



LAKE CACHUMA PSL # 276864

2680 HWY 154
SANTA BARBARA CA, 93105

811 CALL 811
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CONTRACTOR TO CALL TO VERIFY UTILITIES AT LEAST TWO WORKING DAYS PRIOR TO DIGGING

Know what's below.
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REV.	DATE	DESCRIPTION	BY
0	02/17/15	90% CONSTRUCTION	SR
1	02/26/15	95% CONSTRUCTION	SR
2	03/16/15	OUTDOOR EQUIPMENT	EC

SAC WIRELESS
ENGINEERING GROUP

5865 AVENIDA ENCINAS
CARLSBAD, CA 92008
www.sacw.com
760.795.5200

PROPRIETARY INFORMATION
THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS
ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED

verizon
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

verizon

LAKE CACHUMA
PSL # 276864
2680 HWY 154
SANTA BARBARA CA, 93105

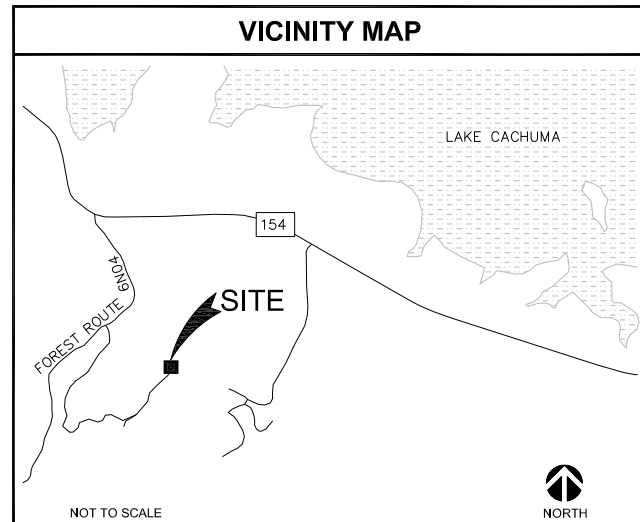
SHEET TITLE:
TITLE SHEET

T-1

SPECIAL INSPECTIONS - 2013 CBC CHAP. 17A				
ITEM	MATERIAL	REQUIRED	2013 CBC	STANDARDS
GENERATOR	HILTI KWIK BOLT TZ STAINLESS STEEL	PERIODIC BASIS	1705A.3 ITEM 4	ICC ESR-1917 SECTION 4.4
CONCRETE	CONCRETE	PERIODIC BASIS	1705A.3	
50' TALL MONOEUCALYPTUS TOWER	REFER TO TOWER DRAWINGS / CALCS			

PROJECT TEAM

<p>SITE ACQUISITION SAC WIRELESS, LLC. 211 EAST CARILLO STREET SUITE 201 SANTA BARBARA, CA 93101 CONTACT: JAY HIGGINS TELEPHONE: (805) 637-6670 JAY.HIGGINS@SACW.COM</p>	<p>PLANNING SAC WIRELESS, LLC. 211 EAST CARILLO STREET SUITE 201 SANTA BARBARA, CA 93101 CONTACT: JAY HIGGINS TELEPHONE: (805) 637-6670 JAY.HIGGINS@SACW.COM</p>
<p>ARCHITECT: SAC WIRELESS, LLC. NESTOR POPOWYCH, AIA 5865 AVENIDA ENCINAS SUITE 142-B CARLSBAD, CA 92008 CONTACT: CARLOS CASTELLANOS TELEPHONE: (760) 795-5211 FAX: (760) 931-0908</p>	<p>SURVEYOR: SMITHCO SURVEYING ENGINEERING P.O. BOX 81626 BAKERSFIELD, CA 93380 CONTACT: GREG SMITH TELEPHONE: (661) 393-1217</p>
<p>UTILITY COORDINATOR: SAC WIRELESS, LLC. 450 DEER CANYON ROAD BUELLTON, CA 93427 CONTACT: KELLY MCCURRIN TELEPHONE: (805) 686-4039</p>	



DRIVING DIRECTIONS

FROM: 2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

TO: 2680 HWY 154
SANTA BARBARA CA, 93105

1. HEAD NORTHEAST ON MITCHELL DR TOWARD OAK GROVE RD
2. TAKE THE 1ST LEFT ONTO OAK GROVE RD
3. TURN LEFT ONTO TREAT BLVD
4. TURN RIGHT ONTO N MAIN ST
5. TURN RIGHT ONTO THE INTERSTATE 680 S RAMP TO OAKLAND/SAN JOSE
6. MERGE ONTO I-680 S
7. TAKE THE EXIT ONTO US-101 S TOWARD LOS ANGELES
8. TAKE THE CA-154 EXIT TOWARD LOS OLIVOS/LAKE CACHUMA
9. TURN LEFT ONTO CA-154 E/SAN MARCOS PASS RD
10. TURN RIGHT ONTO FOREST RTE 6N04

PROJECT DESCRIPTION

THIS PROJECT IS A VERIZON UNMANNED TELECOMMUNICATION WIRELESS FACILITY. IT WILL CONSIST OF THE FOLLOWING:

- NEW VERIZON WIRELESS OUTDOOR EQUIPMENT CABINET ON NEW 4'-0" X 14'-0" CONCRETE SLAB
- (12) NEW VERIZON WIRELESS 6' TALL PANEL ANTENNAS
- (1) NEW VERIZON WIRELESS 2.5' Ø MICROWAVE ANTENNA
- (9) NEW VERIZON WIRELESS RRUS
- (2) NEW VERIZON WIRELESS GPS ANTENNAS
- (1) NEW VERIZON WIRELESS 50'-0" TALL MONOEUCALYPTUS
- (1) NEW VERIZON WIRELESS 30KW / 132 GALLON (UL 142) DIESEL STANDBY GENERATOR ON NEW 6'-0" X 12'-0" CONCRETE PAD
- (4) NEW VERIZON WIRELESS RAYCAPS
- (1) NEW VERIZON WIRELESS ELECTRICAL METER W/ FUSED DISCONNECT ON NEW H-FRAME
- NEW VERIZON WIRELESS 8'-0" TALL CHAIN-LINK FENCE
- (1) NEW VERIZON WIRELESS TRANSFORMER ON NEW 3'-0" X 3'-0" CONCRETE PAD

PROJECT SUMMARY

APPLICANT/LESSEE verizon 2785 MITCHELL DRIVE, BLDG 9 WALNUT CREEK, CA 94598 OFFICE: (925) 279-6000	ASSESSOR'S PARCEL NUMBER 145-200-005
APPLICANT'S REPRESENTATIVE SAC WIRELESS, LLC 450 DEER CANYON ROAD BUELLTON, CA 93427 CONTACT: KELLY MCCURRIN TELEPHONE: (805) 686-4039	
PROPERTY OWNER: OWNER: LOS PADRES COUNCIL BOY SCOUTS OF AMERICA	
PROPERTY INFORMATION: SITE NAME: LAKE CACHUMA SITE NUMBER: 276864 SITE ADDRESS: 2680 HWY 154 SANTA BARBARA CA, 93105 JURISDICTION: SANTA BARBARA COUNTY	
CONSTRUCTION INFORMATION AREA OF CONSTRUCTION: 22'-6" x 39'-5" = 882 SQ FT OCCUPANCY: U TYPE OF CONSTRUCTION: V-B CURRENT ZONING: AG-100 HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.	

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS IF NOT FULL SIZE (24 X 36)

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

CODE COMPLIANCE

- 2013 CALIFORNIA ENERGY CODE
- 2013 CALIFORNIA BUILDING CODE
- 2013 CALIFORNIA ELECTRICAL CODE
- 2013 CALIFORNIA FIRE CODE
- 2013 CALIFORNIA GREEN BUILDING CODE
- 2013 CALIFORNIA MECHANICAL CODE
- 2013 CALIFORNIA PLUMBING CODE

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	2
T-2	NOTES, LEGEND & ABBREVIATIONS	2
T-3	GENERAL NOTES & SPECIFICATIONS	2
C-1	SITE SURVEY	4
C-2	SITE SURVEY	4
A-1	SITE PLAN & ENLARGED SITE PLAN	2
A-2	EQUIPMENT & ANTENNA LAYOUT	2
A-3	SOUTHWEST & NORTHWEST ELEVATIONS	2
A-4	NORTHEAST & SOUTHEAST ELEVATIONS	2
A-5	EQUIPMENT SCHEMATIC	2
A-6	DETAILS	2
A-7	DETAILS	2
A-8	STANDBY GENERATOR SPECS & ANCHORAGE DETAILS	2
E-1	1-LINE DIAGRAM, PANEL SCHEDULE & UTILITY NOTES	2
E-2	PG&E CONSTRUCTION SKETCH & 1-LINE DIAGRAM	2
G-1	GROUNDING PLAN & NOTES	2
G-2	GROUNDING DETAILS	2
50'-0" TALL MONOEUCALYPTUS BY CELL TREES INC.		
T-1	TITLE SHEET	0
S-1	ELEVATION VIEW AND NOTES	0
S-2	DETAILS	0
S-3	ANTENNA MOUNT DETAILS	0
S-4	FOUNDATION	0
S-5	SPECIAL INSPECTION AND BRANCH TABLES	0

CONSTRUCTION DRAWINGS

SAC WIRELESS SIGNATURE BLOCK

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION:		
PLANNER:		
CONSTRUCTION:		6/30/15
LANDLORD:		

VERIZON WIRELESS SIGNATURE BLOCK

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION:		
CONSTRUCTION:	APPROVED By Michael nichols at 11:10 am, Jul 02, 2015	
RADIO:		
MICROWAVE:		
TELCO:		
EQUIPMENT:	REVIEWED By Alex Angkham at 4:10 pm, Jul 04, 2015	
PROJECT ADMINISTRATOR:		
WO ADMINISTRATOR:		

GENERAL FIRE NOTES: (SFM)

- BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2013 CFC SECTION 1401.
- ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. [2013 CFC SECTION 505.1]
- DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION. [2013 CFC SECTION 807-1.2]
- PORTABLE FIRE EXTINGUISHERS: AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B:C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. [2013 CFC SECTION 906.1.1 AND SECTION 906.3.1]

STORM WATER QUALITY NOTES CONSTRUCTION BMP'S:

- NOTES 1-5 BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMP'S
- SUFFICIENT BMP'S MUST BE INSTALLED TO PREVENT SILT, MUD OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEM DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREACH IN THE INSTALLED CONSTRUCTION BMP'S.
 - A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED INTO PLACE ON THE SITE.
 - ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES.
 - ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
 - THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.

NOTES

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	NEW ANTENNA		PROPERTY/LEASE LINE		(E) MASONRY		E	ELECTRICAL CONDUIT (POWER)
	EXISTING ANTENNA		CENTERLINE		CONCRETE		OH/E	OVERHEAD ELECTRICAL (POWER)
	GROUND ROD		MATCH LINE		EARTH		UG/E	UNDERGROUND ELECTRICAL (POWER)
	GROUND BUS BAR		WORK POINT		GRAVEL		T	TELEPHONE CONDUIT
	MECHANICAL GRND. CONN.		GROUND CONDUCTOR		GROUT OR PLASTER		OH/T	OVERHEAD TELCO
	CADWELD		GRID REFERENCE		PLYWOOD		UG/T	UNDERGROUND TELCO
	GROUND ACCESS WELL		DETAIL REFERENCE		SAND		E/T	ELECTRICAL / TELCO CONDUIT (POWER & FIBER)
	ELECTRIC BOX		ELEVATION REFERENCE		STEEL		OH/ET	OVERHEAD POWER & TELCO
	TELEPHONE BOX		SECTION REFERENCE		EXISTING CHAIN-LINK FENCING		UG/ET	UNDERGROUND POWER & TELCO
	LIGHT POLE		WOOD CONT.		NEW CHAIN-LINK FENCING		CC	COAXIAL CABLE
	FND. MONUMENT		WOOD BLOCKING		WROUGHT IRON FENCING		F	FIBER / HYBRID
	SPOT ELEVATION				WOOD FENCING			
	SET POINT							
	REVISION							

LEGEND

3

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

NOT USED

1

ABBREVIATIONS

4

ISSUE STATUS

REV.	DATE	DESCRIPTION	BY
0	02/17/15	90% CONSTRUCTION	SR
1	02/26/15	95% CONSTRUCTION	SR
2	03/16/15	OUTDOOR EQUIPMENT	EC



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LAKE CACHUMA
PSL # 276864
2680 HWY 154
SANTA BARBARA CA, 93105

SHEET TITLE:
NOTES, LEGEND & ABBREVIATIONS

T-2

GENERAL

- THIS FACILITY IS AN UNMANNED CELLULAR TELEPHONE EQUIPMENT FACILITY. THE OCCUPANCY CLASSIFICATION IS U [2013 CBC, TITLE 24, PART 2, VOLUME 1, SECTION 312, AND SECTION 307.1 EXCEPTION #9].
- THIS FACILITY IS EXEMPT FROM HANDICAP REQUIREMENTS PER 2013 CBC SECTION 11B-203.5 EXCEPTION #1 THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
- THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION, INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
- A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/THIRD DRAWINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, AND 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
- THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
- WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
- THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
- ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
- THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA. [2013 CFC SECTION 906-1-1 AND SECTION 906.3.1]
- MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
- BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
- ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.

SPECIFICATIONS

SITework

- THE PREPARATION OF THE SITE FOR CONSTRUCTION SHALL INCLUDE THE REMOVAL OF ALL BROKEN CONCRETE, TREE TRUNKS AND ANY OTHER DEBRIS THAT WOULD BE DAMAGING TO THE FOOTINGS OF THE NEW STRUCTURE.
- BACKFILLING AT NEW TRENCHES SHALL BE OF CLEAN, STERILE SOIL HAVING A SAND EQUIVALENT OF 30 OR GREATER. BACKFILLING SHALL BE DONE IN 8 INCH LAYERS, MOISTURE CONDITIONED AND PROPERLY COMPACTED TO SPECIFIED COMPACTION PERCENTAGE PER ASTM D1557 (90% MIN.). ADEQUATE DRAINAGE SHALL BE PROVIDED SUCH THAT NO PONDING OCCURS AFTER THESE RECOMMENDATIONS ARE APPROVED BY THE PROJECT MANAGER AND ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
- ALL FOUNDATION FOOTINGS SHALL EXTEND INTO AND BEAR AGAINST NATURAL UNDISTURBED SOIL OR APPROVED COMPACTED FILL. FOOTINGS SHALL EXTEND INTO SOIL DEPTH INDICATED ON DETAILS.
- SHOULD ANY LOOSE FILL, EXPANSIVE SOIL, GROUND WATER OR ANY OTHER DANGEROUS CONDITIONS BE ENCOUNTERED DURING THE EXCAVATION FOR THE NEW FOUNDATION, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER OR OWNER'S REPRESENTATIVE AND ALL FOUNDATION WORK SHALL CEASE IMMEDIATELY.
- REFER TO GEOTECHNICAL REPORT PREPARED BY: SALEM ENGINEERING GROUP INC., DATED ON OCTOBER 3, 2014 FOR ANY ADDITIONAL RECOMMENDATIONS AND SITE PREPARATIONS.

CONCRETE

REINFORCEMENT

- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 40, DEFORMED UNLESS OTHERWISE NOTED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE, SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD U.N.O.
- LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS.
- BARS NOTED "CONT.", TYPICAL WALL REINFORCING, AND VERTICAL COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL 40 BAR DIAMETERS LAP, OR 24" WHICHEVER IS GREATER.
- REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICE AT OTHER LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4'-0" MINIMUM UNLESS OTHERWISE NOTED.
- ALL REINFORCING, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
- #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF THE ENGINEER.
- PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE:

BELOW GRADE (UNFORMED)	3"	CLEAR
BELOW GRADE (FORMED)	2"	CLEAR
WALLS	1"	CLEAR
COLUMNS	1 1/2"	CLEAR
BEAMS AND GIRDERS	1 1/2"	CLEAR
STRUCTURAL SLAB (ABOVE GRADE)	3/4"	CLEAR

CONCRETE (GENERAL)

- STRUCTURAL FILL AND BACKFILL SHOULD CONSIST OF A NON-EXPANSIVE GRANULAR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER AND PLACED IN UNIFORM 6" LIFTS.
- STRUCTURAL FILL PLACED FOR SUPPORT OF FOUNDATION SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY FROM ASTM D698 (STANDARD PROCTOR).
- STRUCTURAL FILL UNDERNEATH FOUNDATIONS AND SLABS SHALL BE COMPACTED WITH A SMOOTH VIBRATORY COMPACTION DEVICE PRIOR TO CONCRETE PLACEMENT.
- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318.
- ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSL UNLESS OTHERWISE SPECIFIED. WATER CEMENTITIOUS MATERIAL/RATIO AND AIR CONTENT SHALL COMPLY WITH ACI 318 SECTION 4.1 & 4.2.
- CEMENT FOR CONCRETE OR MASONRY MORTAR SHALL BE TYPE V "PORTLAND CEMENT" AND CONFORM TO ASTM C-150 STANDARDS. UNLESS OTHERWISE SPECIFIED IN GEOTECH REPORT OR IN THE DRAWINGS.
- AGGREGATE FOR CONCRETE SHALL CONFORM TO ASTM C-33 STANDARDS.
- CONCRETE SHALL BE DEPOSITED IN ACCORDANCE WITH 318 SECTION 5.10 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE.
- COLD WEATHER AND HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 318 SECTION 4-2, AND SECTIONS 5-12 & 5-13.
- AFTER PLACEMENT, THE CONCRETE SHALL BE COVERED WITH A PLASTIC VAPOR BARRIER FOR A 4 TO 7 DAY INITIAL CURING PERIOD.
- A MINIMUM OF THREE CONCRETE TEST CYLINDERS SHALL BE TAKEN, ONE SHALL BE TESTED AT 7 DAYS, ONE AT 28 DAYS, AND ONE HOLD CYLINDER, UNLESS OTHERWISE SPECIFIED BY GOVERNING AGENCY.
- FLOOR SLABS SHALL CONFORM TO ASTM C-38 STANDARDS AND SHALL BE 3 1/2 INCHES MINIMUM THICK - SEE FOUNDATION PLANS FOR REINFORCEMENT, BASE, UNDERLAYMENT, VAPOR BARRIER OR OTHER SPECIFIC REQUIREMENTS.
- FLOOR SLABS SHALL BE LEVEL OR TRUE SLOPES AS SHOWN ON DRAWINGS. TOLERANCE: 1/8 INCH IN 10 FEET.
- TOP OF CONCRETE SLAB TO BE 6" MINIMUM ABOVE FINISH GRADE, UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS.
- ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER.
- ALL EXTERIOR CONCRETE WALLS, PORCHES AND PLATFORMS ON SITE TO HAVE A ROCK SALT FINISH, (U.O.N.)
- CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATE PLACEMENT OF ALL ROUGH HARDWARE AND ALL ITEMS OF OTHER TRADES REQUIRED TO BE EMBEDDED IN CONCRETE WORK.

METALS

STRUCTURAL FRAMING SYSTEM AND EQUIPMENT

- CABLE LADDERS AT INTERIOR SPACES WHERE INDICATED SHALL BE 1-1/2" SOLID BAR STRINGERS TYPE
- ALL UNISTRUT SHALL BE P1000 (1-5/8").
- MICROFLECT SHALL BE B 1 1 1 8 (U.N.O.) TO MATCH CABLE TRAY.
- CABLE RUNS ON ROOF TOP AND OUTDOOR APPLICATIONS, SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- ALL ANTENNA SPECS. PER RF DATA SHEET.

STRUCTURAL METAL

- ALL STRUCTURAL STEEL SHALL COMPLY WITH MOST RECENT ASTM A-36 STANDARDS.
- ALL CONNECTIONS AND FABRICATIONS SHALL COMPLY WITH MOST RECENT A.I.S.C. SPECIFICATIONS.
- ALL WELDING SHALL BE PERFORMED BY OPERATORS WHO HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN MOST RECENT "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY.
- USE ALL MEANS NECESSARY TO PROTECT STRUCTURAL STEEL BEFORE, DURING AND AFTER INSTALLATION AND TO PROTECT THE INSTALLED WORK AND MATERIALS OF ALL OTHER TRADES.
- IN THE EVENT OF DAMAGE IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF AND AT NO ADDITIONAL COST TO THE OWNER.
- HIGH-STRENGTH BOLTS SHALL COMPLY WITH ASTM A-325 N. BEARING TYPE CONNECTION WITH THREADS INCLUDED IN SHEAR PLANE.
- OTHER MACHINE BOLTS AND ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A-307 7. WELDS SHALL BE MADE WITH ASTM-233, E-70 SERIES ELECTRODES FOR STEEL TO STEEL CONNECTIONS. WELDING OF REINFORCING BARS SHALL BE DONE WITH ELECTRODES AS APPROVED BY A CERTIFIED TESTING LABORATORY.
- ALL FRAMING CONNECTORS SUCH AS CONCRETE ANCHORS, HOLD-DOWNS, POST BASES, FRAMING CAP, HANGER AND OTHER MISCELLANEOUS STRUCTURAL METALS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE CO. OR APPROVED EQUIVALENT.
- ALL EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZING AFTER FABRICATION.
- ALL WELDING DONE AFTER GALVANIZING SHALL BE PROTECTED WITH TWO (2) COATS OF "GALVANIZED" OR "GALVALOY"

MECHANICAL

- REFER TO DRAWINGS FOR SITE SPECIFIC INFORMATION.
- ALL MECHANICAL EQUIPMENT AND INSTALLATION TO COMPLY TO LATEST EDITION OF THE CALIFORNIA MECHANICAL CODE. (REFER TO THE COVER SHEET)
- ALL PLUMBING TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE. (REFER TO THE COVER SHEET)
- BEFORE STARTING TRENCHING, THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING LINES AFFECTED BY THE CONTRACT AND IMMEDIATELY NOTIFY THE PROJECT MANAGER IF ANY REROUTING OF EXISTING LINES NECESSARY.
- HVAC SYSTEM (REFER TO DRAWINGS)

ELECTRICAL

- REFER TO DRAWINGS FOR SITE SPECIFIC INFORMATION
- ALL ELECTRIC WORK TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE. (REFER TO THE COVER SHEET)
- ALL INTERIOR SEISMIC UNISTRUT SHALL BE GROUNDED WITH #6 STRANDED COPPER WITH GREEN JACKET. ALL CONNECTIONS TO BE DOUBLE LUG.
- BEFORE STARTING TRENCHING, THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING LINES AFFECTED BY THE CONTRACT AND IMMEDIATELY NOTIFY THE PROJECT MANAGER IF ANY REROUTING OF EXISTING LINES IS NECESSARY.

ISSUE STATUS

REV.	DATE	DESCRIPTION	BY
0	02/17/15	90% CONSTRUCTION	SR
1	02/26/15	95% CONSTRUCTION	SR
2	03/16/15	OUTDOOR EQUIPMENT	EC



SAC
WIRELESS
ENGINEERING GROUP
5855 AVENIDA ENCINAS
CARLSBAD, CA 92008
www.sacw.com
760,795,5200

PROPRIETARY INFORMATION
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ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED



2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

LAKE CACHUMA
PSL # 276864
2680 HWY 154
SANTA BARBARA CA, 93105

SHEET TITLE:
GENERAL NOTES & SPECIFICATIONS

T-3

NOTES

OWNER(S): LOS PADRES COUNCIL BOY SCOUTS OF AMERICA

APN: 145-200-005

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY OF ANY PARCEL OF LAND, NOR DOES IT IMPLY OR INFER THAT A BOUNDARY SURVEY WAS PERFORMED. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION. PROPERTY LINES AND LINES OF TITLE WERE NEITHER INVESTIGATED NOR SURVEYED AND SHALL BE CONSIDERED APPROXIMATE ONLY. NO PROPERTY MONUMENTS WERE SET.

THE EASEMENTS (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN PLOTTED BASED SOLELY ON INFORMATION CONTAINED IN THE CONDITION OF TITLE REPORT BY: FIRST AMERICAN TITLE COMPANY, ORDER NO. 4201-4568493, DATED FEBRUARY 4, 2014. WITHIN SAID TITLE REPORT THERE ARE FIFTEEN (15) EXCEPTIONS LISTED, THREE (3) OF WHICH ARE EASEMENTS AND TWO (2) OF WHICH CAN NOT BE PLOTTED.

THE UNDERGROUND UTILITIES (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN LOCATED BY FIELD OBSERVATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD RATE MAP FOR COMMUNITY NO. 06083C, PANEL NO. 1115F, IS A NON-PRINTED PANEL.

LESSOR'S PROPERTY LEGAL DESCRIPTION PER TITLE REPORT:

REAL PROPERTY IN THE UNINCORPORATED AREA OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

PARCEL NO. 1:
GOVERNMENT LOTS ONE (1) AND TWO (2), AND THE SOUTH HALF (S 1/2) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION THIRTY-TWO (32), TOWNSHIP SIX (6) NORTH, RANGE TWENTY-NINE (29) WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, ACCORDING TO GOVERNMENT SURVEY.

PARCEL NO. 2:
ALL OF LOT FOUR (4), A PORTION OF LOT THREE (3), AND A PORTION OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION THIRTY-THREE (33), TOWNSHIP SIX (6) NORTH, RANGE TWENTY-NINE (29) WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, ACCORDING TO GOVERNMENT SURVEY THEREOF, DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHWEST CORNER OF SAID LOT 4; THENCE SOUTH, ALONG THE WESTERLY LINE OF SAID LOT 4, TO THE SOUTHWEST CORNER THEREOF; THENCE EAST, ALONG THE SOUTH LINE OF SAID LOT, TO THE SOUTHEAST CORNER THEREOF, BEING ALSO THE NORTHWEST CORNER OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SAID SECTION; THENCE SOUTH 1320 FEET TO THE SOUTHWEST CORNER OF SAID NORTHEAST QUARTER (NE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4), BEING ALSO THE NORTHWEST CORNER OF THE TRACT OF LAND SECONDLY DESCRIBED IN THE DEED TO ADRIAN H. COOLEY, ET UX., RECORDED DECEMBER 26, 1933, IN BOOK 295, AT PAGE 11 OF OFFICIAL RECORDS OF SAID COUNTY; THENCE EAST, ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SAID SECTION 33, 1070.27 FEET TO THE SOUTHWEST CORNER OF THE TRACT OF LAND FIRSTLY DESCRIBED IN SAID DEED TO COOLEY ABOVE MENTIONED; THENCE NORTH 1645.06 FEET ALONG THE WEST LINE OF SAID TRACT OF COOLEY FIRSTLY DESCRIBED IN SAID DEED, TO THE NORTHERLY LINE OF SAID LOT 3; THENCE NORTH 62'40" WEST, ALONG THE NORTH LINE OF SAID LOTS 3 AND 4, TO THE POINT OF BEGINNING.

APN: 145-200-005 AND 145-200-006

EASEMENT(S) PER TITLE REPORT:

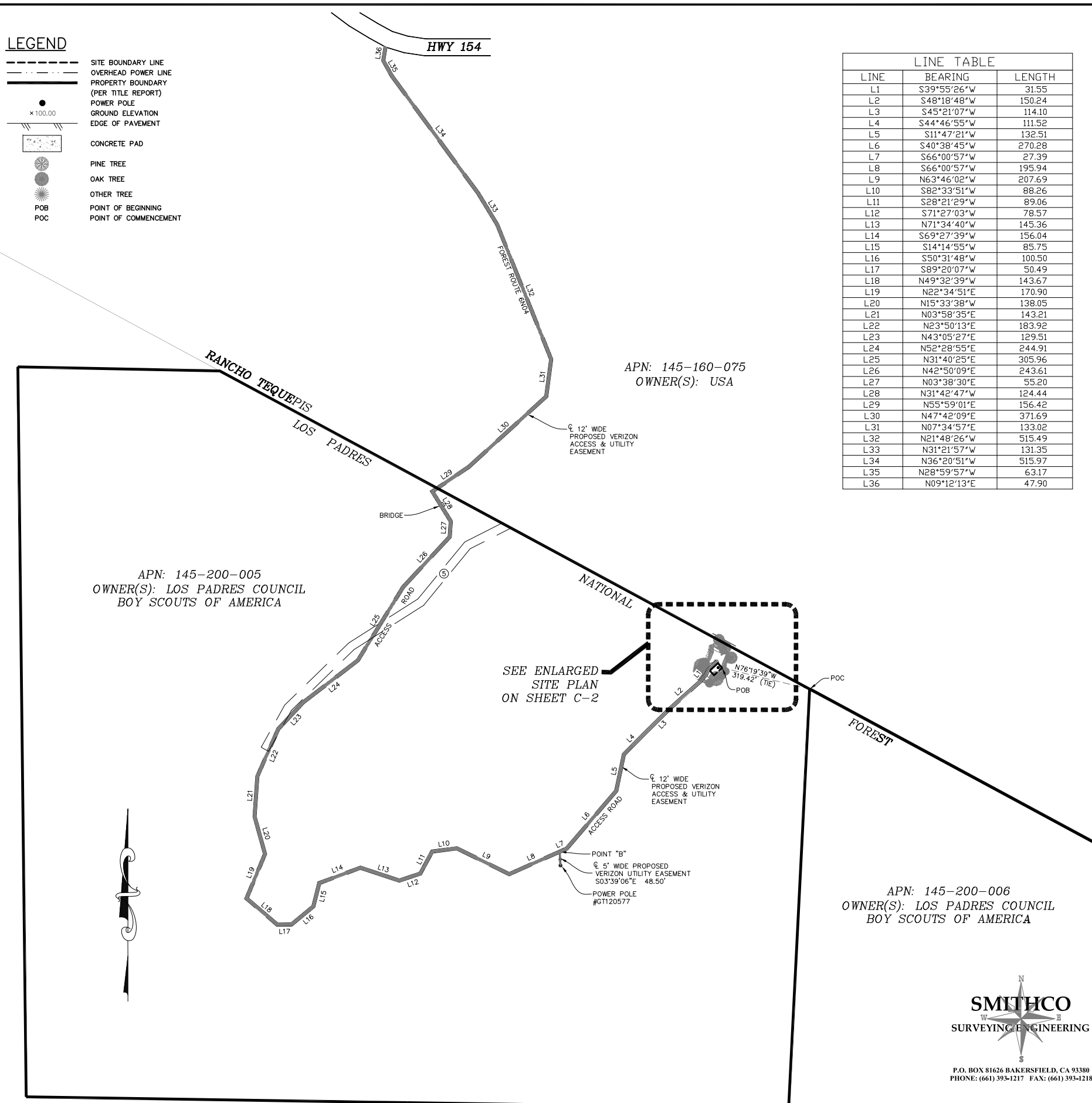
4. A RIGHT OF WAY FOR DITCHES AND CANALS AS RESERVED BY THE UNITED STATES OF AMERICA IN THE PATENT RECORDED SEPTEMBER 2, 1903 IN BOOK D OF PATENTS, PAGE 173. THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.

5. AN EASEMENT FOR MAINTENANCE AND INCIDENTAL PURPOSES, RECORDED SEPTEMBER 24, 1935 IN BOOK 350, PAGE 66 OF OFFICIAL RECORDS. IN FAVOR OF: THE UNITED STATES OF AMERICA AFFECTS: AS DESCRIBED THEREIN *** PLOTTED AS SHOWN HEREON ***

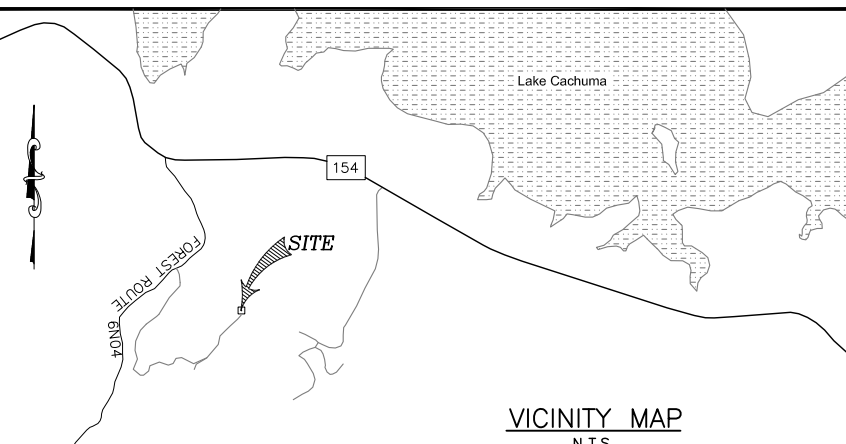
6. AN EASEMENT FOR POLE LINES AND INCIDENTAL PURPOSES, RECORDED NOVEMBER 24, 1937 IN BOOK 418, PAGE 148 OF OFFICIAL RECORDS. IN FAVOR OF: SANTA BARBARA TELEPHONE COMPANY, A CORPORATION AFFECTS: AS DESCRIBED THEREIN THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.

LEGEND

- SITE BOUNDARY LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY (PER TITLE REPORT)
- POWER POLE
- GROUND ELEVATION
- EDGE OF PAVEMENT
- CONCRETE PAD
- PINE TREE
- OAK TREE
- OTHER TREE
- POB
- POC



LINE TABLE		
LINE	BEARING	LENGTH
L1	S39°55'26"W	31.55
L2	S48°18'48"W	150.24
L3	S45°21'07"W	114.10
L4	S44°46'55"W	111.52
L5	S11°47'21"W	132.51
L6	S40°38'45"W	270.28
L7	S66°00'57"W	27.39
L8	S66°00'57"W	195.94
L9	N63°46'02"W	207.69
L10	S82°33'51"W	88.26
L11	S28°21'29"W	89.06
L12	S71°27'03"W	78.57
L13	N71°34'40"W	145.36
L14	S69°27'39"W	156.04
L15	S14°14'55"W	85.75
L16	S50°31'48"W	100.50
L17	S89°20'07"W	50.49
L18	N49°32'39"W	143.67
L19	N22°34'51"E	170.90
L20	N15°33'38"W	138.05
L21	N03°58'35"E	143.21
L22	N23°50'13"E	183.92
L23	N43°05'27"E	129.51
L24	N52°28'55"E	244.91
L25	N31°40'25"E	305.96
L26	N42°50'09"E	243.61
L27	N03°38'30"E	55.20
L28	N31°42'47"W	124.44
L29	N55°59'01"E	156.42
L30	N47°42'09"E	371.69
L31	N07°34'57"E	133.02
L32	N21°48'26"W	515.49
L33	N31°21'57"W	131.35
L34	N36°20'51"W	515.97
L35	N28°59'57"W	63.17
L36	N09°12'13"E	47.90



VICINITY MAP
N.T.S.

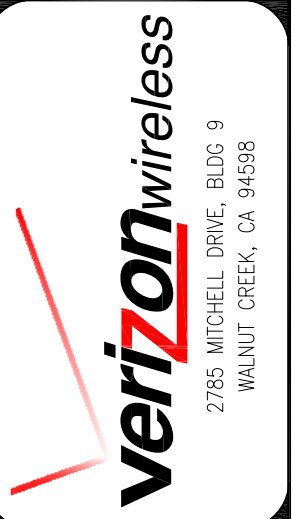
OVERALL SITE MAP
1" = 200'

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	02/19/14	PRELIMINARY	DL
1	06/06/14	ADD LEASE/EASEMENTS	DL
2	09/09/14	TITLE REVIEW	SL
3	02/02/15	REV. LEASE/EASEMENT	DL
4	06/17/15	REV. LEASE	SL



PROPRIETARY INFORMATION
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ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED



PRELIMINARY

LAKE CACHUMA
2680 HWY 154, CA 93105
SANTA BARBARA COUNTY

SHEET TITLE:
SITE SURVEY
FOR EXAMINATION ONLY

C-1



PROPOSED VERIZON WIRELESS DEMISED PREMISE DESCRIPTION:

ALL THAT PORTION OF THE HEREON DESCRIBED LESSOR'S PROPERTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EASTERLY MOST CORNER OF SAID PROPERTY, THENCE N 76°19'39" W, A DISTANCE OF 319.42 FEET TO THE TRUE POINT OF BEGINNING;

- THENCE 1) S 47°45'54" W, A DISTANCE OF 39.50 FEET;
- THENCE 2) N 42°14'06" W, A DISTANCE OF 19.74 FEET;
- THENCE 3) N 14°16'00" E, A DISTANCE OF 5.00 FEET;
- THENCE 4) N 47°45'54" E, A DISTANCE OF 29.33 FEET TO POINT "A";
- THENCE 5) CONTINUING N 47°45'54" E, A DISTANCE OF 6.00 FEET;
- THENCE 6) S 42°14'06" E, A DISTANCE OF 22.50 FEET TO THE POINT OF BEGINNING.

CONTAINING 883 SQUARE FEET, MORE OR LESS.

PROPOSED VERIZON WIRELESS ACCESS AND UTILITY EASEMENT DESCRIPTION:

A 12.00 FOOT WIDE NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS, AND UTILITY PURPOSES, THE CENTERLINE OF WHICH IS DESCRIBED AS FOLLOWS:

BEGINNING AT THE ABOVE DESCRIBED POINT "A";

- THENCE 1) N 42°14'06" W, A DISTANCE OF 6.00 FEET;
- THENCE 2) S 47°45'54" W, A DISTANCE OF 35.54 FEET;
- THENCE 3) S 23°10'18" W, A DISTANCE OF 18.59 FEET;
- THENCE 4) S 39°55'26" W, A DISTANCE OF 31.55 FEET;
- THENCE 5) S 48°18'48" W, A DISTANCE OF 150.24 FEET;
- THENCE 6) S 45°21'07" W, A DISTANCE OF 114.10 FEET;
- THENCE 7) S 44°46'55" W, A DISTANCE OF 111.52 FEET;
- THENCE 8) S 11°47'21" W, A DISTANCE OF 132.51 FEET;
- THENCE 9) S 40°38'45" W, A DISTANCE OF 270.28 FEET;
- THENCE 10) S 66°00'57" W, A DISTANCE OF 27.39 FEET TO POINT "B";
- THENCE 11) CONTINUING S 66°00'57" W, A DISTANCE OF 195.94 FEET;
- THENCE 12) N 63°46'02" W, A DISTANCE OF 207.69 FEET;
- THENCE 13) S 82°33'51" W, A DISTANCE OF 88.26 FEET;
- THENCE 14) S 28°21'29" W, A DISTANCE OF 89.06 FEET;
- THENCE 15) S 71°27'03" W, A DISTANCE OF 78.57 FEET;
- THENCE 16) N 71°34'40" W, A DISTANCE OF 145.36 FEET;
- THENCE 17) S 69°27'39" W, A DISTANCE OF 156.04 FEET;
- THENCE 18) S 14°14'55" W, A DISTANCE OF 85.75 FEET;
- THENCE 19) S 50°31'48" W, A DISTANCE OF 100.50 FEET;
- THENCE 20) S 89°20'07" W, A DISTANCE OF 50.49 FEET;
- THENCE 21) N 49°32'39" W, A DISTANCE OF 143.67 FEET;
- THENCE 22) N 22°34'51" E, A DISTANCE OF 170.90 FEET;
- THENCE 23) N 15°33'38" W, A DISTANCE OF 138.05 FEET;
- THENCE 24) N 03°58'35" E, A DISTANCE OF 143.21 FEET;
- THENCE 25) N 23°50'13" E, A DISTANCE OF 183.92 FEET;
- THENCE 26) N 43°05'27" E, A DISTANCE OF 129.51 FEET;
- THENCE 27) N 52°28'55" E, A DISTANCE OF 244.91 FEET;
- THENCE 28) N 31°40'25" E, A DISTANCE OF 305.96 FEET;
- THENCE 29) N 42°50'09" E, A DISTANCE OF 243.61 FEET;
- THENCE 30) N 03°38'30" E, A DISTANCE OF 55.20 FEET;
- THENCE 31) N 31°42'47" W, A DISTANCE OF 124.44 FEET;
- THENCE 32) N 55°59'01" E, A DISTANCE OF 156.42 FEET;
- THENCE 33) N 47°42'09" E, A DISTANCE OF 371.69 FEET;
- THENCE 34) N 07°34'57" E, A DISTANCE OF 133.02 FEET;
- THENCE 35) N 21°48'26" W, A DISTANCE OF 515.49 FEET;
- THENCE 36) N 31°21'57" W, A DISTANCE OF 131.35 FEET;
- THENCE 37) N 36°20'51" W, A DISTANCE OF 515.97 FEET;
- THENCE 38) N 28°59'57" W, A DISTANCE OF 63.17 FEET;
- THENCE 39) N 09°12'13" E, A DISTANCE OF 47.90 FEET TO THE SOUTHERLY LINE OF STATE HIGHWAY 154 AND THE TERMINUS OF THIS DESCRIPTION.

THE SIDELINES SHALL BE SHORTENED OR LENGTHENED TO INTERSECT WITH SAID SOUTHERLY LINE OF STATE HIGHWAY 154.

PROPOSED VERIZON WIRELESS UTILITY EASEMENT DESCRIPTION:

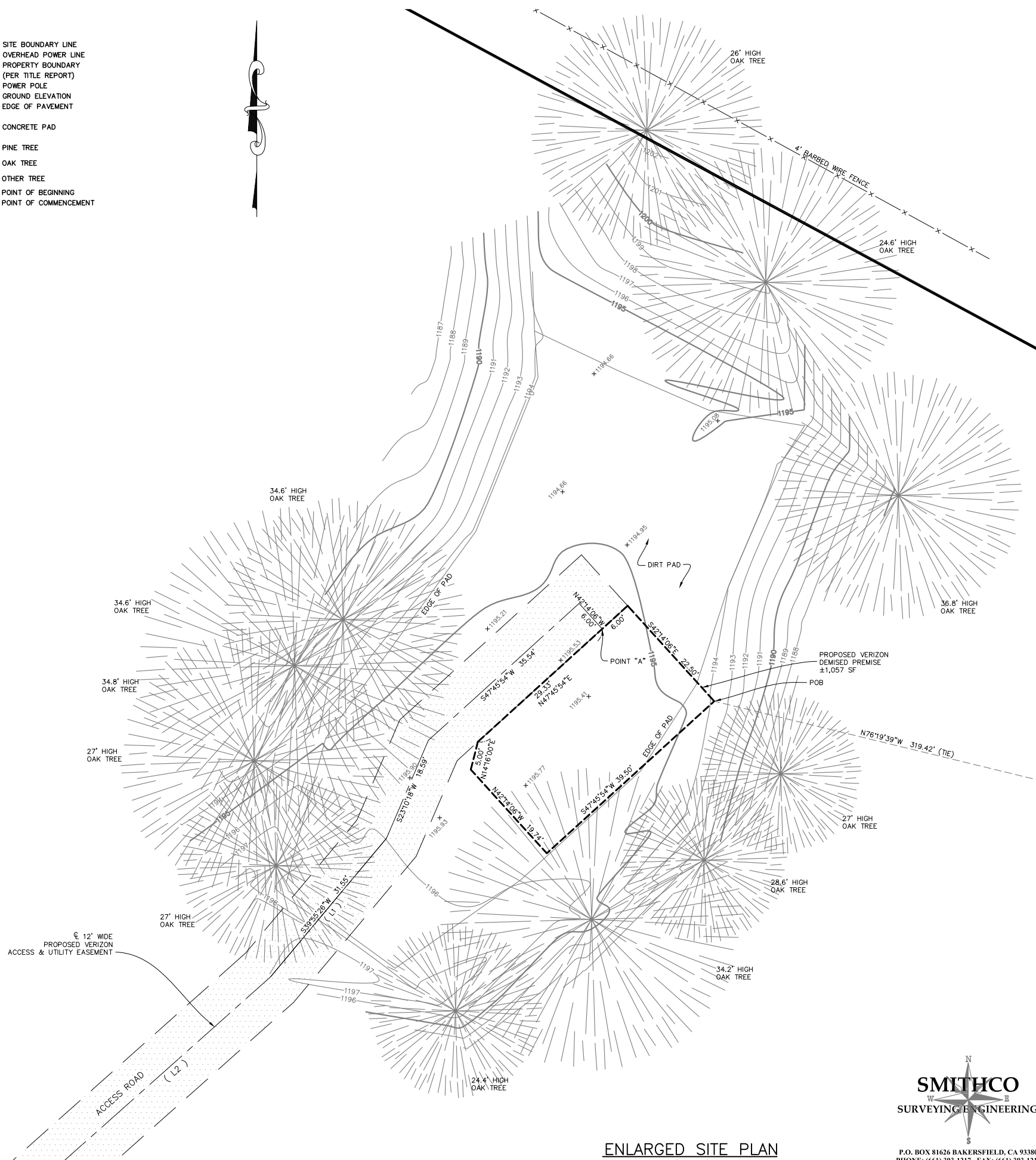
A 5.00 FOOT WIDE EASEMENT FOR UTILITY PURPOSES, THE CENTERLINE OF WHICH IS DESCRIBED AS FOLLOWS:

BEGINNING AT THE ABOVE DESCRIBED POINT "B";

- THENCE 1) S 03°39'06" E, A DISTANCE OF 48.50 FEET TO THE TERMINUS OF THIS DESCRIPTION.

LEGEND

- SITE BOUNDARY LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY (PER TITLE REPORT)
- POWER POLE
- GROUND ELEVATION
- EDGE OF PAVEMENT
- CONCRETE PAD
- PINE TREE
- OAK TREE
- OTHER TREE
- POB (POINT OF BEGINNING)
- POC (POINT OF COMMENCEMENT)



ENLARGED SITE PLAN
1" = 10'



P.O. BOX 81626 BAKERSFIELD, CA 93380
PHONE: (661) 393-1217 FAX: (661) 393-1218

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	02/19/14	PRELIMINARY	DL
1	06/06/14	ADD LEASE/EASEMENTS	DL
2	09/09/14	TITLE REVIEW	SL
3	02/02/15	REV. LEASE/EASEMENT	DL
4	06/17/15	REV. LEASE	SL

SMITHCO JOB NO.: 82-232

WIRELESS
5865 AVENIDA ENCINAS, SUITE 142B,
CARLSBAD, CA 92008
Office (760) 795-5000
Fax (760) 931-0908

PROPRIETARY INFORMATION
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verizon wireless
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

PRELIMINARY

LAKE CACHUMA
2680 HWY 154, CA 93105
SANTA BARBARA COUNTY

SHEET TITLE:
SITE SURVEY
FOR EXAMINATION ONLY

C-2

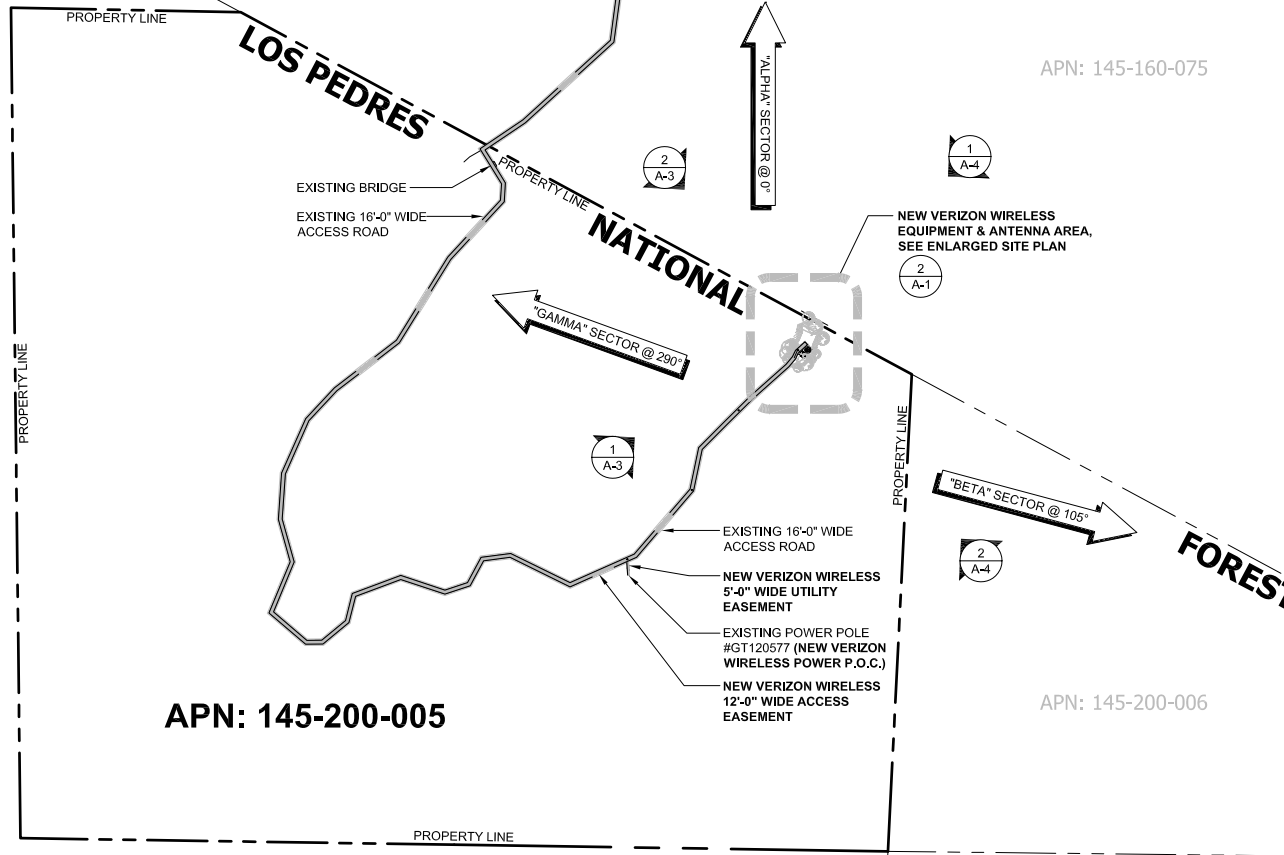
NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE PRINT IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

SAN MARCOS PASS RD - HWY 154

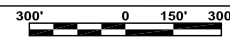
RANCHO TEQUEPIS

EXISTING SITE ACCESS
EXISTING 16'-0" WIDE ACCESS ROAD

NOTE:
GENERAL CONTRACTOR IS RESPONSIBLE OF THE METHOD & MEANS OF SHIPPING AND DELIVERY OF THE PROPOSED PREFABRICATED EQUIPMENT SHELTER AND CONSTRUCTION COMPONENTS NEEDED TO BUILD VERIZON WIRELESS TELECOMMUNICATION UNMANNED FACILITY ON TOP OF THE MOUNTAIN PEAK. GENERAL CONTRACTOR SHALL MAKE ALL NECESSARY PRECAUTIONS / INSPECTIONS OF EXISTING STRUCTURES ALONG EXISTING ACCESS ROAD PRIOR TO SCHEDULING THE DELIVERIES TO THE SITE.



SITE PLAN



SCALE: 1" = 300'-0" (24x36)
(OR) 1/2" = 300'-0" (11x17)

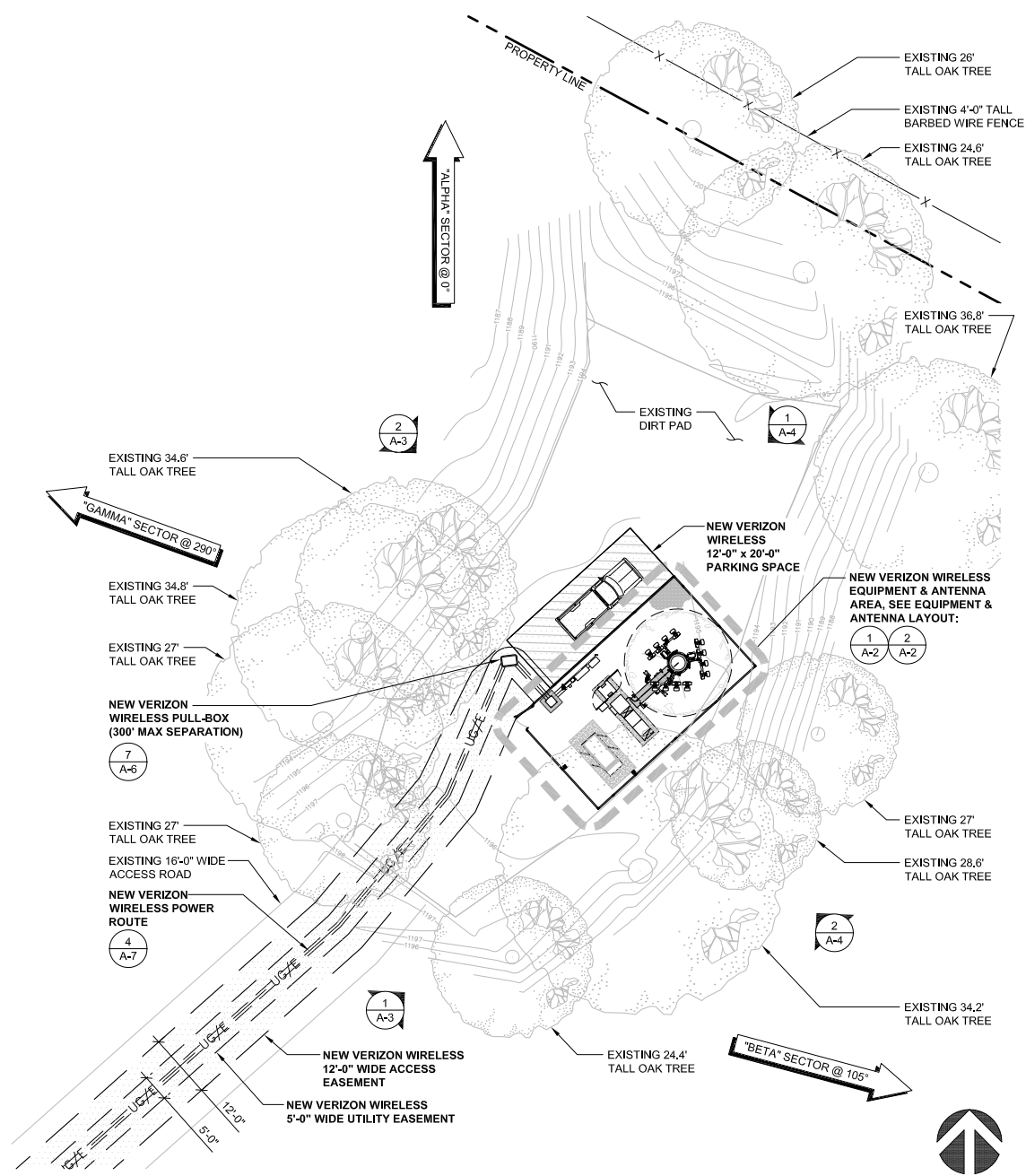
1

EARTH WORKS TABLE

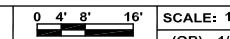
	DESCRIPTION	QUANTITY (CU. YD)	QUANTITY (LIN. FT)
EARTH MOVEMENT	CUT	287	
	FILL	287	
	LENGTH		1057'-3"
	WIDTH		2'-0"
	DEPTH		3'-8"

PROPOSED TRENCH DATA

SCALE
N.T.S. **3**



ENLARGED SITE PLAN



SCALE: 1/16" = 1'-0" (24x36)
(OR) 1/32" = 1'-0" (11x17)

2

ISSUE STATUS

REV.	DATE	DESCRIPTION	BY
0	02/17/15	90% CONSTRUCTION	SR
1	02/26/15	95% CONSTRUCTION	SR
2	03/16/15	OUTDOOR EQUIPMENT	EC

5865 AVENIDA ENCINAS
CARLSBAD, CA 92008
www.sacw.com
760.795.5200

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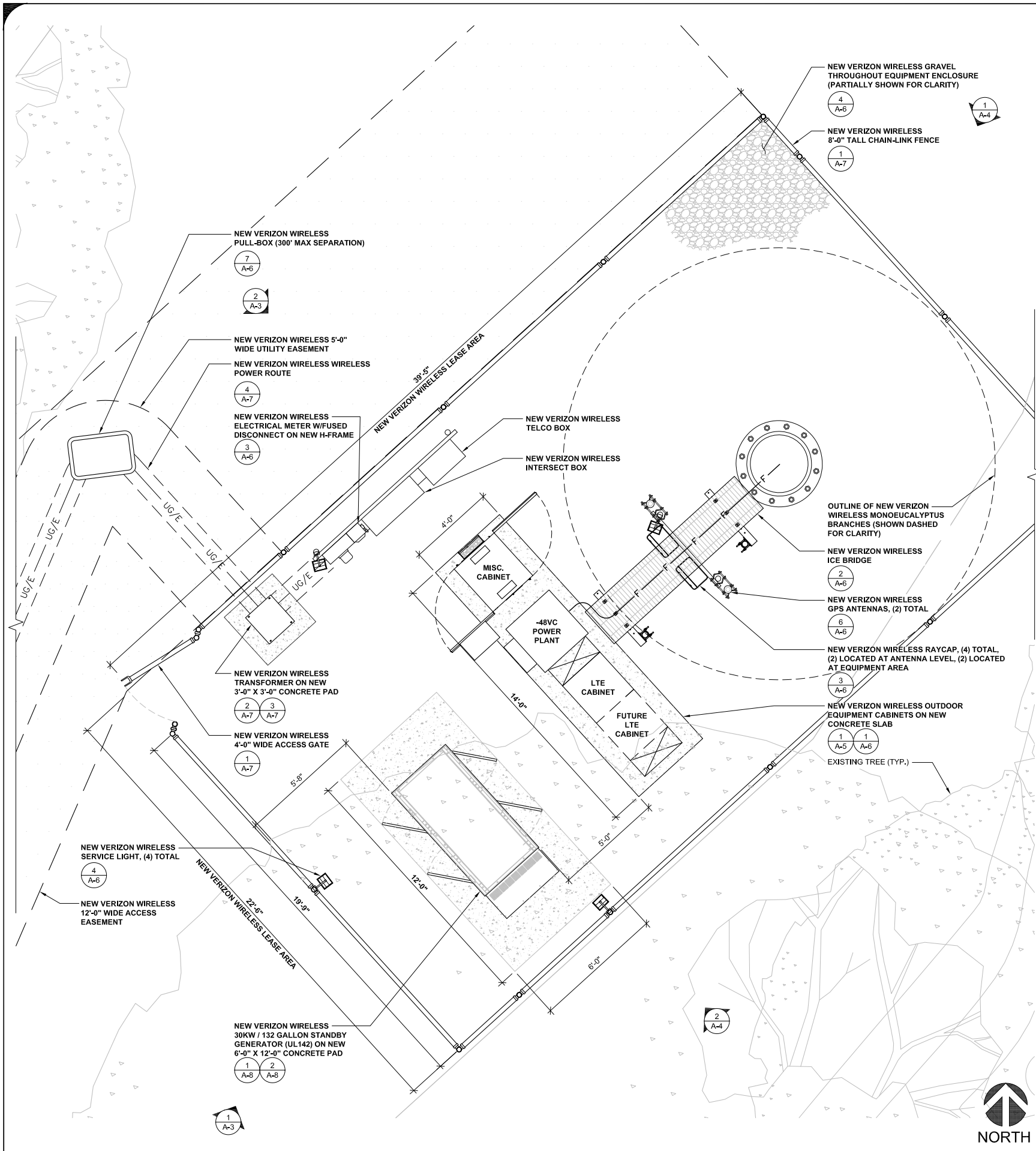
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

LAKE CACHUMA
PSL # 276864

2680 HWY 154
SANTA BARBARA CA, 93105

SHEET TITLE:
SITE PLAN & ENLARGED SITE PLAN

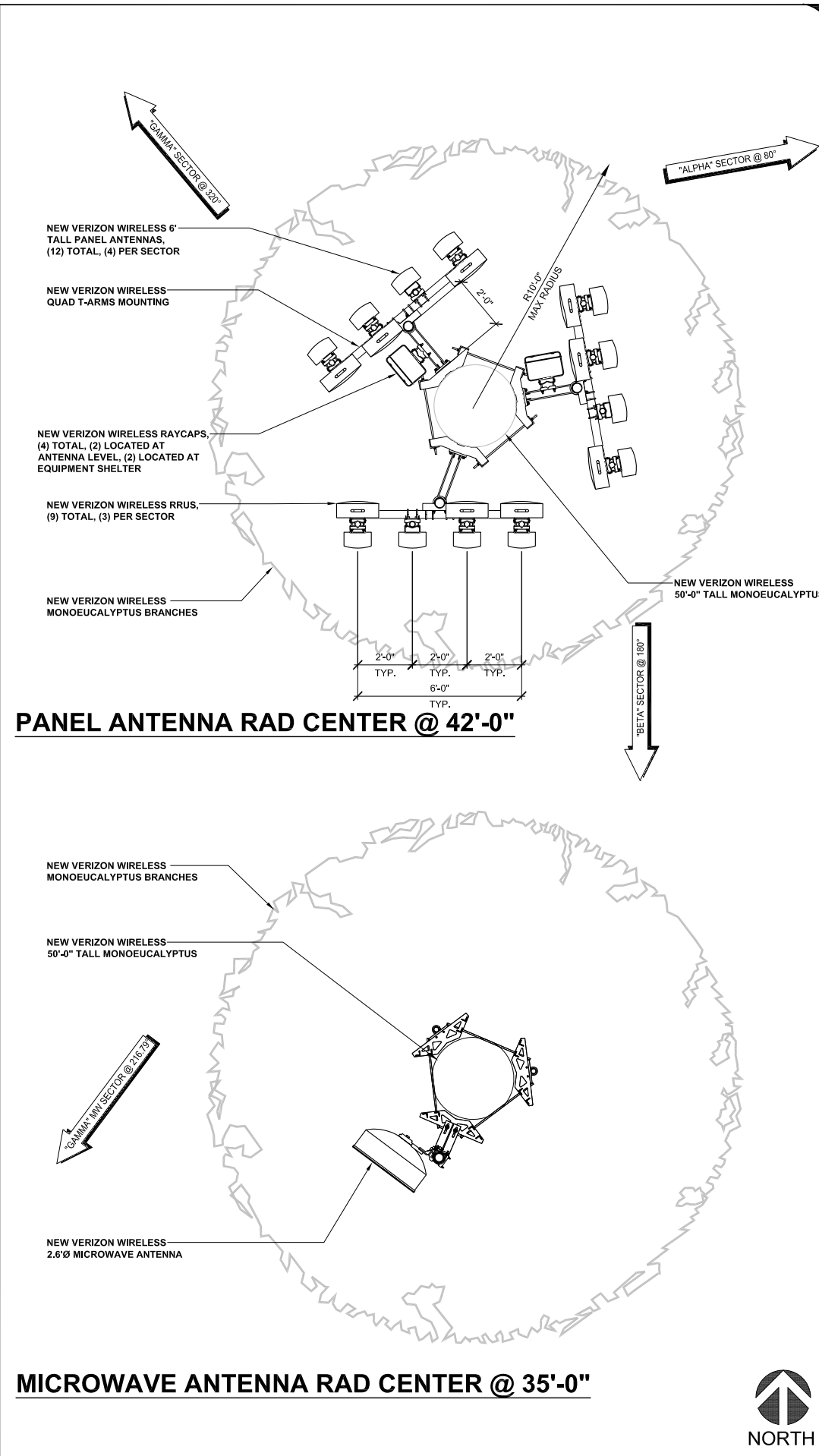
A-1



EQUIPMENT LAYOUT

SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)

1



ANTENNA LAYOUT

SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)

2

REV.	DATE	DESCRIPTION	BY
0	02/17/15	90% CONSTRUCTION	SR
1	02/26/15	95% CONSTRUCTION	SR
2	03/16/15	OUTDOOR EQUIPMENT	EC

SAC WIRELESS ENGINEERING GROUP
5865 AVENIDA ENCINAS
CARLSBAD, CA 92008
www.sacw.com
760.795.5200

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WALNUT CREEK, CA 94598

LAKE CACHUMA
PSL # 276864
2680 HWY 154
SANTA BARBARA CA, 93105

SHEET TITLE:
EQUIPMENT & ANTENNA LAYOUT

A-2

ISSUE STATUS

REV.	DATE	DESCRIPTION	BY
0	02/17/15	90% CONSTRUCTION	SR
1	02/26/15	95% CONSTRUCTION	SR
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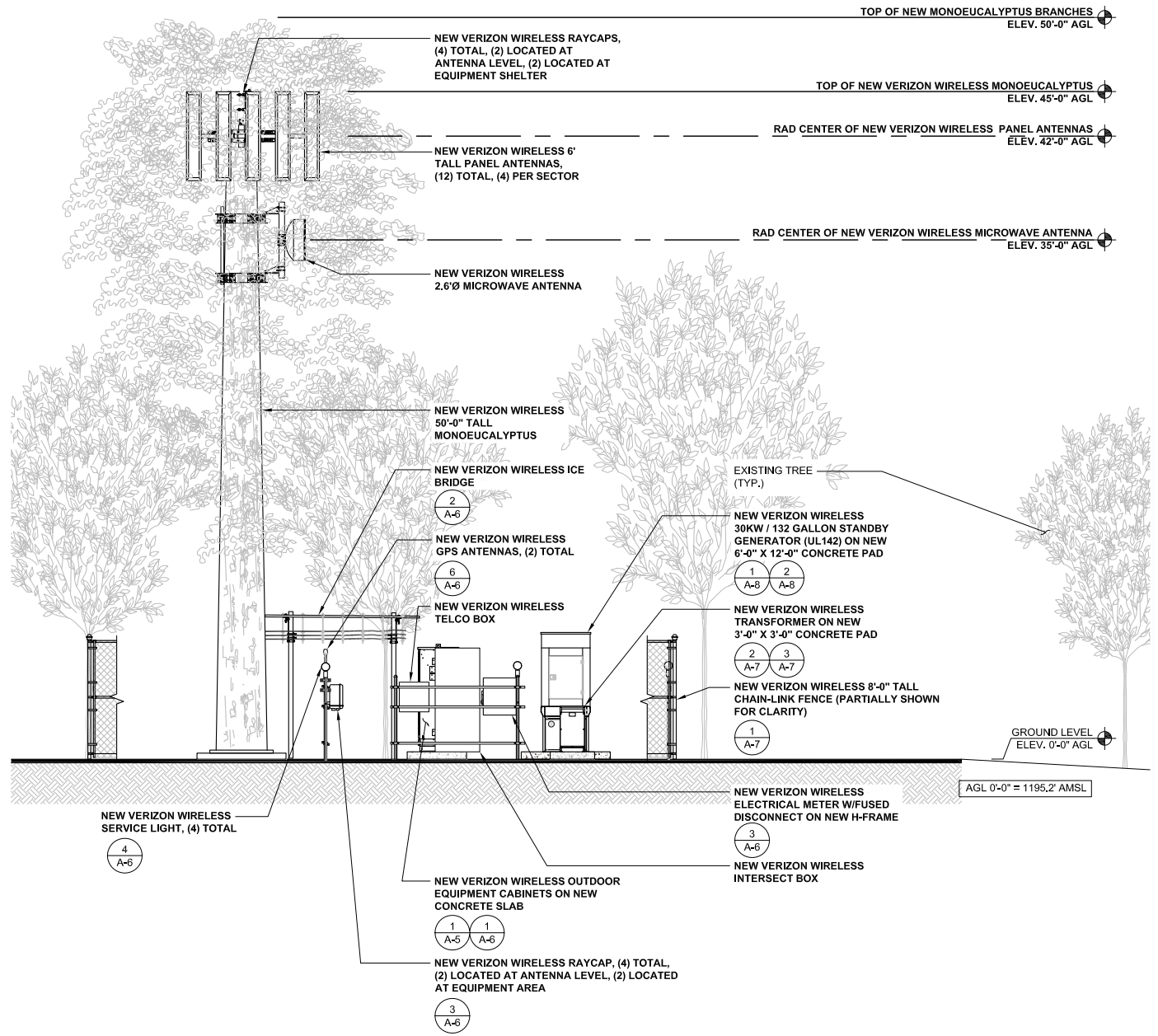
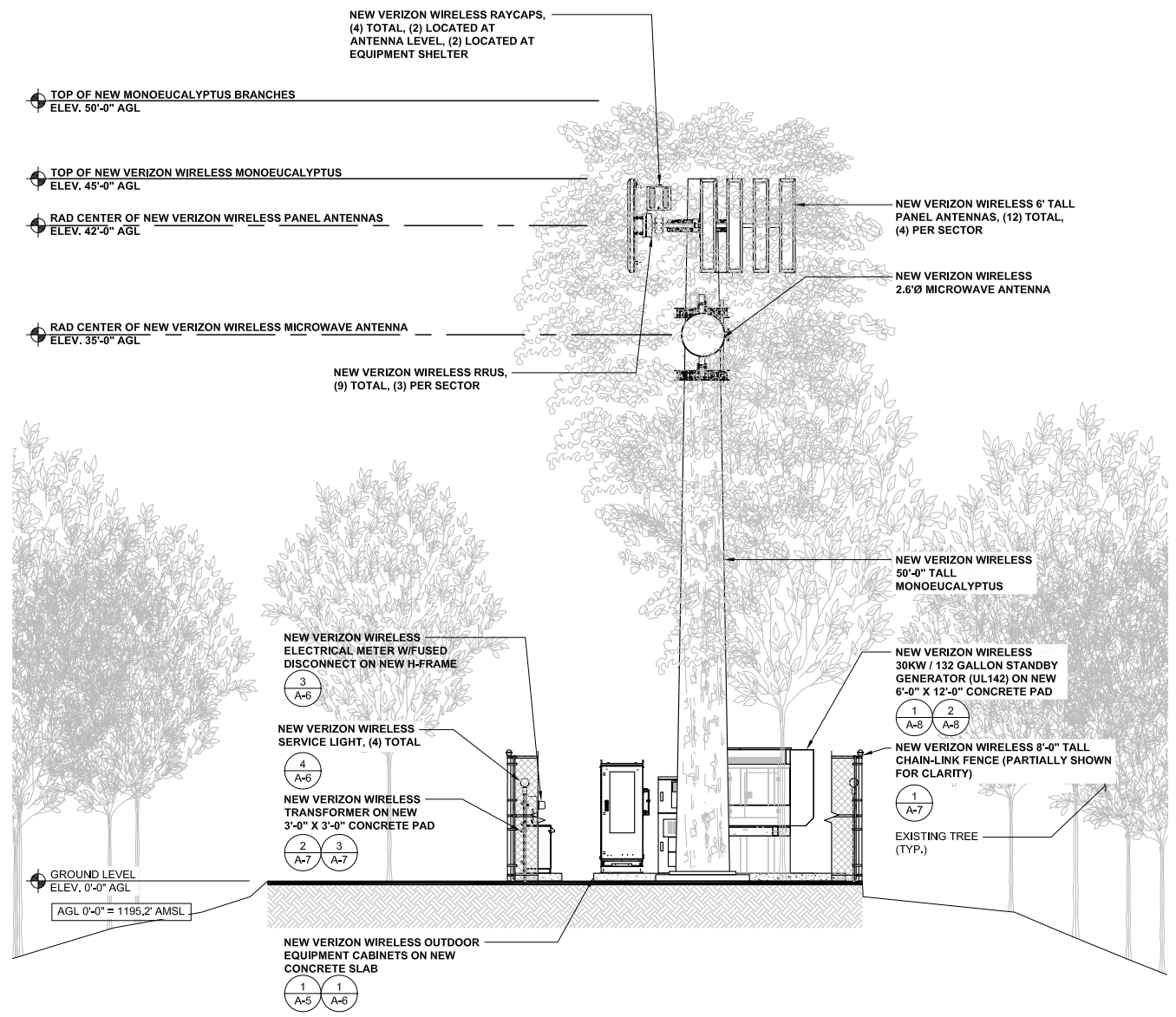
LAKE CACHUMA
PSL # 276864
 2680 HWY 154
 SANTA BARBARA CA, 93105

SHEET TITLE:
SOUTHWEST & NORTHWEST ELEVATIONS

A-3

NOTE:

- ANTENNAS TO BE COVERED WITH ANTENNA SOCKS WITH EUCALYPTUS LEAVES
- ALL EXPOSED ANTENNA COMPONENTS AND SUPPORTED EQUIPMENT TO BE PAINTED "BLACKENED BEAM"
- EXTERIOR WALLS OF EQUIPMENT SHELTER TO BE EXPOSED AGGREGATE FINISH



SOUTHWEST ELEVATION

0 1.5' 3' 5' SCALE: 3/16" = 1'-0" (24x36)
 (OR) 3/32" = 1'-0" (11x17)

1

NORTHWEST ELEVATION

0 1.5' 3' 5' SCALE: 3/16" = 1'-0" (24x36)
 (OR) 3/32" = 1'-0" (11x17)

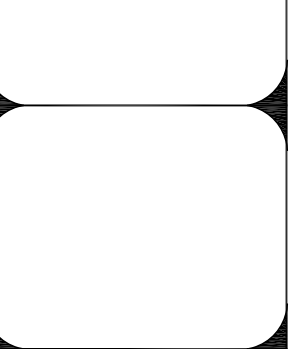
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ISSUE STATUS

REV.	DATE	DESCRIPTION	BY
0	02/17/15	90% CONSTRUCTION	SR
1	02/26/15	95% CONSTRUCTION	SR
2	03/16/15	OUTDOOR EQUIPMENT	EC



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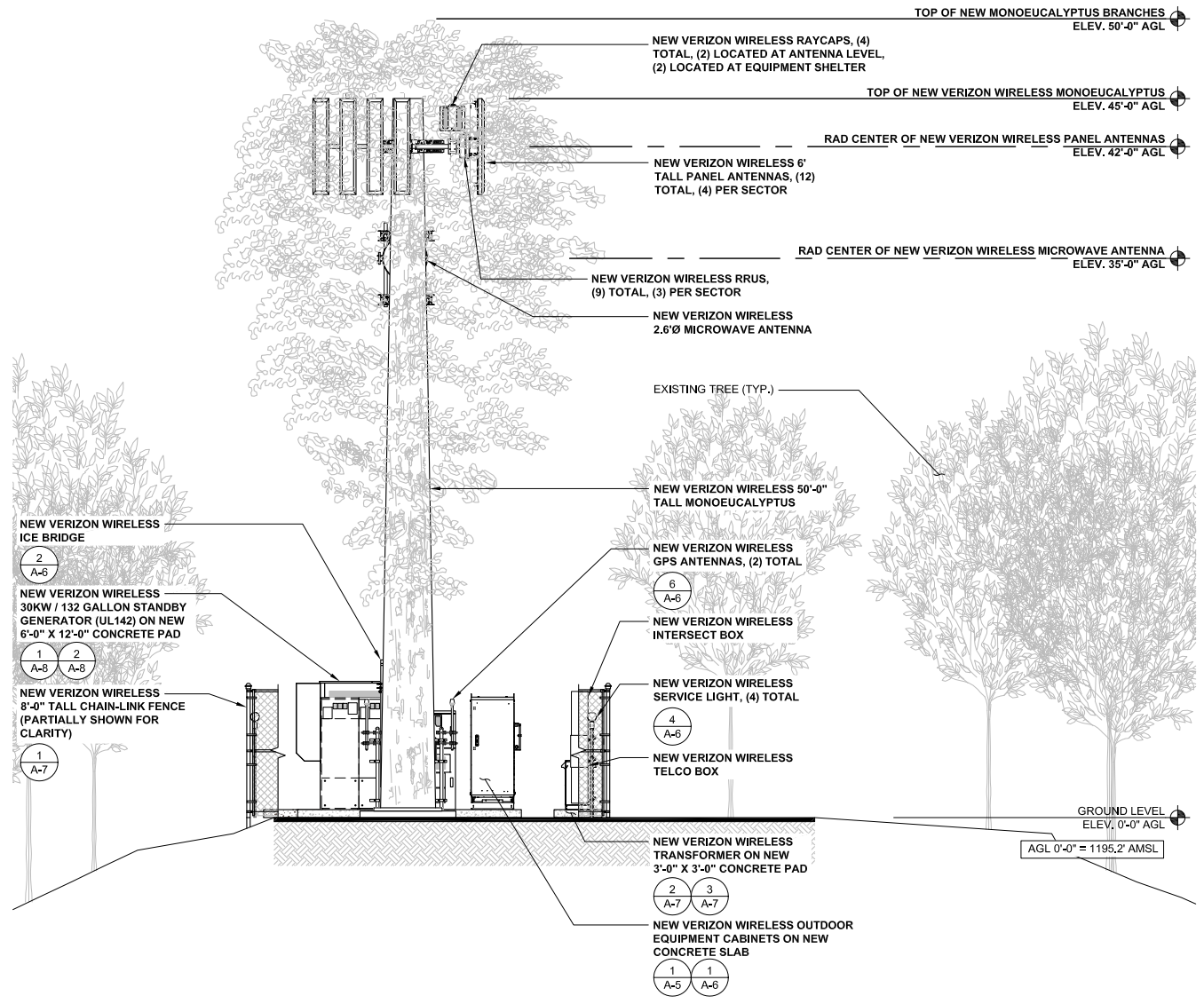


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 2680 HWY 154
 SANTA BARBARA CA, 93105

SHEET TITLE:
NORTHEAST & SOUTHEAST ELEVATIONS

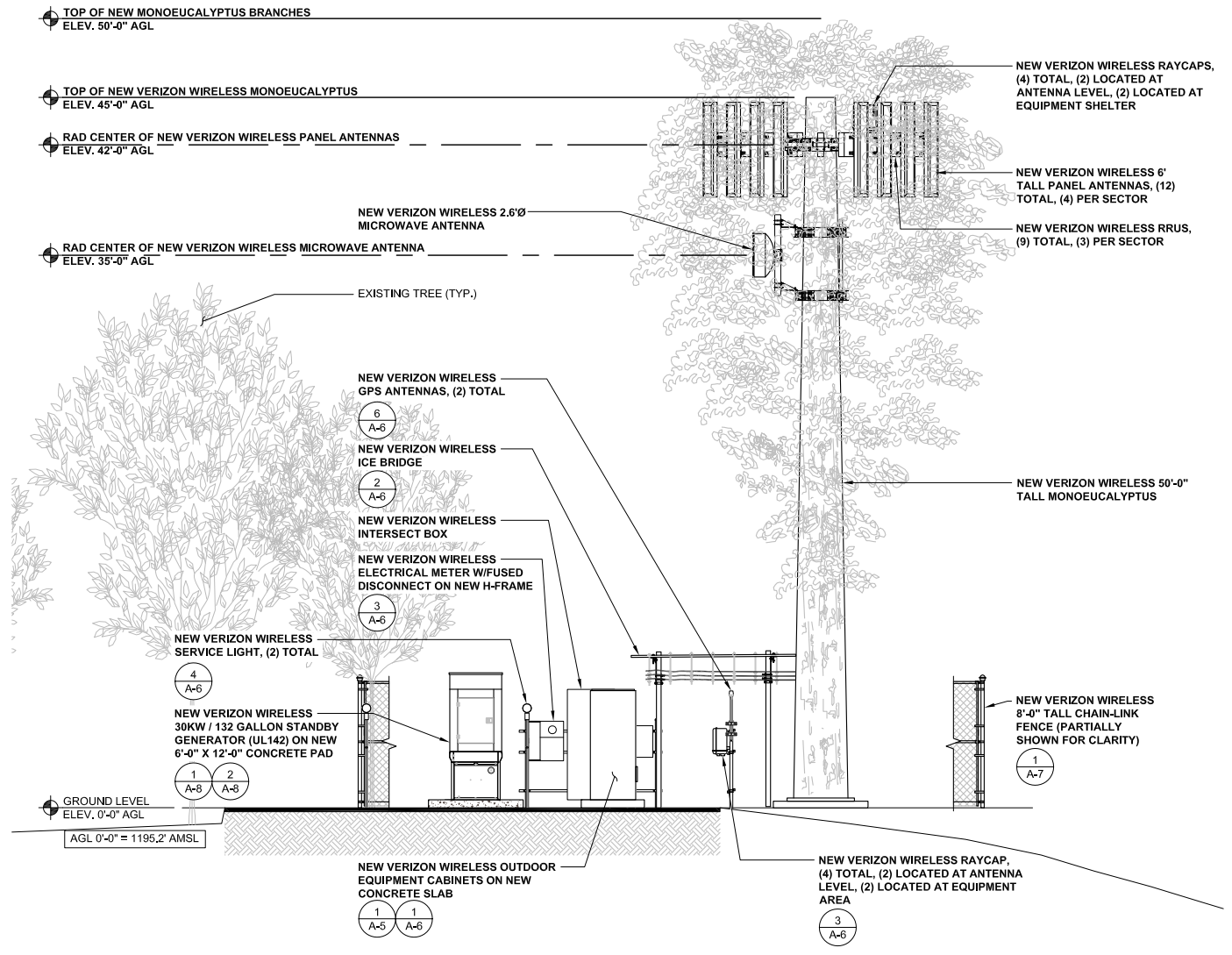
A-4

- NOTE:**
- ANTENNAS TO BE COVERED WITH ANTENNA SOCKS WITH EUCALYPTUS LEAVES
 - ALL EXPOSED ANTENNA COMPONENTS AND SUPPORTED EQUIPMENT TO BE PAINTED "BLACKENED BEAM"
 - EXTERIOR WALLS OF EQUIPMENT SHELTER TO BE EXPOSED AGGREGATE FINISH



NORTHEAST ELEVATION

0 1.5' 3' 5' SCALE: 3/16" = 1'-0" (24x36)
 (OR) 3/32" = 1'-0" (11x17) **1**



SOUTHEAST ELEVATION

0 1.5' 3' 5' SCALE: 3/16" = 1'-0" (24x36)
 (OR) 3/32" = 1'-0" (11x17) **2**

ISSUE STATUS

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0	02/17/15	90% CONSTRUCTION	SR
1	02/26/15	95% CONSTRUCTION	SR
2	03/16/15	OUTDOOR EQUIPMENT	EC



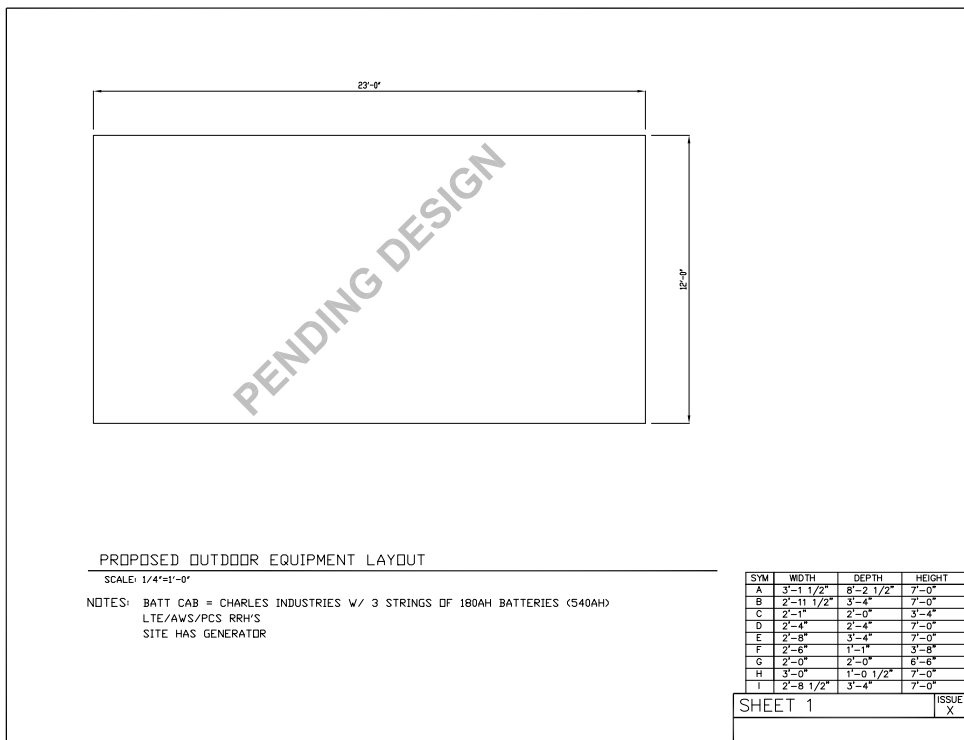
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SHEET TITLE:
EQUIPMENT SCHEMATIC

A-5



NOT USED

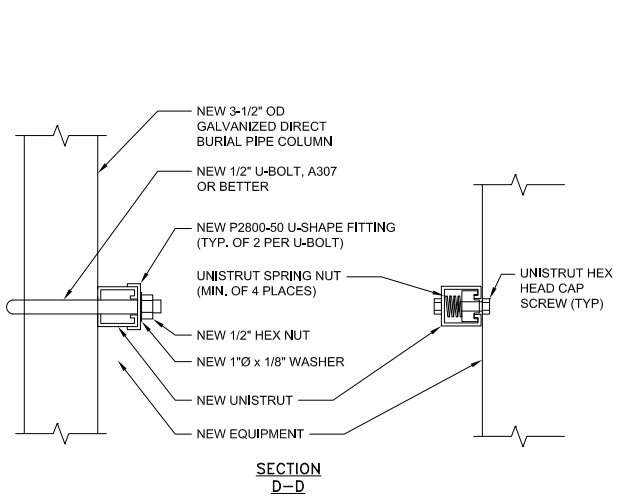
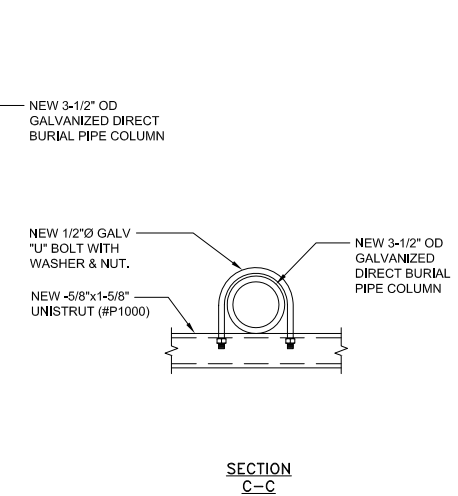
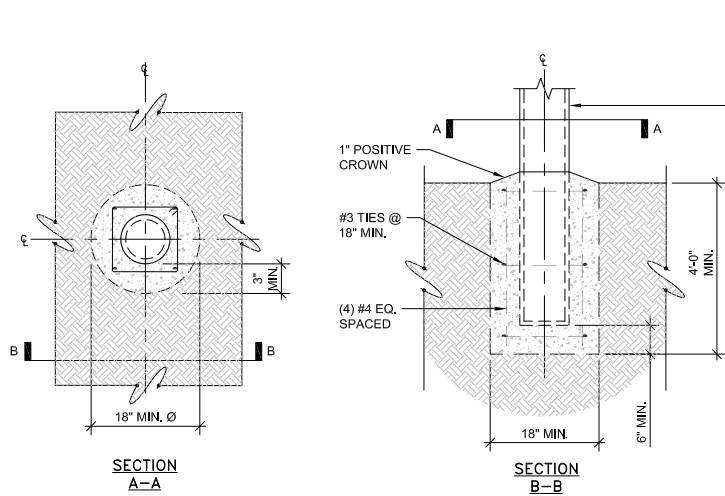
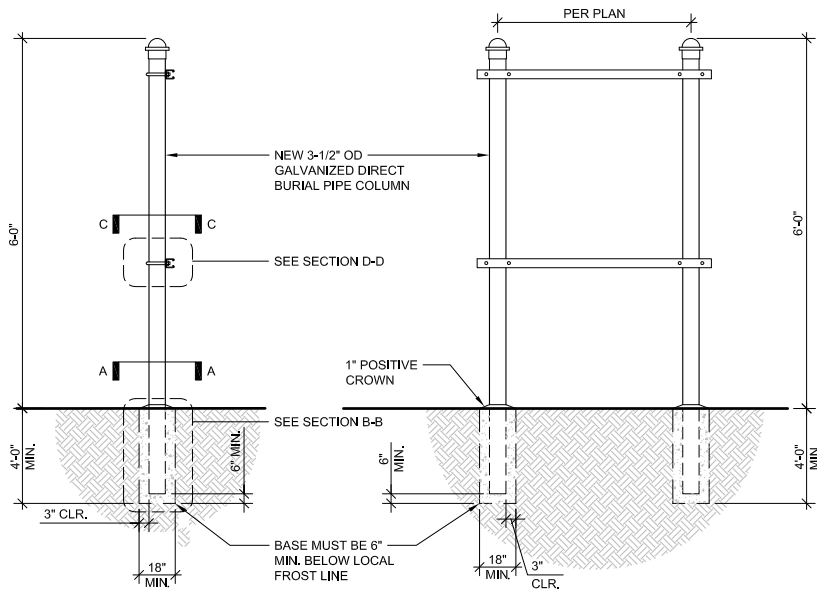
SCALE	3
N.T.S.	

NOT USED

SCALE	2
N.T.S.	

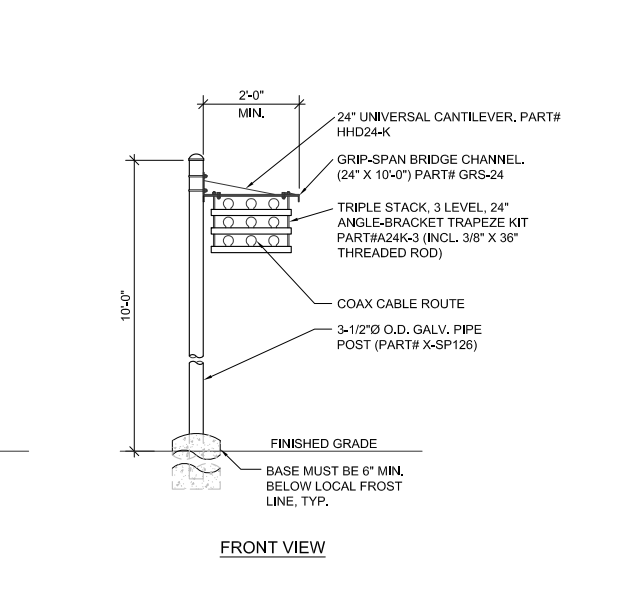
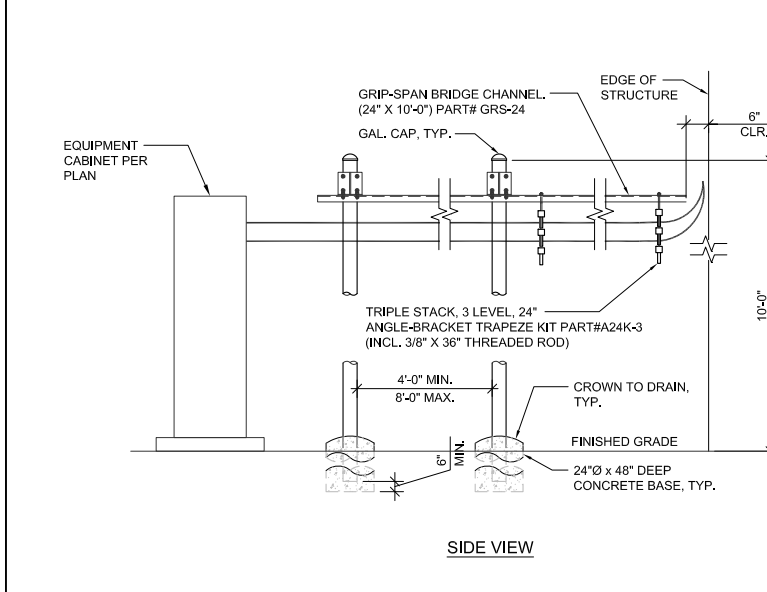
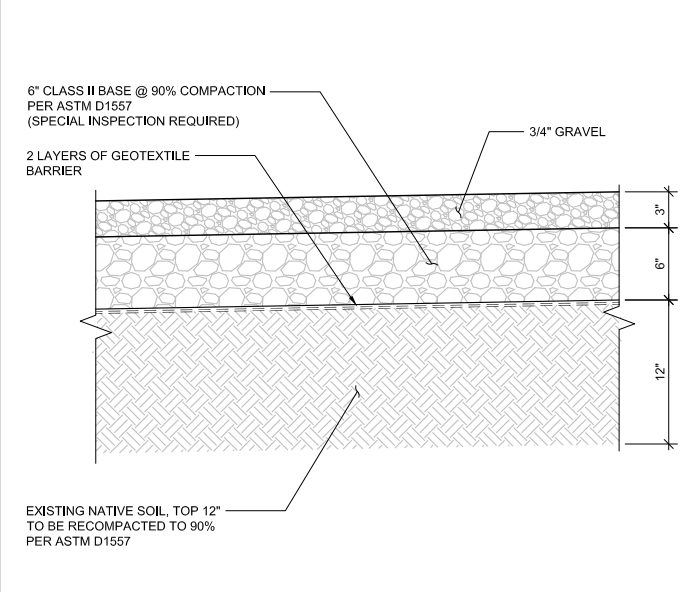
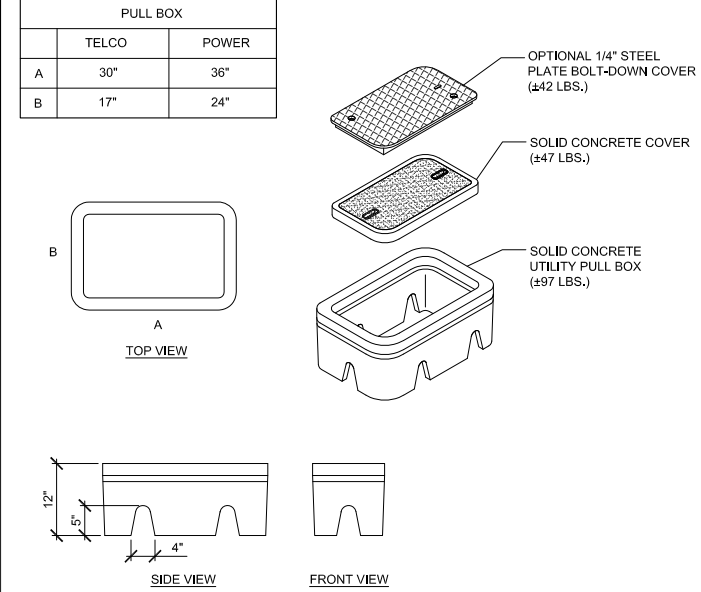
VERIZON WIRELESS EQUIPMENT SCHEMATIC

SCALE	1
N.T.S.	



H-FRAME DETAIL

SCALE
N.T.S. **3**



PULL BOX DETAIL

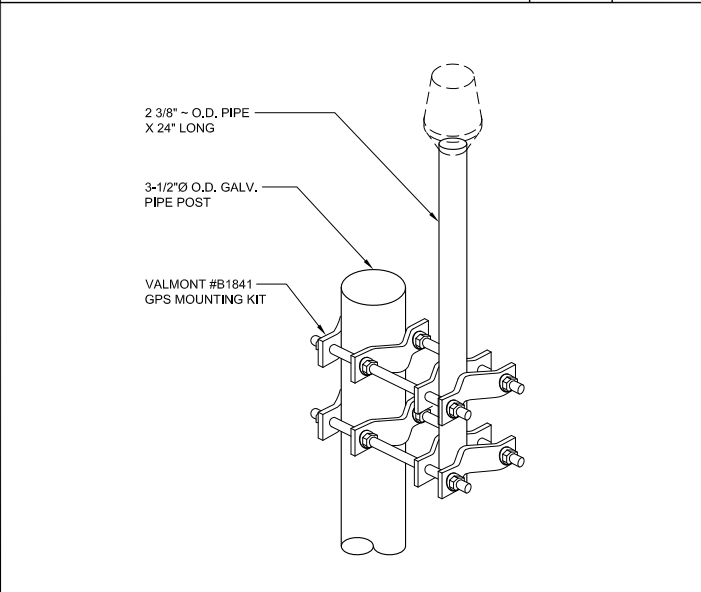
SCALE
N.T.S. **7**

COMPOUND SURFACE

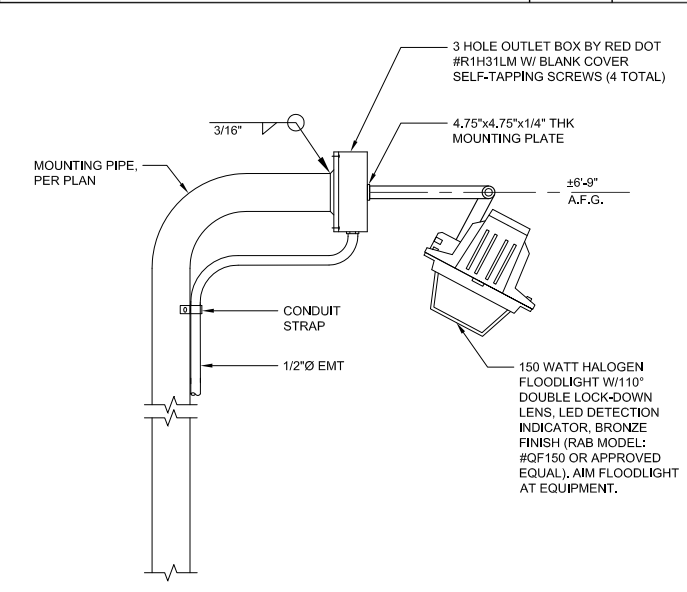
SCALE
N.T.S. **5**

ICE BRIDGE DETAIL

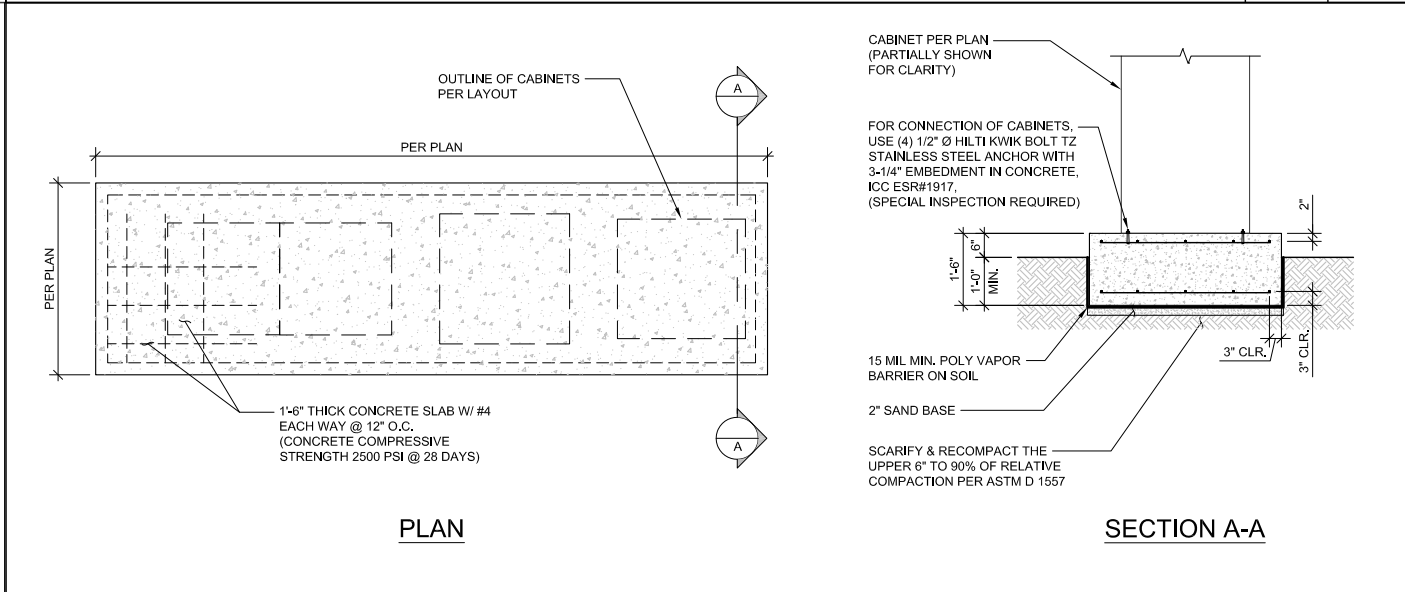
SCALE
N.T.S. **2**



SCALE
N.T.S. **6**



SCALE
N.T.S. **4**



SCALE
N.T.S. **1**

GPS ANTENNA DETAIL

SERVICE LIGHT POLE

OUTDOOR EQUIPMENT SLAB DETAIL

ISSUE STATUS

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2680 HWY 154
SANTA BARBARA CA, 93105

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PSL # 276864
2680 HWY 154
SANTA BARBARA CA, 93105

SHEET TITLE:
DETAILS

A-6

ISSUE STATUS

REV.	DATE	DESCRIPTION	BY
0	02/17/15	90% CONSTRUCTION	SR
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SHEET TITLE:
DETAILS

A-7

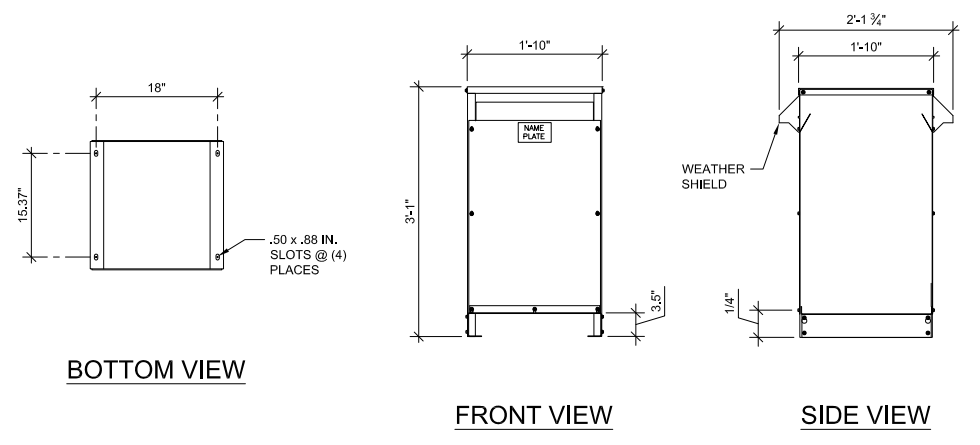
ACCESSORIES

WEATHER SHIELD	WS363
----------------	-------

ENCLOSURE PARTS

TOP COVER	4305502101
FRONT	4305502003
REAR	4305502003
SIDES (ENDS)	4310179701
BASE	4305501801

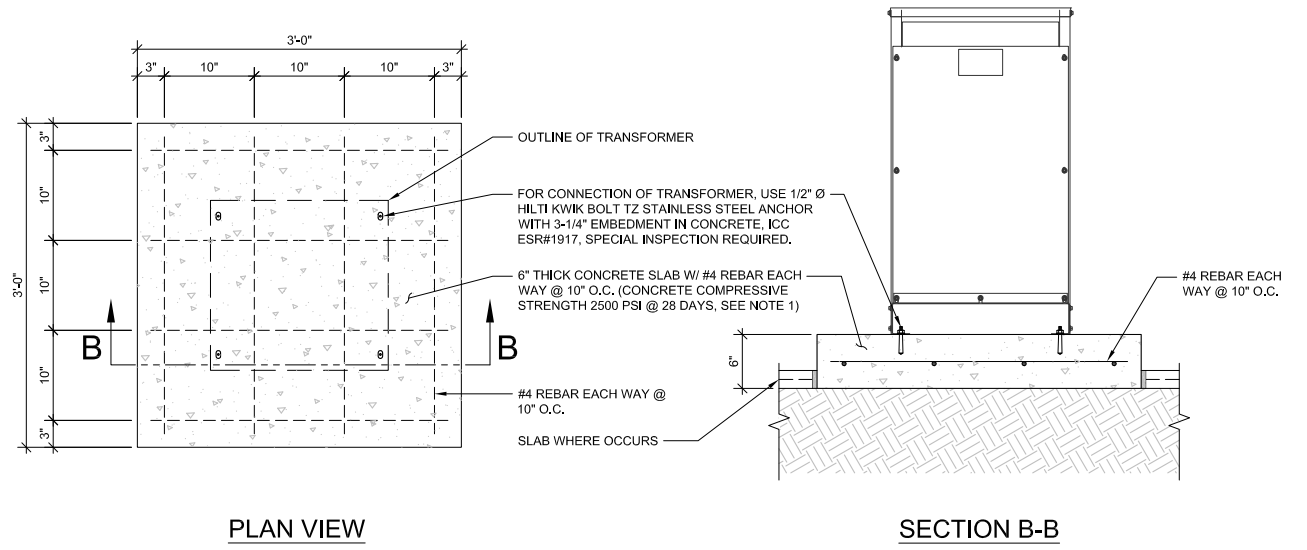
*WHEN REPLACING A FRONT PANEL, SPECIFY THE TRANSFORMER PART NUMBER AND *WITH NAMEPLATE AND LABELS* ON THE ORDER.



ENERGY EFFICIENT TRANSFORMER

SCALE
 N.T.S. **3**

- NOTES:**
- CONCRETE SHALL ATTAIN A COMPRESSIVE STRENGTH OF $f_c=2,500$ PSI MINIMUM AT 28 DAYS.
 - ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 40.



NOT USED SCALE N.T.S. **9**

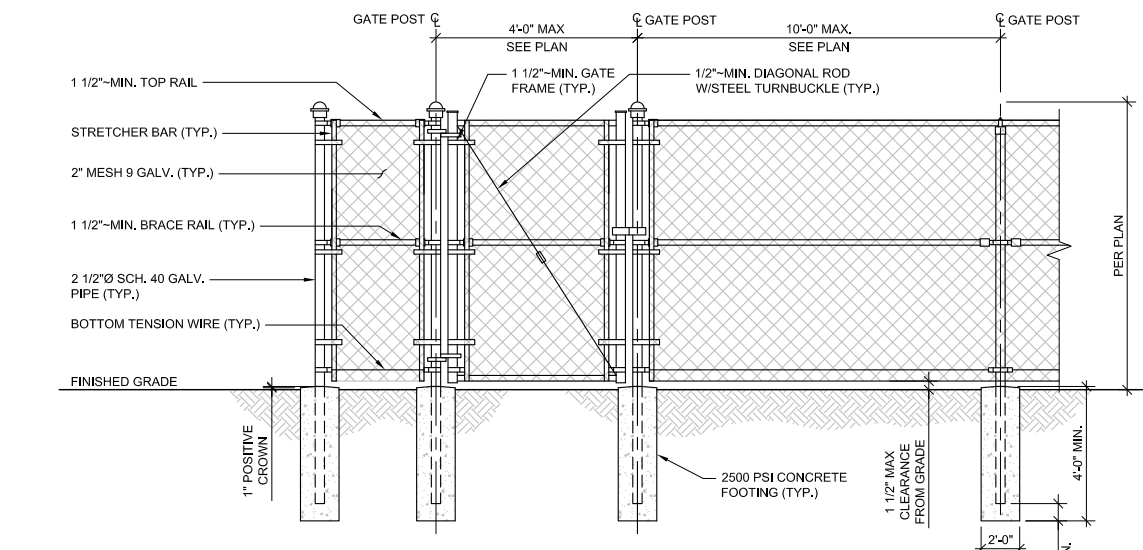
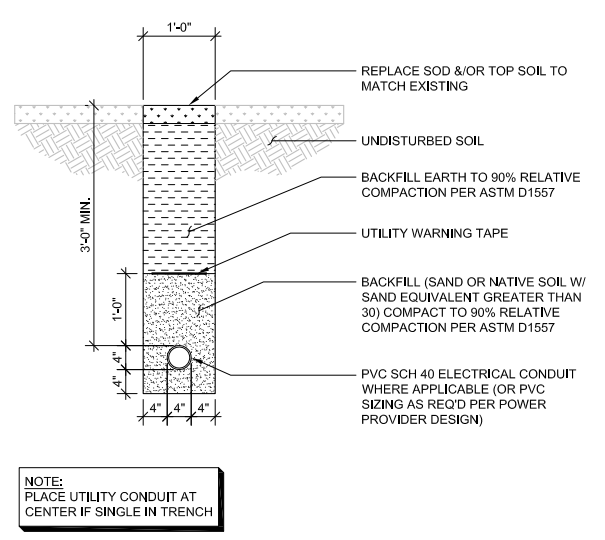
NOT USED SCALE N.T.S. **6**

NOT USED SCALE N.T.S. **8**

NOT USED SCALE N.T.S. **5**

ENERGY EFFICIENT TRANSFORMER FOUNDATION DETAIL

SCALE N.T.S. **2**



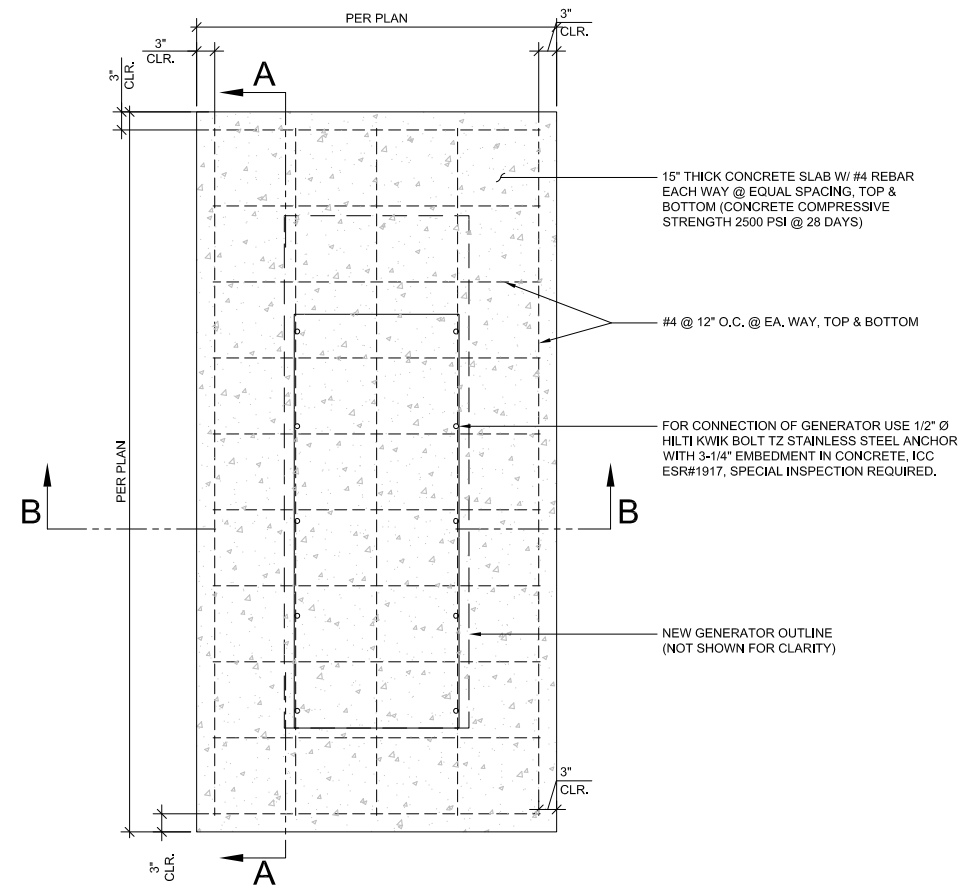
NOT USED SCALE N.T.S. **7**

POWER TRENCH DETAIL SCALE N.T.S. **4**

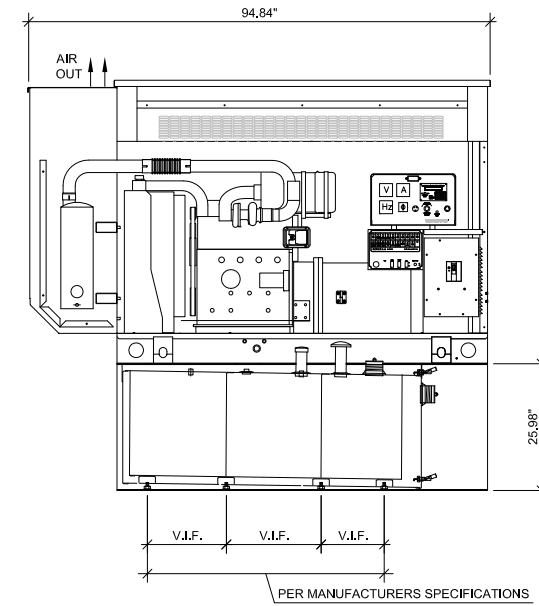
NEW CHAIN-LINK FENCE & SINGLE GATE DETAIL SCALE N.T.S. **1**

NOTES:

1. CONCRETE SHALL ATTAIN A COMPRESSIVE STRENGTH OF $f_c = 2,500$ PSI MINIMUM AT 28 DAYS.
2. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 40.

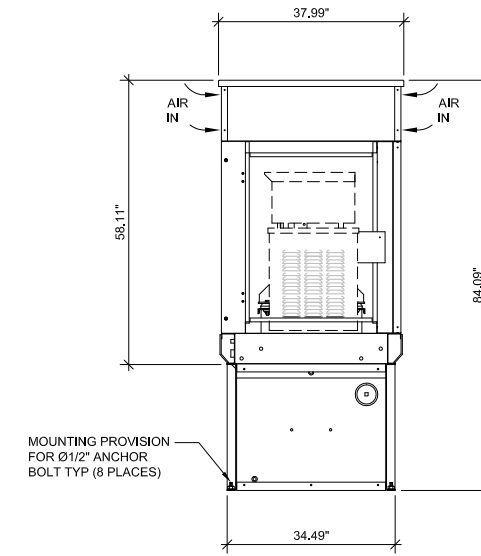


NEW GENERATOR CONCRETE SLAB PLAN



LEFT SIDE VIEW

WEIGHT DATA
 OPEN SET UNIT: 607 kg [1336 lbs] (NET)
 TANK: 338 kg [745 lbs]
 STEEL COMPARTMENT: ESTIMATED 341 kg [752 lbs]

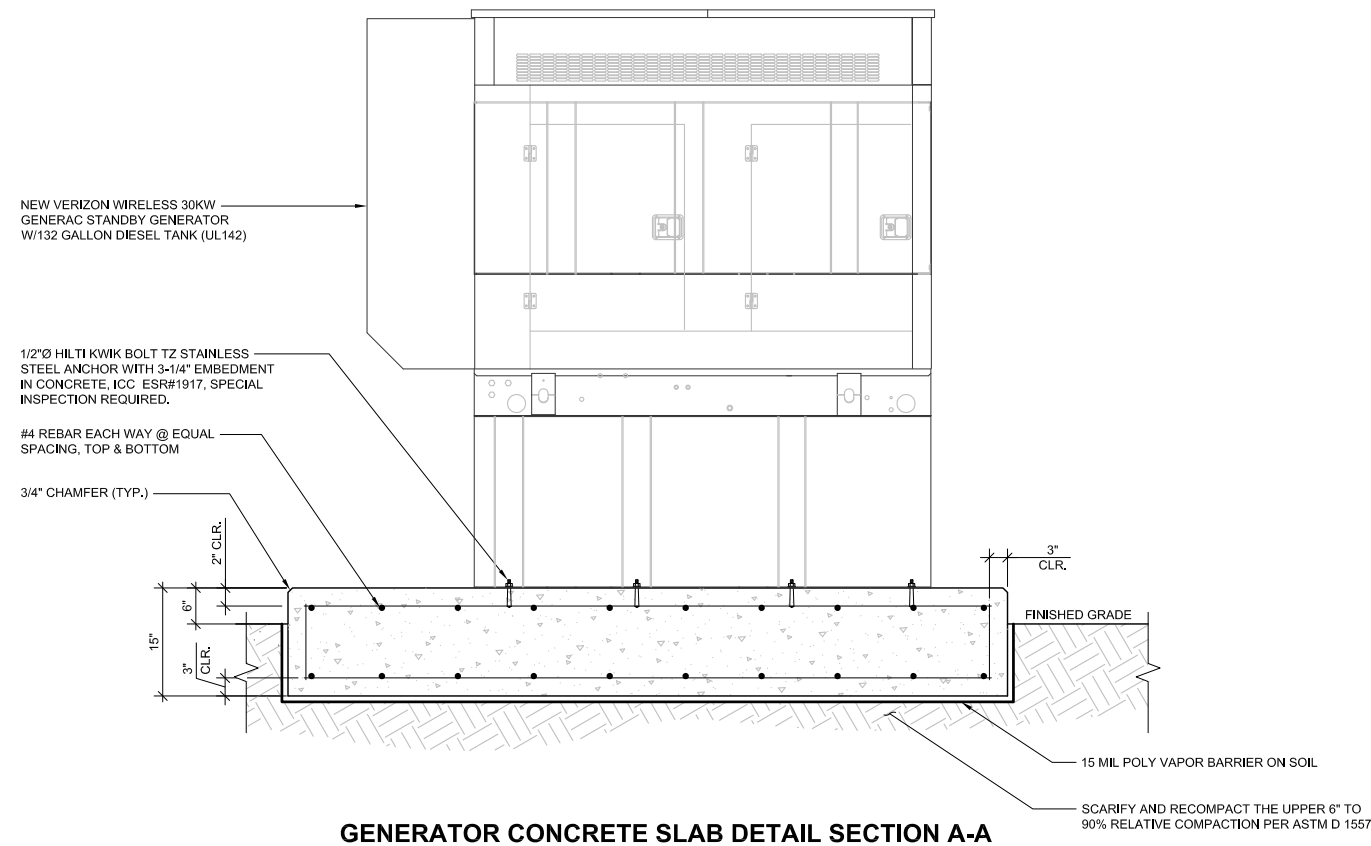


REAR VIEW

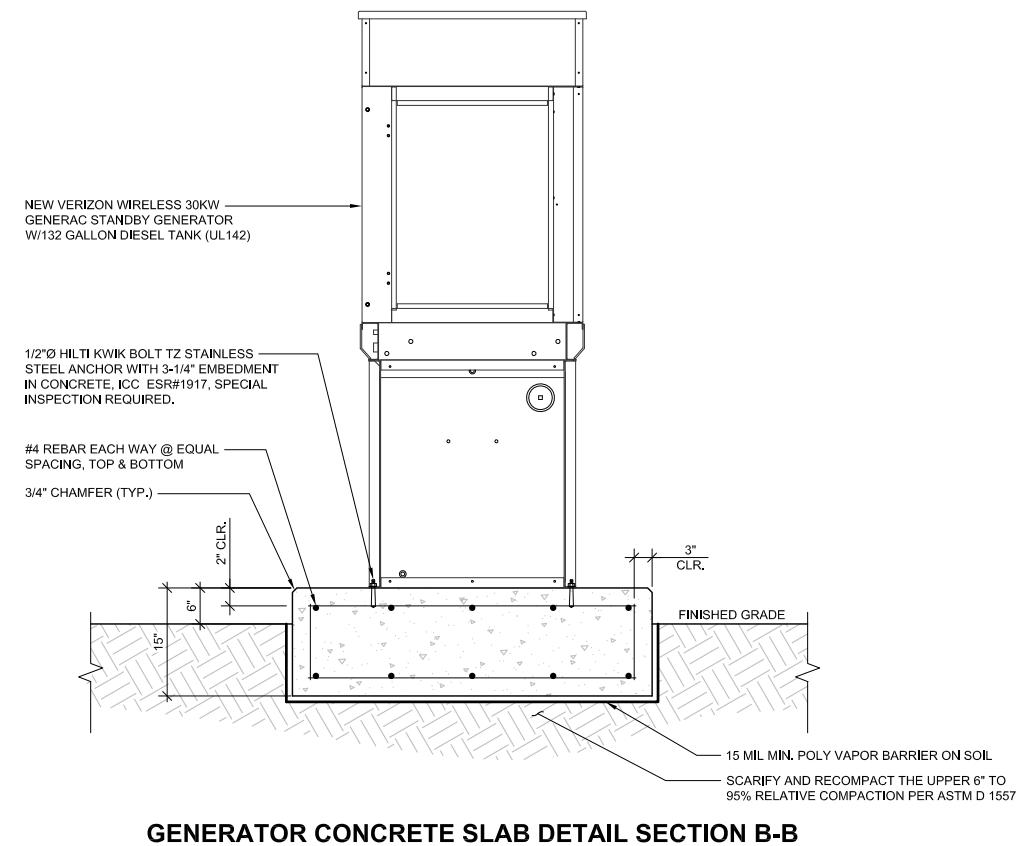
TOTAL WEIGHT = 3,797 LBS.
 (INCLUDING 132 GALLON DIESEL FUEL)

GENERAC DWG. # OF0835 30KW STANDBY GENERATOR W/132 GALLON DIESEL TANK (UL142)

SCALE
 N.T.S. **2**



GENERATOR CONCRETE SLAB DETAIL SECTION A-A



GENERATOR CONCRETE SLAB DETAIL SECTION B-B

30KW GENERAC STANDBY GENERATOR W/132 GALLON DIESEL TANK (UL 142) ANCHORING DETAILS

SCALE
 N.T.S. **2**

ISSUE STATUS

REV.	DATE	DESCRIPTION	BY
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1	02/26/15	95% CONSTRUCTION	SR
2	03/16/15	OUTDOOR EQUIPMENT	EC

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 5865 AVENIDA ENCINAS
 CARLSBAD, CA 92008
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 760.795.5200

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 WALNUT CREEK, CA 94598

LAKE CACHUMA
PSL # 276864
 2680 HWY 154
 SANTA BARBARA CA, 93105

LAKE CACHUMA
PSL # 276864
 2680 HWY 154
 SANTA BARBARA CA, 93105

SHEET TITLE:
STANDBY GENERATOR SPECS & ANCHORAGE DETAILS

A-8

ISSUE STATUS

REV.	DATE	DESCRIPTION	BY
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2	03/16/15	OUTDOOR EQUIPMENT	EC



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SANTA BARBARA CA, 93105

SHEET TITLE:
ANTENNA COLOR CODING & NOTES

E-1

SYMBOLS

- ⊗ GROUND ROD WITH ACCESS (TEST WELL)
- ⊗ XIT GROUND ROD
- ⊗ GROUND ROD
- ⊡ DISCONNECT SWITCH
- M UTILITY METER
- ⌋ CIRCUIT BREAKER
- ⌋ FUSE
- Ⓢ GENERATOR
- ⌋ LIGHT SWITCH
- COMPRESSION, CLAMP, OR DOUBLE HOLE LUG TYPE GROUND CONNECTION
- EXOTHERMIC CONNECTION (CADWELD) TO GROUND RING AND COMPRESSION TO GROUND HALO
- G — GROUNDING WIRE, DASHED LINE INDICATES UNDERGROUND
- T — TELEPHONE LINE, DASHED LINE INDICATES UNDERGROUND
- C — COAXIAL CABLE, DASHED LINE INDICATES UNDERGROUND
- A — ANTENNA COAX
- ② E3 DETAIL REFERENCE DETAIL NO.2 ON SHEET E3
- E/T — ELECTRICAL / TELEPHONE CABLE
- OH/E — OVERHEAD ELECTRICAL CABLES

ABBREVIATIONS

C	ACCA	ANTENNA CABLE COVER ASSEMBLY	GFI	GROUND FAULT CIRCUIT INTERRUPTER	RGS	RIGID GALVANIZED STEEL
	AWG	AMERICAN WIRE GAUGE	GND	GROUND	RWY	RACEWAY
	BTCW	BARE TINNED COPPER WIRE	GPS	GLOBAL POSITIONING SYSTEM	S.L.D.	SINGLE LINE DIAGRAM
		CONDUIT	GR	GROWTH	TMLP	VERIZON WIRELESS WIRELESS LIMITED PARTNERSHIP
	CIGBE	COAX INSULATED GROUND BAR EXTERNAL CONDUIT ONLY	IGR	INTERIOR GROUND RING (HALO)	TEL	TELEPHONE
	CO	CONDUIT ONLY	MIGB	MASTER ISOLATED GROUND BAR NEW (PROVIDE AND INSTALL UNLESS NOTED OTHERWISE)	TYP.	TYPICAL
	DWG	DRAWING	(N)	NEW (PROVIDE AND INSTALL UNLESS NOTED OTHERWISE)	WP	WEATHERPROOF EQUIPMENT
	EMT	ELECTRICAL METALLIC TUBING	PCS	PERSONAL COMMUNICATION SERVICE		
	NEW OR EX.	EXISTING	PDC	POWER PROTECTION CABINET		
	GEN	GENERATOR	PRC	PRIMARY RADIO CABINET		
			PVC	POLYVINYL CHLORIDE CONDUIT		

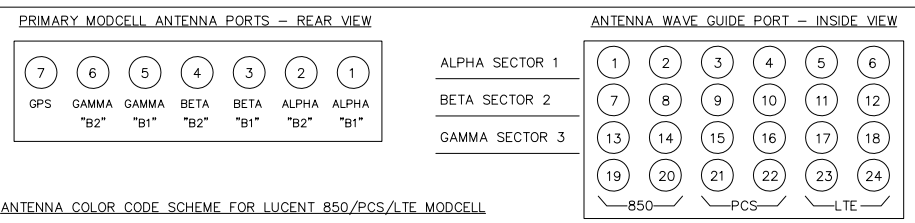
SYMBOLS & ABBREVIATIONS

SCALE
N.T.S. **2**

- UNDERGROUND ELECTRICAL CONDUIT FROM PG&E/VERIZON WIRELESS UTILITY POLE TO PG&E/ VERIZON WIRELESS ELECTRICAL METER ON EQUIPMENT SHELTER PER PG&E REQUIREMENTS.
- ALL BENDS FOR SERVICE CONDUIT TO BE PVC SCHEDULE 80 & 3 FT. RADIUS SWEEP.
- ALL GROUNDINGS FOR METER MUST BE DONE PER NEC & LOCAL BUILDING & SAFETY & PG&E REQUIREMENTS.
- ALL CONDUIT TRENCHING FROM METER TO THE SITE MUST HAVE MIN. 30" OF COVER TO FINISH GRADE. INSTALL UNDERGROUND PULL BOXES AS REQD. PER NEC & LOCAL BLDG. & SAFETY & PG&E REQUIREMENTS.
- ALL WIRE SPLICES IN UNDERGROUND PULL BOXES DONE PER NEC.
- WHEN COMMON TRENCHING IS USED FOR TELCO & POWER MIN. 12" SEPARATION BETWEEN POWER & TELCO CONDUITS IN TRENCH. AS REQUIRED BY P.G.&E. UTILITY COMPANY.
- FIELD VERIFY EXACT TRENCH ROUTE PER PG&E DRAWINGS.
- VERIZON WIRELESS METER/MAIN NEED TO BE LABELED & ALL CLEARANCE FOR ELECTRICAL EQUIPMENT BY NEC.
- GROUND RODS MAY BE USED FOR SITE GROUNDING IF DESIRED RESISTANCE IS ACHIEVED PER PG&E REQUIREMENTS.

UTILITY NOTES

SCALE
N.T.S. **3**



ANTENNA COLOR CODE SCHEME FOR LUCENT 850/PCS/LTE MODCELL

SECTOR SITE - 120 DEGREES (MODCELL)			
PORT NO.	DESCRIPTION	COLOR CODE	COMMENTS
1	ALPHA SECTOR 1 (850)		
1	ANTENNA TX1RX1	YELLOW/RED/GREEN	850 SYSTEM
2	ANTENNA TX2RX2	YELLOW/RED/GREE/GREEN	850 SYSTEM
7	BETA SECTOR 2 (850)		
7	ANTENNA TX3RX3	BLUE/RED/GREEN	850 SYSTEM
8	ANTENNA TX4RX4	BLUE/RED/RED/GREE/GREEN	850 SYSTEM
13	GAMMA SECTOR 3 (850)		
13	ANTENNA TX5RX5	ORANGE/RED/GREEN	850 SYSTEM
14	ANTENNA TX6RX6	ORANGE/RED/RED/GREE/GREEN	850 SYSTEM
3	ALPHA SECTOR 1 (PCS)		
3	ANTENNA TX1RX1	PURPLE/YELLOW/RED/GREEN	PCS SYSTEM
4	ANTENNA TX2RX2	PURPLE/YELLOW/RED/RED/GREE/GREEN	PCS SYSTEM
9	BETA SECTOR 2 (PCS)		
9	ANTENNA TX3RX3	PURPLE/BLUE/RED/GREEN	PCS SYSTEM
10	ANTENNA TX4RX4	PURPLE/BLUE/RED/RED/GREE/GREEN	PCS SYSTEM
15	GAMMA SECTOR 3 (PCS)		
15	ANTENNA TX5RX5	PURPLE/ORANGE/RED/GREEN	PCS SYSTEM
16	ANTENNA TX6RX6	PURPLE/ORANGE/RED/RED/GREE/GREEN	PCS SYSTEM
5	ALPHA SECTOR 1 (LTE)		
5	ANTENNA TX1RX1	PURPLE/PURPLE/YELLOW/RED/GREEN	LTE SYSTEM
6	ANTENNA TX2RX2	PURPLE/PURPLE/YELLOW/RED/RED/GREE/GREEN	LTE SYSTEM
11	BETA SECTOR 2 (LTE)		
11	ANTENNA TX3RX3	PURPLE/PURPLE/BLUE/RED/GREEN	LTE SYSTEM
12	ANTENNA TX4RX4	PURPLE/PURPLE/BLUE/RED/RED/GREE/GREEN	LTE SYSTEM
17	GAMMA SECTOR 3 (LTE)		
17	ANTENNA TX5RX5	PURPLE/PURPLE/ORANGE/RED/GREEN	LTE SYSTEM
18	ANTENNA TX6RX6	PURPLE/PURPLE/ORANGE/RED/RED/GREE/GREEN	LTE SYSTEM
23	GPS (850/PCS)	BLUE	850/PCS SYSTEM
24	GPS (LTE)	PURPLE/PURPLE/BLUE	LTE SYSTEM

GPS COLOR CODE			
PORT NO.	DESCRIPTION	COLOR CODE	COMMENTS
23	GPS (850/PCS)	BLUE	850/PCS SYSTEM
24	GPS (LTE)	PURPLE/PURPLE/BLUE	LTE SYSTEM

NOTE:
SHARED 850 AND PCS FREQUENCIES THROUGH A DIPLEXED MAINLINE COAX RUN IS TO BE MARKED (1) WITH A DOUBLE BAND OF THE SECTOR COLOR ON THE FIRST LINE, AND (2) WITH TRIPLE BAND OF THE SECTOR COLOR ON THE SECOND LINE.
EX: YY AND YYY; BB AND B/B; DD AND D/D

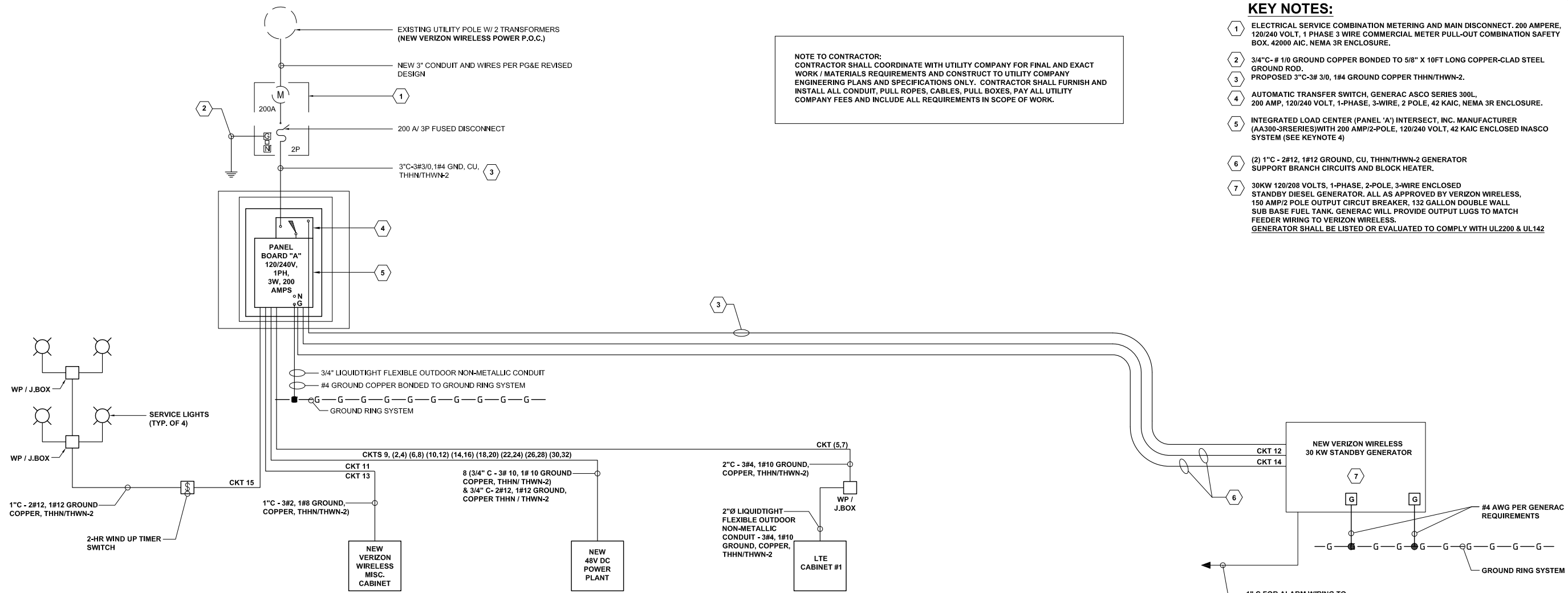
SHEET
-SID X

NOT USED

SCALE
N.T.S. **1**

ANTENNA COLOR CODE

SCALE
N.T.S. **4**



NOTE TO CONTRACTOR:
 CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

- KEY NOTES:**
- ELECTRICAL SERVICE COMBINATION METERING AND MAIN DISCONNECT. 200 AMPERE, 120/240 VOLT, 1 PHASE 3 WIRE COMMERCIAL METER PULL-OUT COMBINATION SAFETY BOX. 42000 AIC. NEMA 3R ENCLOSURE.
 - 3/4" C - # 10 GROUND COPPER BONDED TO 5/8" X 10FT LONG COPPER-CLAD STEEL GROUND ROD.
 - PROPOSED 3" C-# 3/0, 1#4 GND COPPER THHN/THWN-2.
 - AUTOMATIC TRANSFER SWITCH, GENERAC ASCO SERIES 300L, 200 AMP, 120/240 VOLT, 1-PHASE, 3-WIRE, 2 POLE, 42 KAIC, NEMA 3R ENCLOSURE.
 - INTEGRATED LOAD CENTER (PANEL 'A') INTERSECT, INC. MANUFACTURER (AA300-3R SERIES) WITH 200 AMP/2-POLE, 120/240 VOLT, 42 KAIC ENCLOSED INASCO SYSTEM (SEE KEYNOTE 4)
 - (2) 1" C - 2#12, 1#12 GROUND, CU, THHN/THWN-2 GENERATOR SUPPORT BRANCH CIRCUITS AND BLOCK HEATER.
 - 30KW 120/208 VOLTS, 1-PHASE, 2-POLE, 3-WIRE ENCLOSED STANDBY DIESEL GENERATOR. ALL AS APPROVED BY VERIZON WIRELESS, 150 AMP/2 POLE OUTPUT CIRCUIT BREAKER, 132 GALLON DOUBLE WALL SUB BASE FUEL TANK. GENERAC WILL PROVIDE OUTPUT LUGS TO MATCH GENERATOR WIRING TO VERIZON WIRELESS. GENERATOR SHALL BE LISTED OR EVALUATED TO COMPLY WITH UL2200 & UL142

ISSUE STATUS

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ONE LINE DIAGRAM

SCALE: **1**
 NTS

- ALL NEW GROUNDINGS FOR METER MUST BE DONE PER NEC & LOCAL BUILDING & SAFETY REQUIREMENTS.
- ALL NEW CONDUIT TRENCHING FROM METER TO THE SITE MUST HAVE MIN. 30" OF COVER TO FINISH GRADE. INSTALL UNDERGROUND PULL BOXES AS REQD. PER NEC & LOCAL BLDG. & SAFETY REQUIREMENTS & MUST HAVE TRAFFIC COVERS.
- ALL NEW UNDERGROUND PULL BOXES MUST HAVE MIN. 2 FT. OF 1" CRUSHED ROCK AS BASE, AND TOP OF BOX TO BE 1 1/2" ABOVE FINISH GRADE INDOOR: EMT (RGS ON TRAFFIC AREAS)
- ALL NEW WIRE SPLICES IN UNDERGROUND PULL BOXES DONE PER NEC.
- FIELD VERIFY EXACT BORING ROUTE.
- VERIZON WIRELESS NEW METER/MAIN NEED TO BE LABELED & ALL CLEARANCE FOR ELECTRICAL EQUIPMENT BY NEC.
- NEW GROUND RODS MAYBE USED FOR SITE GROUNDING IF DESIRED RESISTANCE IS ACHIEVED.
- CONTRACTOR TO INSTALL UTILITY CONDUIT (LATERAL).

- UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY COMPANY AND ARE FOR BID PURPOSES ONLY.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACKFILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

MAIN ELECTRICAL PANEL- INTERSECT, INC. AA300-3R SERIES. 120/240V, 1 PHASE, 3WIRE, 42 KAIC, 200AMP BUS
 200 AMP/2P MAIN BREAKER (SQUARE D)

DESCRIPTION	C	B	NO.	PHASE A	PHASE B	NO.	C	B	DESCRIPTION
SURGE SUPPRESSOR (INTERNAL)	30A	20A	1	1,200	-	2	20A	20A	48 VDC POWER PLANT RECTIFIER #1
	2P	2P	3	-	1,200	4	2P	2P	
	50A	20A	5	3,900	-	6	20A	20A	48 VDC POWER PLANT RECTIFIER #2
LTE CABINET #1	2P	2P	7	-	3,900	8	2P	2P	48 VDC POWER PLANT RECTIFIER #3
	20A	1P	9	2,400	-	10	20A	20A	48 VDC POWER PLANT RECTIFIER #4
MISC. CABINET CT1	20A	1P	11	-	2,400	12	2P	2P	48 VDC POWER PLANT RECTIFIER #5 (FUTURE)
MISC. CABINET GFI	20A	1P	13	2,400	-	14	20A	20A	48 VDC POWER PLANT RECTIFIER #6 (FUTURE)
SERVICE LIGHTS	20A	1P	15	-	2,800	16	2P	2P	48 VDC POWER PLANT RECTIFIER #7 (FUTURE)
SPACE			17	1,200	-	18	20A	20A	48 VDC POWER PLANT RECTIFIER #8 (FUTURE)
SPACE			19	-	1,200	20	2P	2P	SPACE
SPACE			21	1,200	-	22	20A	20A	SPACE
SPACE			23	-	1,200	24	2P	2P	SPACE
SPACE			25	1,200	-	26	20A	20A	SPACE
SPACE			27	-	1,200	28	2P	2P	SPACE
SPACE			29	1,200	-	30	20A	20A	SPACE
SPACE			31	-	1,200	32	2P	2P	SPACE
SPACE			33	-	-	34			SPACE
SPACE			35	-	-	36			SPACE
SPACE			37	-	-	38			SPACE
SPACE			39	-	-	40			SPACE
SPACE			41	-	-	42			SPACE
CONNECTED LOAD PHASE A				14,700					PHASE B- CONNECTED LOAD
TOTAL LOAD PHASE A + PHASE B =				29,800 W					
25% LCL =				400 W					
TOTAL LOAD (CONNECTED + 25% LCL) =				30,200 W					
TOTAL AMPS =				126 AMPS					

UTILITY GENERAL NOTES (AS REQUIRED)

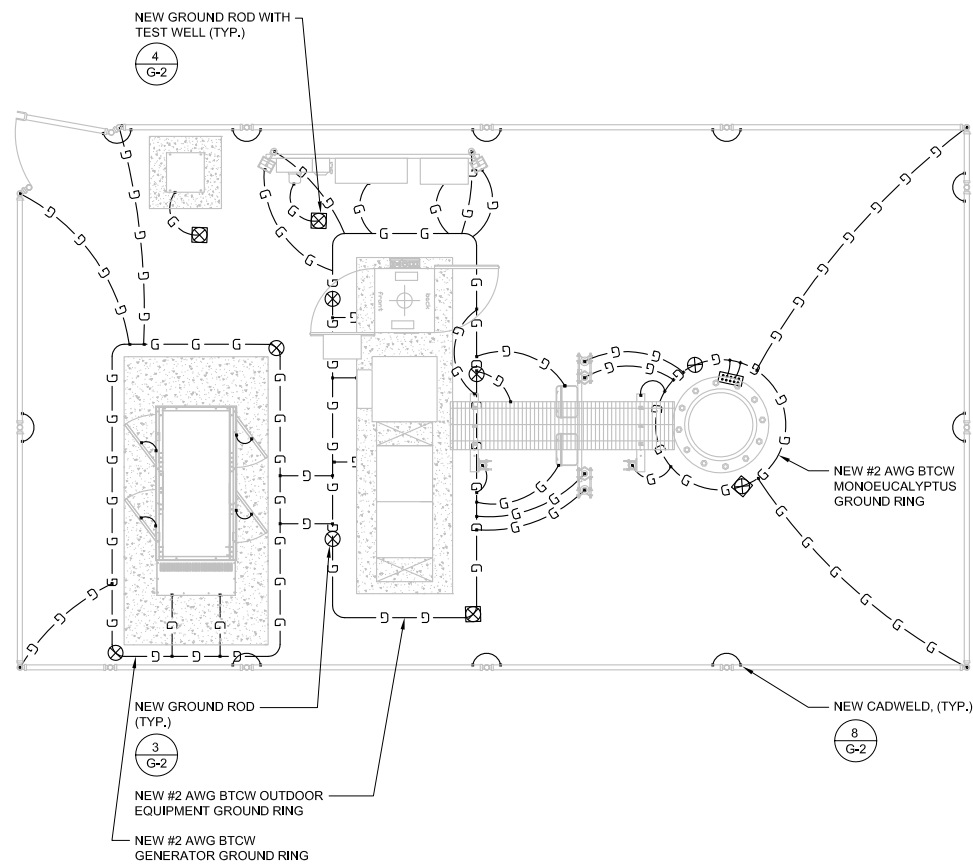
SCALE: **3**

PANEL SCHEDULE

LAKE CACHUMA
PSL # 276864
 2680 HWY 154
 SANTA BARBARA CA, 93105

SHEET TITLE:
1-LINE DIAGRAM, PANEL SCHEDULE & UTILITY NOTES

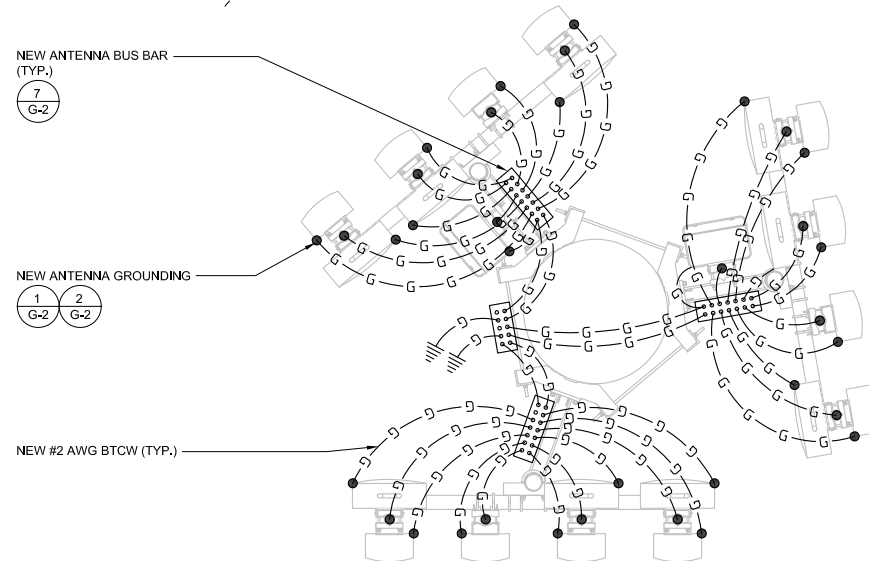
E-2



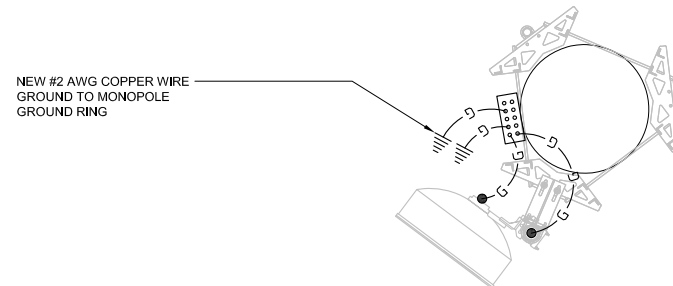
EQUIPMENT GROUNDING PLAN

0 1' 2' 4' SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)

1



PANEL ANTENNA RAD CENTER @ 42'-0"



MICROWAVE ANTENNA RAD CENTER @ 35'-0"

ANTENNA GROUNDING PLAN

0 6" 1' 2' SCALE: 1/2" = 1'-0" (24x36)
(OR) 1/4" = 1'-0" (11x17)

2

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS, ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS; #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS; EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS; EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 30" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE, WHICHEVER IS DEEPER.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST; TREAT WITH A COLD GALVANIZED SPRAY.
8. GROUND BARS:
 - A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
 - B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
12. ALL NEW EXTERIOR GROUNDING AND TOP OF NEW GROUNDING RODS SHALL BE BURIED TO MINIMUM DEPTH OF 1'-6" BELOW FINISH GRADE, ELECTRIC METER GROUND EXCEPTED.
13. ALL NEW GROUNDING LEAD CONDUCTORS SHALL BE #2 SOLID TINNED BARE COPPER.
14. NEW GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS, SUBMIT AND INDEPENDENT FALL OF POTENTIAL TESTING REPORT.
15. NOTIFY PROJECT MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
16. CHEMICAL GROUNDS SHALL BE XIT, CHEM-ROC OR APPROVED EQUAL, WHEN REQUIRED.
17. ALL NEW UNDERGROUND GROUNDING CONNECTORS ARE TO BE CADWELDED ABOVE GRADE GROUNDING SHALL BE DE EITHER CADWELD OR MECHANICAL AS SPECIFIED ON DRAWINGS.
18. ALL NEW GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH THE VERIZON WIRELESS STANDARDS AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.

NOT USED

SCALE N.T.S. 3

GROUNDING NOTES

SCALE N.T.S. 4

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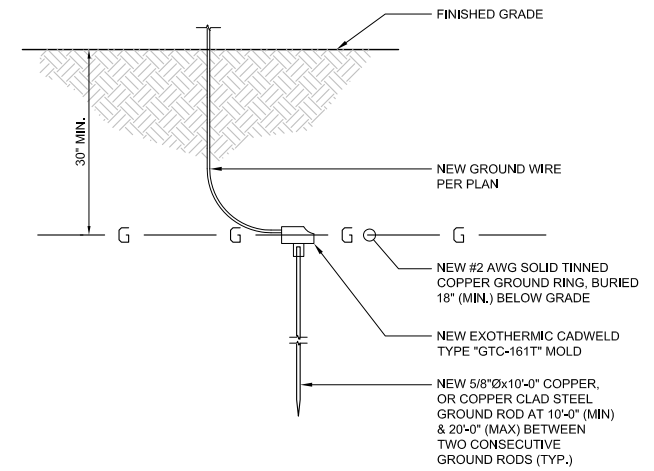
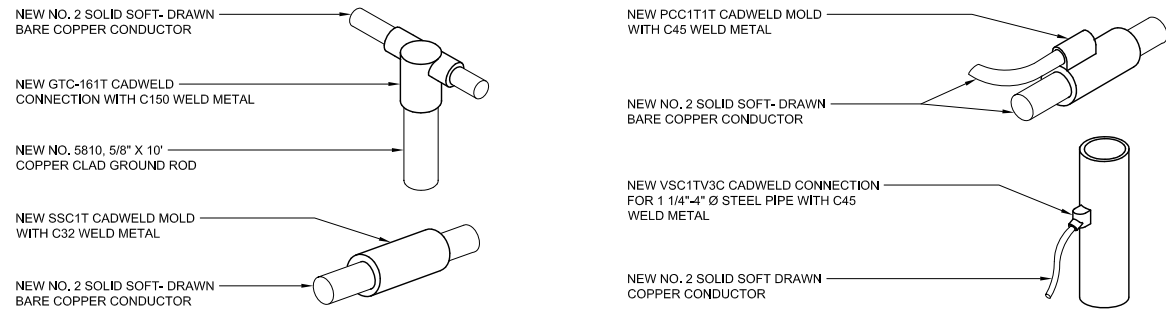
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PSL # 276864
2680 HWY 154
SANTA BARBARA CA, 93105

SHEET TITLE:
GROUND PLANE LAYOUT

G-1



CADWELDS

SCALE
N.T.S.

8

NOT USED

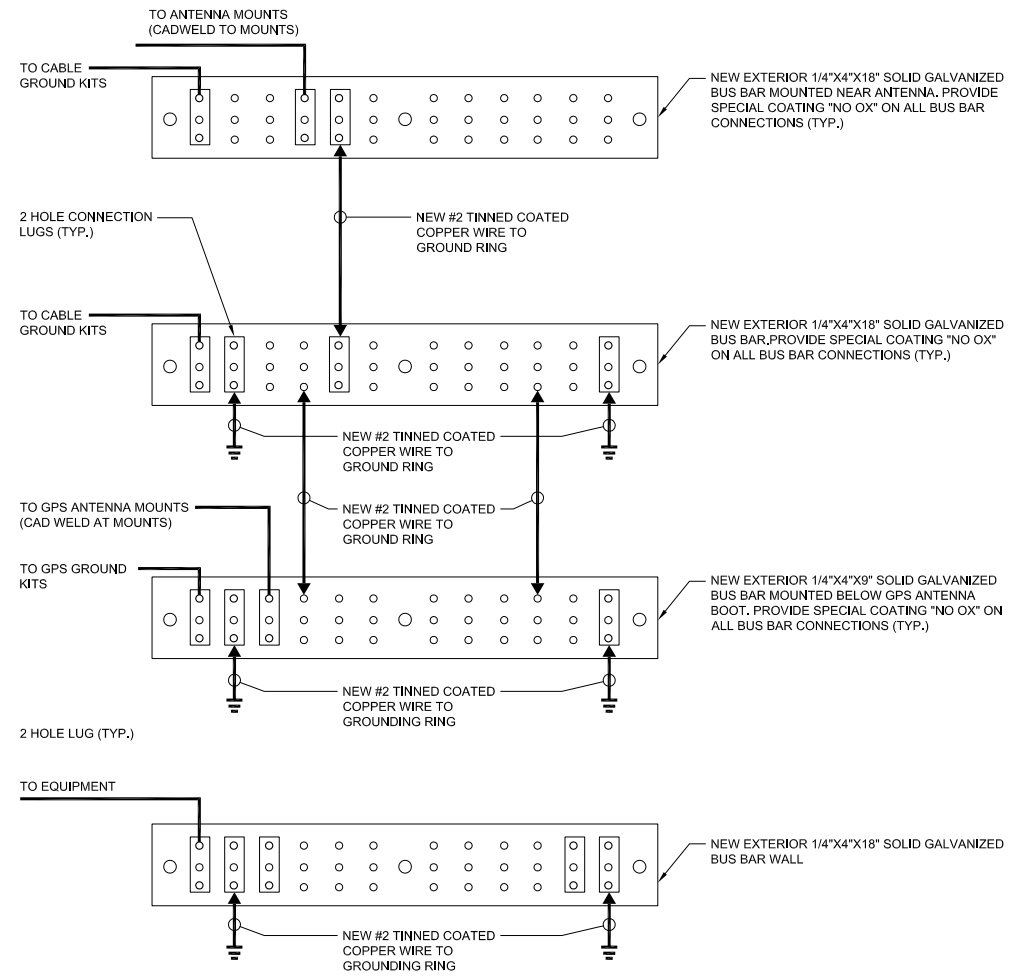
SCALE
N.T.S.

6

GROUND ROD

SCALE
N.T.S.

3



*EQUIPMENT TO BE CONNECTED TO GROUND BAR INCLUDES, POLYPHASER, SURGE ARRESTOR & TELCO.
NOTE: FOR BEAM GROUND, USE UNIVERSAL NON-INSULATED TOWER ATTACHEMNET.

GROUND BUS BAR DETAIL

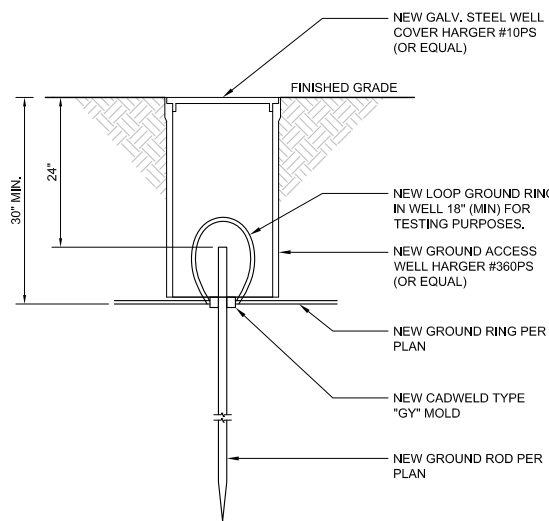
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7

TEST WELL DETAIL

SCALE
N.T.S.

4



NOT USED

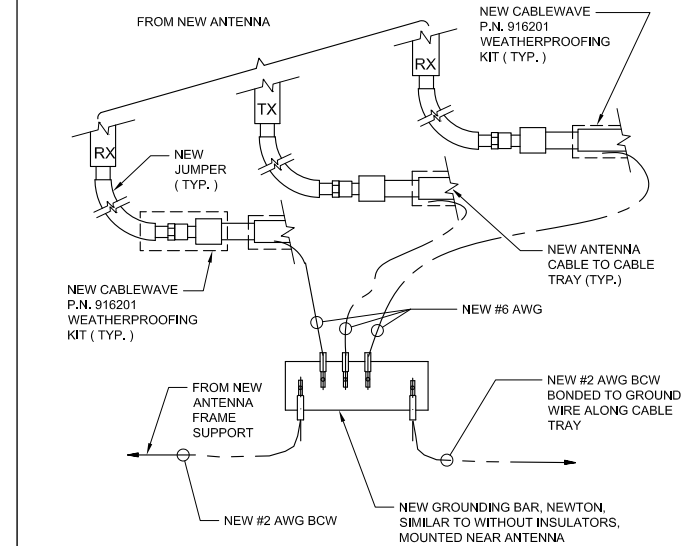
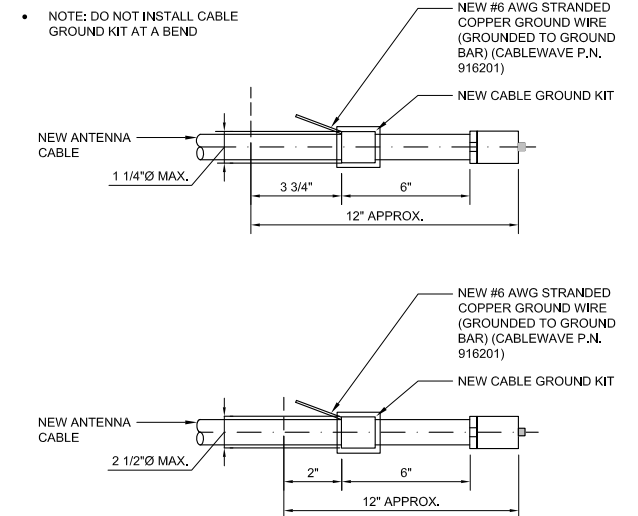
SCALE
N.T.S.

5

ANTENNA GROUND KIT

SCALE
N.T.S.

2



ANTENNA GROUND

SCALE
N.T.S.

1

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2680 HWY 154
SANTA BARBARA CA, 93105

SHEET TITLE:
GROUNDING DETAILS

G-2