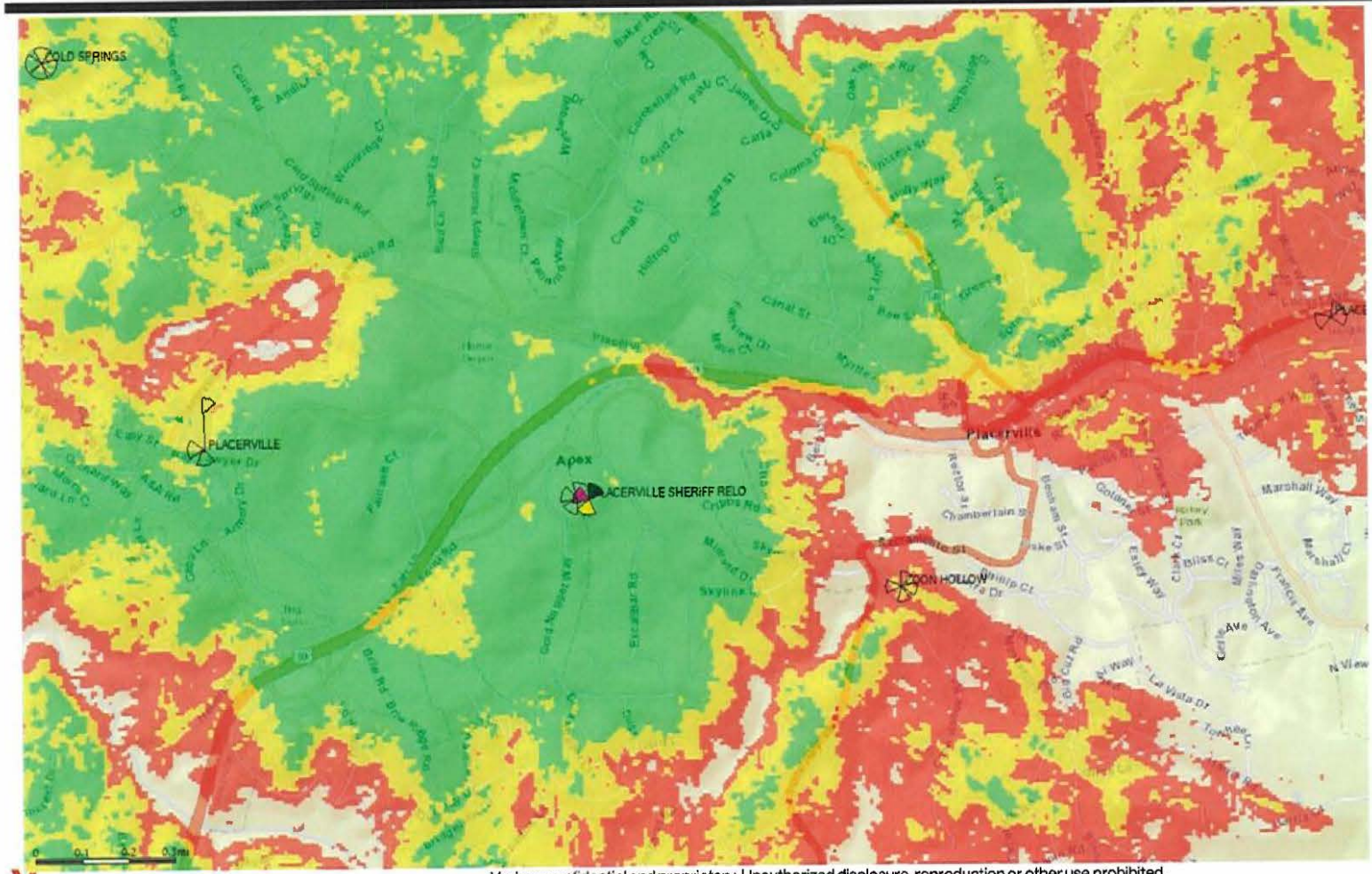
700 – COVERAGE WITH RELO/PERM SITE ONLY



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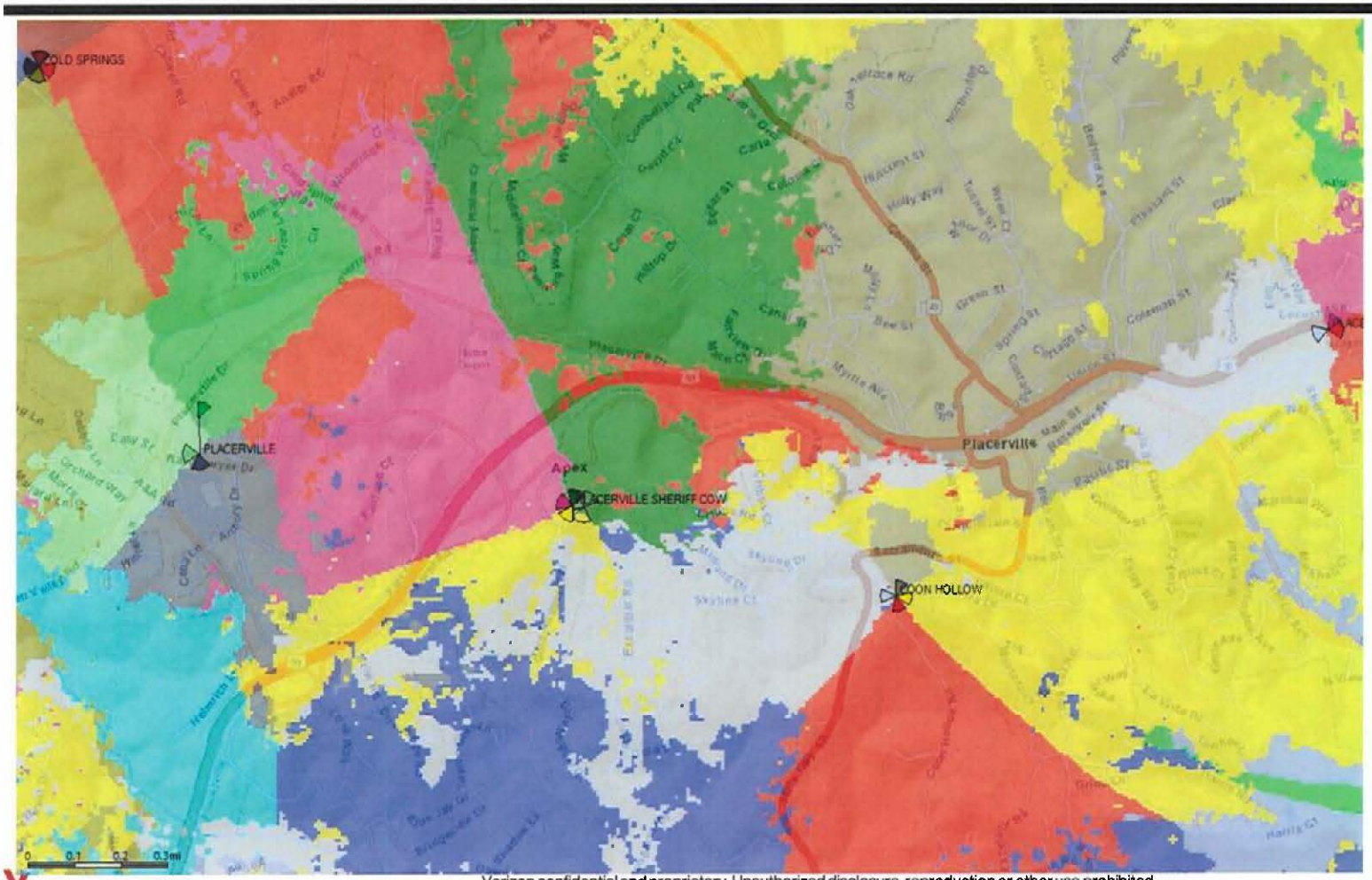
700 – EXISTING SERVER WITH THE COW/TEMP



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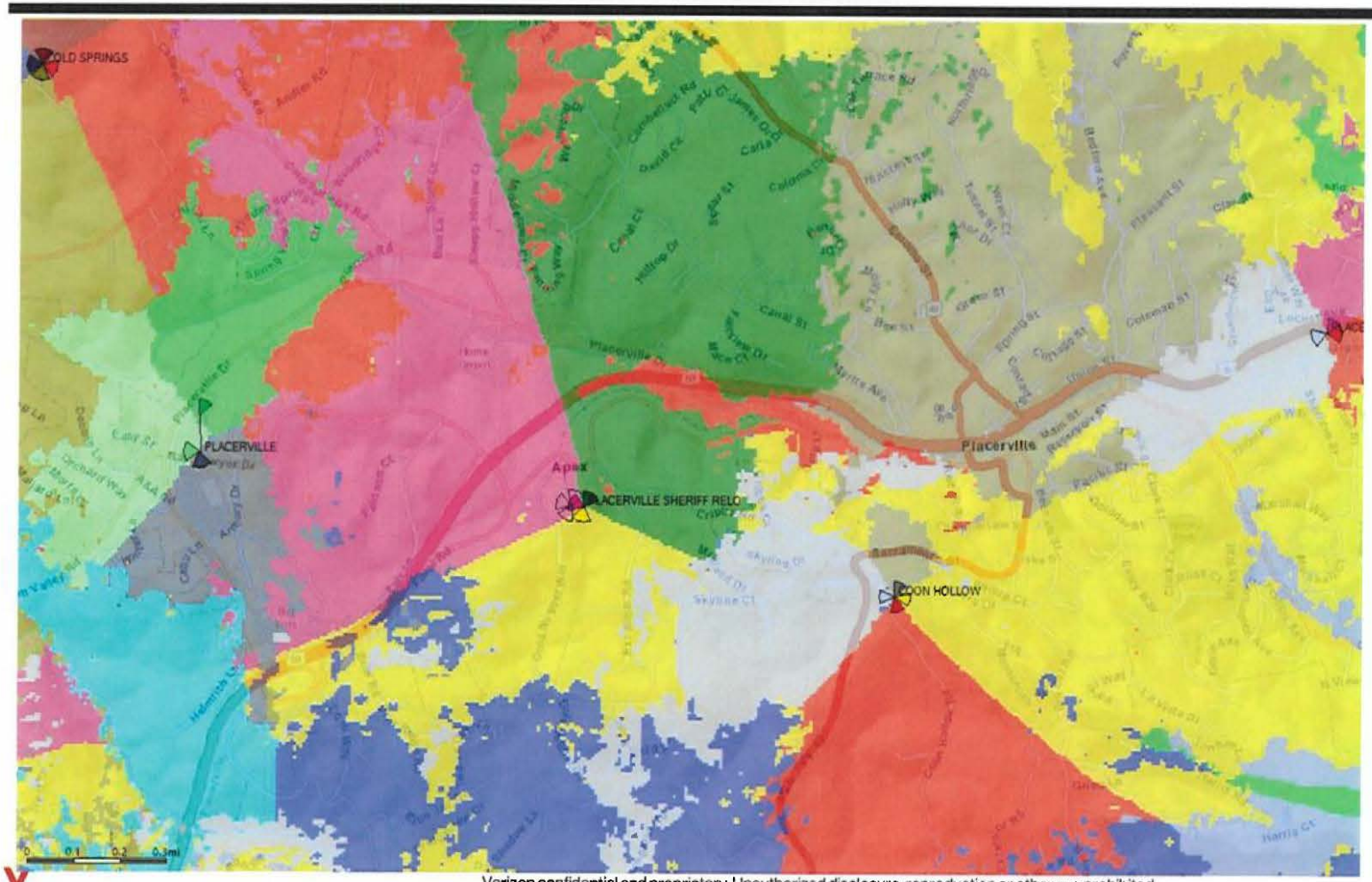
700 – SERVER WITH RELO/PERM SITE



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AWS COVERAGE MAPS

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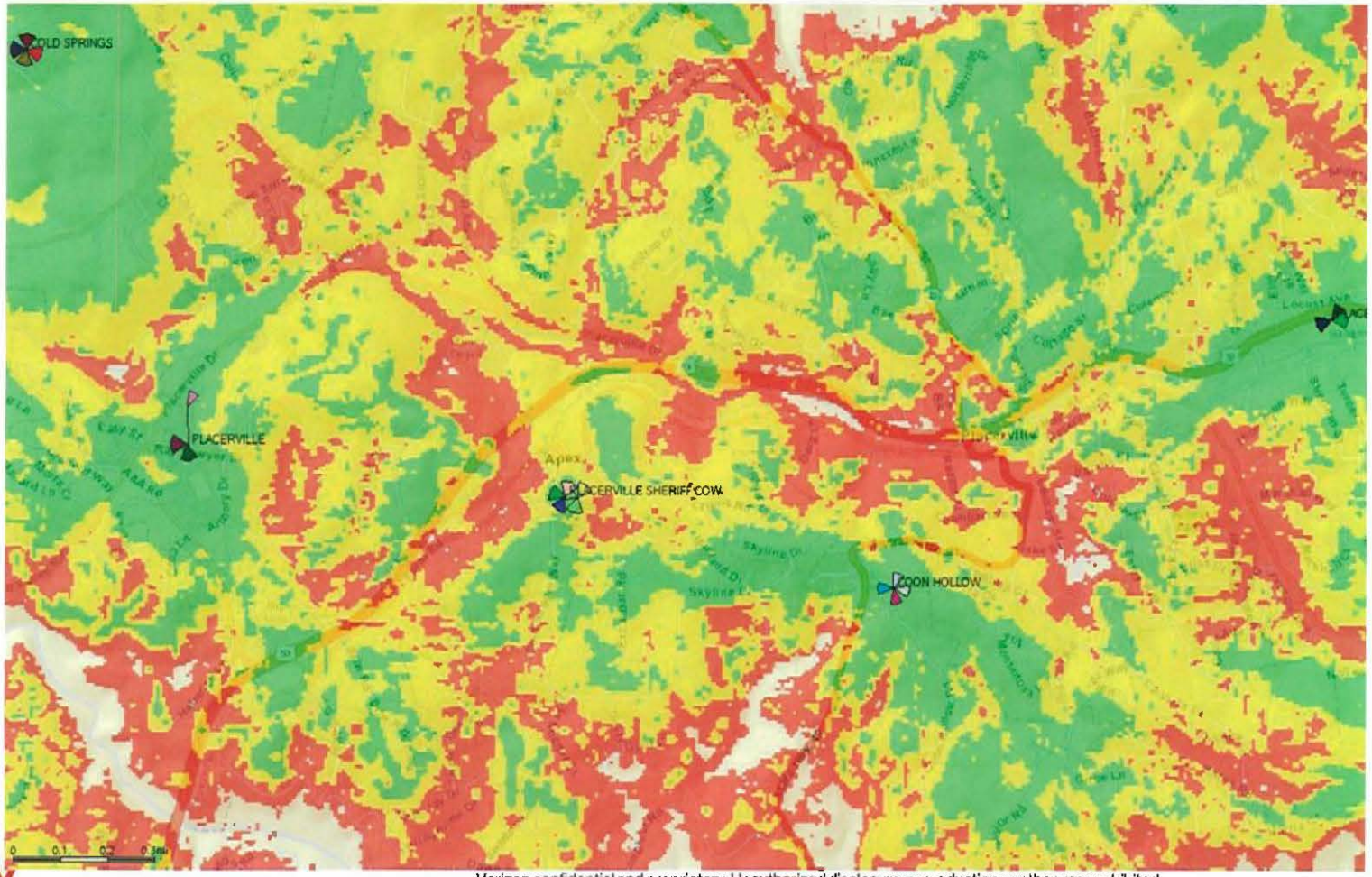
AWS – EXISTING COVERAGE WITH THE COW/TEMP



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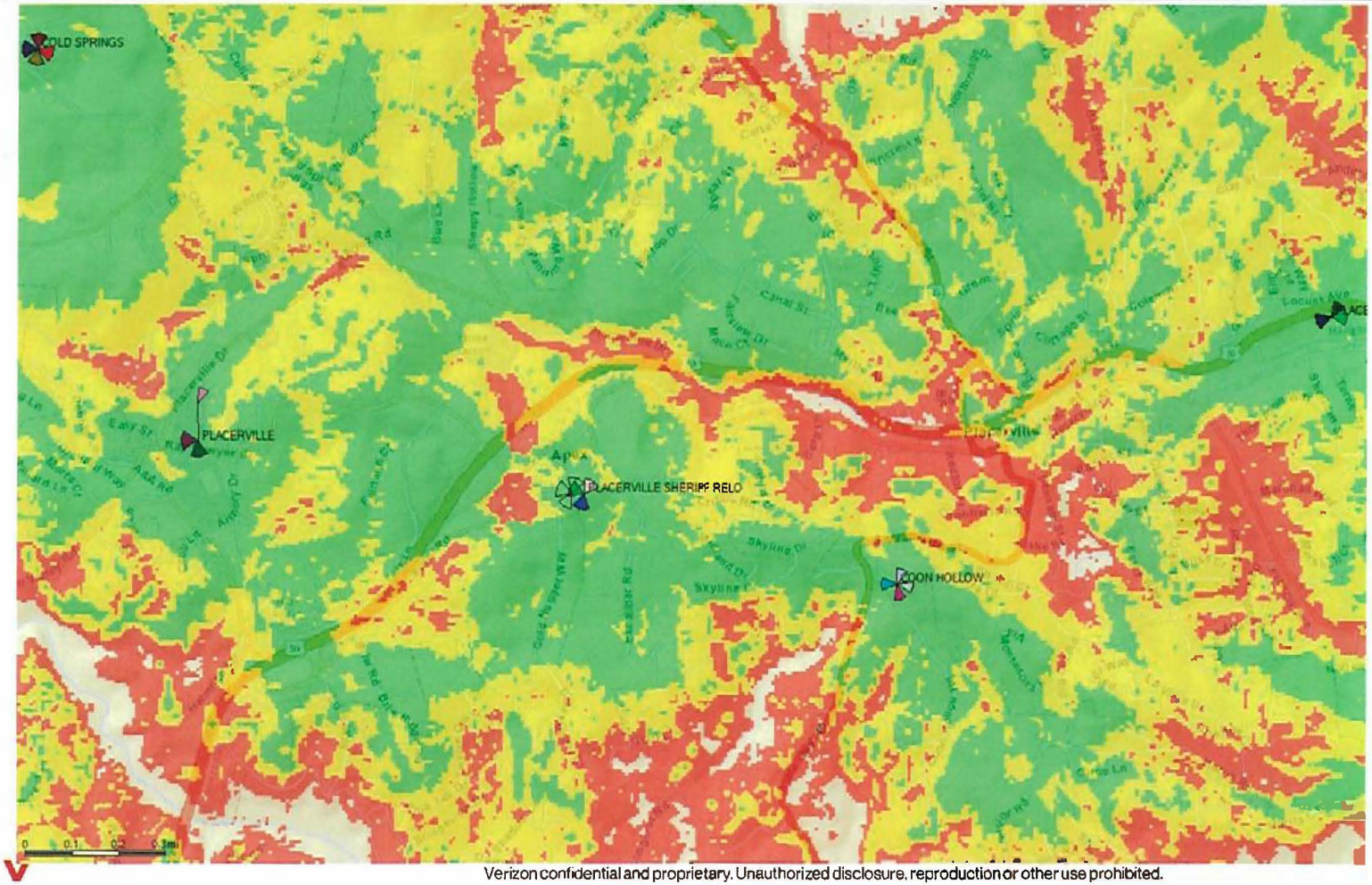
AWS – COVERAGE WITH RELO/PERM SITE



RSRP (DL) (dBm) >=-85 (INDOOR)
RSRP (DL) (dBm) >=-95 (IN-VEHICLE)
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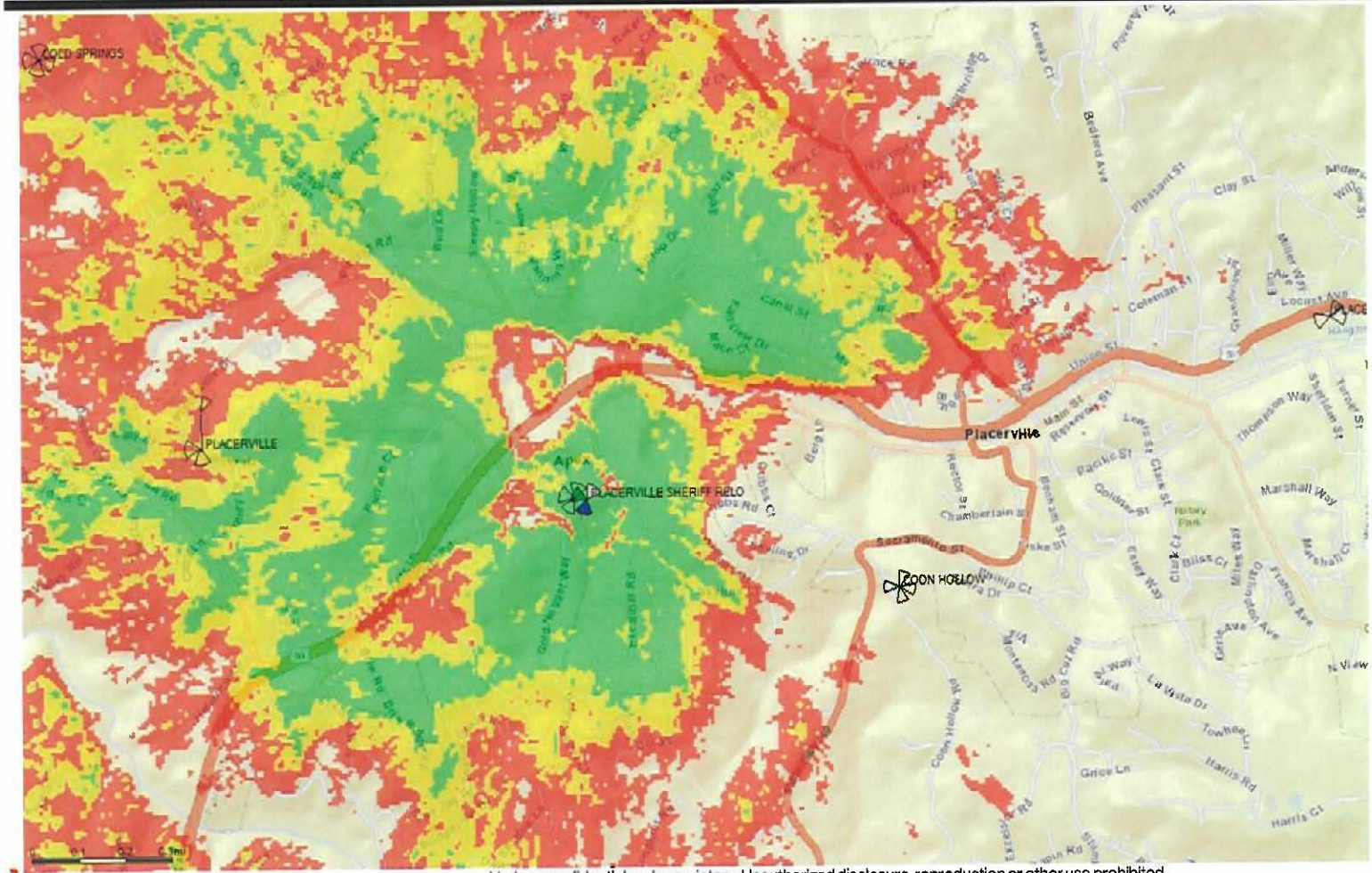
AWS – COVERAGE WITH RELO/PERM SITE ONLY



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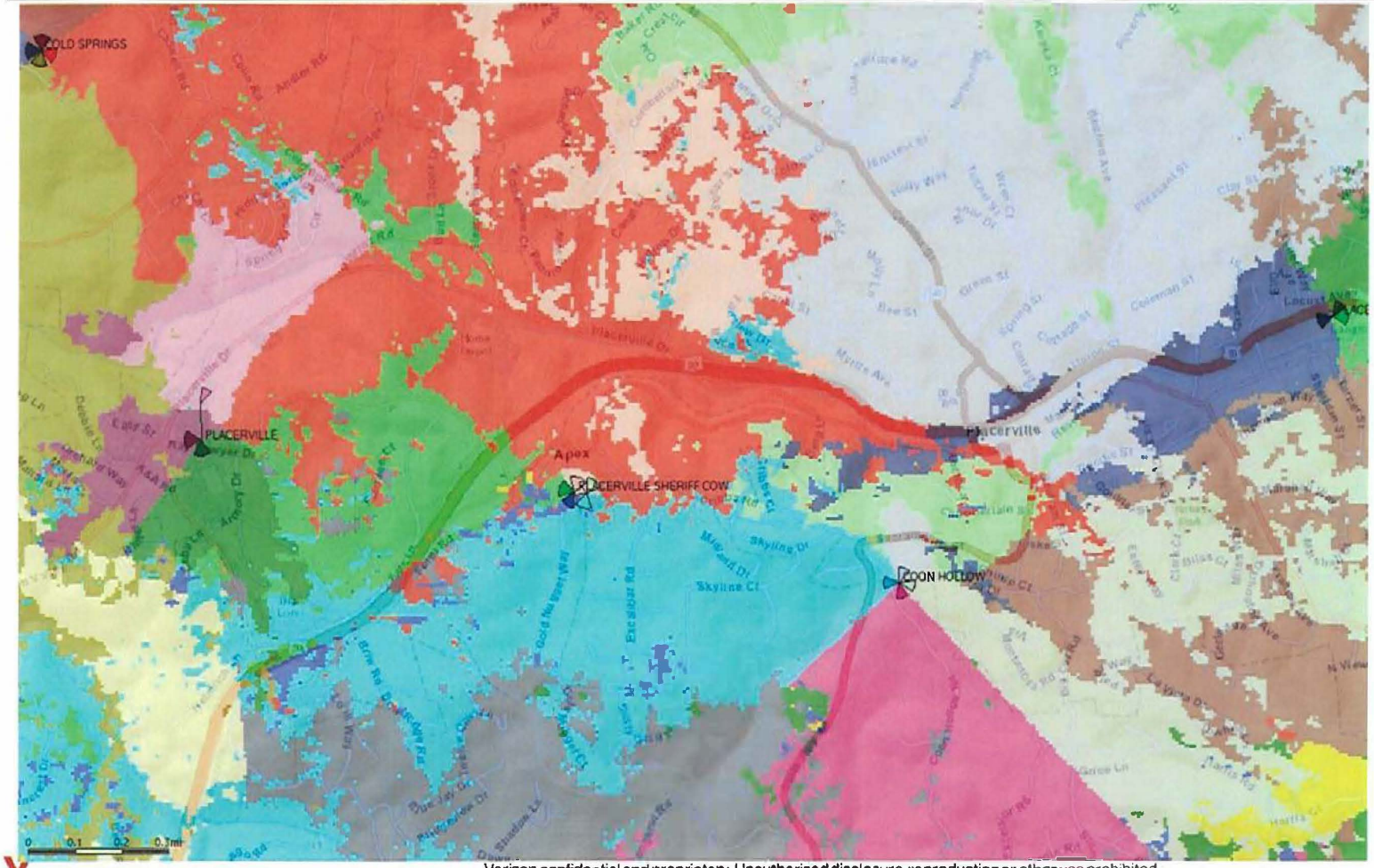

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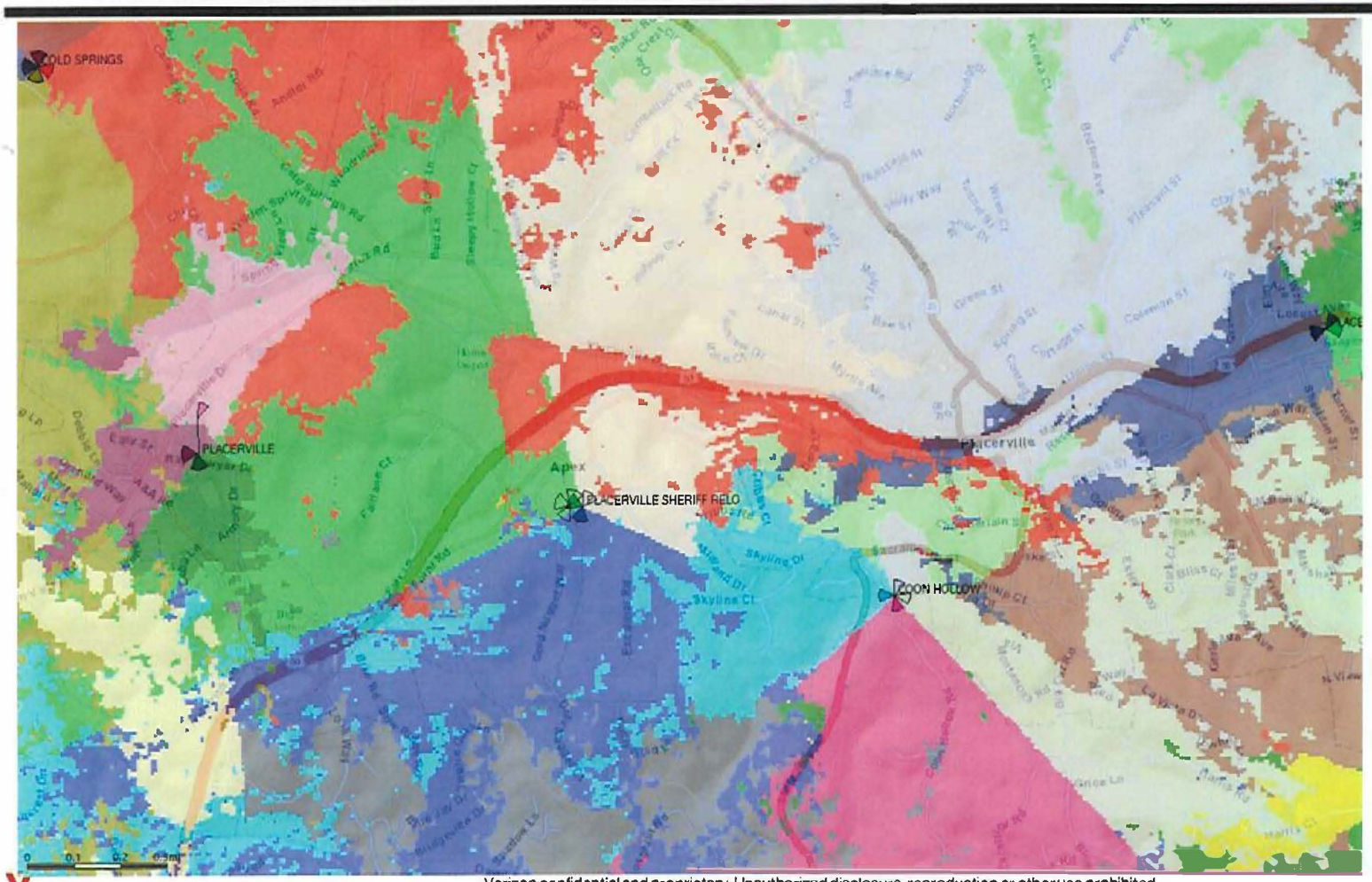
AWS – SERVER WITH RELO/PERM SITE



CUP-R25-0005/ATC Wooden Pole to Monopine
Exhibit I - Alternative Site Analysis

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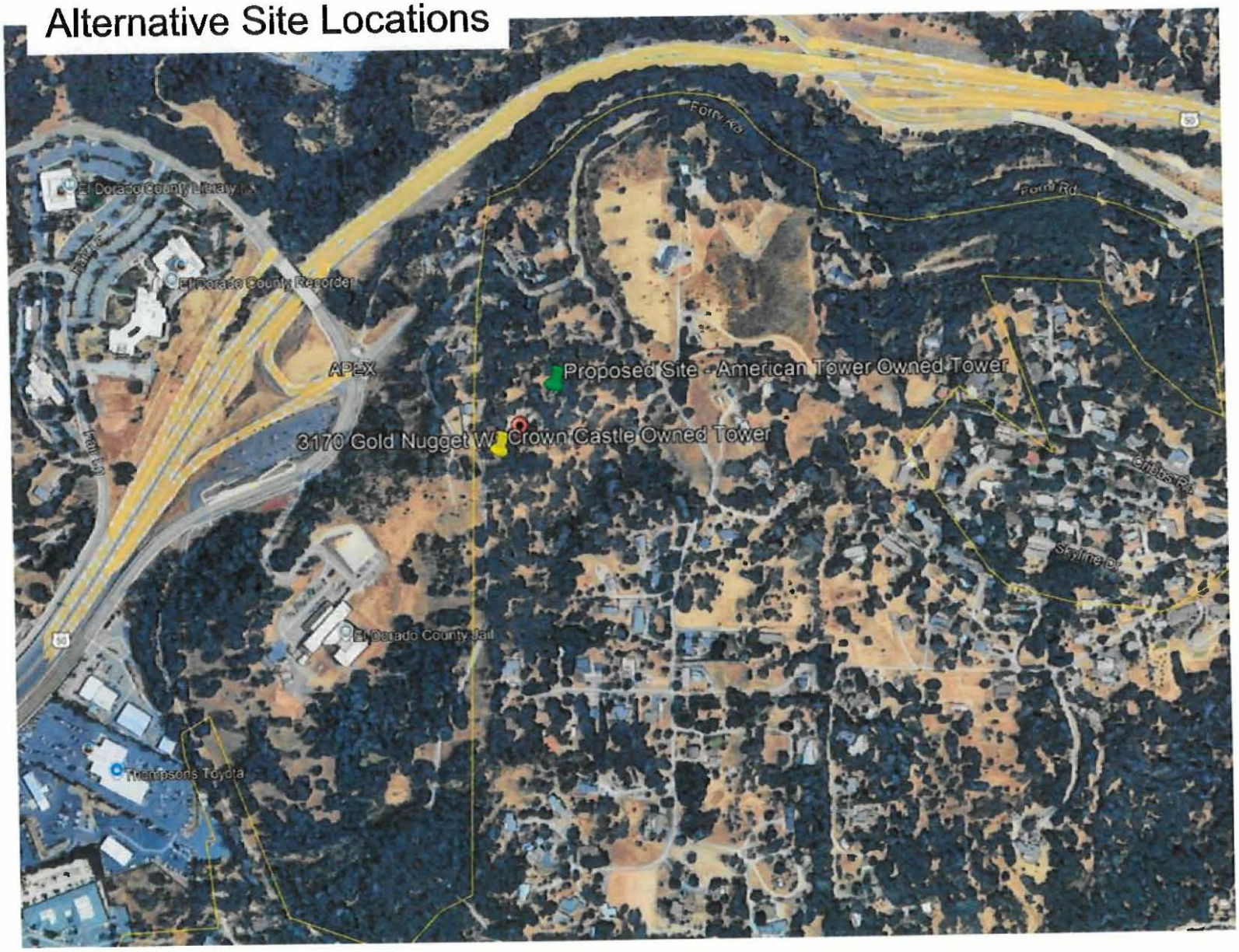
Alternative Site Locations



Green pin - Currently proposed site location (American Tower owned structure)
Yellow pin - The previously evaluated candidate—a Crown Castle–owned structure—had received Planning approval under CUP-R21-0008; however, lease constraints prevented the project from moving forward.

Streamline Engineering and Design, Inc

September 8, 2021

Applicant:
Crown Castle
Placerville Sheriff
BU 827149

Alternative Site Analysis – CUP-R21-0008

Background:

A planning application was submitted on behalf of Crown Castle to replace an existing 60' tall wireless communications tower at an existing wireless communications facility with a new 90' tall, multi-carrier tower. Installing towers that support multiple wireless carriers decreases the need for additional towers in the same area.

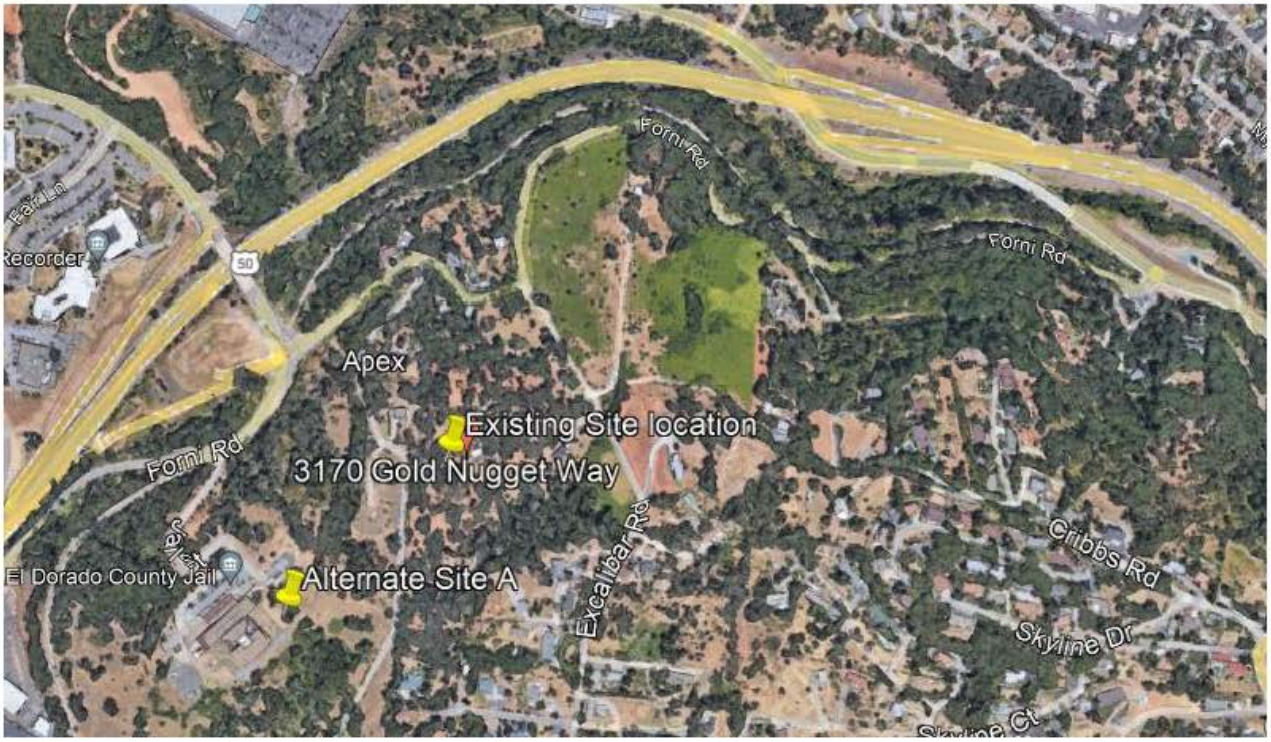
Terrain in this area of Placerville consists of rolling hills and valleys
The location of this facility is optimal based on its relative elevation and provides voice, data and 911 emergency communications to the area. Coverage includes both east and west US50 and residents to the south of US 50 as well as residents to the north of US 50. This facility also provides coverage to the El Dorado Co. Jail and EL Dorado Co. Government Center north of US50.

Alternate Site Analysis:

Two alternate sites were analyzed that had potential to maintain the coverage objectives of the existing facility. Coverage analyzed below. All other parcels were either high-density residential or could not meet the existing coverage objective.

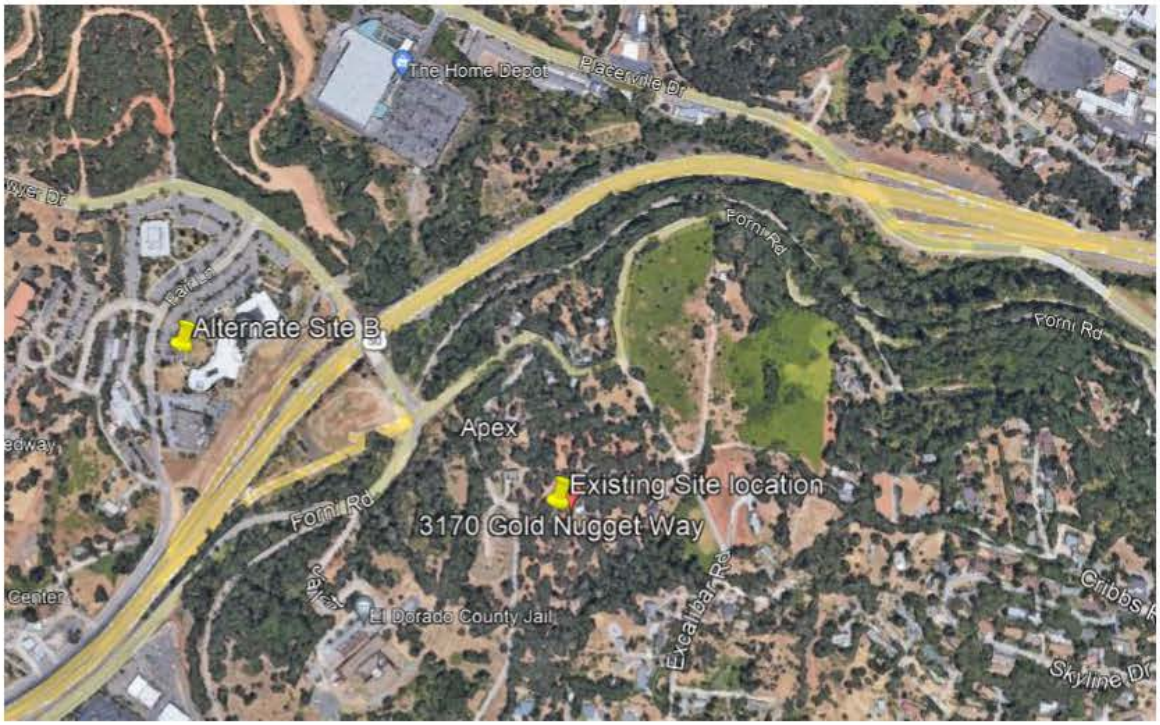
Alternate Site A
El Dorado County Jail
300 Forni Rd,
Placerville Ca

Coverage:
Based on the relative elevation and installing a 90' tower, coverage would be degraded in this location. Ground elevation is approximately 100' lower than the existing site and carriers would lose coverage to residents to the east and southeast, as well as loss of coverage to eastbound US50. In order to maintain existing coverage objectives in this location, a 190' tower would have to be installed.



Alternate Site B
El Dorado County Government Center
Fair Ln.
Placerville CA

Coverage:
Based on the relative elevation and installing a 90' tower, carriers would lose coverage in this location. Coverage to residents south of US50 would be severely degraded as well as eastbound US50. To Maintain similar coverage in this location would require a tower that is approximately 250' tall due the ground elevation being approximately 140' lower than the existing location.



Conditions

1. The applicant shall submit a site improvement/grading plan to the department for review and approval. The plan shall be in conformance with the County of El Dorado *Design and Improvement Standards Manual,* the *Grading, Erosion and Sediment Control Ordinance,* and the *Drainage Manual.*

2. The applicant shall be subject to a grading fee commensurate with the scope of the proposed project.

3. The applicant shall be subject to any and all of the requirements of the El Dorado County Fire Protection District prior to obtaining a building permit.

4. Due to the infrequent intended use of this facility, the on-site access driveway shall be a 10-foot minimum width and surfaced with a minimum of 2 inches of asphalt concrete over 4 inches of aggregate base. The hard surfacing is required by the State Fire Safe Regulations for roads and driveways steeper than 15 percent. Compaction of the sub-grade shall be 90 percent, and compaction of the aggregate base shall be 95 percent. The road shall be graded at a 2 percent cross slope toward the cut side with a roadside ditch for drainage.

   The road shall be maintained in its current condition. If the road deteriorates, it shall be improved to the existing condition.

5. The applicant shall assume full responsibility for resolving television reception interference caused by the operation of this facility. The applicant shall take corrective action within 30 days of the receipt of any written compliant.

6. The applicant shall obtain a building permit from the El Dorado County Building Department.

7. The applicant shall construct a 6-foot-high chain-link fence with brown and or green vinyl slats around the entire perimeter of the 2,400-square-foot facility for security and aesthetics. The above shall be completed and approved by the Planning Department prior to finaling the project.

8. Existing tree coverage that serves as screening shall be maintained and/or replaced to prevent greater exposure to the tower and accessory facilities.

9. No oaks greater than 6 inches at breast height shall be removed without a 1½ to 1 replacement ratio.

Chairman Tolhurst informed the audience of the ten-day appeal period to the Board of Supervisors.

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August 31, 2025

Lauren Jongsma
Epic Wireless
8700 Auburn Folsom Road, Suite 400
Granite Bay, CA 95746

Ref: **Noise Assessment Letter**
3170 Gold Nugget Way
Placerville, CA 95667

The acoustical consultant, Waterford Consultants, has reviewed site plans and equipment noise data related to the proposed installation of the proposed "Placerville Sheriff" unmanned telecommunication facility in El Dorado County, CA for compliance with local & county noise emission restrictions. The following presents their findings.

1.0 ACOUSTIC CRITERIA

El Dorado County establishes the following noise limits for noise emissions by non-transportation sources impacting sensitive land uses:

El Dorado County Ordinance Code - Table 130.37.060.1

Noise Level Descriptor	Daytime 7 a.m. – 7 p.m.		Evening 7 p.m. – 10 p.m.		Night 10 p.m. – 7 a.m.	
	Community / Rural Centers	Rural Regions	Community / Rural Centers	Rural Regions	Community / Rural Centers	Rural Regions
Hourly Leq, dBA	55	50	50	45	45	40
Maximum Level, dBA	70	60	60	55	55	50

The code indicates that these limits shall be applied in Community Regions at the property line of the receiving property, or in rural centers/regions at a point 100 feet away from a sensitive receptor. It further stipulates that the noise limit shall be lowered by 5 dBA for simple tone noises, noises consisting primarily of unamplified speech or music, or for recurring impulsive noises. The use of emergency equipment is exempted from these limits per section 130.37.20(B).

2.0 PROJECT SUMMARY

The Placerville Sheriff project reuses an existing abandoned cellular site and replaces key functional components. The scope includes a new 75 foot tall monopine tower with 17 Verizon wireless antennae and associated electronics. Identified noise generating equipment include two air

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conditioning HVAC units to be installed into the existing equipment shelter and a standby backup generator rated for 50kW.

The project site is located in a rural residential area of Placerville, CA upon a leased portion of the El Dorado County property lot 325-290-006. The nearest adjacent lots to the property are lots 325-290-005 to the North, and 325-290-027 to the West.

3.0 NOISE ANALYSIS

3.1 HVAC units

We have reviewed submittal data for Bard type HR58APA05EP "Fusion-Tec" air conditioning HVAC units. These units are rated by the manufacturer for a maximum sound level of 70.7 dBA as measured 10 feet from the outdoor portion of the equipment. This noise level is attributable primarily to the operation of the two-stage scroll compressor and variable speed condenser fan. The unit is designed to utilize "free cooling" opportunities due to cool outdoor temperatures to operate at lower speeds which will reduce both power consumption and noise emissions.

3.2 Generator

We have reviewed submittal data for the Generac type SD50 generator set. The generator is shown equipped with a Level-2 sound attenuated enclosure and integral exhaust silencer. This generator set and enclosure are rated by the manufacturer for a sound pressure level of 71 dBA as measured from a distance of 7 meters (23 feet) under 100% load.

Based on our review of the site plan, the following tables show our projected sound impacts to the adjacent residential zoned properties.

Table 1: Maximum Noise Projections to residential lot 325-290-027 (West)

Device	Maximum Sound Level	Distance to property line	Projected Sound Level
HVAC Units (qty-2)	70.7 dBA @ 10ft (ea)	255 ft	45 dBA
Generator	71 dBA @ 23 ft	275 ft	51 dBA
Total with Generator			**52 dBA**

Table 2: Maximum Noise Projections to residential lot 325-290-005 (North)

Device	Maximum Sound Level	Distance to property line	Projected Sound Level
HVAC Units (qty-2)	70.7 dBA @ 10ft (ea)	175 ft	48 dBA
Generator	71 dBA @ 23 ft	185 ft	54 dBA
Total with Generator			**55 dBA**

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As shown, we expect that normal operation of the proposed air conditioning equipment will not exceed a sound level of 48 dBA to any nearby residential property at any time, even when operating at maximum conditions, which complies with all county maximum level requirements for community & rural center adjacencies. During nighttime hours (10pm-7am) when cooling demand is lower due to outdoor temperatures, we expect the average hourly noise levels to drop below the strictest 45 dBA requirement for hourly average noise impacts to the adjacent properties.

We project that operation of the standby generator under full load, in combination with the proposed air conditioning equipment, will not exceed a sound level of 55 dBA at any nearby residential property. While the operation of emergency equipment is specifically exempt from the county noise ordinance, we do note that this level may exceed the established evening and nighttime noise limits. We recommend that all generator maintenance testing intervals be scheduled to occur during daytime hours (7am-7pm) when the noise ordinance is most permissive

Based on the above discussion and operational recommendations, we find that the proposed equipment will comply with the El Dorado County noise ordinance.

This concludes our comments at this time. Should you have any questions or comments, please do not hesitate to contact us.

Very truly Yours,

Thomas E. Kaytt