



# SF STONE VALLEY 005

(NEAR) SMITH ROAD & OAK ROAD  
ALAMO, CA 94507

PSL #433513  
ORDER #31329439

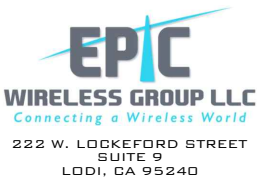


Verizon Wireless  
2785 Mitchell Drive, Suite 9  
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction  
Drawings

Drawing Phase:

SF STONE VALLEY 005  
(NEAR) SMITH ROAD & OAK ROAD  
ALAMO, CA 94507

PSL #433513

Site Name:

Professional Seal:

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Rev.	Date	Description
01	08/11/17	Constr. Dwgs 90%
02	08/24/17	Constr. Dwgs 90%
03	09/25/17	Constr. Dwgs 100%
04	05/02/18	Constr. Dwgs 100%
05	08/09/18	Constr. Dwgs 90%
06	08/16/18	Constr. Dwgs 100%

Project No.:

Date: 08/16/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

TITLE SHEET

Sheet Title:

T.1

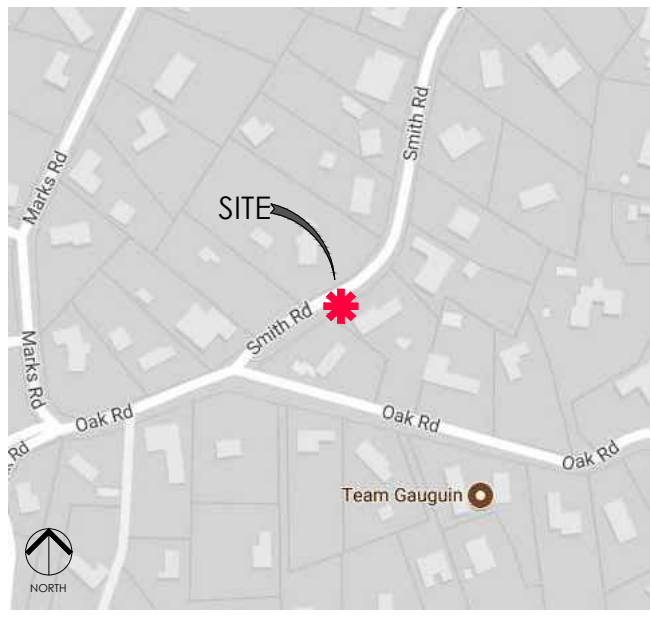
Sheet No.:

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## SITE INFORMATION

PSL #: 433513  
OWNER: PG&E  
245 MARKET STREET  
SAN FRANCISCO, CA 94110  
CONTACT: MARK ANDERSON  
TEL (925) 459-8052  
APPLICANT: VERIZON WIRELESS  
2785 MITCHELL DRIVE, SUITE 9  
WALNUT CREEK, CA 94598  
AGENT: EPIC WIRELESS  
222 W. LOCKEFORD STREET  
SUITE 9  
LODI, CA 95240  
TEL: (916) 781-5921  
APN ADJACENCY: (IFO) 196-100-005  
SITE ADDRESS: (NEAR) SMITH ROAD & OAK ROAD  
ALAMO, CA 94507  
COUNTY: CONTRA COSTA  
ZONING: PUBLIC ROW  
ZONING JURISDICTION: CITY OF CONTRA COSTA COUNTY  
DEPARTMENT OF PUBLIC WORKS

## VICINITY MAP



## PROJECT TEAM

### AGENT

Epic Wireless Group, Inc.  
222 W. Lockeford Street  
Suite 9  
Lodi, CA 95240  
Tel: (916) 781-5921

CONSTRUCTION MANAGER: ROB HERNANDEZ

cell: 916.216.7931  
email: rob.hernandez@epicwireless.net

LEASING & ZONING MGR: MARK LOBAUGH

cell: 916.203.4067  
email: mark.lobaugh@epicwireless.net

### ARCHITECT/ENGINEER

Meridian Management LLC  
785 Oak Grove Road E2  
Suite 251  
Concord, CA 94518  
www.meridian.management

PROJECT MANAGER: RODNEY BARNES

cell: 707.592.5924  
email: rodney@meridian.management

### CLIENT

Verizon Wireless  
2785 Mitchell Drive  
Suite 9  
Walnut Creek, CA 94598

### 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 11B, SECTION 1103B.



## PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE VERIZON WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON AN EXISTING WOOD POLE IN THE PUBLIC RIGHT-OF-WAY.

### SCOPE OF WORK

1. INSTALL NEW TELECOMMUNICATIONS EQUIPMENT BOXES ON AN EXISTING 37.9' HT. PG&E WOOD POLE.
2. POLE-MOUNTED EQUIPMENT TO BE INSTALLED ON A GO95 COMPLIANT STANDOFF BRACKET.
3. EQUIPMENT CONSISTS OF (1) 4' HT. CANTENNA ON POLETOP, (2) RRUS, (2) POWER SUPPLY UNITS, (2) DIPLEXERS, (1) DISCONNECT SWITCH, (1) FIBER DEMARC BOX, (1) EQUIPMENT SHROUD, AND (1) POLE-MOUNTED POWER METER.
4. PROVIDE POLE STEPS AS REQUIRED
5. ALL POLE EQUIPMENT TO BE PAINTED VALSPAR 'DEEP EARTH' COLOR.
6. POWER SERVICE FROM OVERHEAD POC

## DRAWING INDEX

SHEET NO:	SHEET TITLE
T.1	TITLE SHEET
C.1	SITE SURVEY
C.2	SITE SURVEY
A.1	OVERALL SITE PLAN
A.2	POLE PLAN ENLARGEMENTS
A.3	ELEVATIONS
A.4	ELEVATIONS
A.5	EQUIPMENT DETAILS
A.6	EQUIPMENT DETAILS
A.7	EQUIPMENT DETAILS
E.1	SINGLE LINE DIAGRAM, BUSS DIAGRAM, PANEL SCHEDULE
E.2	POLE GROUNDING, ELECTRICAL DETAILS
TC.1	SITE SPECIFIC VEHICLE TRAFFIC CONTROL PLAN

## ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

## CODE COMPLIANCE

CONSTRUCTION WORKS AND MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:

- CALIFORNIA CODE OF REGULATIONS
- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA ELECTRIC CODE
- 2016 GREEN CODE
- 2016 EDITION OF TITLE 24 ENERGY STANDARDS
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY / COUNTY ORDINANCES
- 2016 CALIFORNIA FIRE CODES WITH ALL LOCAL AMENDMENTS
- GO 95

## DRIVING DIRECTIONS

### DIRECTIONS FROM VERIZON WIRELESS RF MARKET OFFICE:

1. HEAD NORTH-EAST ON MITCHELL DR TOWARDS OAK GROVE RD
2. TURN RIGHT ONTO OAK GROVE RD
3. TURN RIGHT ONTO YGNACIO VALLEY RD
4. YGNACIO VALLEY RD TURNS RIGHT AND BECOMES HILLSIDE AVE
5. USE THE LEFT 2 LANES TO TURN LEFT ONTO THE INTERSTATE 680 S SLIP ROAD TO SAN JOSE
6. MERGE ONTO I-680 S
7. TAKE EXIT 42A FOR STONE VALLEY RD E
8. TURN RIGHT ONTO STONE VALLEY RD
9. TURN RIGHT ONTO SMITH RD

**SITE MAP**

**Map Labels:**

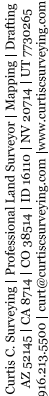
- BUILDING
- UTILITY POLE
- A.P.N. 196-092-007
- TREE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- A.P.N. 196-100-004
- WOODEN FENCE
- GRAPHIC SCALE (IN FEET) 1 inch = 10 ft.
- SMITH ROAD
- DRIVEWAY
- WOODEN FENCE
- A.P.N. 196-092-008
- DRIVEWAY
- STORM DRAIN MANHOLE
- SIGN
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- A.P.N. 196-100-006
- WOODEN FENCE
- BUILDING
- A.P.N. 196-100-005
- LATITUDE & LONGITUDE TAKEN HERE  
37°50'23.13" (NAD 83)  
121°59'33.39" (NAD 83)

**LEGEND**

- PROPERTY LINE
- FENCE LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- OVERHEAD UTILITY LINE

A BOUNDARY SURVEY WAS NOT PERFORMED AT THIS TIME. RIGHT-OF-WAY WIDTHS AND PROPERTY LINE LOCATIONS SHOWN HEREON ARE APPROXIMATE AND BASED ON A COMBINATION OF VARIOUS MAPS AND FIELD OBSERVATIONS FOR GRAPHICAL PURPOSES ONLY.

SURVEYOR ASSUMES NO RESPONSIBILITY TO CONTACT U.S.A. OR ANY OTHER AGENCIES PRIOR TO CONSTRUCTION. THE LOCATION OF EXISTING UTILITIES SHOWN HEREON MAY NOT BE ACCURATE AND ALL EXISTING UTILITIES MAY NOT BE SHOWN. CONTACT U.S.A. PRIOR TO CONSTRUCTION.

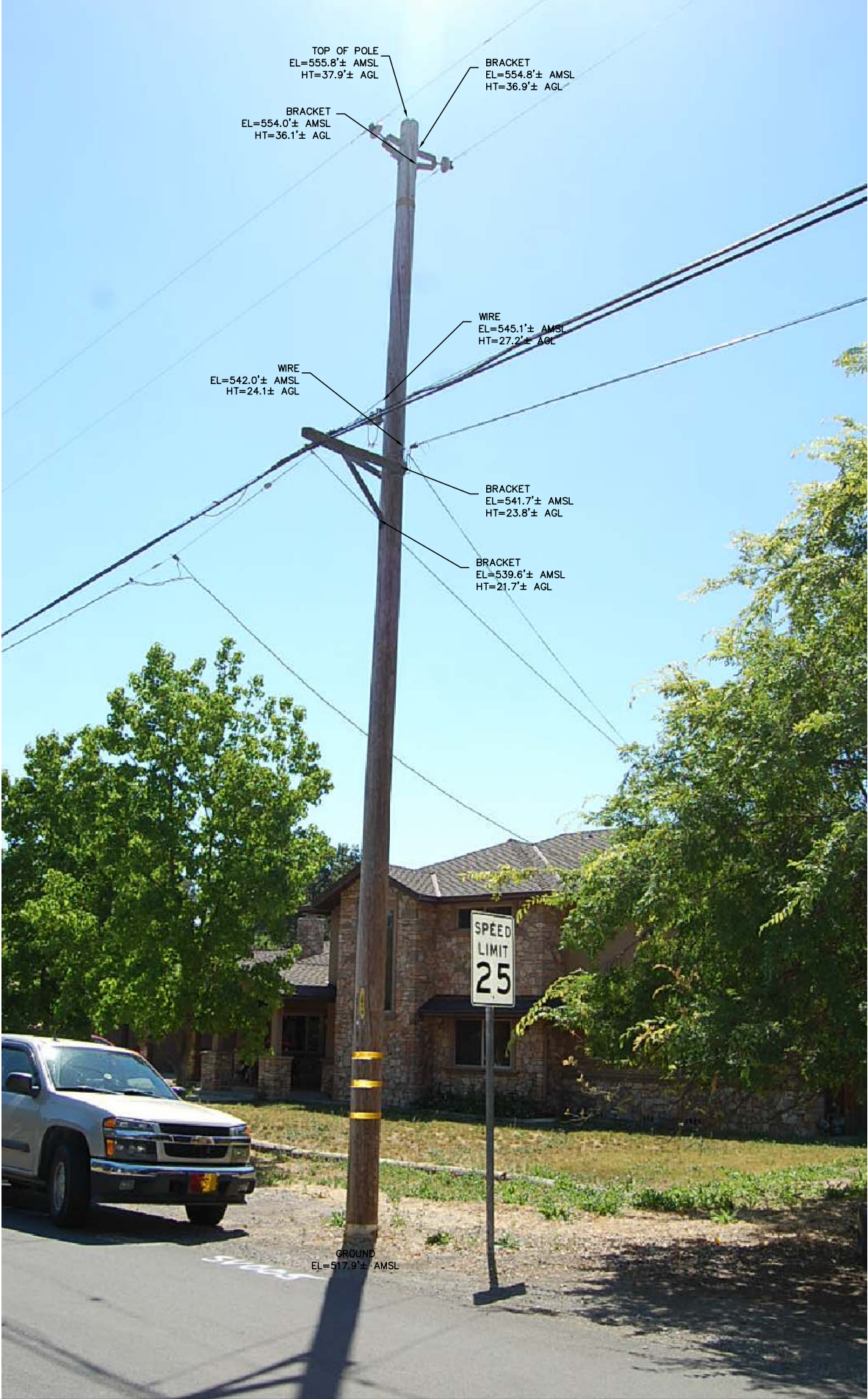


433513  
STONE VALLEY 005  
NEAR SMITH RD. & OAK RD.  
DANVILLE, CA

C-1

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AND ALL EXISTING UTILITIES MAY NOT BE SHOWN.  
CONTACT U.S.A. PRIOR TO CONSTRUCTION.

BOUNDARY SHOWN IS BASED ON RECORD INFORMATION AND FOUND MONUMENTATION.  
THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES SHOWN ARE APPROXIMATE.



LEGEND

AGL  
AMSL

ABOVE GROUND LEVEL  
ABOVE MEAN SEA LEVEL



Curtis C. Surveying | Professional Land Surveyor | Mapping | Drafting  
AZ 52434 | CA 8744 | CO 3854 | ID 1610 | NY 20724 | UT 732065  
916.213.5500 | curt@curtissurveying.com | www.curtissurveying.com

REVISIONS

NO.	DATE	DESCRIPTION
1	08/04/17	ISSUED FOR REVIEW

verizon

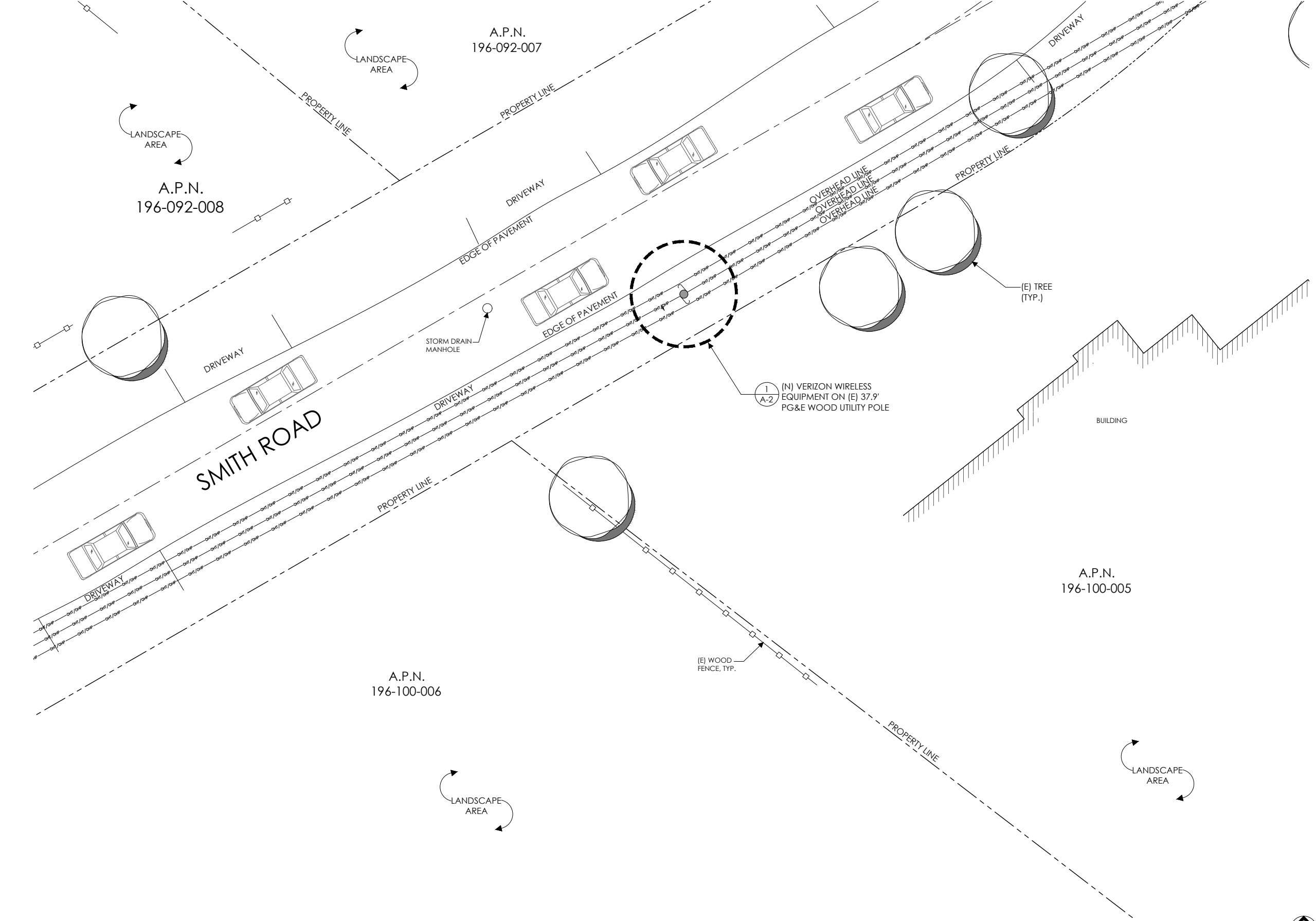
VERIZON WIRELESS  
2785 MITCHELL DRIVE, BLDG 9  
WALNUT CREEK, CA. 94598

433513  
STONE VALLEY 005  
NEAR SMITH RD. & OAK RD.  
DANVILLE, CA

DRAWN:      DATE: 08/08/17  
JOB NO.      17126  
SHEET NO.

C-2






Verizon Wireless  
2785 Mitchell Drive, Suite 9  
Walnut Creek, CA 94598

Client:



Meridian Management LLC  
785 Oak Grove Road E2  
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1 707.592.5924  
www.meridian.management

Project Architect:



EPIC  
WIRELESS GROUP LLC  
Connecting a Wireless World  
222 W. LOCKEFORD STREET  
SUITE 9  
LODI, CA 95240

Site Agent:

100% Construction  
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Designed By: JG Checked: RB

OVERALL SITE  
PLAN

Sheet Title:

A.1

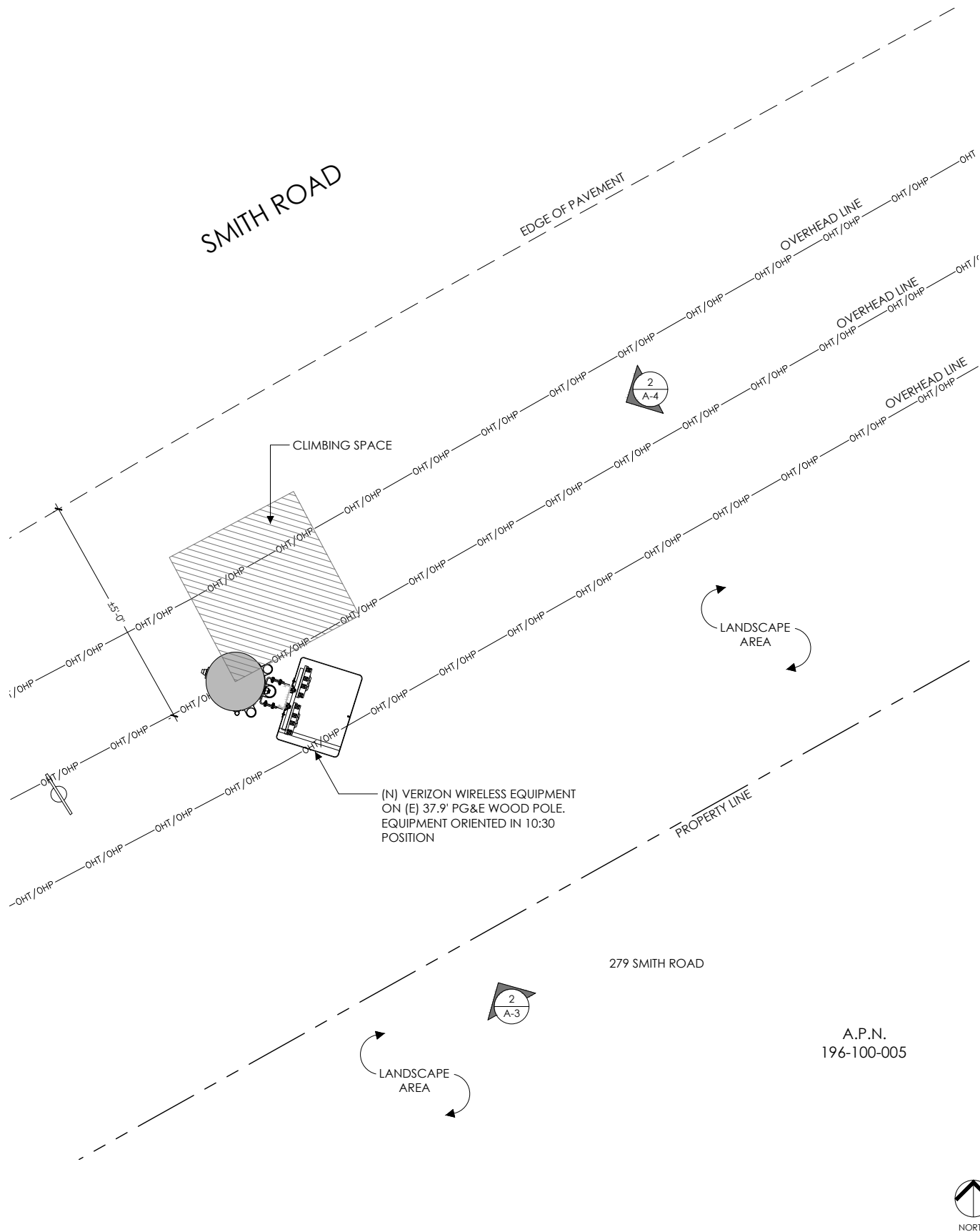
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(N) VERIZON EQUIPMENT TO BE MOUNTED IN 10:30 ORIENTATION. CLIMBING SPACE BETWEEN 6:00 & 9:00. POLE STEPS REQUIRED FROM 8.5' TO COMMUNICATIONS ZONE. STEPS SHOULD BE USABLE WHEN INSTALLED WITHIN CLIMBING SPACE

EQUIPMENT SYSTEM:  
ALL NEW POLE COMPONENTS NOT SHOP PAINTED SHOULD BE FIELD PAINTED VALSPAR 'DEEP EARTH' COLOR

NEW CONDUIT FOR POWER/TELCO:  
(1) 2" CONDUIT FOR POWER  
(1) 2" CONDUIT FOR FIBER  
(1) 3" CONDUIT FOR COAX  
(1) 1" CONDUIT FOR GROUND



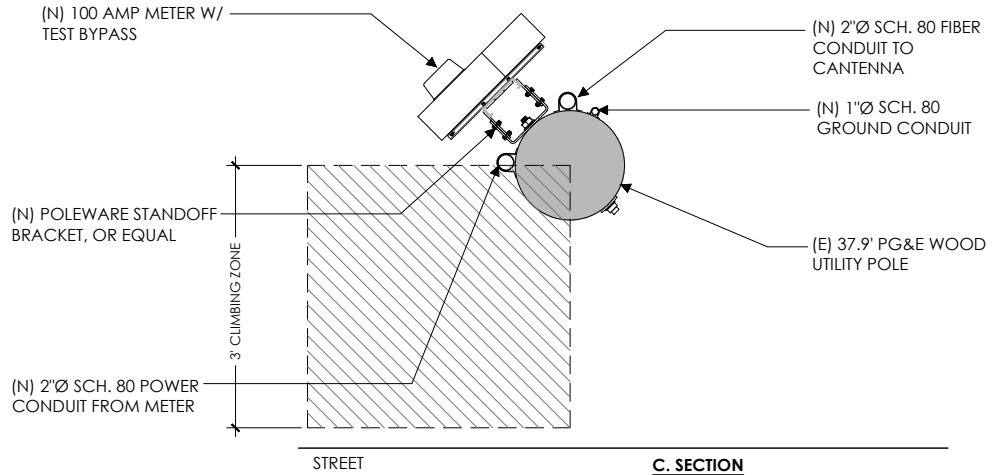
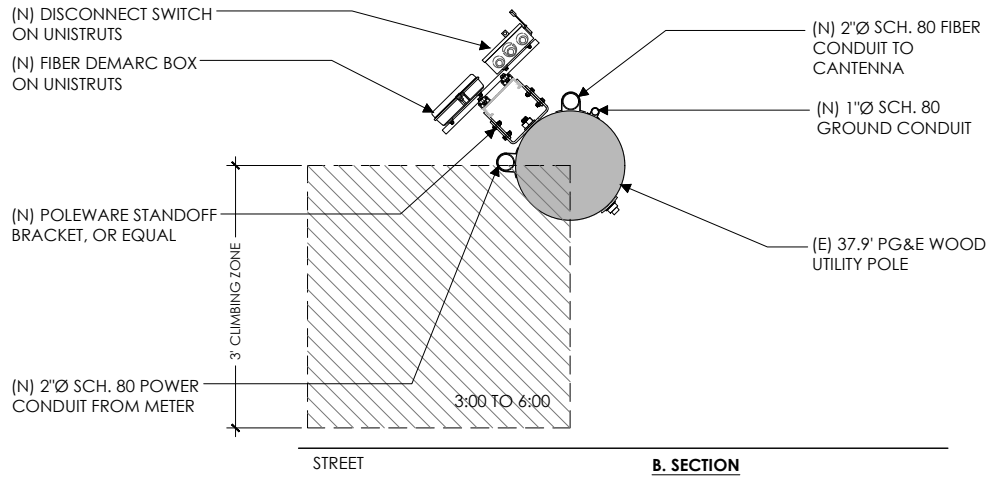
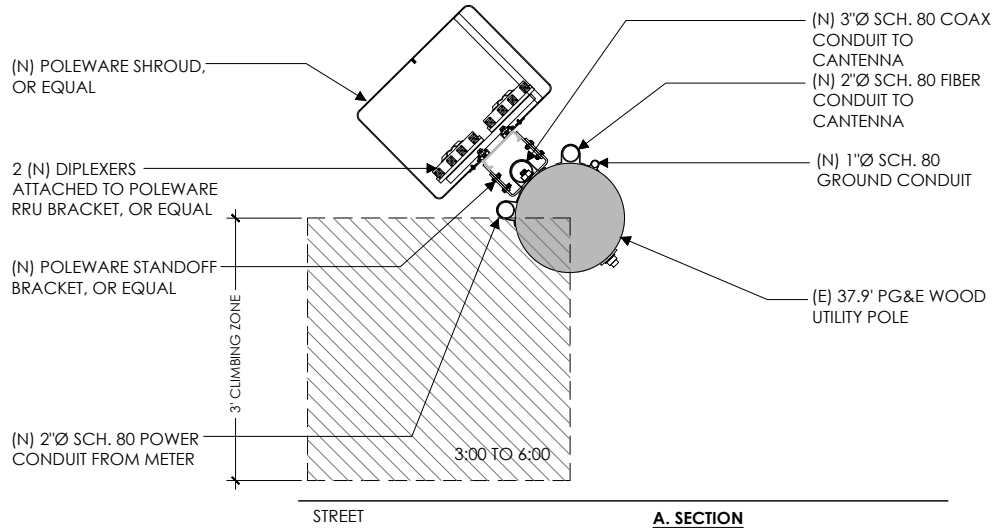
POLE PLAN ENLARGEMENT

0 6" 1' 2' 3'

SCALE  
3/4" = 1'-0"

1

POLE SECTIONS



C. SECTION

1' 6" 0 6" 1'

SCALE  
1" = 1'-0"

2

verizon

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www.meridian.management

Project Architect:

EPIC  
WIRELESS GROUP LLC  
Connecting a Wireless World  
222 W. LOCKEFORD STREET  
SUITE 9  
LODI, CA 95240

Site Agent:

100% Construction  
Drawings

(E) LIGHT POLE  
Drawing Phase:

SF STONE VALLEY 005  
(NEAR) SMITH ROAD & OAK ROAD  
ALAMO, CA 94507

PSL #433513

Site Name:

NEW CHARLES SMALL CELL  
CABINET

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Project No.:

Date: 08/16/18

Job No.:

Scale: AS SHOWN

CAD File:

Designed By: JG

Checked: RB

POLE PLAN  
ENLARGEMENTS

Sheet Title:

A.2

Sheet No.:

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Walnut Creek, CA 94598

Client:

MM

Meridian Management LLC  
785 Oak Grove Road E2  
Suite 251  
Concord, CA 94518  
1 707.592.5924  
www.meridianmanagement.com

Project Architect:

EPIC

WIRELESS GROUP LLC  
Connecting a Wireless World  
222 W. LOCKEFORD STREET  
SUITE 9  
LODI, CA 95240

Site Agent:

100% Construction  
Drawings

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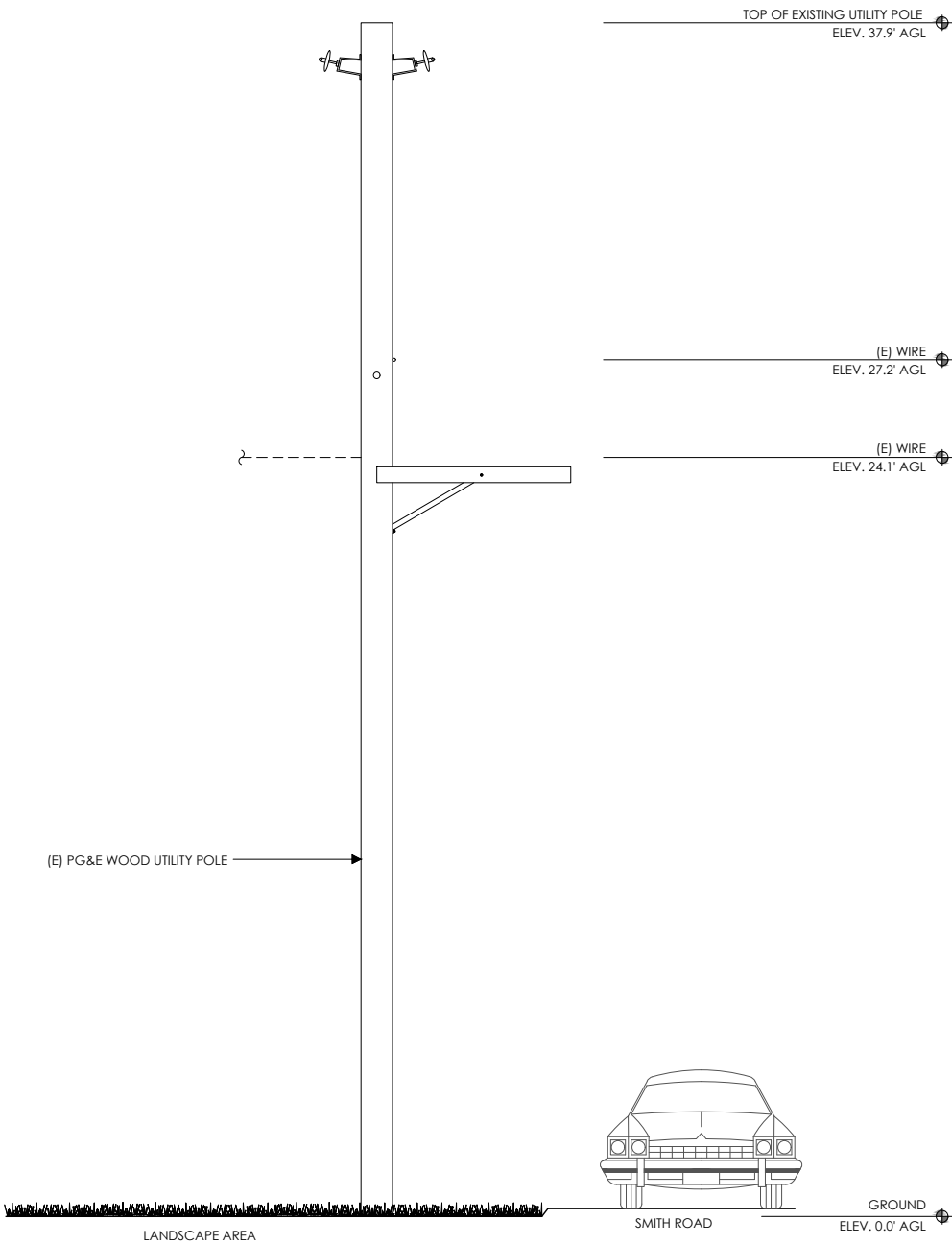
ELEVATIONS

Sheet Title:

A.3

Sheet No.:

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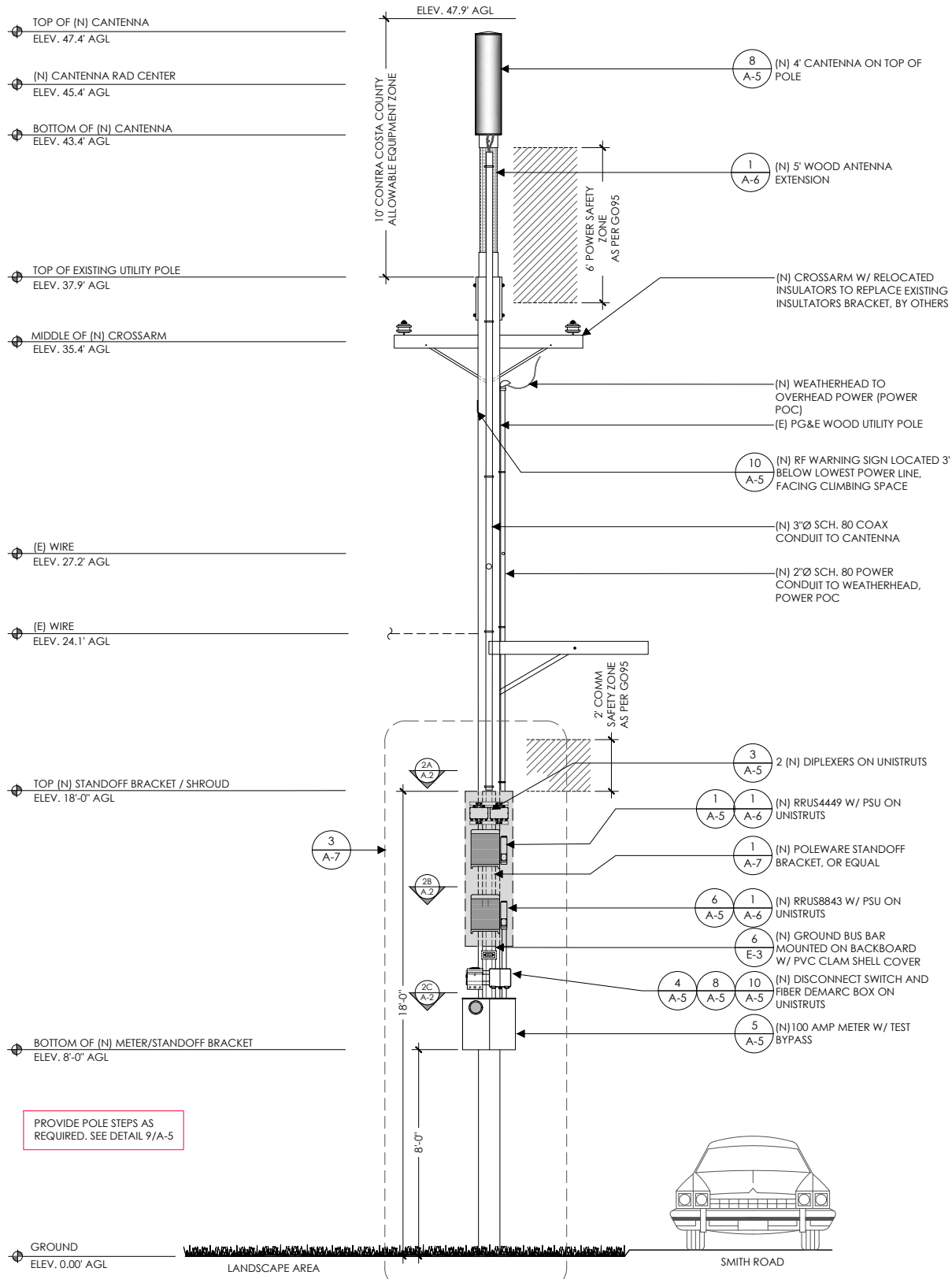


SOUTHEAST ELEVATION - EXISTING



SCALE  
3/8" = 1'-0"

1

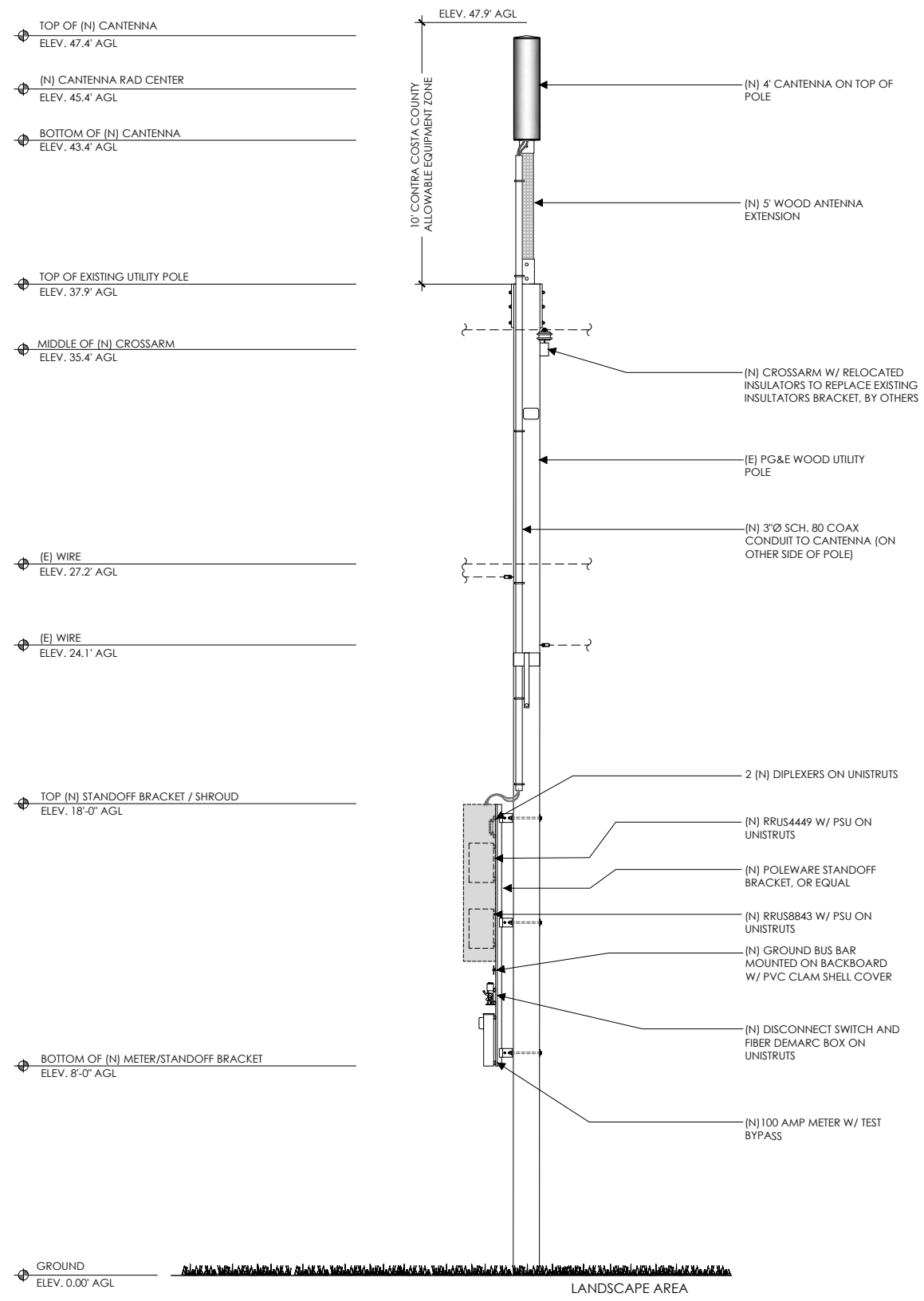
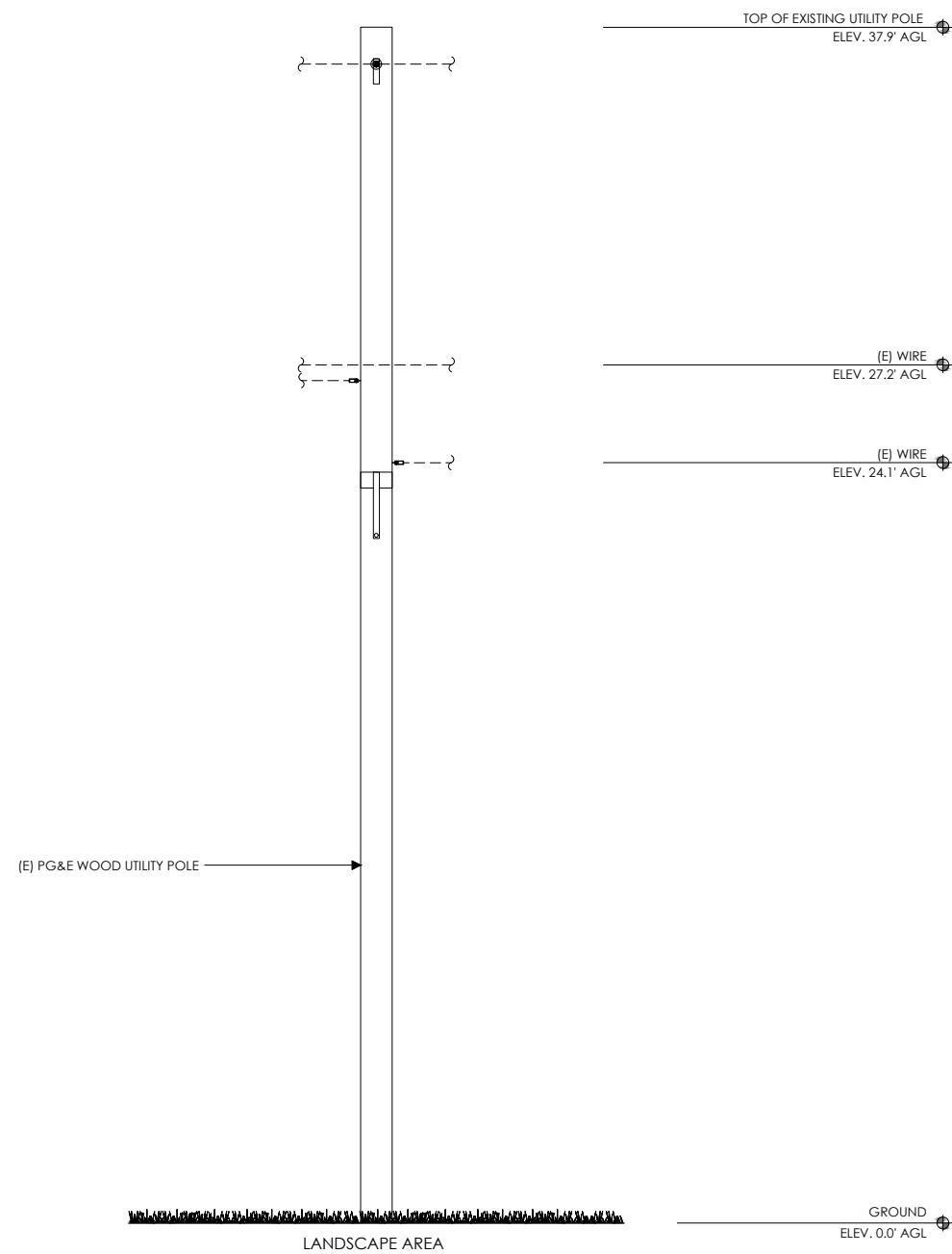


SOUTHEAST ELEVATION - PROPOSED



SCALE  
3/8" = 1'-0"

2



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Project Architect:



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## 100% Construction Drawings

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Designed By: JG      Checked: RL

## ELEVATIONS

Sheet Title:

## A.4

Sheet No.:

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UNIT: ERICSSON RRUS4449 B5 B13 W/  
PROTRUDING ITEMS

HEIGHT: 18 INCHES

WIDTH: 13.2 INCHES

LENGTH: 9.4 INCHES

WEIGHT: 70 LBS (EXCLUDES MOUNTING HARDWARE)



UNIT: ERICSSON RRUS8843 W/  
PROTRUDING ITEMS

HEIGHT: 18 INCHES

WIDTH: 13.2 INCHES

DEPTH: 11.3 INCHES

WEIGHT: 75 LBS





STEP:  
WEIGHT PER 100:  
MANUFACTURER:  
  
MODEL #:  
  
DESCRIPTION:

POLE 1/2 X 10 INCH GALVANIZED  
99 LBS  
AERIAL SERVICE COMPANY, INC.  
1-800-256-5186  
http://www.linemen-tools.com/  
J1118  
  
POLE STEPS ARE USED ON WOOD POLES WHERE  
FREQUENT ACCESS TO POLE MOUNTED EQUIPMENT  
IS REQUIRED. FLAT DRIVING SURFACE AND SHARP  
POINT EASE INSTALLATION. FETTER-DRIVE THREAD  
PERMITS REMOVAL WITH A WRENCH. HOT-DIPPED  
GALVANIZED FOR CORROSION RESISTANCE.  
NOTCHED MARK ON STEP INDICATES PROPER  
DRIVING DEPTH.



RRUS4449

1

RRUS8843

6

POLE STEPS

9



3/8" DIA BRASS OR STAINLESS  
STEEL STUD BOLTS, NUTS, &  
WASHERS-2 PER BOX. RECESS  
BOLT IN COVER.

PLAN

TOP FLUSH WITH FINISH  
GRADE

CLEAN CRUSHED DRAIN  
ROCK SUMP

MIN. 3" CLR.  
ALL AROUND

SECTION A-A

PULL BOX MINIMUM DIMENSION TABLE				
PULL BOX	CONCRETE BOX		COVER (PCC ONLY)	
	LO	WO	L	W
	30"	17"	25-3/8"	13-1/4"

UNIT: FIBER DEMARC  
ENCLOSURE BOX

HEIGHT: 8.54 INCHES

WIDTH: 10 INCHES

DEPTH: 2.88 INCHES



HEIGHT: 48.0 INCHES

DIAMETER: 14.6 INCHES

WEIGHT: 38.1 LBS (WITHOUT  
MOUNTING BRACKET)





PULL BOX (IF REQUIRED)

2

FIBER DEMARC BOX

4

CANTENNA

7

DISCONNECT SWITCH

SCALE  
NOT TO SCALE

10



HEIGHT: 8.31 INCHES

WIDTH: 2.48 INCHES

DEPTH: 7.0 INCHES

WEIGHT: 4.4 LBS

UNIT: 100 AMP METER W/ TEST  
BYPASS

HEIGHT: 24 INCHES

WIDTH: 12 INCHES

DEPTH: 4-5/8 INCHES



NOTE:  
NEW PHENOLIC SIGN ATTACHED  
TO INSIDE PANEL

NORMAL SHUT-DOWN PROTOCOLS:

1. Call 800-264-6620 NOC 24 HRS prior to schedule a shutdown day and time.

2. Give NOC the Node number \_\_\_\_\_.

3. On scheduled day of shutdown, pull the disconnect handle to the "OFF" position.

4. Call NOC when work is completed.

EMERGENCY SHUT-DOWN PROTOCOLS:

1. Call 800-264-6620 NOC immediately.

2. Give NOC the Node number \_\_\_\_\_.

3. Pull the disconnect handle to the "OFF" position.

4. Call NOC when work is completed.

CONTRACTOR NOTE:  
SITE ID WILL BE SITE ID, MARKET ID,  
SITE #, AND SITE NAME

NEMA 3R RAIN COVER

OUTSIDE PANEL DOOR  
SHOWING DISCONNECT  
SWITCH

UTILITY COMPANY POWER  
DISCONNECT SWITCH

OUTSIDE PANEL  
DOOR SHOWING  
DISCONNECT  
SWITCH ID ON  
PLAQUE

DISC. OR PANEL DOOR W/  
LATCH-LOOP (LOCKABLE)



ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE 3'  
BELOW ANTENNA

SIGN PLACEMENT:  
AFFIX TO THE STRUCTURE 3-4" BELOW THE COMMERCIAL RF ANTENNA(S) OR  
3' BELOW LOWEST POWER WIRE

SIGN COLOR: YELLOW

CONTRACTOR NOTE:  
SITE ID WILL BE SITE ID, MARKET ID, SITE #, AND SITE NAME

DIPLEXER

3

METER


5

DISCONNECT SIGNAGE

8

RF WARNING SIGNAGE

11



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EQUIPMENT  
DETAILS

Sheet Title:

A.5

Sheet No.:

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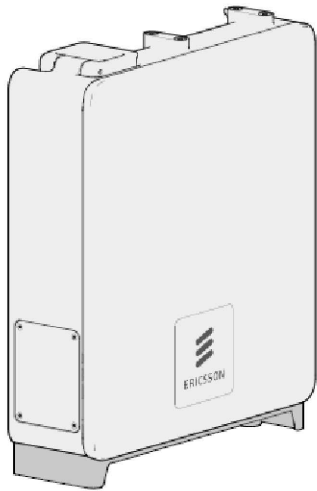
MODEL: ERICSSON POWER 6302

HEIGHT: 12.99 INCHES

WIDTH: 11.42 INCHES

DEPTH: 3.90 INCHES

WEIGHT: 22.1 LBS



POWER SUPPLY UNIT (PSU)

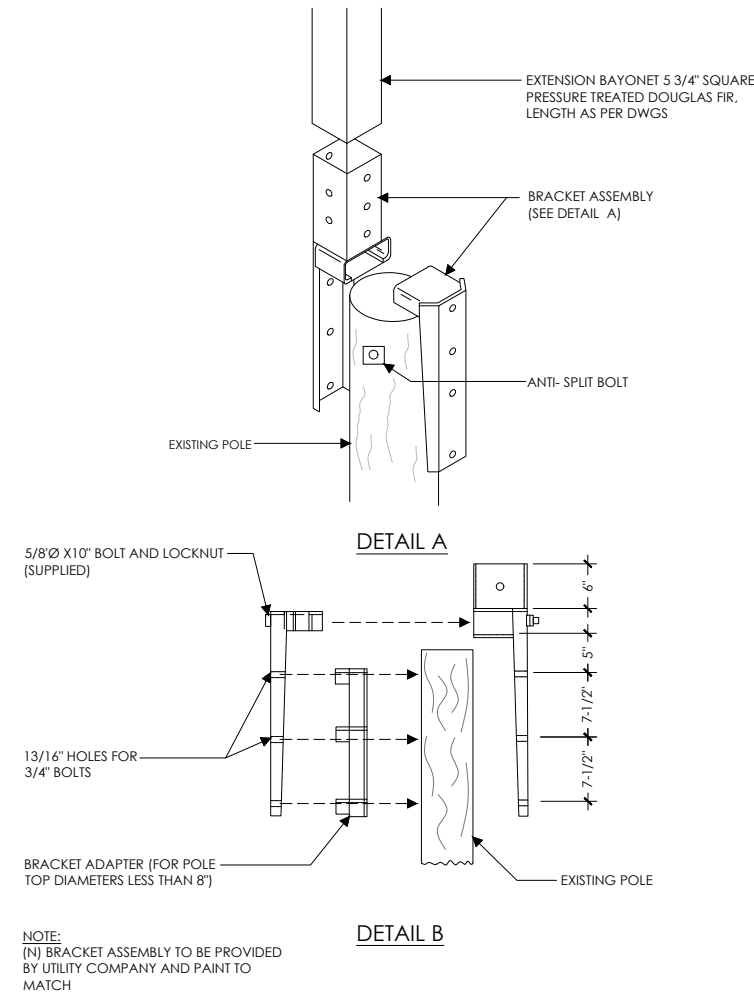
1

NOT USED

3

NOT USED

4

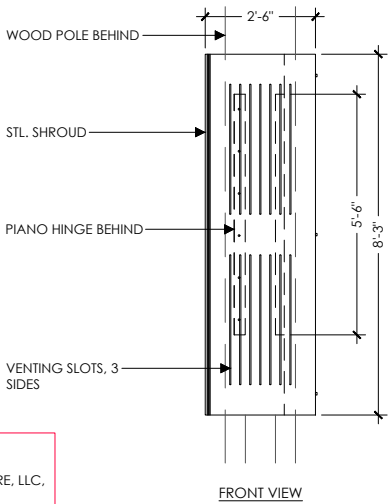
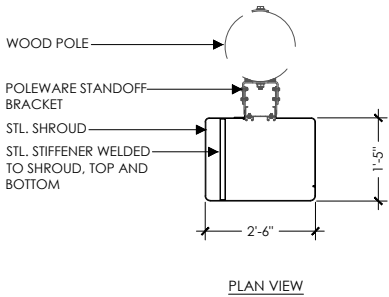


POLETOP WOOD EXTENSION AND BRACKET

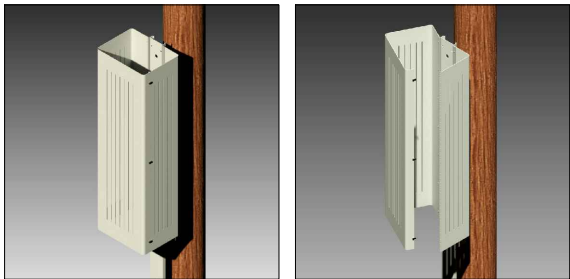
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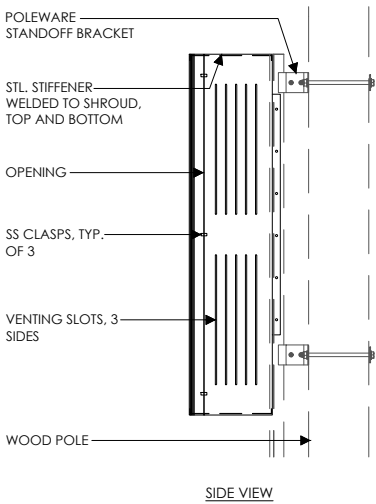
EQUIPMENT SHROUD



- NOTE:
1. RRU SHROUD MODEL #PW-RRS-072L-SP-ST AS MFG. BY POLEWARE, LLC, (475) 215-5119, OR EQUAL
  2. ALL COMPONENTS TO BE SHOP PRIMED PAINTED
  3. UNISTRUT COMPONENTS TO BE MFG BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., ITASCA IL, 60143, (800) 468-9510.
  4. CUSTOMER TO SPECIFY SHROUD HEIGHT AT TIME OF ORDERING.



ISO VIEWS



verizon

Verizon Wireless  
2785 Mitchell Drive, Suite 9  
Walnut Creek, CA 94598

Client:

Meridian Management LLC  
785 Oak Grove Road E2  
Suite 251  
Concord, CA 94518  
1 707.592.5924  
www.meridian.management

Project Architect:

**EPIC**  
WIRELESS GROUP LLC  
Connecting a Wireless World  
222 W. LOCKEFORD STREET  
SUITE 9  
Lodi, CA 95240

Site Agent:

100% Construction  
Drawings

Drawing Phase:

SF STONE VALLEY 005  
(NEAR) SMITH ROAD & OAK ROAD  
ALAMO, CA 94507

PSL #433513

Site Name:

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CAD File:

Designed By: JG

Checked: RB

EQUIPMENT  
DETAILS

Sheet Title:

A.6

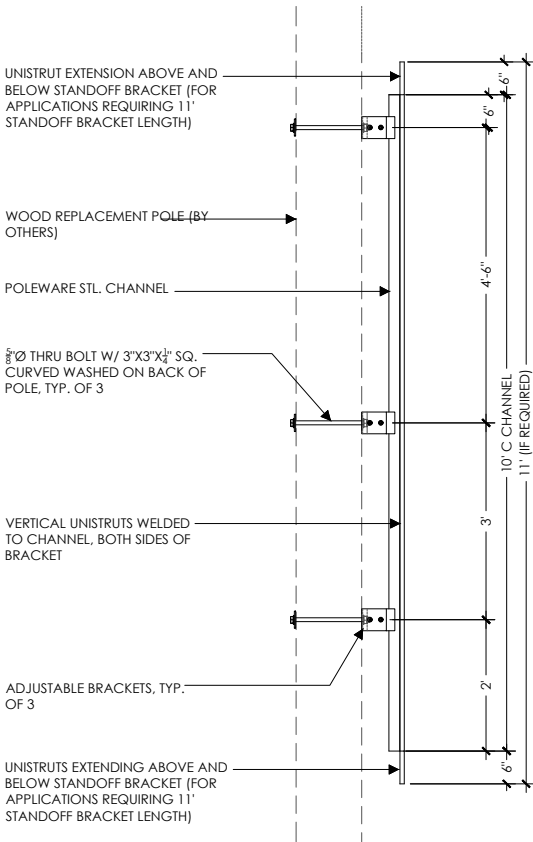
Sheet No.:

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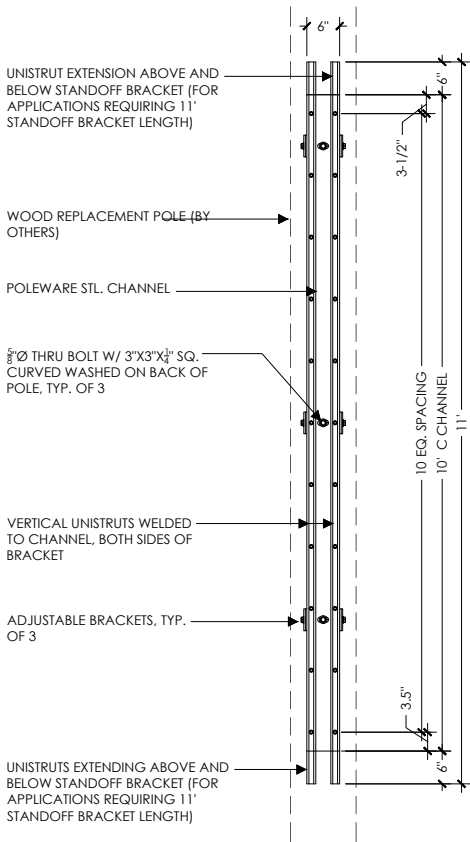
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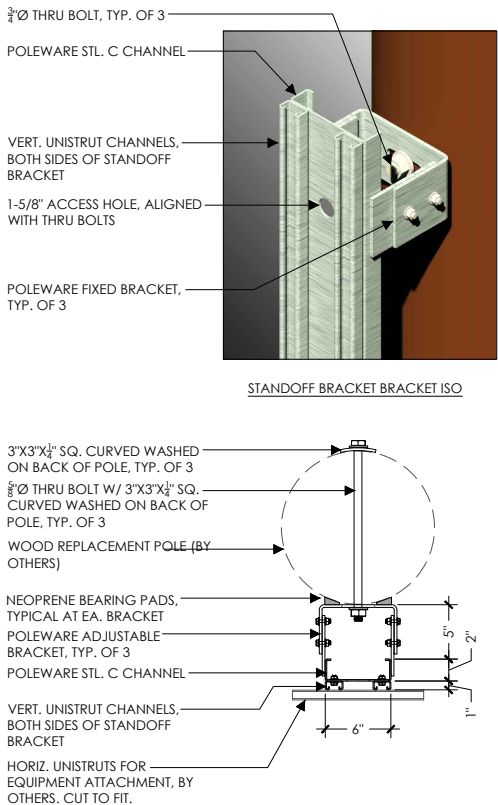
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STANDOFF BRACKET SIDE ELEVATION



STANDOFF BRACKET FRONT ELEVATION



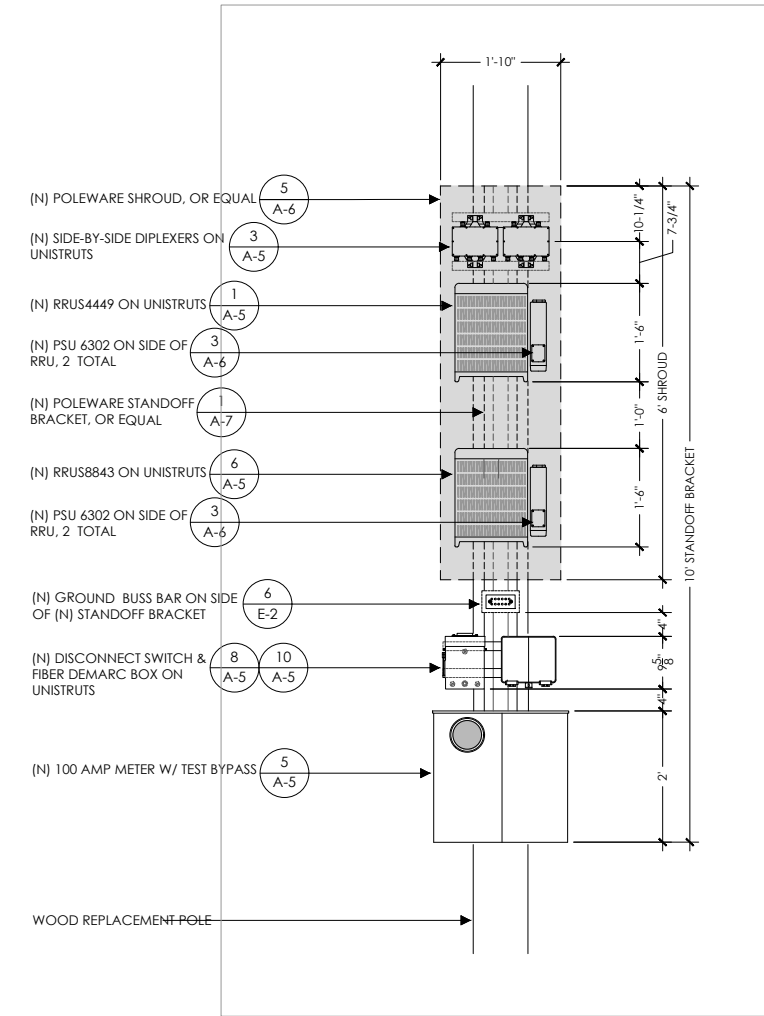
STANDOFF BRACKET PLAN

NOTE:

1. STANDOFF BRACKET MODEL #PW-SOB-120L-SP-ST AS MFG. BY POLEWARE, LLC, (475) 215-5119, OR EQUAL
2. LENGTH VARIES. CUSTOMER TO SPECIFY BRACKET LENGTH AT TIME OF ORDERING
3. ALL COMPONENTS TO BE SHOP PRIMED PAINTED
4. UNISTRUT COMPONENTS TO BE MFG BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., ITASCA IL, 60143, (800) 468-9510.
5. HORIZONTAL UNISTRUTS FOR EQUIPMENT INSTALLATION NOT INCLUDED
6. NEOPRENE PADS AND ALL HARDWARE INCLUDED
7. ALLOW 2-3 WEEKS FOR FABRICATION
8. PATENT PENDING

NOT USED

2

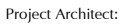




1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.

1. PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
2. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE 24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MARSHALL. ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWRITERS LABORATORY (UL) OR AN APPROVED TESTING LABORATORY. PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS & EQUIPMENT FOR THE ENTIRE INSTALLATION & UNIT COMPLETION OF WORK. ERECT & MAINTAIN APPROVED & SUITABLE BARRIERS, PROTECTIVE DEVICES & WARNING SIGNS, BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS & WARNINGS.
4. COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.
5. ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE PART OF THIS CONTRACT.
6. FINALIZE ALL ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETAILS, COORDINATION OF THE INSTALLATION & PAYMENT OF ACCRUED CHARGES WITH LOCAL POWER COMPANY, VERIFY LOCATION FOR FACILITIES & DETAILS WITH POWER UTILITY. IN ADDITION TO THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS, WORK SHALL COMPLY WITH CONSTRUCTION STANDARDS & SERVICE REQUIREMENTS OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES.
7. ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THWN" CONDUCTORS LARGER AND #6 AWG MAY BE TYPE "THWN" OR "TWN".
8. PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT.
9. UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, S\, DUAL 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.
10. 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.

1. SUBCONTRACTOR SHALL PROVIDE DIST. PANEL AND BREAKERS FOR POWER TO THE PSU FOR EACH RRU.
2. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
3. SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
4. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



Drawing Phase:

PSL #433513

Site Name:

Professional Seal:

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Date: 08/16/18 Job No.:

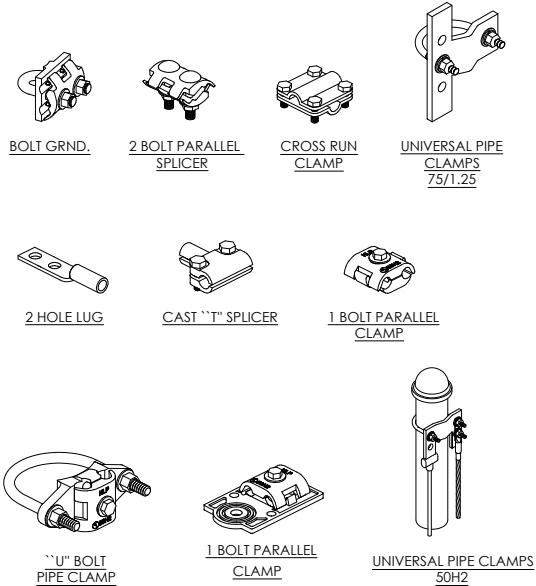
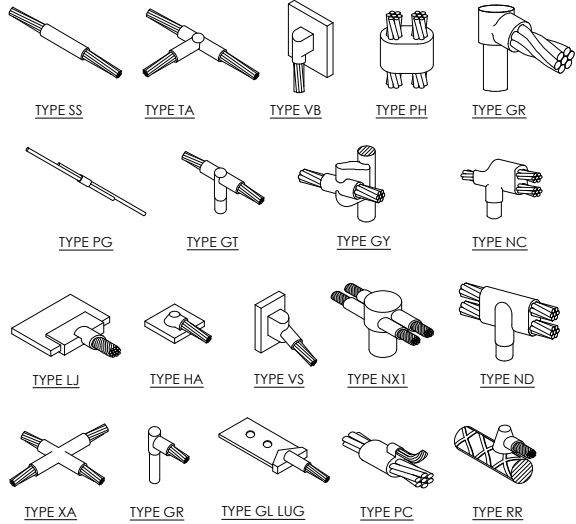
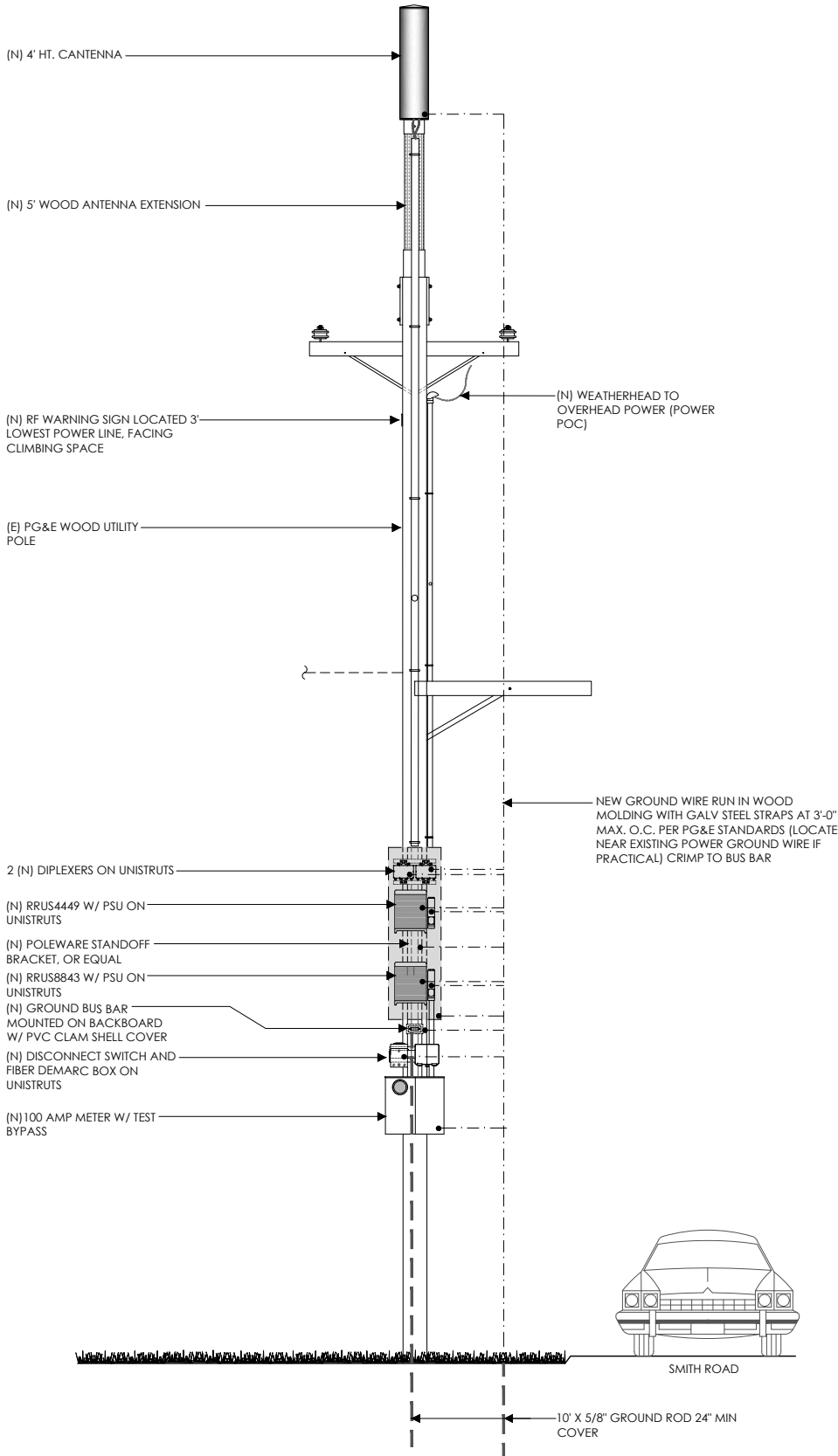
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Designed By: JG      Checked: RE

SINGLE LINE DIAGRAM  
BUSS DIAGRAM  
PANEL SCHEDULE

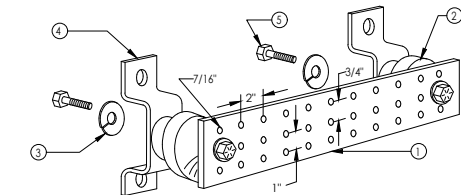
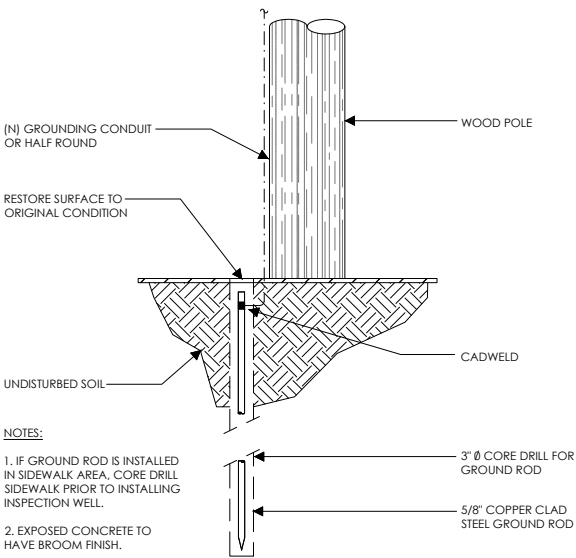
Sheet Title

Sheet No.:



EXOTHERMIC WELD CONNECTION

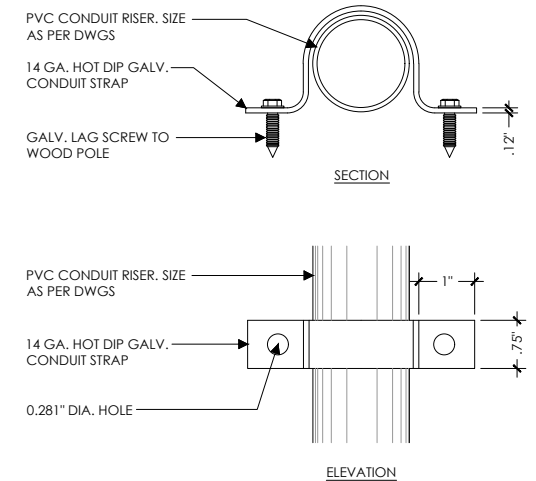
MECHANICAL CONNECTION



- NOTES:
1. GALVANIZED STEEL 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.

POLE GROUNDING ROD

BUSS BAR



POLE GROUNDING RISER DIAGRAM (TYP.)

NOT USED

POLE CONDUIT STRAP

verizon

Verizon Wireless  
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Walnut Creek, CA 94598

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785 Oak Grove Road E2  
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Project Architect:

EPIC  
WIRELESS GROUP LLC  
Connecting a Wireless World  
222 W. LOCKEFORD STREET  
SUITE 9  
LODI, CA 95240

Site Agent:

100% Construction  
Drawings

Drawing Phase:

SF STONE VALLEY 005  
(NEAR) SMITH ROAD & OAK ROAD  
ALAMO, CA 94507

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Designed By: JG Checked: RB

ELECTRICAL DETAILS

Sheet Title:

E.2

Sheet No.:

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
PLAN NOTES:

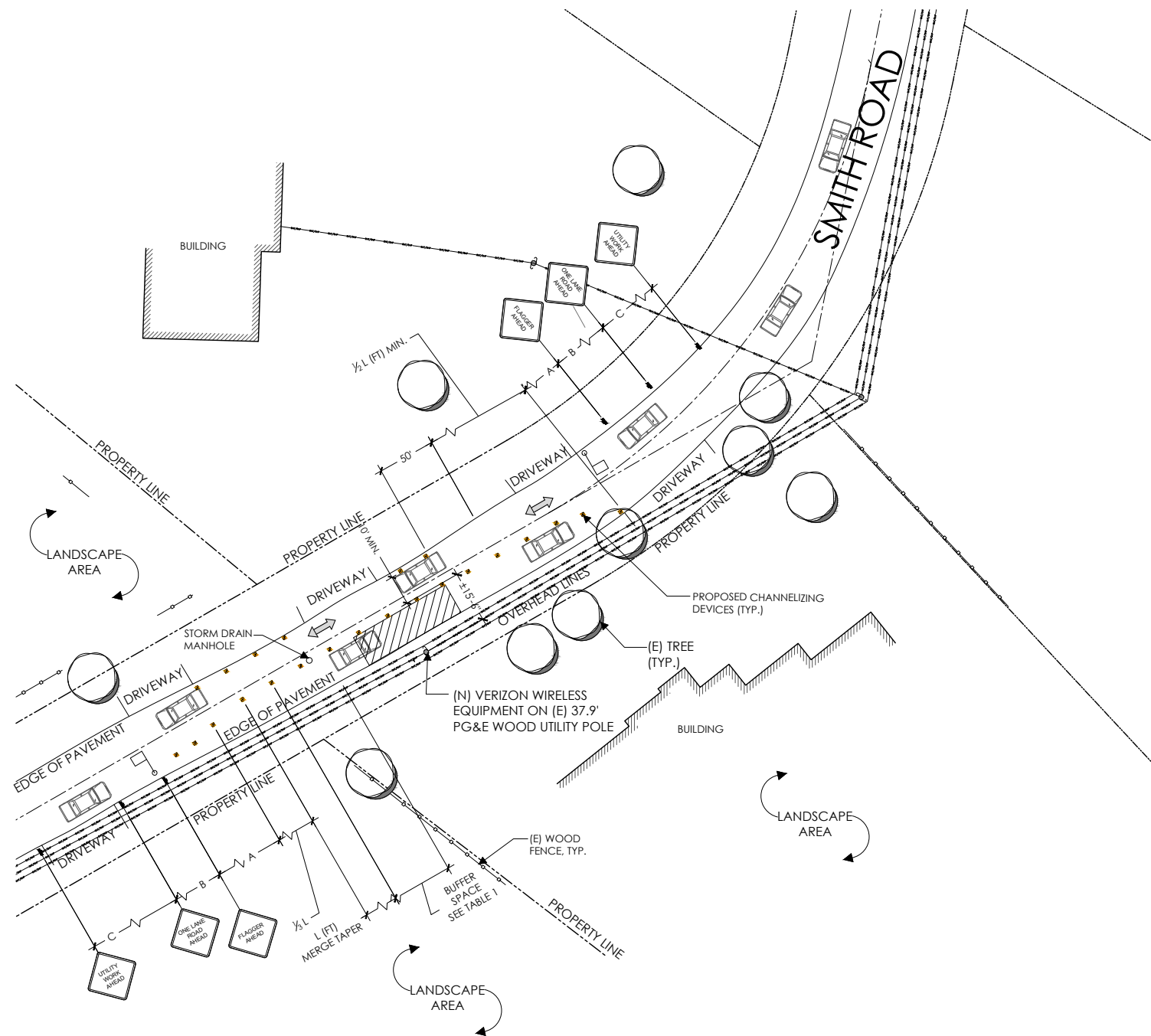
1. PLANS DEPICTED ARE GENERAL GUIDELINES FOR TEMPORARY VEHICULAR TRAFFIC CONTROL PLANS (TCP) TO INCLUDE PEDESTRIAN AND WORKER SAFETY. CONTRACTOR IS REQUIRED TO HAVE PREPARED A SITE-SPECIFIC TCP FOR REVIEW AND APPROVAL BY THE HIGHWAY AUTHORITY HAVING JURISDICTION. IF REQUIRED, THE FIRM PREPARING THE TCP SHALL BE AUTHORIZED OR CERTIFIED BY THE AUTHORITY HAVING JURISDICTION.
2. EXTEND CHANNELIZATION DEVICES INTO SHOULDER WHERE APPLICABLE.
3. DISTANCES AS INDICATED IN TABLE 1 SHOULD BE INCREASED FOR CONDITIONS THAT WOULD AFFECT STOPPING. DISTANCE SUCH AS DOWNGRADES OR LIMITED SIGHT DISTANCES. DISTANCES CAN BE DECREASED FOR LOW-SPEED (RESIDENTIAL) AREAS WITH APPROVAL BY THE AUTHORITY HAVING JURISDICTION. NIGHT-TIME WORK IS PROHIBITED UNLESS IT IS REQUIRED AS A CONDITION OF APPROVAL BY THE HIGHWAY AND LOCAL AUTHORITY HAVING JURISDICTION.
4. SHOULDER TAPERS SHOULD BE 1/3 OF THE ON-STREET TAPER LENGTH.
5. MAINTAIN A MINIMUM LANE WIDTH OF 10'.

DOT NOTES:

1. WHEN LANE CLOSURE IS REQUIRED, THE TRAFFIC CONTROL PLAN SHOULD BE PROVIDED AND NOTARIZED BY AN INDIVIDUAL/COMPANY THAT HAS FLAGGER CONTROL TRAINING CERTIFICATION.
2. "BLUE-LIGHTS" (OFF-DUTY POLICE OFFICERS) WILL BE ON SITE FOR LANE CLOSURES AND IF REQUIRED.

LEGEND

-  CHANNELIZING DEVICE
-  SIGN
-  WORK SPACE
-  FLAGGER
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW SIGN (FAS)



POSTED SPEED (MPH)	DISTANCE BETWEEN SIGNS			TAPER	BUFFER
	A	B	C	L (SEE NOTE)	
15	100'	100'	100'	45'	100'
20	100'	100'	100'	80'	115'
25	100'	100'	100'	125'	155'
30	200'	200'	200'	180'	200'
35	200'	200'	200'	245'	250'
40	350'	350'	350'	320'	305'
45	350'	350'	350'	540'	360'
50	500'	500'	500'	600'	425'
55	500'	500'	500'	660'	495'
60	500'	500'	500'	720'	570'
65	500'	500'	500'	780'	645'

NOTES:

A) DISTANCES IN FEET UNLESS OTHERWISE NOTED.

B) CONTRACTOR TO VERIFY EXISTING SPEED LIMIT.

C) DISTANCES SHOWN ARE NOT VALID FOR LIMITED ACCESS HIGHWAYS. CONSULT STATE DOT MANUAL FOR DISTANCES.

D) ADJUST DISTANCES TO COMPLY WITH REQUIREMENT OF THE STATE OR LOCAL HIGHWAY AUTHORITY HAVING JURISDICTION. SEE NOTE 1, SHEET TC-2.

E) TAPER LENGTHS SHOWN BASED ON 12' LANE WIDTH.



Verizon Wireless  
2785 Mitchell Drive, Suite 9  
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction  
Drawings

(E) LIGHT POLE  
Drawing Phase:

SF STONE VALLEY 005  
(NEAR) SMITH ROAD & OAK ROAD  
ALAMO, CA 94507

PSL #433513

Site Name:

Professional Seal:

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VEHICLE TRAFFIC  
CONTROL PLAN

Sheet Title:

TC.1

Sheet No.:

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