

**574 FORT LARAMIE DRIVE  
(PG&E: 1598 RICHELIEU PLACE)  
SUNNYVALE, CA 94087  
STRUCTURE TYPE: PG&E POLE-TOP  
LOCATION CODE: 427810**



2785 MITCHELL DRIVE, SUITE 9  
WALNUT CREEK, CA 94598

Engineer:



2840 HOWE ROAD, SUITE E  
MARTINEZ, CA 94553  
[www.TheCBRGroup.com](http://www.TheCBRGroup.com)

Vendor:

Site Number: 427810

Site Name:  
SUNNYVALE 005

Site Address:  
574 FORT LARAMIE DRIVE  
(PG&E: 1592 RICHELIEU PL.)  
SUNNYVALE, CA 94087

County: SANTA CLARA COUNTY

Issued For:

## CONSTRUCTION

E	10/28/19	2ND PLAN CHECK COMMENTS	ALR
D	10/09/19	PLAN CHECK COMMENTS	ALR
C	07/24/19	DESIGN CHANGE	ALR
B	06/07/19	100% CD'S FOR REVIEW	ALR
A	05/24/19	90% CD'S FOR REVIEW	ALR
REV	DATE	DESCRIPTION	BY

Licensors:

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THEY ARE ACTING UNDER THE DIRECTION OF A  
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DOCUMENT.

Sheet Title:

TITLE SHEET

Sheet Number:

**T-1**

THIS IS AN UNMANNED WIRELESS TELECOMMUNICATION FACILITY FOR VERIZON WIRELESS CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT. SCOPE OF WORK CONSISTS OF THE FOLLOWING:

1. INSTALL (N) CANISTER ANTENNA ON (N) 50' REPLACEMENT POLE (42' ABOVE GROUND LEVEL, 8' UNDERGROUND EMBEDMENT).
2. INSTALL (N) FCC SIGNAGE ON (N) UTILITY POLE.
3. INSTALL (1) POWER CABINET CAGE WITH ELECTRICAL METER.
4. INSTALL (2) NRRU UNITS INSIDE (N) POWER CABINET CAGE.
5. INSTALL (2) DISCONNECT SWITCHES ON (N) POWER CABINET CAGE.
6. INSTALL (N) BUSS BAR INSIDE (N) POWER CABINET CAGE.
7. INSTALL (N) CONDUIT FOR POWER, FIBER AND COAX.

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.

- 1) 2016 CALIFORNIA BUILDING CODE (CBC)
- 2) 2016 CALIFORNIA RESIDENTIAL CODE (CRC)
- 3) 2016 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
- 4) 2016 CALIFORNIA EXISTING BUILDING CODE (CEBC)
- 5) 2016 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CGBSC)
- 6) 2016 CALIFORNIA FIRE CODE (CFC)
- 7) 2016 CALIFORNIA MECHANICAL CODE (CMC)
- 8) 2016 CALIFORNIA PLUMBING CODE (CPC)
- 9) 2016 CALIFORNIA ELECTRICAL CODE (CEC)
- 10) 2016 CALIFORNIA ENERGY CODE (CEC)
- 11) ANSI / EIA-TIA-222-G
- 12) 2015 NFPA 101, LIFE SAFETY CODE
- 13) 2015 NFPA 72, NATIONAL FIRE ALARM CODE
- 14) 2015 NFPA 13, FIRE SPRINKLER CODE
- 15) G.O. 95

T-1	TITLE SHEET	D
LS-1	UTILITY POLE EXHIBIT	D
A-1-1	OVERALL SITE PLAN	D
A-1.2	UNDERGROUND CONDUIT PLAN	D
A-2	EXISTING AND PROPOSED EQUIPMENT AND ANTENNA PLANS	D
A-3	EXISTING AND PROPOSED NORTH ELEVATIONS	D
A-4	EXISTING AND PROPOSED EAST ELEVATIONS	D
A-5	EQUIPMENT AND CONSTRUCTION DETAILS	D
A-6	EQUIPMENT AND CONSTRUCTION DETAILS	D
E-1	ELECTRICAL GROUND DIAGRAMS	D
E-2	ELECTRICAL DETAILS	D
TCP	TRAFFIC CONTROL PLAN	D

OCCUPANCY : U (UNMANNED COMMUNICATIONS FACILITY)

CONSTRUCTION TYPE: -

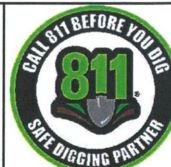
HANDICAP REQUIREMENTS

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY ACCESS AND REQUIREMENTS ARE NOT REQUIRED, IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, PART 2, TITLE 24, SECTION 1103B.1, EXCEPTION 1 & SECTION 1134B.2.1, EXCEPTION 4.

INITIATIVE:	REVISION LEVEL	DATE:
-	-	-

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 24" x 36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOBSITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.



APPLICANT/LESSEE:  
VERIZON WIRELESS  
2785 MITCHELL DRIVE, BLDG 9  
WALNUT CREEK, CA 94598

**APPLICANT/ENGINEER:**  
THE CBR GROUP  
2840 HOWE ROAD, SUITE E  
MARTINEZ, CA 94553  
PH: (925) 246-3212  
EMAIL: [projects@thecbrgroup.com](mailto:projects@thecbrgroup.com)

CURRENT USE:  
UTILITY POLE

PROPOSED USE:  
UTILITY POLE & TELECOMMUNICATIONS  
FACILITY

JURISDICTION:  
CITY OF SUNNYVALE

LATITUDE:  
37.343378

LONGITUDE:  
-122.036317

AMSL:  
±200.2' AMSL

PROPERTY OWNER:  
CITY OF SUNNYVALE

POLE OWNER:  
PG&E

**POWER AGENCY:**  
PG&E  
77 BEALE STREET  
SAN FRANCISCO, CA  
PH: (800) 743-5000

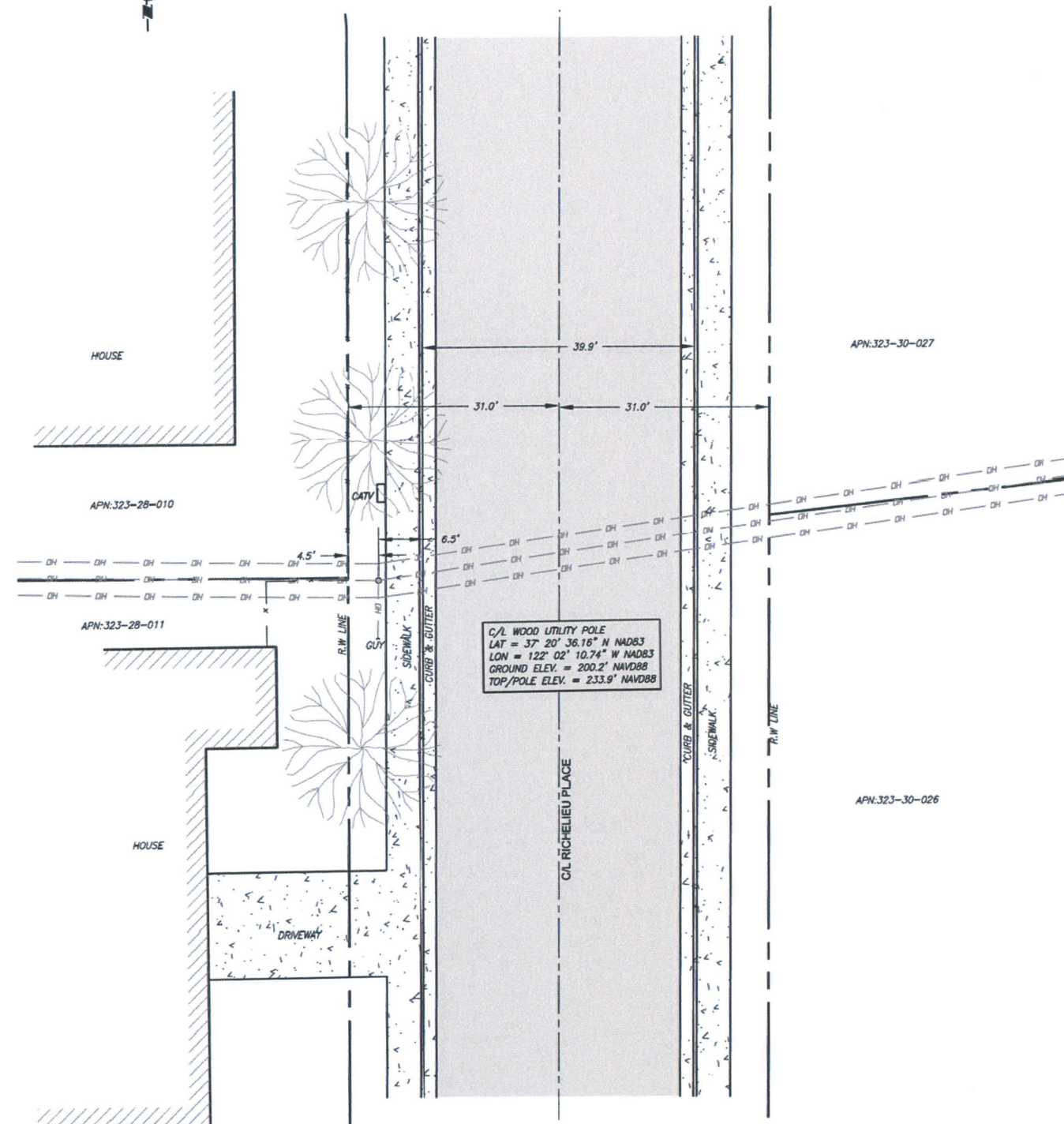
Posting Copy Rev 3 Received 10/31/18



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**LS-1**



1. ALL LATITUDES AND LONGITUDES ARE NAD 83, ALL ELEVATIONS ARE NAVD 88  
(UNLESS NOTED OTHERWISE);

2. ALL BOUNDARY INFORMATION SHOWN HEREON HAS BEEN COMPILED FROM RECORD  
DATA. THIS IS NOT A BOUNDARY SURVEY.

3. DATE OF FIELD SURVEY JANUARY 31, 2019.

4. NO PRELIMINARY TITLE REPORT HAS BEEN PROVIDED, ANY EASEMENTS OR OTHER  
TITLE RELATED ISSUES NOT INCLUDED IN SAID REPORT ARE PART OF THE TITLE  
PROCESS MAY OR MAY NOT HAVE BEEN ADDRESSED, TIMOTHY F. SCHAD, L.S.  
ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR BOUNDARY OR TITLE ITEMS  
ADDRESSED HEREON. THIS IS NOT A BOUNDARY SURVEY.



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www.TheCBRGroup.com

Vendor:

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427810

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Sheet Title:

OVERALL SITE PLAN

Sheet Number:

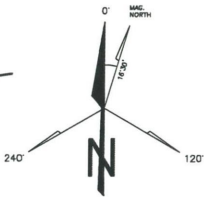
A-1.1

SYMBOLS

2	GRID REFERENCE
1 A-2	DETAIL REFERENCE
X Y	ELEVATION REFERENCE
X Y	SECTION REFERENCE
---	CENTERLINE
---	PROPERTY/LEASE LINE
---	MATCH LINE
---	WORK POINT
---	GROUND CONDUCTOR
---	TELEPHONE CONDUIT
---	ELECTRICAL CONDUIT
---	COAXIAL CABLE
---	OVERHEAD SERVICE CONDUCTORS
---	GROUT OR PLASTER
---	(E) BRICK
---	(E) MASONRY
---	CONCRETE
---	EARTH
---	GRAVEL
---	PLYWOOD
---	SAND
---	WOOD CONTINUOUS
---	WOOD BLOCKING
---	STEEL
(N)	NEW
(E)	EXISTING
---	NEW ANTENNA
---	EXISTING ANTENNA
---	GROUND ROD
---	GROUND BUS BAR
---	MECHANICAL GRND. CONN.
---	CADWELD
---	GROUND ACCESS WELL
E	ELECTRIC BOX
T	TELEPHONE BOX
---	LIGHT POLE
---	FND. MONUMENT
---	SPOT ELEVATION
---	SET POINT
---	REVISION

- FORT LARAMIE DRIVE -

SECTOR 1  
AZ = 0°



~ (E) BUILDING ~  
~ APN: 323-28-010 ~  
(574 FORT LARAMIE DR.)

(N) VERIZON WIRELESS ANTENNA MOUNTED  
ON (N) 50' REPLACEMENT POLE  
(42' ABOVE GROUND LEVEL,  
8' UNDERGROUND EMBEDMENT)  
AND (N) EQUIPMENT AT GROUND LEVEL

1 2  
A-2 A-2

~ APN: 323-30-027 ~

SEE UNDERGROUND CONDUIT PLAN

1  
A-1.1

~ APN: 323-30-026 ~

~ (E) BUILDING ~  
~ APN: 323-28-011 ~  
(575 ALBERTA AVE.)

SECTOR 3  
AZ = 240°

SECTOR 2  
AZ = 120°

1 OVERALL SITE PLAN

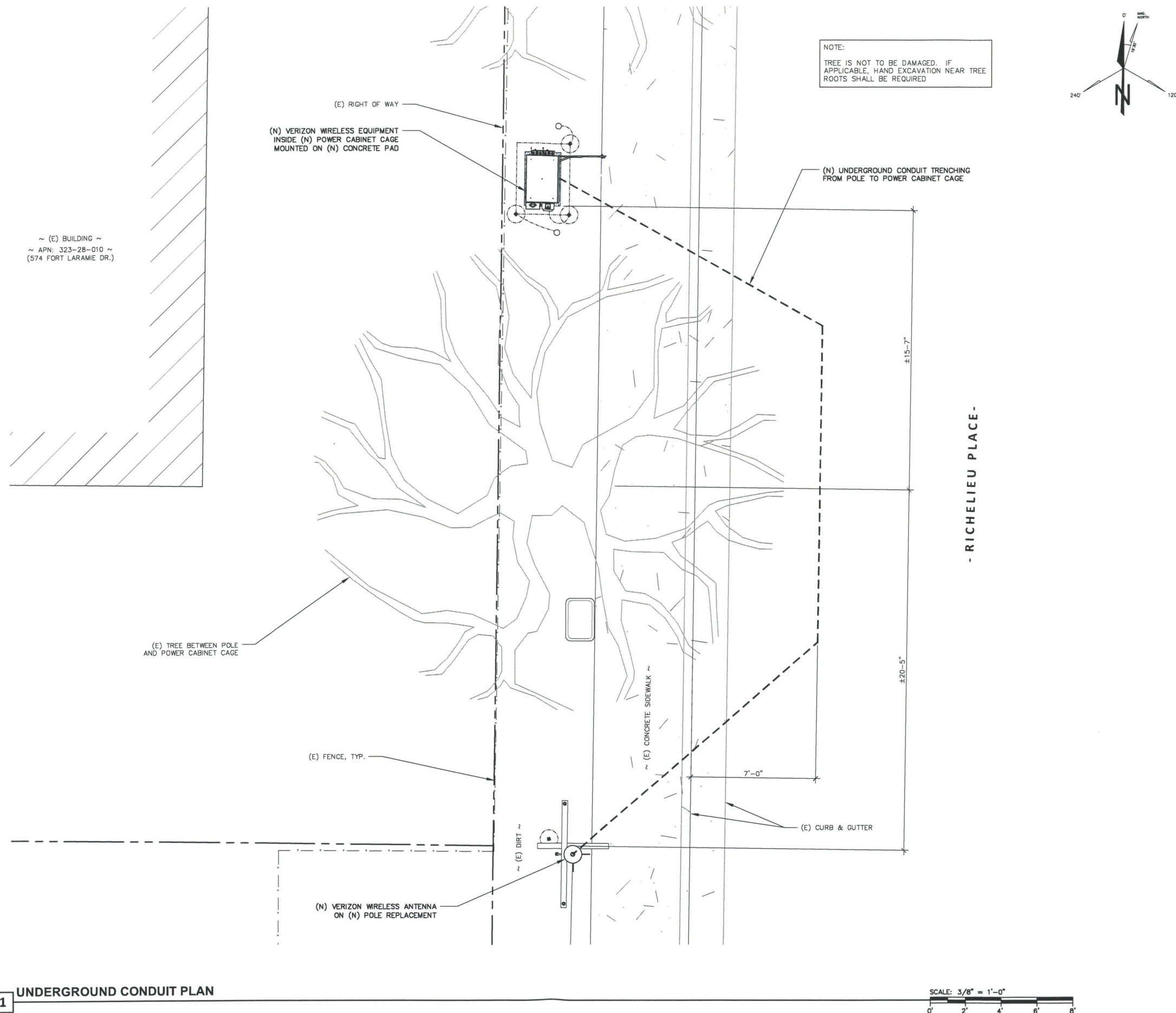
SCALE: 3/32" = 1'-0"

0' 4' 8' 16' 32'



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1 UNDERGROUND CONDUIT PLAN





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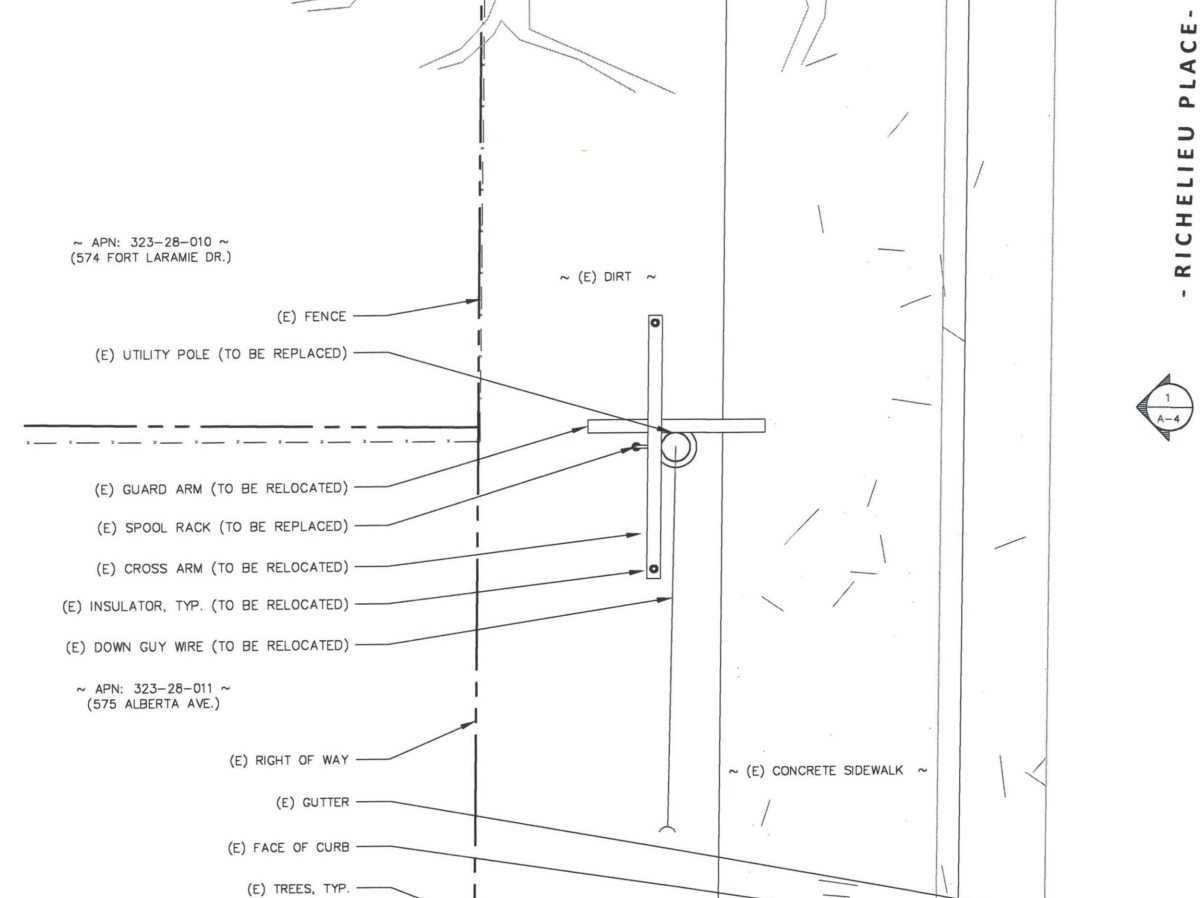
EXISTING AND PROPOSED  
EQUIPMENT PLANS

Sheet Number:

A-2

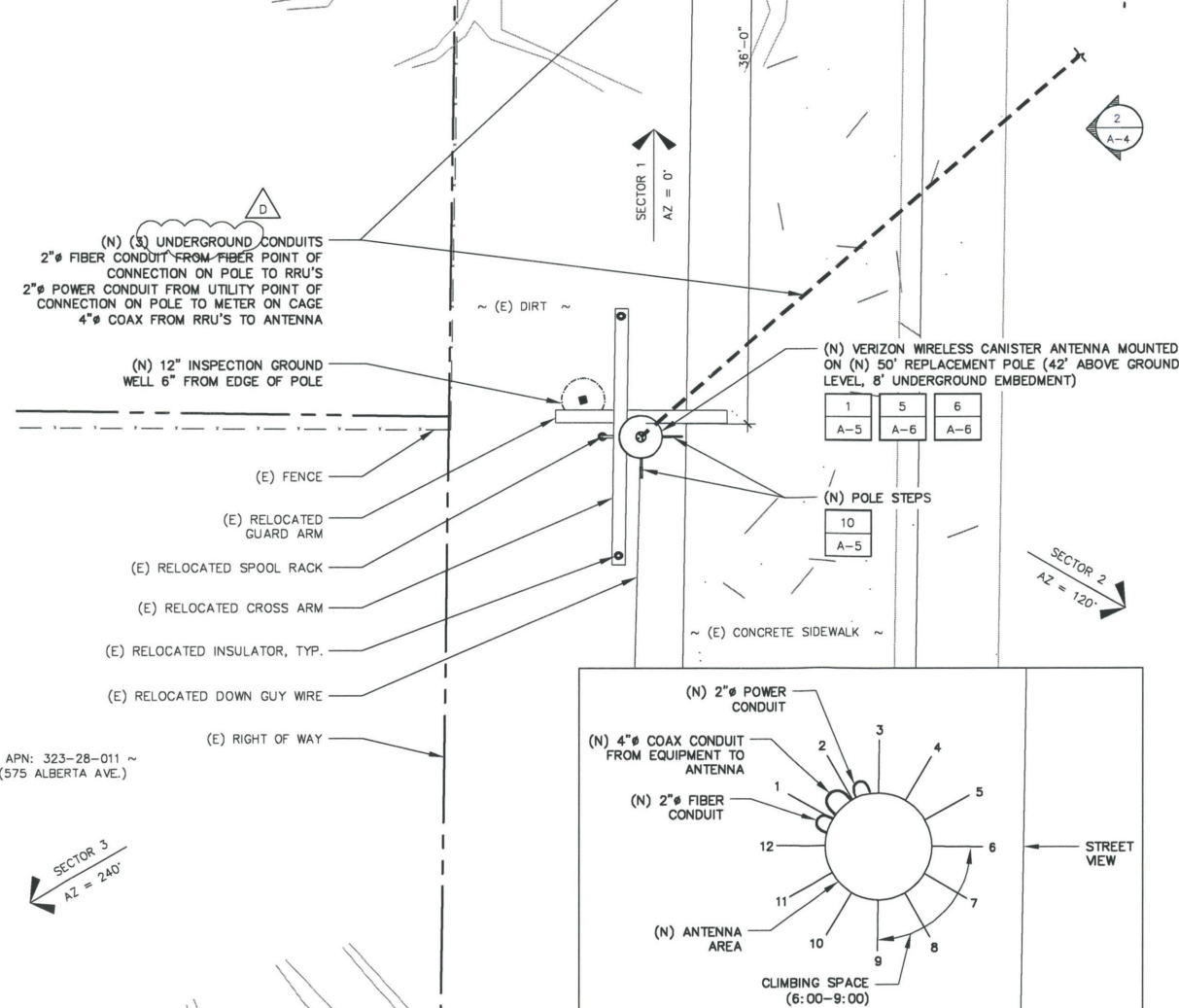
NOTE:  
PG&E WILL BE RESPONSIBLE FOR THE  
POLE REPLACEMENT, RELOCATIONS, AND  
ANY GROUND DISTURBANCE ASSOCIATED  
WITH SAID REPLACEMENT. VERIZON WILL  
NOT BE DISTURBING ANY GROUNDS WITH  
THIS WORK.

NOTE:  
ALL (N) EQUIPMENT TO BE PAINTED VALSPAR  
(6010-2 DEEP EARTH) EXCEPT RRUS



1 EXISTING EQUIPMENT AND ANTENNA

SCALE: 1/2" = 1'-0"

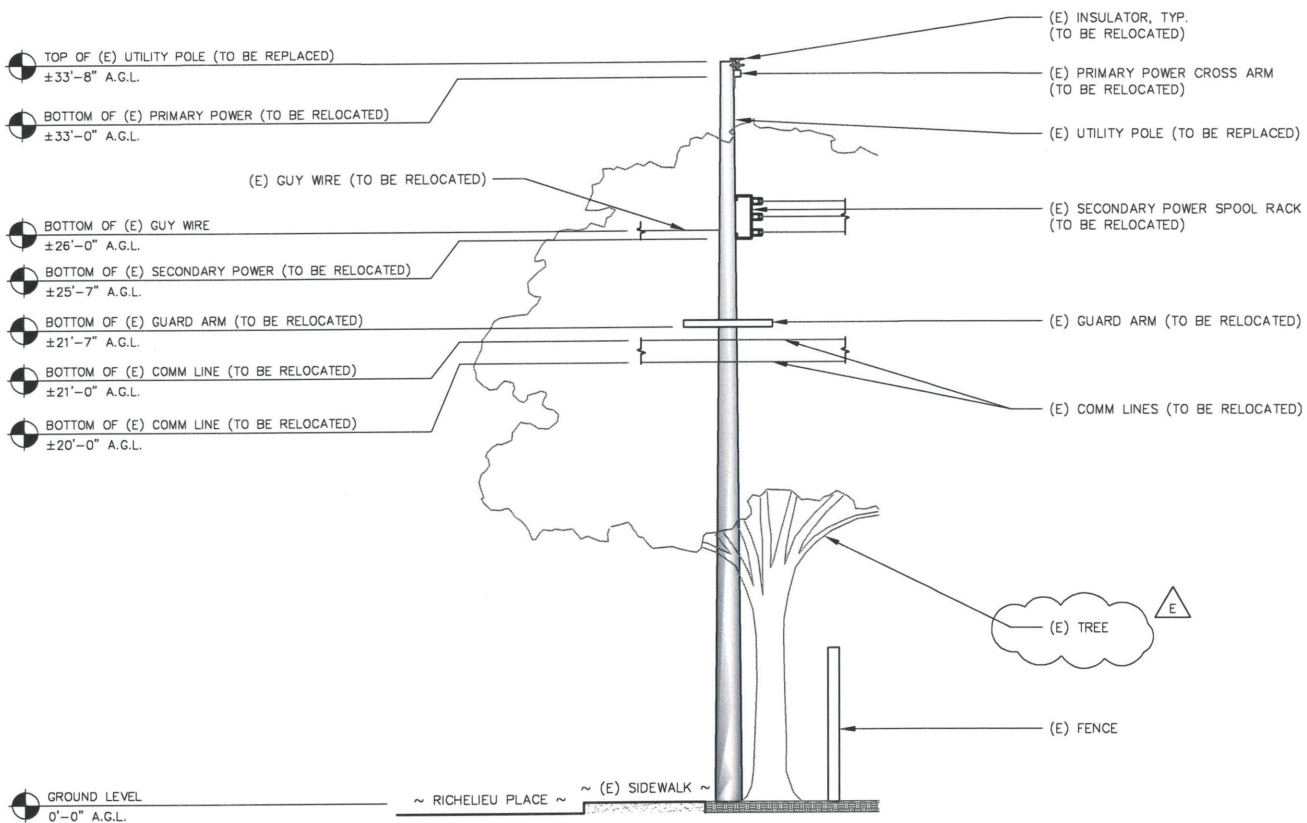


2 PROPOSED EQUIPMENT AND ANTENNA

SCALE: 1/2" = 1'-0"



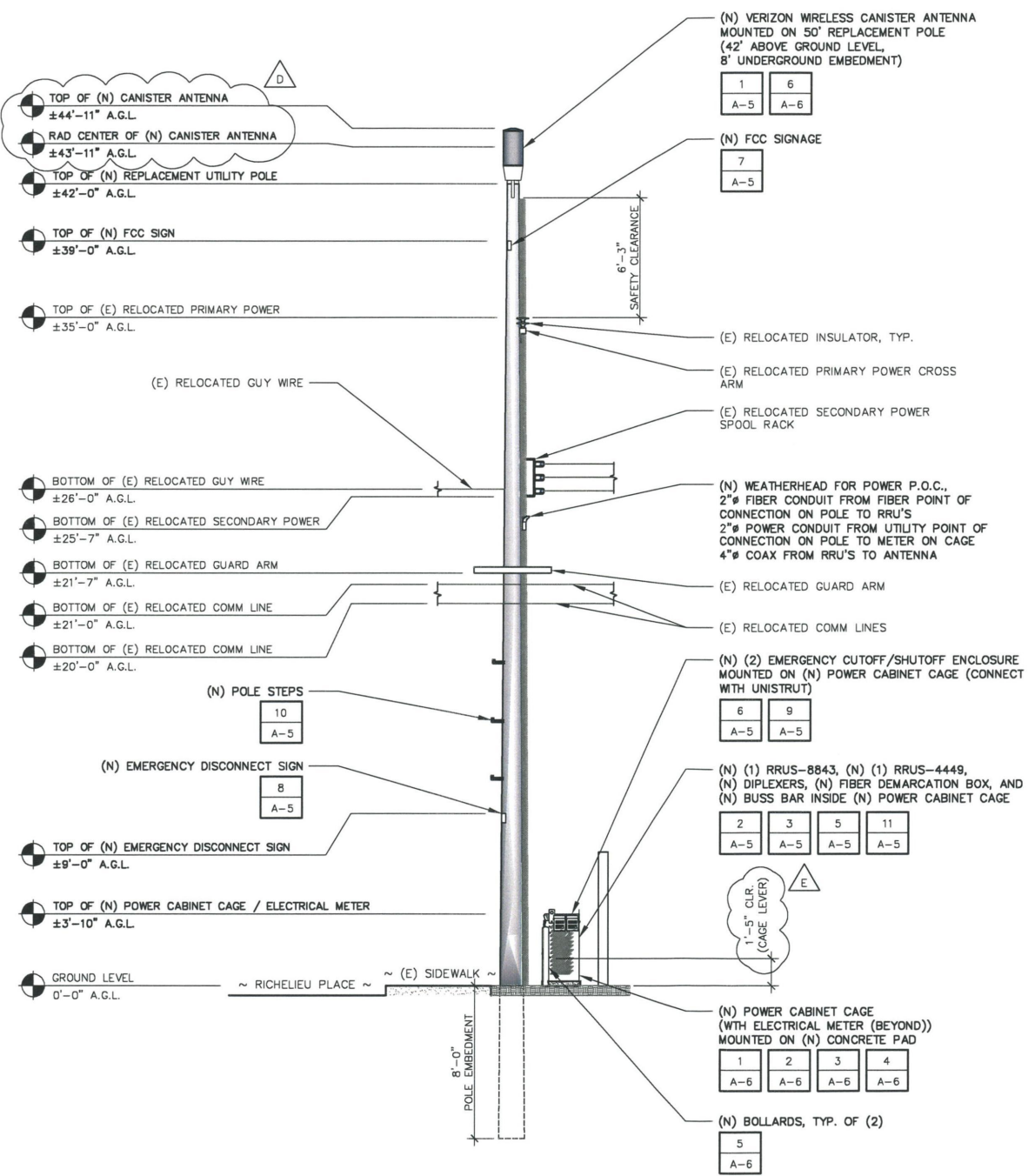
NOTE:  
PG&E WILL BE RESPONSIBLE FOR THE POLE REPLACEMENT, RELOCATIONS, AND ANY GROUND DISTURBANCE ASSOCIATED WITH SAID REPLACEMENT. VERIZON WILL NOT BE DISTURBING ANY GROUNDS WITH THIS WORK.



1 EXISTING NORTH ELEVATION

SCALE: 1/4" = 1'-0"  
0' 2' 4' 8' 12'

NOTE:  
ALL (N) EQUIPMENT TO BE PAINTED VALSPAR (6010-2 DEEP EARTH) EXCEPT RRUS  
TREE BETWEEN POLE AND POWER CABINET CAGE NOT SHOWN FOR CLARITY



2 PROPOSED NORTH ELEVATION

SCALE: 1/4" = 1'-0"  
0' 2' 4' 8' 12'



Engineer:  
**THE CBR GROUP**  
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Sheet Title: EXISTING AND PROPOSED NORTH ELEVATIONS

Sheet Number: A-3



PG&E WILL BE RESPONSIBLE FOR THE POLE REPLACEMENT, RELOCATIONS, AND ANY GROUND DISTURBANCE ASSOCIATED WITH SAID REPLACEMENT. VERIZON WILL NOT BE DISTURBING ANY GROUNDS WITH THIS WORK.

ALL (N) EQUIPMENT TO BE PAINTED VALSPAR  
(6010-2 DEEP EARTH) EXCEPT RRUS



Detailed description of Figure 6: This bar chart displays the percentage of genes versus the number of nucleotides in their coding sequences. The x-axis ranges from 0' to 12' nucleotides. The y-axis shows percentages from 0% to 100%. Black bars represent Eukaryotes, white bars represent Bacteria, and grey bars represent Archaea. Eukaryotes show a peak at 8' nucleotides (~75%). Bacteria and Archaea show broader distributions with peaks around 2'-4' and 4'-6' nucleotides.

Nucleotide Count	Eukaryotes (%)	Bacteria (%)	Archaea (%)
0'	0	~10	~10
1'	0	~10	~10
2'	0	~40	~30
3'	0	~30	~20
4'	~10	~20	~10
5'	~10	~10	~10
6'	~10	~10	~10
7'	~10	~10	~10
8'	~75	~10	~10
9'	~10	~10	~10
10'	~10	~10	~10
11'	~10	~10	~10
12'	~10	~10	~10









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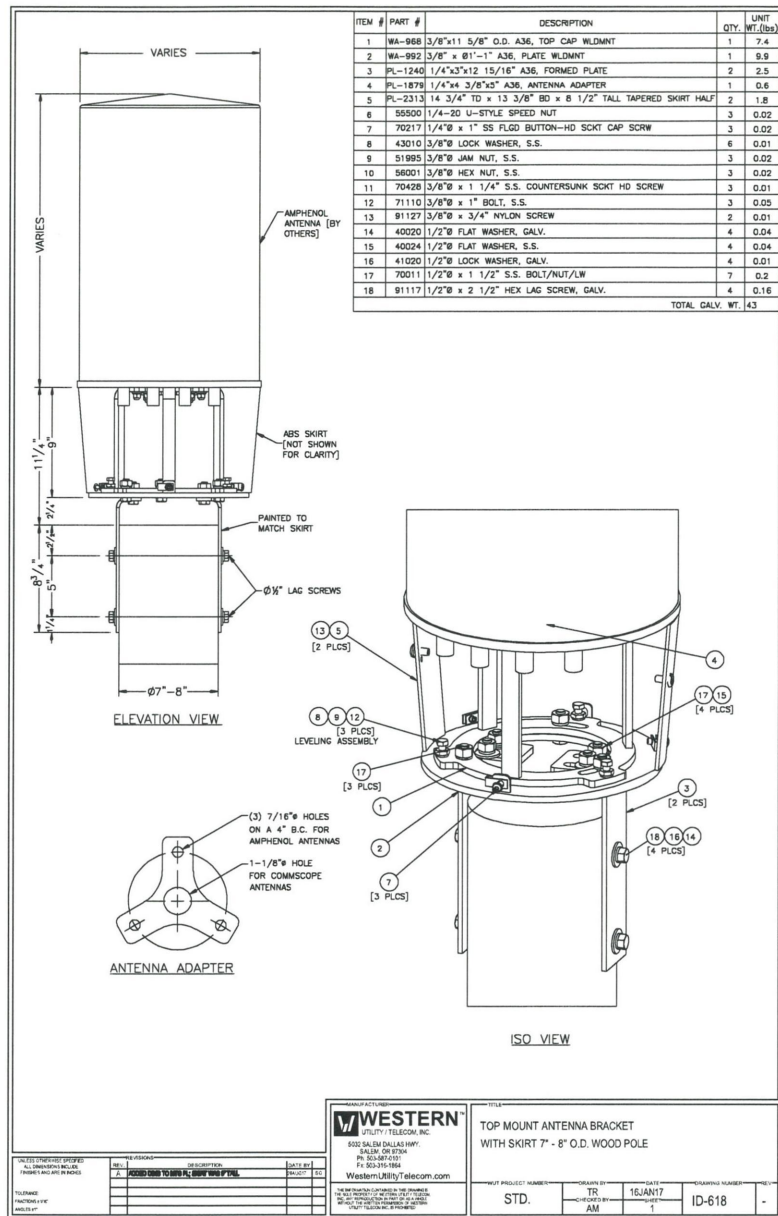
Licenser:

Sheet Title:

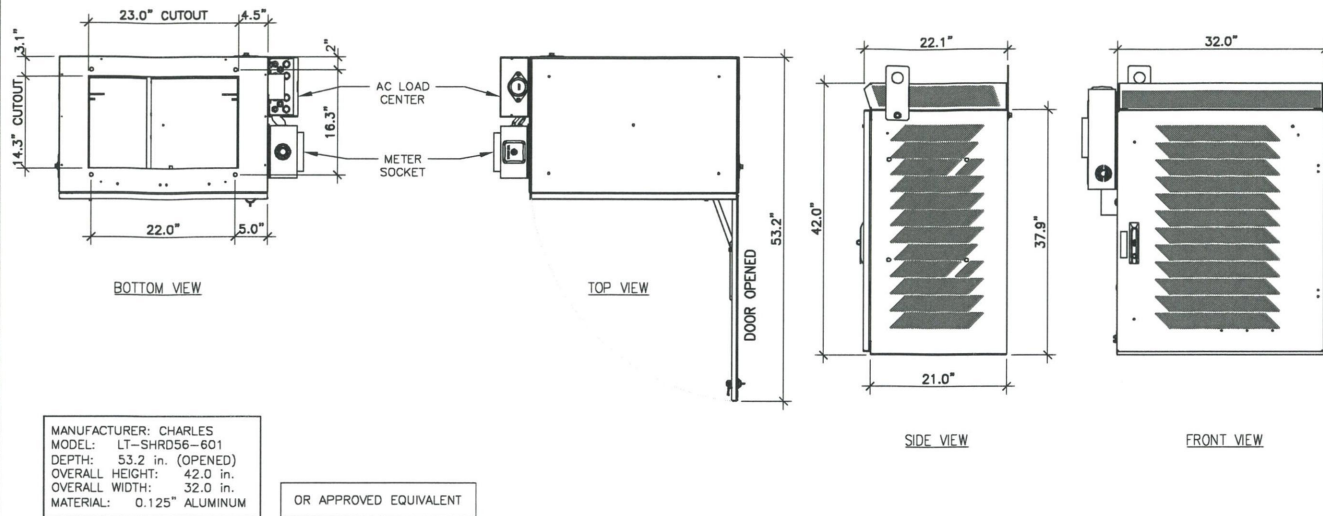
EQUIPMENT AND  
CONSTRUCTION DETAILS

Sheet Number:

A-6



OR APPROVED EQUIVALENT



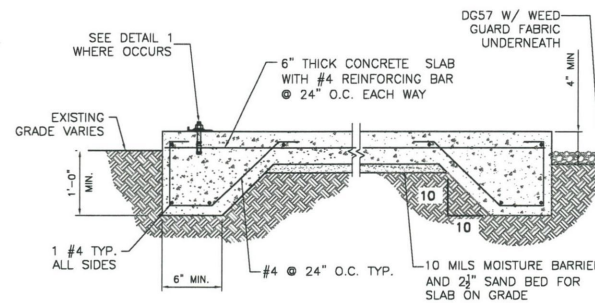
### POWER CABINET CAGE DETAIL

SCALE: 3  
N.T.S.

#### CONCRETE AND REINFORCING STEEL NOTES:

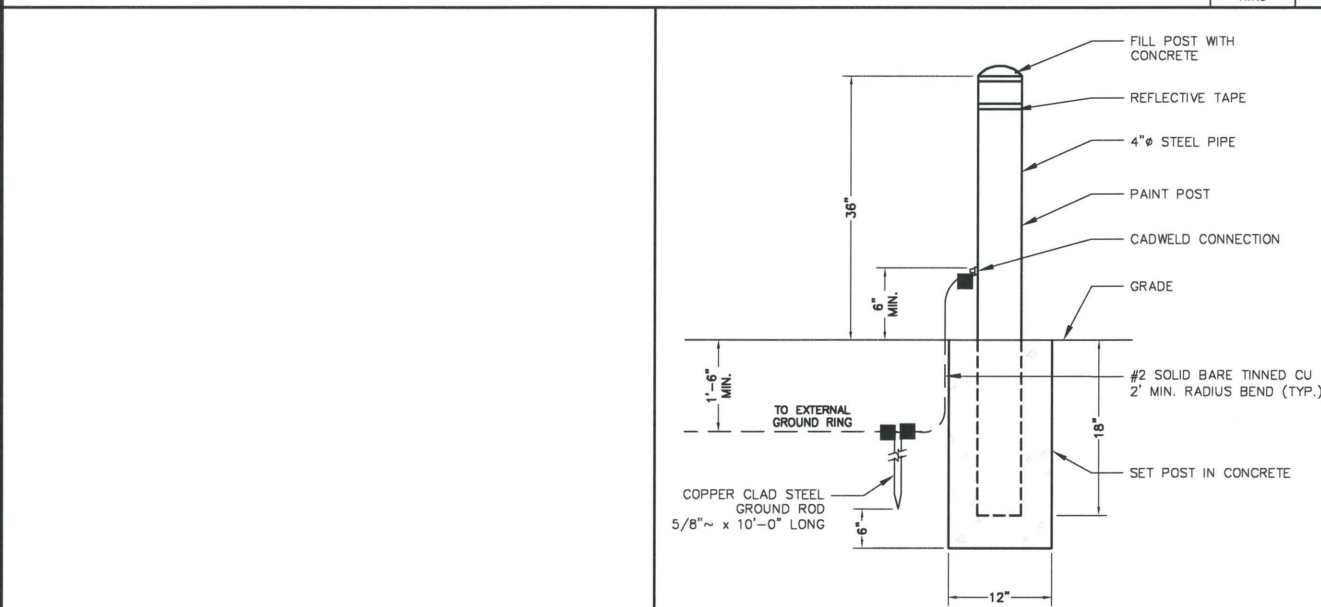
- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION PER CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED WELDED NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:  

CONCRETE CAST AGAINST EARTH.....	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 AND LARGER .....	2 IN.
#5 AND SMALLER & WWF .....	1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:	
SLAB AND WALL .....	3/4 IN.
BEAMS AND COLUMNS .....	1 1/2 IN.
- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. SPECIAL INSPECTIONS, WHEN REQUIRED BY GOVERNING CODES SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.
- GRAVEL SHALL BE NATURAL OR CRUSHED STONE WITH 100% PASSING 1 INCH SIEVE.
- DIMENSIONS SHOWN ARE EXACT MINIMUM PAD SIZES REQUIRED FOR EQUIPMENT LAYOUTS - CONTRACTOR MAY ROUND UP TO THE NEAREST FOOT (OR HALF FOOT) IF LEASE AREA AND SPACE PERMIT.



### TOP MOUNT ANTENNA BRACKET WITH SKIRT DETAIL

SCALE: 6  
N.T.S.



NOT USED

SCALE: 7  
N.T.S.

### BOLLARD DETAIL

SCALE: 5  
N.T.S.

### TRENCH DETAIL

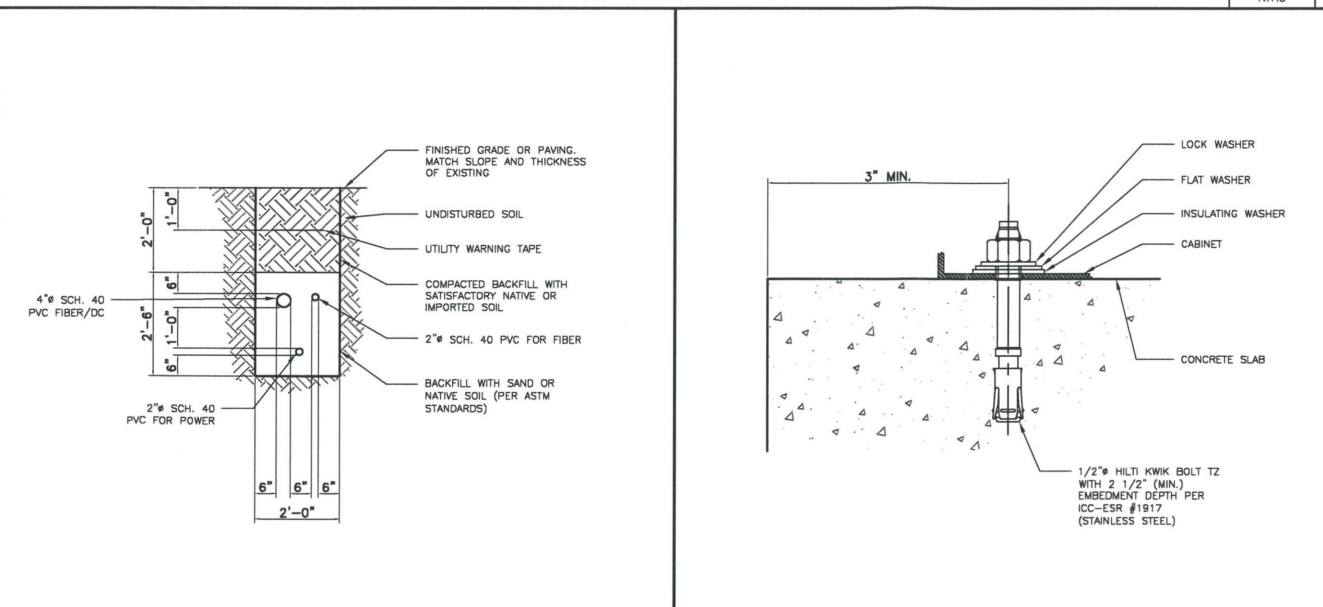
SCALE: 4  
N.T.S.

### ANCHORAGE DETAIL

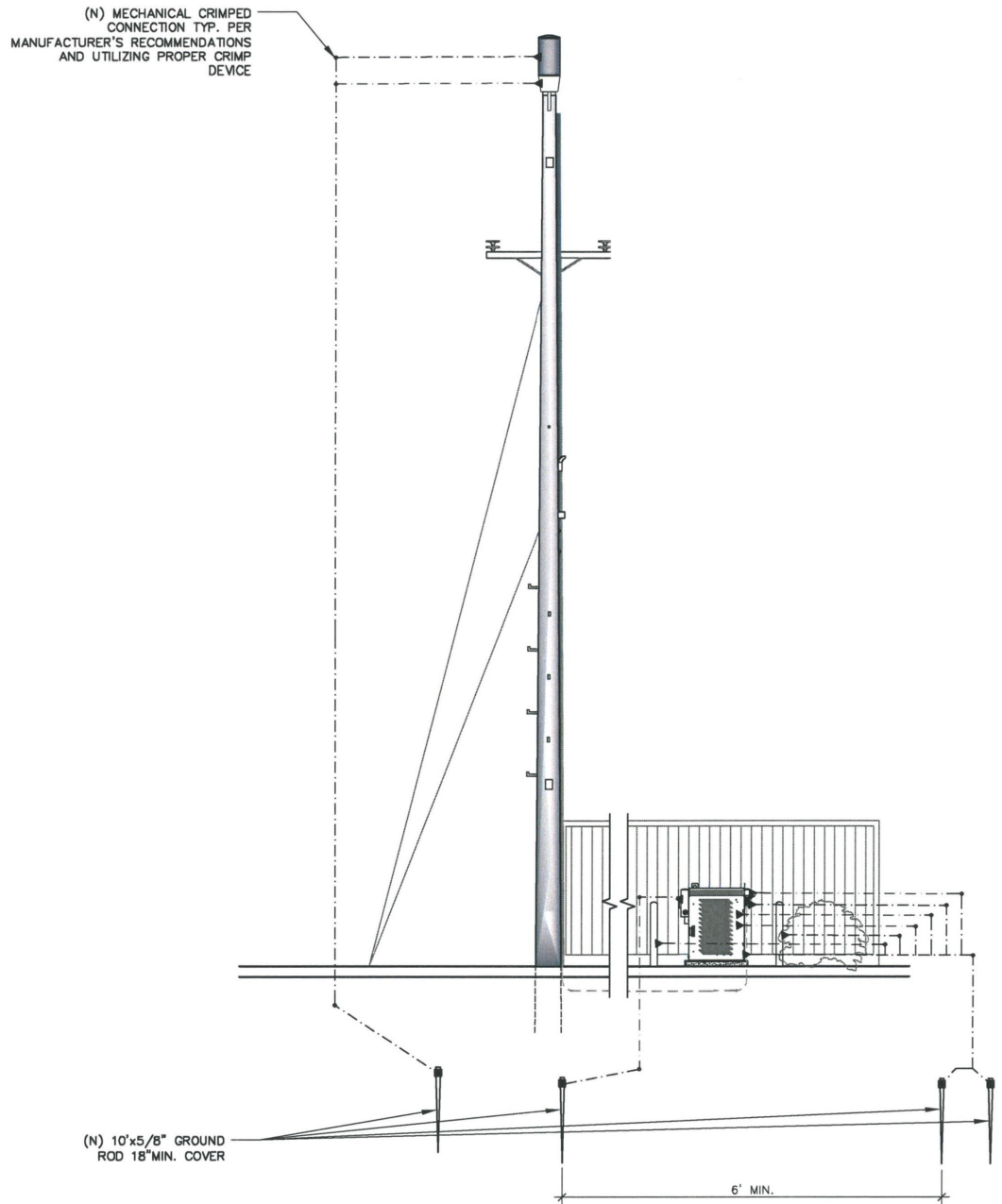
SCALE: 1  
N.T.S.

### CONCRETE PAD DETAIL

SCALE: 2  
N.T.S.







1 POLE GROUNDING DIAGRAM

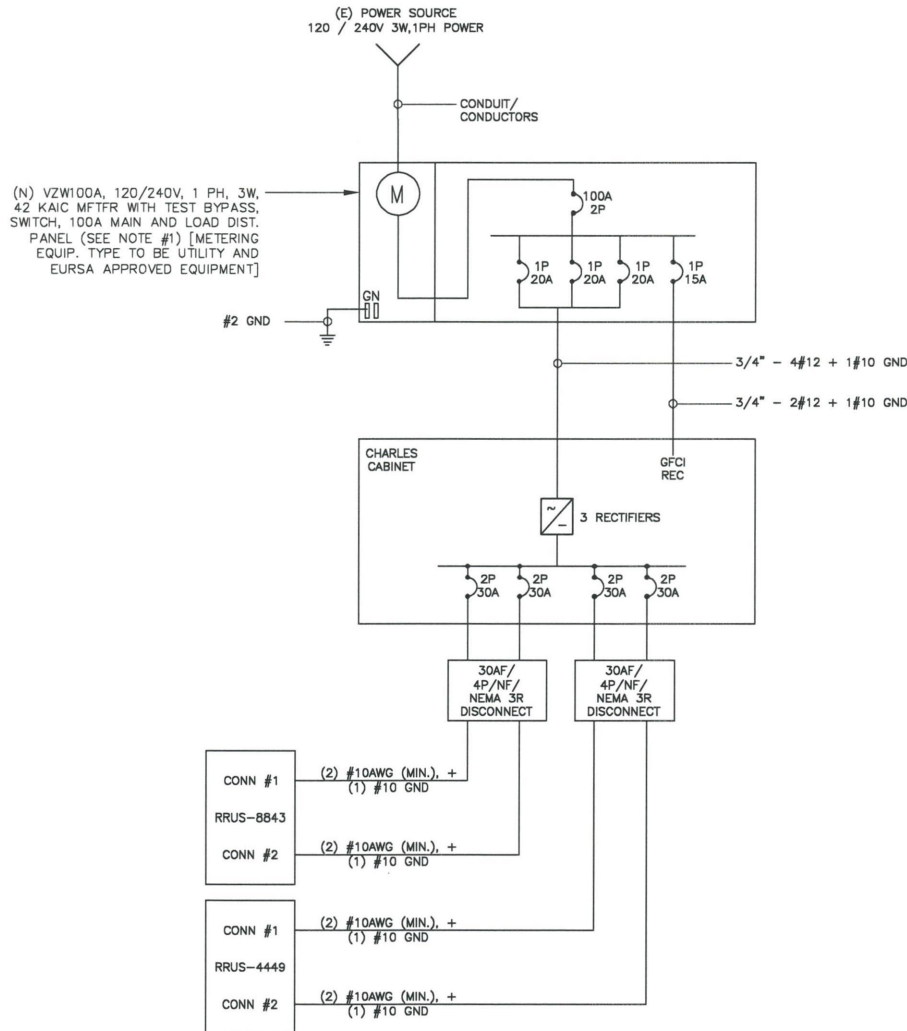
SCALE: 1/4" = 1'-0"

POWER AND TELCO CONNECTIONS:

1. POWER AND TELCO POINT OF CONNECTION AND ROUTE ARE PRELIMINARY AND SUBJECT TO CHANGE TO CONFIRMATION BY THE UTILITY COMPANIES RESPECTIVELY.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLAN 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, RISER TRENCHING, BACK FILL AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN THE SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.
5. SUBCONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/UTILITY CABINET.
6. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
7. SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.

GENERAL ELECTRICAL NOTES:

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.



LOAD CALCULATIONS-VERIZON WIRELESS

EXISTING LOAD: 0 AMPS  
NEW LOAD: 10.0 AMPS MAX  
NEW TOTAL LOAD: 10.0 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.

2 SINGLE LINE DIAGRAM

N.T.S.



2785 MITCHELL DRIVE, SUITE 9  
WALNUT CREEK, CA 94598

Engineer:



2840 HOWE ROAD, SUITE E  
MARTINEZ, CA 94553  
www.TheCBRGroup.com

Vendor:

Site Number:

427810

Site Name:

SUNNYVALE 005

Site Address:

574 FORT LARAMIE DRIVE  
(PG&E: 1592 RICHELIEU PL.)  
SUNNYVALE, CA 94087

County:

SANTA CLARA COUNTY

Issued For:

CONSTRUCTION

E	10/28/19	2ND PLAN CHECK COMMENTS	ALR	
D	10/09/19	PLAN CHECK COMMENTS	ALR	
C	07/24/19	DESIGN CHANGE	ALR	
B	06/07/19	100% CD'S FOR REVIEW	ALR	
A	05/24/19	90% CD'S FOR REVIEW	ALR	
REV	DATE	DESCRIPTION	BY	

Licenser:



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

Sheet Title:

ELECTRICAL GROUND DIAGRAMS

Sheet Number:

E-1





Engineer:



Vendor:

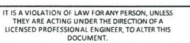
County: SANTA CLARA COUNTY

Issued For:

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A	05/24/19	90% CD'S FOR REVIEW	ALR
REV	DATE	DESCRIPTION	BY

Licensors:



Sheet Title:

## ELECTRICAL DETAILS

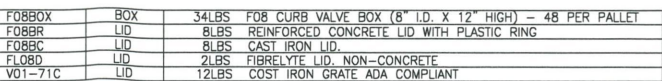
Sheet Number:

**E-2**



1. IF GROUND ROD IS INSTALLED IN SIDEWALK AREA, CORE DRILL SIDEWALK PRIOR TO INSTALLING INSPECTION WELL.
2. EXPOSED CONCRETE TO HAVE BROOM FINISH.

- NOTES:
- ETCHED POLYPROPYLENE FACE
  - FACE ANCHORED IN CONCRETE
  - ULTRA-VIOLET INHIBITOR
  - EXCEEDS ASTM-D1693 STANDARDS
  - FOR ENVIRONMENTAL STRESS CRACKING RESISTANCE

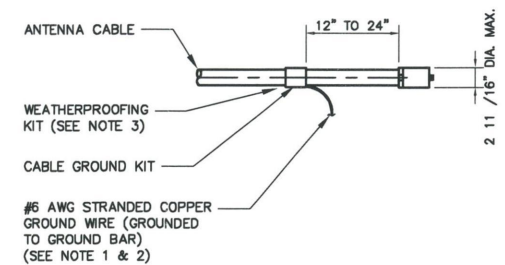


1. GALVANIZED STEEL GROUND BAR, "X 1/4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL
3. 5/8" LOCKWASHER, NEWTON INSTRUMENT CO. CAT. NO. 3015-B OR EQUAL
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL

- NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)







2785 MITCHELL DRIVE, SUITE 9  
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MARTINEZ, CA 94553  
[www.TheCBRGroup.com](http://www.TheCBRGroup.com)

Vendor:

Site Number: 427810

Site Name:  
SUNNYVALE 005

Site Address:  
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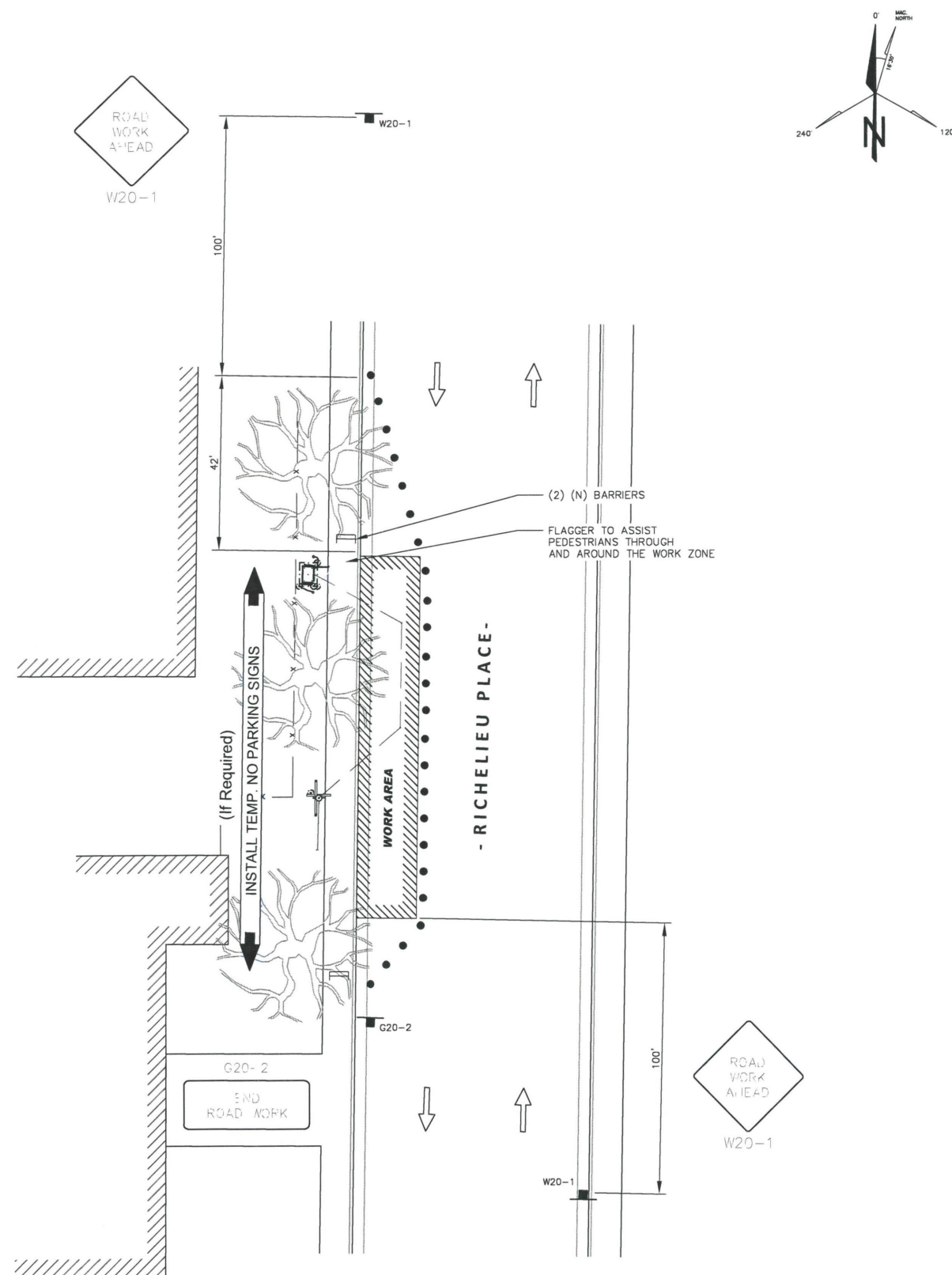
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DOCUMENT.

Sheet Title:

TRAFFIC CONTROL PLAN

Sheet Number:

# TCP



## GENERAL TRAFFIC CONTROL NOTES

TRAFFIC SHALL CONFORM TO THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE 2012 WATCH HANDBOOK.

ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES

ONE LANE OF TRAFFIC IN EACH DIRECTION AND ALL HIGH VOLUME  
TURNING LANES SHALL BE MAINTAINED AT ALL TIMES ON ALL STREETS  
AT A MINIMUM LANE WIDTH OF 10 FEET.

ANY CONFLICTING SIGNS, STRIPING AND PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED BEFORE TRAFFIC CONTROL IS IN PLACE. ANY SIGN, STRIPING OR PAVEMENT MARKING REMOVED OR COVERED SHALL BE REPLACED WHEN TRAFFIC CONTROL IS NO LONGER NECESSARY.

SAFE PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES.

NOTES:














- FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, ACCESSIBILITY ACCESS AND REQUIREMENTS ARE NOT REQUIRED, IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, PART 2, TITLE 24, SECTION 1103B.1, EXCEPTION 1 & SECTION 1134B.2.1, EXCEPTION 4.

**TABLE 6H-3 & 6H-4 - FROM THE 2014 CALIFORNIA MUTCD**

POSTED SPEED LIMIT - MPH	MEDIAN TAPER LENGTH "L" - FEET	SHIFTING TAPER LENGTH "L/2" - FEET	SHOULDER TAPER LENGTH "L/2" - FEET	SIGN SPACING ADVANCE OF TAPER & BETWEEN SIGNS - FEET
20	80	40	27	100
25	125	63	42	100
30	180	90	60	250
35	245	123	82	250
40	320	160	107	250
45	540	270	180	350
50	600	300	200	350
55	660	330	220	350

MAINTAIN DRIVEWAY ACCESS  
AT ALL TIME

LEGEND

- |   |   |
|---|---|
|  | TYPE III BARRICADE W/ SIGN                      |
|  | TYPE II BARRICADE W/ SIGN                       |
|  | CHANNELIZING DEVICE                             |
|  | TRAFFIC CONE WITH CLIP ON SIGN                  |
|  | SIGN  |
|  | SIGNALIZED INTERSECTION                         |
|  | ARROW PANEL (FLASHING ARROW) (WHERE REQUIRED)   |
|  | HIGH LEVEL WARNING DEVICE (FLAGTREE) (OPTIONAL) |
|  | FLAGGER   |
| TANS  | TOW AWAY NO STOPPING ___ TO ___ (SHOW HOURS)    |
| TANSAT  | TOW AWAY NO STOPPING ANY TIME                   |
|  | WORK ZONE (ACTIVITY AREA) LIMITS                |
|  | DIRECTION OF TRAFFIC (NOT PAVEMENT MARKING)     |
|  | ROADWAY DESIGNATION (A THROUGH D)               |
|  | SITE  |