



# SF ALAMO 008

(NEAR) 1524 ALAMO WAY  
ALAMO, CA 94507

PSL #433674  
ORDER #31363290  
RE PROJECT #

Revised  
CONTRACT

03/23/15 15:28:01

WA18-0004



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

Client:



Project Architect:



ON AIR  
488 First St. West, Suite 101  
Berkeley, CA 94707  
Phone: 770-225-8625  
Fax: 770-225-8611

Site Agent:

100% Construction  
Drawings

Drawing Phase:

SF ALAMO 008  
(NEAR) 1524 ALAMO WAY  
ALAMO, CA 94507  
PSL #433674

Site Name:

Professional Seal:

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Rev.	Date	Description
01	23/03/15	Const. Drawg 90%
02	23/06/15	Const. Drawg 100%
03	04/03/18	Const. Drawg 100%
04	08/03/18	Const. Drawg 100%

Project No.:

Date: 08/31/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

TITLE SHEET

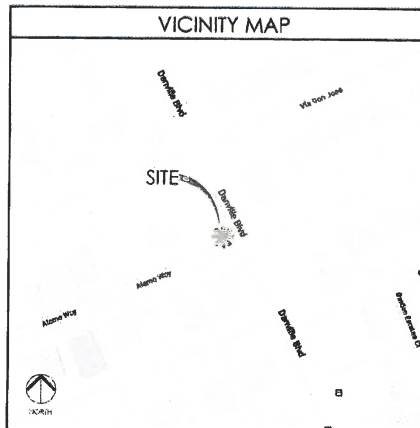
Sheet Title:

T.1

Sheet No.:

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SITE INFORMATION	
PSL #:	433674
OWNER:	PG&E CALIFORNIA JOINT POLE 870 N. MCCARTHY BLVD, SUITE 110 MERRITAS, CA 94535 TEL (408) 635-8775
APPLICANT:	VERIZON WIRELESS 2785 MITCHELL DRIVE, SUITE 9 WALNUT CREEK, CA 94598
AGENT:	ON AIR LLC 465 FIRST ST. WEST SUITE 101 SONOMA, CA 95476 TEL (707) 933-9633
APN ADJACENCY:	(F0) 191-080-001
SITE ADDRESS:	(NEAR) 1524 ALAMO WAY ALAMO, CA 94507
COUNTY:	CONTRA COSTA COUNTY
ZONING:	PUBLIC POW
ZONING JURISDICTION:	CONTRA COSTA COUNTY



PROJECT TEAM	
<b>ON AIR, LLC</b>	
ON AIR LLC 465 FIRST ST. WEST SUITE 101 SONOMA, CA 95476	
PROJECT MGR: CHRIS FOWLER	
MOBILE:	(630) 888-0809
OFFICE:	(707) 933-9633
EMAIL:	cfowler@onairllc.com
CONSTRUCTION MANAGER: MOHAMMAD A. BASEER	
MOBILE:	(510) 414-7075
EMAIL:	mbaseer@onairllc.com
SITE ACQUISITION MGR: PETE HILLIARD	
MOBILE:	(707) 732-7227
OFFICE:	(707) 933-9533
EMAIL:	philliard@onairllc.com
ARCHITECT/ENGINEER	
PROJECT MANAGER: RODNEY BARNES	
MERIDIAN MANAGEMENT, INC.	
MOBILE:	(707) 592-5924
EMAIL:	rodney@meridianmanagement.com
VERIZON WIRELESS	
VERIZON WIRELESS 2785 MITCHELL DRIVE BUILDING 9 WALNUT CREEK, CA 94598	

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 A REPLACEMENT WOOD POLE IN THE PUBLIC RIGHT-OF-WAY.	
SCOPE OF WORK:	
1.	INSTALL NEW TELECOMMUNICATIONS EQUIPMENT BOXES ON A NEW 55' HT. PG&E WOOD POLE W/ 46' ABOVE GRADE.
2.	POLE-MOUNTED EQUIPMENT TO BE INSTALLED ON A GORS COMPLIANT STANDOFF BRACKET.
3.	INSIDE (2) RRU SHIELDS, (1) FIBER DEMARC BOX, (1) DISCONNECT SWITCH, (1) DISTRIBUTION PANEL, (2) POWER SUPPLY UNITS, (2) STL BOLLARDS, AND (1) POLE-MOUNTED PG&E SMART METER.
4.	INSTALL 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
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

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:	
<ul style="list-style-type: none"> <li>CALIFORNIA CODE OF REGULATIONS</li> <li>2016 CALIFORNIA BUILDING CODE</li> <li>2016 CALIFORNIA MECHANICAL CODE</li> <li>2016 CALIFORNIA PLUMBING CODE</li> <li>2016 CALIFORNIA ELECTRIC CODE</li> <li>2016 GREEN CODE</li> <li>2014 EDITION OF TITLE 24 ENERGY STANDARDS</li> <li>ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE</li> <li>CITY / COUNTY ORDINANCES</li> <li>2014 CALIFORNIA FIRE CODES WITH ALL LOCAL AMENDMENTS</li> <li>GO 95 REGULATIONS</li> </ul>	

DRIVING DIRECTIONS	
<u>DIRECTIONS FROM VERIZON WIRELESS RF MARKET OFFICE:</u>	
1.	Head south-west on Mitchell Dr towards N Wiget Ln
2.	Turn left onto N Wiget Ln
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 43 for Livorno Rd
8.	Turn right onto Livorno Rd
9.	Turn left onto Danville Blvd
10.	Turn right onto Alamo Way
11.	Pole will be right on Alamo Way

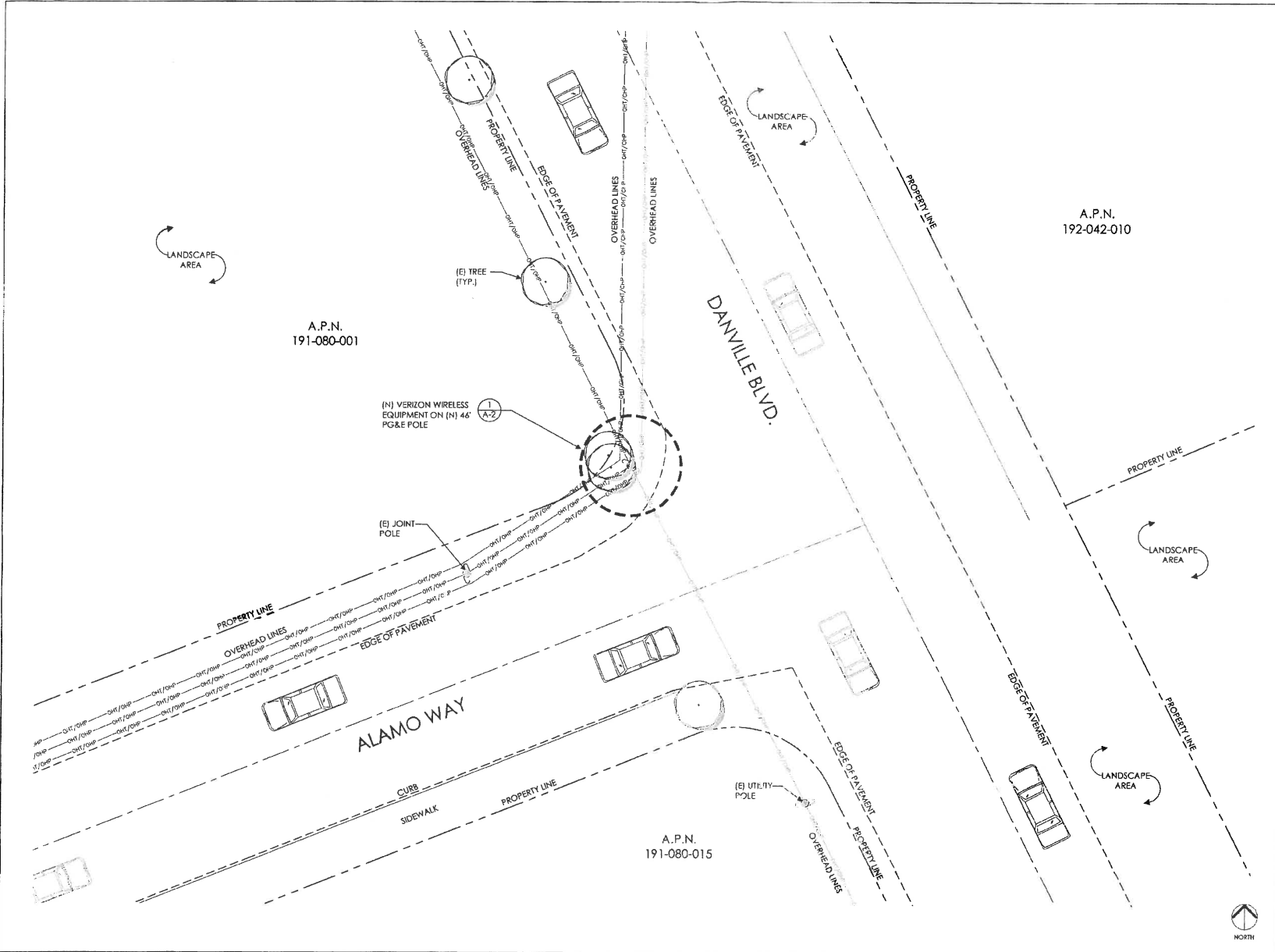
HANDICAP REQUIREMENTS	
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 11039.	



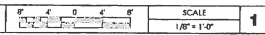
ADMINISTRATIVE REQUIREMENTS	
CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE	







OVERALL SITE PLAN



Verizon Wireless  
2785 Mitchell Drive, Suite 5  
Walnut Creek, CA 94598

Client:



Project Architect:



455 First St. West, Suite 101  
Oakland, CA 94612  
Phone: 707-433-2833  
Fax: 707-433-4811

Site Agent:

100% Construction Drawings

Drawing Phase:

SF ALAMO 008  
(NEAR) 1524 ALAMO WAY  
ALAMO, CA 94507  
PSL #433674

Site Name:

Professional Seal:

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Date: 08/13/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

OVERALL SITE PLAN

Sheet Title:

A.1

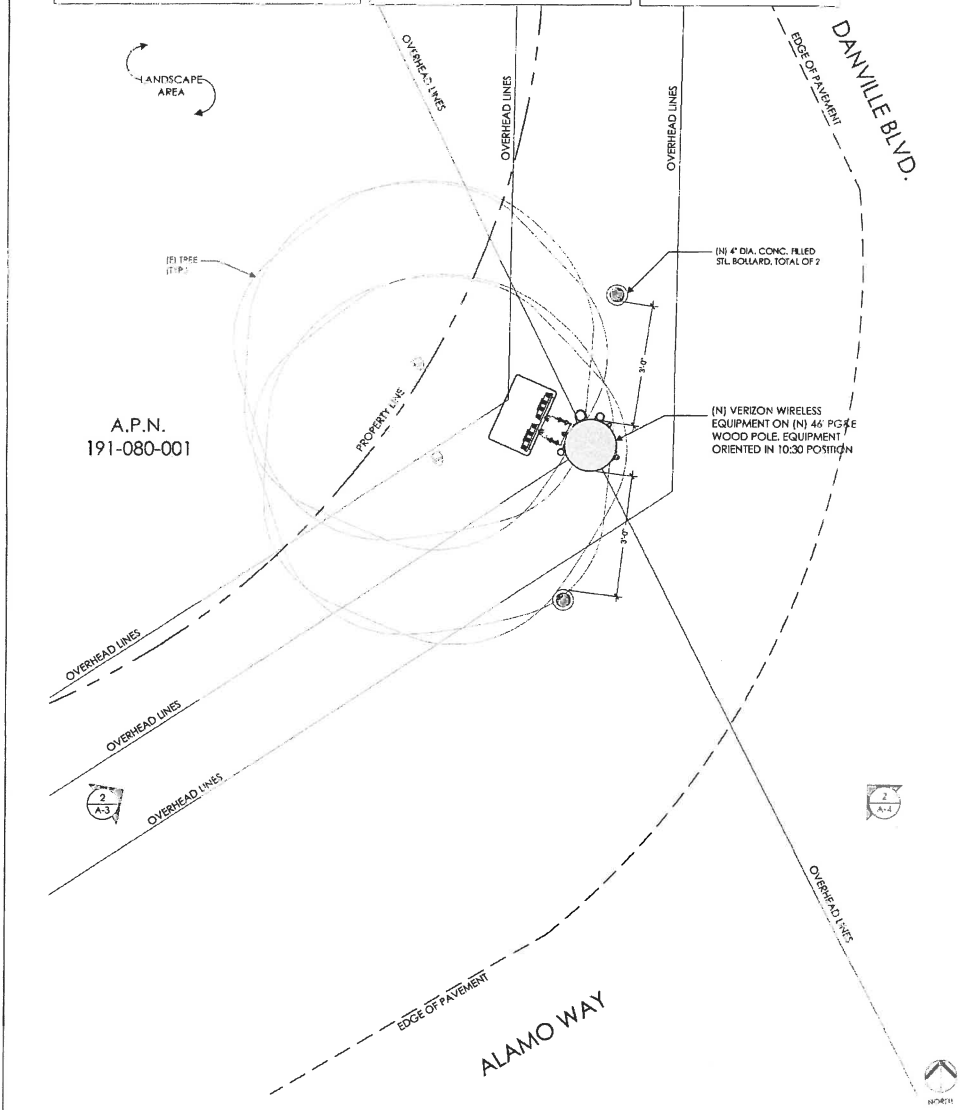
Sheet No.:

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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

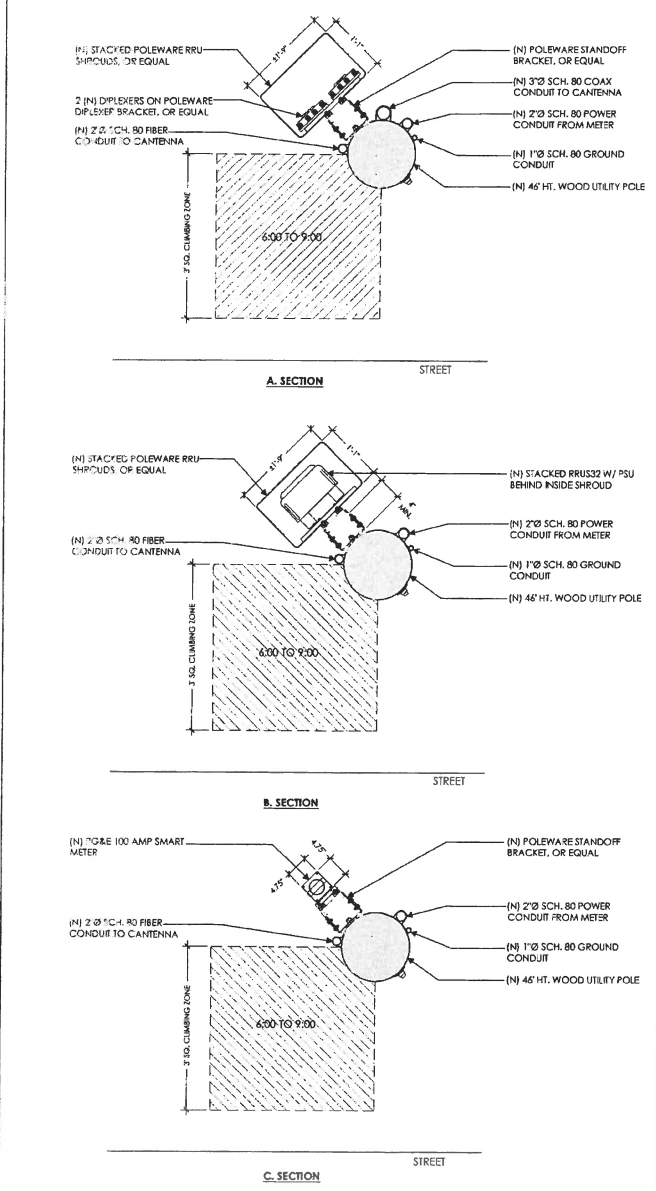
**EQUIPMENT SYSTEM:**  
ALL NEW POLE COMPONENTS NOT SHOP PAINTED SHOULD BE FIELD PAINTED VALSPAR 'DEEP EARTH' COLOR

**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

SCALE 1/4" = 1'-0" 1



POLE SECTIONS

SCALE 1" = 3'-0" 2



Verizon Wireless  
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Walnut Creek, CA 94598

Client:



Project Architect:

**ON AIR**

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Berkeley, CA 94710  
Phone: 925-855-6533  
Fax: 925-855-6111

Site Agent:

100% Construction Drawings  
(B) LIGHT POLE  
Drawing Phase:

**SF ALAMO 008**  
(NEAR) 1524 ALAMO WAY  
ALAMO, CA 94507  
PL #435674

Site Name:

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Date: 06/13/18 Job No.:  
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Designed By: JG Checked: RB

POLE PLAN ENLARGEMENTS

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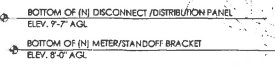
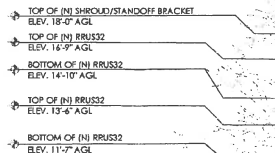
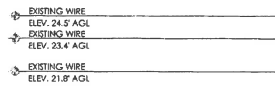
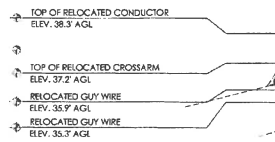
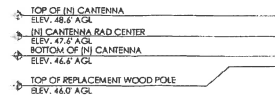
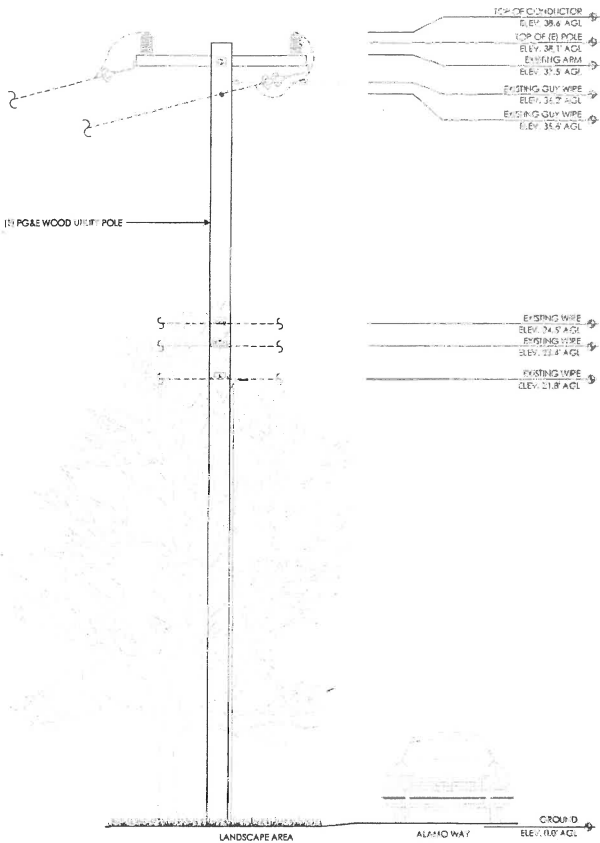
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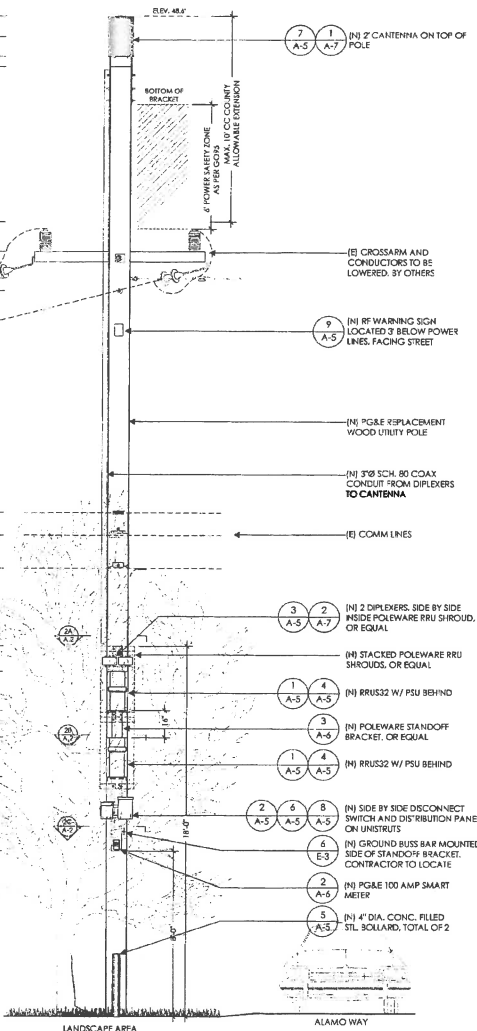
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**SCALE NOTE**

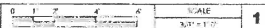
7 DIMENSIONS SHOWN IN PLENS DO NOT SCALE  
 1/2" PER FEET CHECK FOR REDUCED CLEARANCE FROM ORIGINAL PLANS



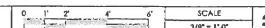
PROVIDE POLE STEPS AS REQUIRED. SEE DETAIL 1/A-6



SOUTHWEST ELEVATION - EXISTING



SOUTHWEST ELEVATION - PROPOSED



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

Client:



Project Architect:



488 Pitt St., West, Suite 101  
 Sonoma, CA 94961  
 Phone: 707-433-2853  
 Fax: 707-433-2811

Site Agent:

100% Construction  
 Drawings

Drawing Phase:

SF ALAMO 008  
 (NEAR) 1524 ALAMO WAY  
 ALAMO, CA 94507  
 PSL #433274

Site Name:

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Designed By: JG

Checked: RB

ELEVATIONS

Sheet Title:

A.3

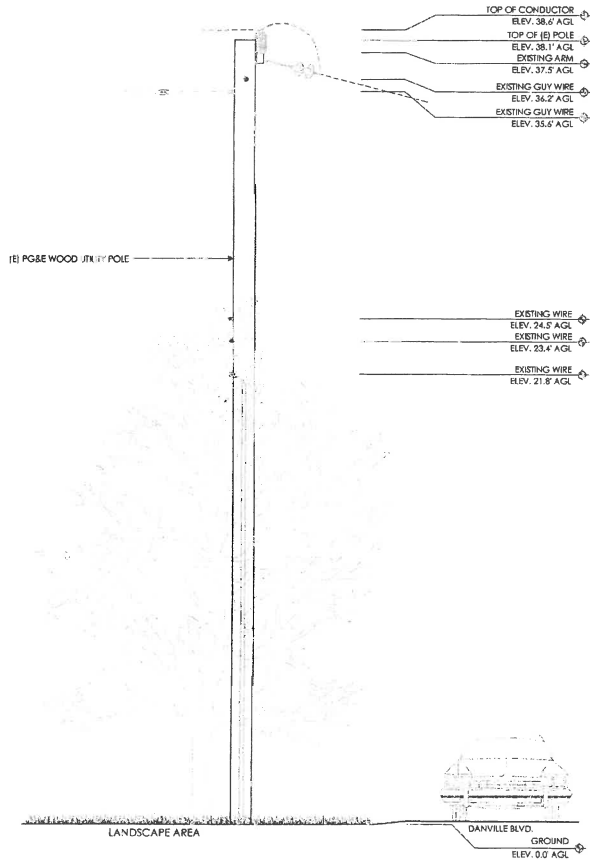
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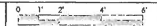
**SCALE NOTE:**

IF DIMENSIONS SHOWN ON PLANS OR IN THIS SCALE  
CONFLICT, CHECK PLANS FOR DIMENSIONS  
ENLARGEMENT FROM GENERAL PLANS

- (N) VERIZON EQUIPMENT TO BE MOUNTED IN THE 10:30 QUADRANT.
- POLE STEPS REQUIRED FROM 8.5' TO COMMUNICATIONS ZONE. STEPS SHOULD BE USABLE WHEN INSTALLED WITHIN CLIMBING SPACE.
- ALL NEW COMPONENTS NOT SHOP PAINTED SHOULD BE FIELD PAINTED VALSAR 'DEEP EARTH' COLOR.

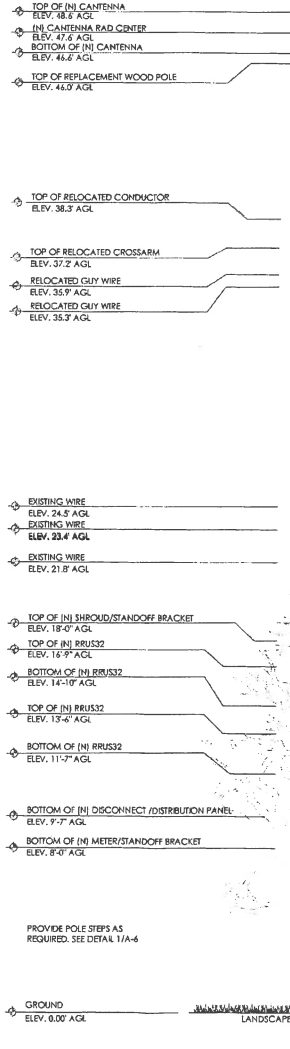


SOUTHEAST ELEVATION - EXISTING

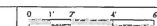


SCALE  
3/8" = 1'-0"

1



SOUTHEAST ELEVATION - PROPOSED



SCALE  
3/8" = 1'-0"

2



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

Client:



Project Architect:

ON AIR

488 First St., West, Suite 101  
Berkeley, CA 94704  
Phone: 909-255-6833  
Fax: 909-453-9811

Site Agent:

100% Construction Drawings

Drawing Phase:

SF ALAMO 008  
(NEAR) 1524 ALAMO WAY  
ALAMO, CA 94507  
PSL #433674

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ELEVATIONS

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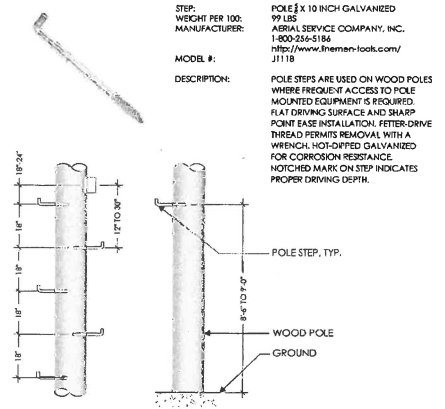
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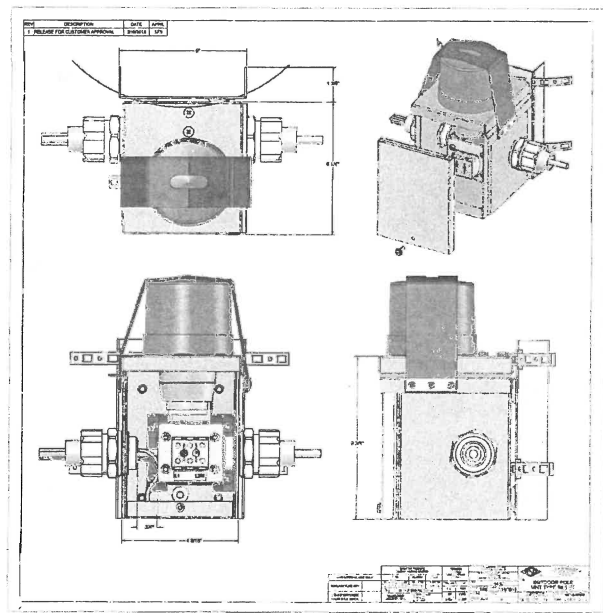






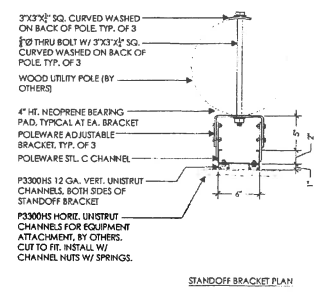
POLE STEPS

SCALE  
NOT TO SCALE 1

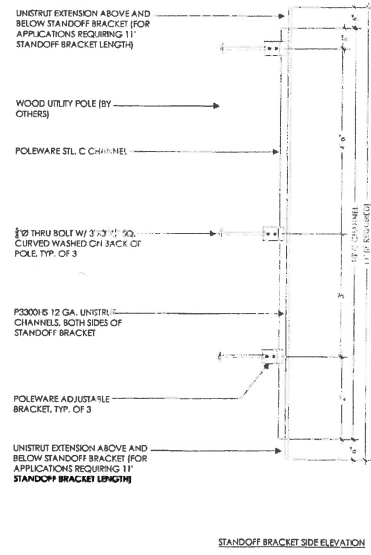


PG&E SMART METER

2 STANDOFF BRACKET

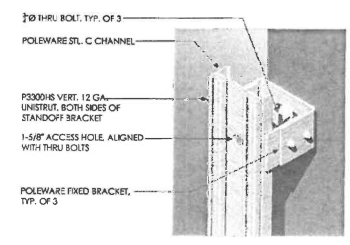


STANDOFF BRACKET PLAN

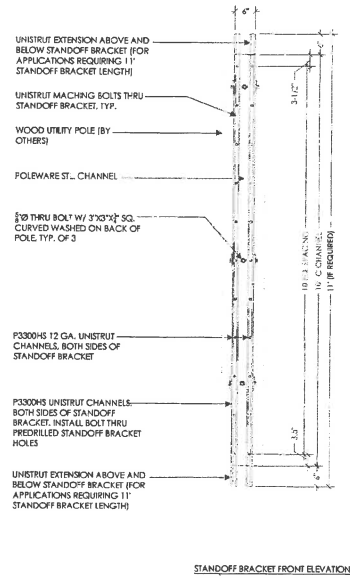


STANDOFF BRACKET SIDE ELEVATION

- NOTE:
1. STANDOFF BRACKET MODEL # 4111111111111111 AS MFG. BY POLEWARE, LLC, (423) 215-5119, OR EQUAL.
  2. ALL COMPONENTS TO BE SHOP PRIME PAINTED
  3. UNISTRUT COMPONENTS TO BE MFG BY UNISTRUT CORPORATION, 1140 W. RICORDALE AVE., PASCO, WA 99143, (509) 468-9310.
  4. HORIZONTAL UNISTRUTS (P3300HS) FOR EQUIPMENT INSTALLATION NOT INCLUDED
  5. ADJUSTABLE BRACKETS FOR SLANTED POLES AVAILABLE BY SPECIAL ORDER



STANDOFF BRACKET BRACKET ISO



STANDOFF BRACKET FRONT ELEVATION



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

Client:



Project Architect:

ON AIR

483 First St West, Suite 101  
San Francisco, CA 94107  
Phone: 415.435.5023  
Fax: 415.435.5011

Site Agent:

100% Construction  
Drawings

Drawing Phase:

SF ALAMO 008  
(NEAR) 1524 ALAMO WAY  
ALAMO, CA 94507  
PCL #433674

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EQUIPMENT  
DETAILS

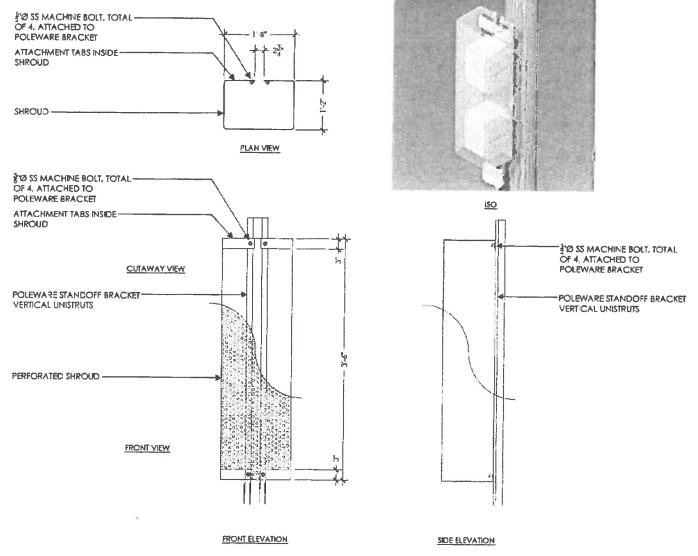
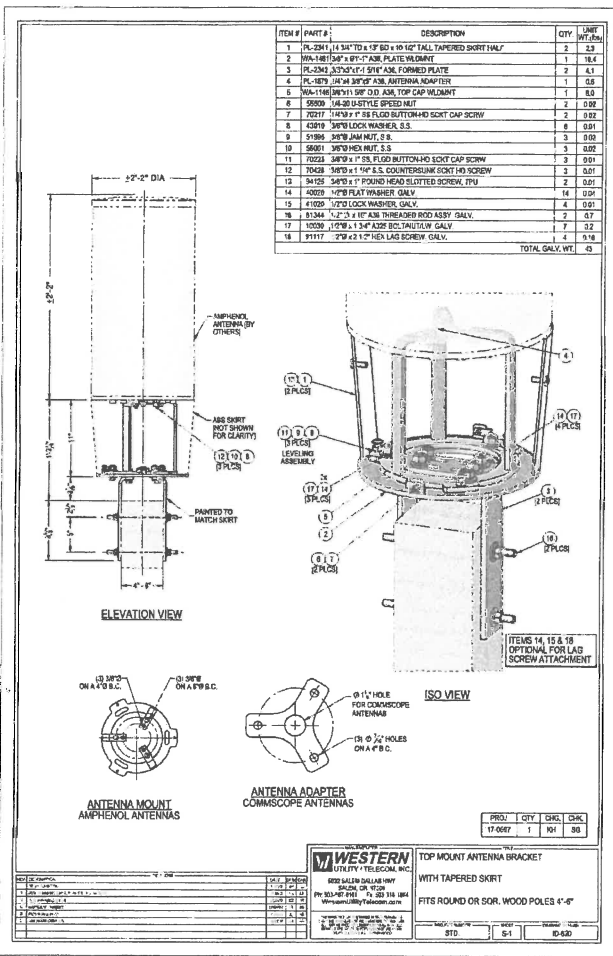
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SCALE  
NOT TO SCALE 3



- NOTE:**
- RRU SHROUD MODEL #PW-RP5-G2L-LAL-SP AS MFG. BY POLEWARE LLC. (478) 215-5119, OR EQUAL
  - ALL COMPONENTS TO BE SHOP PRIMED PAINTED
  - UNISTRUT COMPONENTS TO BE MFG BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., FASCA IL, 60143, (800) 468-9310.
  - CUSTOMER TO SPECIFY SHROUD HEIGHT AT TIME OF ORDERING.

ANTENNA BRACKET

1 RRU SHROUD

SCALE NOT TO SCALE 2



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2783 Mitchell Drive, Suite 9  
Walnut Creek, CA 94598

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Project Architect:



Site Agent:

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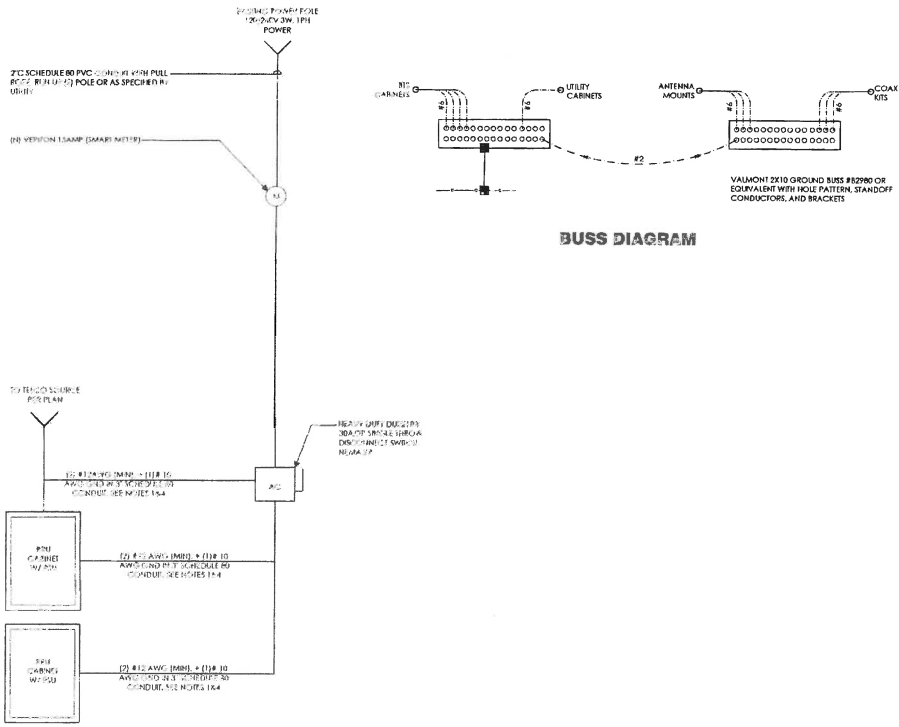
EQUIPMENT DETAILS

Sheet Title:

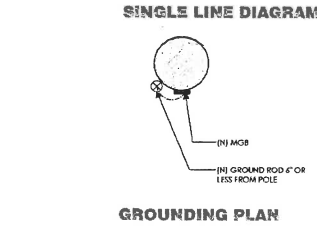
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**BUSS DIAGRAM**



**SINGLE LINE DIAGRAM**

**GROUNDING PLAN**

**LOAD CALCULATIONS - VERIZON WIRELESS**  
 EXISTING LOAD: 0 AMPS  
 NEW LOAD: 6.67 AMPS MAX.  
 NEW TOTAL LOAD: 6.67 AMPS MAX.

POWER AND TELCO DESIGN IS BASED ON INITIAL SITE VISIT.  
 CONTRACTOR SHALL OBTAIN CURRENT UTILITY COORDINATOR PLANS PRIOR TO START OF CONSTRUCTION.

AVAILABLE FAULT CURRENT PER UTILITY.  
 NOTE: CONTRACTOR TO CHECK WITH UTILITY TO ENSURE ELEC. METER IS BRACED FOR ACTUAL FAULT CURRENT.

**POWER AND TELCO NOTES:**

- POWER AND TELCO POINTS OF CONNECTION AND ANY BASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
- 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.
- CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE Riser TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
- CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.

**GENERAL ELECTRICAL NOTES:**

- PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
- THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENTLY 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 FEES ARE PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS & EQUIPMENT FOR THE ENTIRE INSTALLATION & UNIT COMPLETION OF WORK, ERCT, & 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.
- COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.
- ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE PART OF THIS CONTRACT.
- 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.
- ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE THHN/THWN CONDUCTORS LARGER AND #6 AWG MAY BE TYPE THWN OR THWN.
- PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATER TIGHT.
- UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, SUDIAL ELEMENT FUSES SEED 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 3B AND/OR UL LISTED FOR WET ENVIRONMENT.
- 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 DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.

**NOTES:**

- SUBCONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BUS UNITS AND THE ISSUABLE CABINET.
- ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
- SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATING GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
- FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
- MAXIMUM ONE-WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.

\* 1. VERIFY THE MANUFACTURERS REGULATIONS/SCHEDULE  
 \* 2. E.C. SHALL VERIFY BRANCH CIRCUIT ARRANGEMENT AS SHOWN IN THE PANELS SCHEDULE  
 \* 3. MAIN ACB INSTALLED BY MANUFACTURER

TO 100 AMP METER SOCKET

LOAD		CIRCUIT NUMBER		CIRCUIT		CIRCUIT		CIRCUIT		CIRCUIT		CIRCUIT		CIRCUIT		CIRCUIT		CIRCUIT		CIRCUIT	
NO.	DESCRIPTION	TYPE	AMPS	NO.	DESCRIPTION	TYPE	AMPS	NO.	DESCRIPTION	TYPE	AMPS	NO.	DESCRIPTION	TYPE	AMPS	NO.	DESCRIPTION	TYPE	AMPS	NO.	DESCRIPTION
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

**PANEL SCHEDULE -- PANEL \* PP \***



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 PCL # 435674

Site Name:

Professional Seal:

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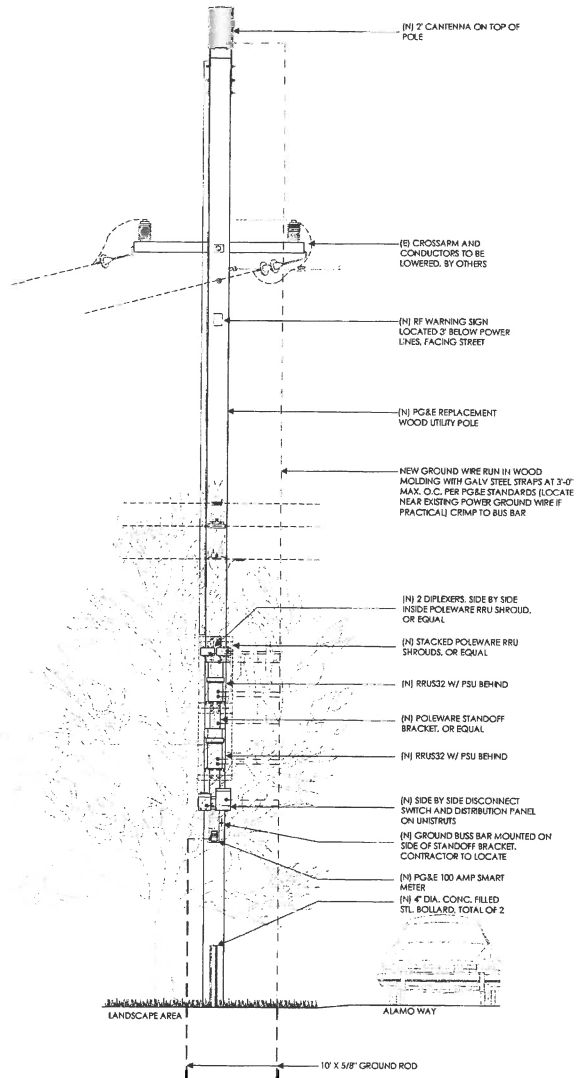
Designed By: JG Checked: RB

SINGLE LINE DIAGRAM  
 BUSS DIAGRAM  
 PANEL SCHEDULE

Sheet Title:

**E.1**

Sheet No.:

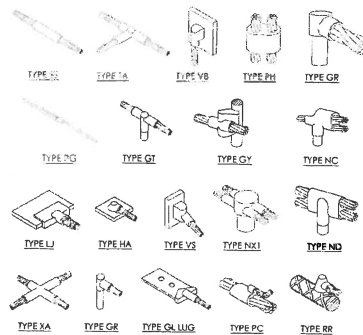


POLE GROUNDING RISER DIAGRAM (TYP.)

SCALE  
N.T.S.

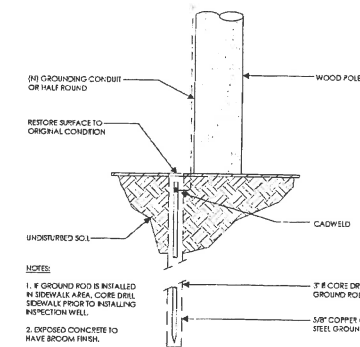
1

NOT USED



EXOTHERMIC WELD CONNECTION

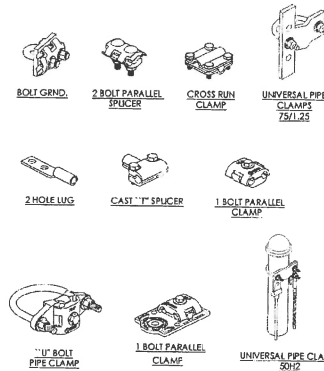
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POLE GROUNDING ROD

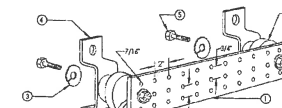
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3



MECHANICAL CONNECTION

5



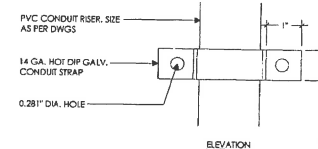
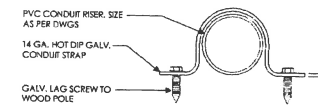
NOTES:

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. CONDUCTORS, 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" FHCS BOLTS, NEWTON INSTRUMENT CO., CAT. NO. 3012-1 OR APPROVED EQUAL
6. CONDUCTORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

BUSS BAR

SCALE  
N.T.S.

6



POLE CONDUIT STRAP

SCALE  
N.T.S.

7



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ELECTRICAL DETAILS

Sheet Title:

E.2

Sheet No.:

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**PLAN NOTES:**

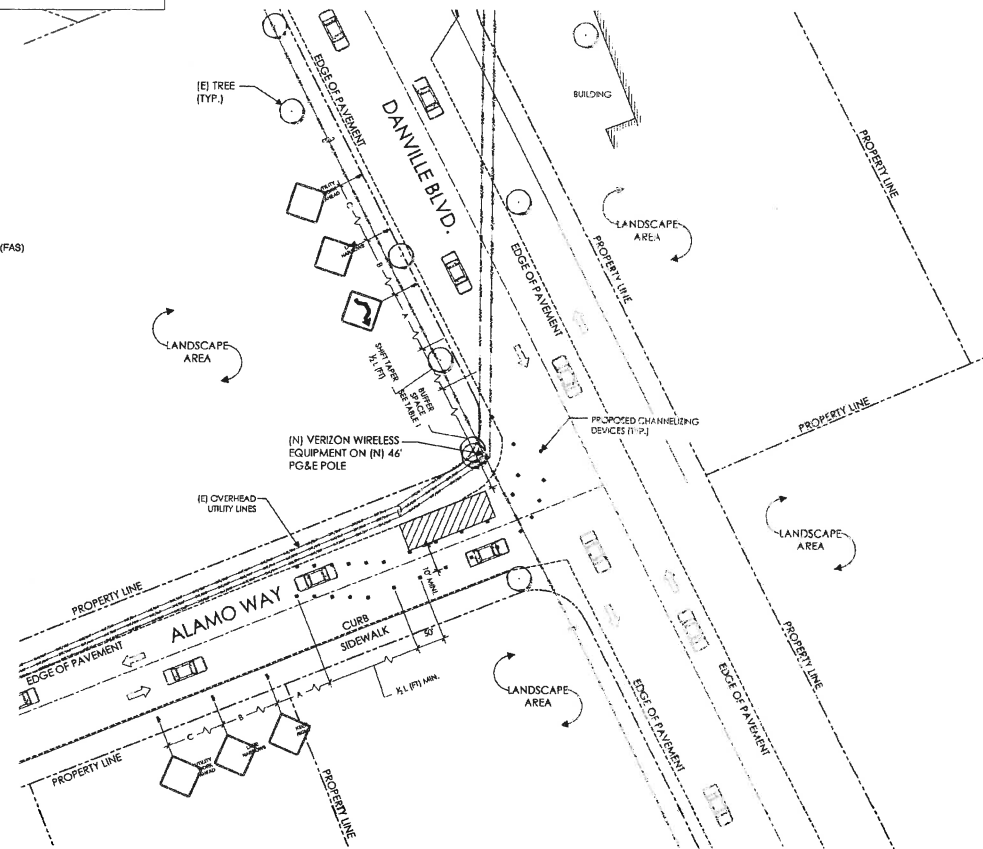
1. PLANS DEPICTED ARE GENERAL GUIDELINES FOR TEMPORARY VEHICULAR TRAFFIC CONTROL PLANS (TCP) TO INCLUDE PEDESTRIAN AND WORKER SAFETY. CONTRACTOR IS REQUIRED TO HAVE PREPARED A SITE-SPECIFIC TCP FOR REVIEW AND APPROVAL BY THE HIGHWAY AUTHORITY HAVING JURISDICTION. IF REQUIRED, THE FIRM PREPARING THE TCP 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)



**TABLE 1**


POSTED SPEED (MPH)	DISTANCE BETWEEN SIGNS			TAPER	BUFFER
	A	B	C		
15	100'	100'	100'	45'	100'
20	100'	100'	100'	80'	115'
25	100'	100'	100'	125'	155'
30	200'	200'	200'	150'	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.

OVERALL SITE PLAN

SCALE 1" = 30'

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**100% Construction Drawings**  
 (E) LIGHT POLE  
 Drawing Phase:  
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 PSL #433674  
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**SITE SPECIFIC VEHICLE TRAFFIC CONTROL PLAN**

Sheet Title:  
**TC.1**  
 Sheet No.:  
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