



SF HIGHLANDS BAYWOOD PARK 003

PUBLIC RIGHT-OF-WAY, ADJACENT TO 1852 LEXINGTON AVE.
SAN MATEO, CA 94402

SITE ID: SF HIGHLANDS BAYWOOD PARK 003
LOCATION CODE: 438407
PROJECT ID: 20171536393
SITE TYPE: PG&E UTILITY POLE
COUNTY: SAN MATEO COUNTY

RECEIVED
FEB 23 2018
San Mateo County
Planning Division



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



MODUS INC.
240 STOCKTON ST., 3rd FLOOR
SAN FRANCISCO, CA 94108



CHARLES M. SALTER ASSOCIATES
130 SUTTER ST. FLR. 5
SAN FRANCISCO, CA 94104



No.	Description	Date
1	90% CONSTRUCTION DOCUMENTS	27 JULY 2017
2	90% CONSTRUCTION DOCUMENTS REV.1	24 OCTOBER 2017
3	90% CONSTRUCTION DOCUMENTS REV.2	06 NOVEMBER 2017
4	90% CONSTRUCTION DOCUMENTS REV.3	08 DECEMBER 2017
5	90% CONSTRUCTION DOCUMENTS REV.4	29 DECEMBER 2017
6	90% CONSTRUCTION DOCUMENTS REV.5	04 JANUARY 2018
7	100% CONSTRUCTION DOCUMENTS	31 JANUARY 2018
8	100% CONSTRUCTION DOCUMENTS REV.1	15 FEBRUARY 2018

SF HIGHLANDS BAYWOOD PARK 003

1852 LEXINGTON AVENUE
SAN MATEO, CA 94402

TITLE SHEET

MODUS PROJECT #	20171536393
LOCATION IDENTIFICATION #	438407
DATE DRAWN	01/04/2018
DRAWN BY	AEM, RGR
CHECKED BY	AEM, RGR

T-1

SCALE AS NOTED, SHEET SIZE 30"x42"
SCALE .75xNOTED, SHEET SIZE 24"x36"

2/16/2018 11:03:56 AM

PROJECT DESCRIPTION:

VERIZON WIRELESS PROPOSES TO CONSTRUCT A NEW WIRELESS COMMUNICATIONS SITE ON AN EXISTING PG&E WOODEN UTILITY POLE. THE WIRELESS COMMUNICATIONS SITE WILL BE COLOCATED WITH OTHER UTILITIES. THE GOAL OF THE PROJECT IS TO EXPAND THE VERIZON WIRELESS NETWORK COVERAGE.

SCOPE OF WORK:

THE PROPOSED SCOPE OF WORK CONSISTS OF THE FOLLOWING:

- INSTALL (1) NEW 7'-0" BAYONET EXTENSION ON TOP OF EXISTING UTILITY POLE
- INSTALL (1) NEW CANNISTER ANTENNA ON TOP OF BAYONET
- INSTALL (1) NEW STEEL SHROUD HOUSING FOR COMBINERS/ SPLITTERS AS DEPICTED IN THESE DRAWINGS
 - INSTALL (6) NEW SIGNAL HYBRID COUPLERS
- INSTALL (2) NEW REMOTE RADIO UNITS, WITH PSU MOUNTED BEHIND, TO SIDE OF EXISTING UTILITY POLE
 - INSTALL (1) NEW RRUS-32
 - INSTALL (1) NEW RRUS-2212
- INSTALL (1) NEW POWER METER ON EXISTING UTILITY POLE
- INSTALL (1) NEW AC LOAD CENTER WITH DISCONNECT SWITCH TO SIDE OF EXISTING UTILITY POLE
- INSTALL (1) NEW FIBER POINT-OF-CONNECTION ON SIDE OF EXISTING UTILITY POLE
- INSTALL NEW COAXIAL AND POWER CONDUITS FROM NEW EQUIPMENT TO ANTENNAS LOCATED WITHIN CANNISTER AT TOP OF EXISTING UTILITY POLE
- PAINT ALL NEW EQUIPMENT TO MATCH EXISTING UTILITY POLE IN COLOR
- INSTALL NEW COAXIAL AND POWER CABLING AND DRESS IN A TIGHT, NEAT MANNER WITHOUT EXCESS CABLING LOOPS

PROJECT INFORMATION:

SITE ADDRESS: NEAR 1852 LEXINGTON AVENUE
SAN MATEO, CA 94402
OWNER: PACIFIC GAS & ELECTRIC
LATITUDE: 37° 31' 07.50"
LONGITUDE: 122° 20' 49.29"
CITY: SAN MATEO
JURISDICTION: SAN MATEO COUNTY
ACCESSOR'S PARCEL NUMBER: PUBLIC RIGHT-OF-WAY
NEAR 041-135-120
ZONING: N/A, PUBLIC RIGHT-OF-WAY
ELEVATION: BASE OF POLE - 557.1' AMSL

CODES AND REFERENCE MATERIAL:

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

- 2016 CALIFORNIA ADMINISTRATIVE CODES (INCL. TITLES 24 & 25)
- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA FIRE CODE
- 2016 CALIFORNIA GREEN BUILDING CODE
- 2016 CALIFORNIA ENERGY CODE
- GENERAL ORDER 95

DISABLED ACCESS REQUIREMENTS:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CODE OF REGULATIONS, TITLE 24, PART 2, VOLUME 1, CHAPTER 11B, DIVISION 2, SECTION 11B-203.5

OCCUPANCY AND CONSTRUCTION TYPE:

OCCUPANCY: N/A (NOT FOR HUMAN HABITATION)
CONSTRUCTION TYPE: G.O. 128 AND 2008 AASHTO 5TH EDITION STANDARD

PROJECT TEAM CONTACT INFORMATION:

APPLICANT: VERIZON WIRELESS
2785 MITCHELL DRIVE
WALNUT CREEK, CA 94598
LEASING AGENT: SCOTT REVARO
MODUS-CORPORATION, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108
PHONE: (415) 595-0938
EMAIL: srevarod@modus-corp.com
LAND USE PLANNER: KEVIN BOWYER
MODUS-CORPORATION, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108
PHONE: (408) 219-5442
EMAIL: kbwyer@modus-corp.com
CONSTRUCTION MANAGER: KRESSTON HAYNES
MODUS-CORPORATION, INC.
240 STOCKTON STREET, 3RD FLOOR
SAN FRANCISCO, CA 94108
PHONE: (209) 938-7251
EMAIL: khaynes@modus-corp.com
ARCHITECT OF RECORD: RYAN GNUSTI RASKOP
CHARLES M. SALTER ASSOCIATES INC.
130 SUTTER STREET, FLOOR 5
SAN FRANCISCO, CA 94104
PHONE: (510) 598-2724
EMAIL: ryan.raskop@cmsalter.com
VERIZON WIRELESS PROJECT MANAGER: KAREN MCPHERSON
2785 MITCHELL DRIVE, SUITE #9
WALNUT CREEK, CA 94598
PHONE: (925) 200-6328
EMAIL: karen.mcperson@verizonwireless.com

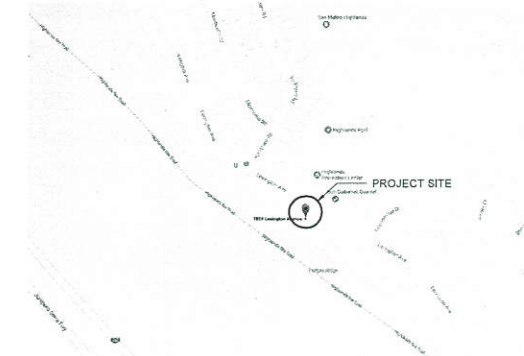
DRAWING SHEET LIST

#	SHEET NAME
T-1	TITLE SHEET
G-1	GENERAL NOTES & ABBREVIATIONS
C-1	TOPOGRAPHIC SURVEY EXISTING CONDITIONS
A-1	ENLARGED SITE & EQUIPMENT PLANS
A-2	ELEVATIONS
A-3	CONSTRUCTION DETAILS
A-4	CONSTRUCTION DETAILS
E-1	CABLING LINE & GROUNDING DIAGRAMS
Grand total: 8	

DIRECTIONS TO SITE FROM VERIZON REGIONAL OFFICE:

Get on I-680 S from Ygnacio Valley Rd
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 the Interstate 680 S ramp to San Jose
Continue on I-680 S. Take I-580 W and CA-92 W to Polhemus Rd in San Mateo. Take exit 9A from CA-92 W
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-580
Use the right 2 lanes to take exit 16A for Interstate 680 S toward San Jose/San Mateo Bridge
Merge onto I-580 S
Use the right 2 lanes to take exit 27 to merge onto CA-92 W toward San Mateo Bridge/Jackson St
Partial toll road
Take exit 9A for Ralston Ave toward Belmont
Take Ticonderoga Dr to Lexington Ave in Highlands-Baywood Park
Turn right onto Polhemus Rd
Turn left onto Ticonderoga Dr
Turn right onto Lexington Ave

VICINITY MAP:

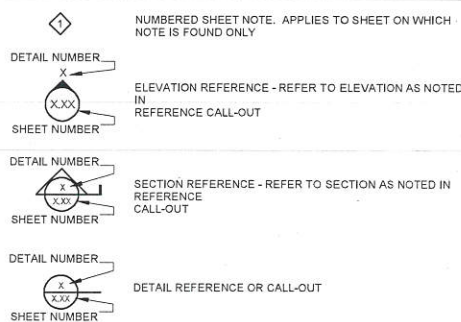


BLD 2018-00071

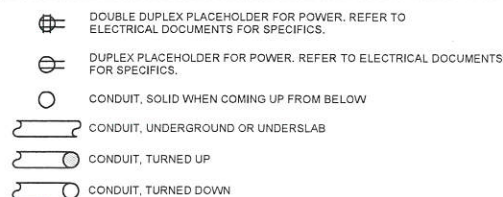
GENERAL ABBREVIATIONS:

A	AMPERES	OC	ON CENTER
ACP	ACCESS CONTROL PANEL	OFE	OWNER FURNISHED EQUIPMENT
ACS	ACCESS CONTROL SYSTEM	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
AFF	ABOVE FINISHED FLOOR	OFI	OWNER FURNISHED CONTRACTOR INSTALLED
AHJ	AUTHORITY HAVING JURISDICTION	OSP	OUTSIDE PLANT
AMP	AMPLIFIER	OPAC	OWNER FURNISHED BOOK MANAGEMENT SYSTEM
ACR	ARCHITECT OF RECORD	P	PAGING LOUDSPEAKER
ALS	ASSISTIVE LISTENING SYSTEM	PB	PULL BOX
AUD	AUDIO	PIR	PASSIVE INFRARED
AUTO	AUTOMATIC	PNL	PANEL
AUX	AUXILIARY	POE	POWER OVER ETHERNET
AV	AUDIOVISUAL	PPP	PORT PATCH PANEL
AVC	AUDIOVISUAL CONTRACTOR	PR	PAIR OF CONDUCTORS
AVTC	AUDIOVISUAL TERMINAL CABINET	PROJ	PROJECTOR
AWG	AMERICAN WIRE GAUGE	PT	POKE THROUGH DEVICE
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS	PTZ	PAN TILT ZOOM
BP	BROADCAST PANEL	PVC	POLYVINYL CHLORIDE
C	CONDUIT	PWR	POWER
CATV	COMMUNITY ANTENNA TELEVISION SYSTEM	R	RIGHT AUDIO
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	RCP	REFLECTED CEILING PLAN
CFCI	CONTRACTOR FURNISHED OWNER INSTALLED	REX	REQUEST TO EXIT
CL	CENTERLINE	RFI	REQUEST FOR INFORMATION
CM	CAMERA	RMC	RIGID METALLIC CONDUIT
CP	CONTROL PANEL	SC	CONTROL PANEL PROJECTION SCREEN
CPU	COMPUTER	SCRN	PROJECTION SCREEN CASE
CS	CONDUIT STUB	SED	SEE ELECTRICAL DRAWINGS
CSA	CHARLES SALTER ASSOCIATES	SEH	SECURITY EQUIPMENT HUB
DA	DISTRIBUTION AMPLIFIER	SDI	SERIAL DIGITAL INTERFACE
DC	DOCUMENT CAMERA	SM	SINGLE MODE
DGP	DATA GATHERING PANEL	SMS	SECURITY MANAGEMENT SYSTEM
DP	FLAT PANEL DISPLAY	SPD	SURGE PROTECTION DEVICE
DS	DIGITAL SIGNAGE	SR	SURROUND REAR LOUDSPEAKER
DSP	DIGITAL SIGNAL PROCESSOR	SS	SURROUND SIDE LOUDSPEAKER
DV	DIVISION	STR	STRANDS (OF FIBER)
DMA	DOOR MANAGEMENT ALARM	STP	SHIELDED TWISTED PAIR
DVI	DIGITAL VISUAL INTERFACE	SUB	SUBWOOFER LOUDSPEAKER
(E)	EXISTING	SY	SECURITY SYSTEM
EC	ELECTRICAL CONTRACTOR	SY	SECURITY SYSTEM
ECS	EMERGENCY COMMUNICATION SYSTEM	TBB	TELECOMMUNICATIONS TABLE BOX
EF	ENTRANCE FACILITY FOR TELECOMMUNICATIONS (MPOE)	TB	BONDING BACKBONE
EMT	ELECTRIC METALLIC TUBING	TELECO	TELEPHONE COMPANY
ER	EQUIPMENT ROOM	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
EXT	EXTERIOR	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
(F)	FUTURE	TP	TOUCH PANEL
FACP	FIRE ALARM CONTROL PANEL	TR	TELECOM ROOM (IDF)
FATC	FIRE ALARM TERMINAL CABINET	TYP	TYPICAL
FB	FLOORBOX	UON	UNLESS OTHERWISE NOTED
FO	FIBER OPTIC	UNINT	UNINTERRUPTIBLE POWER SUPPLY
FOV	FIELD OF VIEW	UTP	UNSHIELDED TWISTED PAIR
GC	GENERAL CONTRACTOR	VOLTS	VOLTS
GE	GROUNDING EQUALIZER	VC	VOLVIME CONTROL
HD	HD BASE-T	VDA	VIDEO DISTRIBUTION
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE	VP	VIDEO PROJECTOR
IC	INTERCOM	VSS	VIDEO SURVEILLANCE SYSTEM
IDF	INTERMEDIATE DISTRIBUTION FRAME	WB	WALL BOX
IDS	INTRUSION DETECTION SYSTEM	WM	WIRELESS MICROPHONE
INT	INTERIOR	WP	WEATHERPROOF
IP	INTERNET PROTOCOL		
IT	INFORMATION TECHNOLOGY		
JB	JUNCTION BOX		
L	LEFT AUDIO		
LVC	LOW VOLTAGE CONTROLLER		
MATV	MASTER ANTENNA TELEVISION		
MDF	MAIN DISTRIBUTION FRAME		
MIC	MICROPHONE		
MM	MULTIMODE		
MPOE	MINIMUM POINT OF ENTRY		
(N)	NEW		
NC	NORMALLY CLOSED		
NIC	NOT IN CONTRACT		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		

SHEET REFERENCING CONVENTIONS:



ELECTRICAL POWER AND CONDUIT SYMBOLS:



GENERAL NOTES:

- PRIOR TO SUBMISSION OF BIDS, VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS. FOLLOWING THE SITE VISIT, SHOULD FIELD CONDITIONS CONFLICT WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT / ENGINEER OF RECORD FOR ALL CONFLICTS THROUGH A STANDARD RFI PROCESS
- RECEIVE WRITTEN AUTHORIZATION THROUGH FORMAL REQUEST FOR INFORMATION (RFI) PROCESS TO PROCEED ON ANY WORK NOT CLEARLY DEFINED OR IDENTIFIED IN THE CONTRACT DOCUMENTS BEFORE COMMENCING WORK.
- ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES, INCLUDING APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, THE CODES AND REGULATIONS LISTED ON THIS SHEET ARE NOT MEANT TO BE ALL-INCLUSIVE.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. IF THE RECOMMENDATIONS ARE IN CONFLICT WITH THE CONTRACT AND CONSTRUCTION DOCUMENTS AND/OR APPLICABLE CODES OR REGULATIONS, REVIEW AND RESOLVE THE CONFLICT WITH DIRECTION FROM THE IMPLEMENTATION ENGINEER AND ARCHITECT/ENGINEER OF RECORD PRIOR TO PROCEEDING.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATION OF ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE AUTHORIZED REPRESENTATIVE OF ANY OUTSIDE POLE OR PROPERTY OWNER.
- MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO PAVING, CURBS, VEGETATION, GALVANIZED SURFACE OR OTHER EXISTING ELEMENTS AND UPON COMPLETION OF THE WORK, REPAIR AND DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF AT&T MOBILITY.
- MAINTAIN GENERAL AREA TO BE CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION DAILY.
- PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED UNLESS OTHERWISE NOTED. ANNOTATED DIMENSIONS TAKE PRECEDENCE OVER DRAWING SCALE. SUBMIT REQUEST FOR INFORMATION IF DISCREPANCIES OCCUR.
- THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCY'S FACILITIES WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO START OF CONSTRUCTION AND USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE FACILITIES. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF UTILITIES OR OTHER AGENCY'S FACILITIES WITHIN THE LIMITS OF THE WORK, WHETHER THEY ARE IDENTIFIED IN THE CONTRACT DOCUMENTS OR NOT.
- NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600, AT LEAST TWO WORKING DAYS PRIOR TO START OF ANY EXCAVATION.



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
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BAYWOOD PARK 003**

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**GENERAL NOTES &
ABBREVIATIONS**

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LOCATION IDENTIFICATION #	438407
DATE DRAWN	01/04/2018
DRAWN BY	AEM, RGR
CHECKED BY	AEM, RGR

G-1

SCALE AS NOTED, SHEET SIZE 30"x42"
SCALE .75xNOTED, SHEET SIZE 24"x36"



PROPERTY INFORMATION

NO: 20171536393
 SITE: SF HIGHLANDS BAYWOOD PARK 003
 1840 LEXINGTON AVENUE
 SAN MATEO, CA 94402

BASIS OF BEARING

BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM STATE PLANE COORDINATE ZONE 3, DETERMINED BY GPS OBSERVATIONS.

BENCHMARK

ELEVATION ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS, APPLYING GEOID 99 SEPARATIONS, CONSTRAINING TO NGS CONTROL STATION 'LUTZ' ELEVATION=450.0' (NAVD88)

UTILITY NOTES

SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT U.S.A. AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

SURVEYOR'S NOTES

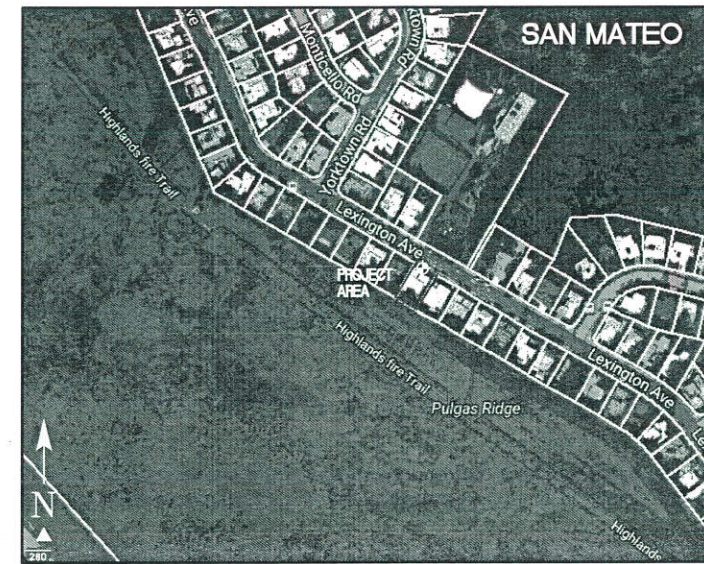
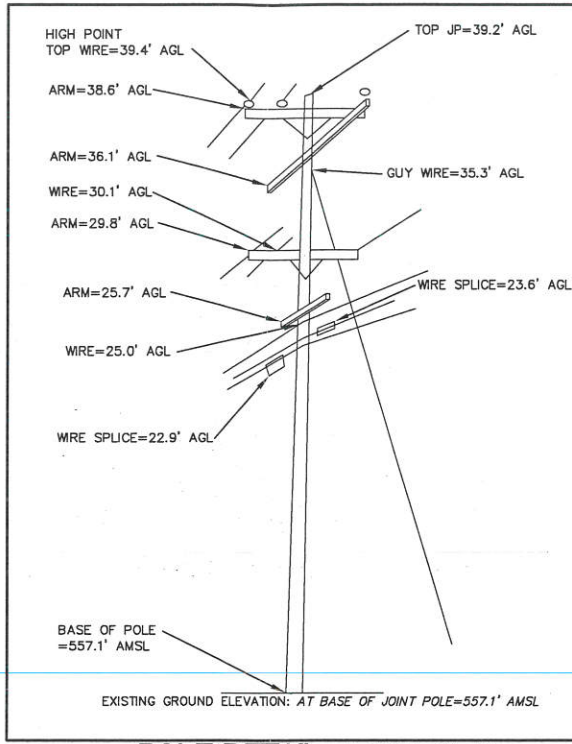
ALL EASEMENTS CONTAINED IN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

LEGEND

- | | | | |
|------|------------------------|---|------------------------|
| DI | DRAIN INLET | ⊕ | WATER CONTROL VALVE |
| TFC | TOP FACE OF CURB | ⊕ | FIRE HYDRANT |
| R/W | RIGHT OF WAY | ⊕ | GUY CONDUCTOR |
| EP | EDGE OF PAVED DRIVEWAY | ⊕ | FOUND AS NOTED |
| DW | DRIVEWAY | ⊕ | POWER POLE |
| STLT | STREET LIGHT | ⊕ | LIGHT POLE |
| SW | SIDEWALK | ⊕ | ELECTRICAL TRANSFORMER |
| TP | TOP OF PARAPET | ⊕ | AIR CONDITIONING UNIT |
| OH | OVERHANG | ⊕ | TELEPHONE PEDESTAL |
| FH | FIRE HYDRANT | ⊕ | TELEPHONE VAULT |
| WV | WATER VALVE | ⊕ | TELEPHONE MANHOLE |
| MH | MANHOLE | ⊕ | GAS VALVE |
| ⊕ | GEODETTIC COORDINATES | ⊕ | GAS METER |
| ⊕ | SPOT ELEVATION | — | PROPERTY LINE |
| ⊕ | DISH ANTENNA | — | CHAIN LINK FENCE |

SURVEY DATE

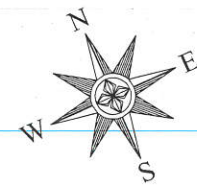
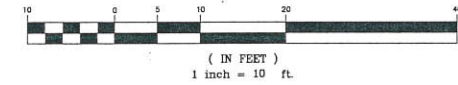
7/14/17



VICINITY MAP

N.T.S.

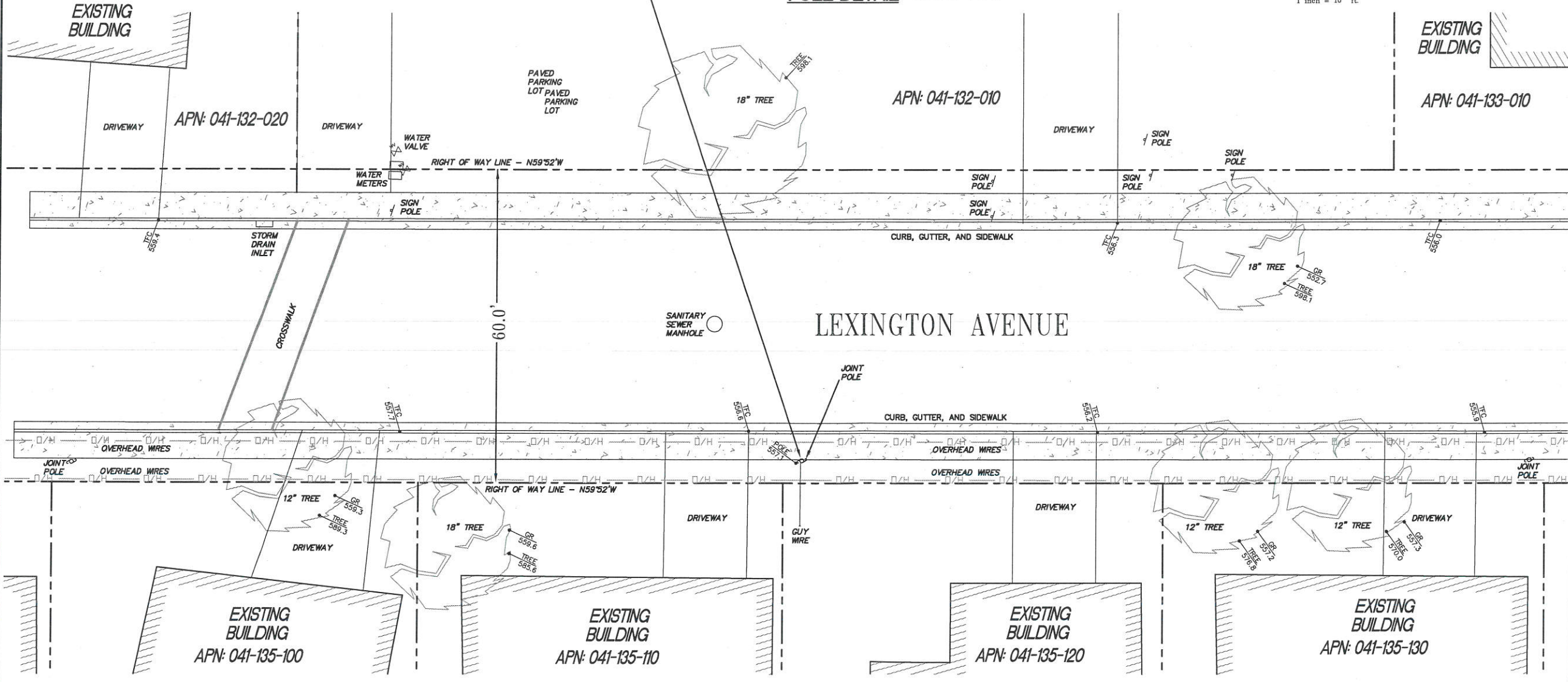
GRAPHIC SCALE



PROJECT AREA
10 SCALE

GEODETTIC COORDINATES TAKEN HERE AT JOINT POLE

(NAD 83) 37° 31' 07.50"
 122° 20' 49.29"
 EXISTING GROUND ELEVATION:
 BASE OF JOINT POLE=557.1' AMSL
 EXISTING OVERALL HIGH POINT:
 TOP OF WIRE=39.4' AGL



REV.	DATE	DESCRIPTION
1	7/22/2017	SITE PLAN

HAYES
 Land Surveying
 And Mapping
 2330 MADRICKAN COURT
 CONCORD, CA 94518
 PHONE: (925) 748-5511



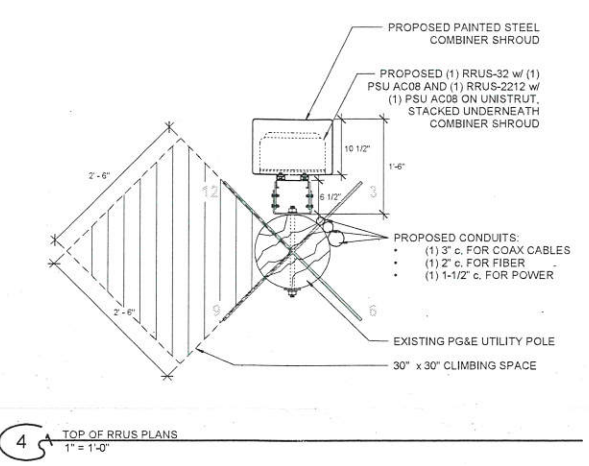
verizon
 2785 MITCHELL DRIVE
 WALNUT CREEK, CA. 94598
 OFFICE: 925-279-6000
 (925) 279-6333

TOPOGRAPHIC SURVEY
EXISTING CONDITIONS
 20171536393
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 1840 LEXINGTON AVENUE
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C-1
SHEET 1 of 1

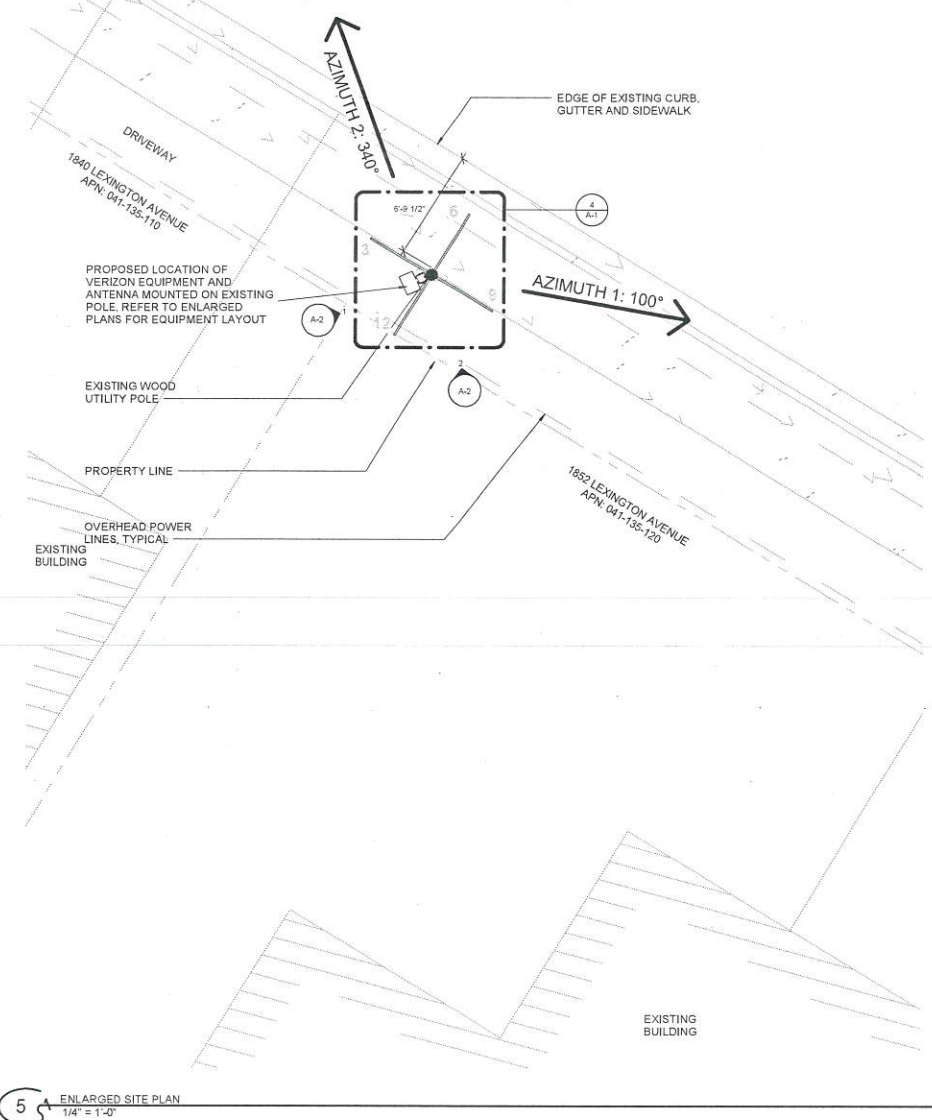
NOTE:
REFER TO SITE SURVEY FOR MORE INFORMATION

EXISTING SANITARY
SEWER MANHOLE

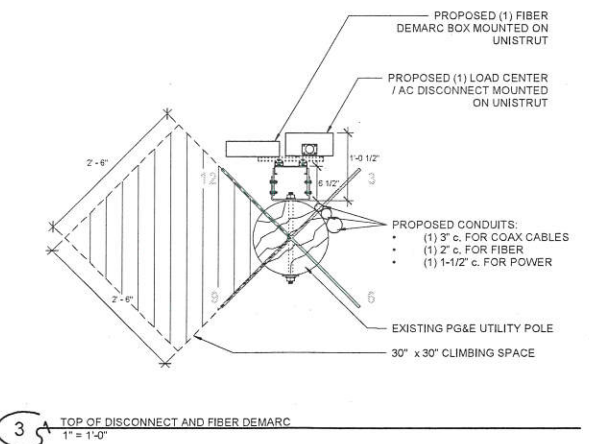
LEXINGTON AVENUE



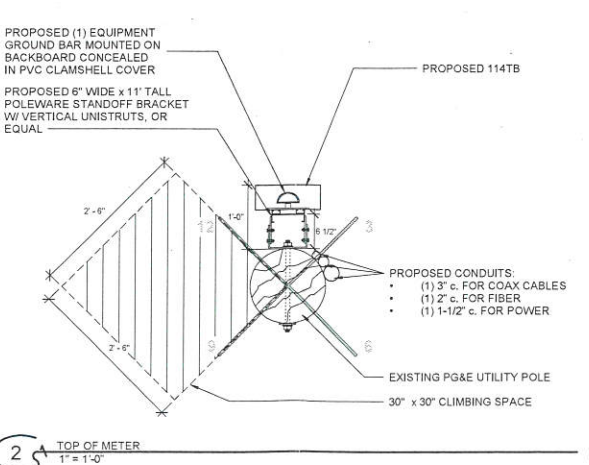
4 TOP OF RRUS PLANS
1" = 1'-0"



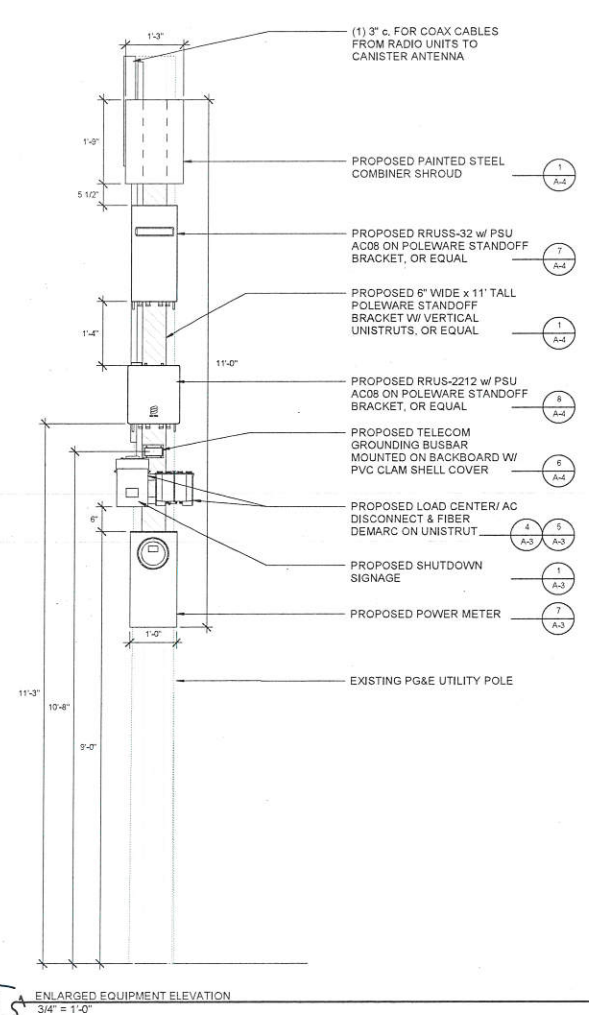
5 ENLARGED SITE PLAN
1/4" = 1'-0"



3 TOP OF DISCONNECT AND FIBER DEMARC
1" = 1'-0"

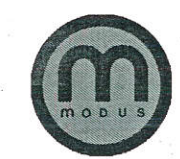


2 TOP OF METER
1" = 1'-0"



1 ENLARGED EQUIPMENT ELEVATION
3/4" = 1'-0"

verizon
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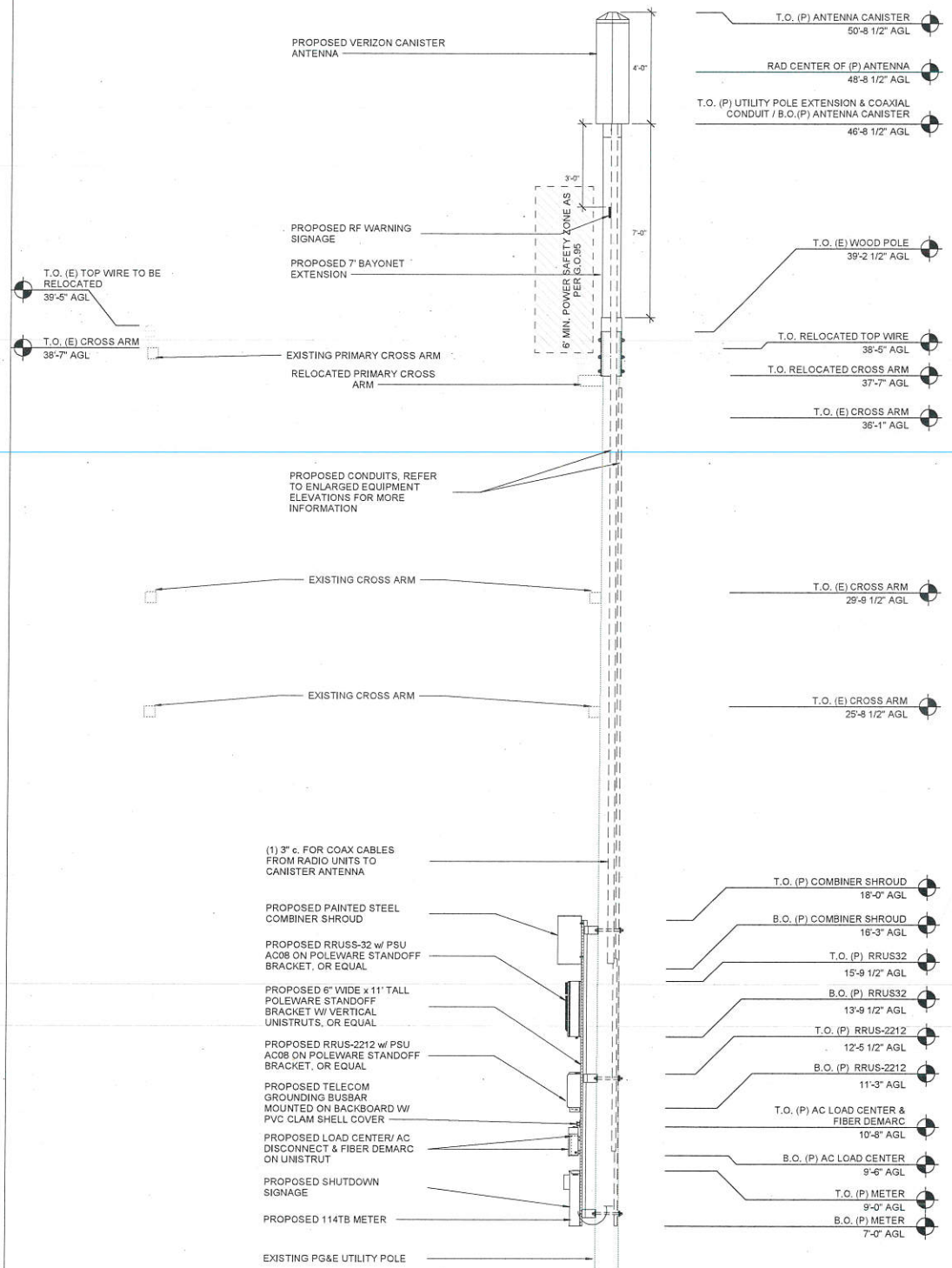
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DRAWN BY	AEM, RGR
CHECKED BY	AEM, RGR

A-1

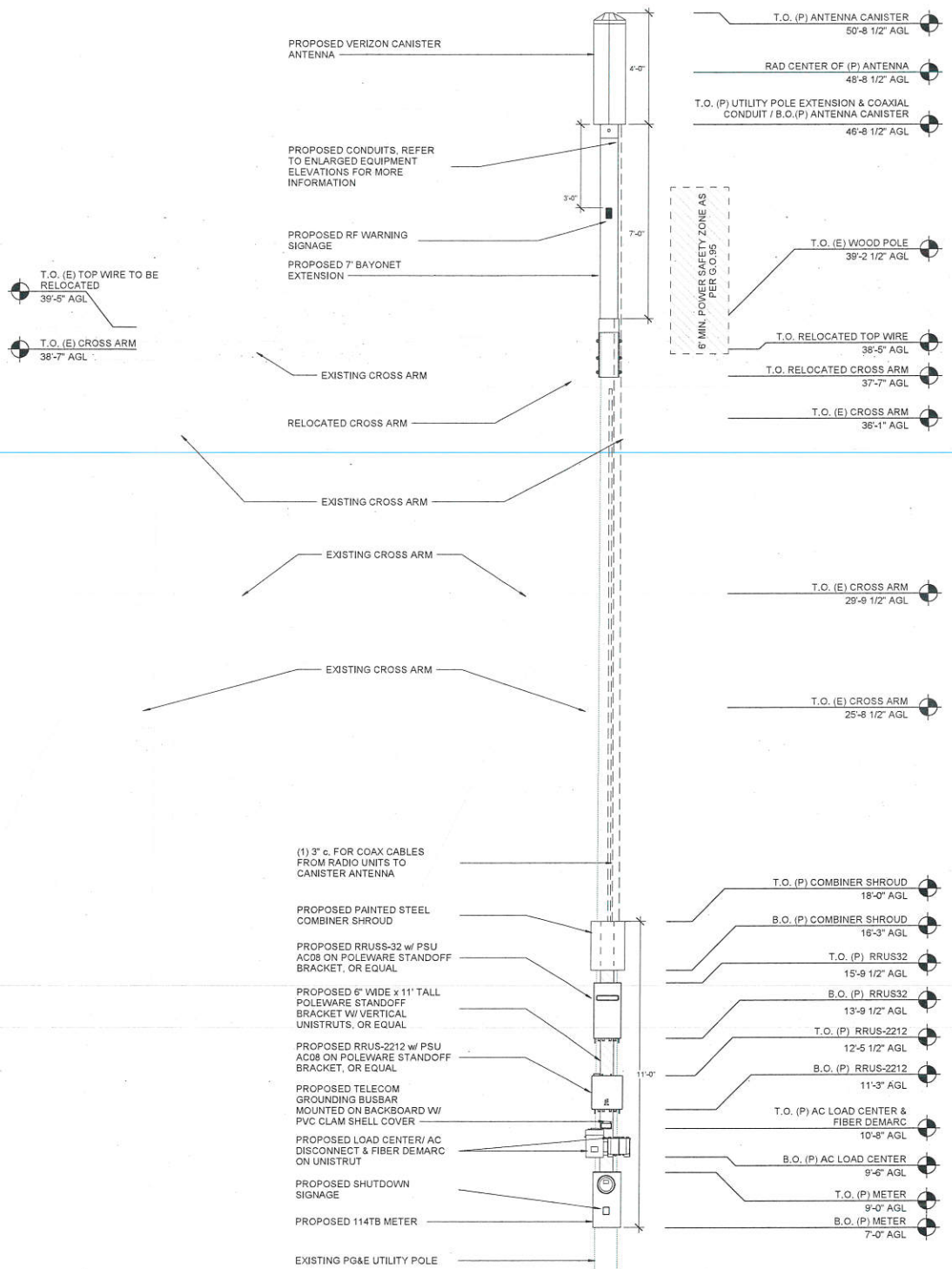
SCALE AS NOTED, SHEET SIZE 30"x42"
SCALE .75xNOTED, SHEET SIZE 24"x36"

2/16/2018 11:03:46 AM

SHEET NOTES:
 1. VERIFY ALL MEASUREMENTS OF EXISTING CONDITIONS IN-FIELD. DIMENSIONS ARE SHOWN FOR COORDINATION ONLY
 2. WIRES NOT SHOWN FOR CLARITY



2 EXISTING AND PROPOSED ELEVATIONS - SOUTHEAST
 1/2" = 1'-0"



1 EXISTING AND PROPOSED ELEVATIONS - SOUTHWEST
 1/2" = 1'-0"



VERIZON WIRELESS
 2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598



MODUS INC.
 240 STOCKTON ST., 3rd FLOOR
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CHARLES M. SALTER ASSOCIATES
 130 SUTTER ST. FLR. 5
 SAN FRANCISCO, CA 94104



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6	90% CONSTRUCTION DOCUMENTS REV.5	04 JANUARY 2018
7	100% CONSTRUCTION DOCUMENTS	31 JANUARY 2018
8	100% CONSTRUCTION DOCUMENTS REV.1	16 FEBRUARY 2018

SF HIGHLANDS
 BAYWOOD PARK 003
 1852 LEXINGTON AVENUE
 SAN MATEO, CA 94402

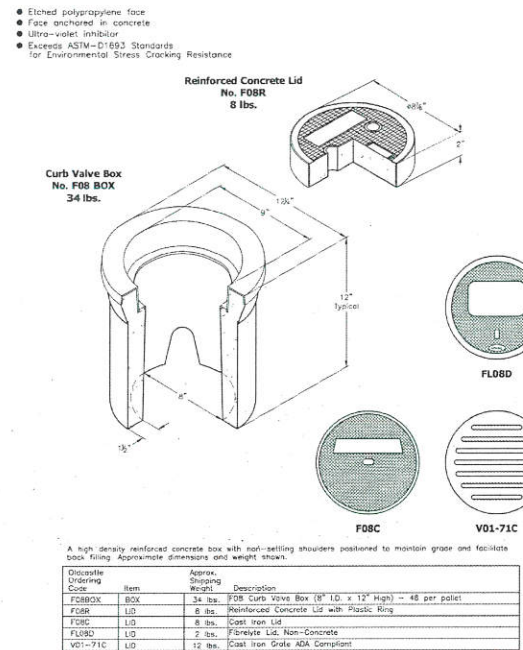
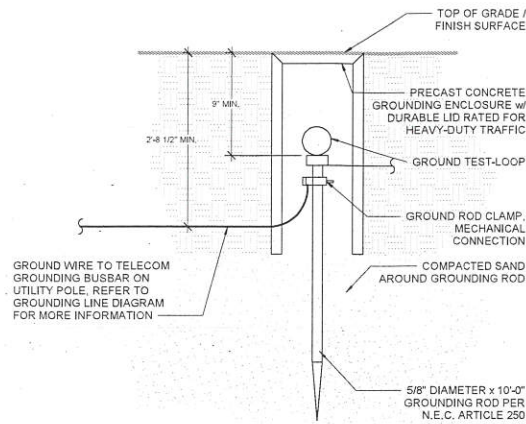
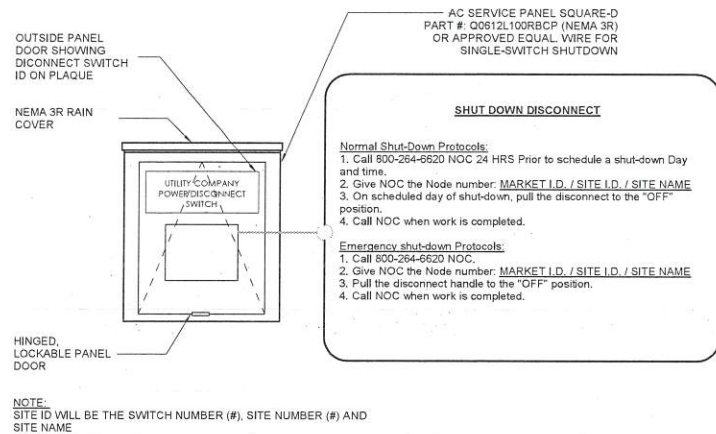
ELEVATIONS

MODUS PROJECT #	20171536393
LOCATION IDENTIFICATION #	438407
DATE DRAWN	01/04/2018
DRAWN BY	AEM, RGR
CHECKED BY	AEM, RGR

A-2

SCALE AS NOTED, SHEET SIZE 30"x42"
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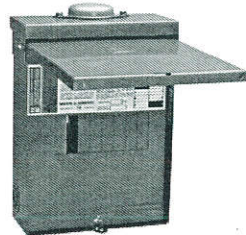
1 AC PANEL SHUT DOWN PROTOCOL SIGNAGE
NTS

2 GROUNDING ROD
NTS

3 OLDCASTLE PRECAST GROUNDING WELL
NTS

PRODUCT SPECIFICATION:

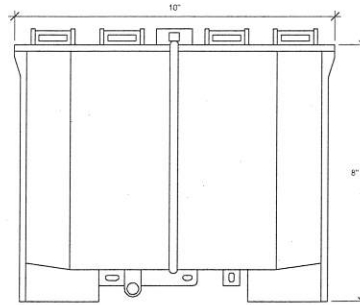
MODEL NUMBER:	Q0612L100RB OR APPROVED EQUAL
DIMENSION:	12.65" x 8.88" x 4.27"
WEIGHT:	3LBS
WIRING CONFIG.:	3-WIRE, 3-PHASE
SPACES:	6
AMPERE RATING:	100A
MAX. SINGLE POLE CIRCUITS:	12
APPROVAL:	UL LISTED
COVER TYPE:	SURFACE
ENCLOSURE RATING:	2R
VOLTAGE RATING:	120/240 VAC
WIRE SIZE:	#8 TO #1 AWG
MAX. CIRCUIT BREAKERS:	6



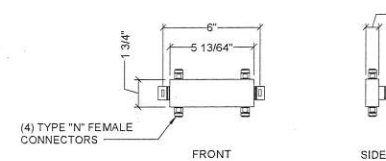
4 SCHNEIDER ELECTRIC Q0612L100RB LOAD CENTER/AC POWER DISCONNECT
NTS

PRODUCT SPECIFICATION:

MODEL NUMBER:	ARIA TECHNOLOGIES NID-12 OR APPROVED EQUAL
CONNECTOR TYPE:	8-PACK DUPLEX SC OR LC CONNECTORS; 12-STRAND fiber



5 NETWORK INTERFACE DEVICE
NTS



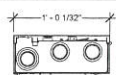
PRODUCT INFORMATION:

COUPLER	MICROLAB CA-X4
WIND AREA	0.06 sf
WEIGHT	1.43 lbs / 0.65 kg
DIMENSIONS	5.20" X 1.73" X 1.0"

6 MICROLAB CA-X4 HYBRID COUPLER
NTS

PRODUCT SPECIFICATION:

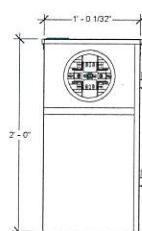
MODEL NUMBER:	B-LINE 1147B OR APPROVED EQUAL
NEUTRAL CONDUCTOR:	14 AWG-2/0 AWG
AMP RATING:	125A MAX
VOLTAGE:	600V
LOADCENTER:	12/24
CONSTRUCTION TYPE:	NEMA TYPE 3R
STANDARDS:	UL67 LISTED ANSI C12.7



BOTTOM VIEW

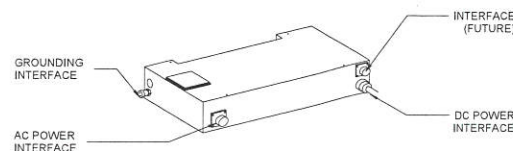


SIDE VIEW

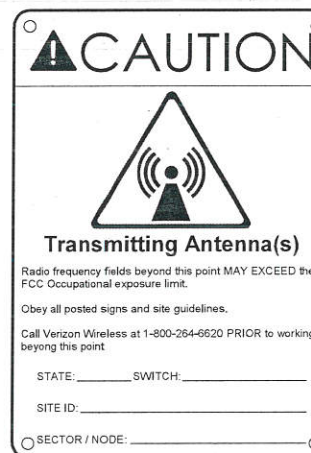


FRONT VIEW

7 1147B METER MAIN w/ TEST BLOCK BYPASS
NTS



8 PSU AC 02 / AC 08 DETAIL
NTS

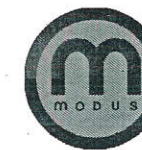


NOTE: MOUNT WARNING SIGNAGE 3'-0" BELOW PROPOSED CANISTER ANTENNA

9 G085 COMPLIANT VERIZON WIRELESS WARNING SIGNAGE
NTS

verizon

VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



MODUS INC.
240 STOCKTON ST., 3rd FLOOR
SAN FRANCISCO, CA 94108



CHARLES M. SALTER ASSOCIATES
130 SUTTER ST. FLR. 5
SAN FRANCISCO, CA 94104



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SF HIGHLANDS
BAYWOOD PARK 003

1852 LEXINGTON AVENUE
SAN MATEO, CA 94402

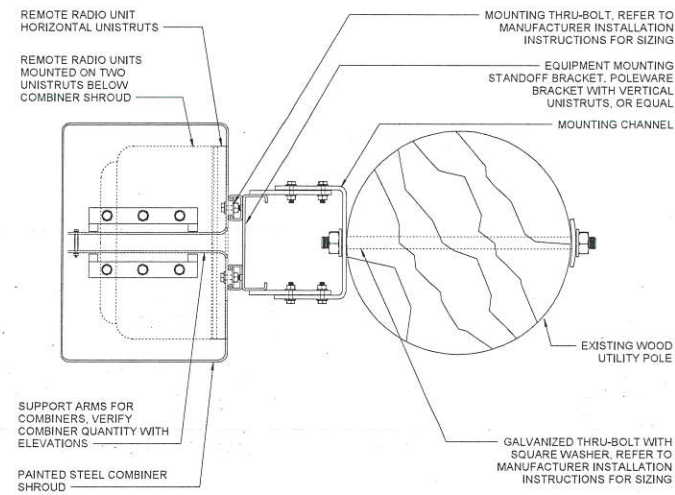
CONSTRUCTION
DETAILS

MODUS PROJECT #	20171536393
LOCATION IDENTIFICATION #	438407
DATE DRAWN	01/04/2018
DRAWN BY	AEM, RGR
CHECKED BY	AEM, RGR

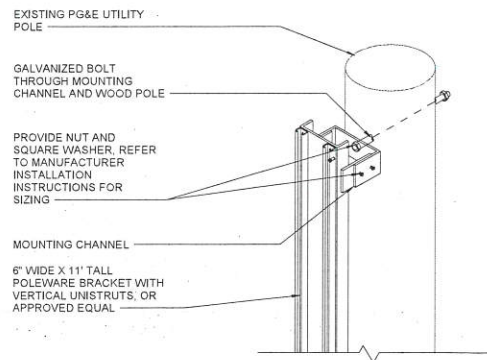
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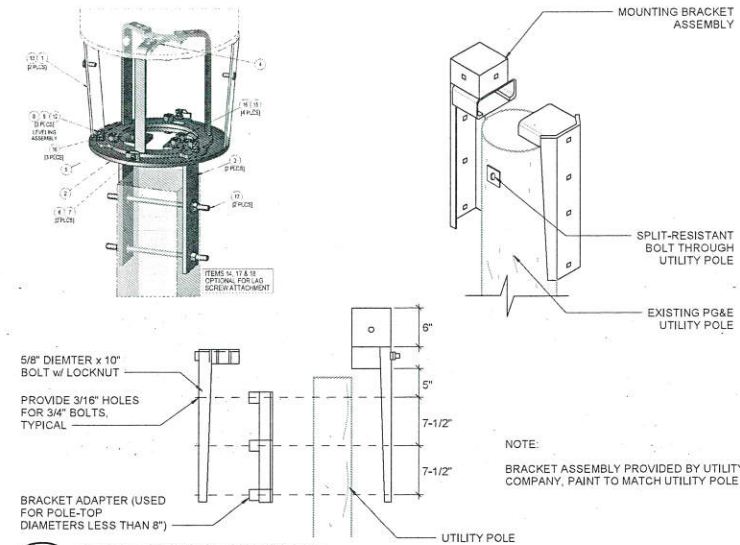
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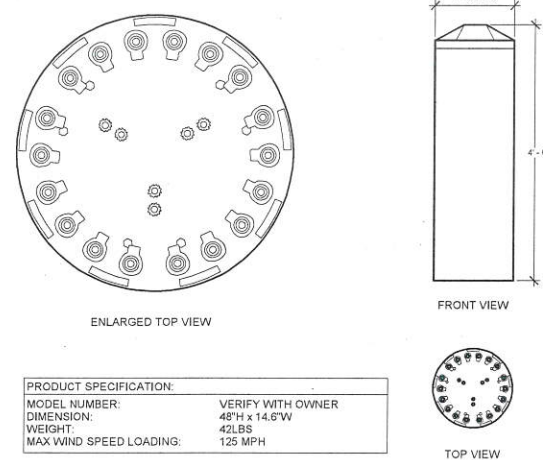
1 REMOTE RADIO UNIT AND COMBINER SHROUD MOUNTING DETAIL
NTS



2 STANDOFF EQUIPMENT MOUNTING BRACKET ISOMETRIC VIEW
NTS



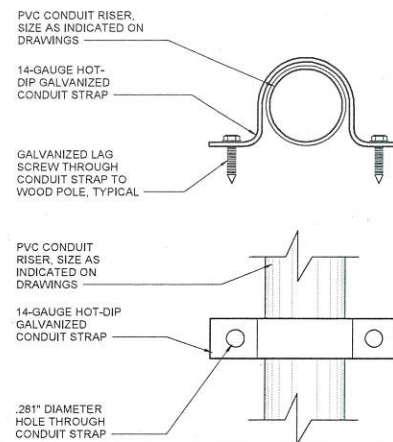
3 UTILITY POLE EXTENSION ASSEMBLY DETAIL
NTS



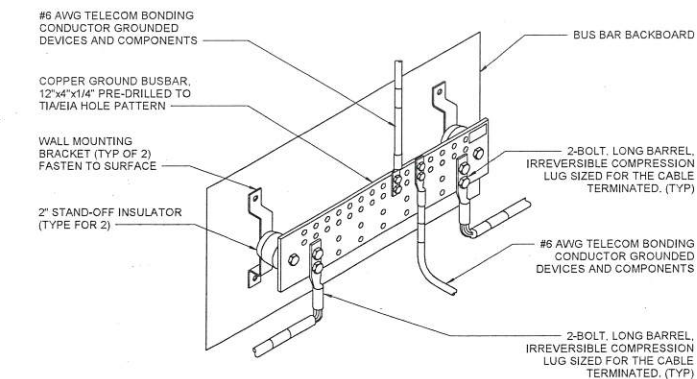
PRODUCT SPECIFICATION:

MODEL NUMBER:	VERIFY WITH OWNER
DIMENSION:	48"H x 14.6"W
WEIGHT:	42LBS
MAX WIND SPEED LOADING:	125 MPH

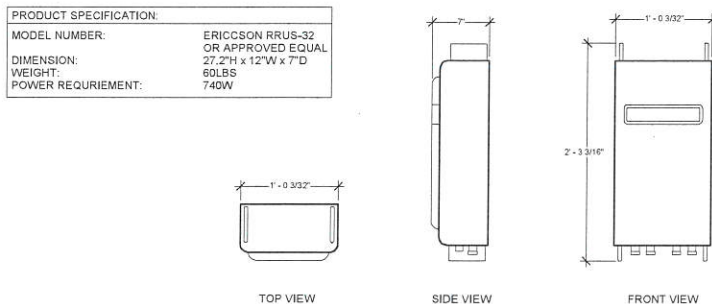
4 18-PORT CONFIGURATION CANISTER ANTENNA
NTS



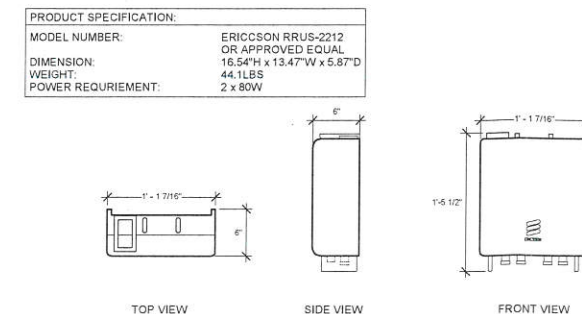
5 CONDUIT MOUNTING BRACKET DETAIL
NTS



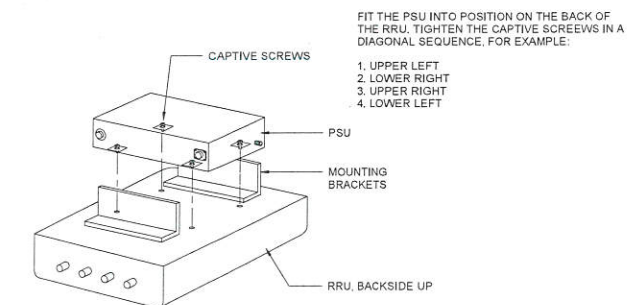
6 TELECOM GROUND BUS BAR CONNECTIONS
NTS



7 ERICSSON RRUS-32
NTS



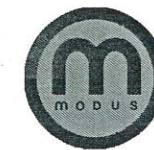
8 ERICSSON RRUS 2212
NTS



9 PSU AC 02 / AC 08 MOUNTING DETAIL
NTS

verizon

VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



MODUS INC.
240 STOCKTON ST., 3rd FLOOR
SAN FRANCISCO, CA 94108

Charles M. Salter ASSOCIATES INC

CHARLES M. SALTER ASSOCIATES
130 SUTTER ST. FLR. 5
SAN FRANCISCO, CA 94104



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SF HIGHLANDS
BAYWOOD PARK 003

1852 LEXINGTON AVENUE
SAN MATEO, CA 94402

CONSTRUCTION
DETAILS

MODUS PROJECT #	20171536393
LOCATION IDENTIFICATION #	438407
DATE DRAWN	01/04/2018
DRAWN BY	AEM, RGR
CHECKED BY	AEM, RGR

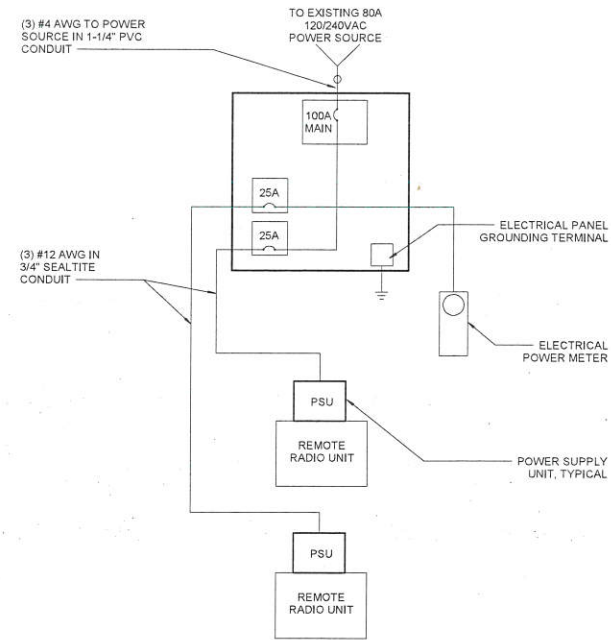
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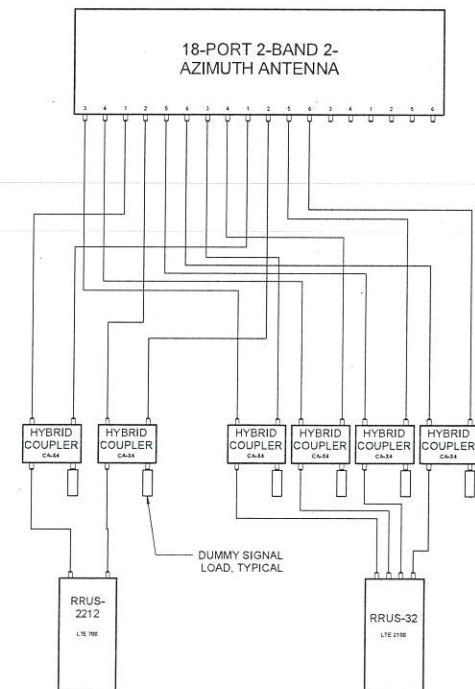
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ELECTRICAL POWER NOTES:

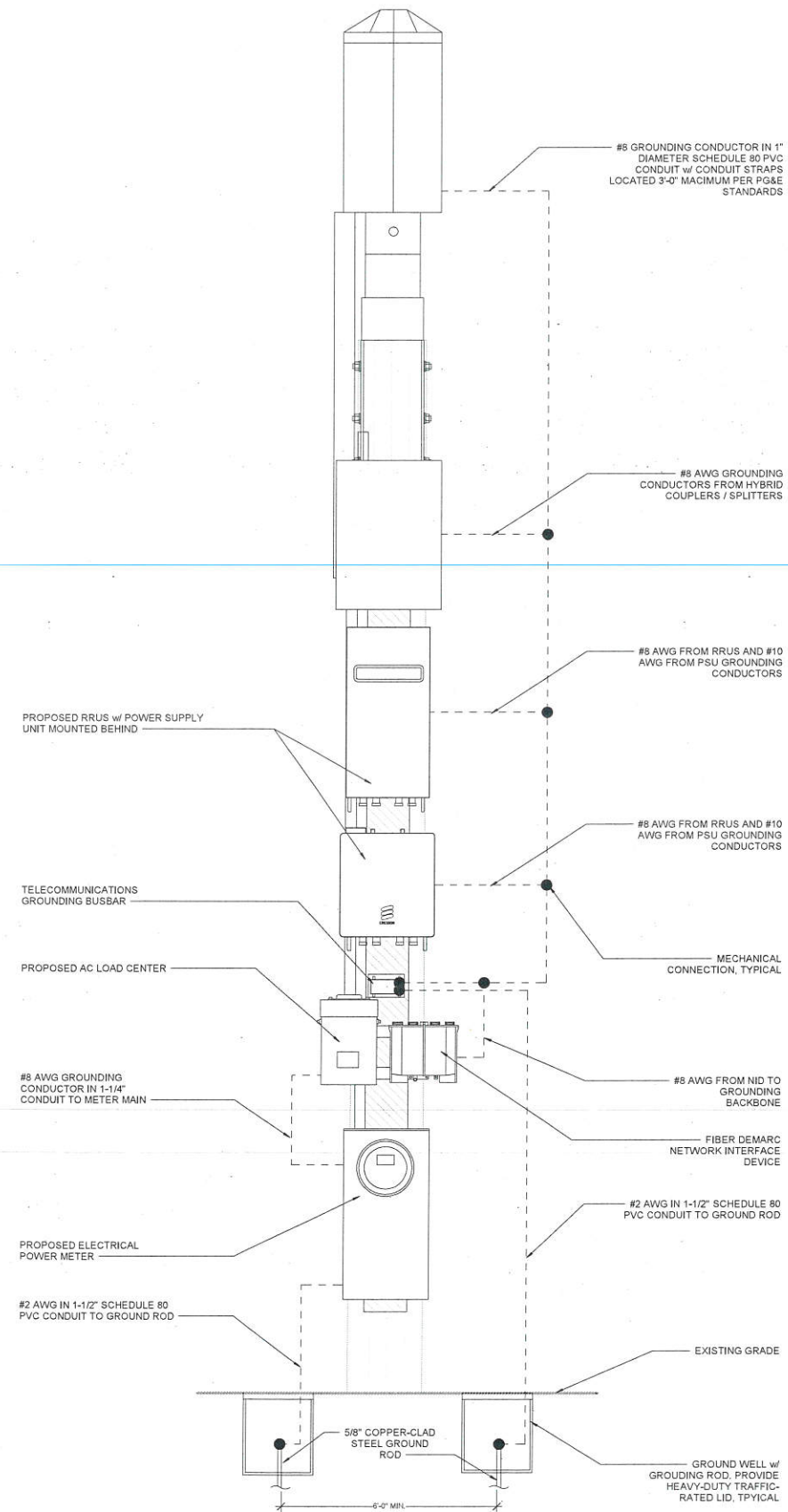
1. ALL WORK SHALL COMPLY WITH VERIZON WIRELESS CONSTRUCTION STANDARDS FOR SMALL-CELL INSTALLATION
2. AFFIX MAIN ELECTRICAL AC PANEL TO BOTH POLES OF THE MAIN LUG-BUSS AND FED THROUGH THE LOAD-SIDE. PROVIDE SINGLE SHUT-OFF SWITCH FOR ALL SMALL-CELL POWER ON AC ELECTRICAL PANEL
3. COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION. INSTALL POWER AND TELECOMMUNICATIONS CONDUIT PER UTILITY COMPANY REQUIREMENTS
4. PROVIDE 25A 120VAC ELECTRICAL SERVICE AT SMALL-CELL SITE



1 ELECTRICAL POWER LINE DIAGRAM
NTS



3 18-PORT ANTENNA 2-BAND LOW-HI 2-AZIMUTH ANTENNA WIRING DIAGRAM
NTS

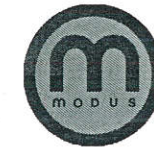


NOTE: REFER TO ELEVATIONS FOR MOUNTING REQUIREMENTS. BOND ALL ELECTRONIC COMPONENTS TO NEW GROUNDING RING

2 GROUNDING LINE DIAGRAM
NTS



VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598



MODUS INC.
240 STOCKTON ST., 3rd FLOOR
SAN FRANCISCO, CA 94108



CHARLES M. SALTER ASSOCIATES
130 SUTTER ST. FLR. 5
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7	100% CONSTRUCTION DOCUMENTS	31 JANUARY 2018
8	100% CONSTRUCTION DOCUMENTS REV.1	15 FEBRUARY 2018

**SF HIGHLANDS
BAYWOOD PARK 003**

1852 LEXINGTON AVENUE
SAN MATEO, CA 94402

**CABLING LINE &
GROUNDING
DIAGRAMS**

MODUS PROJECT #	20171536393
LOCATION IDENTIFICATION #	438407
DATE DRAWN	01/04/2018
DRAWN BY	AEM, RGR
CHECKED BY	AEM, RGR

E-1

SCALE AS NOTED, SHEET SIZE 30"x42"
SCALE .75XNOTED, SHEET SIZE 24"x36"

2/16/2018 11:03:52 AM



PG&E wood pole: pole has meter, no space to add equipment

PG&E wood pole: large, unmovable transformer equipment, not allowed per G095

Site Selected

PG&E Wood pole: pole has switch, not allowed per G095

PG&E wood pole: would require major tree trim

BLD2018-00071

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FEB 23 2018

San Mateo County
Planning Division

BEFORE

AFTER



BLD2018-00071

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ASK-01

PHOTO SIMULATION - EAST

Charles M. **Salter** ASSOCIATES INC

SHEETS REF:

SF BAYWOOD PARK 003

REVISION:

PROJECT#: 20171536393

DATE: 1/23/2018 1:12:52 PM

DRAWN: AEM CHECK: RGR

130 SUTTER STREET, FLOOR 5
 SAN FRANCISCO, CA 94104
 TEL (415)397-0442

BEFORE

AFTER



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ASK-02

PHOTO SIMULATION - NORTHWEST

SHEETS REF:

SF BAYWOOD PARK 003

REVISION:

PROJECT#: 20171536393

DATE: 1/23/2018 1:12:52 PM

DRAWN: AEM CHECK: RGR

Charles M. **Salter** ASSOCIATES INC

130 SUTTER STREET, FLOOR 5
SAN FRANCISCO, CA 94104
TEL (415)397-0442

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

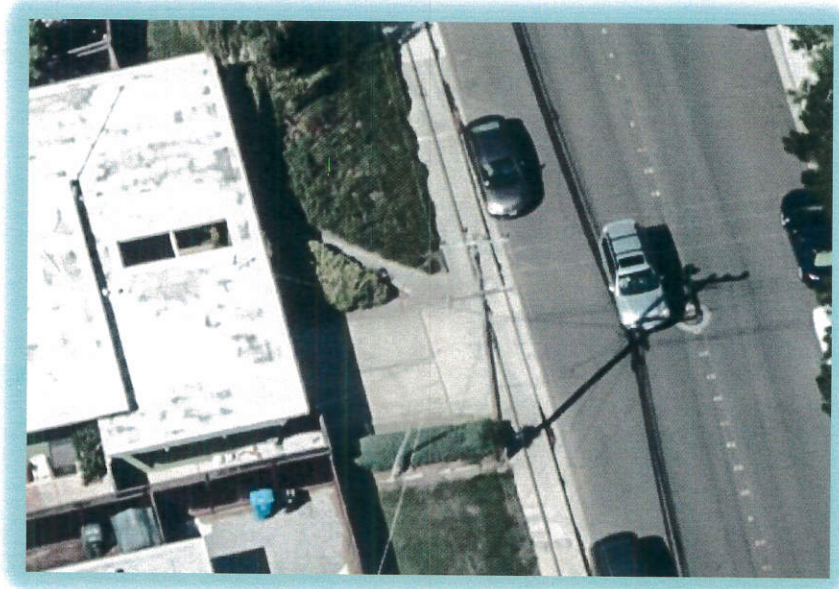
Site No. 438407
SF HIGHLANDS BAYWOOD PARK 003
Adjacent to 1852 Lexington Avenue
San Mateo, California 94002
San Mateo County
37° 31' 7.50" N, -122° 20' 49.29" W NAD83

EBI Project No. 6218000384
February 4, 2018

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San Mateo County
Planning Division



BLD 2018-00071

Prepared for:

Verizon Wireless
c/o Modus, Inc.

115 Sansome Street, 14th Floor
San Francisco, CA 94104

Prepared by:

 **EBI Consulting**
environmental | engineering | due diligence

TABLE OF CONTENTS

EXECUTIVE SUMMARY	2
1.0 INTRODUCTION	3
2.0 SITE DESCRIPTION	3
3.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS	3
4.0 WORST-CASE PREDICTIVE MODELING	6
5.0 MITIGATION/SITE CONTROL OPTIONS	7
6.0 SUMMARY AND CONCLUSIONS	7
7.0 LIMITATIONS	7

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 438407 located at Adjacent to 1852 Lexington Avenue 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.

At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately **10.80** percent of the FCC's general public limit (**2.16** 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 antennas (at two transmitting sectors) on a utility pole located at Adjacent to 1852 Lexington Avenue 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 Ampheno CUUT070X12Fxyz0	700	2	60	100°	6.95	48.71	30	30	46.71
	2100	2	60	340°	9.85				

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.

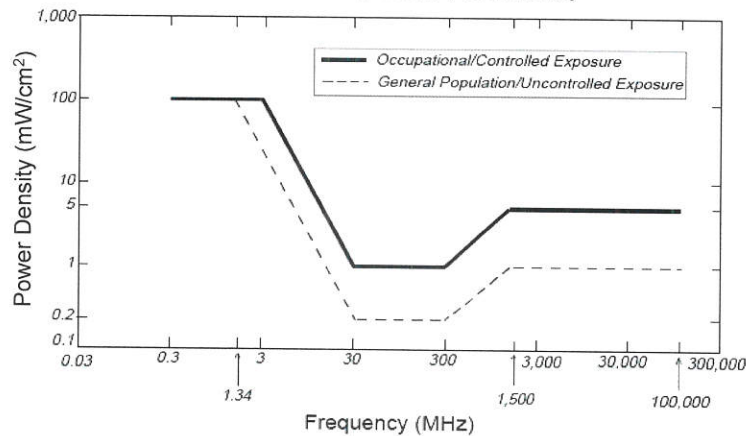
Table I: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
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				

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)
0.3-1.34	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)
 Plane-wave Equivalent Power Density



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 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 2-2 radio configuration for Sectors A and B, 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 10.80 percent of the FCC's general public limit (2.16 percent of the FCC's occupational limit). The composite exposure level from all carriers on this site is approximately 10.80 percent of the FCC's general public limit (2.16 percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna.

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 level. In order to alert people accessing the ground, a Caution sign is recommended for installation 12 feet below antenna bottom facing street.

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 438407 located at Adjacent to 1852 Lexington Avenue 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.

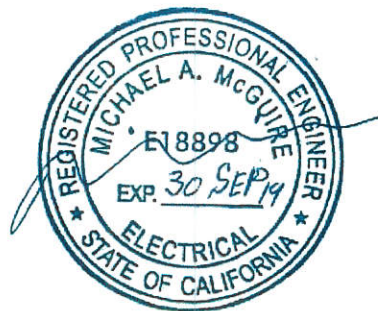
7.0 LIMITATIONS

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 4feb2018

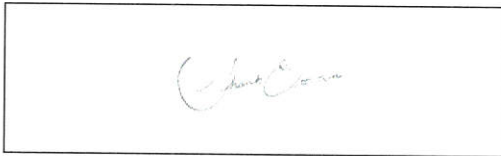
Michael McGuire
Electrical Engineer

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, Thanh Estevam, state that:

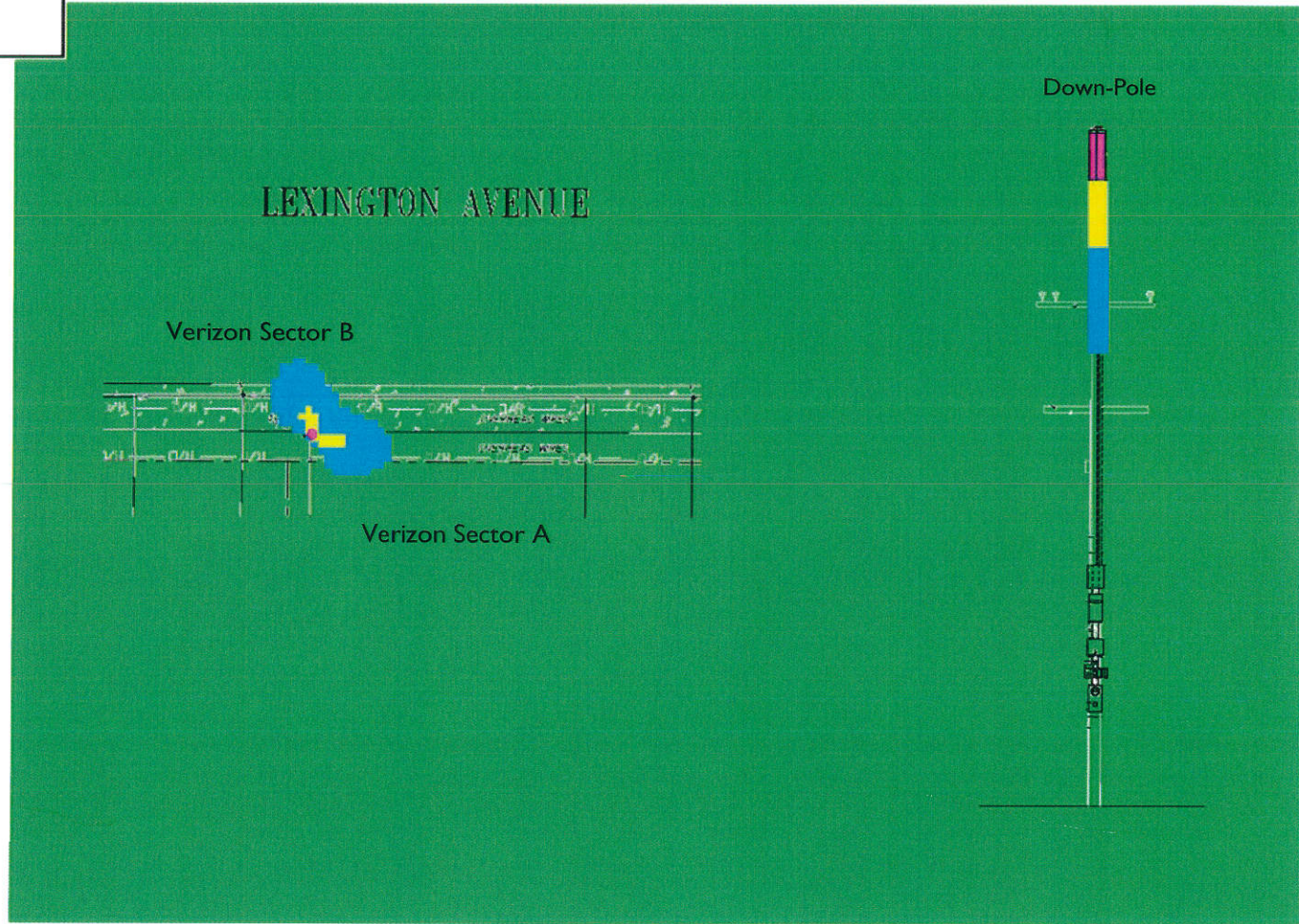
- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified "occupational" 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.





Appendix B
Radio Frequency Electromagnetic Energy
Safety / Signage Plans

% FCC Public Exposure Limit

	Exposure Level \geq 5,000
	$500 <$ Exposure Level \leq 5,000
	$100 <$ Exposure Level \leq 500
	Exposure Level \leq 100



-  Verizon Antennas
-  Other Carrier Antennas

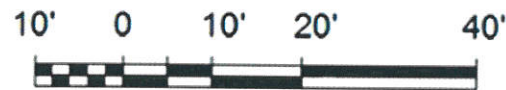
Roofview: Composite Exposure Levels

Facility Operator: Verizon Wireless
 Site Name: SF HIGHLANDS BAYWOOD PARK
 003
 Verizon Site Number: 438407
 Report Date: 02-04-18



% FCC Public Exposure Limit

-  Exposure Level > 5
-  Exposure Level ≤ 5



 Verizon Antennas

Overview: Verizon Exposure Levels

Facility Operator: Verizon Wireless

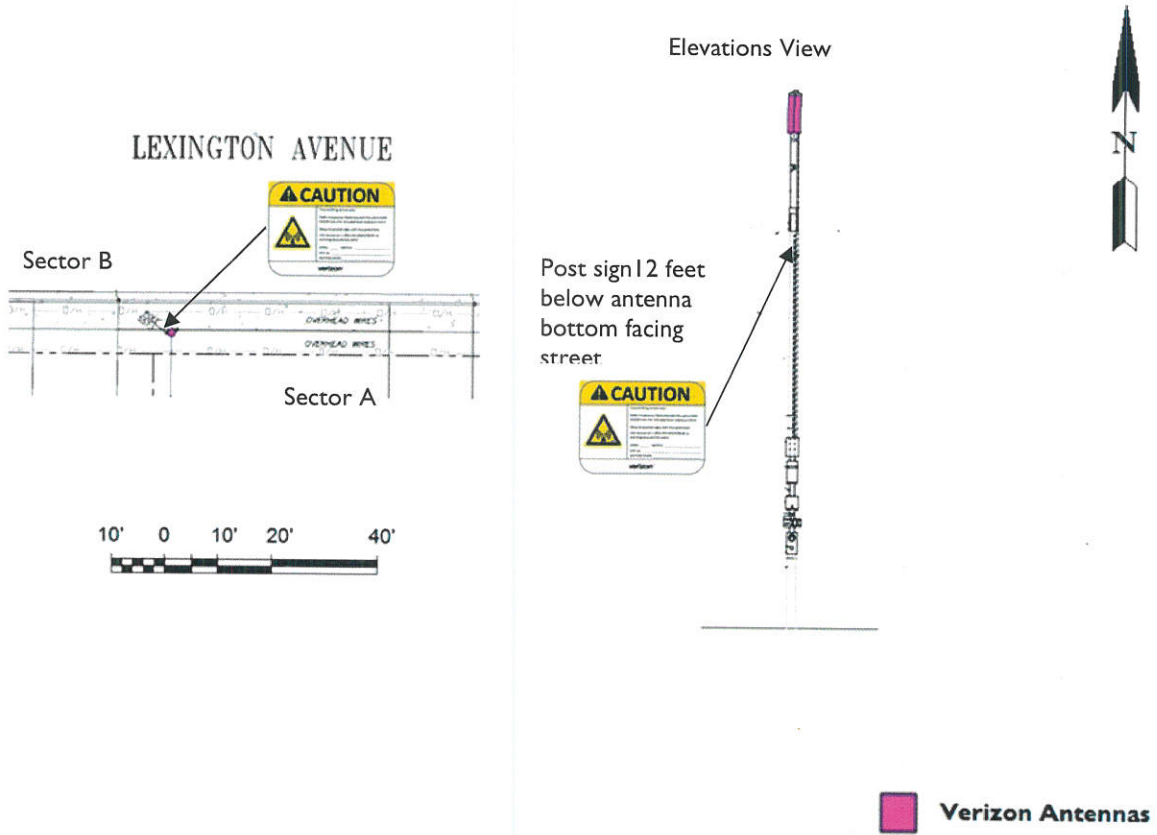
Site Name: SF HIGHLANDS BAYWOOD PARK
003


Verizon Site Number: 438407

Report Date: 02-04-18



Verizon Signage Plan



Sign Image	Description	Posting Instructions	Required Signage
	<p>Yellow Caution Sign</p> <p>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.</p>	<p>Securely post in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.</p>	<p>Post sign 12 feet below antenna bottom facing street</p>

Appendix C

Roofview® Export File

StartMapDefinition

Roof Max Y Roof Max X Map Max Y Map Max XY Offset X Offset Number of envelope
 120 120 140 140 20 20 1 \$AES81:\$E \$AES81:\$ETS200

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	Freq (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	46.71		4	6.95	70;100		ON•
VZW A1	LTE	2100	60	1	0	0	1			Amphenol	CUUT070X	30	30	46.71		4	9.85	70;100		ON•
VZW A1	LTE	700	60	1	0	0	1			Amphenol	CUUT070X	30	30	46.71		4	6.95	70;340		ON•
VZW A1	LTE	2100	60	1	0	0	1			Amphenol	CUUT070X	30	30	46.71		4	9.85	70;340		ON•

StartSymbolData

Sym	Map Marke	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	