



SF HIGHLANDS 005

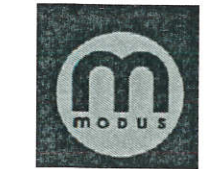
(NEAR) 1175 PARROTT DRIVE
SAN MATEO, CA 94402

SITE ID: SF HIGHLANDS BAYWOOD PARK 005
 LOCATION CODE: 483409
 PROJECT ID: 20171536395
 SITE TYPE: PG&E POLE TOP
 POLE #: 120092292
 COUNTY: SAN MATEO

RECEIVED
 MAR 01 2018
 San Mateo County
 Planning Division



2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598



240 STOCKTON ST., 3RD FLOOR
 SAN FRANCISCO, CA 94108



2930 DOMINGO AVE, SUITE 150
 BERKELEY, CA 94705

DRAWN BY: LM
 CHECKED BY: JB

REV	DATE	DESCRIPTION
0	10/05/17	90% CD
1	10/25/17	95% CD
2	12/20/17	100% CD
3	02/28/18	100% CD REV



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

SF HIGHLANDS BAYWOOD PARK 005
 (NEAR) 1175 PARROTT DRIVE
 SAN MATEO, CA 94402

TITLE SHEET

T-1

PLN2018-00079

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES & MODIFICATIONS THEY MAY IMPOSE.

VERIZON CONSTRUCTION	SIGNATURE: _____	DATE: _____
VERIZON - RF ENGINEER	SIGNATURE: _____	DATE: _____
VERIZON - EQUIPMENT ENGINEER	SIGNATURE: _____	DATE: _____
VERIZON REAL ESTATE	SIGNATURE: _____	DATE: _____
MODUS - CONSTRUCTION	SIGNATURE: _____	DATE: _____
MODUS - LEASING	SIGNATURE: _____	DATE: _____
OTHER (IF APPLICABLE)	SIGNATURE: _____	DATE: _____

PROJECT TEAM

APPLICANT: VERIZON WIRELESS 2785 MITCHELL DRIVE, SUITE 9 WALNUT CREEK, CA 94598 CONTACT: KAREN MCPHERSON PHONE: (925) 200.6328 EMAIL: karen.mcperson@verizonwireless.com	PROJECT MANAGER: MODUS, INC. 240 STOCKTON ST., 3RD FLOOR SAN FRANCISCO, CA 94108 CONTACT: SCOTT REVARD PHONE: (415) 595.0938 EMAIL: srevard@modus-corp.com CONTACT: KEVIN BOWYER phone: (408) 219.5442 EMAIL: kbowyer@modus-corp.com	CONSTRUCTION/IMPLEMENTATION MANAGER: MODUS, INC. 240 STOCKTON ST., 3RD FLOOR SAN FRANCISCO, CA 94108 CONTACT: CAL BORDONARO PHONE: (415) 261.0000 EMAIL: cbordonaro@modus-corp.com
SITE ACQUISITION: MODUS, INC. 240 STOCKTON ST., 3RD FLOOR SAN FRANCISCO, CA 94108 CONTACT: SCOTT REVARD PHONE: (415) 595.0938 EMAIL: srevard@modus-corp.com	A&E PROJECT MANAGER: COMM-SENSE CONSULTING 2930 DOMINGO AVE, SUITE 150 BERKELEY, CA 94705 PHONE: (916) 412.7896 EMAIL: commsense.jim@gmail.com	LAND USE PLANNER: MODUS, INC. 240 STOCKTON ST., 3RD FLOOR SAN FRANCISCO, CA 94108 CONTACT: KEVIN BOWYER PHONE: (408) 219.5442 EMAIL: kbowyer@modus-corp.com

PROJECT DESCRIPTION

VERIZON WIRELESS PROPOSES TO INSTALL A NEW WIRELESS COMMUNICATION SITE ON A WOODEN UTILITY POLE IN THE PUBLIC RIGHT-OF-WAY.

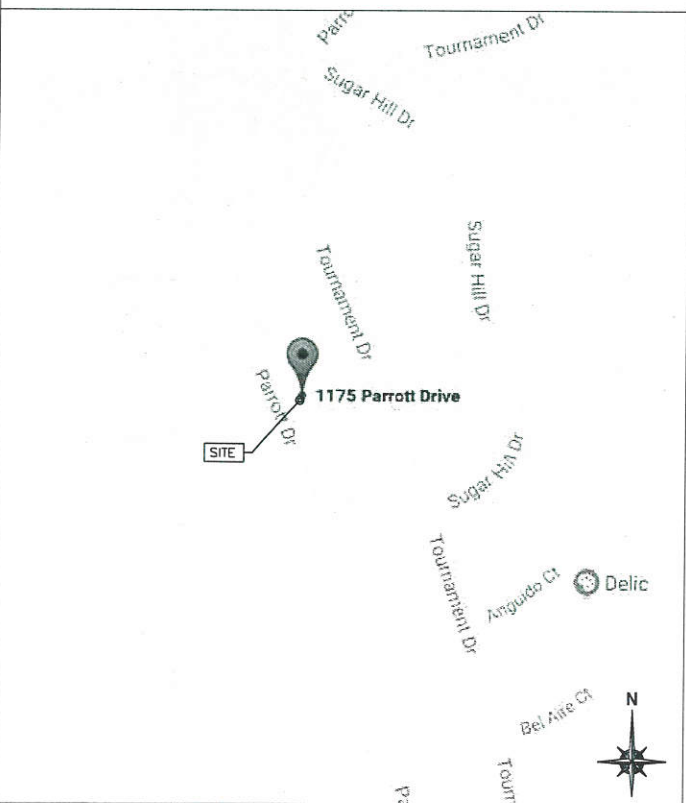
SCOPE:

- INSTALL (1) NEW 4' CANISTER ANTENNA ON TOP OF UTILITY POLE
- INSTALL (1) NEW 100A METER ON UTILITY POLE
- INSTALL (1) NEW 7' BAYONET EXTENSION
- INSTALL (1) NEW RRU2212 ON UTILITY POLE
- INSTALL (1) NEW RRU332 ON UTILITY POLE
- INSTALL (1) NEW PSU AC 08 & (1) NEW PSU AC 02 ON UTILITY POLE
- INSTALL (1) NEW COAX CONDUIT FROM EQUIPMENT TO NEW CANISTER ANTENNA
- INSTALL (1) NEW POWER CONDUIT FROM P.O.C. TO EQUIPMENT
- INSTALL (1) NEW FIBER CONDUIT FROM P.O.C. TO EQUIPMENT
- INSTALL (1) NEW EQUIPMENT BRACKET ON UTILITY POLE
- INSTALL (6) NEW HYBRID COUPLERS ON UTILITY POLE
- INSTALL (1) NEW AC PANEL ON UTILITY POLE
- INSTALL (1) NEW FIBER DEMARC BOX ON UTILITY POLE
- CABLE TO BE INSTALLED IN A TIGHT NEAT MANNER WITHOUT EXCESS CABLE LOOPS
- ALL VERIZON ADDED APPURTENANCES SHALL BE PAINTED TO MATCH POLE COLOR (NON-GLOSSY "SABLE" BY SHERWIN WILLIAMS, OR EQUIVALENT)

DRIVING DIRECTIONS

- DIRECTIONS FROM VERIZON WIRELESS OFFICE AT 2785 MITCHELL DRIVE, WALNUT CREEK, CA :
- HEAD NORTHEAST ON MITCHELL DR TOWARD OAK GROVE RD
 - TURN RIGHT ONTO OAK GROVE RD
 - TURN RIGHT ONTO YGNACIO VALLEY RD
 - YGNACIO VALLEY RD TURNS RIGHT AND BECOMES HILLSIDE AVE
 - USE THE LEFT 2 LANES TO TURN LEFT ONTO INTERSTATE 680 S RAMP TO SAN JOSE
 - MERGE ONTO I-680 S
 - TAKE EXIT 30B TO MERGE ONTO I-580 W TOWARD DUBLIN/OAKLAND
 - KEEP LEFT AT THE FORK TO CONTINUE ON I-238 N, FOLLOW SIGNS FOR I-880
 - USE THE RIGHT 2 LANES TO TAKE EXIT 16A FOR I-880 S TOWARD SAN JOSE/SAN MATEO BRIDGE
 - MERGE ONTO I-880 S
 - USE THE RIGHT 2 LANES TO TAKE EXIT 17 TO MERGE ONTO CA-92 W TOWARD SAN MATEO BRIDGE/JACKSON ST
 - TAKE EXIT 10 FOR W HILLSDALE BLVD
 - TURN RIGHT ONTO W HILLSDALE
 - SLIGHT LEFT ONTO PERIMETER RD
 - TURN LEFT ONTO CSM DR
 - TURN RIGHT ONTO PARROTT DR
 - DESTINATION WILL BE ON THE RIGHT

VICINITY MAP



SITE INFORMATION

SITE ADDRESS:	(NEAR) 1175 PARROTT DRIVE SAN MATEO, CA 94402
OWNER:	PG&E
APPLICANT:	VERIZON WIRELESS 2785 MITCHELL DRIVE, SUITE 9 WALNUT CREEK, CA 94598
LATITUDE:	N 37° 32' 17.42"
LONGITUDE:	W 122° 20' 44.37"
COUNTY:	SAN MATEO
JURISDICTION:	CITY OF SAN MATEO
ASSESSORS PARCEL NUMBER:	PUBLIC RIGHT-OF-WAY ADJACENT TO 038-130-120
ZONING:	PUBLIC ROW
ELEVATION:	±490.0' AMSL



CALL 811 BEFORE YOU DIG
IT'S THE LAW

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE (E) UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

DRAWING INDEX

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A-3	ELEVATIONS
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E-3	ELECTRICAL DETAILS

CODE COMPLIANCE

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

- 2016 CALIFORNIA CODE
- 2016 CALIFORNIA BUILDING CODE (CBC), BASED ON THE 2015 IBC
- 2016 CALIFORNIA RESIDENTIAL CODE (CRC), BASED ON THE 2015 IRC
- 2016 CALIFORNIA ELECTRICAL CODE (CEC), BASED ON THE 2014 NEC
- 2016 CALIFORNIA MECHANICAL CODE (CMC), BASED ON THE 2015 UMC
- 2016 CALIFORNIA PLUMBING CODE (CPC), BASED ON THE 2015 UPC
- 2016 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CALGREEN)
- 2016 CALIFORNIA FIRE CODES WITH ALL LOCAL AMENDMENTS
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY / COUNTY ORDINANCES
- GO 95

HANDICAP REQUIREMENTS:
 FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24, CHAPTER 118, SECTION 11038.

GENERAL NOTES

GENERAL CONSTRUCTION NOTES

- PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS. 2 WORKING DAYS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE AREA LINES, UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- ANY EXISTING COMPONENTS DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

GENERAL NOTES FOR EXISTING CELL SITES

- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUT DOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES. GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD (N) TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION.

APPLICABLE CODES, REGULATIONS AND STANDARDS:

- CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A/HJ) FOR THE LOCATION.
- THE EDITION OF THE A/HJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE TIME OF PERMITTING AWARD SHALL GOVERN THE DESIGN.
- CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
 - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) B1, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM (IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
 - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
- TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
 - TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
 - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
 - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
 - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
- ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

- MAINTAIN 24" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS, U.O.N.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
- REFER TO SHEET E-1 FOR ADDITIONAL REQUIREMENTS

GENERAL GROUNDING NOTES

- GROUNDING SHALL BE TESTED AT 5 OHMS OR LESS.
- WOOD MOLDING, STAPLED EVERY 3'-0" AND AT EACH END.

GENERAL CONDUIT NOTES

- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE AND ELSEWHERE AS NOTES. TRANSITION FROM SCHEDULE 40 PVC OR RIGID STEEL CONDUIT TO SCHEDULE 80 USING APPROVED FITTINGS DESIGNED TO PROVIDE A SMOOTH INTERIOR WALL TRANSITION TO THE REDUCED INTERIOR DIAMETER OF SCHEDULE 80. ADJUST CONDUIT SIZE IF NECESSARY TO MAINTAIN THE INTERIOR AREA REQUIRED FOR THE WIRING SPECIFIED.
- GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- CONTRACTOR TO STUB UP POLE 10" w/ 3" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 3" STUB SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.
- ZRC COLD GALVANIZING COMPOUND OR EQUIVALENT IS REQUIRED ON EXPOSED THREADS IN RIGID STEEL CONDUIT AND THE CUT ENDS OF SUPPORT STRUTS, ETC. TO PREVENT RUSTING.

TYPICAL P.O.W. POLE CONSTRUCTION NOTES

- CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE.
- ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
- NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2"
- ALL HOLES IN POLE LEFT FROM REARRANGEMENT OF CLIMB STEPS TO BE FILLED.
- 90° SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST TRANSITION ON THE INSIDE OR BOTTOM OF THE ARM (NO CABLE ON TOP OF ARM).
- USE 90° CONNECTOR AT CABLE CONNECTION FOR OMNI DOWN ANTENNAS.
- USE CABLE CLAMPS TO SECURE CABLE TO ARMS. PLACE 2" VERIZON WIRELESS CABLE I.D. TAGS ON BOTH SIDES OF ARMS.
- USE 1/2" DIA. CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
- PLACE GPS ON ARM OF SOUTHERN SKY EXPOSURE AT MINIMUM 6" FROM TRANSMIT ANTENNA WHICH IS 24" AWAY FROM CENTER OF POLE.
- FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

CONTRACTOR REQUIREMENTS

DO NOT SCALE OFF DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK

ABBREVIATIONS

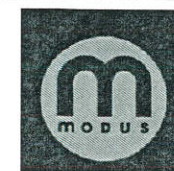
A.B.	ANCHOR BOLT	G.I.B.	GLUE LAMINATED
ABV.	ABOVE	(GLU-LAM)	BEAM
ACCA	ANTENNA CABLE COVER ASSEMBLY	GPS	GLOBAL POSITIONING SYSTEM
ADD'L	ADDITIONAL	GRND.	GROUND
A.F.F.	ABOVE FINISHED FLOOR	HDR.	HEADER
A.F.G.	ABOVE FINISHED GRADE	HGR.	HANGER
AGL	ABOVE GROUND LEVEL	HI.	HEIGHT
ALUM	ALUMINUM	ICGB.	ISOLATED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

LEGEND

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



2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



240 STOCKTON ST., 3RD FLOOR
SAN FRANCISCO, CA 94108



2930 DOMINGO AVE, SUITE 150
BERKELEY, CA 94705

DRAWN BY: LM

CHECKED BY: JB

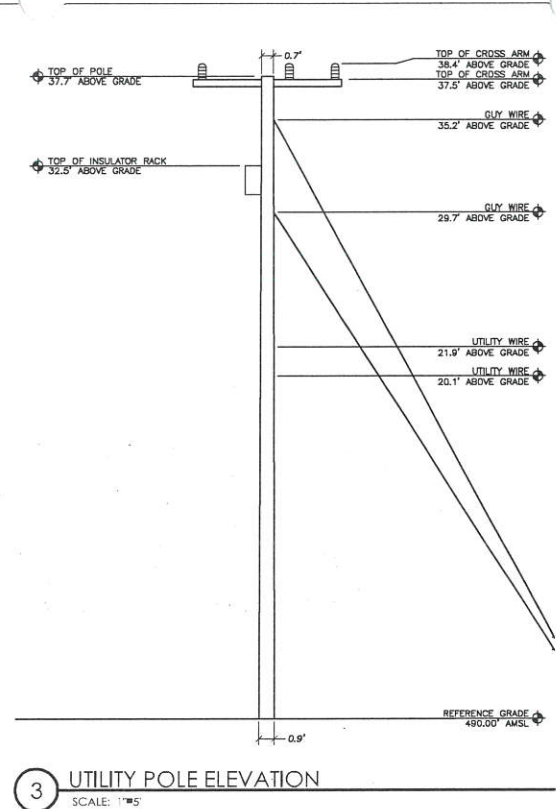
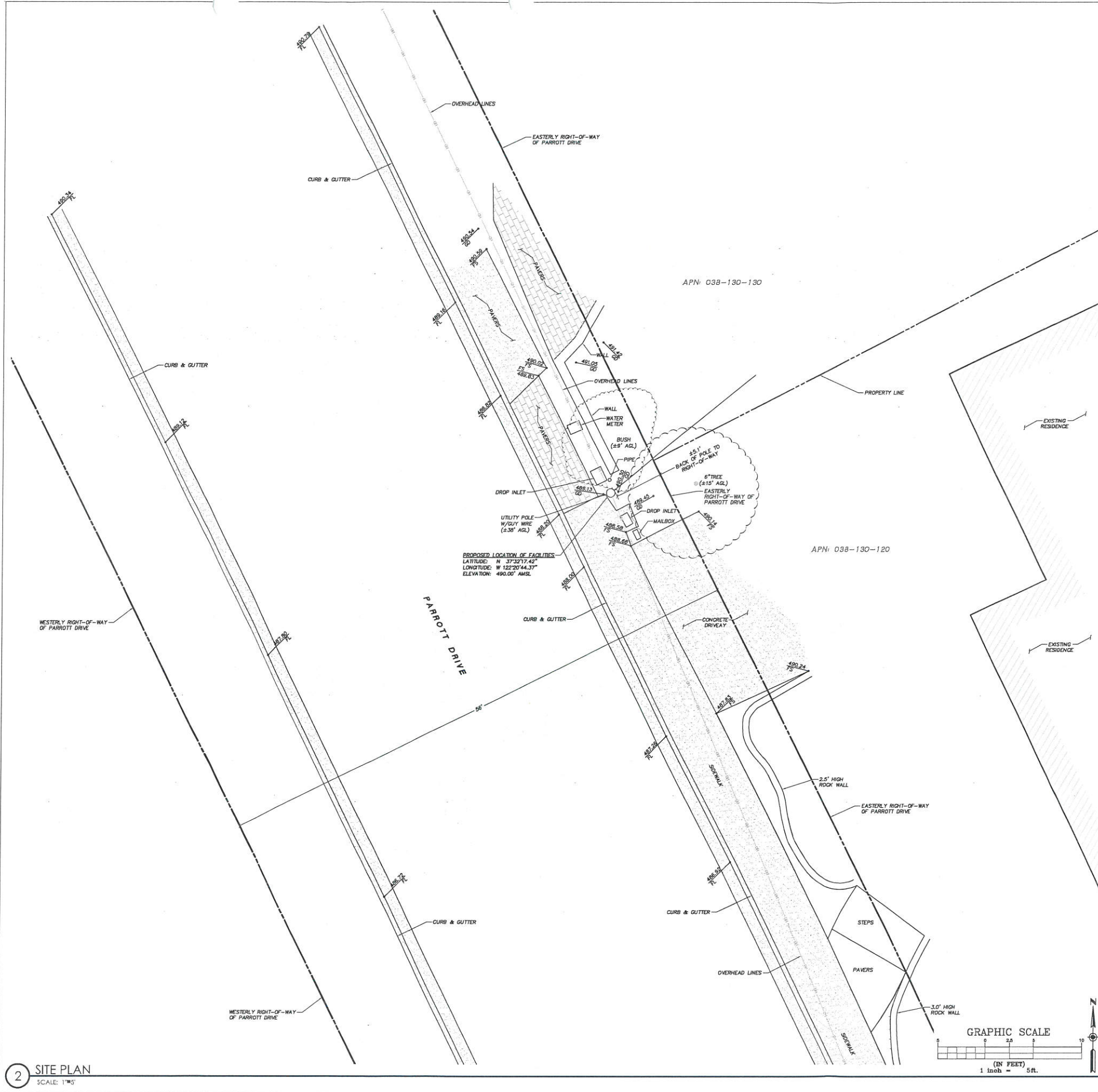
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1	10/25/17	95% CD
2	12/20/17	100% CD
3	02/28/18	100% CD REV.



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SF HIGHLANDS
BAYWOOD PARK 005
(NEAR) 1175 PARROTT DRIVE
SAN MATEO, CA 94402

GENERAL NOTES



3 UTILITY POLE ELEVATION
SCALE: 1"=5'

BOUNDARY AND TITLE INFORMATION

THIS MAP IS A GRAPHIC DEPICTION OF DATA COMPILED FROM MAPS AND VARIOUS OTHER INFORMATION. IT IS NOT A BOUNDARY SURVEY. THIS MAP IS A TOPOGRAPHIC MAP SHOWING PROPERTY LINES PLOTTED FROM SAID RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. THE LIMITS OF TOPOGRAPHIC DATA AND/OR IMPROVEMENTS GATHERED AND DEPICTED ARE LIMITED TO THE CONTRACTUAL SCOPE FOR THIS PROJECT. NO MONUMENTS WERE SET OR WILL BE SET. NO TITLE RESEARCH WAS PERFORMED BY OMNI DESIGN GROUP INC. PROPERTY LINE LOCATION COULD POSSIBLY SHIFT FROM LOCATIONS SHOWN HEREON SHOULD A BOUNDARY SURVEY BE PERFORMED. LOCATIONS OF EXISTING FEATURES RELATIVE TO PROPERTY LINES THEREFORE ARE APPROXIMATE.

BASIS OF BEARINGS

THE BEARINGS ARE BASED UPON CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD 83

BENCHMARK:

TRIMBLE R8 GPS SYSTEM WAS USED TO OBSERVE ONSITE CONTROL. DATA PROCESSED THROUGH NATIONAL GEODETIC SURVEYS ONLINE POSITIONING USER SERVICE TO OBTAIN STATE PLANE COORDINATES AND LATITUDE AND LONGITUDE (NAD 83) ALONG WITH ELEVATIONS (NAVD 88).

NOTES:

- DATE OF SURVEY: 06/08/17
- NO UNDERGROUND UTILITIES WERE LOCATED.

LEGEND

- EP = EDGE OF PAVEMENT
- FL = FLOWLINE
- FS = FINISHED SURFACE
- GD = GROUND ELEVATION
- TC = TOP OF CURB
- AGL = ABOVE GRADE LEVEL
- AMSL = ABOVE MEAN SEA LEVEL

1 BOUNDARY & LEGAL DESCRIPTIONS
SCALE: NONE



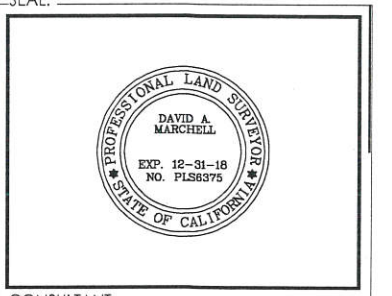
PROJECT INFORMATION:
SF HIGHLANDS BAYWOOD PARK 005
VERIZON SITE #438409
1175 PARROTT DR
SAN MATEO, CA

CURRENT ISSUE DATE:
07/10/17

ISSUED FOR:
100% SURVEY

REV.:	DATE:	DESCRIPTION:	BY:

COORDINATING ARCHITECT:
omni
Architecture
Civil Engineering
Surveying
Telecommunications
711 Tank Farm Road, Suite 100
San Luis Obispo, California 93401
Phone: (805) 544-9700
www.omnideisigngroup.com
email: omni@ooglo.com

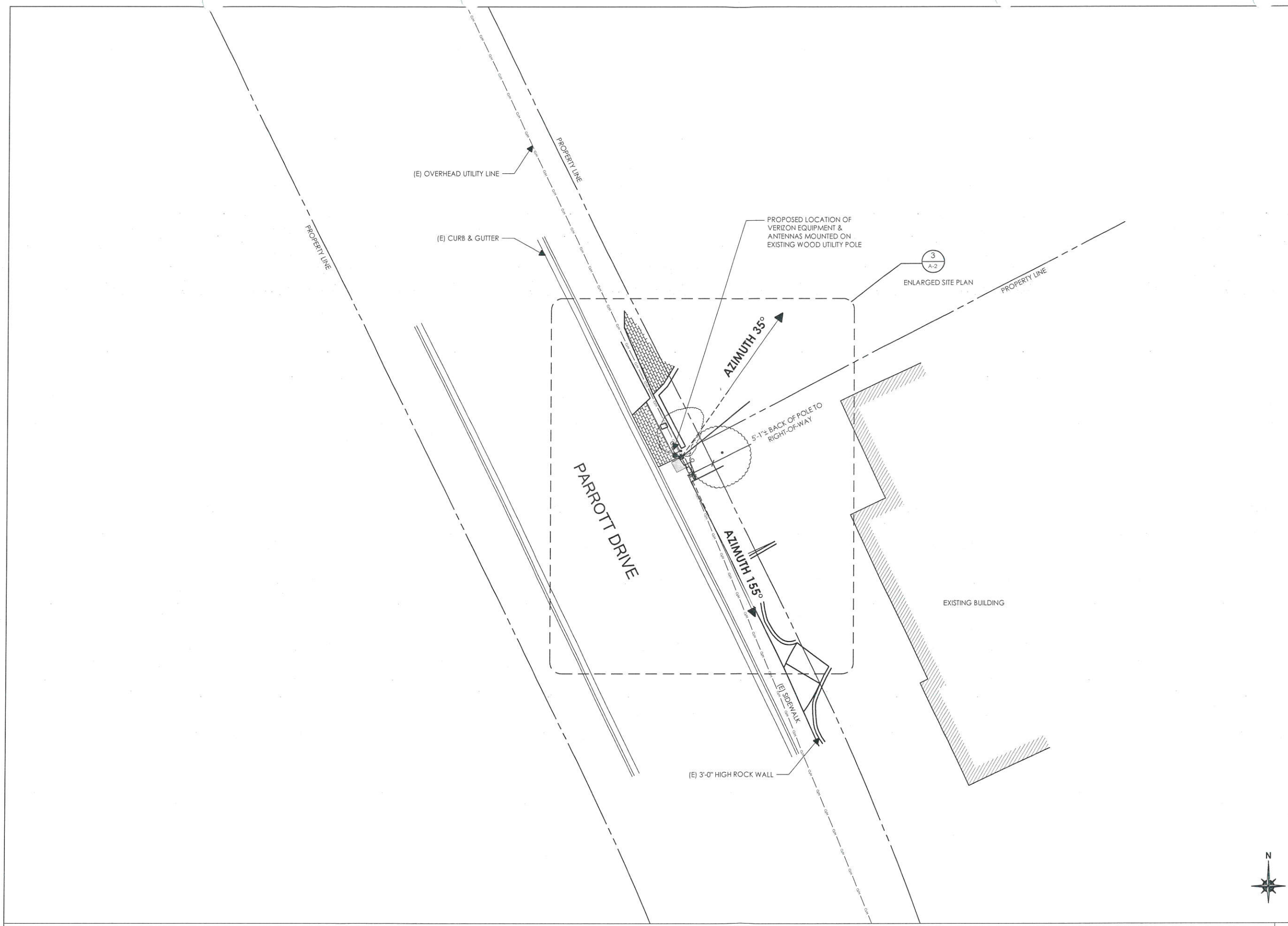


CONSULTANT:
Modus, Inc.
240 Stockton Street, 3rd Floor
San Francisco, CA 94108

DRAWN BY: AK/DKN
CHK.: DM
APV.: DM

SHEET TITLE:
SITE PLAN

SHEET NUMBER: C-1
REVISION: 1180-16

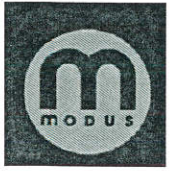


SITE PLAN

24"x36" SCALE: 1" = 10'-0"
 11"x17" SCALE: 1" = 20'-0"
 10 5 0 10 1



2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598



240 STOCKTON ST., 3RD FLOOR
 SAN FRANCISCO, CA 94108



2930 DOMINGO AVE, SUITE 150
 BERKELEY, CA 94705

DRAWN BY: LM
 CHECKED BY: JB

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3	02/28/18	100% CD REV



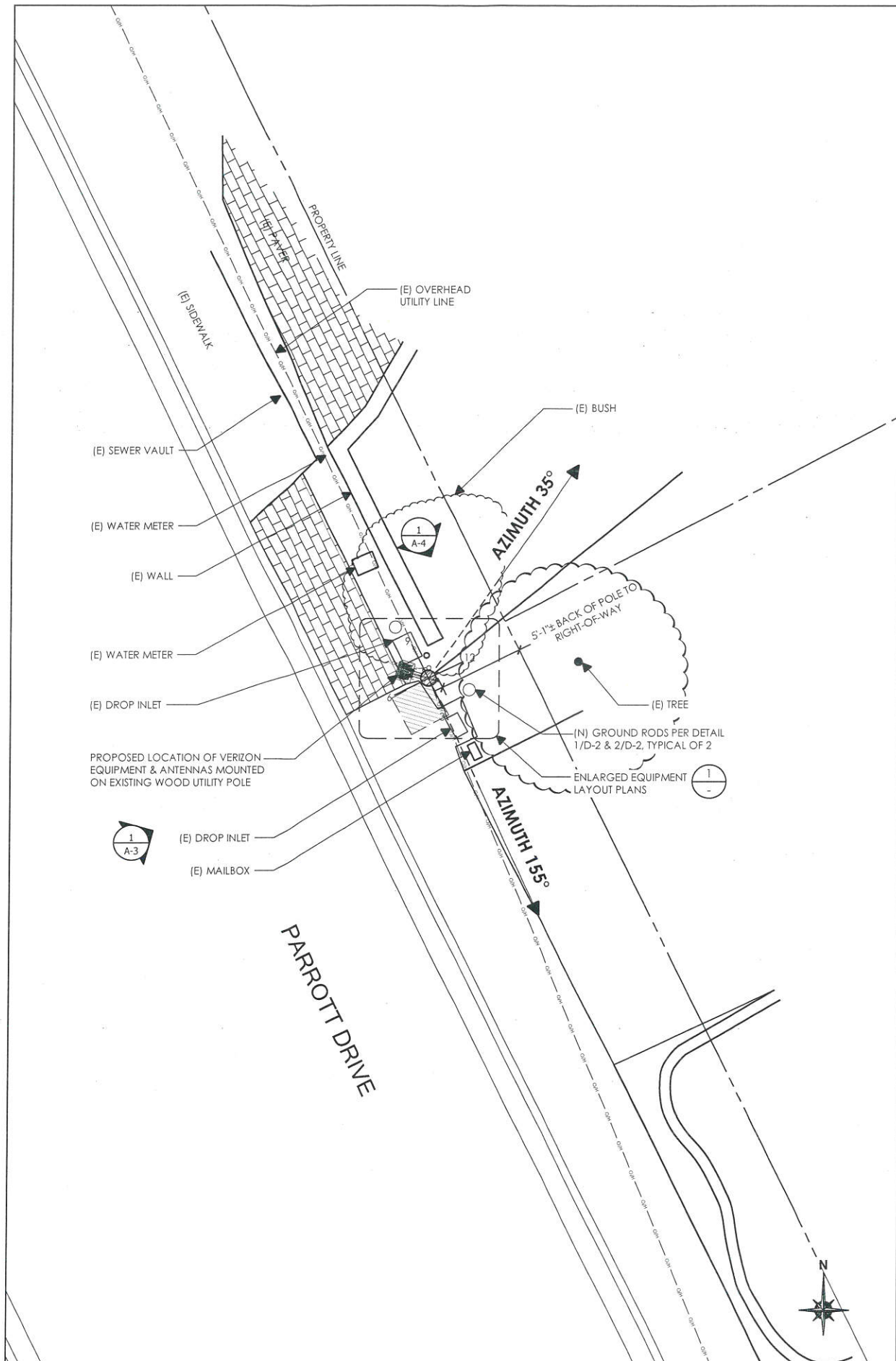
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BAYWOOD PARK 005
 (NEAR) 1175 PARROTT DRIVE
 SAN MATEO, CA 94402

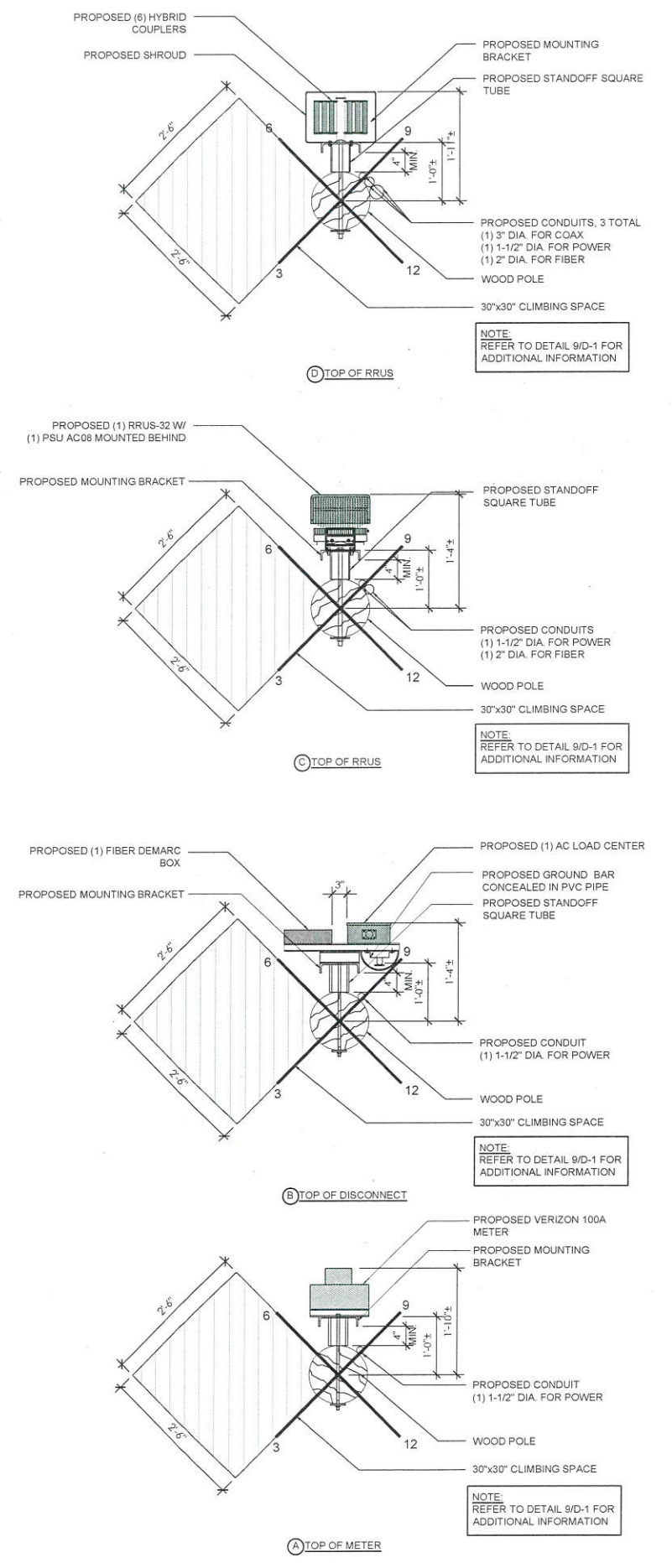
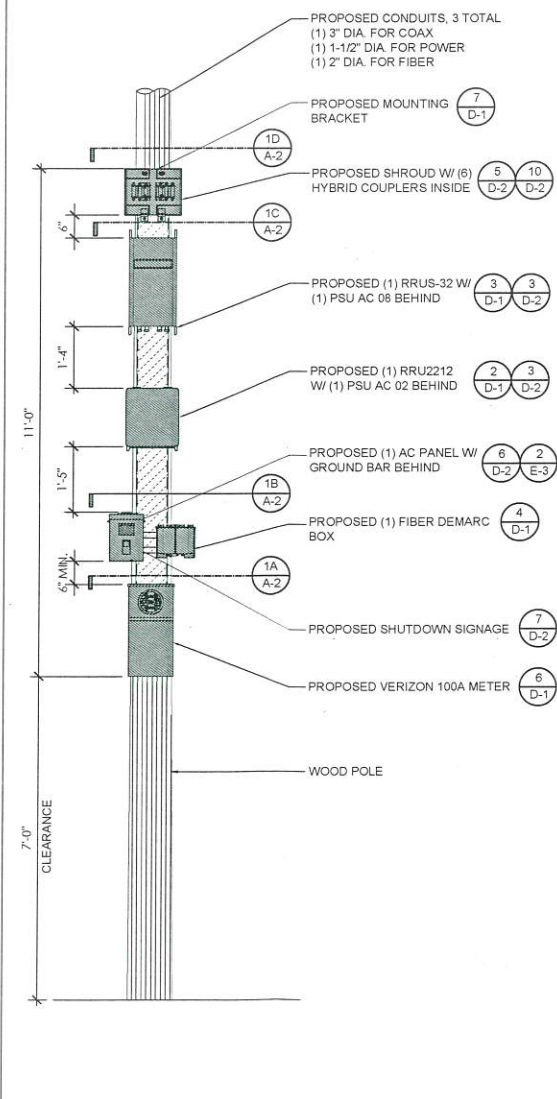
SITE PLAN

A-1





- NOTES:
1. ALL EQUIPMENT SHALL BE PLACED (VERTICALLY) AS CLOSE AS ALLOWED BY POLE OWNER, WHILE MAINTAINING MINIMUM CLEARANCE REQUIREMENTS.
 2. MAINTAIN 4" MIN. OFFSET BETWEEN THE MOUNTING BRACKET FLANGE AND THE POLE
 3. ALL ANTENNAS, BRACKETS, CABLING, CONDUIT, AND OTHER EQUIPMENT WILL BE PAINTED TO MATCH POLE COLOR (NON-GLOSSY SABLE BY SHERWIN WILLIAMS, OR EQUIVALENT)
 4. SWEEP CONDUIT RUNS AROUND (E) CROSS ARMS WHERE THEY OCCUR. SEE DETAIL 12/D-1
 5. CABLING TO BE INSTALLED IN A TIGHT NEAT MANNER WITHOUT EXCESS CABLE LOOPS



verizon

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MODUS

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SAN FRANCISCO, CA 94108

COMSENSE

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BERKELEY, CA 94705

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2	12/20/17	100% CD
3	02/28/18	100% CD REV

Professional Engineer Seal:
STATE OF CALIFORNIA
NO. 66433
Exp. 12/31/19

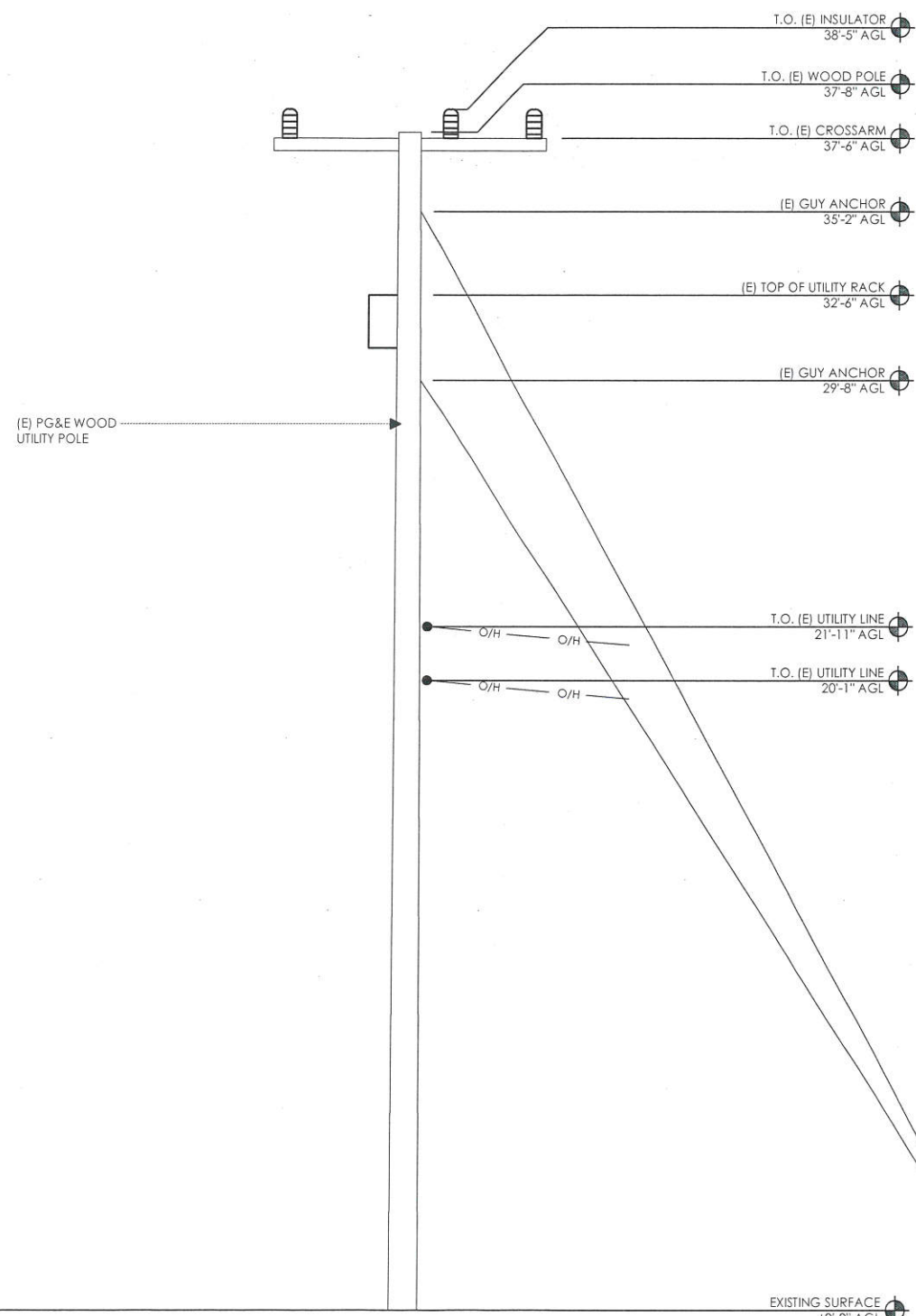
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BAYWOOD PARK 005**

(NEAR) 1175 PARROTT DRIVE
SAN MATEO, CA 94402

ENLARGED SITE PLAN & PROPOSED ELEVATION / EQUIPMENT PLANS

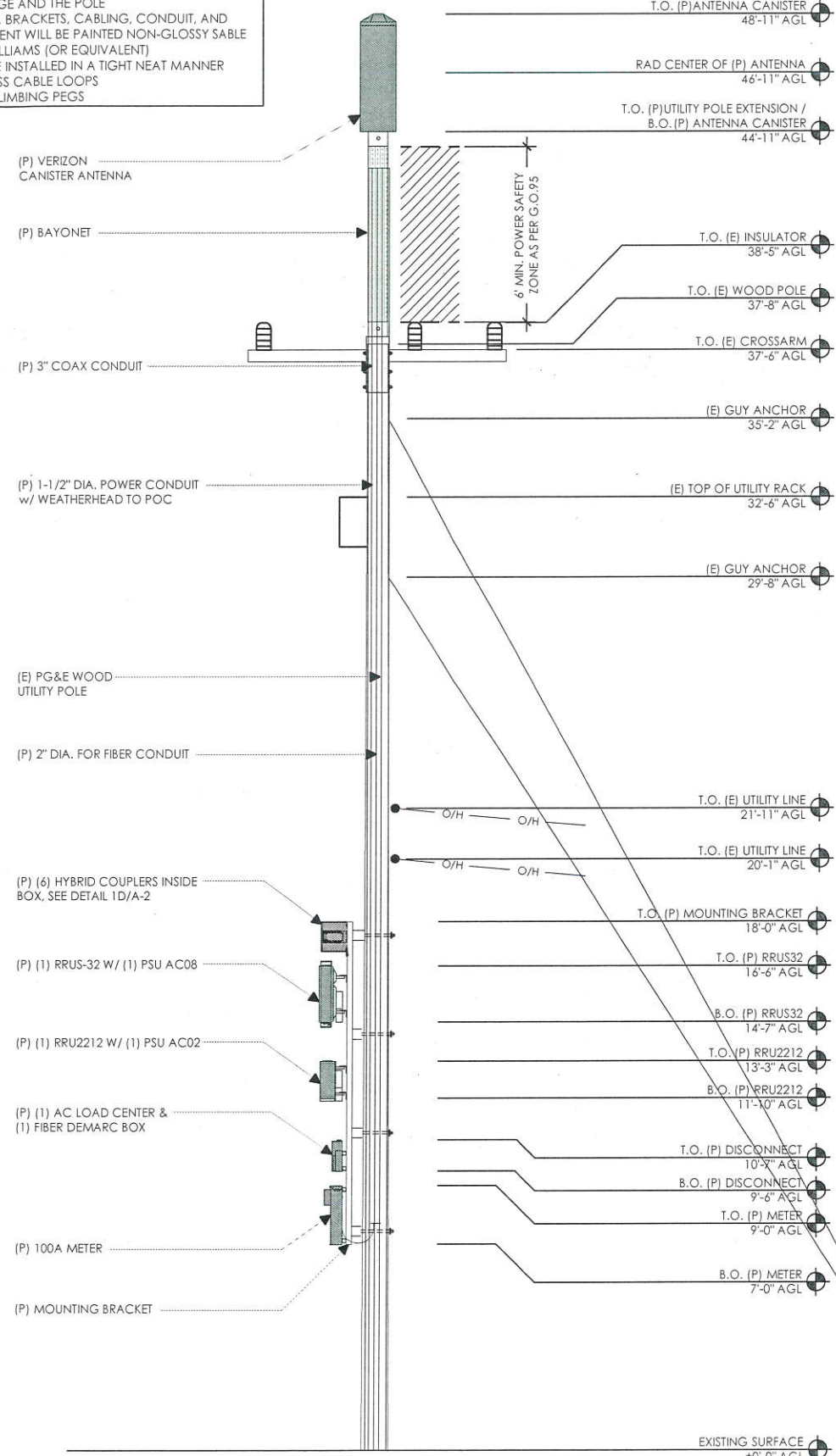
A-2



EXISTING FRONT ELEVATION

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

- NOTES:
1. ALL EQUIPMENT SHALL BE PLACED (VERTICALLY) AS CLOSE AS ALLOWED BY POLE OWNER, WHILE MAINTAINING MINIMUM CLEARANCE REQUIREMENTS.
 2. MAINTAIN 6" MIN. CLEARANCE TO GUY WIRE FROM PROPOSED EQUIPMENT.
 3. MAINTAIN 4" MIN. OFFSET BETWEEN THE MOUNTING BRACKET FLANGE AND THE POLE
 4. ALL ANTENNAS, BRACKETS, CABLING, CONDUIT, AND OTHER EQUIPMENT WILL BE PAINTED NON-GLOSSY SABLE BY SHERWIN WILLIAMS (OR EQUIVALENT)
 5. CABLING TO BE INSTALLED IN A TIGHT NEAT MANNER WITHOUT EXCESS CABLE LOOPS
 6. NO EXISTING CLIMBING PEGS

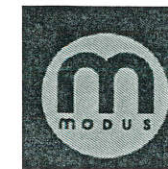


PROPOSED FRONT ELEVATION

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



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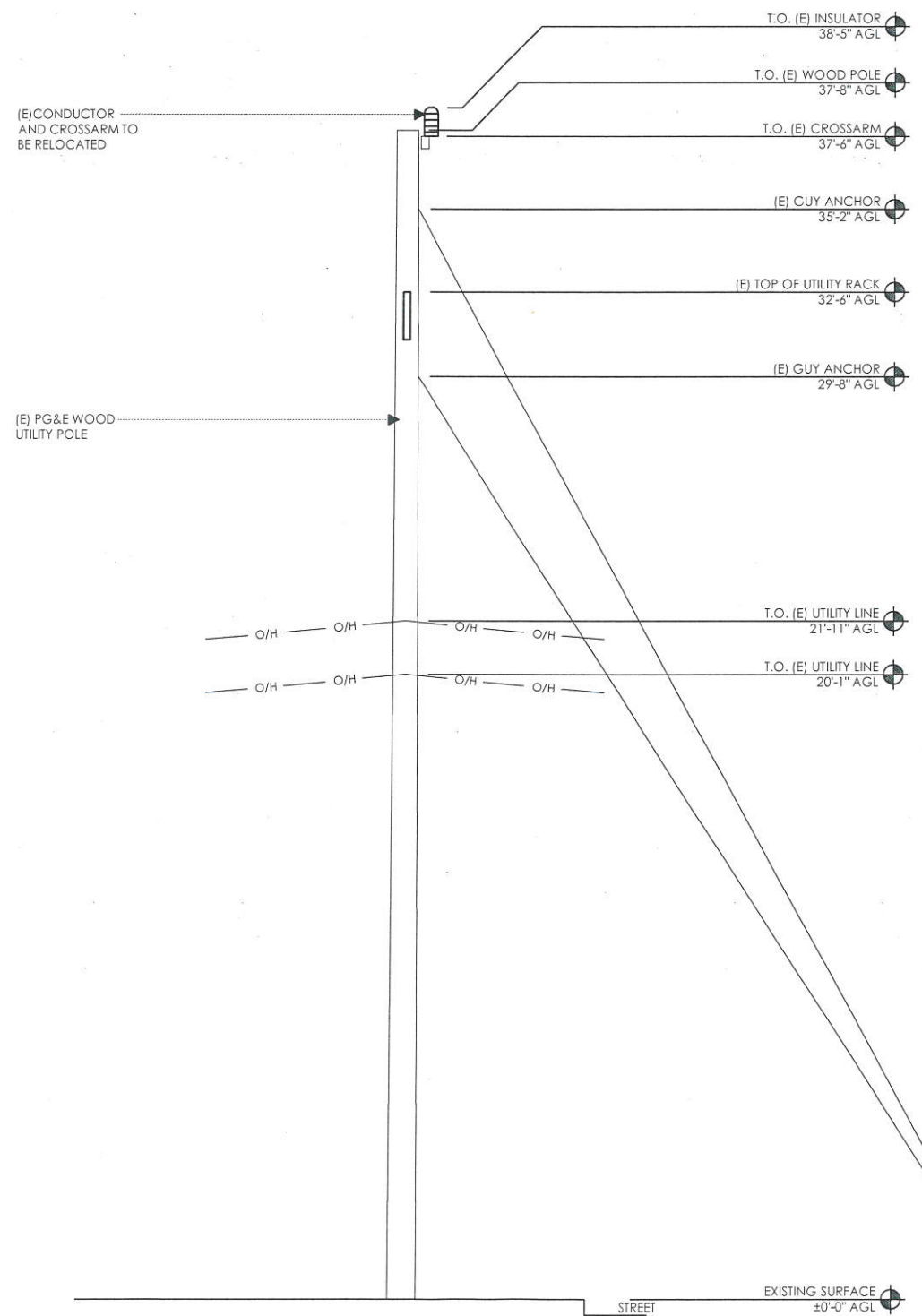


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 (NEAR) 1175 PARROTT DRIVE
 SAN MATEO, CA 94402

ELEVATIONS

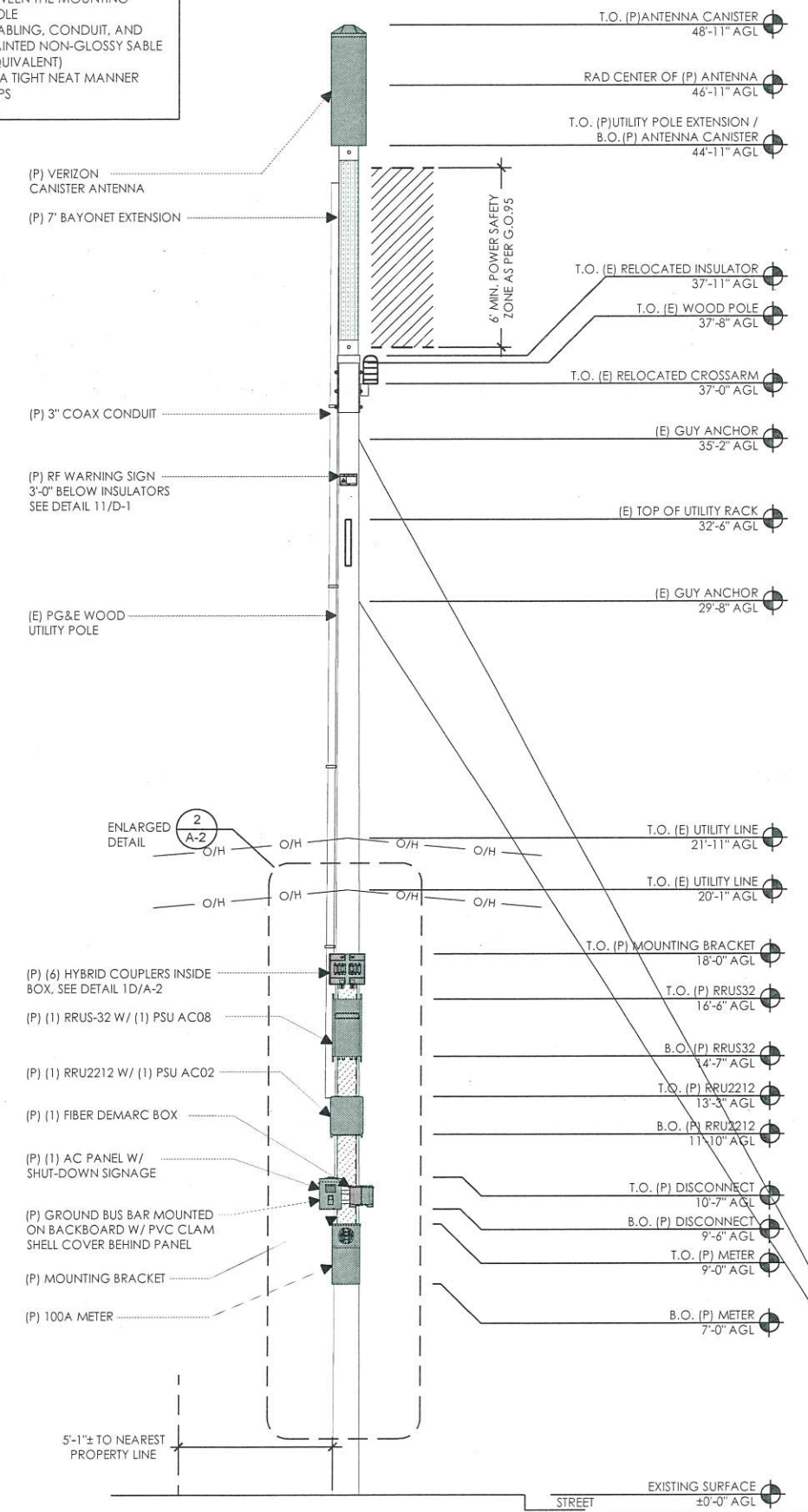
A-3



EXISTING SIDE ELEVATION

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

- NOTES:
1. ALL EQUIPMENT SHALL BE PLACED (VERTICALLY) AS CLOSE AS ALLOWED BY POLE OWNER, WHILE MAINTAINING MINIMUM CLEARANCE REQUIREMENTS.
 2. MAINTAIN 6" MIN. CLEARANCE TO GUY WIRE FROM PROPOSED EQUIPMENT.
 3. MAINTAIN 4" MIN. OFFSET BETWEEN THE MOUNTING BRACKET FLANGE AND THE POLE
 4. ALL ANTENNAS, BRACKETS, CABLING, CONDUIT, AND OTHER EQUIPMENT WILL BE PAINTED NON-GLOSSY SABLE BY SHERWIN WILLIAMS (OR EQUIVALENT)
 5. CABLING TO BE INSTALLED IN A TIGHT NEAT MANNER WITHOUT EXCESS CABLE LOOPS
 6. NO EXISTING CLIMBING PEGS

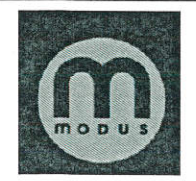


PROPOSED SIDE ELEVATION

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



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 WALNUT CREEK, CA 94598



240 STOCKTON ST., 3RD FLOOR
 SAN FRANCISCO, CA 94108



2930 DOMINGO AVE, SUITE 150
 BERKELEY, CA 94705

DRAWN BY: LM
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REV	DATE	DESCRIPTION
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3	02/28/18	100% CD REV



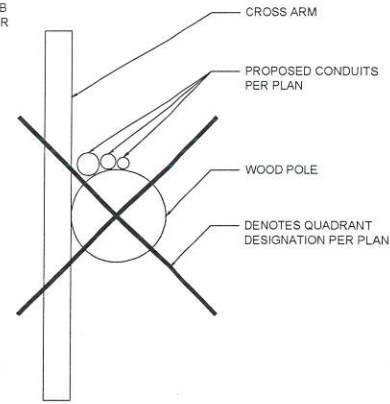
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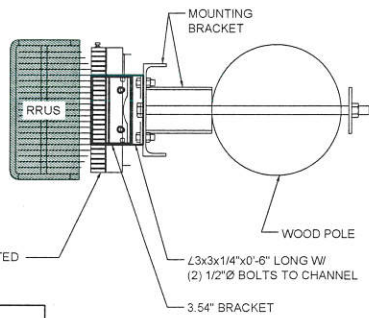
ELEVATIONS

A-4

NOTE:
CONDUITS SHALL IN NO CASE,
CROSS OVER INTO THE CLIMB
SPACE QUADRANT, OR OTHER
QUADRANTS



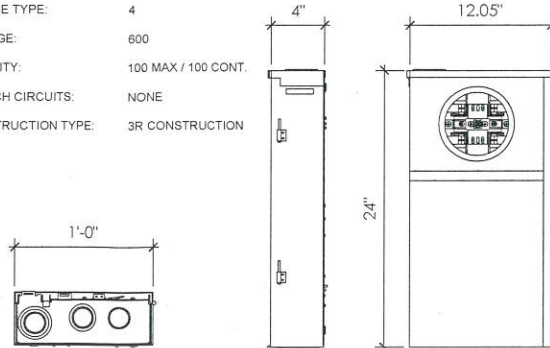
TYPICAL CROSS ARM OBSTRUCTION



NOTE:
APPROVED EQUIVALENT
ALTERNATE MOUNTING BRACKET
MAY BE SUBSTITUTED FOR
BRACKET SHOWN

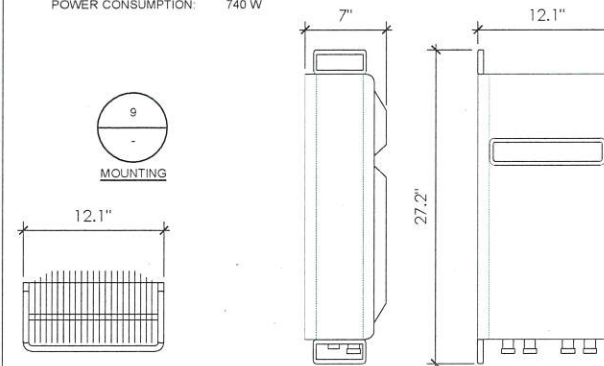
PLAN VIEW

U21MTBL METER MAIN
COLOR: GRAY
DIMENSIONS: 24" TALL x 12.05" WIDE x 4" DEEP
NEUTRAL CONDUCTOR: 14 AWG-2/0 AWG
HUB PROV.: AW
SERVICE TYPE: 4
VOLTAGE: 600
AMPACITY: 100 MAX / 100 CONT.
BRANCH CIRCUITS: NONE
CONSTRUCTION TYPE: 3R CONSTRUCTION



BOTTOM VIEW SIDE VIEW FRONT VIEW

**ERICSSON RRU-32 REMOTE RADIO UNIT
(OR APPROVED EQUIVALENT)**
COLOR: GRAY
DIMENSIONS: 27.2" TALL X 12.1" WIDE X 7.0" DEEP
TOTAL WEIGHT: 80 LBS.
POWER CONSUMPTION: 740 W



TOP VIEW SIDE VIEW FRONT VIEW

TYP CROSS ARM OBSTRUCTION

12 RRUS MOUNTING

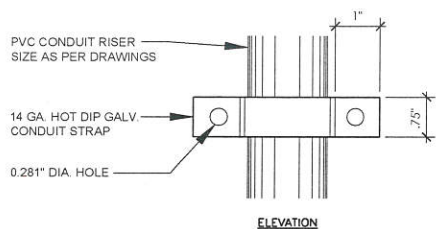
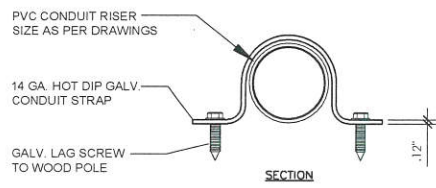
9 ELECTRIC METER

6 ERICSSON RRU-32



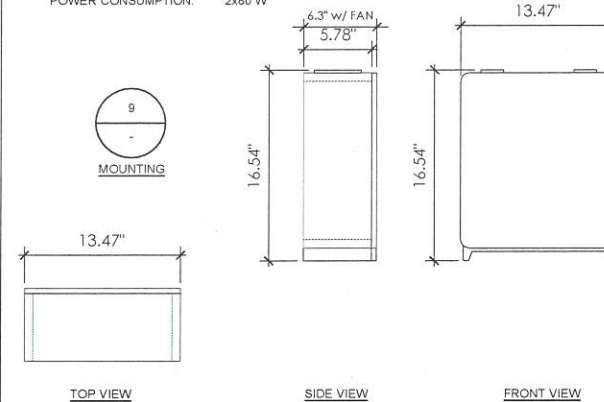
CONTRACTOR TO NOTE
SITE ID / MARKET ID /
SITE NAME

NOTE:
ALUMINUM SUBSTRATE SIGNS PRINTED WITH UV RESISTANT ECO-SOLVENT
INK, REINFORCED WITH UV, CHEMICAL, ABRASION, AND MOISTURE RESISTANT
LAMINATE LAYER.
SUBSTRATE: 0.040" ALUMINUM, WHITE ENAMEL COATED BOTH SIDES
PRINTING LAYER: 4.0 MIL VINYL WITH PERMANENT ACRYLIC ADHESIVE
UV STABLE ECO-SOLVENT INK
LAMINATE: 2.5 MIL, PVC FILM (OPTICALLY CLEAR)
SCRATCH RESISTANT
CHEMICAL RESISTANT
UV RESISTANT
MOUNTING: 0.20" DIAMETER HOLES IN EACH OF 4 CORNER, OFFSET
0.25" FROM ADJACENT EDGE.
SIZE: 12X8, 7X5, 6X3



ELEVATION

**ERICSSON RRU2212 REMOTE RADIO UNIT
(OR APPROVED EQUIVALENT)**
COLOR: GRAY
DIMENSIONS: 16.54" TALL X 13.47" WIDE X 6.3" DEEP
TOTAL WEIGHT: 43 LBS.
POWER CONSUMPTION: 2x80 W



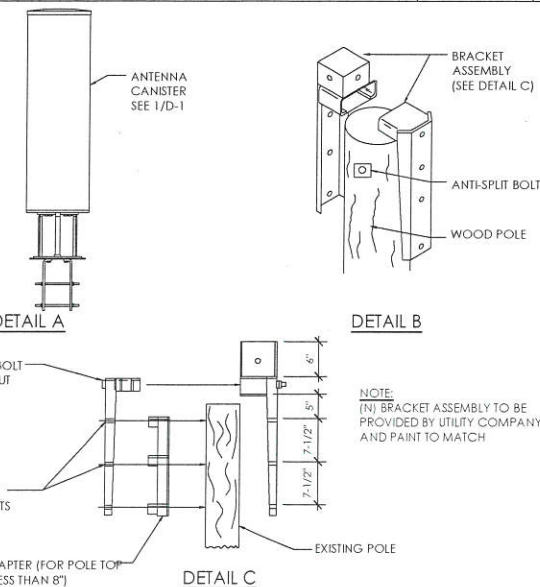
TOP VIEW SIDE VIEW FRONT VIEW

G.O. 95 RF SIGNAGE

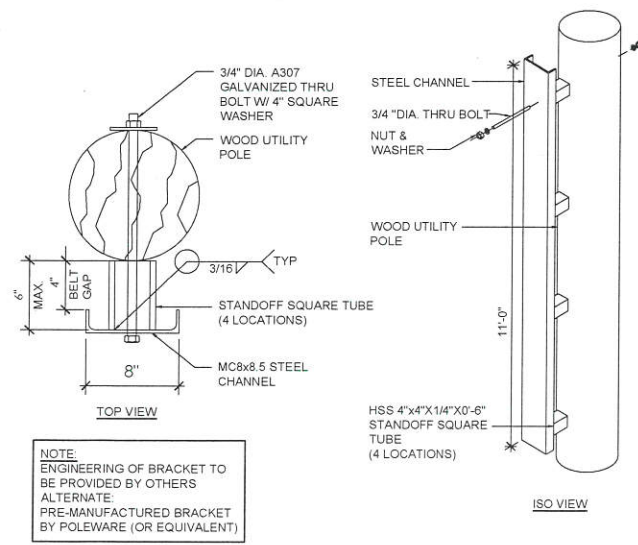
11 CONDUIT BRACKET

8 NOT USED

5 ERICSSON RRU2212



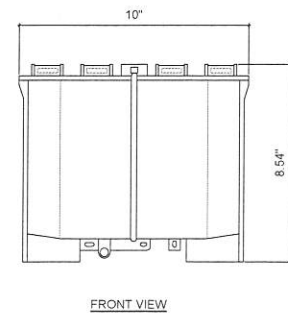
NOTE:
(N) BRACKET ASSEMBLY TO BE
PROVIDED BY UTILITY COMPANY
AND PAINT TO MATCH



NOTE:
ENGINEERING OF BRACKET TO BE
PROVIDED BY OTHERS
ALTERNATE:
PRE-MANUFACTURED BRACKET
BY POLEWARE (OR EQUIVALENT)

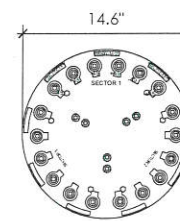
7 MOUNTING BRACKET

**NETWORK INTERFACE DEVICE (NID)
NID-12 (OR APPROVED EQUIVALENT)**
COLOR: GRAY
DIMENSIONS: 8.54" TALL x 10" WIDE x 2.88" DEEP
CAPACITY: 6-PACK DUPLEX SC OR LC; 12 FIBERS



FRONT VIEW

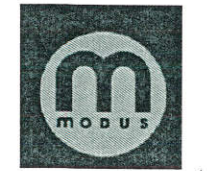
ANTENNA
ANTENNA COLOR: LIGHT GRAY
DIMENSIONS: 1219mm (48")H x 371 mm (14.6")
NET WEIGHT: 19.1kg (42.0 lbs)
WIND LOADING MAX.: 125 mph @ 200km/h
86 lbf @ 160km/h
WIND SPEED MAX.: 200km/h / 125 mph
CONNECTOR: (6) 4.3/10 or 7/16-DIN FEMALE (BOTTOM)



4 ANTENNA

verizon

2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



240 STOCKTON ST., 3RD FLOOR
SAN FRANCISCO, CA 94108

COMSENSE

2930 DOMINGO AVE, SUITE 150
BERKELEY, CA 94705

DRAWN BY: LM
CHECKED BY: JB

REV	DATE	DESCRIPTION
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BAYWOOD PARK 005**
(NEAR) 1175 PARROTT DRIVE
SAN MATEO, CA 94402

DETAILS

D-1

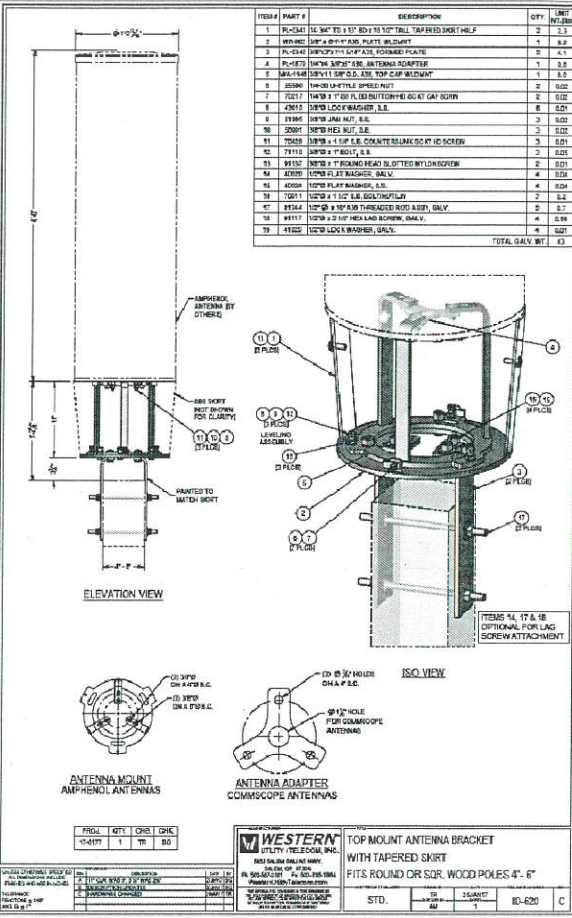
UTILITY POLE TOP EXTENSION

10 MOUNTING BRACKET

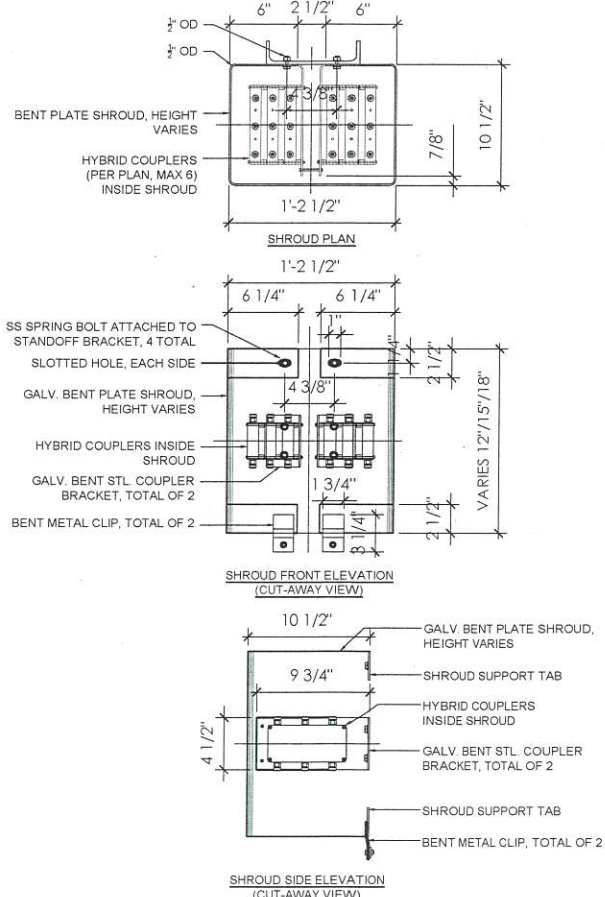
7 FIBER BOX

4 ANTENNA

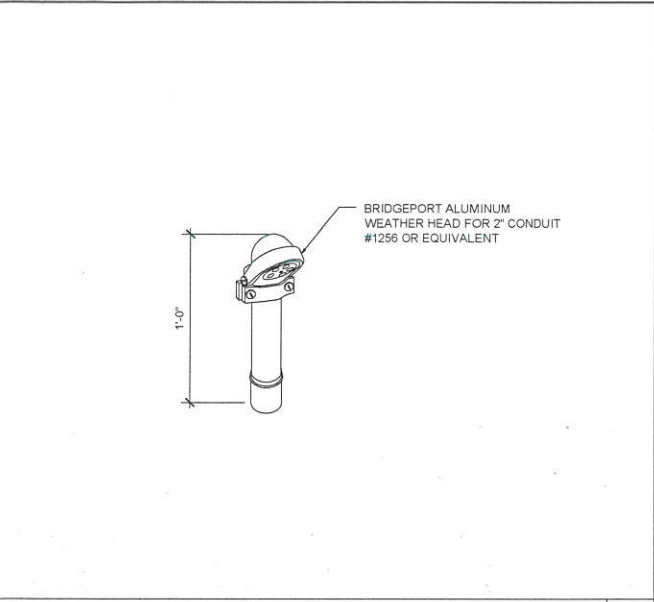
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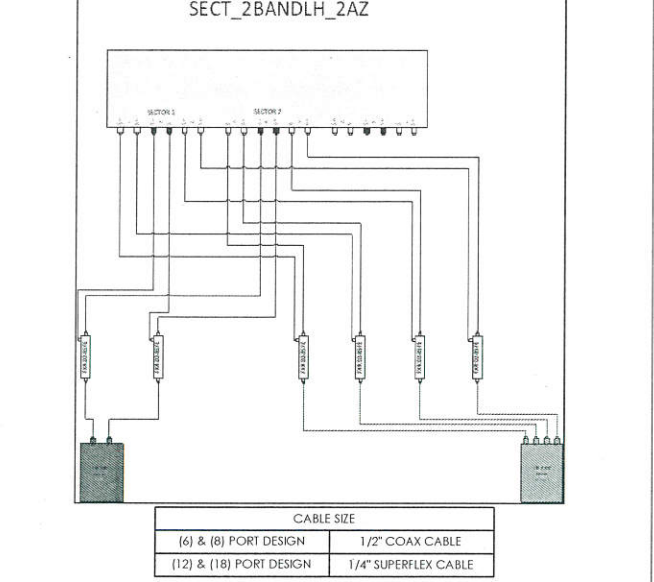
ANTENNA CANISTER 11



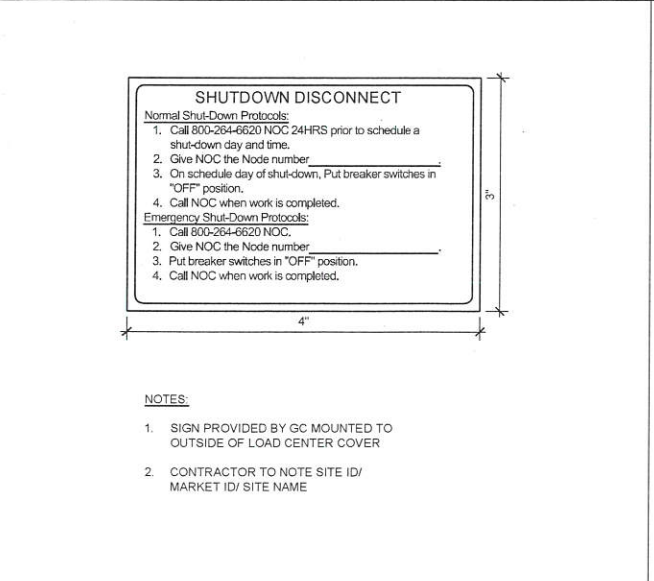
COMBINER SHROUD 10



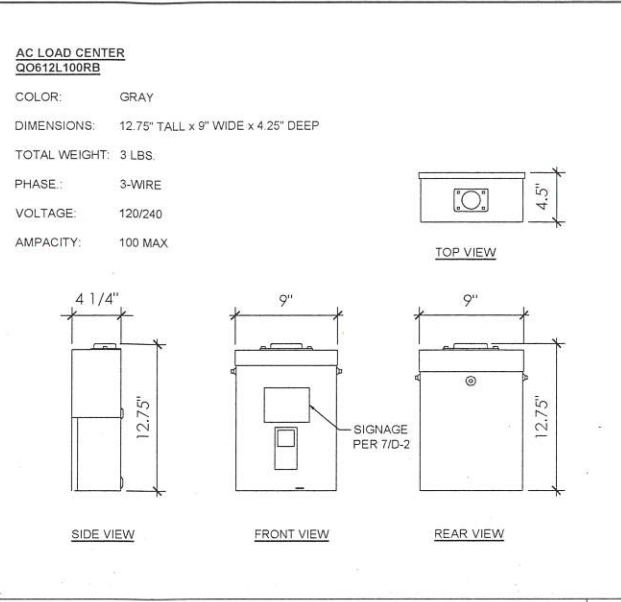
WEATHERHEAD 9



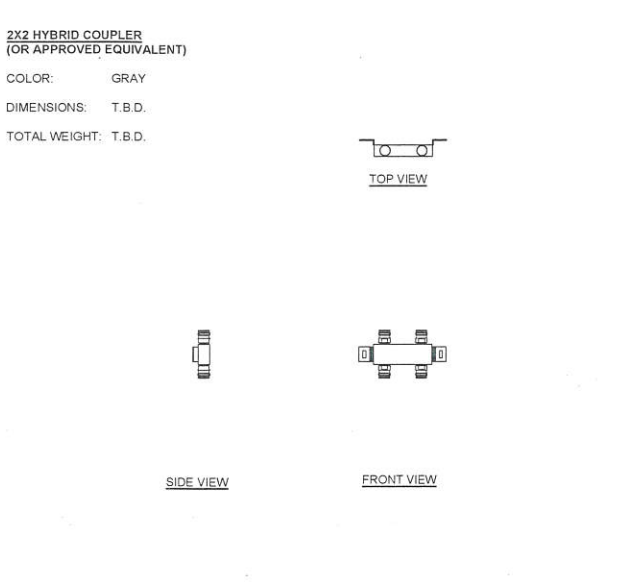
PLUMBING DIAGRAM 8



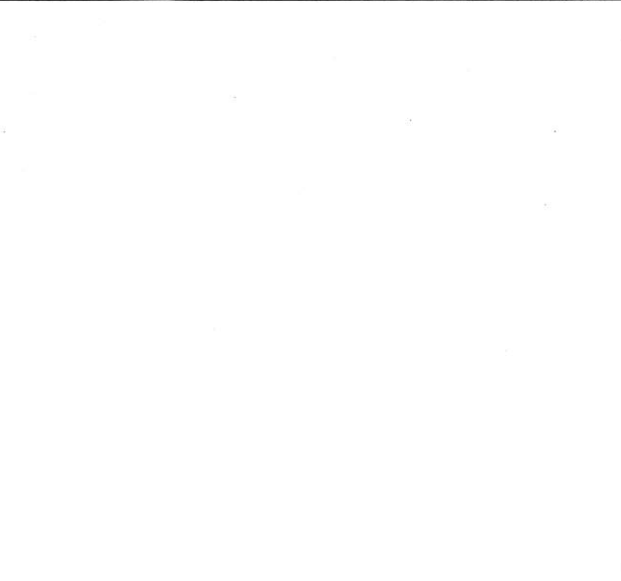
LOAD CENTER SHUT-DOWN SIGNAGE 7



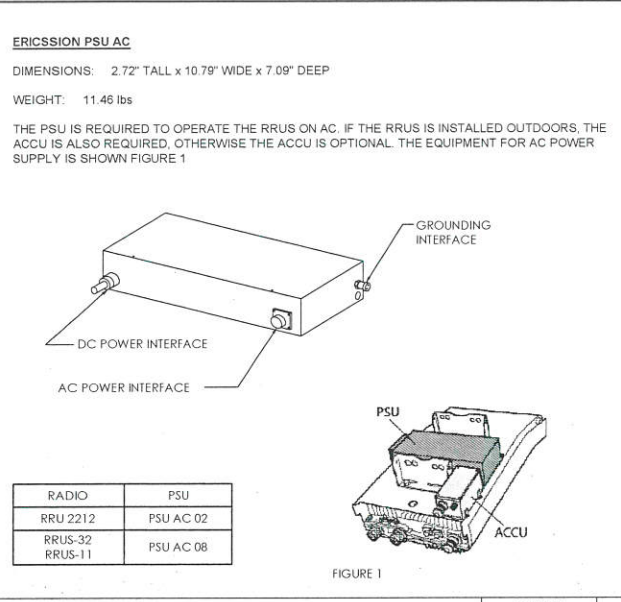
AC LOAD CENTER 6



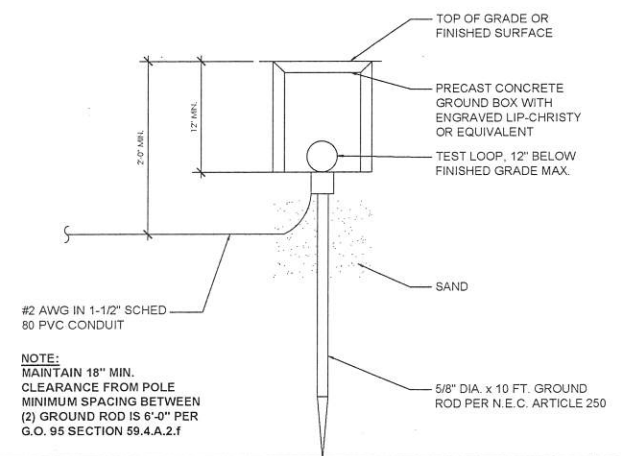
HYBRID COUPLER 5



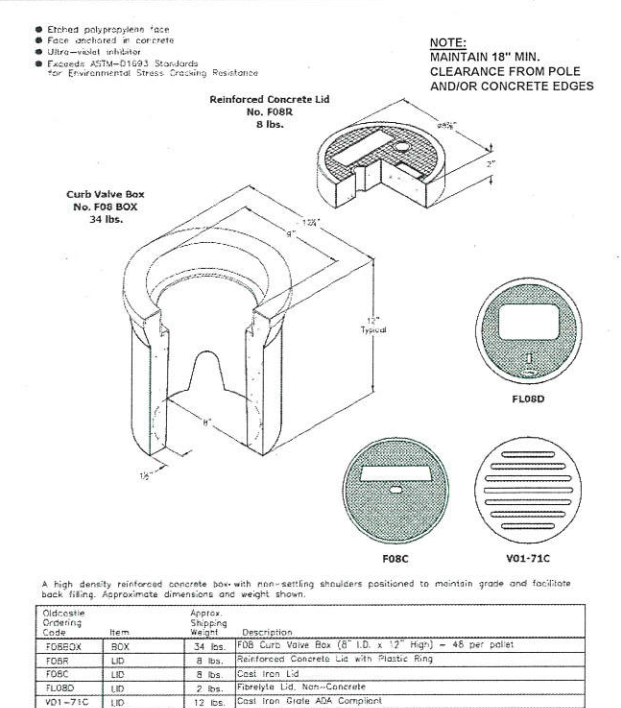
NOT USED 4



POWER SUPPLY UNIT (PSU) 3



GROUND ROD ENCLOSURE 1



GROUND ROD ENCLOSURE 1

verizon

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modus

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SAN FRANCISCO, CA 94108

COMMSENSE

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Professional Engineer Seal: AIA, No. 064533, State of California

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SF HIGHLANDS
BAYWOOD PARK 005
(NEAR) 1175 PARROTT DRIVE
SAN MATEO, CA 94402

DETAILS

D-2

A	AMPERE	ELEC	ELECTRICAL	MFR	MANUFACTURER	SAF	SAFETY
ACCA	ANTENNA CABLE COVER ASSEMBLY	EMT	ELECTRICAL METALLIC TUBING	MIN	MINIMUM	SDBC	SOFT DRAWN BARE COPPER
AIC	AMPERE INTERRUPTING CAPACITY	ENCL	ENCLOSURE	MLO	MAIN LUGS ONLY	SEC	SECONDARY
APPROX	APPROXIMATELY	EXIST	EXISTING	MTD	MOUNTED	S.N.	SOLID NEUTRAL
AT	AMPERE TRIP	FAC	FACTOR	MTG	MOUNTING	SURF	SURFACE
AWG	AMERICAN WIRE GAGE	F/A	FIRE ALARM	M/S	MANUAL TRANSFER SWITCH	SW	SWITCH
BATT	BATTERY	FLUOR	FLUORESCENT	N	NEUTRAL	TEL	TELEPHONE
BD	BOARD	FT	FOOT/FEET	INI	NEW	TYP	TYPICAL
BR	BRANCH	FU	FUSE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	U/G	UNDERGROUND
BRKR	BREAKER	G	GROUND	U.L.	UNDERWRITER'S LABORATORY INC.		
BT	BARE TINNED COPPER WIRE	GEN	GENERATOR	OH	OVERHEAD		
BTS	BASE TRANSMISSION SYSTEM	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	P	POLE	U.N.O.	UNLESS NOTED OTHERWISE
C	CONDUIT	PCS	PERSONAL COMMUNICATION SYSTEM	V	VOLT		
CAB	CABINET	GPS	GLOBAL POSITIONING SYSTEM	W	WATT OR WIRE		
CB	CIRCUIT BREAKER	GR	GROWTH	W/O	WITHOUT		
CKT	CIRCUIT	H0BC	HARD DRAWN COPPER WIRE	PNLBD	PANELBOARD		
CONT	CONTINUOUS	HPS	HIGH PRESSURE SODIUM	PPC	POWER PROTECTION CABINET		
DEM	DEMAND	LG	LENGTH	PRC	PRIMARY RADIO CABINET	XFER	TRANSFER
IEI	EXISTING	LPS	LOW PRESSURE SODIUM	PRI	PRIMARY	XFMR	TRANSFORMER
EGR	EMERGENCY GEN. RECEPTACLE	MAX	MAXIMUM	PWR	POWER	XLPE	CROSS-LINK POLYETHYLENE
		MECH	MECHANICAL	RCPT	RECEPTACLE		
				RGS	RIGID GALVANIZED STEEL		

GENERAL ABBREVIATIONS

3

OHT/OHP	OVERHEAD TELEPHONE/OVERHEAD POWER		LIGHTING FIXTURE, 1/175W, METAL HALIDE, HUBBELL CAT #MIC-0175H-336
OHT	OVERHEAD TELEPHONE LINE		5/8" X 10'-0", CU, GND ROD 24" MIN, BELOW GRADE.
OHP	OVERHEAD POWER LINE		5/8" X 10'-0", CU, GND ROD IN TEST WELL 24" MIN, BELOW GRADE.
E	POWER RUN		CHEMICAL GROUND ROD (XIT GROUND ROD)
T	TELCO RUN		CADWELDED CONNECTION
E/T	POWER/TELCO RUN		MECHANICAL CONNECTION
	GROUNDING CONDUCTOR		HALO GROUND CONNECTION
	FUSE, SIZE AND TYPE AS INDICATED.		CIRCUIT BREAKER
	SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H2224NRB		UTILITY METER BASE
	MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE		RECEPTACLE, 2P-3W-125V-15A, DUPLEX, GROUND TYPE, HUBBEL CATALOG #5362
	LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1		TOGGLE SWITCH, 1P-120V-15A, HUBBELL CATALOG #HBL 1201CN
			TOGGLE SWITCH, 1P-120V-15A, "WP"

1. GENERAL REQUIREMENTS

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT
- THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
- THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.
- THE CONTRACTOR SHALL PREPARE A BID FOR A COMPLETE AND OPERATIONAL SYSTEM, WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.
- WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION. DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ENGINEER.
- COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT.
- ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.
- "PROVIDE" INDICATES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.
- CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.

2. EQUIPMENT LOCATION

- ALL DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATIONS OR ARRANGEMENTS OF CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.
- IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST, PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO THE SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- COORDINATE THE WORK OF THE SECTION WITH THAT OF ALL OTHER TRADES, WHERE CONFLICTS OCCUR, CONSULT WITH THE PERSPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY. OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER FOR THE PROPOSED CHANGES BEFORE PROCEEDING.

3. TESTS

- BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL INSURE THAT ALL EQUIPMENT, SYSTEMS, FIXTURES, ETC., ARE WORKING SATISFACTORILY AND TO THE INTENT OF THE DRAWINGS.

4. PERMITS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING OUT AND PAYING FOR ALL THE REQUIRED PERMITS, INSPECTION AND EXAMINATION WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

5. GROUNDING

- THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF NATIONAL ELECTRICAL CODE.
- CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
- FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.
- REFER TO GROUND BUS DETAILS. PROVIDE NEW GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.
- ALL GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
- ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED, THHN (GREEN) INSULATION.
- ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
- PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
- GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO VERIZON ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

6. UTILITY SERVICE

- TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS. SERVICE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITIES.
- CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

7. PRODUCTS

- ALL MATERIALS SHALL BE NEW, CONFORMING WITH THE NEC, ANSL NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 - ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
 - ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.
- ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.
- PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.
- TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.
- PANELBOARD SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-MAKE QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARD AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORY.
- ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
- GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG, COPPERWELD OR APPROVED EQUAL.
- SERVICE POWER SHALL BE 100A 1Ø, 3W, 120/208 OR 120/240V.
- ALL WIRING SHALL BE COPPER 75° C U.N.O.
- CONDUIT REQUIREMENTS (TYP., U.N.O.): UNDERGROUND: PVC (SCHED 40 OR 80), INDOOR: EMT (RGS IN TRAFFIC AREAS, OUTDOOR (ABOVE GRADE): RGS.
- PLACE "TRUE TAPE" AND PULL ROPE IN THE CONDUITS AS REQUIRED.

8. INSTALLATION

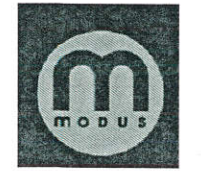
- PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC., EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.

9. PROJECT CLOSEOUT

- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.



2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



240 STOCKTON ST., 3RD FLOOR
SAN FRANCISCO, CA 94108



2930 DOMINGO AVE, SUITE 150
BERKELEY, CA 94705

DRAWN BY: LM
CHECKED BY: JB

REV	DATE	DESCRIPTION
0	10/05/17	90% CD
1	10/25/17	95% CD
2	12/20/17	100% CD
3	02/28/18	100% CD REV



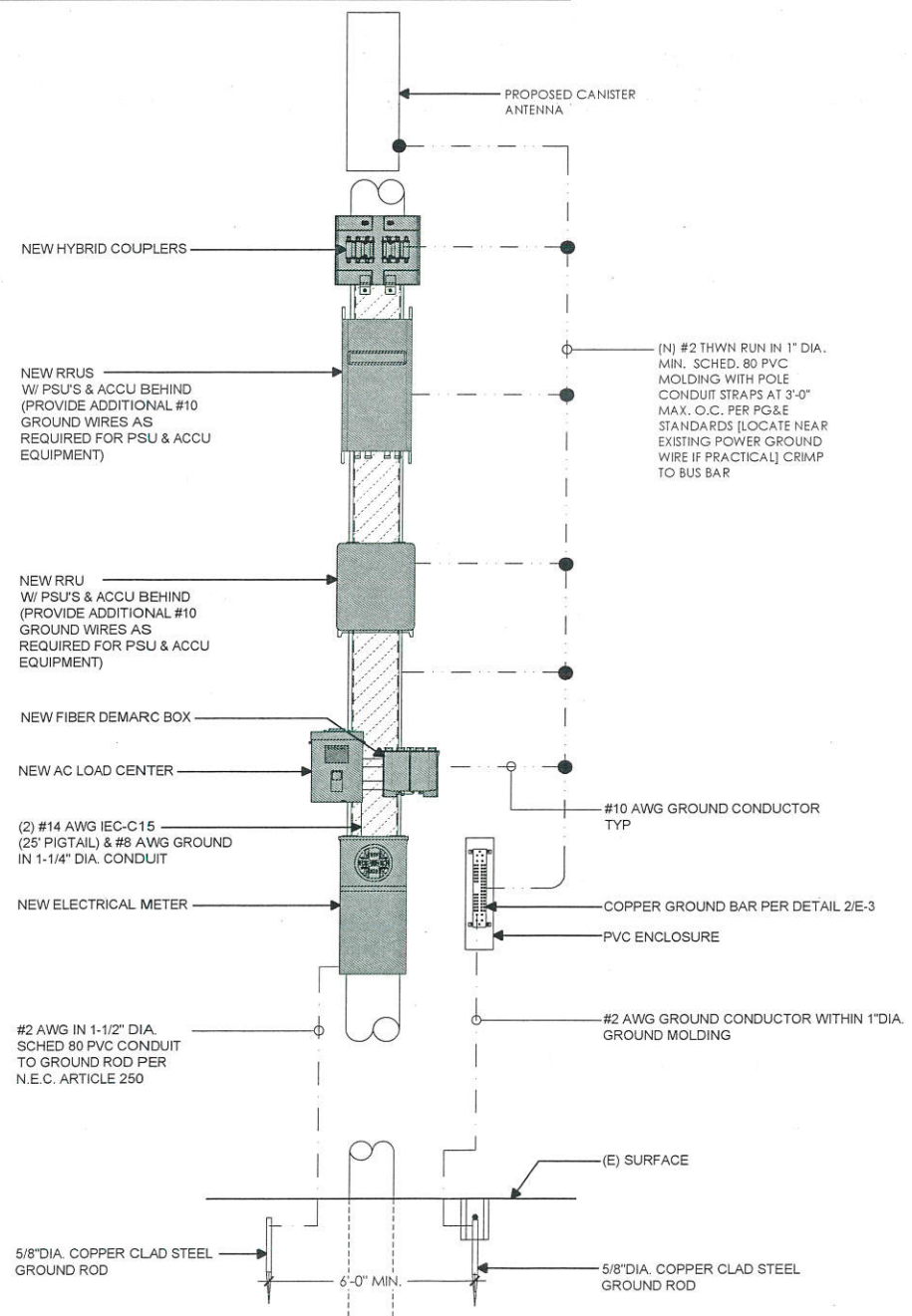
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(NEAR) 1175 PARROTT DRIVE
SAN MATEO, CA 94402

ELECTRICAL
GENERAL NOTES

E-1

NOTES:
 1. **GROUND ROD:** UL LISTED COPPER CLAD STEEL. MINIMUM 5/8" DIAMETER x 10'-0" LONG. ALL GROUND RODS MAY BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.
 2. **CELL REFERENCE GROUND BAR:** POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUCTORS.
 3. **EXTERIOR UNIT BONDS:** METALLIC OBJECTS SHALL BE BONDED TO THE EXTERIOR GROUND RING.
 4. PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
 5. UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, SIDAUAL ELEMENT FUSES SIZED TO EQUIPMENT NAMEPLATE FUSE CURRENT RATING. MOTOR STARTERS SHALL BE PROVIDED WITH SIMILARLY SIZED FUSIBLE ELEMENTS, SWITCHES, AND OTHER OUTDOOR EQUIPMENT SHALL BE RATED NEMA 3R AND/OR UL LISTED FOR WET ENVIRONMENT.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GROUNDING SYSTEM AND ENSURING A .5 OHM OR LESS GROUNDING PATH. ADDITIONAL GROUND RODS AND/OR CHEMICAL ROD SYSTEM SHALL BE USED TO ACHIEVE THIS REQUIREMENT IF THE GIVEN DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.



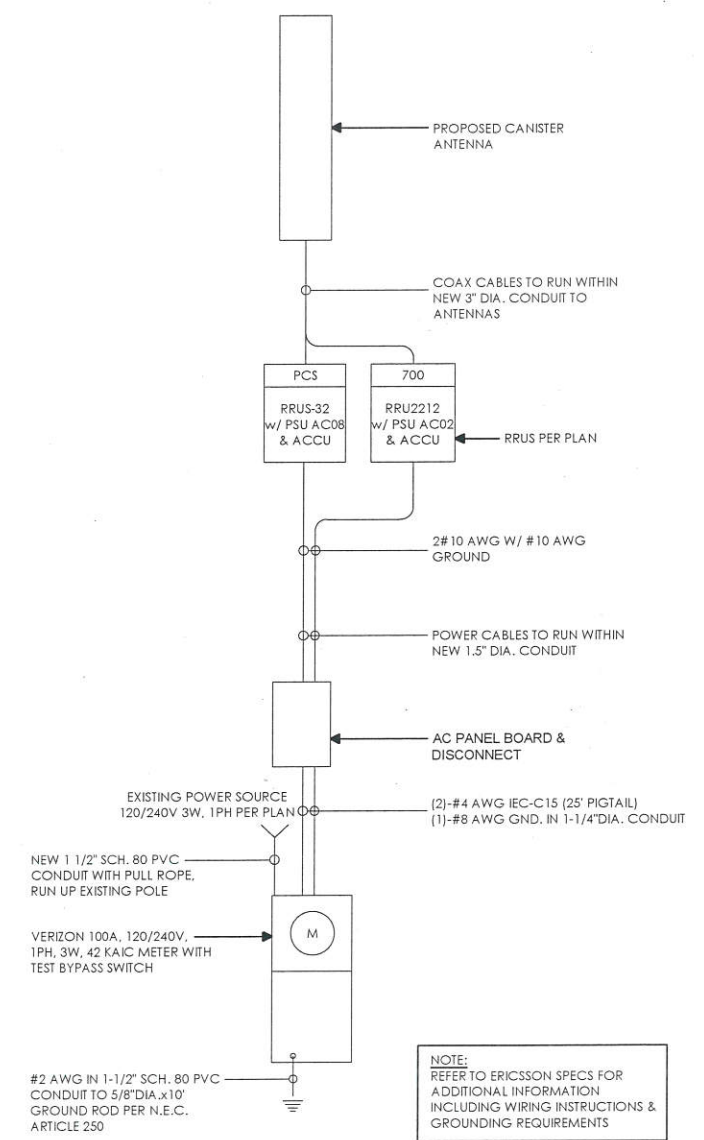
GROUNDING SCHEMATIC

SCALE
NTS

2

ONE-LINE DIAGRAM

MOUNTING SURFACE		PANEL		"PPC A"		10,000		A.I.C. SYM		
240/120		VOLTS		1 PHASE		3 WIRE		MAIN 100A		
								BUS 100A		
VOLT AMPS		OTHER		REC	LTG	POLE	BKR	CIR	VOLT AMPS	
PHASE A	PHASE B								PHASE A	PHASE B
200		RRUS-11				1	30	1		
	800	RRUS-32				1	20	3		
		SPARE				1	15	5		
		SPARE				1	20	7		
								9		
								11		
200	800									
PHASE A = 200					PHASE B = 800					
CONTINUOUS LOADS					NON-CONTINUOUS LOADS					
1000	x1.25 =	1250	RECEPTACLES	UP TO 10KVA	-	x1.00 =	-	OTHER =	-	x1.00 =
			REMAINDER	-	-	x1.00 =	-			
TOTAL DESIGN KW = 1.25					TOTAL DESIGN AMPS = 5.2					



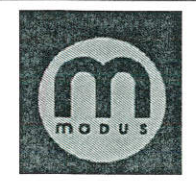
NOTE:
REFER TO ERICSSON SPECS FOR ADDITIONAL INFORMATION INCLUDING WIRING INSTRUCTIONS & GROUNDING REQUIREMENTS

SCALE
NTS

1



2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



240 STOCKTON ST., 3RD FLOOR
SAN FRANCISCO, CA 94108



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BERKELEY, CA 94705

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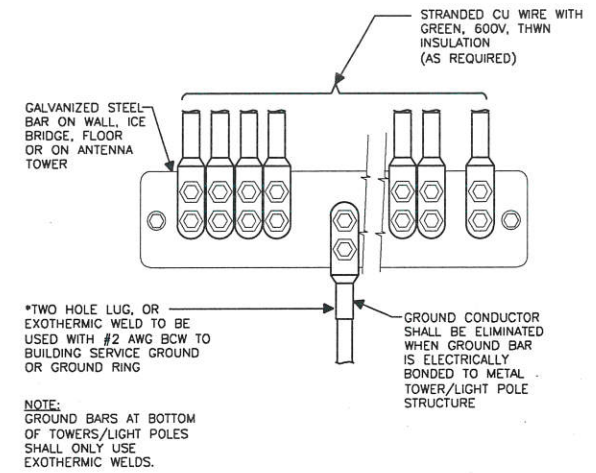


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 SAN MATEO, CA 94402

ONE-LINE DIAGRAM &
GROUNDING DETAILS

E-2

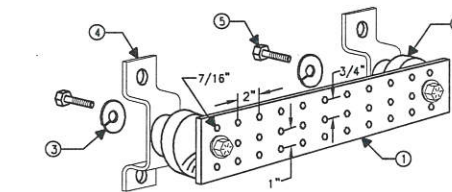
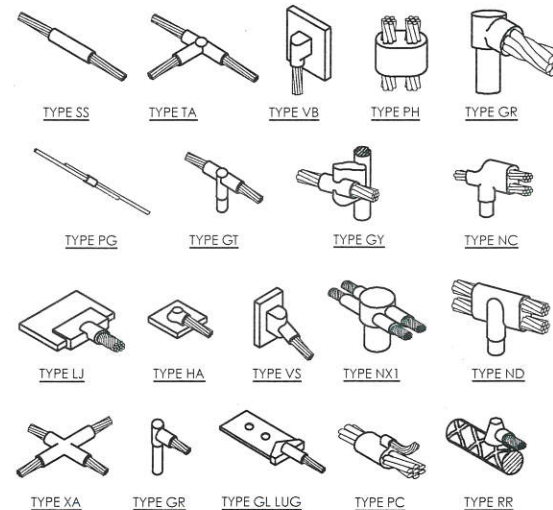


NOT USED

9 NOT USED

6 GROUND WIRE TO BAR

3



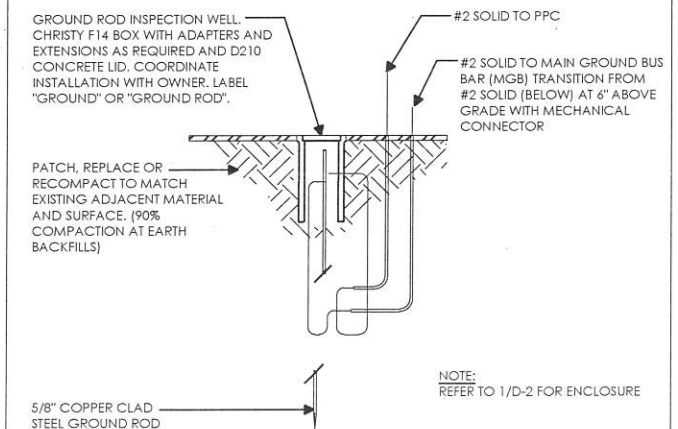
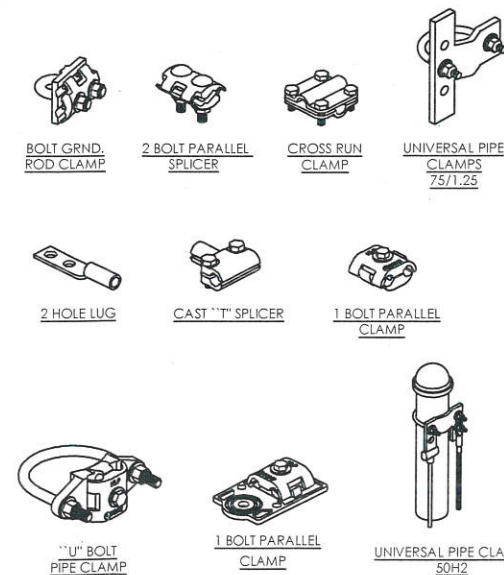
- NOTES:
1. COPPER GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
 2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
 3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 OR APPROVED EQUAL
 4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6056 OR APPROVED EQUAL
 5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL
 6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.
 7. VALMONT TINMG212U-K (OR EQUIVALENT) 1/4"X2"X12"

NOT USED

8 EXOTHERMIC WELD CONNECTION

5 GROUND BAR

2



NOT USED

10 NOT USED

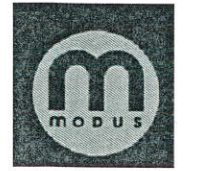
7 MECHANICAL CONNECTION

4 GROUND TEST WELL

1

verizon

2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



240 STOCKTON ST., 3RD FLOOR
SAN FRANCISCO, CA 94108

COMSENSE

2930 DOMINGO AVE, SUITE 150
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BAYWOOD PARK 005

(NEAR) 1175 PARROTT DRIVE
SAN MATEO, CA 94402

ELECTRICAL DETAILS

E-3



Existing



proposed antenna

Proposed

PLN2018-U0079




Existing



proposed antenna

Proposed





This area has limited number of poles making the site selected the best option in the RF desired coverage area

PG&E Wood Pole: Insufficient space on pole for equipment and installation

PG&E Wood Pole: Pole is not viable because of antenna and limited space

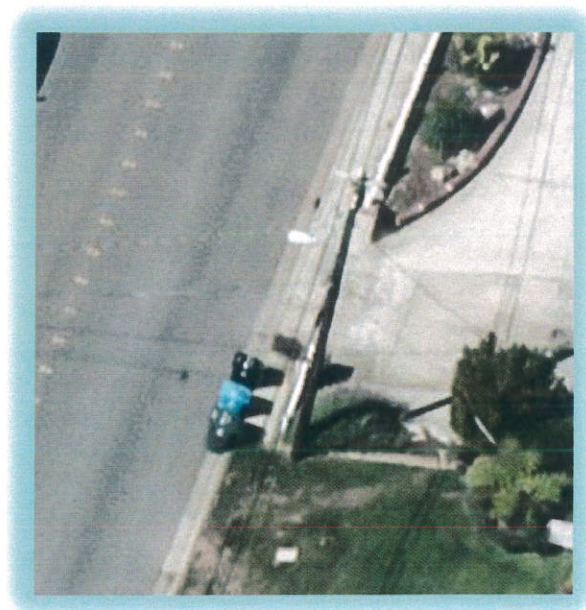
Site Selected

PG&E Wood Pole: Pole is viable but site selected is better option because pole has more space and will be an easier installation

Radio Frequency - Electromagnetic Energy (RF-EME) Jurisdictional Report

Site No. 483409
SF Highlands Baywood Park 005
1175 Parrott Drive
San Mateo, California 94402
San Mateo County
37° 32' 17.42" N, -122° 20' 44.37" W NAD83

EBI Project No. 6218000845
February 15, 2018



Prepared for:
Verizon Wireless
c/o Modus, Inc.
115 Sansome Street, 14th Floor
San Francisco, CA 94104

Prepared by:



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San Mateo County
Planning Division

PLN2018-00079

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2.0 SITE DESCRIPTION	2
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5.0 MITIGATION/SITE CONTROL OPTIONS	6
6.0 SUMMARY AND CONCLUSIONS	6
7.0 LIMITATIONS	6

APPENDICES

- APPENDIX A CERTIFICATIONS**
- APPENDIX B RADIO FREQUENCY ELECTROMAGNETIC ENERGY SAFETY / SIGNAGE PLANS**
- APPENDIX C ROOFVIEW® EXPORT FILES**

EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by Verizon Wireless to conduct radio frequency electromagnetic (RF-EME) modeling for Verizon Site 483409 located at 1175 Parrott Drive in San Mateo, California to determine RF-EME exposure levels from proposed Verizon wireless communications equipment at this site. As described in greater detail in Section 2.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

As presented in the sections below, based on worst-case predictive modeling, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site. Additionally, there are areas where workers who may be elevated above the ground may be exposed to power densities greater than the occupational limits. Therefore, workers should be informed about the presence and locations of antennas and their associated fields.

At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately **10.30** percent of the FCC's general public limit (**2.06** percent of the FCC's occupational limit).

Recommended control measures are outlined in Section 5.0 and within a Site Safety Plan (attached); this plan includes instructions to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol.

1.0 INTRODUCTION

Radio frequency waves are electromagnetic waves from the portion of the electromagnetic spectrum at frequencies lower than visible light and microwaves. The wavelengths of radio waves range from thousands of meters to around 30 centimeters. These wavelengths correspond to frequencies as low as 3 cycles per seconds (or hertz [Hz]) to as high as one gigahertz (one billion cycles per second).

Personal Communication (PCS) facilities used by Verizon in this area operate within a frequency range of 700-2100 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed a distance above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of in areas in the immediate vicinity of the antennas.

MPE limits do not represent levels where a health risk exists, since they are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size or health.

2.0 SITE DESCRIPTION

This project site includes one (1) wireless telecommunication antenna on a utility pole located at 1175 Parrott Drive in San Mateo, California.

Verizon Antenna Information (proposed Configuration)									
Antenna # and Model	Frequency (MHz)	# of Transmitters	Transmit Power (Watts)	Azimuth	Gain (dBd)	Feet above Ground (CL)	X	Y	Z (feet)
A1 Amphenol CUUT070X12Fxyz0	700	2	60	35°	10.35	46.92	30	30	44.92
	2100	2	60	155°	14.05				

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general population/uncontrolled exposure limits for members of the general public that may be exposed to antenna fields. While access to this site is considered uncontrolled, the analysis has considered exposures with respect to both controlled and uncontrolled limits as an untrained worker may access adjacent rooftop locations. Additional information regarding controlled/uncontrolled exposure limits is provided in Section 3.0. Appendix B presents a site safety plan that provides a plan view of the utility pole with antenna locations.

3.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc.

(IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General public/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Table I and Figure I (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm²). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm²) and an uncontrolled MPE of 1 mW/cm² for equipment operating in the 1900 MHz frequency range. For the Verizon equipment operating at 700 MHz or 850 MHz, the FCC's occupational MPE is 2.83 mW/cm² and an uncontrolled MPE of 0.57 mW/cm². These limits are considered protective of these populations.

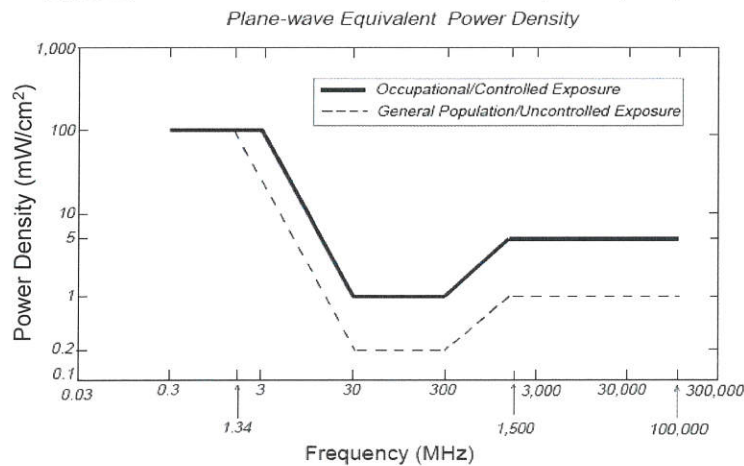
Table I: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

* Plane-wave equivalent power density

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)



Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Cellular Telephone	870 MHz	2.90 mW/cm ²	0.58 mW/cm ²
Specialized Mobile Radio	855 MHz	2.85 mW/cm ²	0.57 mW/cm ²
Most Restrictive Freq. Range	30-300 MHz	1.00 mW/cm ²	0.20 mW/cm ²

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by Verizon in this area operate within a frequency range of 700-2100 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for

exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

4.0 WORST-CASE PREDICTIVE MODELING

EBI has performed theoretical modeling using RoofView® software to estimate the worst-case power density at the site ground-level and nearby rooftops resulting from operation of the antennas. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

The modeling is based on worst-case assumptions for the number of antennas and transmitter power. The modeling assumes a maximum 4 radio configuration for Sector A with a power level of 48 dBm (60 watts) per transmitter for 700 and 2100 frequencies, in order to provide a worst-case evaluation of predicted MPE levels. The assumptions used in the modeling are based upon information provided by Verizon, and information gathered from other sources. The parameters used for the modeling are summarized in the RoofView® export files presented in Appendix C.

There are no other wireless carriers with equipment installed at this site.

Based on worst-case predictive modeling, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed Verizon antennas that exceed the FCC's occupational or general public exposure limits at this site. At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately 10.30 percent of the FCC's general public limit (2.06 percent of the FCC's occupational limit).

The Site Safety Plan also presents areas where Verizon Wireless antennas contribute greater than 5% of the applicable MPE limit for a site. A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix C. A graphical representation of the RoofView® modeling results is presented in Appendix B. It should be noted that RoofView is not suitable for modeling microwave dish antennas; however, these units are designed for point-to-point operations at the elevations of the installed equipment rather than ground level coverage.

5.0 MITIGATION/SITE CONTROL OPTIONS

EBI's modeling indicates that there are no areas in front of the Verizon antennas that exceed the FCC standards for occupational or general public exposure. All exposures above the FCC's safe limits require that individuals be elevated above the ground. In order to alert people accessing the pole, a Caution sign is recommended for installation approximately 12 feet below the antenna facing the street.

There are no barriers recommended on this site.

These protocols and recommended control measures have been summarized and included with a graphic representation of the antennas and associated signage and control areas in a RF-EME Site Safety Plan, which is included as Appendix B. Individuals and workers accessing the roof should be provided with a copy of the attached Site Safety Plan, made aware of the posted signage, and signify their understanding of the Site Safety Plan.

Implementation of the signage recommended in the Site Safety Plan and in this report will bring this site into compliance with the FCC's rules and regulations.

6.0 SUMMARY AND CONCLUSIONS

EBI has prepared a Radiofrequency – Electromagnetic Energy (RF-EME) Compliance Report for telecommunications equipment installed by Verizon Site Number 483409 located at 1175 Parrott Drive in San Mateo, California to determine worst-case predicted RF-EME exposure levels from wireless communications equipment installed at this site. This report summarizes the results of RF-EME modeling in relation to relevant Federal Communications Commission (FCC) RF-EME compliance standards for limiting human exposure to RF-EME fields.

As presented in the sections above, based on the FCC criteria, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site. Workers should be informed about the presence and locations of antennas and their associated fields. Recommended control measures are outlined in Section 5.0 and within a Site Safety Plan (attached); this plan includes procedures to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol.

7.0 LIMITATIONS

This report was prepared for the use of Verizon Wireless. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

Appendix A

Certifications

Reviewed and Approved by:



sealed 16feb2018


Michael McGuire
Electrical Engineer

Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the structure, as well as the impact of the antennas and broadcast equipment on the structural integrity of the structure, are specifically excluded from EBI's scope of work.

Preparer Certification

I, Andrew Simpson, state that:




- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified "occupational" under the FCC regulations.
- I 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.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.



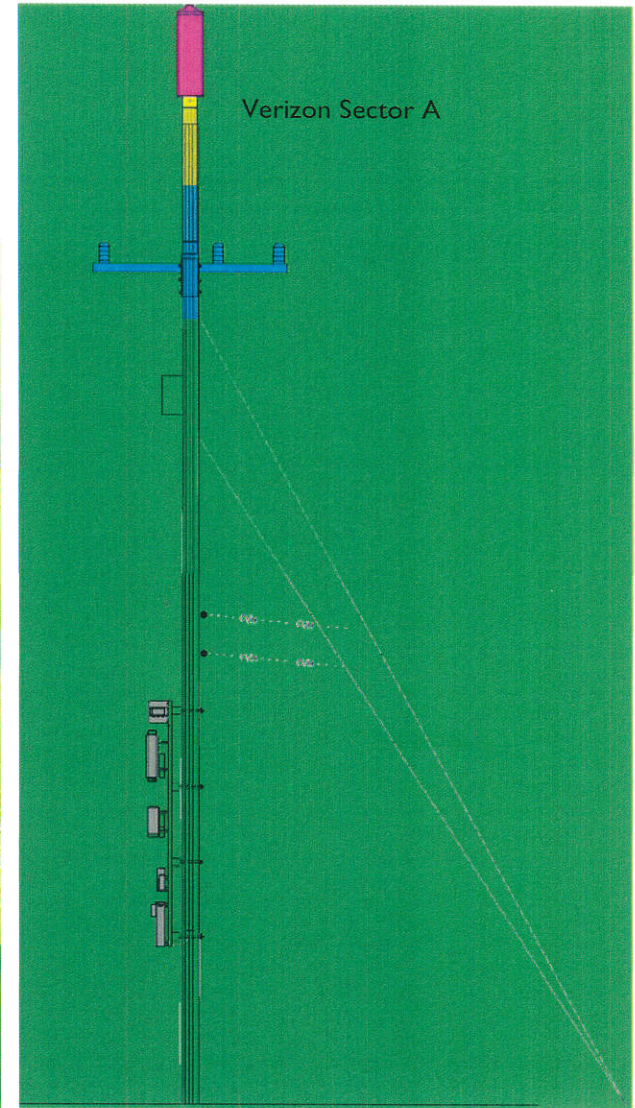
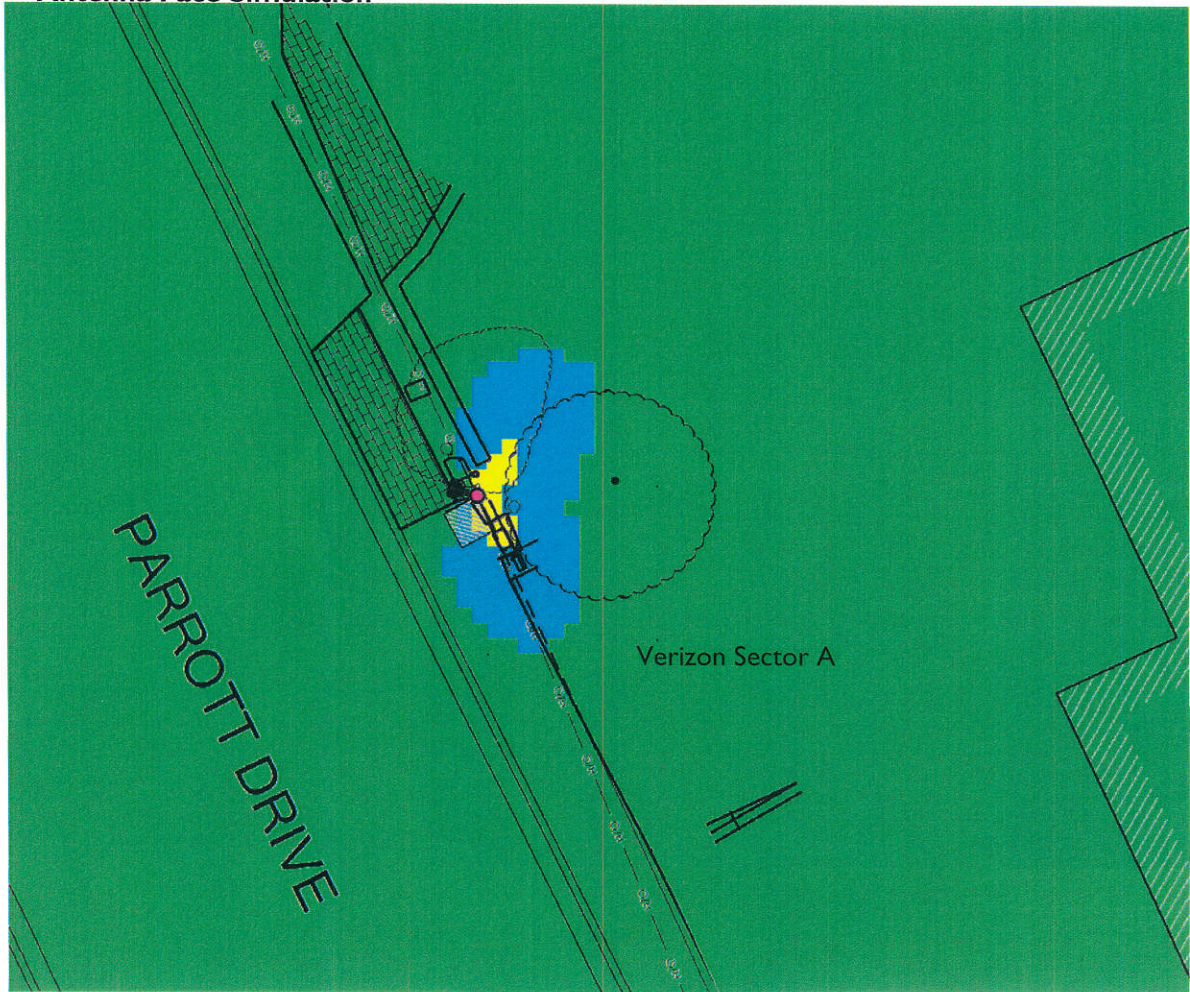
Andrew Simpson

Appendix B
Radio Frequency Electromagnetic Energy
Safety / Signage Plans

% FCC Public Exposure Limit

	Exposure Level $\geq 5,000$
	$500 < \text{Exposure Level} \leq 5,000$
	$100 < \text{Exposure Level} \leq 500$
	Exposure Level ≤ 100

***Antenna Face Simulation**



Roofview: Composite Exposure Levels

Facility Operator: Verizon Wireless

Site Name: SF Highlands Baywood Park 005

Verizon Site Number: 483409

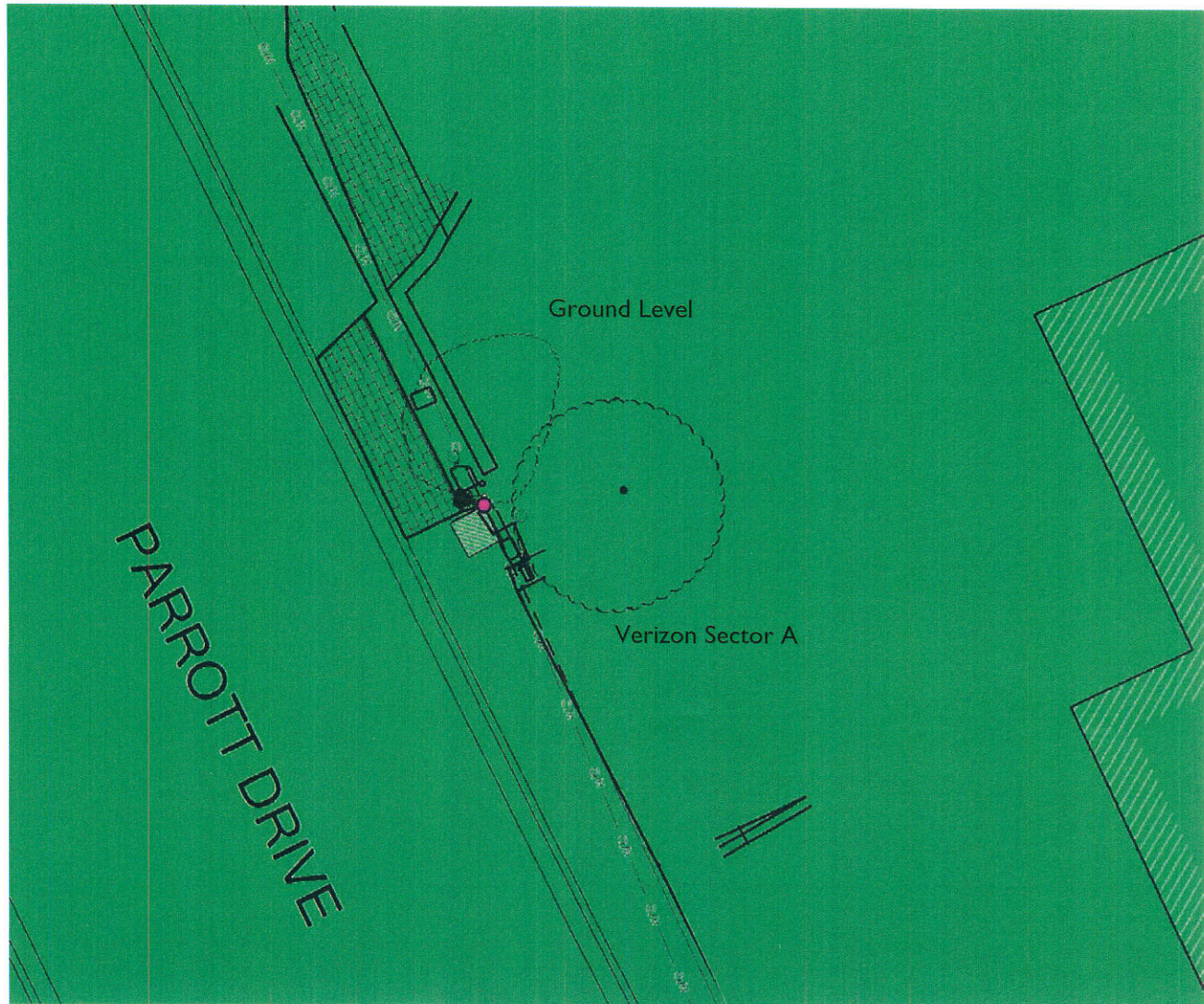
Report Date: 02-15-18

 Verizon Antennas

% FCC Public Exposure Limit

-  Exposure Level > 5
-  Exposure Level ≤ 5

***Ground Level Simulation**



Roofview: Verizon Exposure Levels

Facility Operator: Verizon Wireless

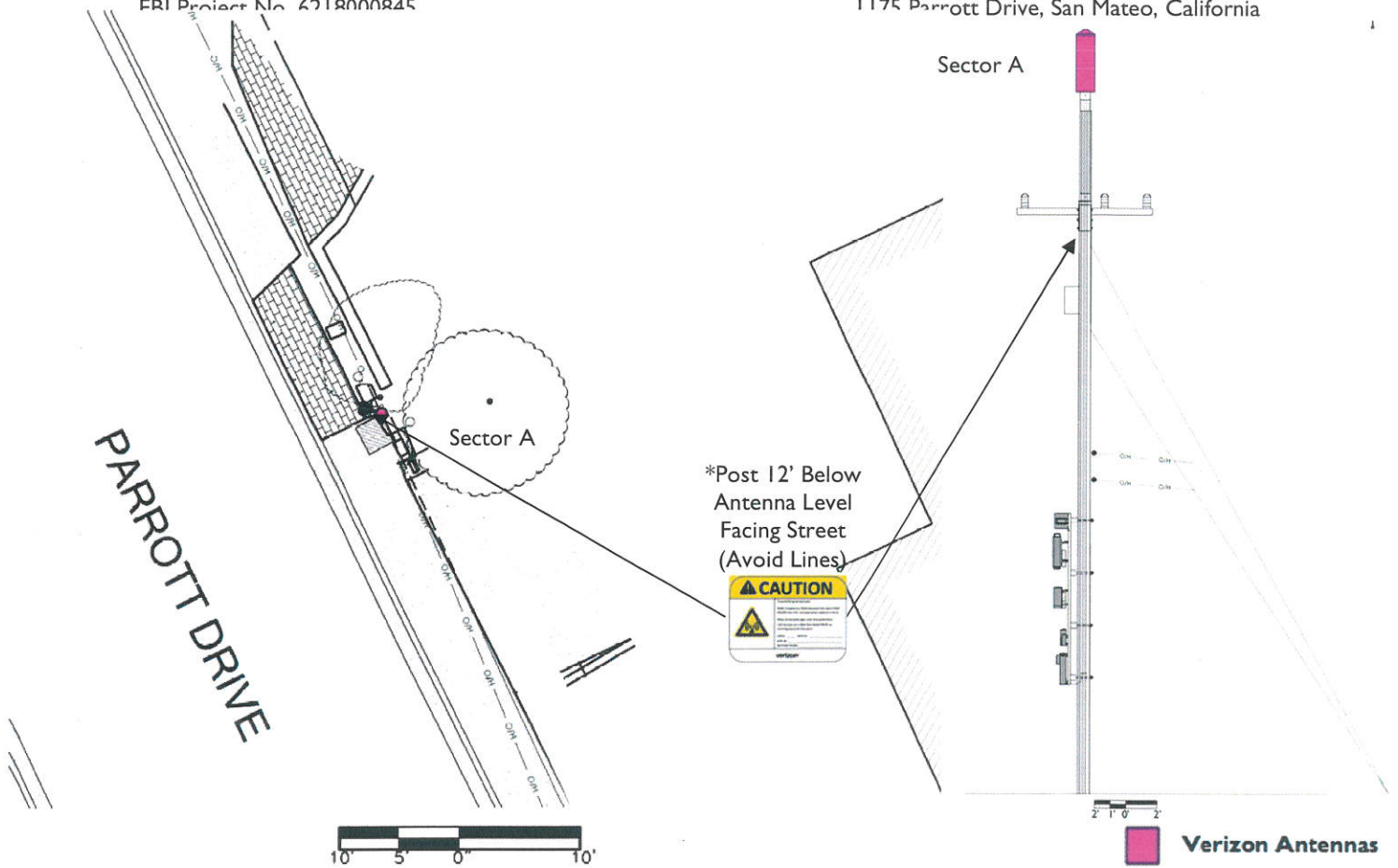
Site Name: SF Highlands Baywood Park 005






Verizon Site Number: 483409

Report Date: 02-15-18

 **Verizon Antennas**

Verizon Signage Plan



Sign Image	Description	Posting Instructions	Required Signage
	Notice To Workers Informational sign, used to notify workers that there are active antennas installed and provide guidelines for working in RF environments.	N/A	Not Required.
	NOC Information Sign Informational sign with NOC Phone Number and Base Transceiver Station (BTS) Number	N/A	Not Required.
	Blue Notice Sign Used to alert individuals that they are entering an area where the power density emitted from transmitting antennas exceeds the FCC's maximum permissible exposure limit for the general public but is less than the occupational exposure limit.	N/A	Not Required.
	Yellow Caution Sign Used to alert individuals that they are entering an area where the power density emitted from transmitting antennas may exceed the FCC's maximum permissible exposure limit for the general public and the occupational exposure limit.	Securely post 12' below the antenna in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.	Post 12' Below Antenna Level Facing Street
	Red Warning Sign Used to alert individuals that they are entering an area where the power density emitted from the transmitting is substantially above the FCC's maximum permissible limit for occupational exposure (greater than ten times the Occupational limit).	N/A	Not Required.

Appendix C
Roofview® Export File

StartMapDefinition

Roof Max Y Roof Max X Map Max Y Map Max X Y Offset X Offset Number of envelope
 120 120 140 140 20 20 1 \$AE\$81;\$E\$AE\$81;SET\$200

StartSettingsData

Standard Method Uptime Scale Facto Low Thr Low Color Mid Thr Mid Color Hi Thr Hi Color Over Color Ap Ht Mult Ap Ht Method
 4 2 1 1 100 1 500 4 5000 2 3 1.5 1

StartAntennaData It is advisable to provide an ID (ant 1) for all antennas

ID	Name	(MHz)	Trans Power	Trans Count	Coax Len	Coax Type	Other Loss	Input Power	Calc Power	Mfg	Model	(ft) X	(ft) Y	(ft) Z	Type	(ft) Aper	dBd Gain	BWdth Pt Dir	Uptime Profile	ON flag
VZW A1	LTE	700	60	1	0	0		1		Amphenol	CUUT070X	30	30	44.92		4	10.35	82;35		ON*
VZW A1	LTE	2100	60	1	0	0		1		Amphenol	CUUT070X	30	30	44.92		4	14.05	74;35		ON*
VZW A1	LTE	700	60	1	0	0		1		Amphenol	CUUT070X	30	30	44.92		4	10.35	82;155		ON*
VZW A1	LTE	2100	60	1	0	0		1		Amphenol	CUUT070X	30	30	44.92		4	14.05	74;155		ON*

StartSymbolData

Sym	Map Mark	Roof X	Roof Y	Map Label	Description (notes for this table only)
Sym		5		35 AC Unit	Sample symbols
Sym		14		5 Roof Access	
Sym		45		5 AC Unit	
Sym		45		20 Ladder	