

Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

ENCROACHMENT PERMIT No. E19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed plan/drawing showing the proposed work):

LOCATION OF WORK: 98 Eleanor Ave

TYPE OF WORK: Install equipment on existing utility pole

CONTRACTOR: Ericsson, Delbert Butcher **PHONE #** 720-317-7282

OWNER: PG&E, Jwo Cheng **PHONE #** 650-515-9842

APPLICANT: AT&T Mobility (New Cingular Wireless PCS),
Ivan Toews, SureSite Consulting, Agent **PHONE #** 949-278-2962

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any work in the traveled way section of a street.
- Applicant to construct Driveway/Walkway approach to the back of the existing rolled curb, without tying to the existing curb (cold joint).
- All work done in the City ROW shall comply with the City's Shoulder Paving Policy.
- Applicant shall provide adequate drainage with 3' wide AC swale (minimum of 4" AB plus 2" AC or 4" AC on compacted subbase is required) and conforms to existing street drainage.
- Contractor will be required to saw cut along the existing road pavement due to severe damaged edge.
- New sidewalk or curb shall be constructed per City Standards and connected to existing sidewalk or curb with #4, 16" long dowels @ 12" o.c. All saw cuts to be done at existing joints.
- Comments: _____

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ **DATE:** _____

ISSUED BY: _____ **DATE:** _____

SIGNATURE

INSPECTED BY: _____ **FINAL INSPECTION DATE:** _____

ATTACHMENT:

YES _____ **\$196.00** CREDIT CHECK CASH

NO _____

Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant and Finance

PERMIT VALID FOR 60 DAYS
 (See other side for General Requirements)

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B.** Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C.** The City may require modifications to this permit as needed because of special field conditions.
- D. NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E.** This permit does not authorize excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F.** This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G.** This permit is valid for **sixty (60) days** from the approval date unless otherwise noted.
- H.** Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- I.** Use of a Flashing Arrow Panel is **MANDATORY** when work location is within a 35 MPH speed zone.
- J.** Traffic conditions and adequate protection of the public in the vicinity of the job site shall be the responsibility of the applicant. During construction activities, two-way traffic shall be maintained. A minimum of one traffic lane shall be kept passable and under the control of competent flag persons. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable.
- K.** Any damage to painted street pavement delineations, markings or reflectors and painted curbs shall be restored as approved by the Engineer.
- L.** Excavations within the asphalt street section shall be backfilled before leaving the work for the night, unless otherwise authorized by the City's representative. Temporary surfacing shall be placed on the trench surface overnight.
- M.** All trench backfill requires certified compaction test to 95% density or greater for each lift (Maximum lift of 12") or use Controlled Density Fill (CDF) as approved.
- N.** All work shall be performed in accordance with the latest issue of Cal O.S.H.A. Safety Orders. The City has not checked trench safety and trench safety is not implied with this permit.
- O.** Landscaping is **NOT** to be disturbed any more than absolutely necessary. Restoration shall be to property owner's satisfaction.
- P.** Drainage patterns during construction shall be maintained to insure that surface drainage is properly managed and surrounding areas are protected from damage. Restoration must be to grades necessary to maintain original condition and maintain proper drainage flow lines.

Q. Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

R. All saw cut sludge/slurry should be immediately removed by means of a vacuum system.

EXHIBIT B INSURANCE

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022

Minimum Scope of Insurance

Coverage shall be *at least as broad as*:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.

3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.

4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability

insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.

6. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the umbrella or excess policy with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations. If CONSULTANT maintains broader coverage, umbrella or excess coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage, umbrella or excess coverage and/or the higher limits maintained by CONSULTANT. Any available insurance proceeds in excess of the specified minimum limits of insurance and any other coverages shall be available to the CITY.

Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy and the Automobile Liability policy, with endorsements under CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage, with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations.

Primary Coverage. For any claims related to this contract, the CONSULTANT’s insurance coverage shall be primary insurance as respects the CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, or volunteers shall be excess of the CONSULTANT’s insurance and shall not contribute with it.

Notice of Cancellation. Each insurance policy required above shall be endorsed to state that coverage shall not be canceled except after thirty (30) days’ prior written notice (10 days for non-payment) has been given to the CITY.

Waiver of Subrogation. CONSULTANT hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONSULTANT may acquire against the CITY by virtue of the payment of any loss under such insurance. CONSULTANT agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by the CITY. The CITY may require the CONSULTANT to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

Claims Made Policies. If any of the required policies provide claims-made coverage:

7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.
8. Insurance must be maintained and evidence of insurance must be provided *for at least three (3) years after completion of the contract work.*

9. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONSULTANT must purchase “extended reporting” coverage for a minimum of *three (3)* years after completion of contract work.

Verification of Coverage. CONSULTANT shall furnish the CITY with original certificates and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the CITY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONSULTANT’s obligation to provide them. The CITY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

TEMPORARY LANE CLOSURE PERMIT LC19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed drawing showing the proposed location(s)):

LOCATION: 98 Eleanor Ave
 TYPE OF WORK: Install equipment on existing utility pole
 DATE(S) REQUESTED: 3/21/2019
 CONTRACTOR: Ericsson, Delbert Butcher PHONE # 720-317-7282
 OWNER: PG&E, Jwo Cheng PHONE # 650-515-9842
 APPLICANT: AT&T Mobility (New Cingular Wireless PCS), PHONE # 949-278-2962
Ivan Toews, SureSite Consulting, Agent

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any lane or road closure.
- Comments:**

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ DATE: _____

ISSUED BY: _____ DATE: _____

SIGNATURE

INSPECTED BY: _____ FINAL INSPECTION DATE: _____

APPLICATION FEE (includes the first day):	\$ 505.00
0 additional days at \$62/day:	\$ -
TOTAL FEES:	\$ 505.00

ATTACHMENT:

YES Traffic Control Plan CREDIT CHECK CASH
 NO _____ Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant, Police Department, and Finance

PERMIT VALID FOR _____ DAYS
 See other side for General Requirements

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B.** Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C.** The City may require modifications to this permit as needed because of special field conditions.
- D. NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E.** This permit does not authorize any excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F.** This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G.** Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- H.** Use of a Flashing Arrow Panel is MANDATORY when work location is within a 35 MPH speed zone.
- I.** Traffic conditions and adequate protection of the public in the vicinity of the stall(s) shall be the responsibility of the applicant. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable
- J.** Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

**EXHIBIT B
INSURANCE**

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022

Minimum Scope of Insurance

Coverage shall be *at least as broad as:*

CONSULTANT shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: **Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022**

Minimum Scope of Insurance

Coverage shall be *at least as broad as:*

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.
3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.
4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.
6. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the umbrella or excess policy with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations. If CONSULTANT maintains broader coverage, umbrella or excess coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage, umbrella or excess coverage and/or the higher limits maintained by CONSULTANT. Any available insurance proceeds in excess of the specified minimum limits of insurance and any other coverages shall be available to the CITY.

Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy and the Automobile Liability policy, with endorsements under CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage, with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations.

Primary Coverage. For any claims related to this contract, the CONSULTANT’s insurance coverage shall be primary insurance as respects the CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, or volunteers shall be excess of the CONSULTANT’s insurance and shall not contribute with it.

Notice of Cancellation. Each insurance policy required above shall be endorsed to state that coverage shall not be canceled except after thirty (30) days’ prior written notice (10 days for non-payment) has been given to the CITY.

Waiver of Subrogation. CONSULTANT hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONSULTANT may acquire against the CITY by virtue of the payment of any loss under such insurance. CONSULTANT agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by the CITY. The CITY may require the CONSULTANT to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

Claims Made Policies. If any of the required policies provide claims-made coverage:

7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.

8. Insurance must be maintained and evidence of insurance must be provided *for at least three (3) years after completion of the contract work.*
9. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONSULTANT must purchase “extended reporting” coverage for a minimum of *three (3)* years after completion of contract work.

Verification of Coverage. CONSULTANT shall furnish the CITY with original certificates and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the CITY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONSULTANT’s obligation to provide them. The CITY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name: CRAN_RSFR_LOSA0_07	Site Structure Type: Utility Pole
Address: 98 Eleanor Avenue Los Altos, California	Latitude: 37.38005
Report Date: October 29, 2018 rev1	Longitude: -122.10975
	Project: New Build

General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed CRAN_RSFR_LOSA0_07 site located at 98 Eleanor Avenue, Los Altos, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by AT&T Mobility.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure (“MPE”) limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

Frequency (MHz)	<i>Limits for General Population/ Uncontrolled Exposure</i>		<i>Limits for Occupational/ Controlled Exposure</i>	
	Power Density (mW/cm ²)	Averaging Time (minutes)	Power Density (mW/cm ²)	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

AT&T Mobility proposes the following installation at this location:

- Install 1 KMW FX-OM2LIOH2 Cylindrical Antenna
- Install 1 4415 Radio
- Install 1 RRUS-11 Radio

The antenna will be mounted on a 39.1-foot Utility Pole with a centerline 47.3 feet above ground level. The antenna is quasi-omnidirectional and will radiate in all directions. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 987 Watts. Other appurtenances such as GPS antennas, RRUs and hybrid cable are not sources of RF emissions. From this site, AT&T Mobility will enhance voice and data services to surrounding areas in licensed 700 and 1900 MHz bands. No other antennas are known to be operating in the vicinity of this site.

Power density decreases significantly with distance from any antenna. The quasi-omnidirectional antenna to be employed at this site is operating at relatively low power and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antenna. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.3780% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.8465% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or at adjacent buildings by 5% of the General Population limits.

For areas on the pole that are predicted to exceed the General Population limits, Waterford Consultants, LLC recommends that AT&T Mobility post an RF alerting sign (Caution) on the pole 42 feet above ground level to be visible upon approach by authorized personnel to provide notification of potential conditions above this level. This recommendation is depicted in Figure 2. Any work activity in front of transmitting antennas should be coordinated with AT&T Mobility.



Figure 1: Antenna Locations

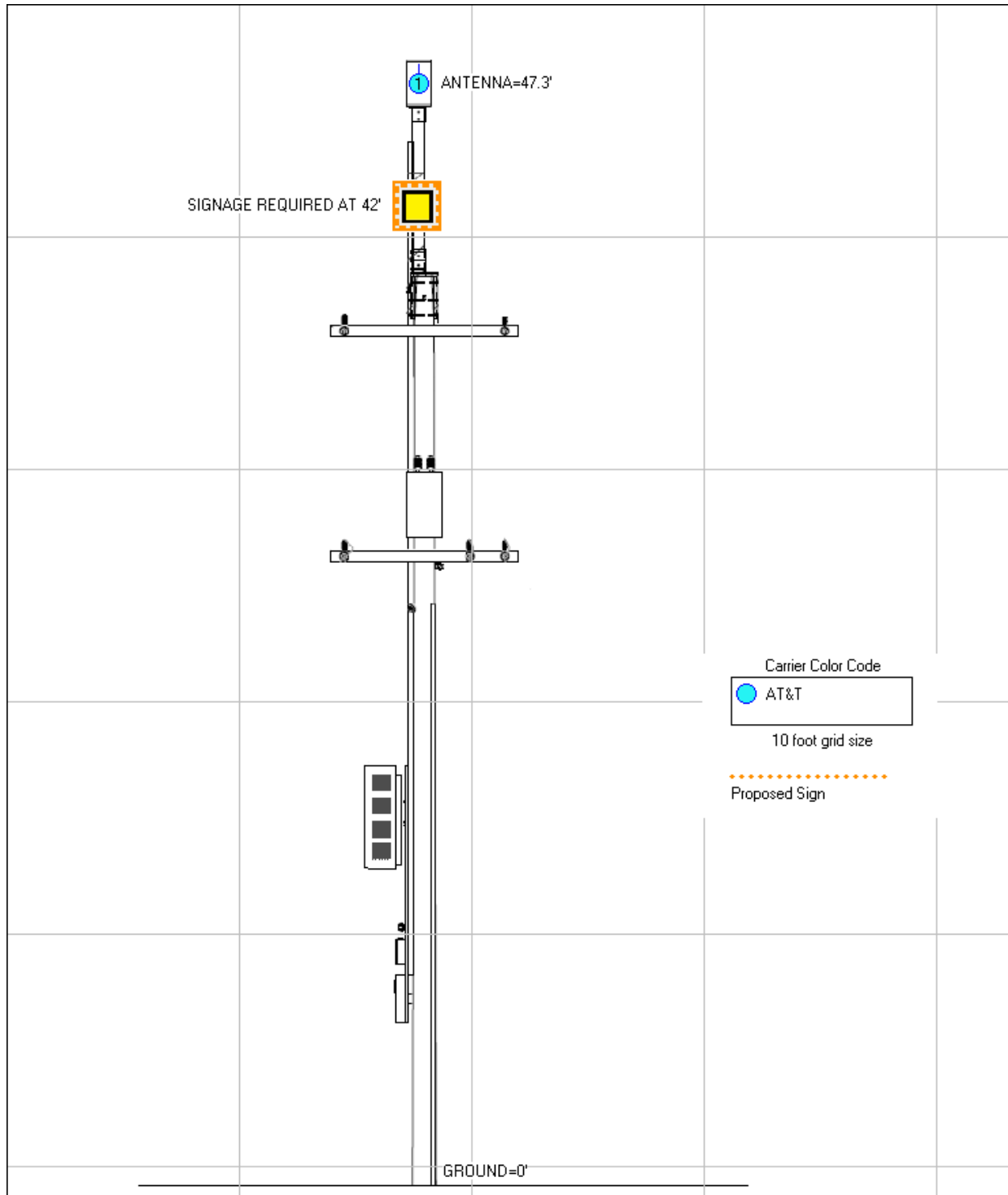


Figure 2: Mitigation Recommendations

 Caution

Compliance Statement

Based on information provided by AT&T Mobility, predictive modeling and the mitigation action to be implemented by AT&T Mobility, the installation proposed by AT&T Mobility at 98 Eleanor Avenue, Los Altos, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to these areas to authorized personnel that have completed RF safety training is required for Occupational environment compliance.

Certification

I, David H. Kiser, am the reviewer and approver of this report and 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, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.





October 31, 2018

Suresite for AT&T
36 Executive Park, Suite 210
Irvine, CA 92614

Subj: CRAN_RSFR_LOSA0_007

We have analyzed the wood pole at ROW adjacent to 98 Eleanor Avenue, Los Altos, CA 94002 (37.380028, -122.109739) using O-Calc Pro 5.03 Utility Pole software.

Data for the wood pole was obtained from a previous site walk and photographs on May 23, 2018, as well as Google Earth images. Proposed equipment is provided by our client. Based on our analysis the pole with proposed loading is at 45.4% capacity and may be **considered adequate to support the proposed loads.**

Please contact me if you have any questions.

Sincerely,

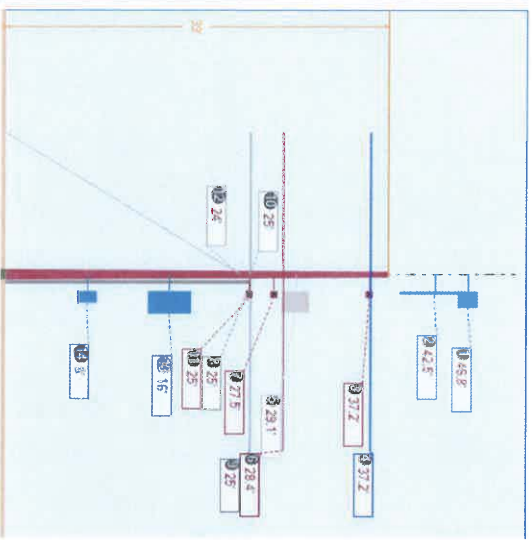
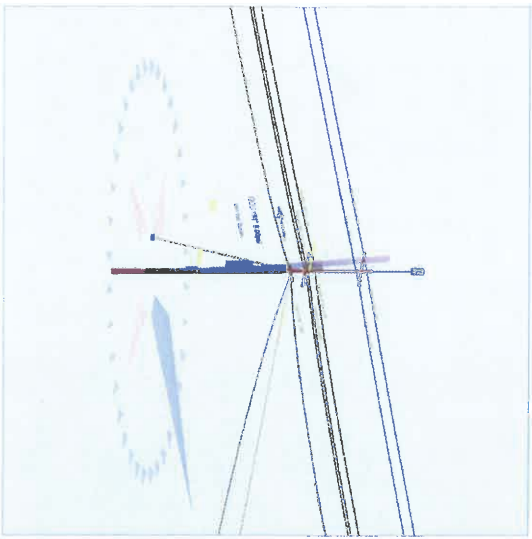
Bret McComb, P.E.



Attachments:

1. O-Calc Output: 5 pages
2. Pole Size Chart: 1 page

Pole Num:	CRAN_RSFR_LOSA0_07	Pole Length / Class:	45 / 5	Code:	GO 95	Structure Type:	Guyed Tangent
Aux Data 1	Unset	Species:	DOUGLAS FIR	NEESC Rule:	-	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.00	Construction Grade:	B	Pole Strength Factor:	0.50
Aux Data 3	Unset	G/L Circumference (in):	32.50	Loading District:	Light	Transverse Wind LF:	1.00
Aux Data 4	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.00	Wire Tension LF:	1.00
Aux Data 5	Unset	Allowable Stress (psi):	3,868	Wind Speed (mph):	55.90	Vertical LF:	1.00
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	8.00		
Latitude:		Longitude:	37.380028 Deg	Elevation:	-122.109739 Deg		209 Feet



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Crossarm allowance 300 lbs		
Maximum	45.4	180.7
Groundline	45.4	180.7
Vertical	4.0	23.9

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Crossarm allowance 300 lbs		
Max Cap Util	15,564	170.8
Groundline	15,564	170.8
GL Allowable	35,031	180.7

Guy System Component Summary

Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Load From Worst Wind Angle on Pole		Individual Maximum Load	
				Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
▶ Anchor	225.0	90.0	25.0	0.0	180.7	2.1	270.0
• EHS 3/8 (Span/Head)			25.0	0.0	180.7	2.7	270.0
▶ Single - 14" - Soil Class 4	8.0	270.0	24.0	5.2	180.7	14.4	90.0
• HS 3/16 (Down)			24.0	28.5	180.7	77.7	90.0
• HS 3/16 (Down)			25.0	28.3	180.7	78.7	90.0

System Capacity Summary:

Adequate	Adequate
----------	----------

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 170.8°

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	-1	-0.1	13	0.1	0.0	1	72	1	2	0.1
Comms	146	23.4	3,740	24.0	10.7	404	98	1	405	10.5
GuyBraces	-27	-4.3	-661	-4.3	-1.9	-71	1,194	14	-57	-1.5
GenericEquipments	119	19.0	2,782	17.9	7.9	300	213	3	303	7.8
PowerEquipments	40	6.4	1,691	10.9	4.8	183	365	4	187	4.8
Pole	210	33.6	4,146	26.6	11.8	447	877	10	458	11.8
Crossarms	77	12.4	2,589	16.6	7.4	279	134	2	281	7.3
Risers	47	7.5	810	5.2	2.3	87	25	0	88	2.3
Insulators	13	2.1	454	2.9	1.3	49	50	1	50	1.3
Pole Load	624	100.0	15,564	100.0	44.4	1,680	3,028	36	1,716	44.4
Pole Reserve Capacity			19,467		55.6	2,188			2,152	55.6

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 170.8°

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
<Undefined>	414	66.4	11,418	73.4	32.6	1,232	2,151	26	1,258	32.5
Pole	210	33.6	4,146	26.6	11.8	447	877	10	458	11.8
Totals:	624	100.0	15,564	100.0	44.4	1,680	3,028	36	1,716	44.4

Detailed Load Components:

Power	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Primary	AAC 1 AWG 7 STRAND PANSY	37.17	40.12	0.3280	1.63	0.078	164.0	0.0	164.0	500	-18,342	0	-1	-18,343
Primary	AAC 1 AWG 7 STRAND PANSY	37.17	40.12	0.3280	1.63	0.078	164.0	0.0	164.0	500	-18,342	0	-1	-18,344
Primary	AAC 1 AWG 7 STRAND PANSY	37.17	42.02	0.3280	1.13	0.078	127.0	180.0	127.0	500	18,342	1	-1	18,342
Primary	AAC 1 AWG 7 STRAND PANSY	37.17	42.02	0.3280	1.13	0.078	127.0	180.0	127.0	500	18,342	0	-1	18,341
Secondary	TRIPLEX 6 AWG	28.35	40.36	0.5800	1.75	0.113	127.0	180.0	127.0	300	8,403	-1	-1	8,401
Secondary	TRIPLEX 6 AWG	28.35	40.36	0.5800	2.41	0.113	164.0	0.0	164.0	300	-8,403	-1	-2	-8,406

Secondary	TRIPLEX 6 AWG	28.35	40.36	0.5800	2.41	0.113	164.0	0.0	164.0	300	-8,403	9	-2	-8,396
Secondary	TRIPLEX 6 AWG	28.35	40.36	0.5800	1.75	0.113	127.0	180.0	127.0	300	8,403	7	-1	8,409
Secondary	TRIPLEX 6 AWG	28.35	20.72	0.5800	1.75	0.113	127.0	180.0	127.0	300	8,403	5	-1	8,407
Secondary	TRIPLEX 6 AWG	28.35	20.72	0.5800	2.41	0.113	164.0	0.0	164.0	300	-8,403	7	-2	-8,398
Totals:											0	27	-14	13

Comm	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Telco	TELE 10	25.00	6.30	1.0000	5.18	0.400	200.0	90.0	200.3	500	2,008	3	1,645	3,656
Telco	TELE 10	25.00	6.30	1.0000	2.62	0.400	127.0	180.0	127.1	500	12,338	2	-2	12,338
Telco	TELE 10	25.00	6.30	1.0000	3.80	0.400	164.0	0.0	164.2	500	-12,338	3	-3	-12,338
Totals:											2,008	8	1,640	3,656

Generic Equipment	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Cylinder	3" Dia 7" Steel Pipe	42.50	0.33	0.0	0.0	53.06	84.00	--	3.00	--	-1	586	585
Cylinder	Antenna-KMW FX-OM2LI OH2	46.75	0.17	180.0	0.0	20.00	24.00	--	16.00	--	0	893	893
Box	Housing For RRUs	16.00	12.29	270.0	0.0	130.00	53.00	16.00	--	23.00	-21	1,187	1,165
Box	100amp Meter	8.00	7.04	270.0	0.0	10.00	24.00	4.63	--	12.00	-1	77	77
Totals:											-23	2,743	2,720

Power Equipment	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Transformer	1PH-25KVA	29.08	16.57	180.0	180.0	365.00	33.00	--	22.00	--	497	1,155	1,653
Totals:											497	1,155	1,653

Crossarm	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Normal	CROSSARM 3-1/2 X 4-1/2 X 8	37.17	4.87	180.0	180.0	180.0	53.00	4.50	3.50	96.00	21	1,408	1,430
Normal	CROSSARM 3-1/2 X 4-1/2 X 8	27.50	5.41	180.0	180.0	180.0	53.00	4.50	3.50	96.00	24	1,042	1,066
Normal	CROSSARM 3-1/2 X 4-1/2 X 4	25.00	5.55	90.0	90.0	90.0	28.00	4.50	3.50	48.00	2	34	36
Totals:											47	2,484	2,531

Riser	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Riser 135.0°	Riser	25.00	5.28	135.0	135.0	25.00	300.00	4.00	4.00	300.00	9	783	792
Totals:											9	783	792

Insulator	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment** (ft-lb)	Moment at GL* (ft-lb)	
Deadend		Deadend 12.75"	37.17	-40.00	96.9	180.0	3.00	3.80	8.00	1	62	63
Deadend		Deadend 12.75"	37.17	40.00	263.1	180.0	3.00	3.80	8.00	-2	62	59
Deadend		Deadend 12.75"	37.17	-40.00	96.9	0.0	3.00	3.80	8.00	5	62	67
Deadend		Deadend 12.75"	37.17	40.00	263.1	0.0	3.00	3.80	8.00	2	62	63
Post		Post Insulator - 15 KV	27.69	40.00	262.3	0.0	11.00	4.75	8.00	-1	58	57
Post		Post Insulator - 15 KV	27.69	-40.00	97.7	0.0	11.00	4.75	8.00	11	58	69
Post		Post Insulator - 15 KV	27.69	-20.00	105.1	0.0	11.00	4.75	8.00	8	58	66
Bolt		Single Bolt	25.00	0.00	90.0	90.0	5.00	3.00	0.00	0	0	0
Totals:									23	421	444	

Guy Wire and Brace	Owner	Attach Height (ft)	End Height (ft)	Lead/Span Length (ft)	Wire Diameter (in)	Percent Solid (%)	Lead Angle (deg)	Incline Angle (deg)	Wire Weight (lbs/ft)	Rest Length (ft)	Stretch Length (in)	
EHS 3/8		Span/Head	25.00	25.00	225.00	0.375	75.00	90.0	0.0	0.273	222.26	0.00
HS 3/16		Down	24.00	0.00	8.00	0.188	75.00	270.0	71.3	0.073	30.97	0.48
HS 3/16		Down	25.00	0.00	8.00	0.188	75.00	270.0	72.0	0.073	31.94	0.49

Guy Wire and Brace (Loads and Reactions)	Elastic Modulus (psi)	Rated Tensile Strength (lbs)	Guy Strength Factor	Allowable Tension (lbs)	Initial Tension (lbs)	Loaded Tension*2 (lbs)	Maximum Tension*2 (lbs)	Applied Tension*3 (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL* (ft-lb)	
EHS 3/8		Span/Head	2.30e+7	15,400	0.75	11,550	700	309	309	0	0	697	
HS 3/16		Down	2.30e+7	2,850	0.75	2,138	700	1,661	1,661	610	195	-675	
HS 3/16		Down	2.30e+7	2,850	0.75	2,138	700	1,682	1,682	576	187	-669	
Totals:										1,154	382	-61	-647

Anchor/Rod Load Summary	Owner	Rod Length AGL (in)	Lead Length (ft)	Lead Angle (deg)	Strength of Assembly (lbs)	Anchor/Rod Strength Factor	Allowable Load (lbs)	Max Load*2 (lbs)	Load at Pole MCU*3 (lbs)	Max Required Capacity*4 (%)
Anchor		30.00	225.00	90.0	20,000	0.75	15,000	309	0	2.1
Single - 14" - Soil Class 4		0.00	8.00	270.0	31,000	0.75	23,250	3,342	1,216	14.4

Pole Buckling	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety	
	0.71	23.95	33.83	9.45	9.26	6.05	10.35	1.60e+6	60.00	57.00	39.00	74.469	757.03	25.00

User: Nemesis Nemesis OCP.5.03

* Includes Load Factor(s)

Page 5 of 5

² Worst Wind Per Guy Wire

³ Wind At 180.7°

DOUGLAS FIR POLE SIZING CHART

Class	H-6	H-5	H-4	H-3	H-2	H-1	1	2	3	4	5	6
Minimum Circumference at Top (Inches)	39	37	35	33	31	29	27	25	23	21	19	17
Length of Pole (Feet)	Minimum Circumference at 6 feet from Butt (Inches)											
20	-	-	-	-	-	-	31.0	29.0	27.0	25.0	23.0	21.0
25	-	-	-	-	-	-	33.5	31.5	29.5	27.5	25.5	23.0
30	-	-	-	-	-	-	36.5	34.0	32.0	29.5	27.5	25.0
35	-	-	-	-	43.5	41.5	39.0	36.5	34.0	31.5	29.0	27.0
40	-	-	51.0	48.5	46.0	43.5	41.0	38.5	36.0	33.5	31.0	28.5
45	58.5	56.0	53.5	51.0	48.5	45.5	43.0	40.5	37.5	35.0	32.5	30.0
50	61.0	58.5	55.5	53.0	50.5	47.5	45.0	42.0	39.0	36.5	34.0	-
55	63.5	60.5	58.0	55.0	52.0	49.5	46.5	43.5	40.5	38.0	-	-
60	65.5	62.5	59.5	57.0	54.0	51.0	48.0	45.0	42.0	39.0	-	-
65	67.5	64.5	61.5	58.5	55.5	52.5	49.5	46.5	43.5	40.5	-	-
70	69.0	66.5	63.5	60.5	57.0	54.0	51.0	48.0	45.0	41.5	-	-
75	71.0	68.0	65.0	62.0	59.0	55.5	52.5	49.0	46.0	-	-	-
80	72.5	69.5	66.5	63.5	60.0	57.0	54.0	50.5	47.0	-	-	-
85	74.5	71.5	68.0	65.0	61.5	58.5	55.0	51.5	48.0	-	-	-
90	76.0	73.0	69.5	66.5	63.0	59.5	56.0	53.0	49.0	-	-	-
95	77.5	74.5	71.0	67.5	64.5	61.0	57.0	54.0	-	-	-	-
100	79.0	76.0	72.5	69.0	65.5	62.0	58.5	55.0	-	-	-	-
105	80.5	77.0	74.0	70.5	67.0	63.0	59.5	56.0	-	-	-	-
110	82.0	78.5	75.0	71.5	68.0	64.5	60.5	57.0	-	-	-	-
115	83.5	80.0	76.5	72.5	69.0	65.5	61.5	58.0	-	-	-	-
120	85.0	81.0	77.5	74.0	70.0	66.5	62.5	59.0	-	-	-	-
125*	86.0	82.5	78.5	75.0	71.0	67.5	63.5	59.5	-	-	-	-

* 125' Availability: Untreated Only



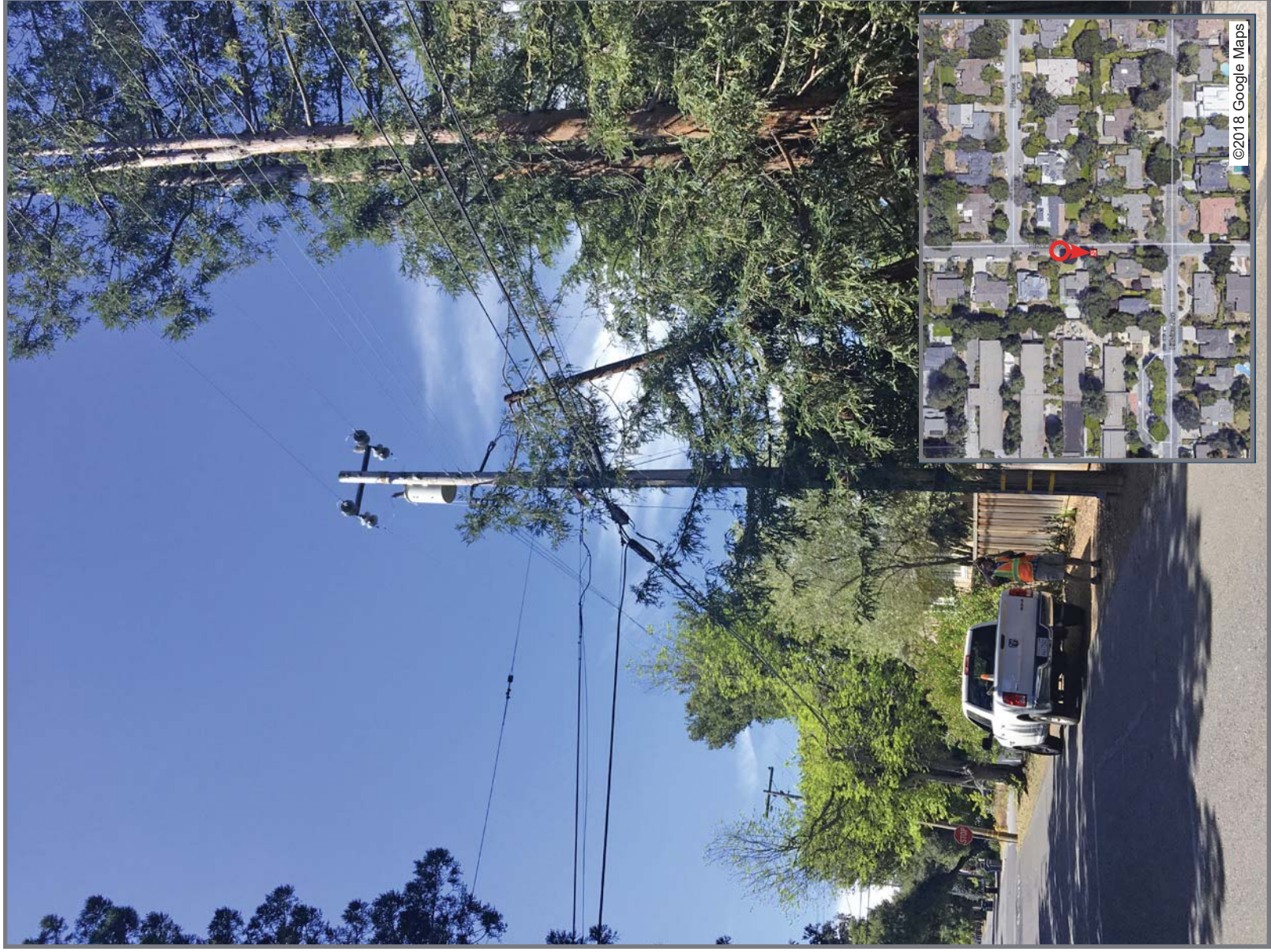
at&t

CRAN_RSFR_LOSAO_07

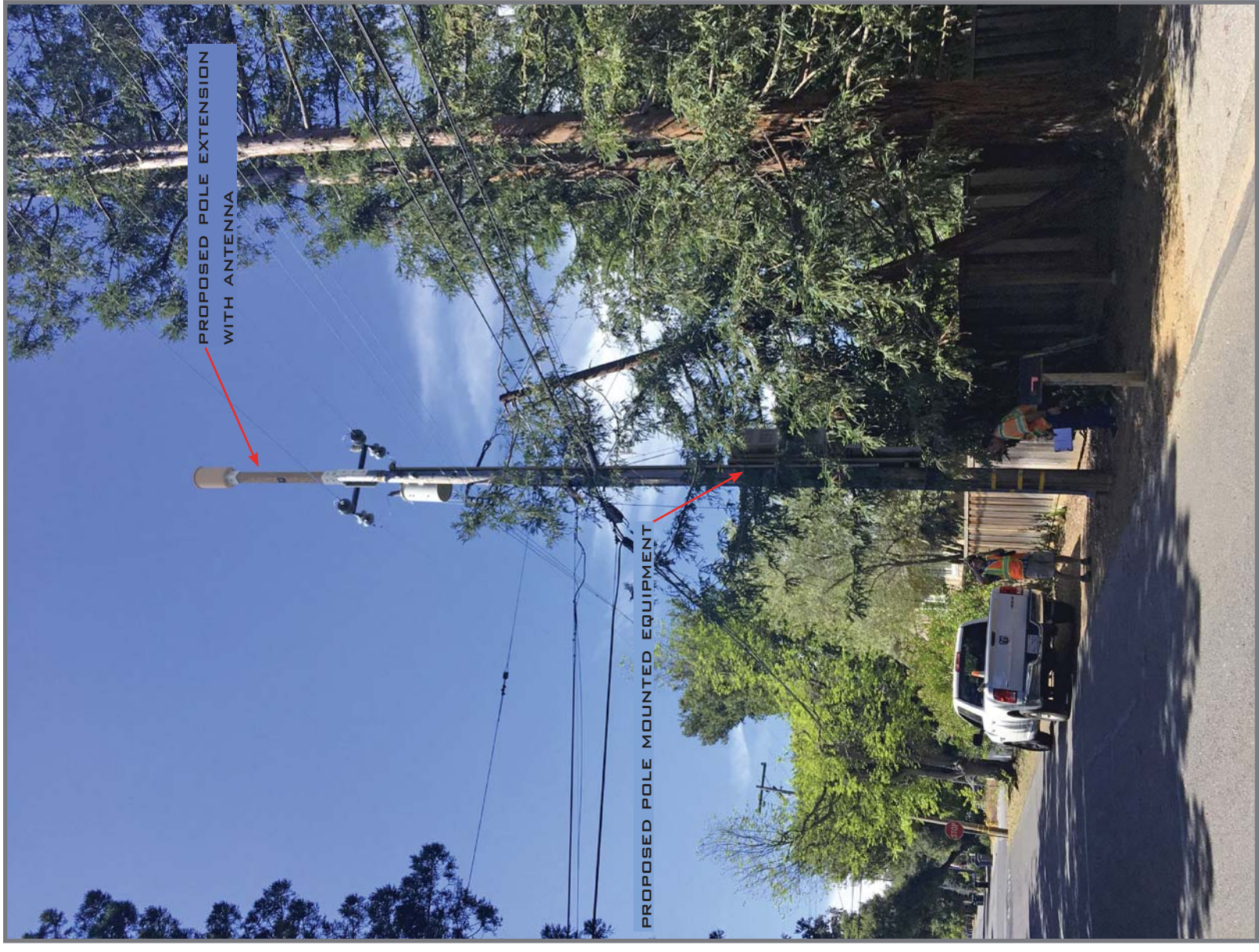
98 ELEANOR AVENUE LOS ALTOS CA 94022



VIEW 1



EXISTING



PROPOSED

LOOKING SOUTH FROM ELEANOR AVENUE

Alternate Review

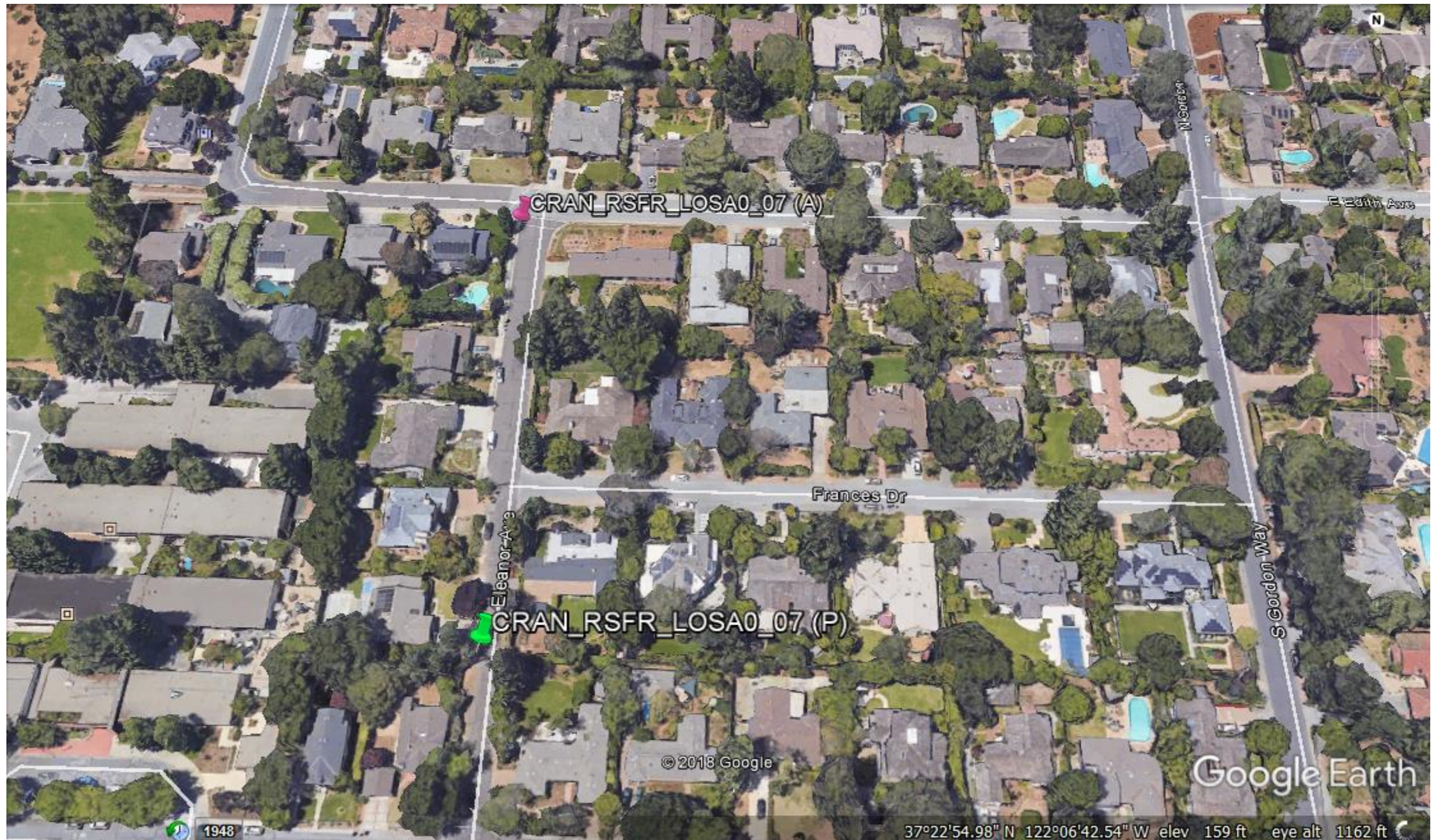
- ❑ AT&T proposed a node location near Almond Avenue and Sunkist Lane
- ❑ Existing (traditional) cell sites are not suitable candidates for colocation as they do not meet network requirements
- ❑ One alternate location was considered



Alternative Site Location

This location is a wood utility pole located in the public ROW on the south side of East Edith Avenue where it intersects with Eleanor Avenue

This pole is a possible candidate but has more pole top equipment and is less desirable due to network traffic needs.



CRAN_RSFR_LOSA0_07 (A)

CRAN_RSFR_LOSA0_07 (P)

© 2018 Google

Google Earth

1948

37°22'54.98" N 122°06'42.54" W elev 159 ft eye alt 1162 ft

AT&T Future Build-out Sites



Name	Address
LOSA0_01	141 Almond Ave
LOSA0_02	687 Linden Ave
LOSA0_03	421 Valencia
LOSA0_04	33 Pine
LOSA0_05	49 San Juan
LOSA0_06	791 Los Altos
LOSA0_07	98 Eleanor
LOSA0_08	182 Garland
LOSA0_09	491 Patrick Way
LOSA0_10	300 Los Altos Ave
LOSA0_11	130 Los Altos
LOSA0_12	356 Blue Oak
SJWE_007	5000 El Camino Real
SJWE_012	4294 El Camino Real



at&t

SITE ID:
SITE ADDRESS:

CRAN_RSFR_LOSAO_07
ROW ADJCT TO 98 ELEANOR AVE
LOS ALTOS, CA 94022

SITE TYPE:
POLE OWNER:
FA LOCATION:
USID:

PG&E POLE (PM# 114474414)
PG&E
12898152
TBD



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

SITE INFORMATION

APPLICANT: AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

AGENT: SURESITE
36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

APN: ADJCT TO 170-42-008

SITE ADDRESS: ROW ADJCT TO 98 ELEANOR AVE
LOS ALTOS, CA 94002

COUNTY: SANTA CLARA

LATITUDE: 37° 22' 48.10" N (37.3800500) NAD 83

LONGITUDE: 122° 06' 35.06" W (-122.1097500) NAD 83

GROUND ELEVATION: ±209' AMSL

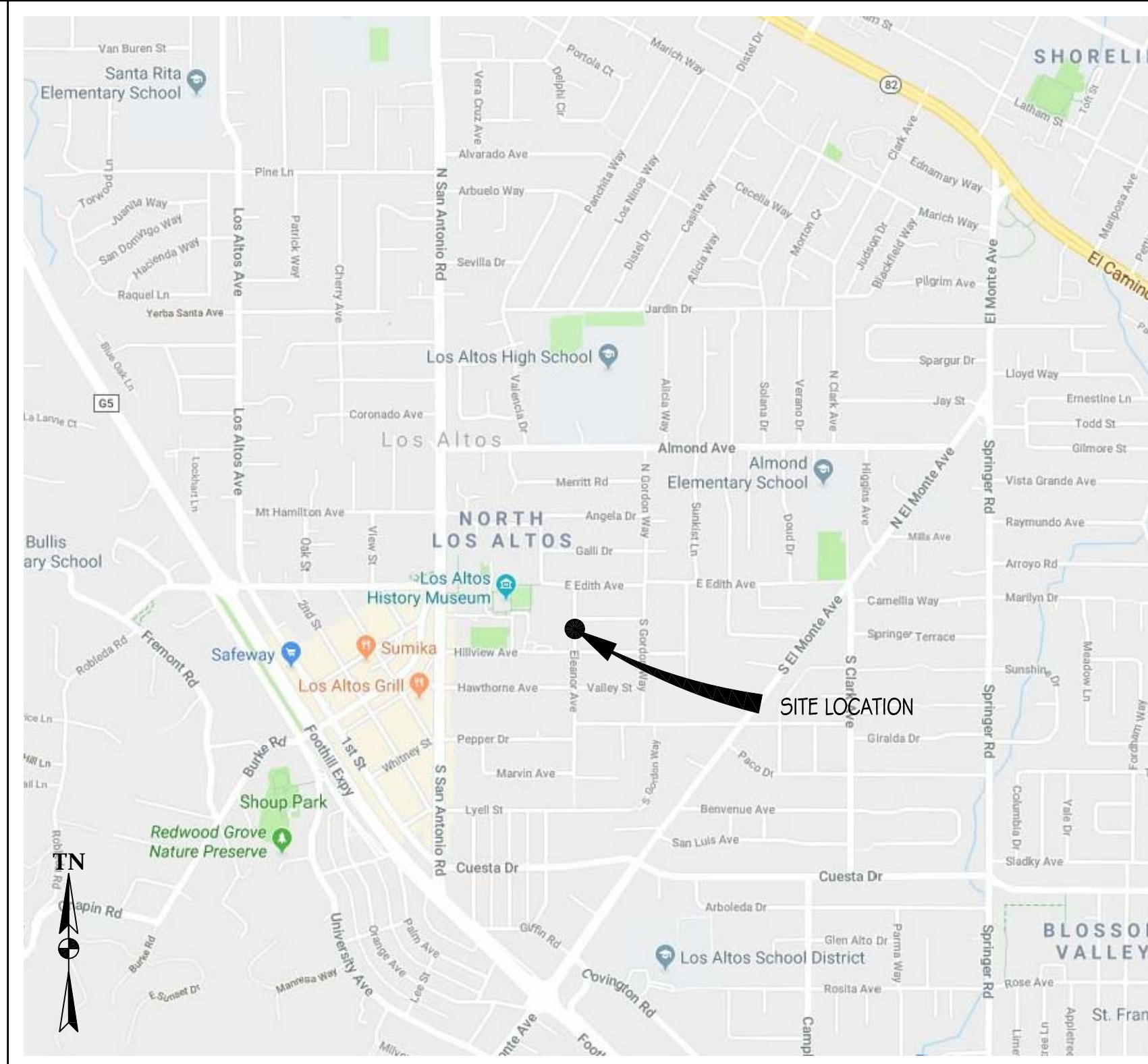
ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

PG&E SAP ID: 100512852

STREET CLASSIFICATION: LOCAL

VICINITY MAP



PROJECT TEAM

AGENT:
SURESITE
36 EXECUTIVE PARK, #210
IRVINE, CA 92614

PROJECT MANAGERS:
CHRIS JOHNSON
ERICSSON
6140 STONERIDGE MALL RD, SUITE 350
PLEASANTON, CA 94588
(408) 796-8443
CHRISTOPHER.JOHNSON@ERICSSON.COM

CONSTRUCTION MANAGER:
TBD

ARCHITECT/ENGINEER OF RECORD:
BRET McCOMB
PRECISION DESIGN & DRAFTING, INC
11768 ATWOOD ROAD, SUITE #20
AUBURN, CA 95603
(530) 823-6546
BRET@PDND.COM

RF MANAGER:
TBD

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT OF AN (E) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK:

- INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON G095 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRU11 & (1) 4415 W/ PSU UNITS, & (2) DIPLEXERS, & (1) KMW FX-OM2L1 OH2 CYLINDRICAL ANTENNA.
- ALL EQUIPMENT TO BE PAINTED TO MEET JURISDICTION APPROVAL.
- UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.

DRAWING INDEX

SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
T-2	GENERAL NOTES, LEGEND, & ABBREVIATIONS
A-1	SITE PLAN
A-2	EQUIPMENT PLAN & ANTENNA PLANS
A-3	ELEVATIONS
A-4	ELEVATIONS
A-5	DETAILS
A-6	DETAILS
E-1	SINGLE-LINE DIAGRAM & DETAILS
E-2	GROUNDING DIAGRAMS
TR-1	TRAFFIC CONTROL PLAN

CODE COMPLIANCE

- CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:
- 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
 - 2016 CALIFORNIA BUILDING CODE
 - 2016 CALIFORNIA ELECTRICAL CODE
 - 2016 CALIFORNIA MECHANICAL CODE
 - 2016 CALIFORNIA PLUMBING CODE
 - 2016 CALIFORNIA FIRE CODE
 - LOCAL BUILDING CODES
 - CITY/COUNTY ORDINANCES
 - ANSI/EIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
TO: 98 ELEANOR AVE LOS ALTOS, CA 94022

1. HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR	256 FT
2. TURN RIGHT ONTO SUNSET DR	0.1 MI
3. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD	0.3 MI
4. USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE	0.3 MI
5. MERGE ONTO I-680 S	21.5 MI
6. TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-880	0.2 MI
7. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO CA-262 S/MISSION BLVD	0.3 MI
8. MERGE ONTO CA-262 S/MISSION BLVD	0.6 MI
9. USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD INTERSTATE 880 S/SAN JOSE	0.9 MI
10. MERGE ONTO I-880 S	3.1 MI
11. USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW	0.9 MI
12. CONTINUE ONTO CA-237 W	8.4 MI
13. TAKE EL CAMINO REAL AND EL MONTE AVE TO ELEANOR AVE IN LOS ALTOS	

END AT: 98 ELEANOR AVE LOS ALTOS, CA 94022

ESTIMATED TIME: 48 MINS ESTIMATED DISTANCE: 40.2 MI



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" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.

PRECISION DESIGN & DRAFTING, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. COPYRIGHT © 2018 PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

ROW ADJCT TO 98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	03/20/19	CD 100%

DRAWN BY: K. PETERSON
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 03/20/19

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

GENERAL CONSTRUCTION NOTES

- PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC/UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYORS MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IF ANY DISCREPANCY IS FOUND BETWEEN THE CARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED/ DISRUPTED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC. SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- INCLUDE MISC ITEMS PER AT&T WIRELESS SPECIFICATIONS.
- ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHUTDOWN SIGNALS) OR PG&E REGULATIONS SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED LOGOS OR TEXT ON EQUIPMENT (E.G. RRUS), IF PRESENT, TO BE SANDED OFF OR COVERED WITH STICKER, & THEN PAINTED OVER.
- FONDATED RF WAC MARKING SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD THE BUILDING IF THERE IS NO WINDOW.
- ALL EQUIPMENT, INCLUDING ANTENNAS, MOUNTING STANDOFF BRACKETS, POLE EXTENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED MESA BROWN USING A DURABLE OUTDOOR PAINT.
- CABLING SHALL BE MESA BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS, & SHALL BE HIDDEN FROM VIEW TO THE MAXIMUM EXTENT POSSIBLE.
- SUPPORT EQUIPMENT (E.G. METERS, DISCONNECT SWITCH, ETC) TO BE CLUSTERED VERTICALLY AS CLOSE AS TECHNICALLY FEASIBLE ON POLE.

SYMBOLS LEGEND

	NEW ANTENNA		GROUT OR PLASTER		TELCO RUN
	EXISTING ANTENNA		(B) BRICK		POWER/TELCO RUN
	GROUND ROD		(E) MASONRY		GROUNDING CONDUCTOR
	GROUND BUSS BAR		CONCRETE		GROUNDING CONDUCTOR
	MECHANICAL GRND. CONN.		EARTH		CONDUIT UNDERGROUND
	GROUND ACCESS WELL		GRAVEL		FUSE, SIZE AND TYPE AS INDICATED.
	ELECTRIC BOX		PLYWOOD		SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NRB
	TELEPHONE BOX		WOOD CONT.		MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE
	LIGHT POLE		WOOD BLOCKING		LIGHTING FIXTURE, FLUORESCENT, 1.0.94' x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WSW232T
	FND. MONUMENT		STEEL		LIGHTING FIXTURE, FLUORESCENT, 1.0.94' x 8'-0", 2/85W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #TWSM232T
	SPOT ELEVATION		CENTERLINE		LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121
	SET POINT		PROPERTY/LEASE LINE		COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PRC
	REVISION		MATCH LINE		EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HEG-50-2-R91
	GRID REFERENCE		WORK POINT		LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1
	DETAIL REFERENCE		GROUND CONDUCTOR		LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #QL-505
	ELEVATION REFERENCE		COAXIAL CABLE		LIGHTING FIXTURE, 1/175W, METAL HALIDE, HUBBELL CAT #MIC-0175H-336
	SECTION REFERENCE		OVERHEAD SERVICE CONDUCTORS		5/8" x 10'-0" CU. GND ROD 1 8" MIN. BELOW GRADE.
			CHAIN LINK FENCING		
			OVERHEAD TELEPHONE/OVERHEAD POWER		
			OVERHEAD TELEPHONE LINE		
			OVERHEAD POWER LINE		
			POWER RUN		

GENERAL NOTES FOR EXISTING CELL SITES

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

APPLICABLE CODES, REGULATIONS, AND STANDARDS

- CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
 - INSTITUTION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT
 - IEEE C62.4-1, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY 'C3' AND 'HIGH SYSTEM EXPOSURE')
 - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
 - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
 - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
 - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
 - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
 - FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

- MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
- ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED.
- IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- IN DIRT SLURRY 1 8" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BALANCE
- WARNING TAPE TO BE PLACED IN TRENCH 1 2" ABOVE ALL CONDUITS AND #16 WARNING TAPE ABOVE RING.

GENERAL GROUNDING NOTES

- 5/8" x 10' ROD, CAD WELD BELOW GRADE
- GROUND TESTED AT 5 OHMS OR LESS.
- #5 GROUND AND BOND WIRE.
- GROUPS 3' FROM POLE.
- PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBMD OR STRONG BOX.
- WOOD MOULDING, STAPLED EVERY 3' AND AT EACH END.

GENERAL CONDUIT NOTES

- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE.
- 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3', STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
- CONTRACTOR TO STUB UP POLE 10" w/ 3" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 3" STUB SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.

TYPICAL R.O.W. POLE CONSTRUCTION NOTES

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

ABBREVIATIONS

A	AMPERE	HT	HEIGHT
AB	ANCHOR BOLT	ICCB	ISOLATED COPPER GROUND BUSS
ABV	ABOVE	INL (D)	INCHES
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT	INTERIOR
ADDI	ADDITIONAL	LAG (W)	LAG BOLTS
AFF	ABOVE FINISHED FLOOR	LAG	LAG BOLTS
APG	ABOVE FINISHED GRADE	LF	LINEAR FEET (FOOT)
AC	AMPERE INTERRUPTING CAPACITY	LTH	LENGTH
ALUM	ALUMINUM	L	LONGITUDINAL
ALT	ALTERNATE	LPS	LOW PRESSURE SODIUM
ANT	ANTENNA	MAS	MASONRY
APPROX	APPROXIMATELY	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MB	MACHINE BOLT
AT	AMPERE TAP	MECH	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MFR	MANUFACTURER
BATT	BATTERY	MIN	MINIMUM
BD	BOARD	MISC	MISCELLANEOUS
BLDG	BUILDING	MNLS	MAIN LINES ONLY
BLK	BLACK	MTD	MOUNTED
BLSG	BLOCKING	MTG	MOUNTING
BM	BEAM	MTL	METAL
BN	BOUNDARY NAILING	MTS	MANUAL TRANSFER SWITCH
BR	BRAND	N	NEUTRAL
BRKR	BREAKER	NEW	NEW
BTWC	BARE TINNED COPPER WIRE	NI	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BTS	BASE TRANSMISSION SYSTEM	NO. (W)	NUMBER
BOF	BOTTOM OF FOOTING	NTS	NOT TO SCALE
BU	BACK-UP CABINET	OH	OVERHEAD
C	CONDUIT	OC	ON CENTER
CAB	CABINET	OPNG	OPENING
CANT	CANTILEVERED	P	POLE
CB	CIRCUIT BREAKER	PCC	PRECAST CONCRETE
CIP	CAST IN PLACE	PCCS	PERSONAL COMMUNICATION SERVICES
CKT	CIRCUIT	PH	PHASE
CLG	CEILING	PLY	PLYWOOD
CLR	CLEAR	PNLBD	PANELBOARD
CO	COLUMN	PPC	POWER PROTECTION CABINET
CONC	CONCRETE	PRC	PRIMARY RADIO CABINET
CONN	CONNECTION(OR)	PRY	PRIMARY
CONSTR	CONSTRUCTION	PSF	POUNDS PER SQUARE FOOT
CONST	CONSTANT	PSI	POUNDS PER SQUARE INCH
CONT	CONTAINMENT	PT	PRESSURE TREATED
d	DIP PENNY (NAILS)	QTY	QUANTITY
DBL	DOUBLE	RAD, (R)	RADIUS
DEM	DEMAND	RFT	RECEPTACLE
DEPT	DEPTH	REF	REFERENCE
DF	DIAGONAL	REIN	REINFORCEMENT(ING)
DIAG	DIAGONAL	REQD	REQUIRED
DM	DIAMETER	RIGD	RIGID GALVANIZED STEEL
DWG	DRAWING(S)	SAFE	SAFETY
DWL	DOWEL(S)	SCH	SCHEDULE
EA	EACH	SCH	SOFT DRAWN BARE COPPER
EGR	EMERGENCY GENERATOR RECEPTACLE	SEC	SECONDARY
EL	ELEVATION	SEC	SECONDARY
ELEC	ELECTRICAL	SH	SHIELD
ELEV	ELEVATOR	SIM	SIMILAR
EMT	ELECTRICAL METALLIC TUBING	SN	SOLID NEUTRAL
EN	EDGE NAIL	SPEC	SPECIFICATIONS(S)
ENCL	ENCLOSURE	SQ	SQUARE
ENGR	ENGINEER	SS	STAINLESS STEEL
EQ	EQUAL	STD	STANDARD
EQV	EQUAL	STL	STEEL
EXT	EXPANSION	STRUC	STRUCTURAL
DST, (D)	EXTENSION	SURF	SURFACE
EXP	EXPANSION	SW	SWITCH
EXT	EXTERIOR	TEL	TELEPHONE
FAB	FABRICATION(OR)	TEMP	TEMPORARY
FAC	FACE	THK, (S)	THICKNESS
FIA	FIRE ALARM	TIE	TIE NAIL
FF	FINISH FLOOR	TOA	TOP OF ANTENNA
FG	FINISH GRADE	TOC	TOP OF CURB
FIN	FINISHED	TOP	TOP OF FOUNDATION
FLR	FLOOR	TOP	TOP OF PLATE (PARAPET)
FLUR	FLUORESCENT	TOS	TOP OF WALL
FOUN	FOUNDATION	TOW	TOP OF WALL
FOM	FACE OF CONCRETE	TYP	TYPICAL
FPC	FACE OF MASONRY	UG	UNDERGROUND
FOS	FACE OF STUD	UL	UNDERWRITERS LABORATORY INC.
FOW	FACE OF WALL	UNO	UNLESS NOTED OTHERWISE
FS	FINISH SURFACE	VAC	VOLT ALTERNATING CURRENT
FT, (F)	FOOT (FEET)	VIF	VERIFY IN FIELD
FTG	FOOTING	W	WAIT OR WIRE
FU	FUSE	WD	WIDE(WIDTH)
G	GROUND	WI	WITH
GR	GROWTH (CABINET)	WO	WITHOUT
GA	GAUGE	WOOD	WOOD
GEN	GENERATOR	WP	WEATHERPROOF
GALV	GALVANIZED	XFR	TRANSFER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	XTRM	TRANSFER
GLB	GLUE LAMINATED BEAM	Y	CROSS-LINE POLYETHYLENE
GND	GROUND	Z	CENTERLINE
GPS	GLOBAL POSITIONING SYSTEM		PLATE
GRD	GROUND		
HDBC	HARD DRAWN COPPER WIRE		
HDR	HEADER		
HGR	HANGER		
HPS	HIGH PRESSURE SODIUM		



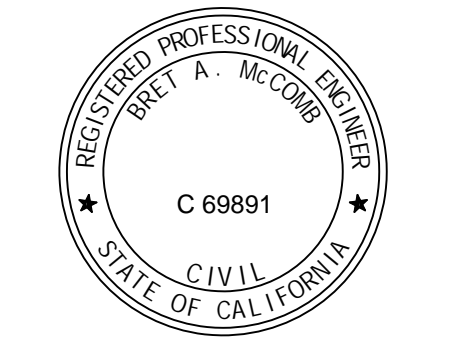
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY FOR OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF PRECISION DESIGN DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

ROW ADJCT TO 98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	03/20/19	CD 100%

DRAWN BY: K. PETERSON

CHECKED BY: T. DICARLO

APPROVED BY: B. MCCOMB

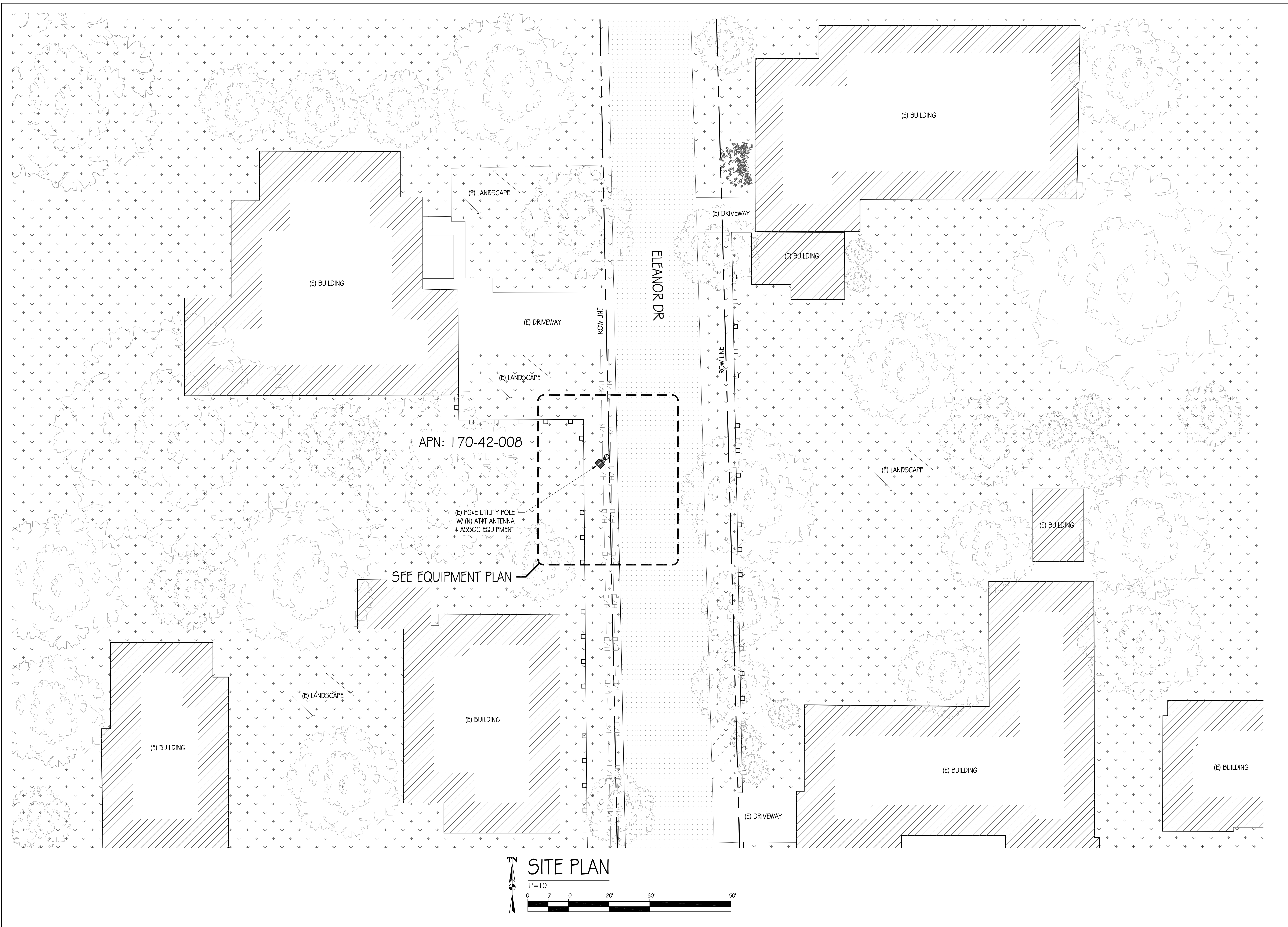
DATE: 03/20/19

SHEET TITLE:

GENERAL NOTES, LEGEND,
& ABBREVIATIONS

SHEET NUMBER

T-2



PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THE CLIENT FOR ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



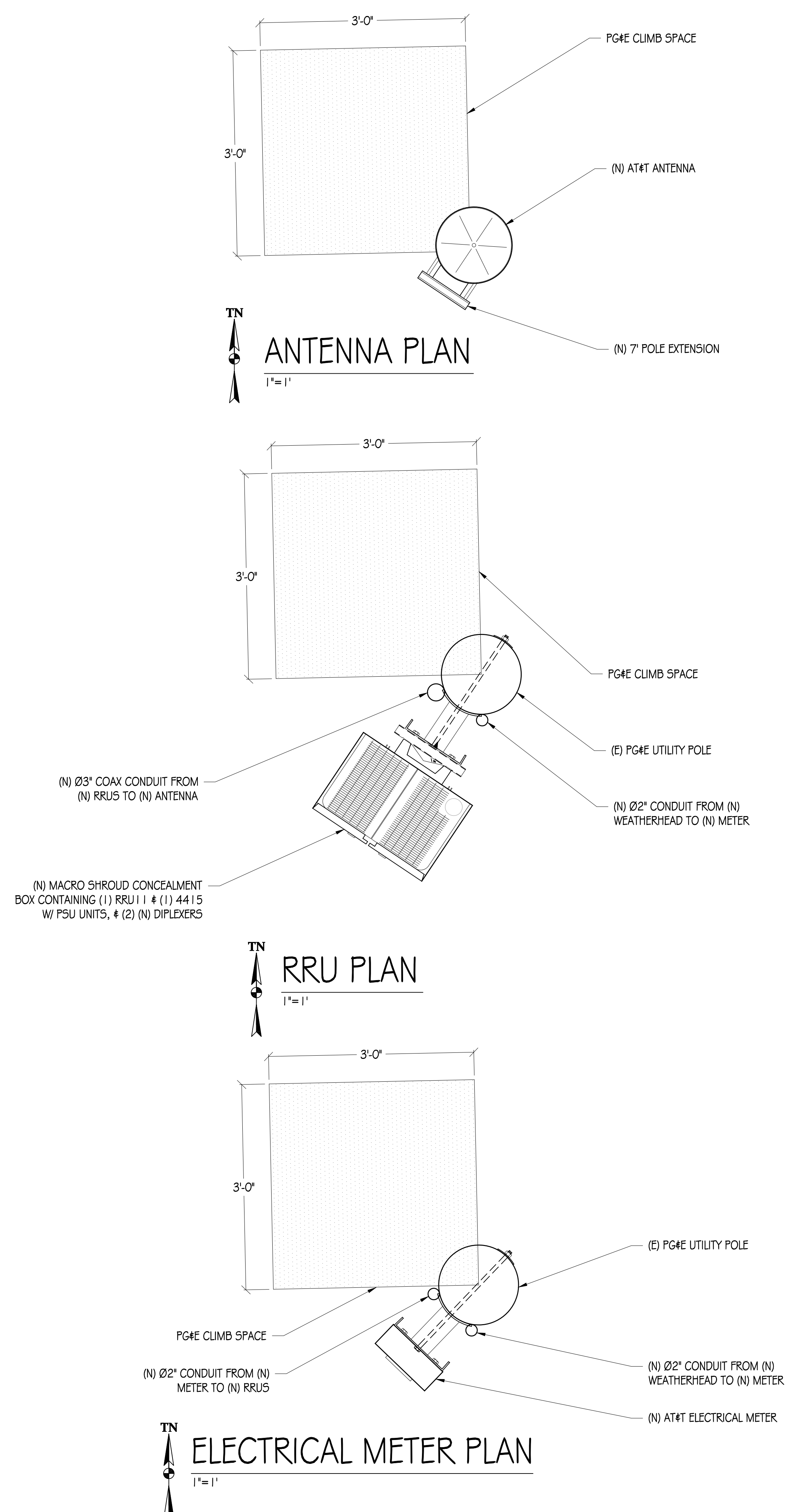
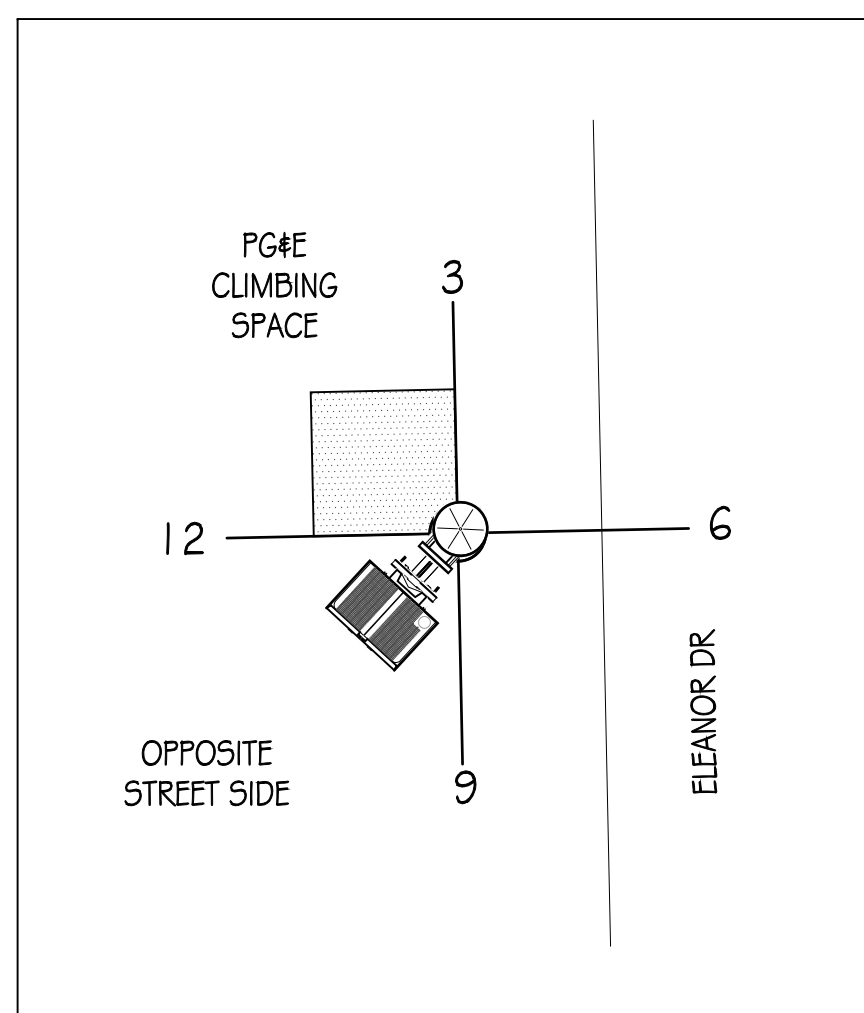
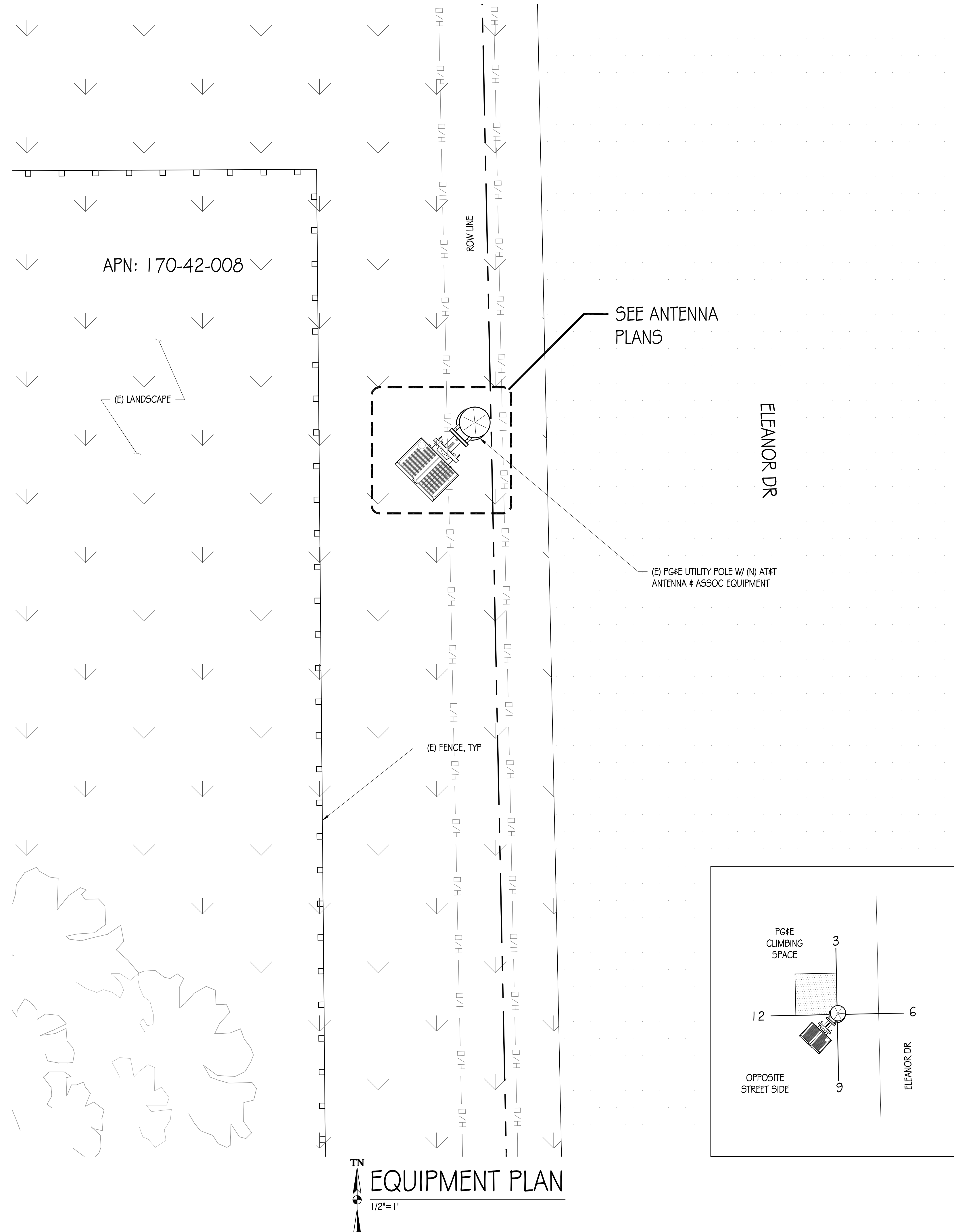
CRAN_RSFR_LOSAO_07

ROW ADJCT TO 98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	03/20/19	CD 100%

DRAWN BY: K. PETERSON
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 03/20/19
 SHEET TITLE: SITE PLAN
 SHEET NUMBER: A-1



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THE CLIENT FOR ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.

CRAN_RSFR_LOSAO_07

ROW ADJCT TO 98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS		
△	DATE	DESCRIPTION
	06/21/18	CD 90%
	03/20/19	CD 100%

DRAWN BY: K. PETERSON

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

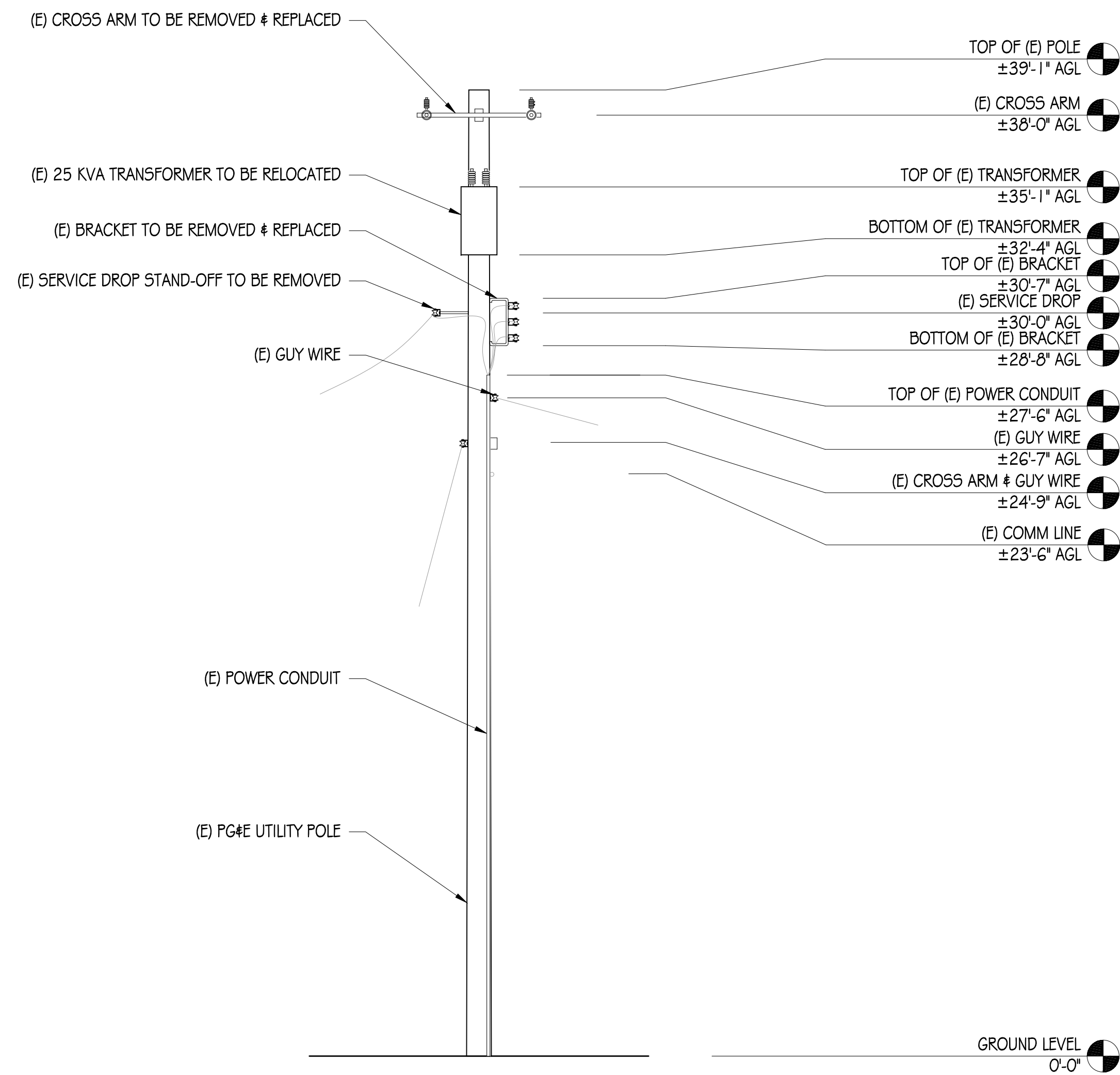
DATE: 03/20/19

SHEET TITLE:

EQUIPMENT PLAN & ANTENNA PLANS

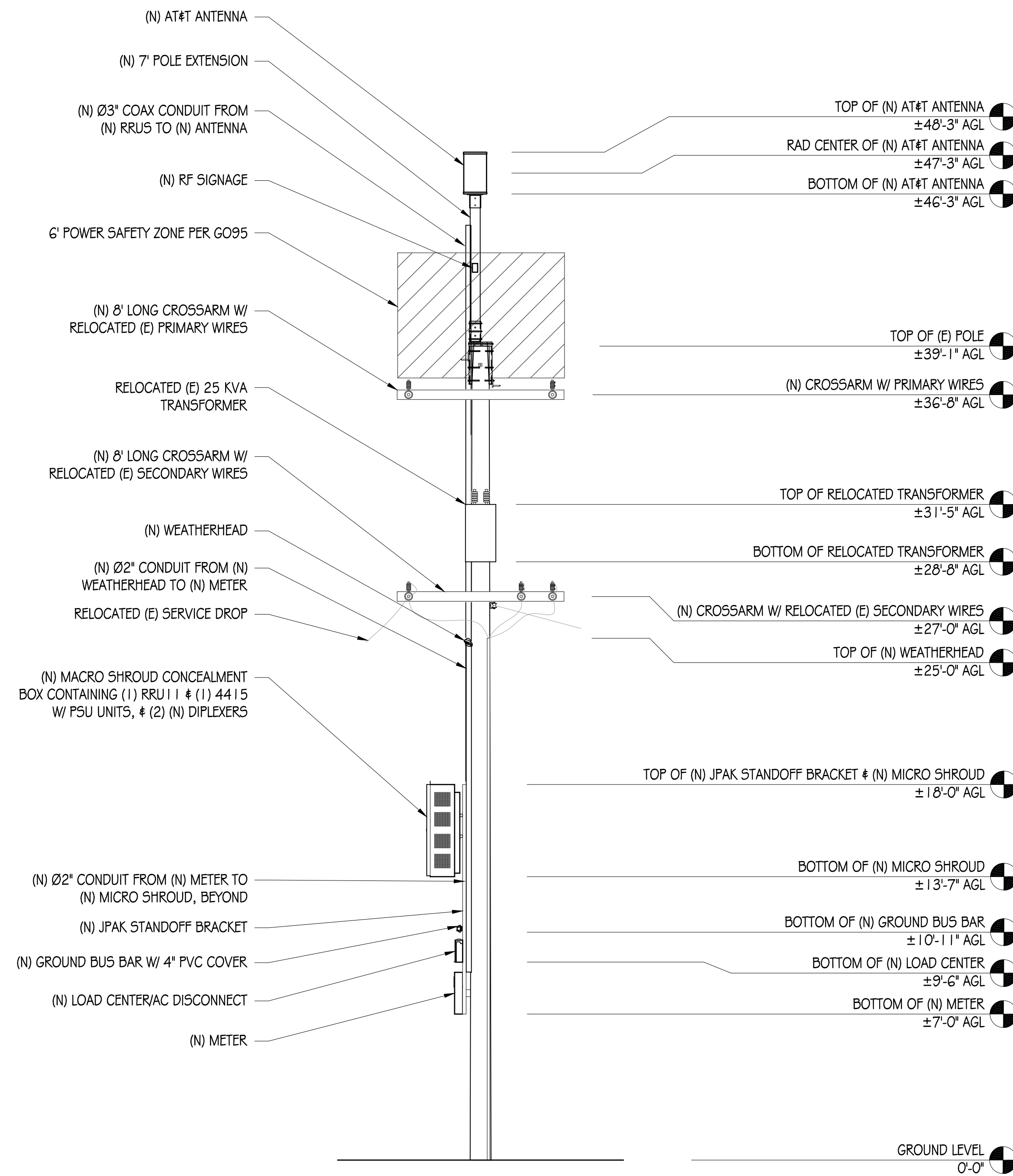
SHEET NUMBER:

A-2



EXISTING SOUTH ELEVATION

1/4" = 1'-0"



NEW SOUTH ELEVATION

1/4" = 1'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN
NOTE: MAY NEED TO RELOCATED COMM SERVICE DROPS TO CLEAR CLIMBING SPACE



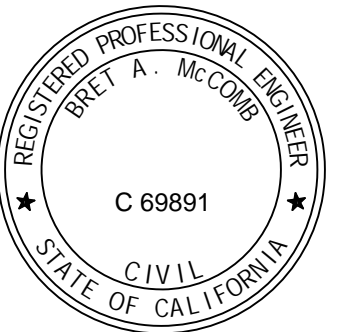
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & DRAFTING, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN PRECISION DESIGN & DRAFTING, INC. WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

ROW ADJCT TO 98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	03/20/19	CD 100%

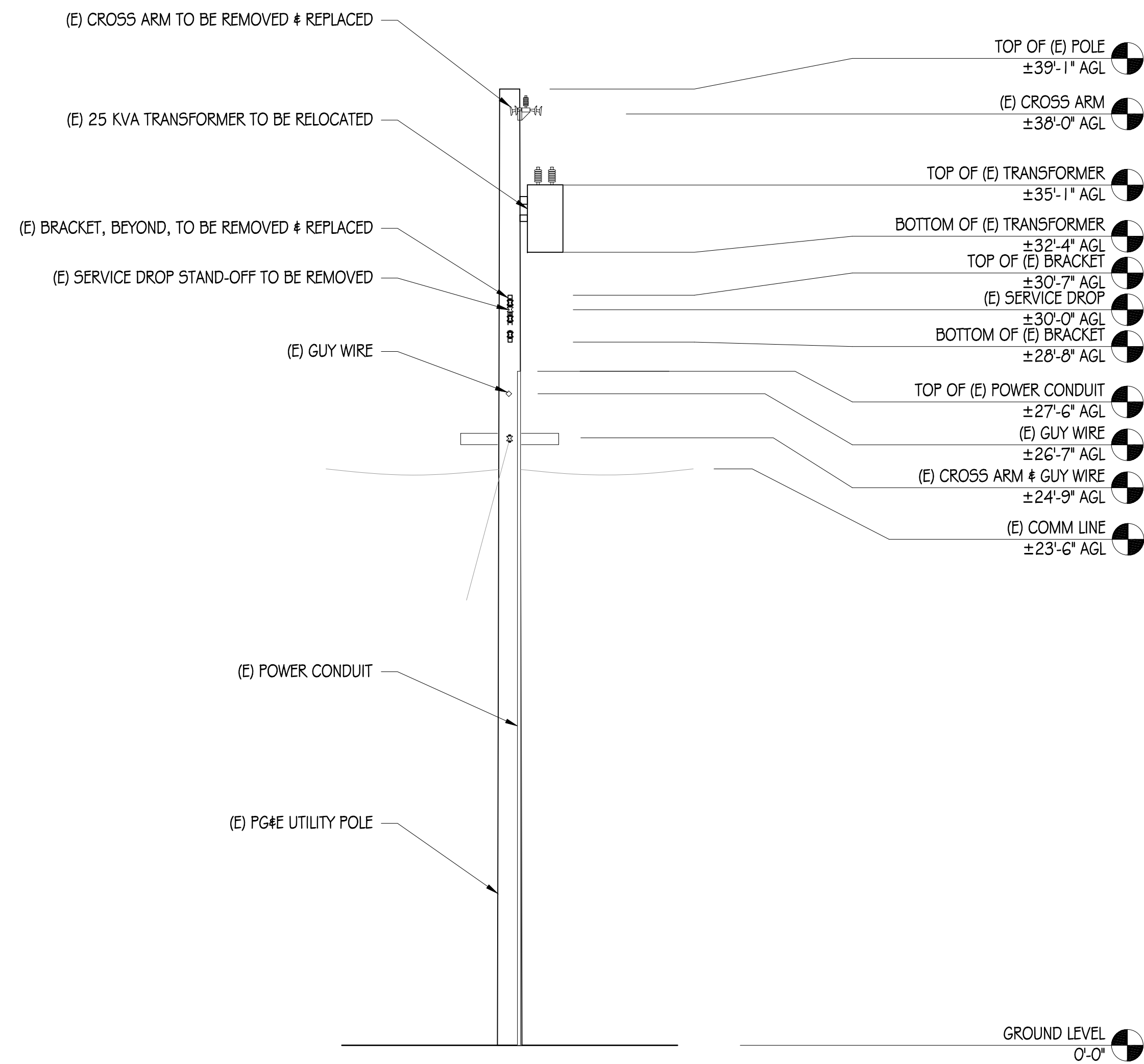
DRAWN BY: K. PETERSON
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 03/20/19

SHEET TITLE:

ELEVATIONS

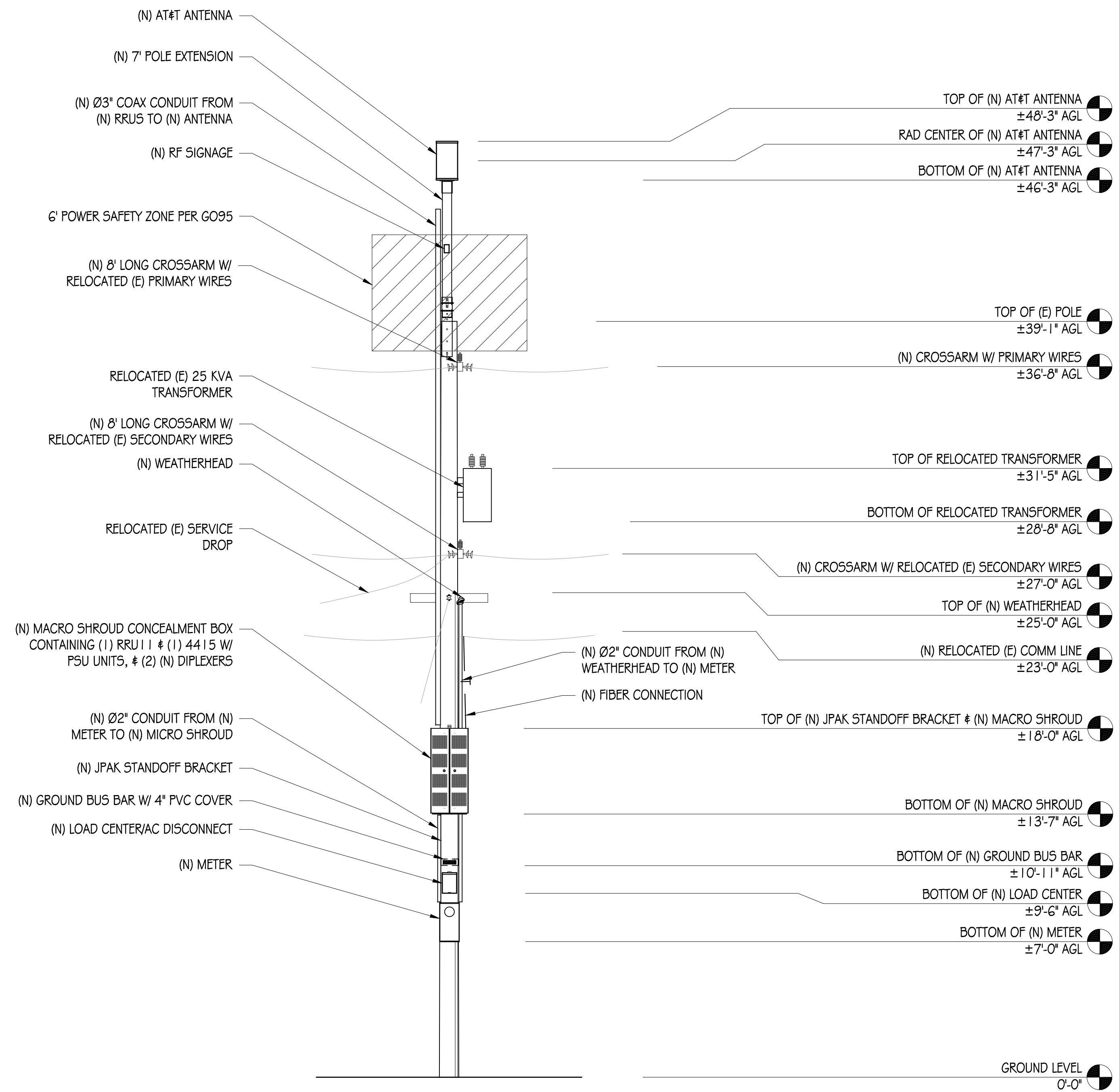
SHEET NUMBER

A-3



EXISTING WEST ELEVATION

1/4" = 1'-0"



NEW WEST ELEVATION

1/4" = 1'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN
NOTE: MAY NEED TO RELOCATED COMM SERVICE DROPS TO CLEAR CLIMBING SPACE



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN AND DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN PRECISION DESIGN AND DRAFTING, INC. WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN AND DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

ROW ADJCT TO 98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	03/20/19	CD 100%

DRAWN BY: K. PETERSON

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 03/20/19

SHEET TITLE:

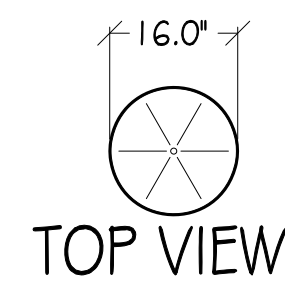
ELEVATIONS

SHEET NUMBER

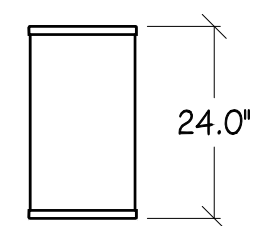
A-4

KMW FX-OM2L1 OH2-06T

WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø 16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



TOP VIEW

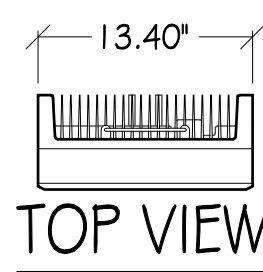


FRONT VIEW

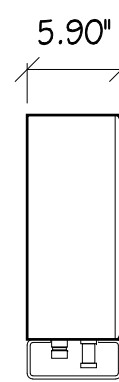
1 ANTENNA
1/2"=1'

ERICSSON RRUS-4415

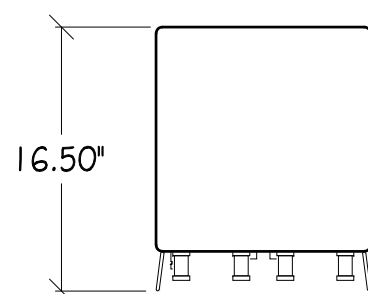
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

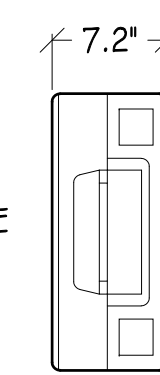


FRONT VIEW

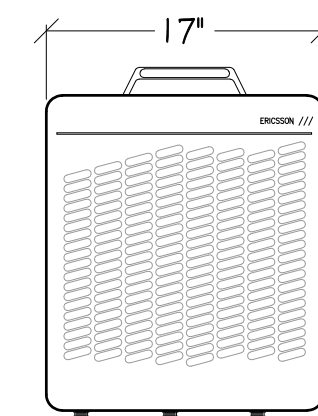
2 RRUS-4415 DETAIL
1"=1'

ERICSSON RRUS-111

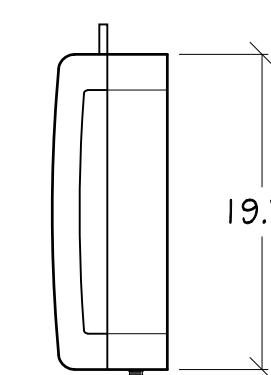
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

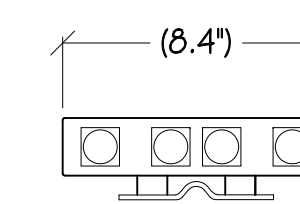


SIDE VIEW

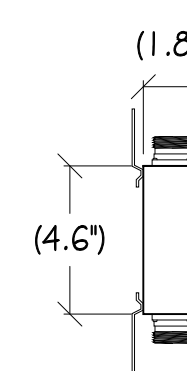
3 RRUS-111 DETAIL
1"=1'

COMMSCOPE
 CBC1923T-4310/
 E11F13P06

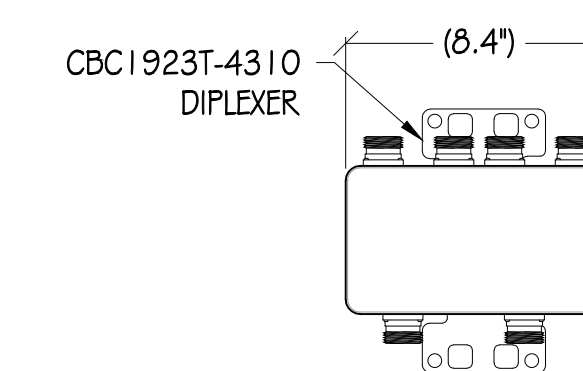
COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6"
 WIDE X 1.8" DEEP



TOP VIEW

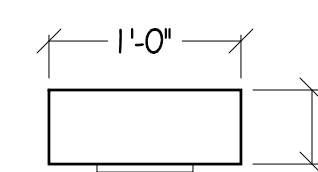


SIDE VIEW

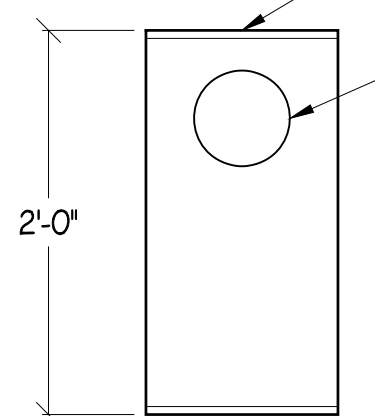


FRONT VIEW

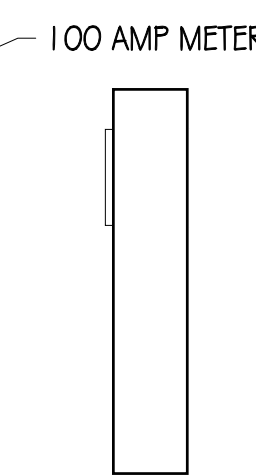
4 DIPLEXER DETAIL
1"=6"



TOP VIEW



FRONT VIEW



SIDE VIEW

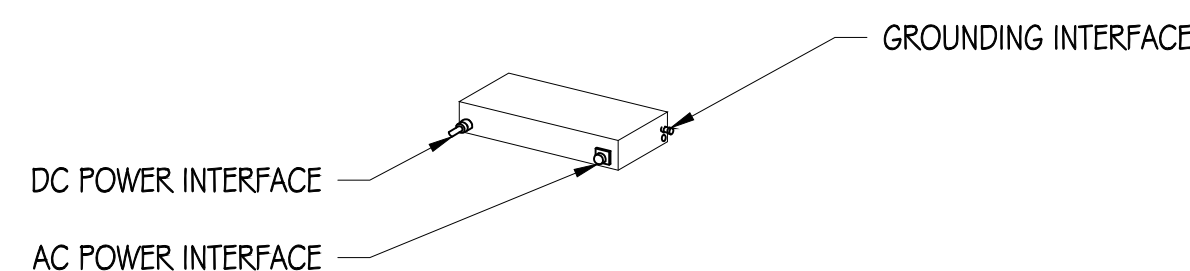
5 METER DETAIL
1"=1'

COOPER B-LINE 114TB ELECTRICAL PANEL TO MEET COMMERCIAL PG&E REQUIREMENTS WITH TEST BYPASS

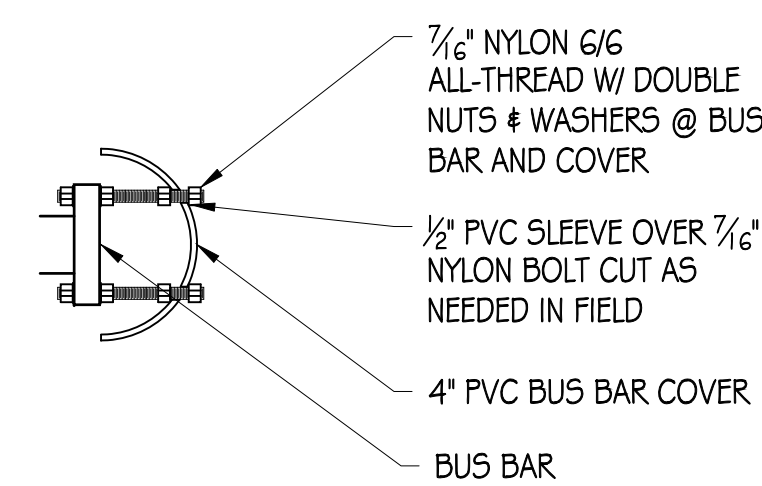
100 AMP METER

ERICSSON PSU AC 08

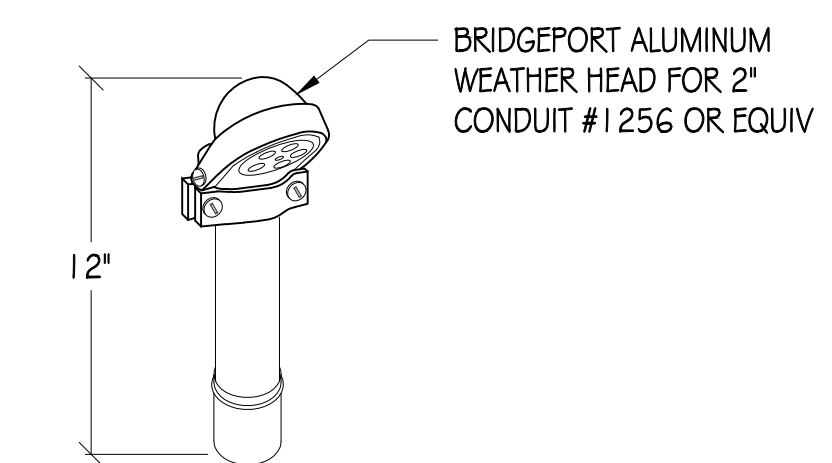
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



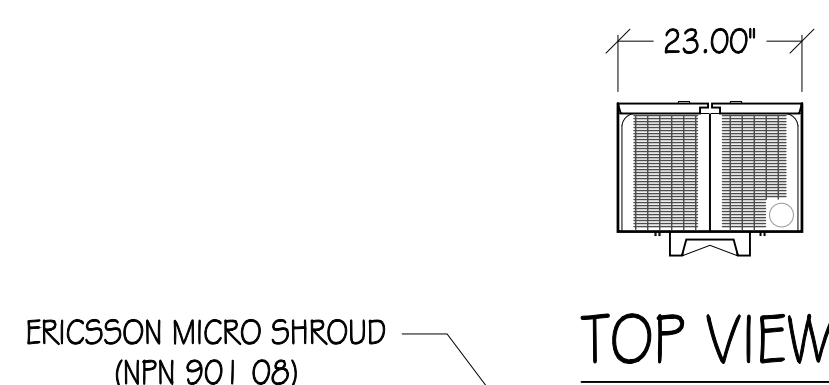
6 AC POWER MODULE
NTS



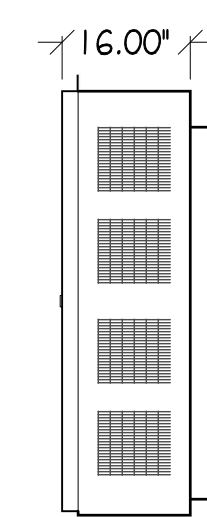
7 BUS BAR COVER
6"=1'



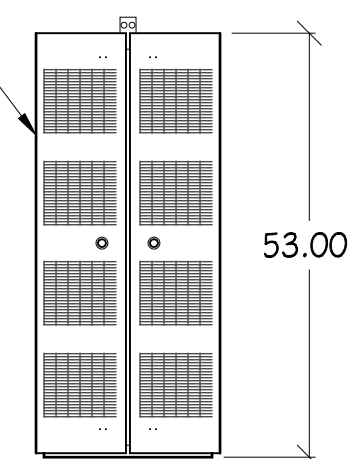
8 WEATHER HEAD
NTS



TOP VIEW

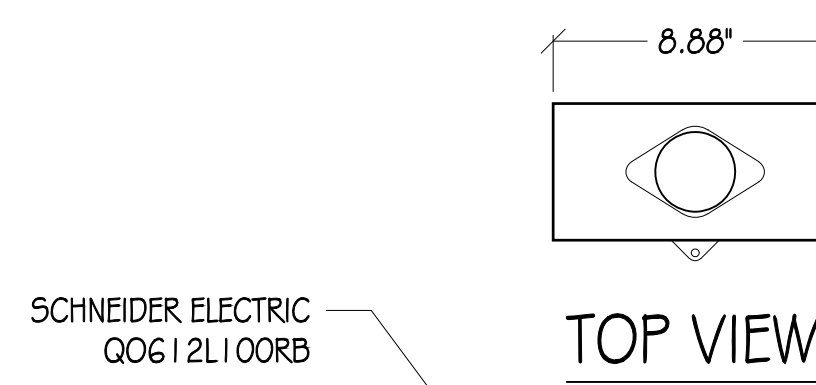


SIDE VIEW

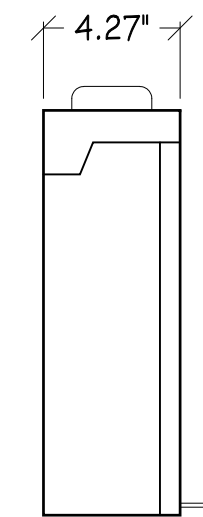


FRONT VIEW

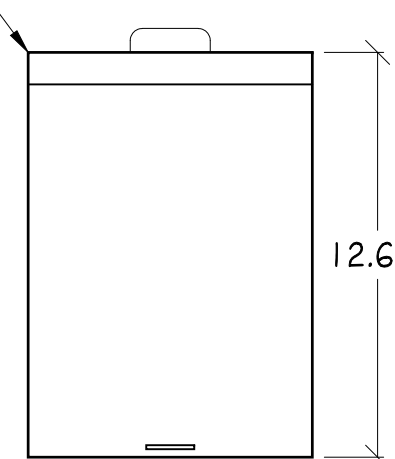
9 MICRO SHROUD CONCEALMENT
1/2"=1'



TOP VIEW

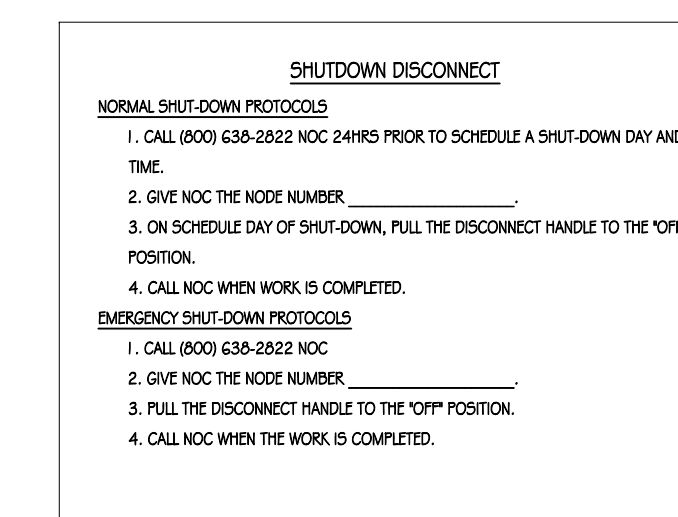
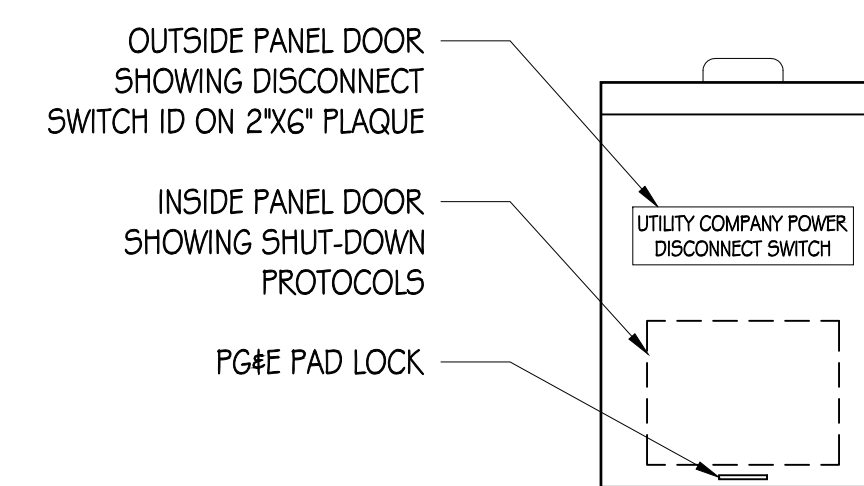


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT
1"=6"



11 DISCONNECT SIGNAGE
3"=1'

NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT



AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



Infrastructure experts. Small cell leaders.
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11768 Atwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

ROW ADJCT TO 98 ELEANOR AVE
 LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	03/20/19	CD 100%

DRAWN BY: K. PETERSON
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 03/20/19

SHEET TITLE:

DETAILS

SHEET NUMBER

A-5

STRUCTURAL STEEL NOTES:

ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.

ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 TYPE E OR S, GRADE B (F_y=35,000 PSI) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.

ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.

ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.

BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.

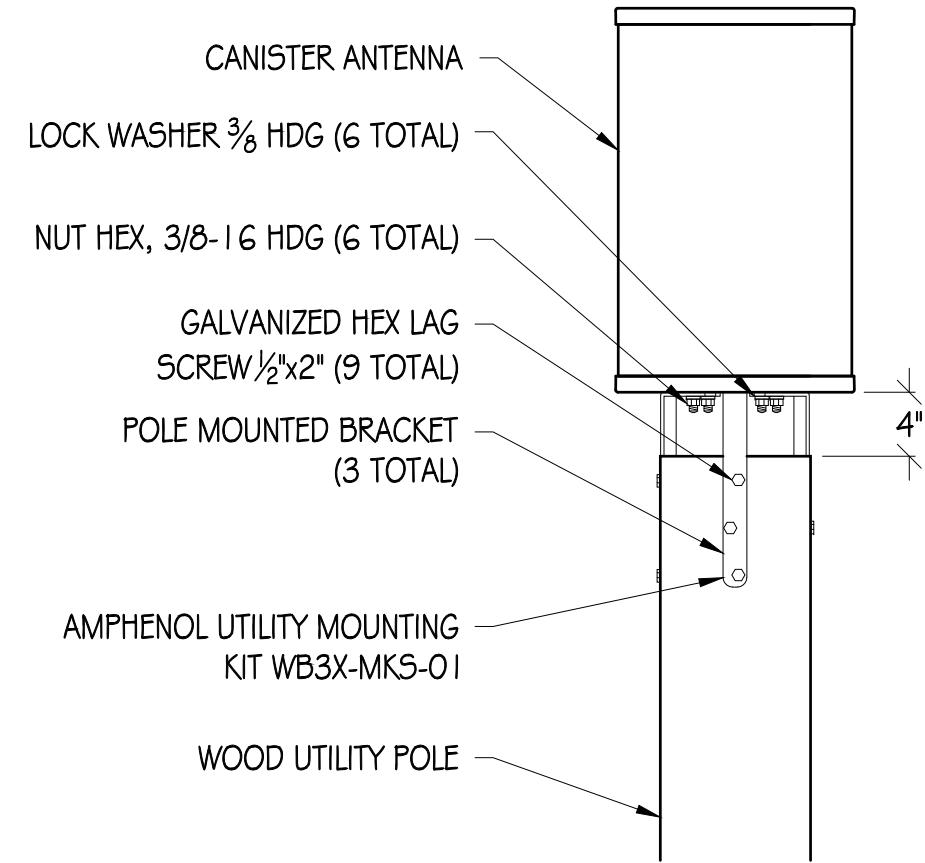
THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.

ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.

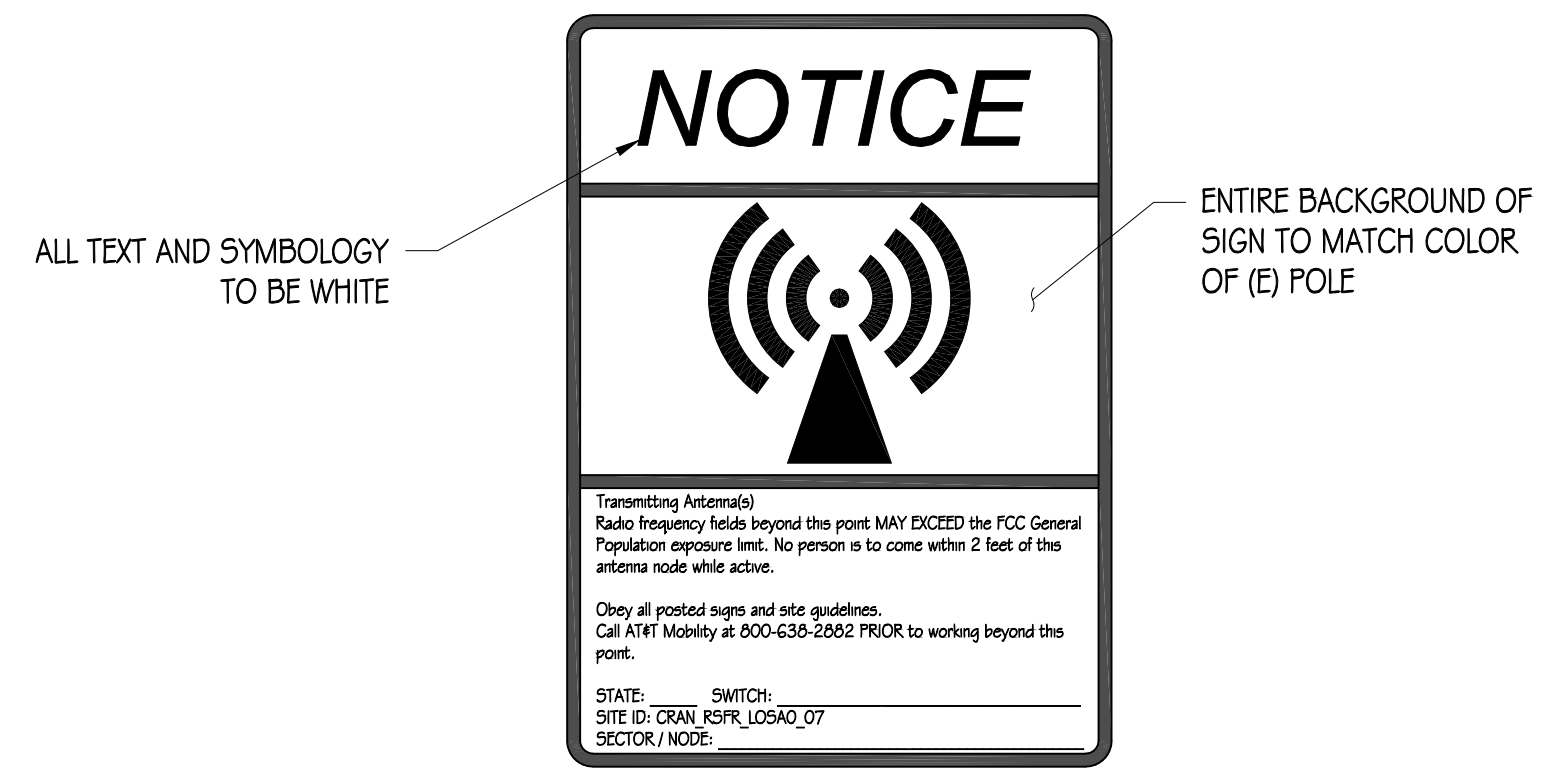
ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.

ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.

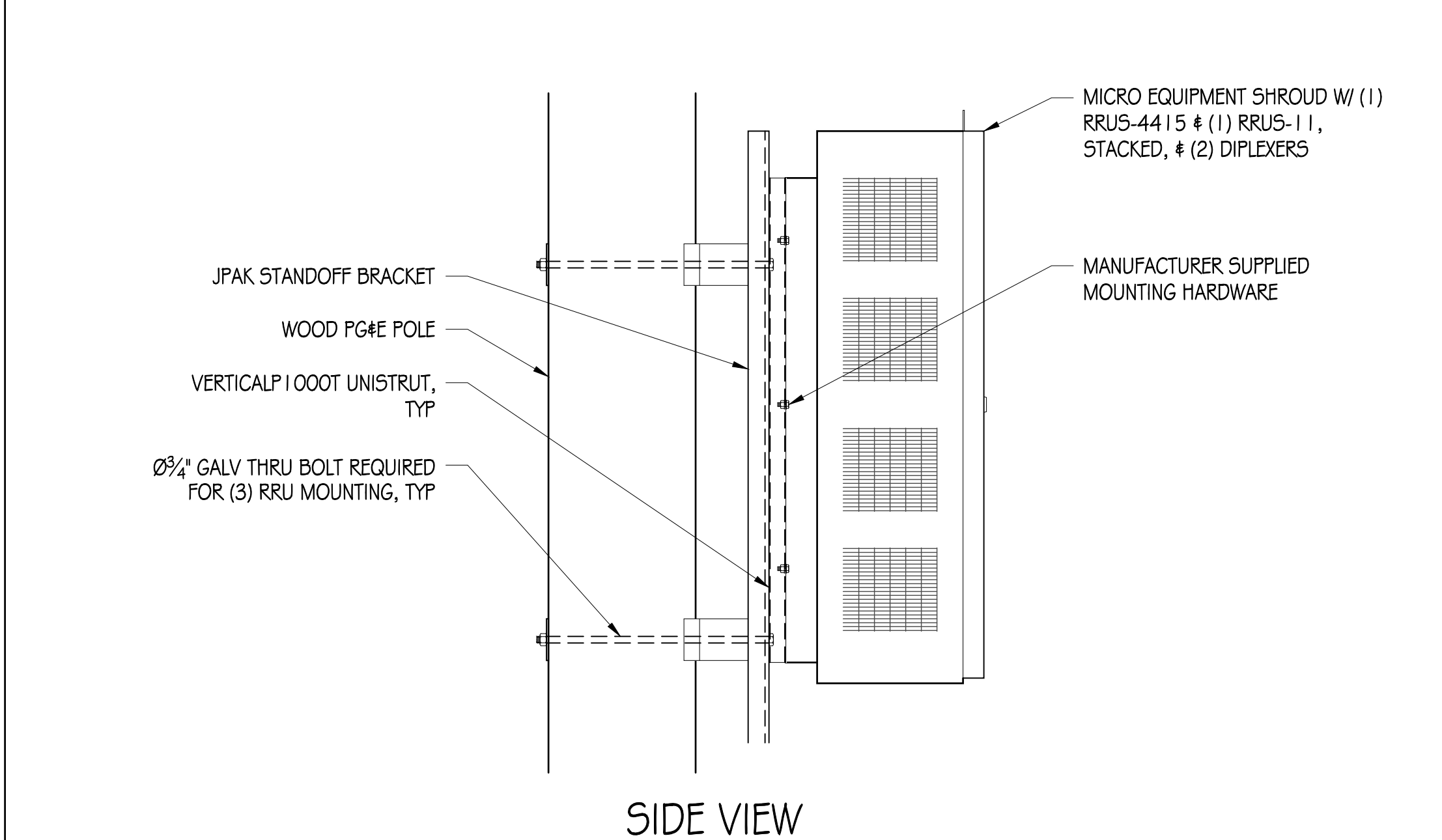
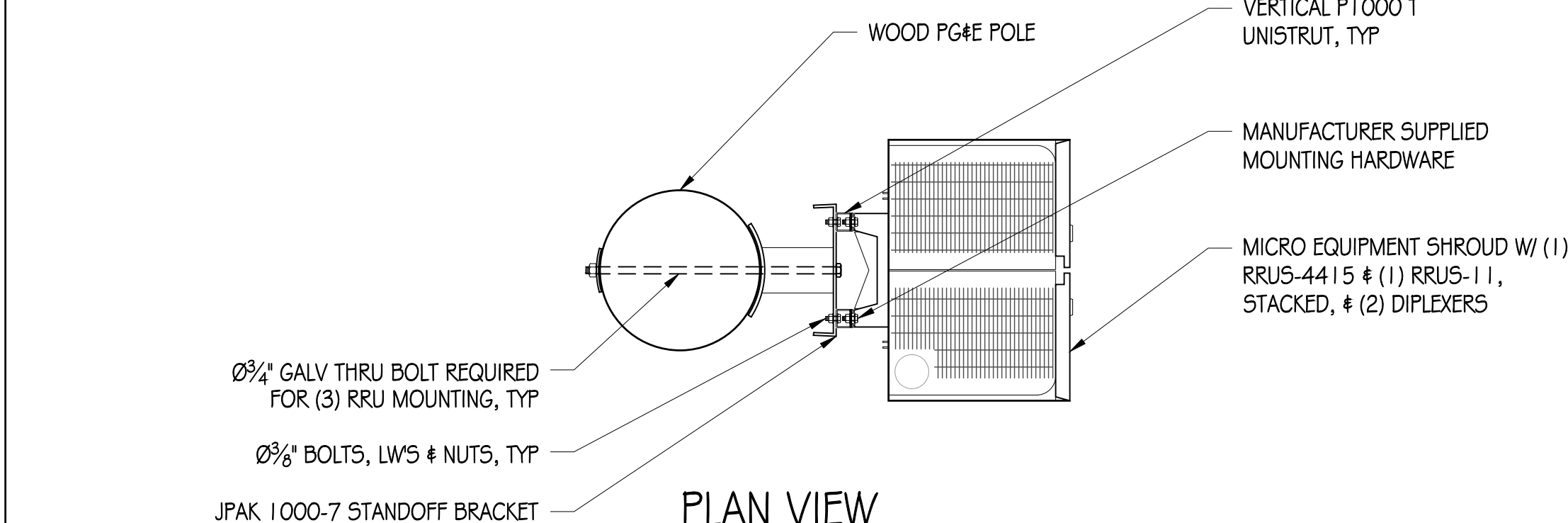
ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.



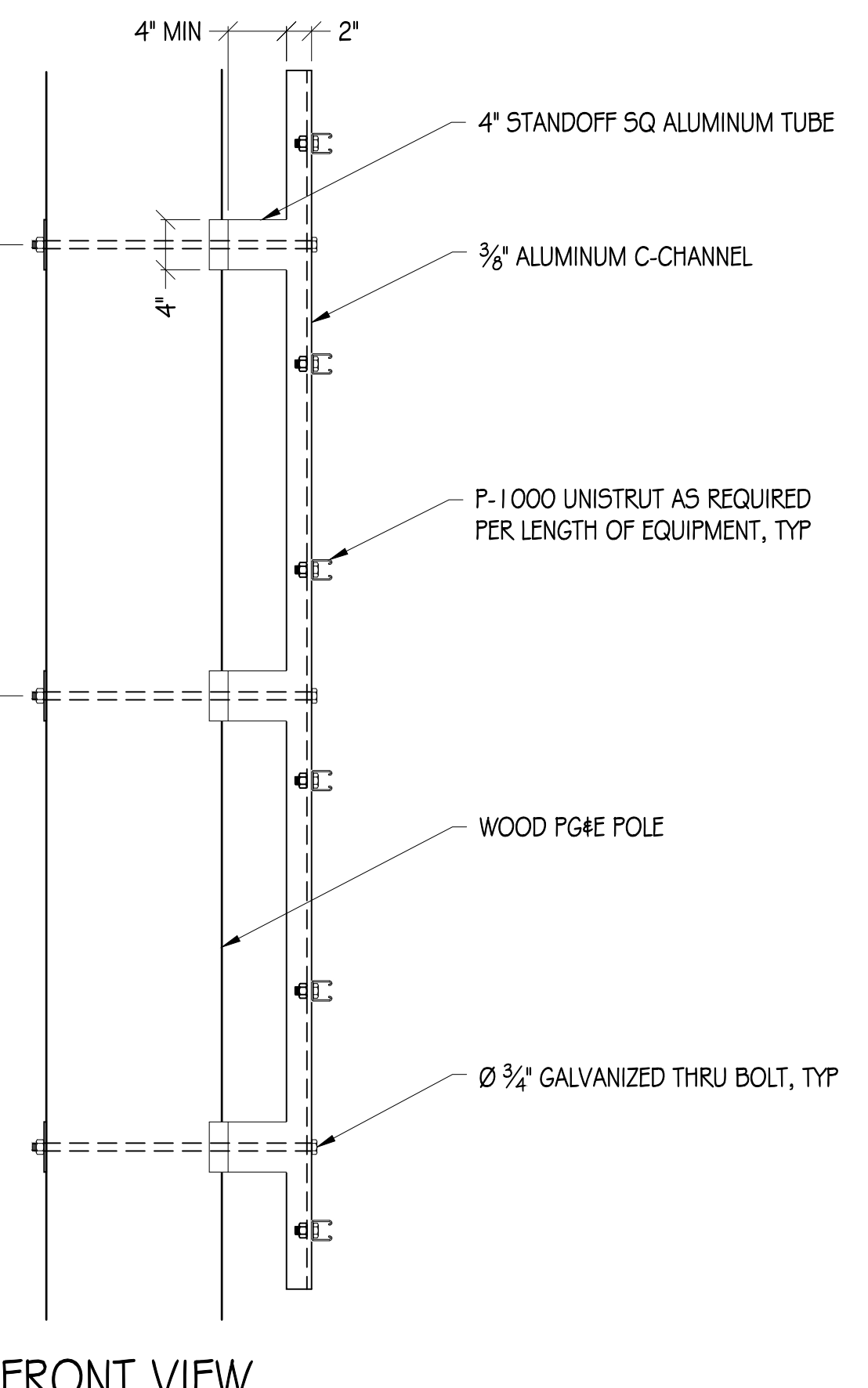
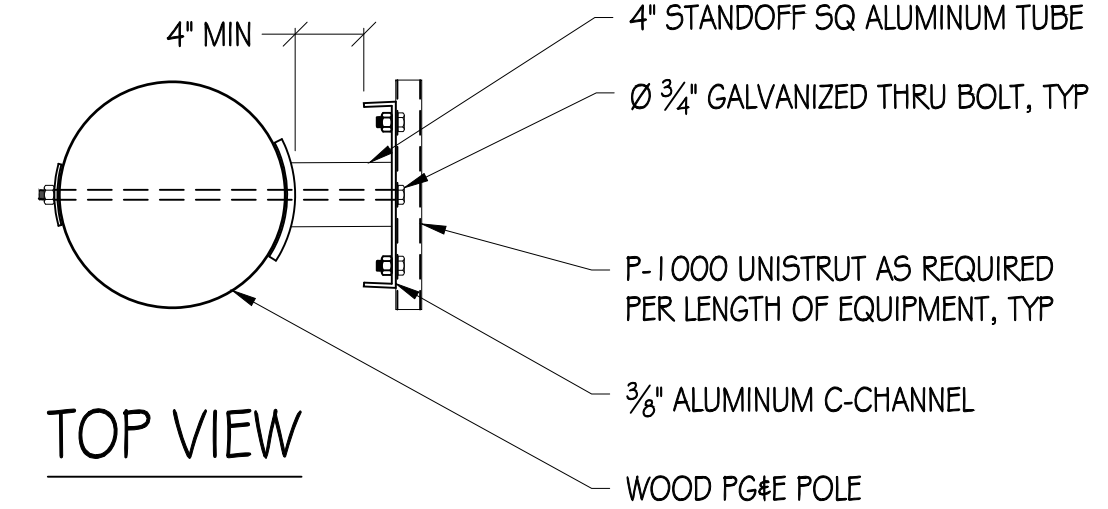
1 POLE-TOP ANTENNA MOUNT DETAIL
1"=1'



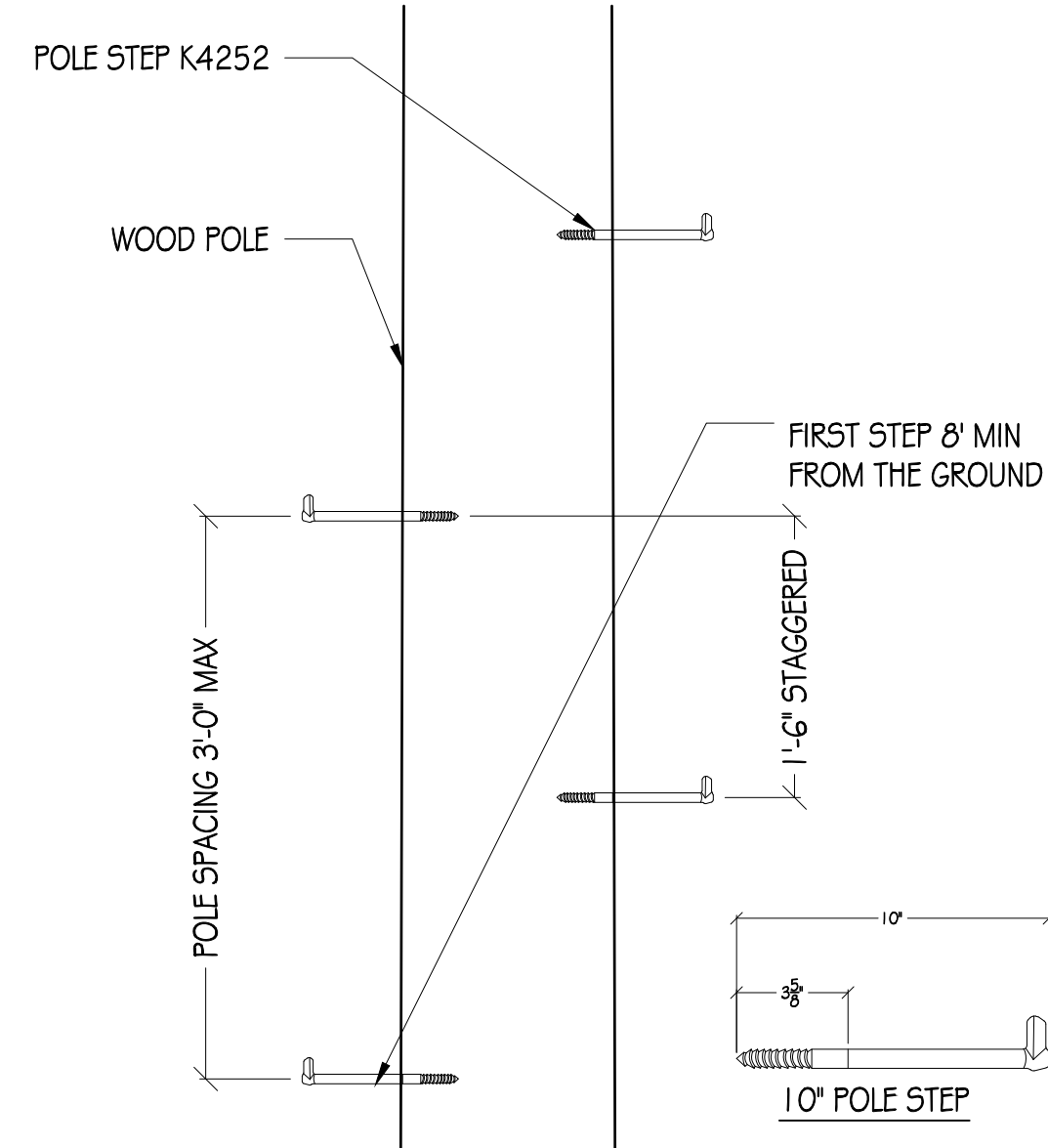
2 NOTICE SIGNAGE
NOTES:
NOTICE IS A VINYL STICKER ADHERED TO POLE



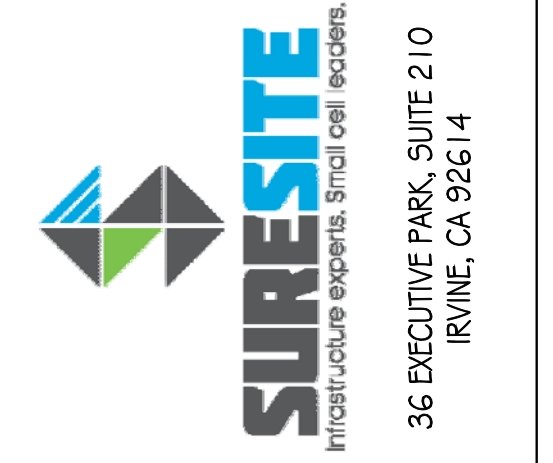
3 RRU MOUNTING DETAIL
1"=1'



4 JPAK STANDOFF DETAIL
1"=1'



5 POLE STEP
1"=1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07
ROW ADJCT TO 98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	03/20/19	CD 100%

DRAWN BY: K. PETERSON
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 03/20/19
SHEET TITLE:

DETAILS
SHEET NUMBER
A-6

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 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.

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.

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 "THWN" CONDUCTORS LARGER AND #6 AWG MAY BE TYPE "OR" "TWN".

PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT.

UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, SINGUAL 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.

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.

UTILITY AND TELCO NOTES:

UTILITY AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS 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.

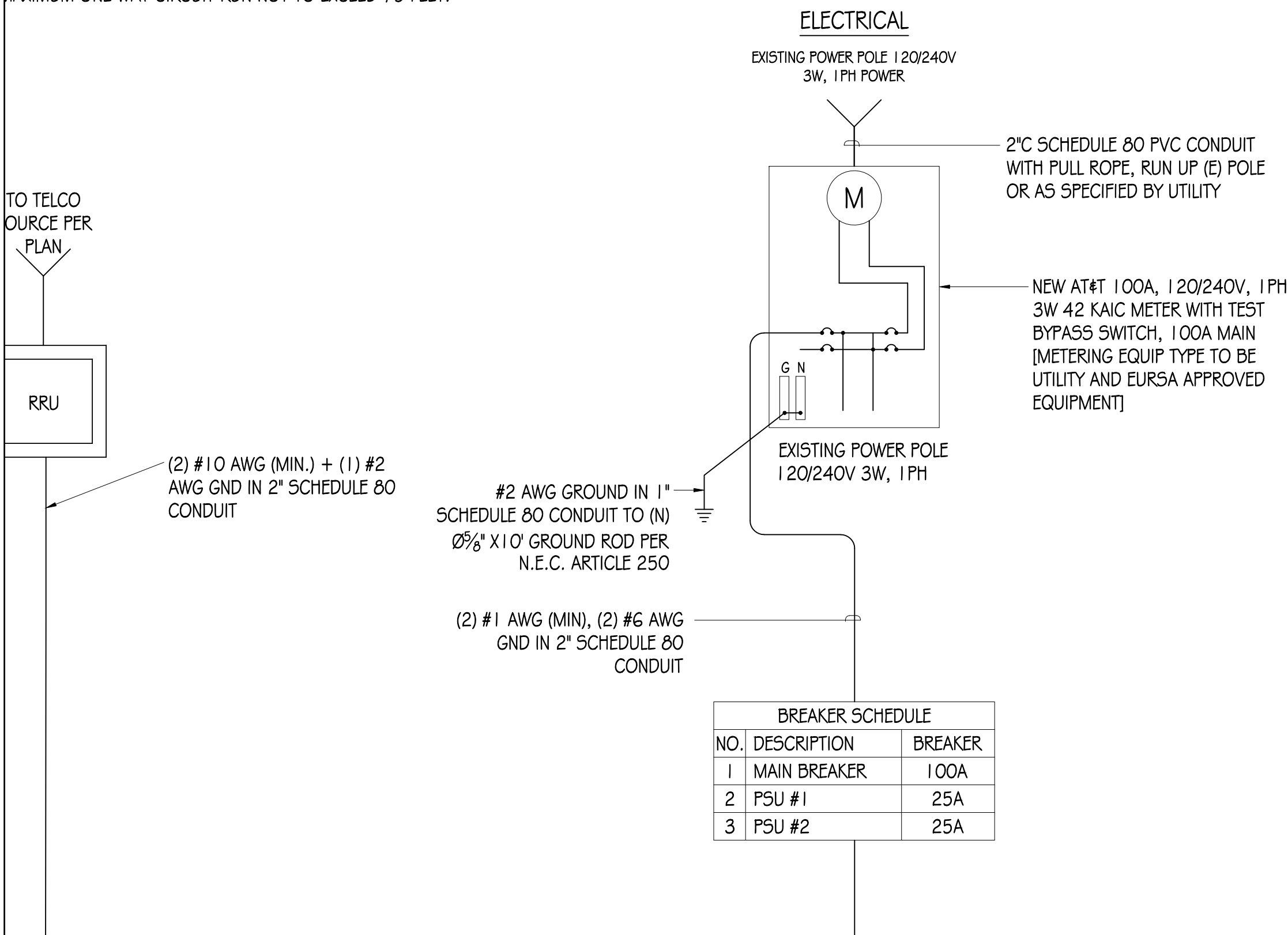
CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/ UTILITY CABINET.

ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.

CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.

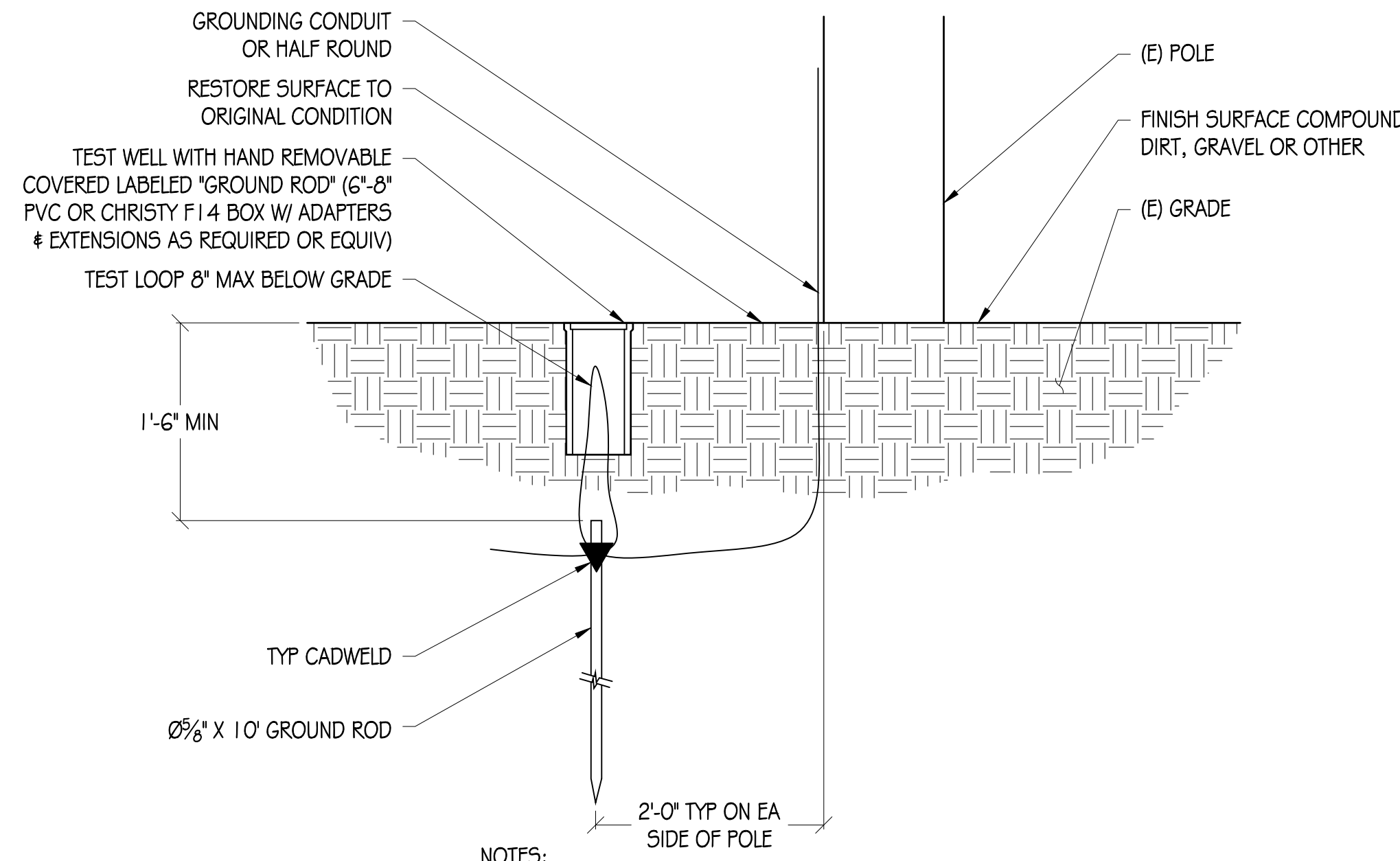
FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.

MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.

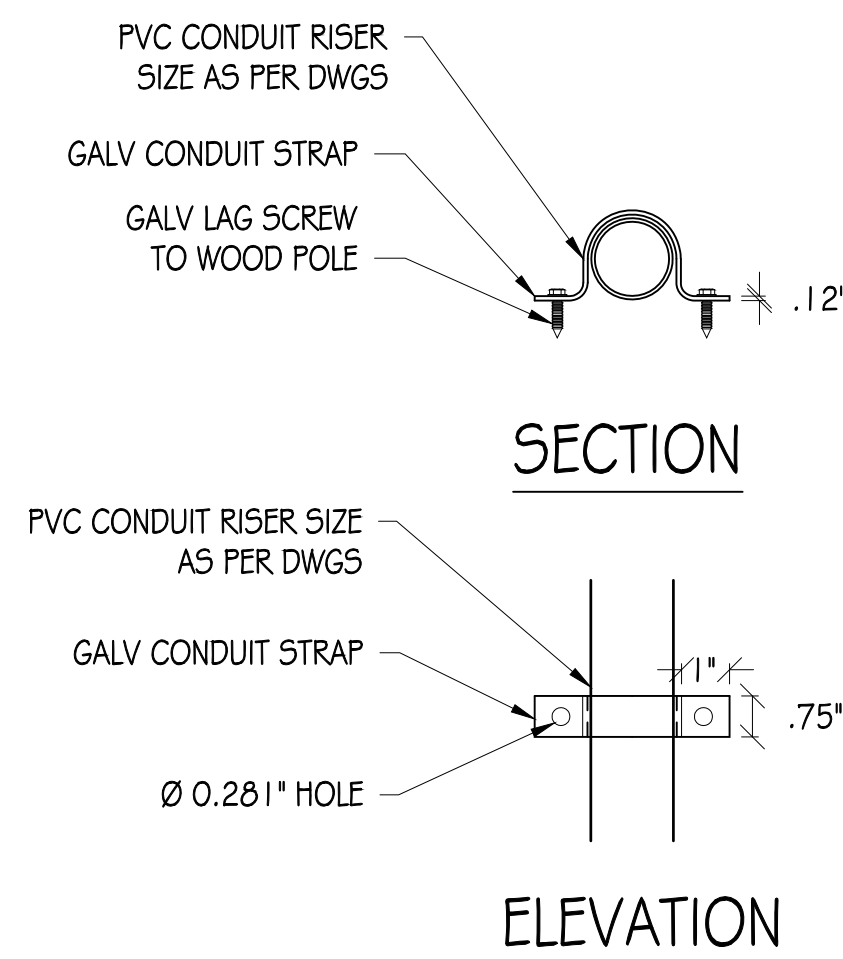


SINGLE-LINE DIAGRAM

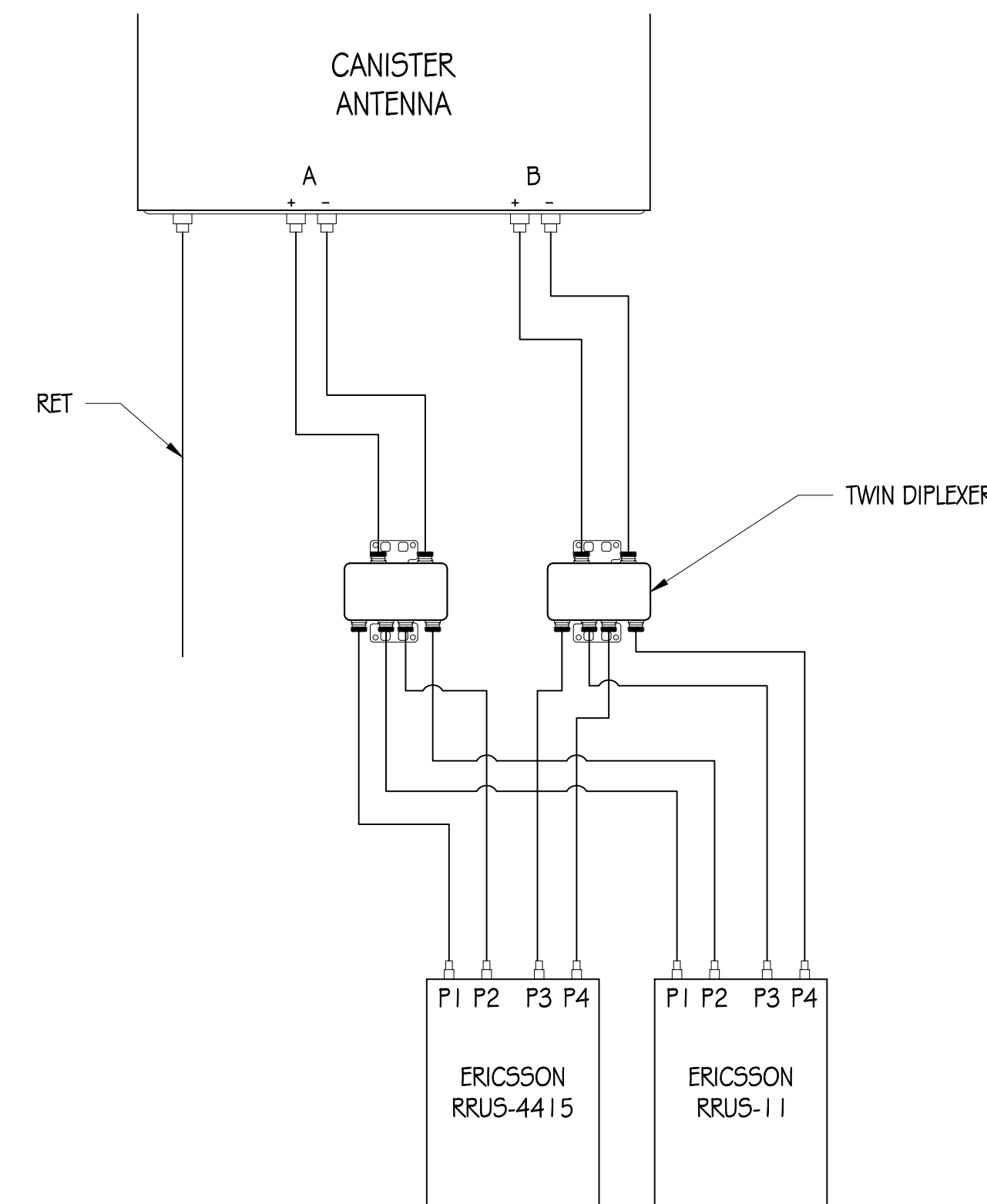
LOAD SCHEDULE								
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TX/RX	MAX TRANSMIT POWER	W	KW
ERICSSON RRUS-32	2	RRU	27.0" X 12.0" X 7.0"	50.7 LBS	2T/2R	< 10W PER RRU	388.83	0.38883
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 8.9" X 4.3"	40 LBS (MAX)	N/A	N/A	N/A	N/A



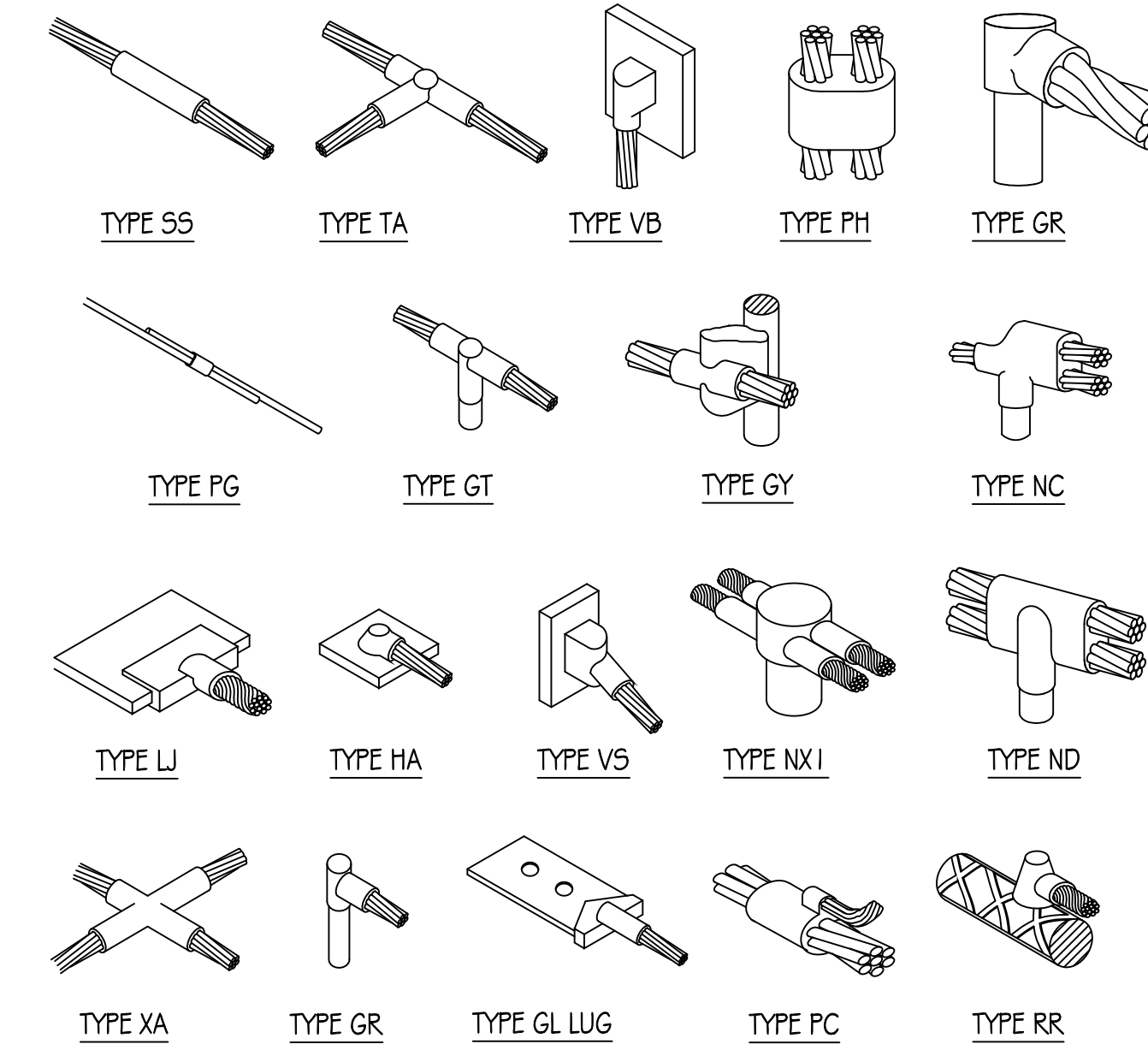
POLE GROUNDING DETAIL



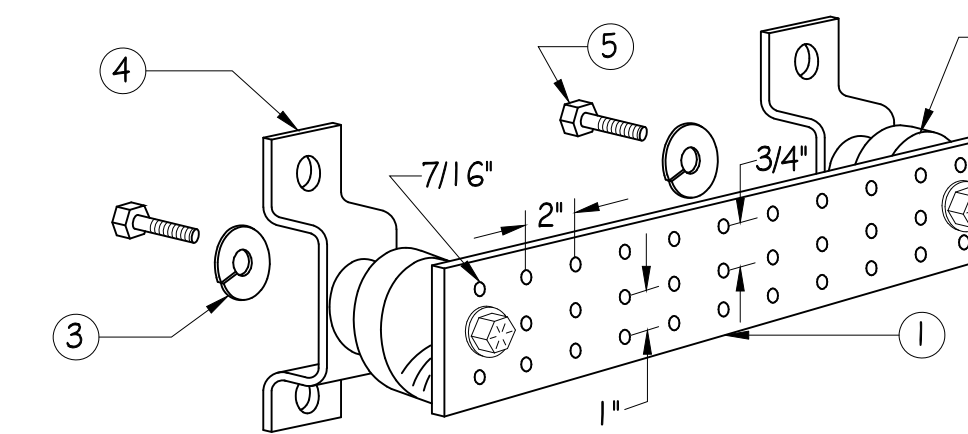
CONDUIT RISER DETAIL



WIRE DIAGRAM DETAIL

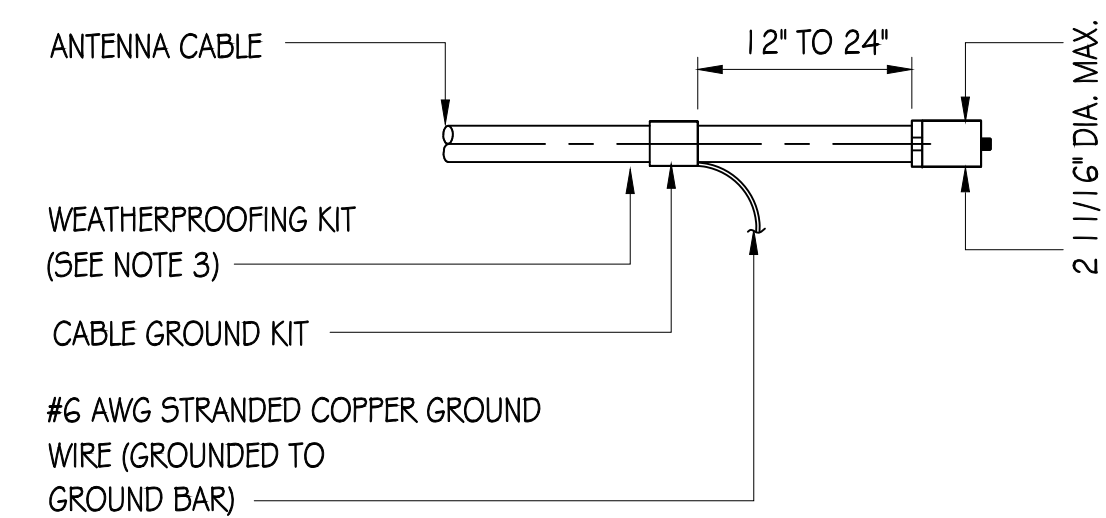


EXOTHERMIC WELD DETAILS



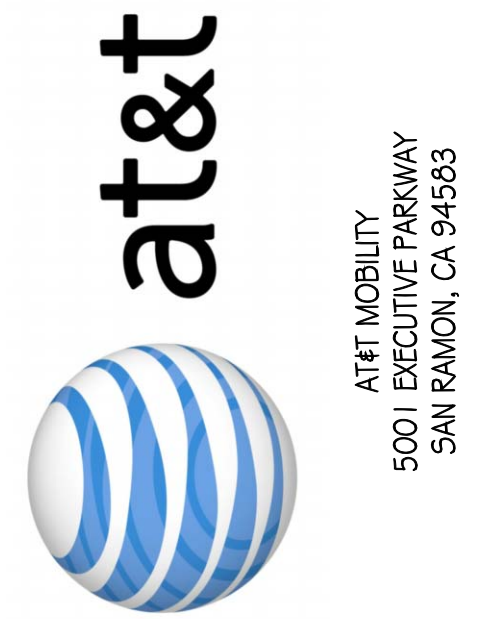
- NOTES:
- GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
 - 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 OR APPROVED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

GROUND BAR DETAIL



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

GND KIT DETAIL

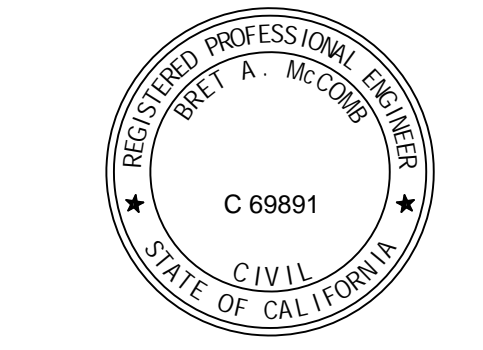


AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



INFRASTRUCTURE EXPERTS. SMALL CELL SPECIALISTS.
36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdand.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603



CRAN_RSFR_LOSAO_07

ROW ADJCT TO 98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

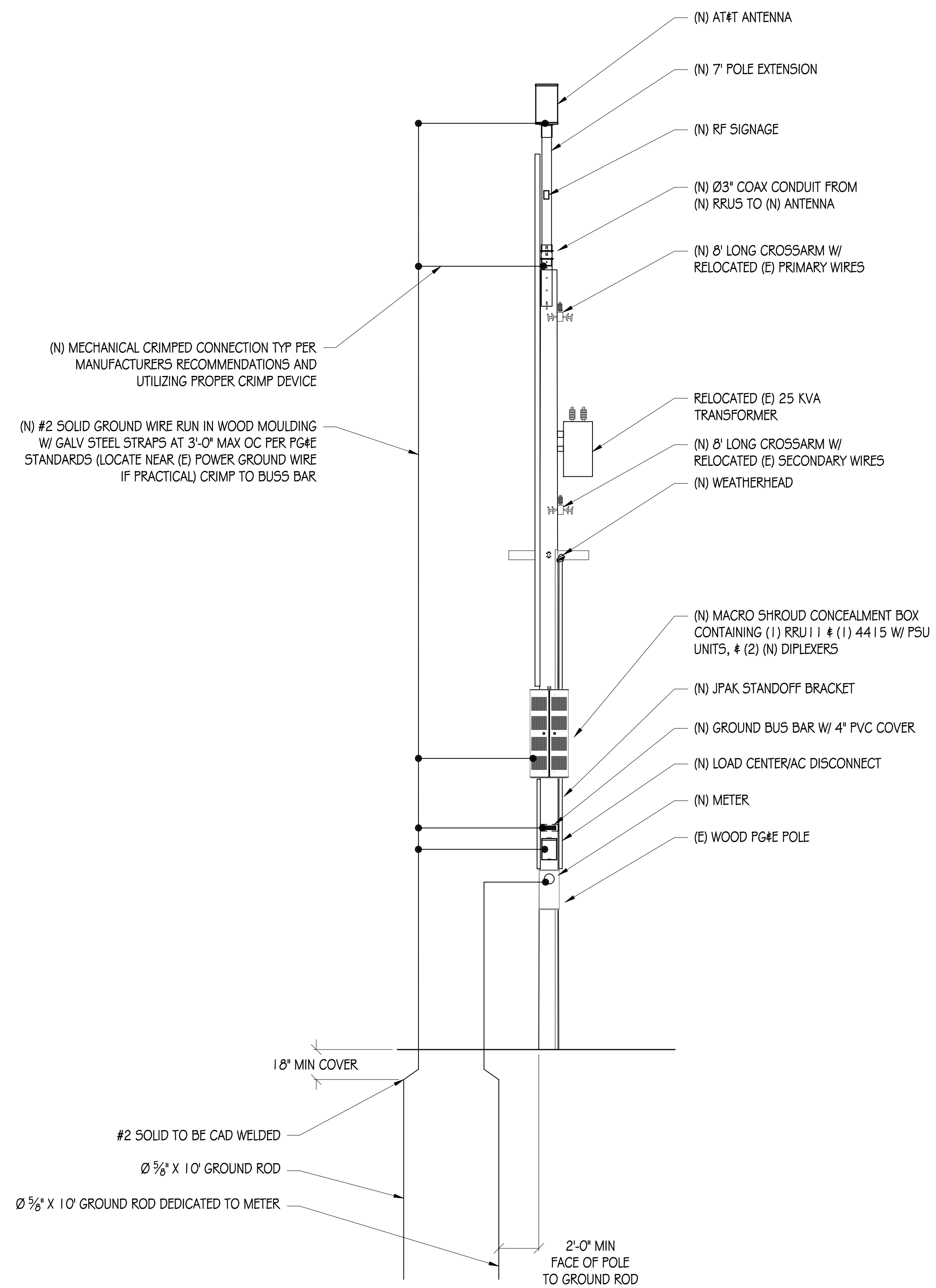
△	DATE	DESCRIPTION
	06/21/18	CD 90%
	03/20/19	CD 100%

DRAWN BY: K. PETERSON
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 03/20/19
SHEET TITLE:

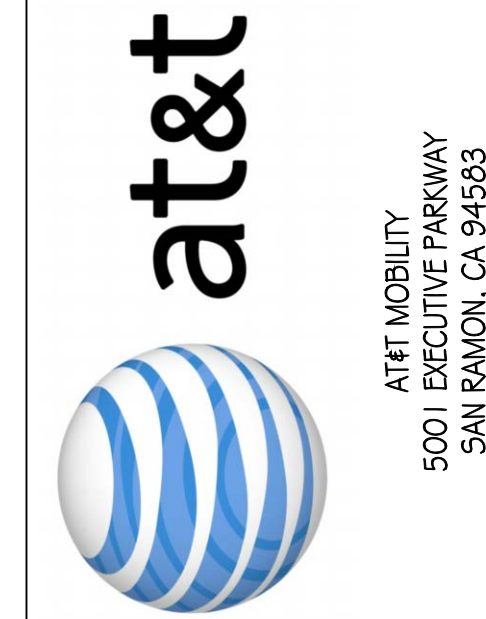
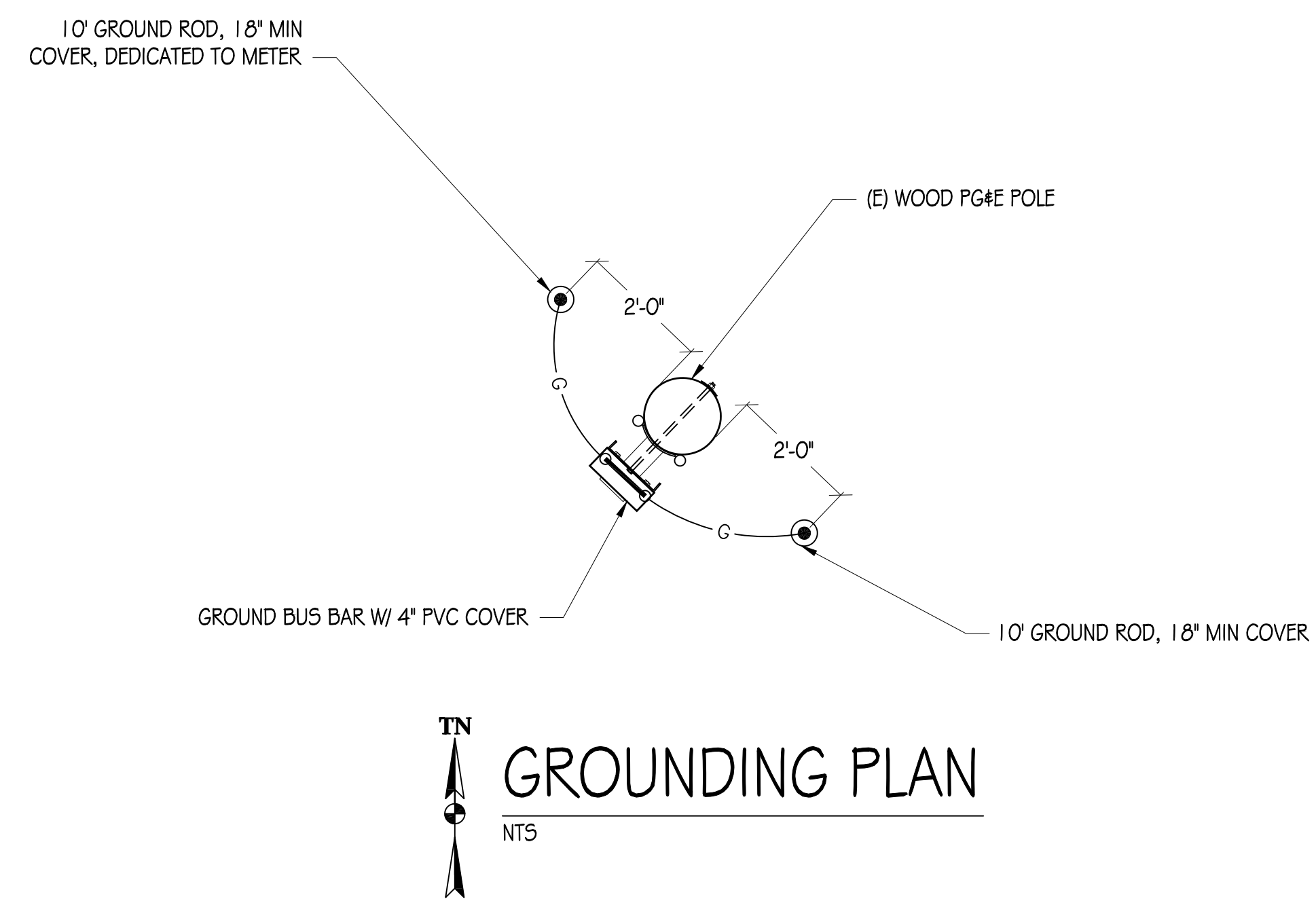
SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER

E-1



POLE GROUNDING DIAGRAM
 NTS



AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



Infrastructure experts. Small cell leaders.
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11768 Alwood Rd, Suite 20 Auburn, CA 95603
THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07
 ROW ADJCT TO 98 ELEANOR AVE
 LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	03/20/19	CD 100%

DRAWN BY: K. PETERSON
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 03/20/19
 SHEET TITLE:

GROUNDING DIAGRAMS
 SHEET NUMBER
E-2

TRAFFIC CONTROL NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON A PUBLIC STREET TO INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES AS SHOWN HEREIN, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT MAY BE REQUIRED TO INSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA AND PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS.
- ALL DELINEATORS SHALL BE EQUIPPED WITH REFLECTORS AT NIGHT TIME.
- THE CONTRACTOR SHALL NOTIFY THE CITY/COUNTY OF RECORD AND CALTRANS PERMIT INSPECTOR AT LEAST FIVE WORKING DAYS IN ADVANCE OF IMPLEMENTING ANY CONSTRUCTION DETOUR.
- ALL SIGNS, DELINEATORS, BARRICADES, ETC. AND THEIR INSTALLATION SHALL CONFIRM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) AND THE MUTCD CALIFORNIA SUPPLEMENT, STATE OF CALIFORNIA STANDARD SPECIFICATION, SPECIAL PROVISIONS, AND STAMPED PLANS.
- THE CITY/COUNTY OF RECORDS AND CALTRANS RESERVE THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN USE AND TO MAKE ANY NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERSEDE THESE PLANS. EXACT LOCATION OF ALL EQUIPMENT AND TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
- ALL TRAFFIC CONTROL DEVICES, STRIPES, MARKINGS, LEGENDS AND RAISED PAVEMENT MARKERS SHALL CONFIRM TO THE MUTCD AND THE CALIFORNIA SUPPLEMENT (LATEST EDITION), THE STATE OF CALIFORNIA STANDARD SPECIFICATION (LATEST EDITION), SPECIAL PROVISIONS, AND STAMPED PLANS.
- ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.
- ALL TRAFFIC LANES SHALL HAVE A MINIMUM OF 5 FEET CLEARANCE FROM OPEN EXCAVATION AND A MINIMUM OF 2 FEET FROM VERTICAL OBSTRUCTIONS.
- CONTRACTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY THE CITY/COUNTY INSPECTOR OR CALTRANS PERMIT INSPECTOR.
- ALL ADVANCE WARNING SIGNS SHALL BE EQUIPPED WITH FLAGS.
- TRAFFIC SIGNALS SHALL REMAIN IN OPERATION AT ALL TIMES. SIGNAL OPERATION DURING EACH CONSTRUCTION PHASE SHALL BE COORDINATED WITH AND APPROVED BY THE CITY/COUNTY OF RECORD AND/OR CALTRANS INSPECTOR.
- PLACE ADDITIONAL "LANE CLOSED", (C30) SIGNS ON TYPE II BARRICADES AT 100 FOOT INTERVALS THROUGHOUT EXTENDED WORK AREAS IN EACH LANE THAT IS CLOSED. INSTALL "OPEN TRENCH" (C27) SIGNS WHENEVER AN OPEN EXCAVATION AREA EXISTS ADJACENT TO THE TRAVELED WAY.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION STAGE AND THE PERMANENT TRAFFIC CONTROL DEVICES SHALL BE RESTORED BY THE CONTRACTOR UPON COMPLETION OF PROJECT.
- CONTRACTOR SHALL REPLACE/REPAIR ALL DAMAGED STRIPING AT THE END OF EACH WORKING DAY.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN DISABILITY ACT AS RELATED TO PEDESTRIAN ACCESS AND SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES PER ADA REQUIREMENTS. SIDEWALK CLOSURE/DETOUR SHALL COMPLY WITH THE WATCH STANDARDS AND MUST OBTAIN APPROVAL FROM THE CITY/COUNTY OF RECORD.
- CONTRACTOR SHALL COVER OR REMOVE ALL CONFLICTING SIGNS.
- CONTRACTOR SHALL POST "SYMBOL" UNEVEN LANES, "STEEL PLATES AHEAD" OR "BUMP" SIGNS FOR PAVEMENT SURFACE DISRUPTIONS OF 3/4" OR GREATER. PAVEMENT DISRUPTIONS FOR 1" OR GREATER SHALL HAVE A BEVELED EDGE OF FOUR (4) HORIZONTAL TO ONE (1) VERTICAL.
- CONTRACTOR SHALL INSTALL "CAUTION STEEL PLATES AHEAD" AND/OR "ROUGH ROAD" SIGNS IN ADVANCE OF STEEL PLATE BRIDGING.
- WORK HOURS SHALL COMPLY WITH SMC 16.08.030.
- RESIDENTS TO BE NOTIFIED OF DATES & TIMES OF CONSTRUCTIONS (2) WEEKS PRIOR TO THE START OF WORK.
- A 5'-0" MIN. PEDESTRIAN CLEARANCE TO BE MAINTAINED AT EXISTING SIDEWALKS.

TABLE 1

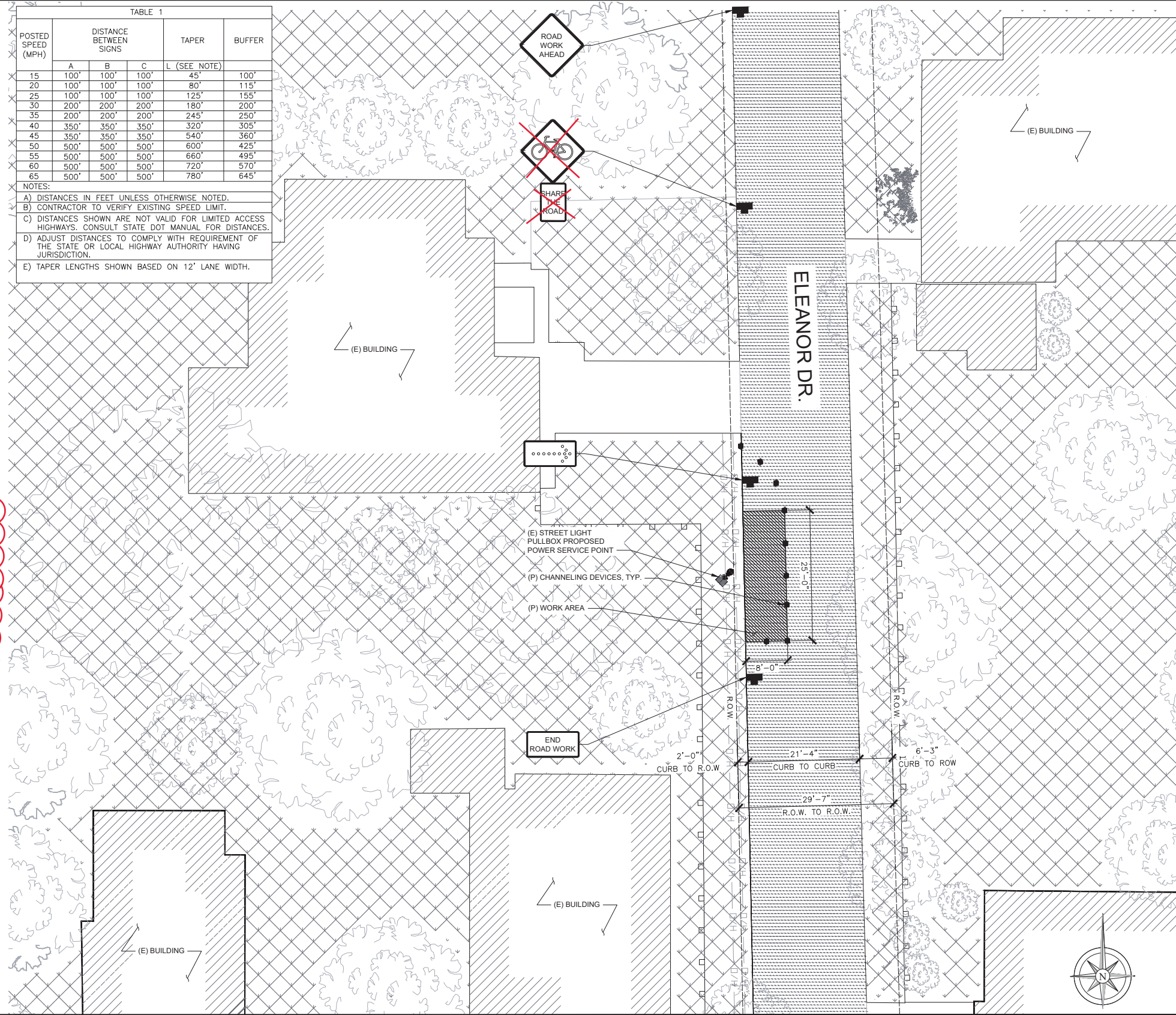
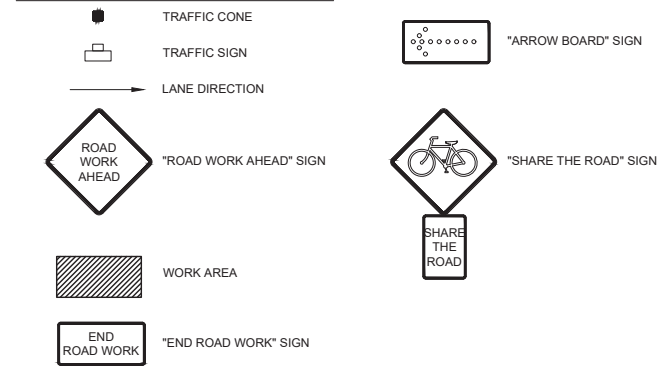
POSTED SPEED (MPH)	DISTANCE BETWEEN SIGNS			TAPER L (SEE NOTE)	BUFFER
	A	B	C		
15	100'	100'	100'	45'	100'
20	100'	100'	100'	80'	115'
25	100'	100'	100'	125'	155'
30	200'	200'	200'	180'	200'
35	200'	200'	200'	245'	250'
40	350'	350'	350'	320'	305'
45	350'	350'	350'	540'	360'
50	500'	500'	500'	600'	425'
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.
 E) TAPER LENGTHS SHOWN BASED ON 12' LANE WIDTH.

- PERMIT NOTES - PLEASE NOTE THE FOLLOWING:**
- ANY WORK AT OR WITHIN 150 FEET OF A SIGNALIZED INTERSECTION MAY REQUIRE TRAFFIC CONTROL, PURSUANT TO SAN JOSE MUNICIPAL CODE SECTION 11.12.050, BY FLAGGER(S) OR CITY OF SAN JOSE POLICE OFFICER(S). THE NEED FOR FLAGGER(S) OR RESERVE POLICE OFFICER(S) WILL BE DETERMINED BASED ON SITE CONDITIONS. FLAGGER(S) SHALL BE SUFFICIENTLY TRAINED AND EQUIPPED IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS, TITLE 8, SECTION 1599. IN ADDITION, FLAGGERS SHALL BE CERTIFIED BY THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) OR THE NATIONAL SAFETY COUNCIL (NSC). THE DIRECTOR OF PUBLIC WORKS RESERVES THE RIGHT TO REQUIRE THE USE OF POLICE OFFICERS WHEN CONDITIONS WARRANT.
 - ANY WORK IN THE DOWNTOWN CORE AREA REQUIRES A MINIMUM 10 DAY NOTICE TO CITY OF SAN JOSE DOWNTOWN TRAFFIC OPERATIONS ENGINEER AT (408) 975-3719, PRIOR TO THE START OF WORK. SEE THE APPLICATION FORM TITLED "DOWNTOWN LANE CLOSURE REQUEST FORM".
 - ANY WORK NEAR VTA LIGHTRAIL REQUIRES A MINIMUM OF 3 WEEKS ADVANCE NOTICE TO VTA LIGHTRAIL OPERATIONS AT (408) 546-7608.
 - ANY WORK PROPOSING TO CLOSE A PARKING LANE WILL REQUIRE THAT "NO PARKING - TOW AWAY" SIGNS BE OBTAINED FROM THE DEPARTMENT OF TRANSPORTATION (408) 535-3850. IF THE PARKING LANE HAS CITY PARKING METERS, THEN ADDITIONAL FEES WILL BE DUE TO COMPENSATE THE CITY FOR LOST REVENUE. SEE THE APPLICATION FORM TITLED "TOW AWAY PERMIT".
 - ANY WORK PROPOSED ON A STREET DESIGNATED AS A STATE HIGHWAY WILL REQUIRE A PERMIT FROM CALTRANS. CONTACT JIM WONG AT (408) 452-7131.

Irrelevant (City of San Jose)

TRAFFIC SYMBOL LEGEND



- Show traffic signs setting within a larger area coverage. Show area at a minimum of 300-ft buffer from work area.
- Show dimensions between sign locations.
- Requires Temporary Lane Closure Permit.
- Requires flaggers to direct traffic during closure.
- Lane closure hours 9am - 3pm.

5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

6140 STONERIDGE MALL MD
THIRD FLOOR
PLEASANTON, CA 94588

36 EXECUTIVE PARK
SUITE 210
IRVINE, CA 92614

REV	DATE	DESCRIPTION	BY
A	1/31/19	90% CD	CSH

CRAN-RSFR LOSAO_07
 FA TBD
 ROW ADJCT TO
 98 ELEANOR AVE.
 LOS ALTOS, CA 94022

SHEET TITLE
TRAFFIC PLAN

SHEET NUMBER
TR-1

24"x36" SCALE: 3/32" = 1'-0"
 11"x17" SCALE: 3/64" = 1'-0"



Date:	February 15, 2018
Scale:	Per Plan
Designed:	RC
Drawn:	RC
Checked:	ZLN
Proj. Engr:	ZLN
File:	

REVISIONS

TRAFFIC PLAN 1



at&t

SITE ID:
SITE ADDRESS:

CRAN_RSFR_LOSAO_07
98 ELEANOR AVE
LOS ALTOS, CA 94022

PM#:
SITE TYPE:
POLE OWNER:
FA LOCATION:
USID:

114474414
PG&E POLE #TBD
PG&E
14816596
198299



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

SITE INFORMATION

APPLICANT: AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

AGENT: SURESITE
36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

APN: ADJCT TO 170-42-008

SITE ADDRESS: 98 ELEANOR AVE
LOS ALTOS, CA 94002

COUNTY: SANTA CLARA

LATITUDE: 37° 22' 48.10" N (37.380028) NAD 83

LONGITUDE: 122° 06' 35.06" W (-122.109739) NAD 83

GROUND ELEVATION: ± 169.9' AMSL

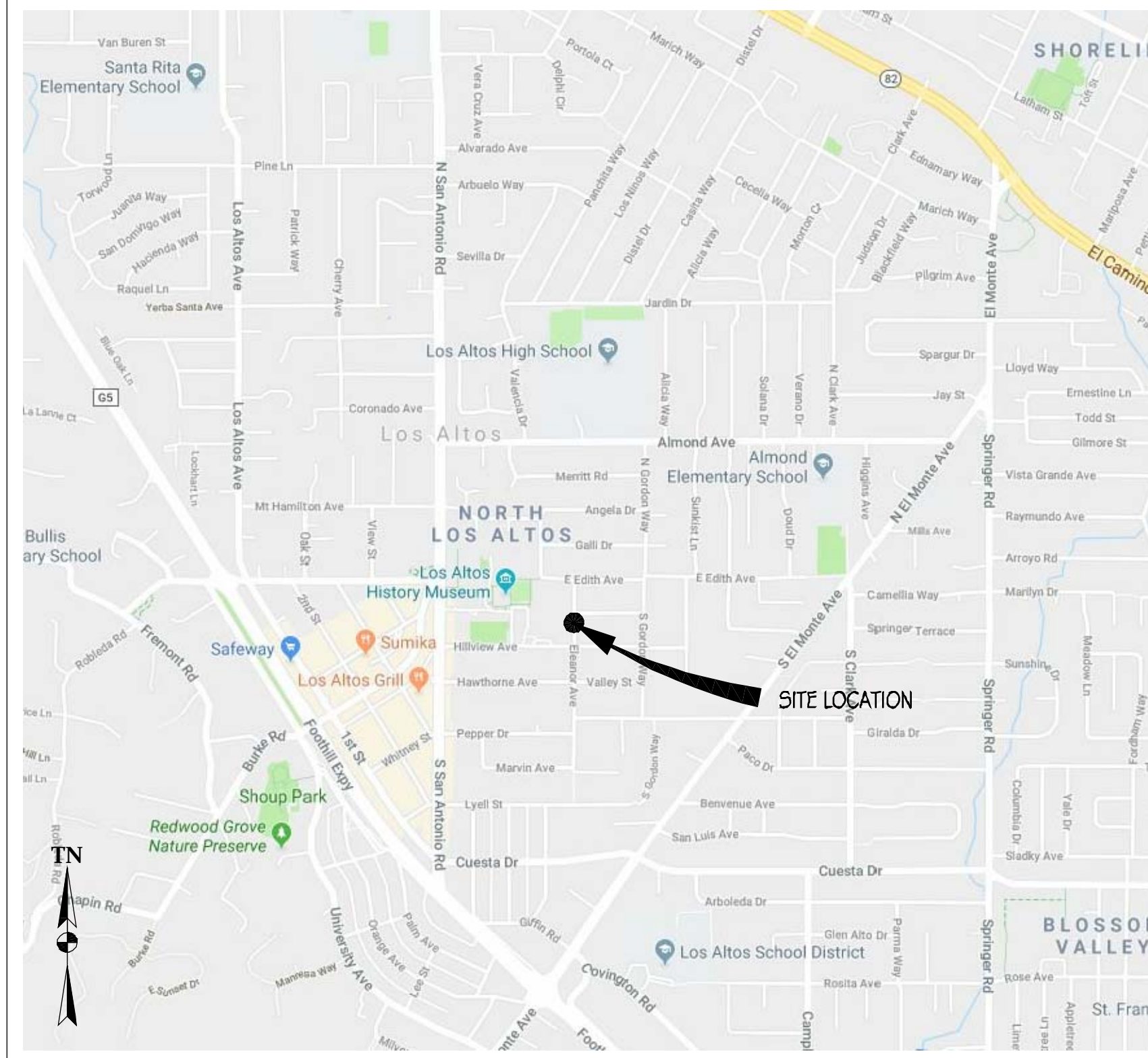
ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

PG&E SAP ID: 100512852

STREET CLASSIFICATION: LOCAL

VICINITY MAP



PROJECT TEAM

AGENT:
SURESITE
2033 GATEWAY PLACE, 6TH FLOOR
SAN JOSE, CA 95110
(949) 278-2962
L.MEINERS@SURE-SITE.COM

PROJECT MANAGERS:
CHRIS JOHNSON
ERICSSON
6140 STONERIDGE MALL RD, SUITE 350
PLEASANTON, CA 94588
(408) 796-8443
CHRISTOPHER.JOHNSON@ERICSSON.COM

ARCHITECT/ENGINEER OF RECORD:
BRET McCOMB
PRECISION DESIGN & DRAFTING, INC
11768 ATWOOD ROAD, SUITE #20
AUBURN, CA 95603
(530) 823-6546
BRET@PDND.COM

CONSTRUCTION MANAGER:
DELBERT BUTCHER
ERICSSON
6140 STONERIDGE MALL ROAD, SUITE 350
PLEASANTON, CA 94588
(720) 317-7282

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT ON AN (E) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK:

1. INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON G095 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRU5-4415 & (1) RRU5-11 W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L1OH2-0GT CYLINDRICAL ANTENNA.
2. ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL.
3. UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.
4. FIBER CONNECTION TO BE SECURE UNDER SEPARATE ENCROACHMENT PERMIT.

DRAWING INDEX

SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
T-2	GENERAL NOTES, LEGEND, & ABBREVIATIONS
A-1	SITE PLAN
A-2	EQUIPMENT PLAN & ANTENNA PLANS
A-3	ELEVATIONS
A-4	ELEVATIONS
A-5	DETAILS
A-6	DETAILS
E-1	SINGLE-LINE DIAGRAM & DETAILS
E-2	GROUNDING DIAGRAMS
TR-1	TRAFFIC CONTROL PLAN

CODE COMPLIANCE

- CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:
1. 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
 2. 2016 CALIFORNIA BUILDING CODE
 3. 2016 CALIFORNIA ELECTRICAL CODE
 4. 2016 CALIFORNIA MECHANICAL CODE
 5. 2016 CALIFORNIA PLUMBING CODE
 6. 2016 CALIFORNIA FIRE CODE
 7. LOCAL BUILDING CODES
 8. CITY/COUNTY ORDINANCES
 9. ANS/JEIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
TO: 98 ELEANOR AVE LOS ALTOS, CA 94022

1. HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR 256 FT
2. TURN RIGHT ONTO SUNSET DR 0.1 MI
3. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI
4. USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI
5. MERGE ONTO I-680 S 21.5 MI
6. TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-880 0.2 MI
7. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO CA-262 S MISSION BLVD 0.3 MI
8. MERGE ONTO CA-262 S MISSION BLVD 0.6 MI
9. USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD INTERSTATE 880 S/SAN JOSE 0.9 MI
10. MERGE ONTO I-880 S 3.1 MI
11. USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW 0.9 MI
12. CONTINUE ONTO CA-237 W 8.4 MI
13. TAKE EL CAMINO REAL AND EL MONTE AVE TO ELEANOR AVE IN LOS ALTOS

END AT: 98 ELEANOR AVE LOS ALTOS, CA 94022

ESTIMATED TIME: 48 MINS ESTIMATED DISTANCE: 40.2 MI



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" X 17" PLOT. DRAWINGS WILL BE HALF SCALE.

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603



CRAN_RSFR_LOSAO_07

98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: K.P. / T.J.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:

TITLE SHEET

SHEET NUMBER

T-1

GENERAL CONSTRUCTION NOTES

- PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVYORS MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IS ANY DISCREPANCY IS FOUND BETWEEN THE CAREOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED/ DISRUPTED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- INCLUDE MISC ITEMS PER AFWI WIRELESS SPECIFICATIONS.
- ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHUTDOWN SIGNALS) OR PG&E REGULATIONS SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED LOGOS OR TEXT ON EQUIPMENT (E.G. RUGS), IF PRESENT, TO BE SANDED OFF OR COVERED WITH STICKER, & THEN PAINTED OVER.
- FONDED RF W/AC MARKING SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD THE BUILDING IF THERE IS NO WINDOW.
- ALL EQUIPMENT, INCLUDING ANTENNAS, MOUNTING STANDOFF BRACKETS, POLE EXTENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED MESA BROWN USING A DURABLE OUTDOOR PAINT.
- CABLING SHALL BE MESA BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS, & SHALL BE HIDDEN FROM VIEW TO THE MAXIMUM EXTENT POSSIBLE.
- SUPPORT EQUIPMENT (E.G. METERS, DISCONNECT SWITCH, ETC) TO BE CLUSTERED VERTICALLY AS CLOSE AS TECHNICALLY FEASIBLE ON POLE.

SYMBOLS LEGEND

	NEW ANTENNA		GROUT OR PLASTER
	EXISTING ANTENNA		(E) BRICK
	GROUND ROD		(E) MASONRY
	GROUND BUSS BAR		CONCRETE
	MECHANICAL GRND. CONN.		EARTH
	GROUND ACCESS WELL		GRAVEL
	ELECTRIC BOX		PLYWOOD
	TELEPHONE BOX		SAND
	LIGHT POLE		WOOD CONT.
	FND. MONUMENT		WOOD BLOCKING
	SPOT ELEVATION		STEEL
	SET POINT		CENTERLINE
	REVISION		PROPERTY LINE
	GRID REFERENCE		MATCH LINE
	DETAIL REFERENCE		WORK POINT
	ELEVATION REFERENCE		GROUND CONDUCTOR
	SECTION REFERENCE		COAX
			OVERHEAD SERVICE CONDUCTORS
			CHAIN LINK FENCING
			OVERHEAD TELEPHONE/OVERHEAD POWER
			OVERHEAD TELEPHONE LINE
			OVERHEAD POWER LINE
			POWER RUN

GENERAL NOTES FOR EXISTING CELL SITES

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

APPLICABLE CODES, REGULATIONS, AND STANDARDS

- CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
 - INSTITUTION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT
 - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
 - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
 - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
 - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
 - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
 - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
 - FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

- MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
- ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED.
- IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- IN DIRT SLURRY 1" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BATTERY TALE
- WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #1 & 6 WARNING TAPE ABOVE RING.

GENERAL GROUNDING NOTES

- 5/8" x 10' ROD, CAD WELD BELOW GRADE
- GROUND TESTED AT 5 OHMS OR LESS.
- #2 GROUND AND BOND WIRE
- GROUND 2" MIN FROM POLE.
- PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBD OR STRONG BOX.
- WOOD MOULDING, STAPLED EVERY 3" AND AT EACH END, UNLESS OTHERWISE NOTED.

GENERAL CONDUIT NOTES

- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE.
- 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
- CONTRACTOR TO STUB UP POLE 10" w/ 3" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 3" STUBS SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.

TYPICAL R.O.W. POLE CONSTRUCTION NOTES

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

ABBREVIATIONS

A	AMPERE	HT	HEIGHT
AB	ANCHOR BOLT	ICB	ISOLATED COPPER GROUND BUSS
ABY	ABOVE	IN, (I)	INCHES
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT	INTERIOR
ADD	ADDITIONAL	LB, (L)	POUNDS
AFF	ABOVE FINISHED FLOOR	LAG	LAG BOLTS
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET (FOOT)
AG	AMPERE INTERRUPTING CAPACITY	LTH	LENGTH
ALUM	ALUMINUM	L	LONGITUDINAL
ALT	ALTERNATE	LP5	LOW PRESSURE SODIUM
ANT	ANTENNA	MAS	MAXIMUM
APPROX	APPROXIMATELY	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MB	MACHINE BOLT
AT	AMPERE TAP	MCH	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MFR	MANUFACTURER
BATT	BATTERY	MIN	MINIMUM
BD	BOARD	MISC	MISCELLANEOUS
BLDG	BUILDING	MNL	MANUAL
BLK	BLOCK	MNTD	MOUNTED
BLDG	BLOCKING	MNTG	MOUNTING
BM	BEAM	MTL	METAL
BN	BOUNDARY NAILING	MTS	MANUAL TRANSFER SWITCH
BR	BRAND	N	NEUTRAL
BRKR	BREAKER	NI	NEW
BTOW	BARE TINNED COPPER WIRE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BTS	BASE TRANSMISSION SYSTEM	NO, (N)	NUMBER
BOF	BOTTOM OF FOOTING	NTS	NOT TO SCALE
BU	BACK UP CABINET	OH	OVERHEAD
C	CONDUIT	OC	ON CENTER
CAB	CABINET	OPNG	OPENING
CANT	CANTILEVERED	P	POLE
CB	CIRCUIT BREAKER	PC	PRECAST CONCRETE
CP	CAST IN PLACE	PCCS	PERSONAL COMMUNICATION SERVICES
CR	CIRCUIT	PH	PHASE
CLG	CLEARING	PLY	PLYWOOD
CLR	CLEAR	PNBD	PANELBOARD
COL	COLUMN	PFC	POWER PROTECTION CABINET
CONN	CONNECTION	PFR	PRIMARY RADIO CABINET
CONN	CONNECTION(OR)	PRI	PRIMARY
CONST	CONSTRUCTION	PSF	POUNDS PER SQUARE FOOT
CONT	CONTAINER	PSI	POUNDS PER SQUARE INCH
J	JUNNY (NAILS)	PT	PRESSURE TREATED
DBL	DOUBLE	PWR	POWER (CABINET)
DEM	DEMAND	QTY	QUANTITY
DEPT	DEPARTMENT	RAD, (R)	RADIUS
DF	DOUGLAS FIR	RCPT	RECEPTACLE
DM	DIMETER	RFS	SOFT DRAWN BARE COPPER
DIAG	DIAGONAL	REIN	REINFORCEMENT(ING)
DN	DIMENSION	REQD	REQUIRED
DWG	DRAWINGS	RIGD	RIGID GALVANIZED STEEL
DWL	DOWELS	SAF	SAFETY
EAC	EACH	SCH	SCHEDULE
EGR	EMERGENCY GENERATOR RECEPTACLE	SCH	SECONDARY
EL	ELEVATION	SH	SECONDARY
ELEC	ELECTRICAL	SIM	SHEET
ELEV	ELEVATOR	SN	SOLID NEUTRAL
EMT	ELECTRICAL METALLIC TUBING	SPEC	SPECIFICATIONS
EN	EDGE NAIL	SQ	SQUARE
ENCL	ENCLOSURE	SP	STAINLESS STEEL
ENGR	ENGINEER	STD	STANDARD
EQ	EQUAL	STR	STRUCTURAL
EQS	EQUALS	STRF	STRUCTURAL SURF
EXST, (D)	EXISTING	SW	SWITCH
EXP	EXPANSION	TEL	TELEPHONE </td
EXT	EXTERIOR	TEMP	TEMPORARY
FAB	FABRICATION(OR)	THICK	THICKNESS
FAC	FACE	TN	TOE NAIL
FA	FIRE ALARM	TOA	TOP OF ANTENNA
FF	FINISH FLOOR	TOC	TOP OF CURB
FG	FINISH GRADE	TOP	TOP OF FOUNDATION
FN	FINISHED	TOP	TOP OF PLATE (PARAPET)
FLR	FLOOR	TOP	TOP OF CONCRETE
FLUR	FLUORESCENT	TOP	TOP OF MASONRY
FM	FOUNDATION	TOP	TOP OF STUD
FOM	FACE OF MASONRY	TOW	TOP OF WALL
FOC	FACE OF CURB	TP	TYPICAL
POS	FACE OF POST	UG	UNDERGROUND
POW	FACE OF WALL	UL	UNDERWRITERS LABORATORY INC.
PT, (P)	FINISH SURFACE	UNO	UNLESS NOTED OTHERWISE
PT, (D)	FOOT (FEET)	VOL	VOLTS ALTERNATING CURRENT
FTG	FOOTING	VIF	VERIFY IN FIELD
FU	FUSE	W	WAIT OR WIRE
G	GROUND	WD	WIDEN(WIDTH)
GR	GROWTH (CABINET)	WI	WITH
GA	GAUGE	WO	WOOD
GALV	GALVANIZED	WTH	WEATHERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WT	WEIGHT
GLB	GLUE LAMINATED BEAM	XFR	TRANSFER
GND	GROUND	XTMR	TRANSFORMER
GFS	GLOBAL POSITIONING SYSTEM	C	CENTERLINE
GRD	GROUND	E	PLATE
HDC	HARD DRAWN COPPER WIRE		
HDG	HOT-DIP GALVANIZED		
HDR	HANGER		
HGR	HANGER		
HPS	HIGH PRESSURE SODIUM		



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdrd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. NO REPRODUCTION OR REUSE OF ANY PART OF THESE PLANS OR SPECIFICATIONS SHALL BE MADE WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	07/25/19	CD 100%

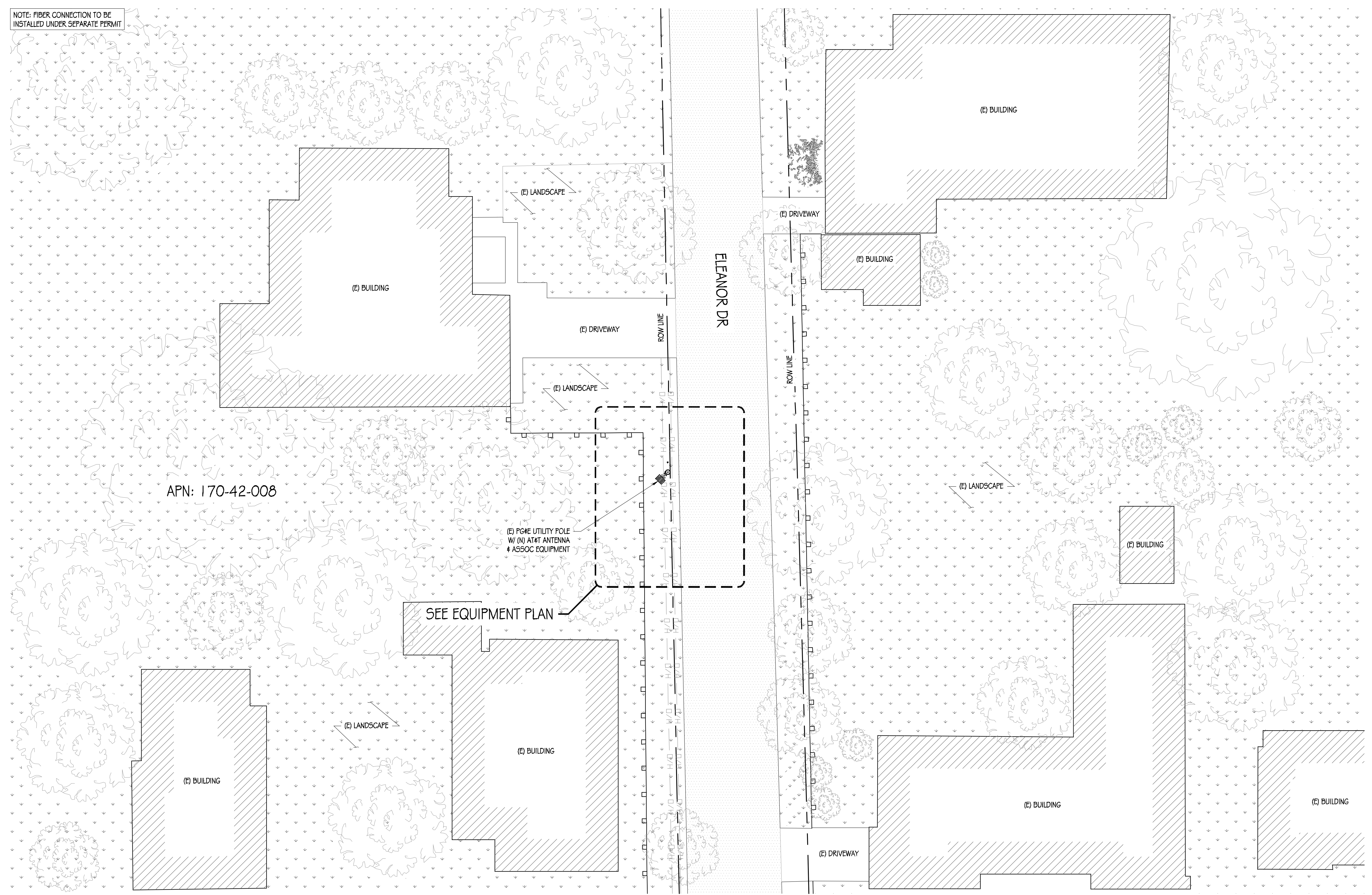
DRAWN BY:	K.P. / T.J.
CHECKED BY:	T. D'CARLO
APPROVED BY:	B. McCOMB
DATE:	07/25/19
SHEET TITLE:	

GENERAL NOTES, LEGEND, & ABBREVIATIONS

SHEET NUMBER

T-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



APN: 170-42-008

(E) PG&E UTILITY POLE
W/ (N) AT&T ANTENNA
& ASSOC EQUIPMENT

SEE EQUIPMENT PLAN



SITE PLAN



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE PLANS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THE CLIENT FOR ANY PROJECTS WITHOUT THE WRITTEN CONSENT OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	07/25/19	CD 100%

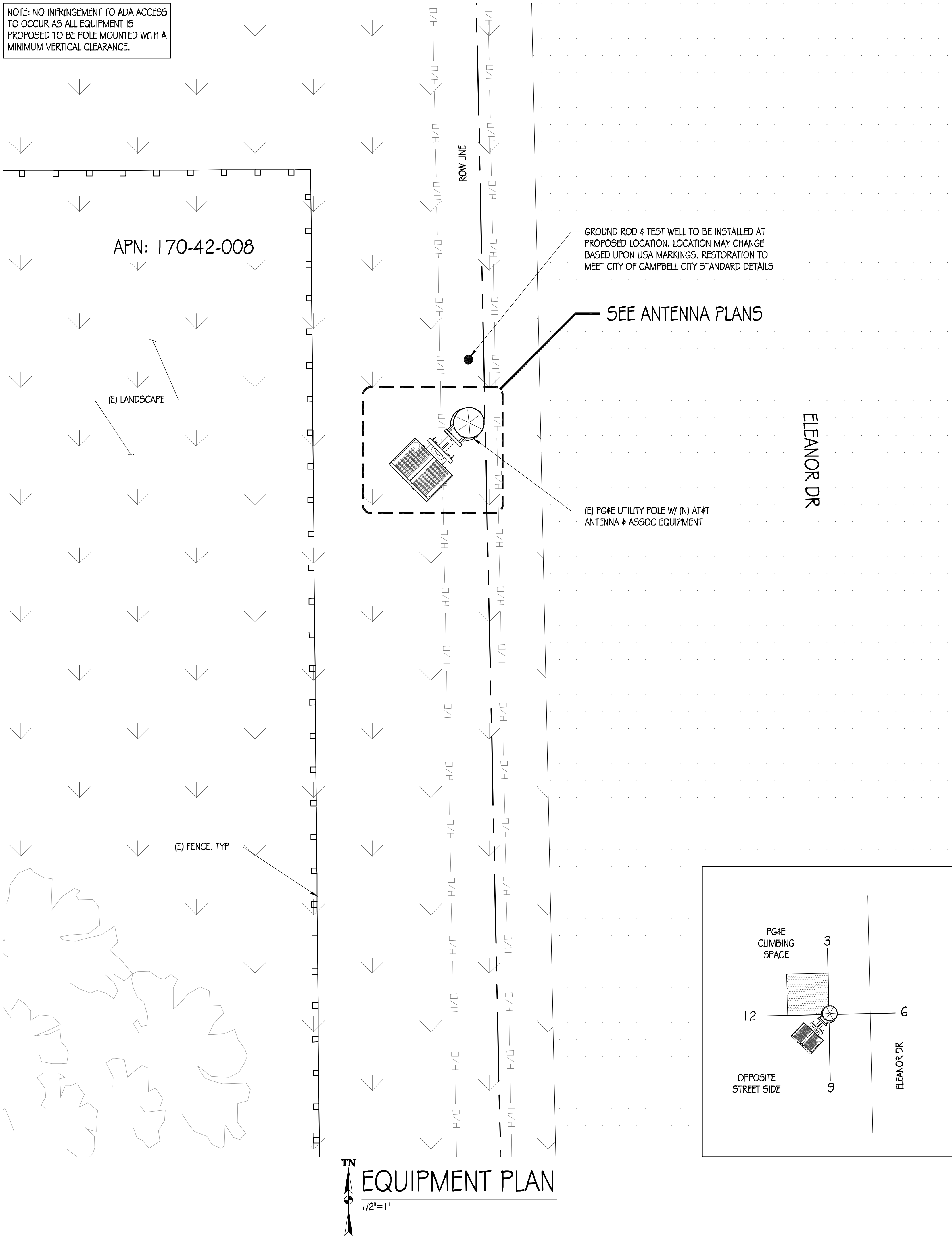
DRAWN BY: K.F. / T.J.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19
SHEET TITLE:

SITE PLAN

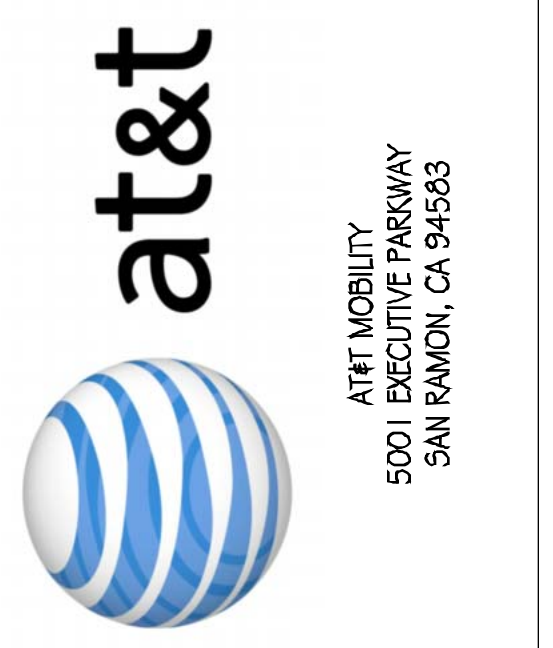
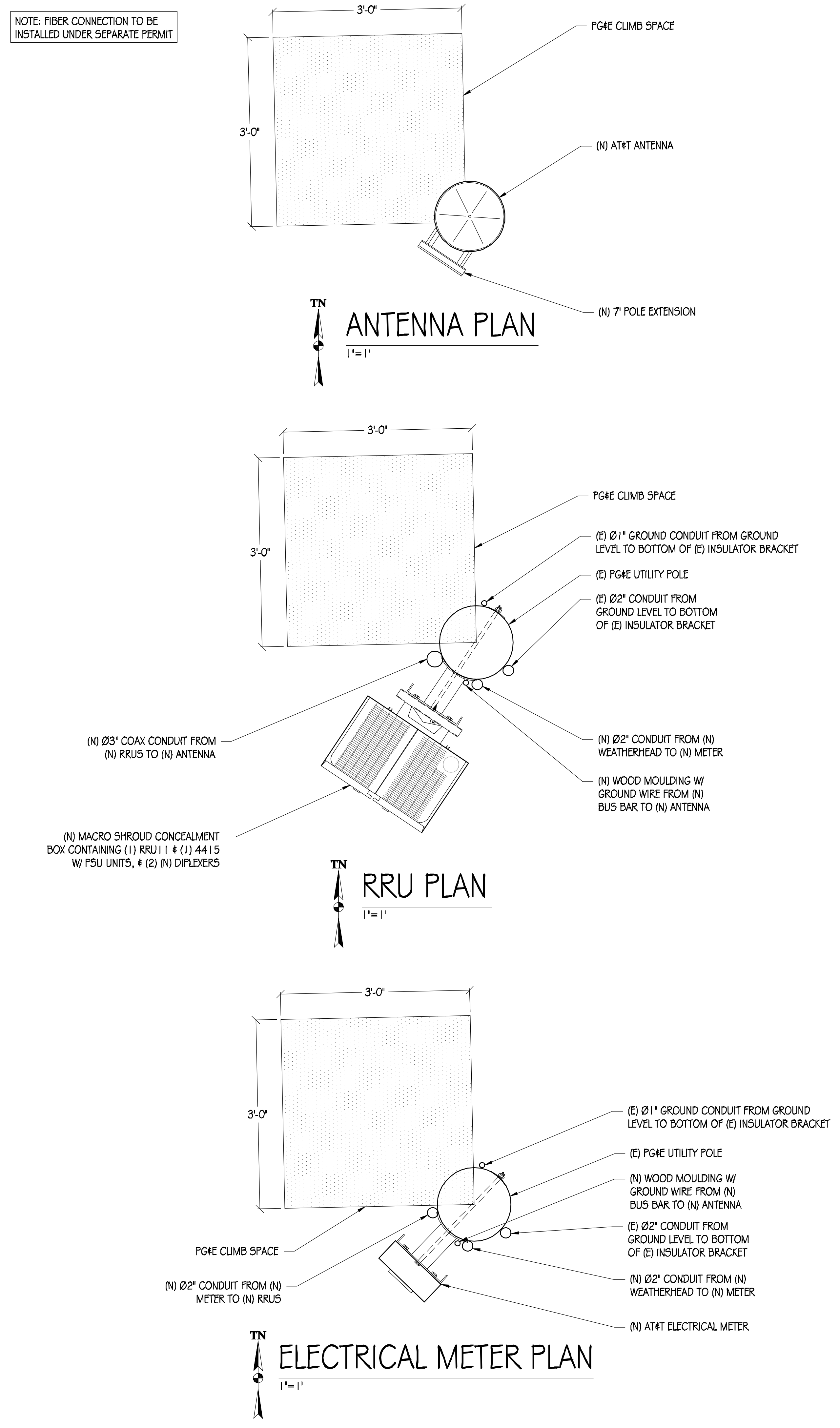
SHEET NUMBER

A-1

NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.



NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN OUR CLIENTS WITHOUT OUR WRITTEN PERMISSION.



CRAN_RSFR_LOSAO_07

98 ELEANOR AVE
LOS ALTOS, CA 94022

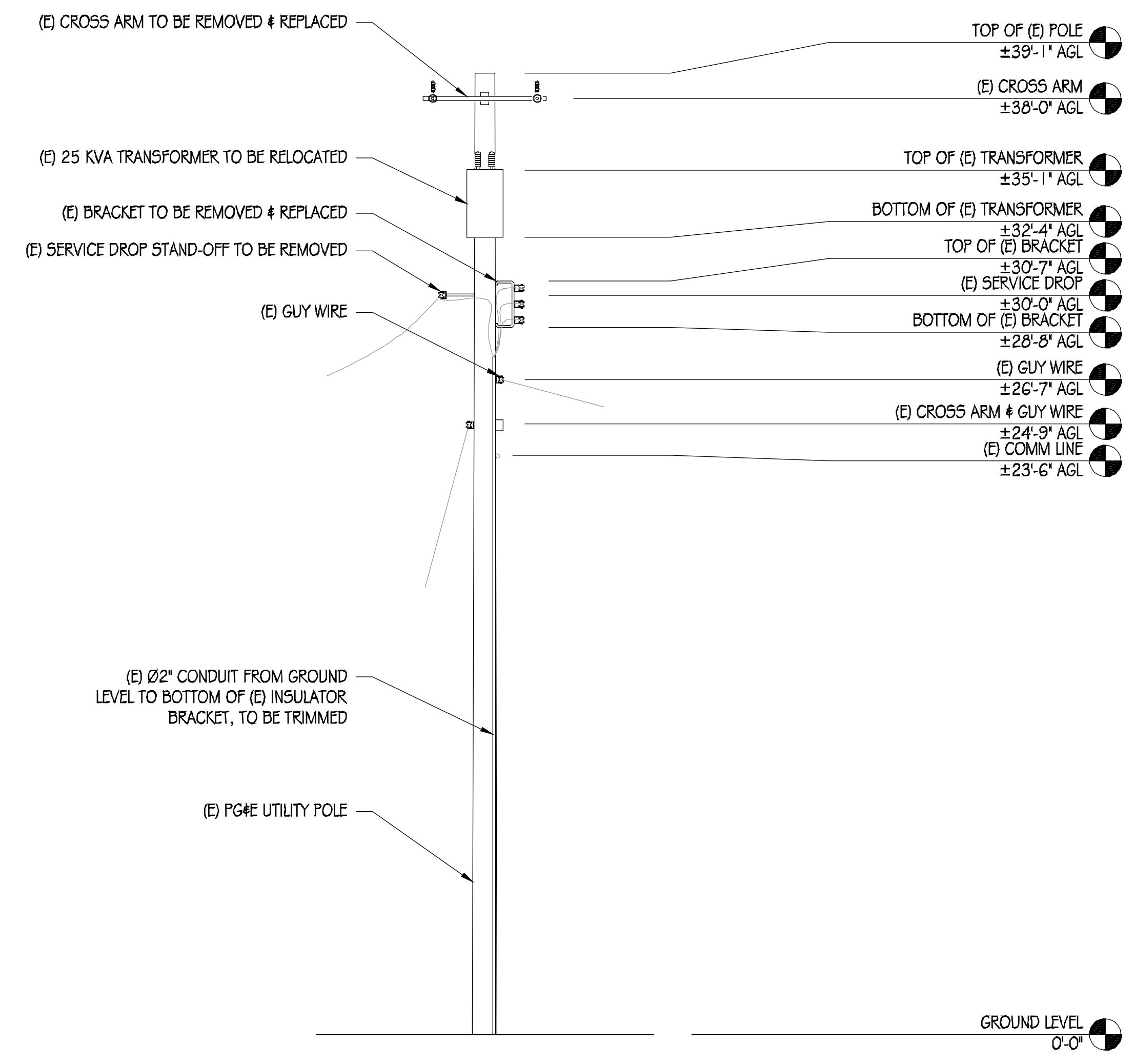
ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: K.P. / T.J.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19
SHEET TITLE:

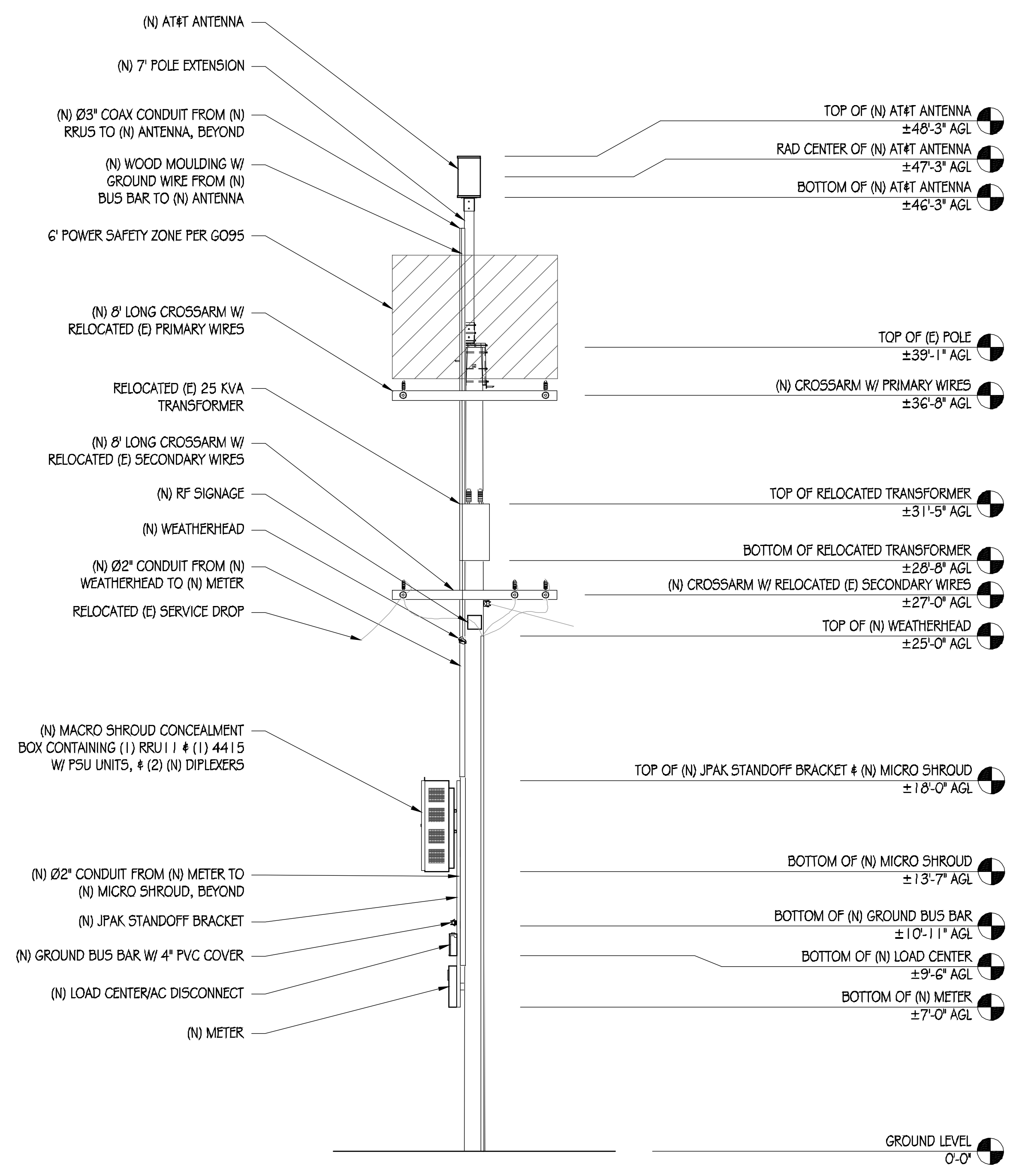
EQUIPMENT PLAN &
ANTENNA PLANS
SHEET NUMBER
A-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING SOUTH ELEVATION

1/4" = 1'-0"



NEW SOUTH ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 822-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE OUR SOLE PROPERTY AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. NO PART OF THESE PLANS OR SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

98 ELEANOR AVE
LOS ALTOS, CA 94022

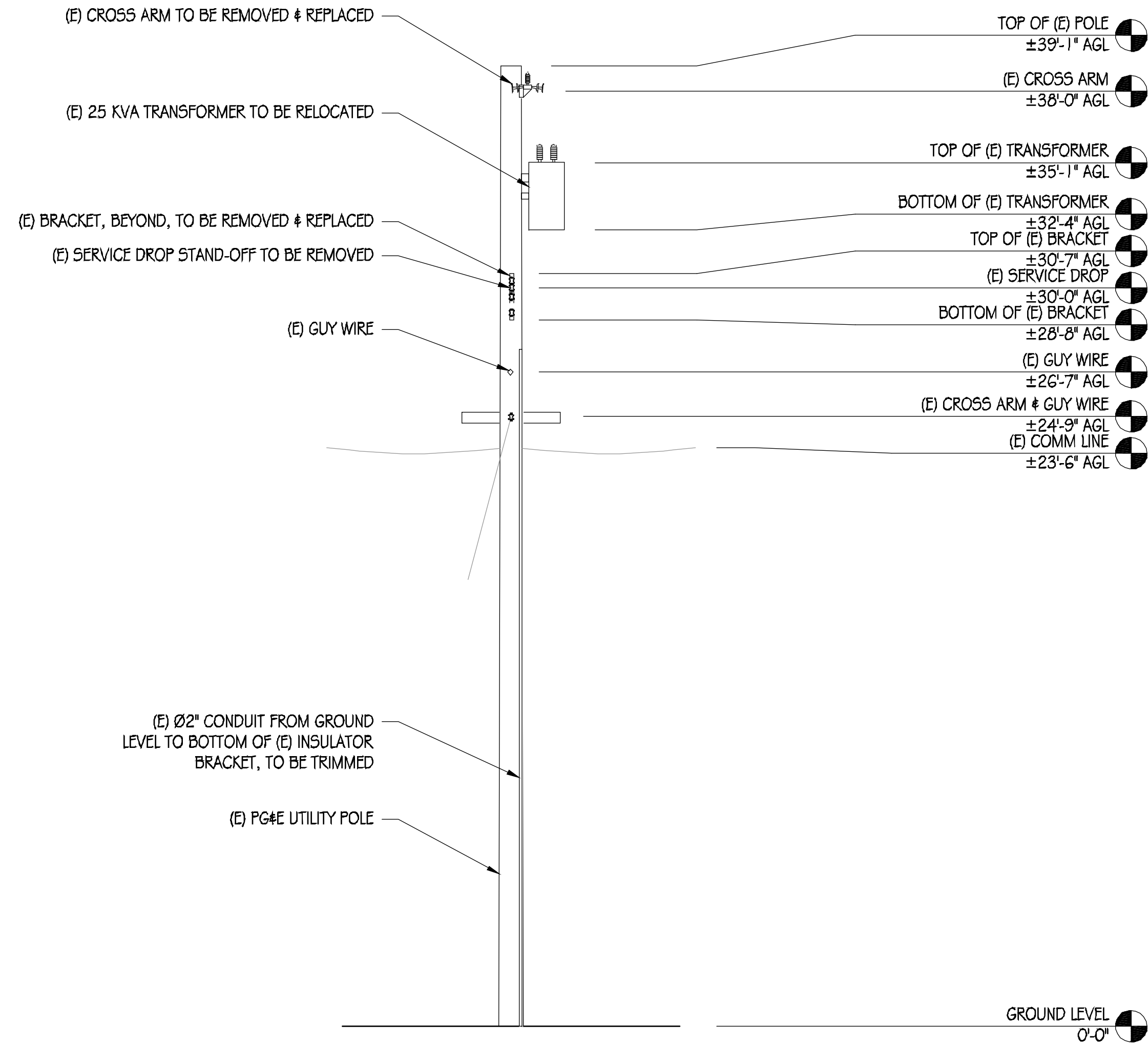
ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: K.F. / T.J.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

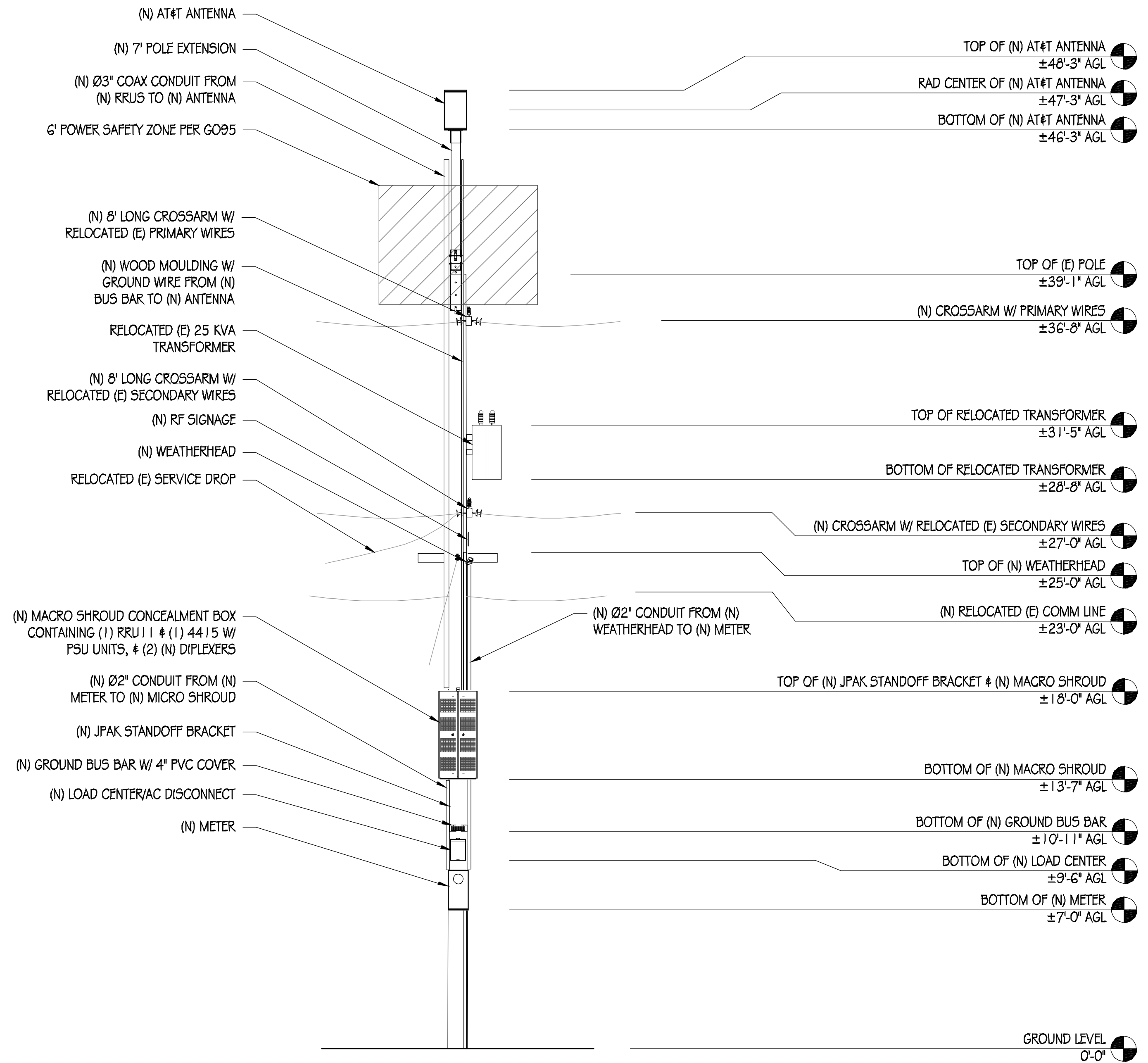
SHEET TITLE:
ELEVATIONS
SHEET NUMBER:
A-3

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING WEST ELEVATION

1/4" = 1'-0"



NEW WEST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

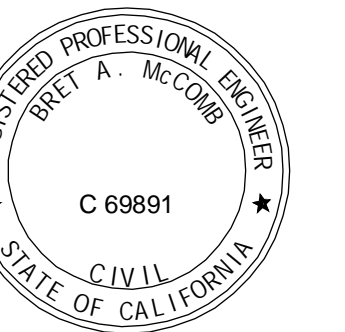


36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.

Phone: (530) 823-6546 www.pdhd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THIS DRAWING AND SPECIFICATIONS ARE THE PROPERTY OF PRECISION DESIGN AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: K.F. / T.J.

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 07/25/19

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

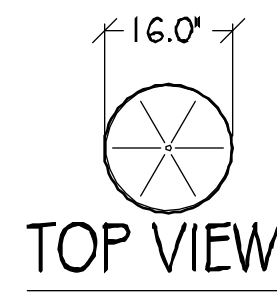
A-4

POLE-TOP EXTENSION NOTES:

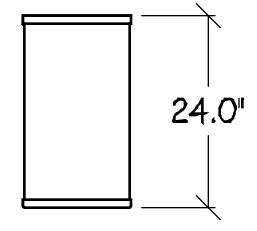
1. THIS UNIT MEETS GENERAL ORDER (G.O.) 95 REQUIREMENTS FOR STRENGTH IN CLASS 6 POLES AND THEREFORE MAY BE USED TO SUPPORT EQUIPMENT ON THESE CLASSES OF POLES. IT MAY BE USED ON LARGER CLASS POLES, BUT MAY NOT BE USED TO SUPPORT EQUIPMENT ON THEM.
2. THE UNIT MAY BE GUYED.
3. THE BRACKET IS MADE TO FIT POLES WITH DIAMETERS OF 8"-11". THEREFORE, DEPENDING UPON THE ACTUAL POLE-TOP DIAMETER, TO FIT POLES OF CLASS 3 AND SMALLER, A BRACKET ADAPTER MAY BE REQUIRED.
4. UNITS ARE SUPPLIED WITH THE WOOD BAYONET ASSEMBLED.
5. A POLE STEP KIT IS REQUIRED.
6. ATTACH THE BRACKET ASSEMBLY ACROSS THE LINE DIRECTION WITH THE CROSS ARM.
7. ALL DETAILS SHOWN ON THIS PAGE ARE FOR REFERENCE ONLY. THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEMS ARE PER UTILITY COMPANY STANDARDS AND ARE SUBJECT TO CHANGE AT THEIR DISCRETION. BOTH THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEM SHALL BE INSTALLED BY THE UTILITY COMPANY.

KMW FX-OM2L10H2-06T

WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø 16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



TOP VIEW

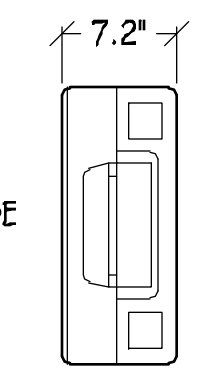


FRONT VIEW

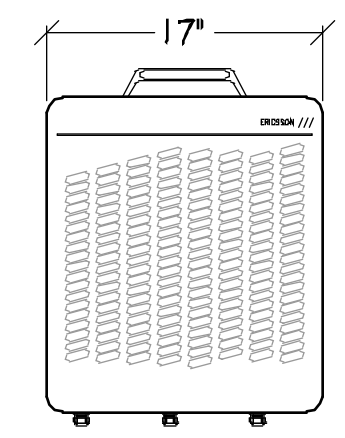
1 ANTENNA
1/2"=1"

ERICSSON RRUS-11

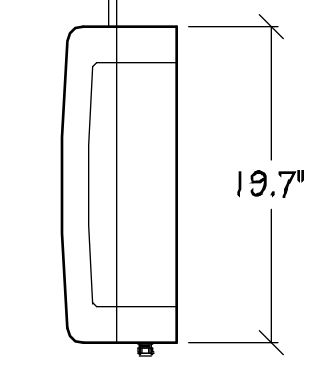
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

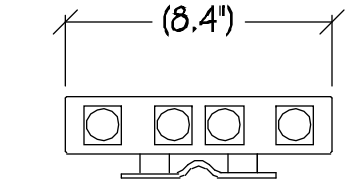


SIDE VIEW

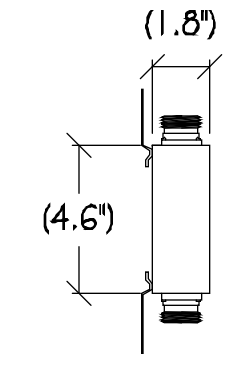
2 RRUS-11 DETAIL
1"=1"

**COMMSCOPE
CBC1923T-4310/
E11F13P06**

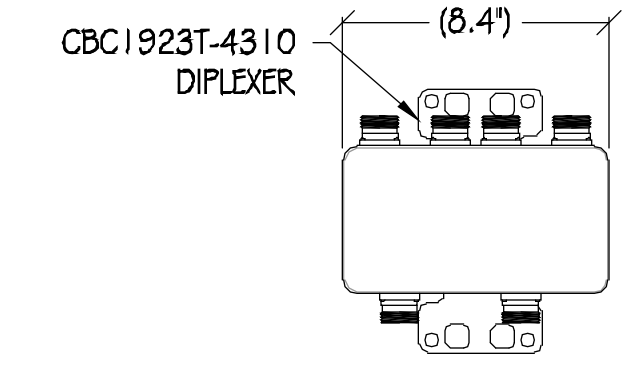
COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW



SIDE VIEW

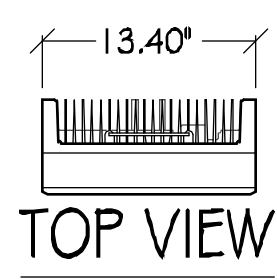


FRONT VIEW

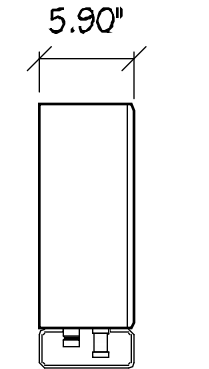
3 DIPLEXER DETAIL
1"=6"

ERICSSON RRUS-4415

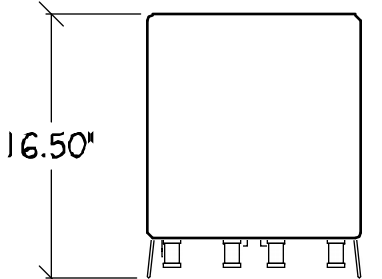
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

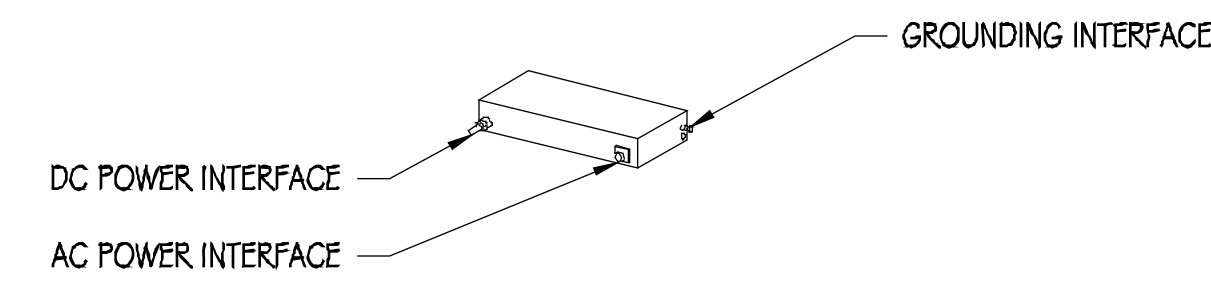


FRONT VIEW

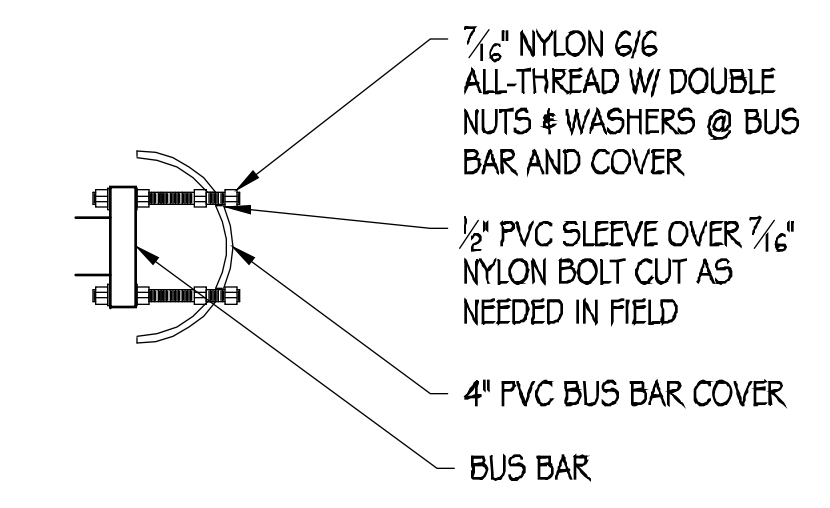
5 RRUS-4415 DETAIL
1"=1"

ERICSSON PSU AC 08

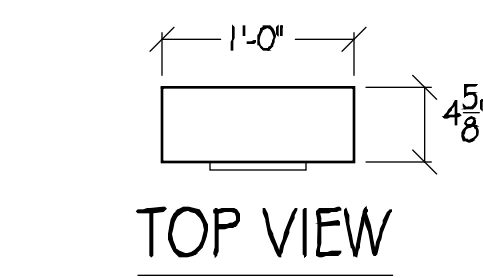
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



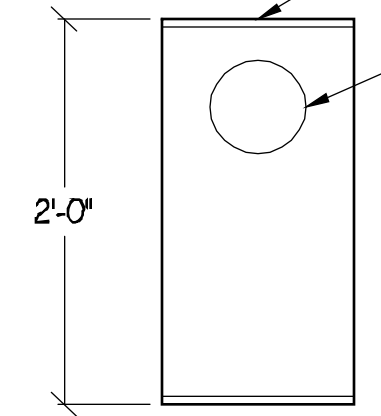
6 AC POWER MODULE
NTS



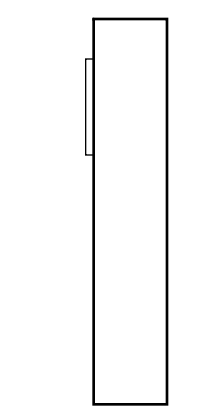
7 BUS BAR COVER
6"=1"



TOP VIEW

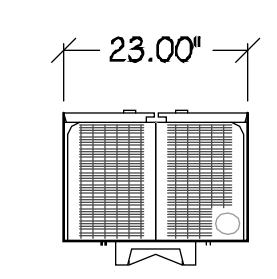


FRONT VIEW

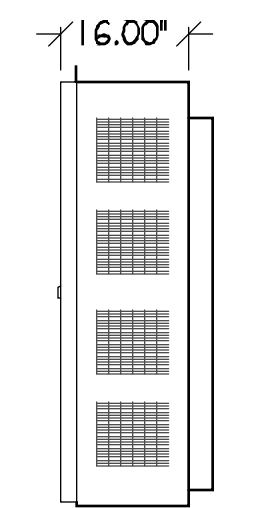


SIDE VIEW

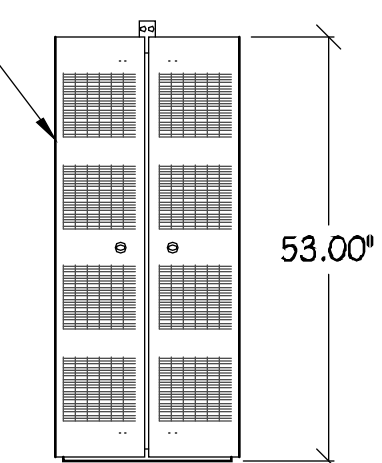
4 METER DETAIL
1"=1"



TOP VIEW

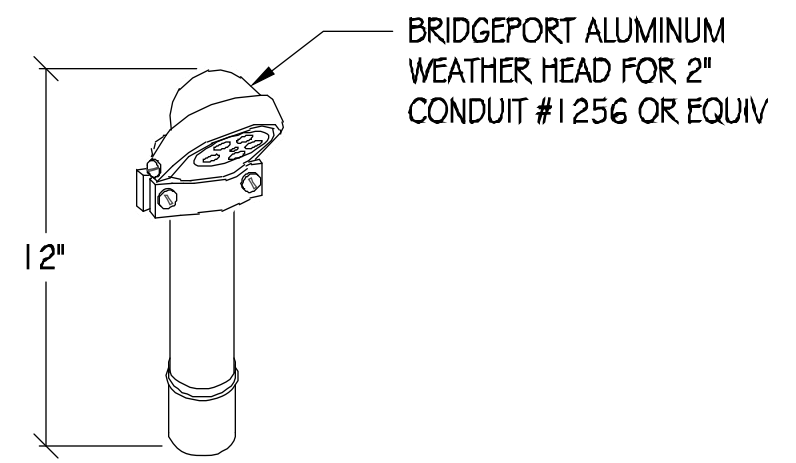


SIDE VIEW



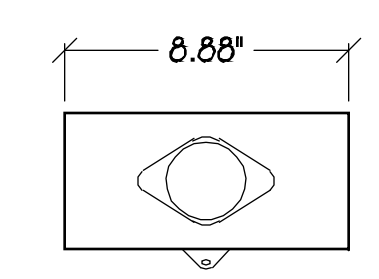
FRONT VIEW

8 MICRO SHROUD CONCEALMENT
1/2"=1"

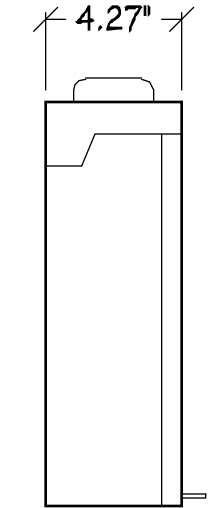


9 WEATHER HEAD
NTS

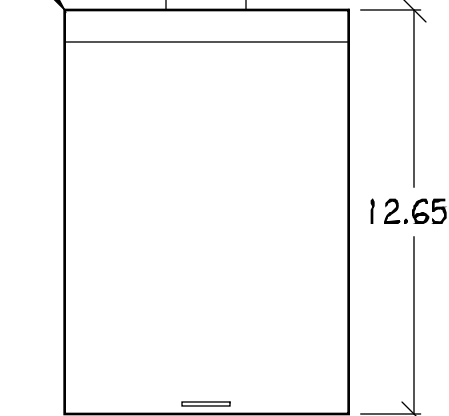
SCHNEIDER ELECTRIC
Q0612L100RB



TOP VIEW

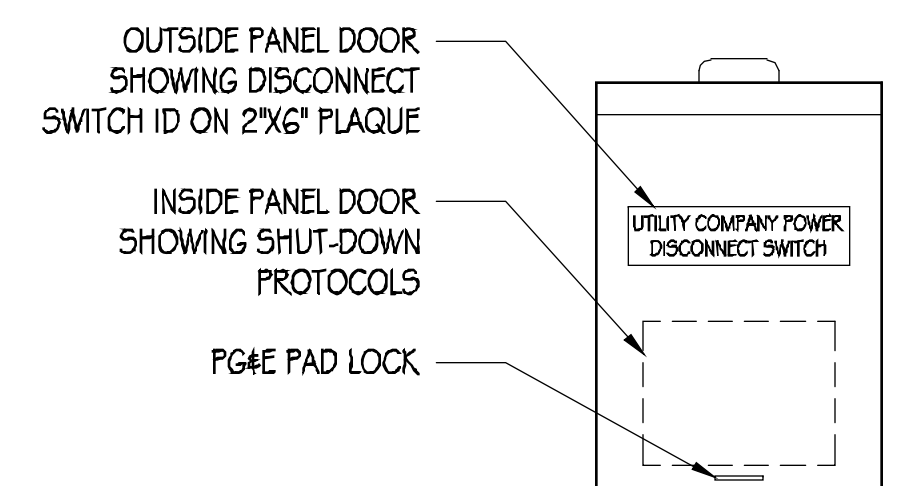


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT
1"=6"



11 DISCONNECT SIGNAGE
3"=1"

SHUTDOWN DISCONNECT

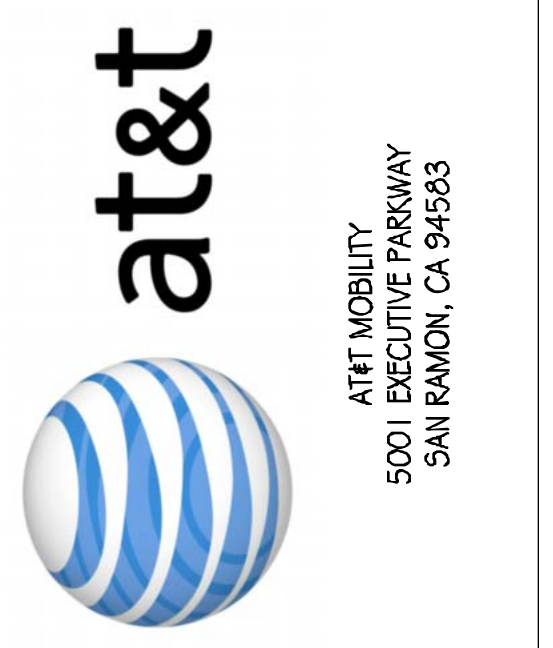
NORMAL SHUT-DOWN PROTOCOLS

1. CALL 800-638-2822 NOC 24HRS PRIOR TO SCHEDULE A SHUT-DOWN DAY AND TIME.
2. GIVE NOC THE NODE NUMBER.
3. ON SCHEDULE DAY OF SHUT-DOWN, PULL THE DISCONNECT HANDLE TO THE "OFF" POSITION.
4. CALL NOC WHEN WORK IS COMPLETED.

EMERGENCY SHUT-DOWN PROTOCOLS

1. CALL 800-638-2822 NOC.
2. GIVE NOC THE NODE NUMBER.
3. PULL THE DISCONNECT HANDLE TO THE "OFF" POSITION.
4. CALL NOC WHEN THE WORK IS COMPLETED.

SHUT-DOWN PROTOCOL ON 9\"/>



PRECISION DESIGN & Drafting, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11768 Alwood Rd, Suite 20 Auburn, CA 95603



CRAN_RSFR_LOSAO_07
 98 ELEANOR AVE
 LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	07/25/19	CD 100%

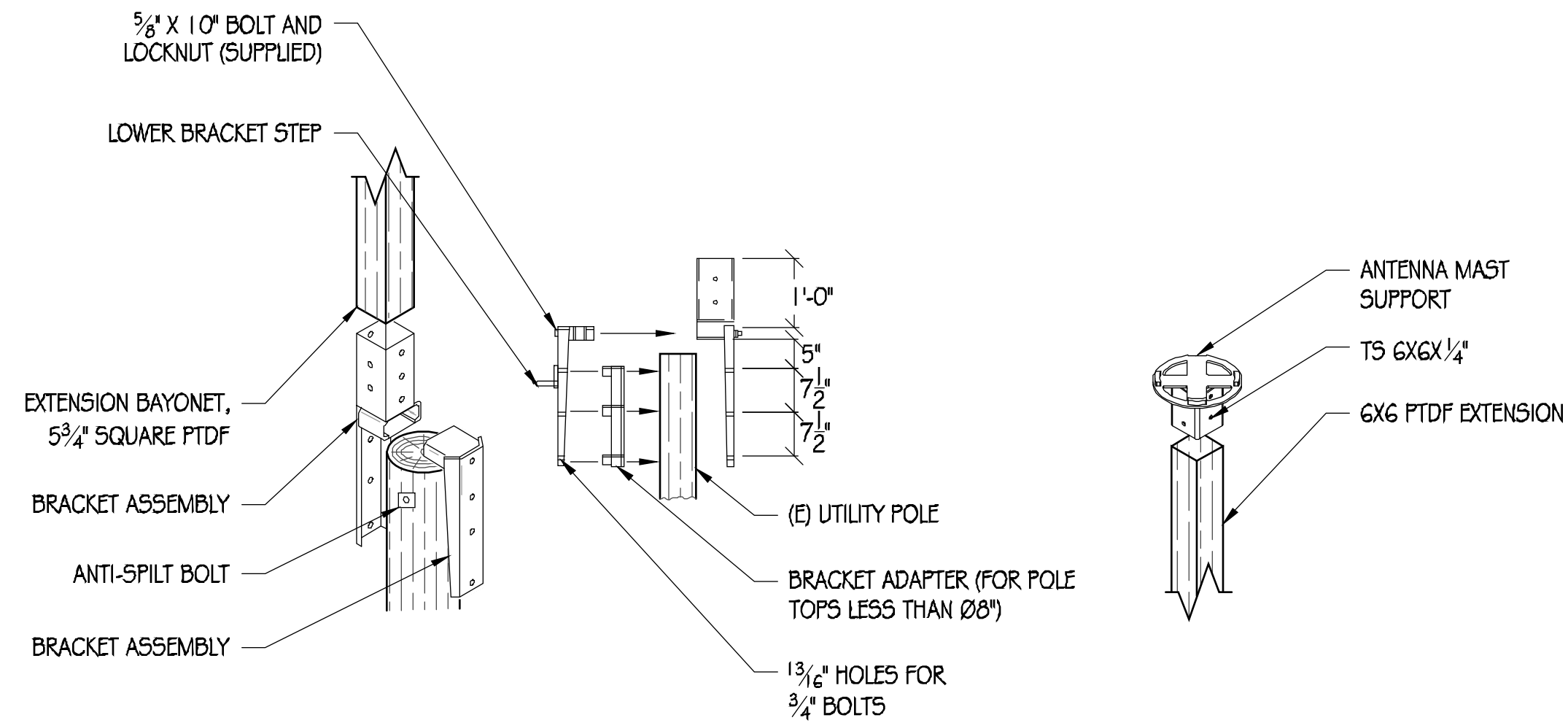
DRAWN BY: K.P. / T.J.
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/25/19

SHEET TITLE:
 DETAILS
 SHEET NUMBER:
A-5

NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT

STRUCTURAL STEEL NOTES:

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) # WT (TEF) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A123 AFTER FABRICATION # PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED # PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.



1 POLE TOP EXTENSION ASSEMBLY
1/2" = 1'

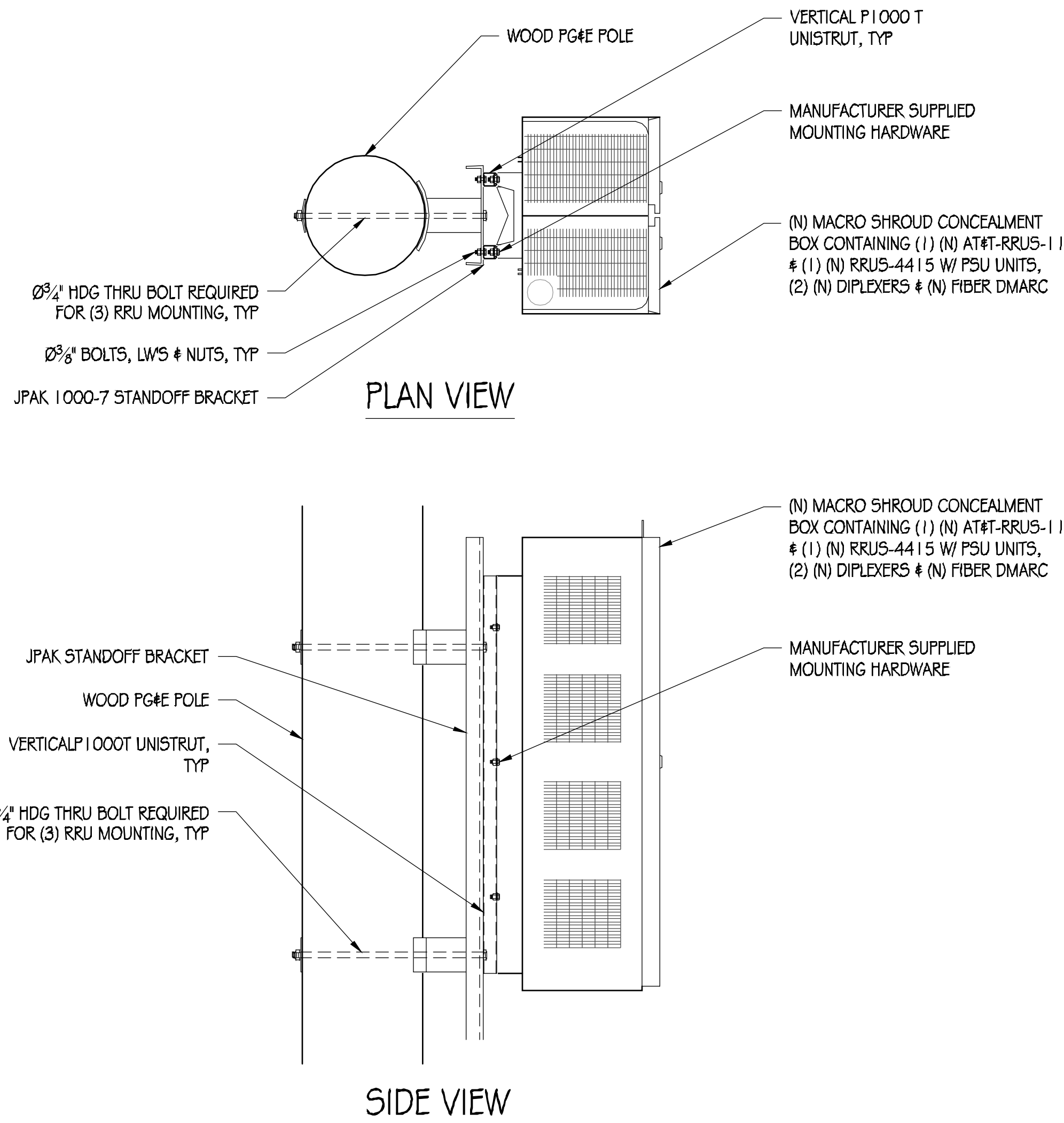
NOTICE

AT&T operates antennas at this structure. Above this point you are entering an area where radio frequency fields may exceed the FCC General Population Exposure Limits. Follow safety guidelines for working in an RF environment. Keep 9' feet away from the fronts of the antennas. Contact AT&T at 800-638-2822 and follow their instructions prior to performing any maintenance or repairs above this point. This is AT&T Site USID _____

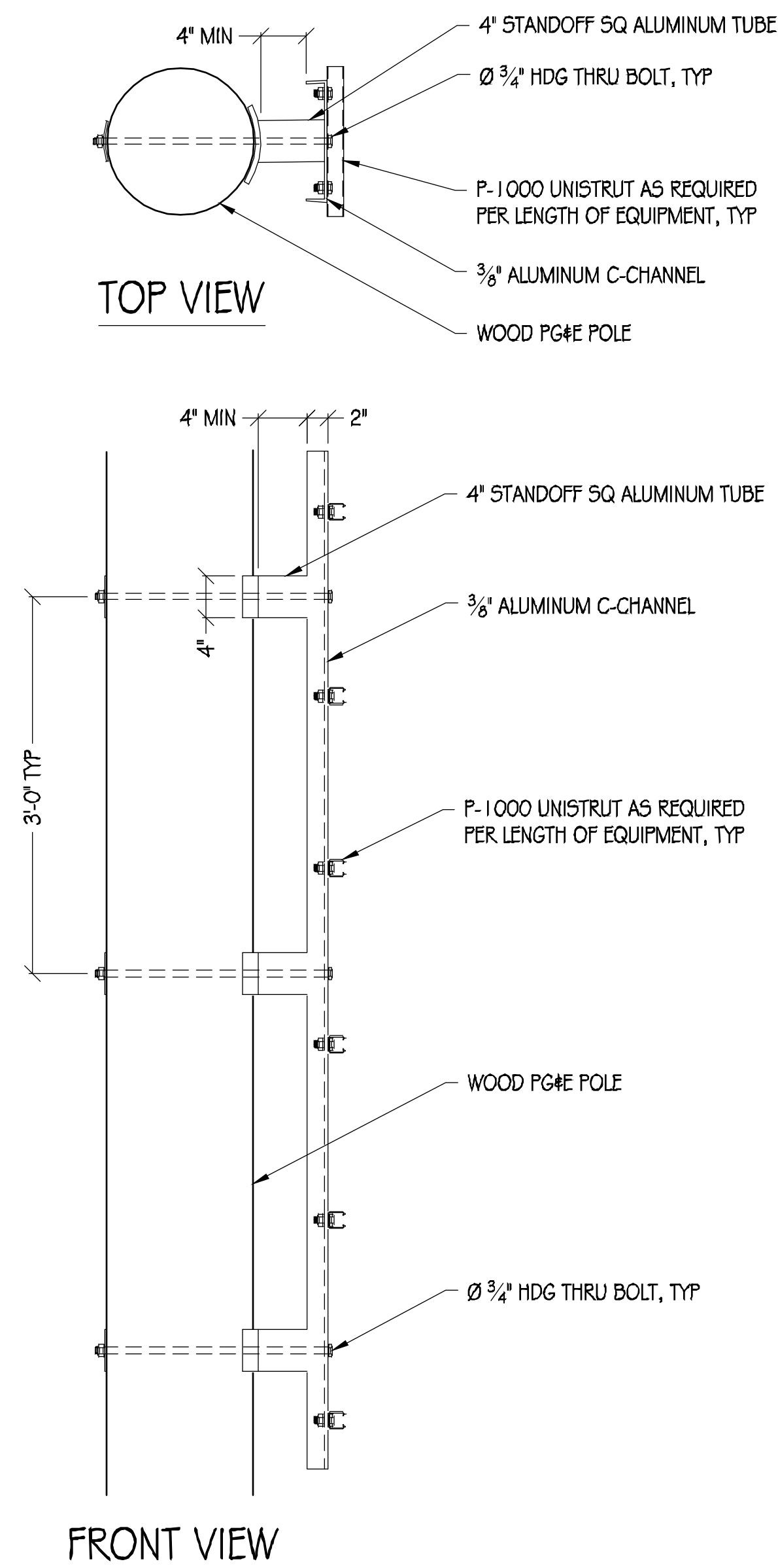
12.25" X 12.25" NOTICE DECAL BLUE DECAL

2 NOTICE SIGNAGE
NTS

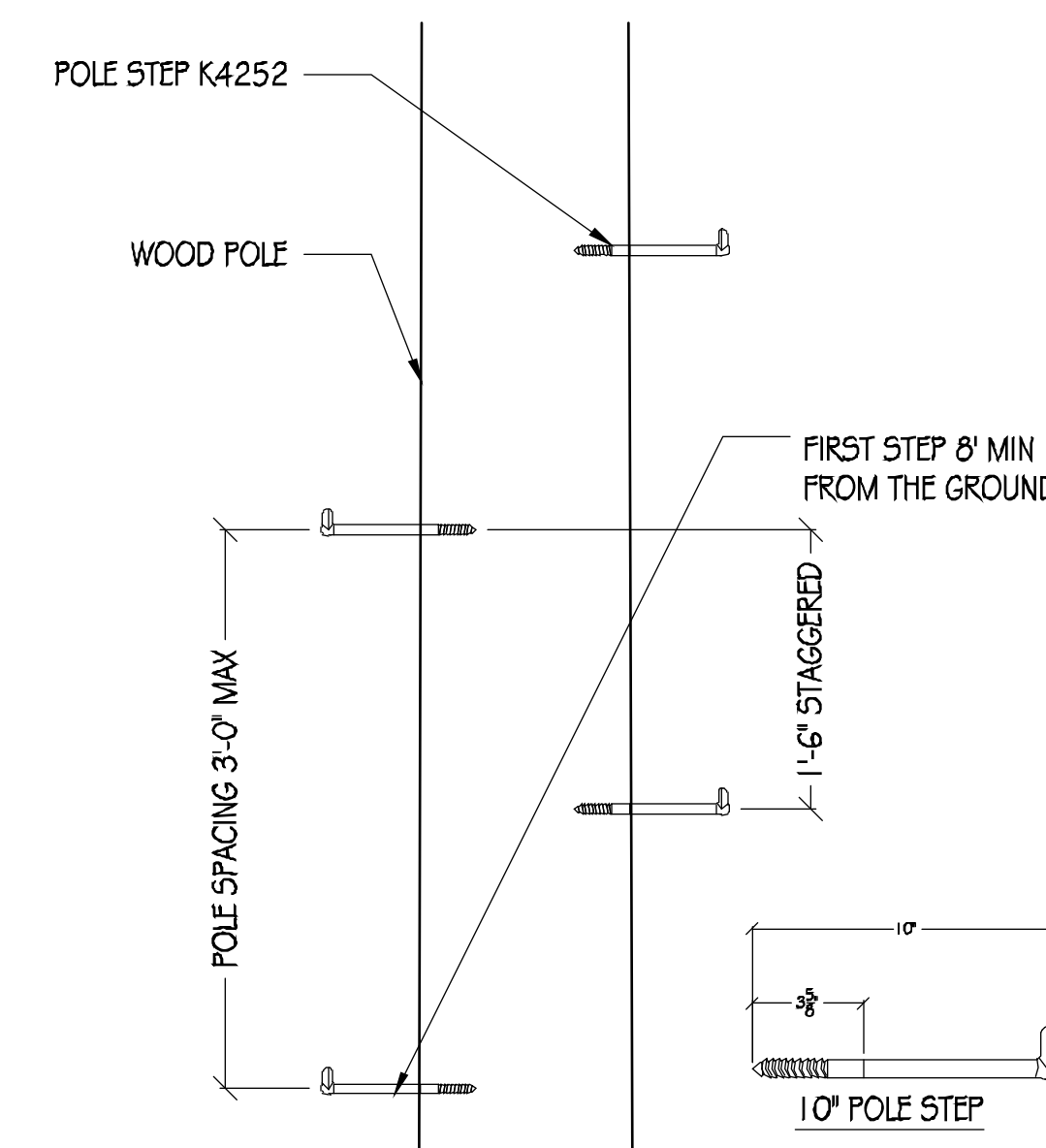
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
 - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA.



3 RRU MOUNTING DETAIL
1" = 1'



4 JPAK STANDOFF DETAIL
1" = 1'



5 POLE STEP
1" = 1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



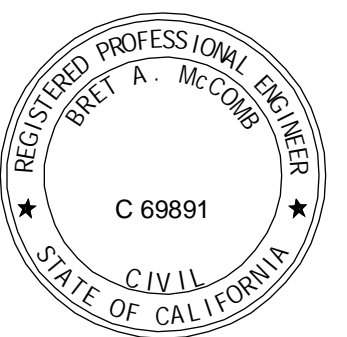
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 DECUITVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdrnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED FOR ANY PROJECT OR IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: K.P. / T.J.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:

DETAILS

SHEET NUMBER

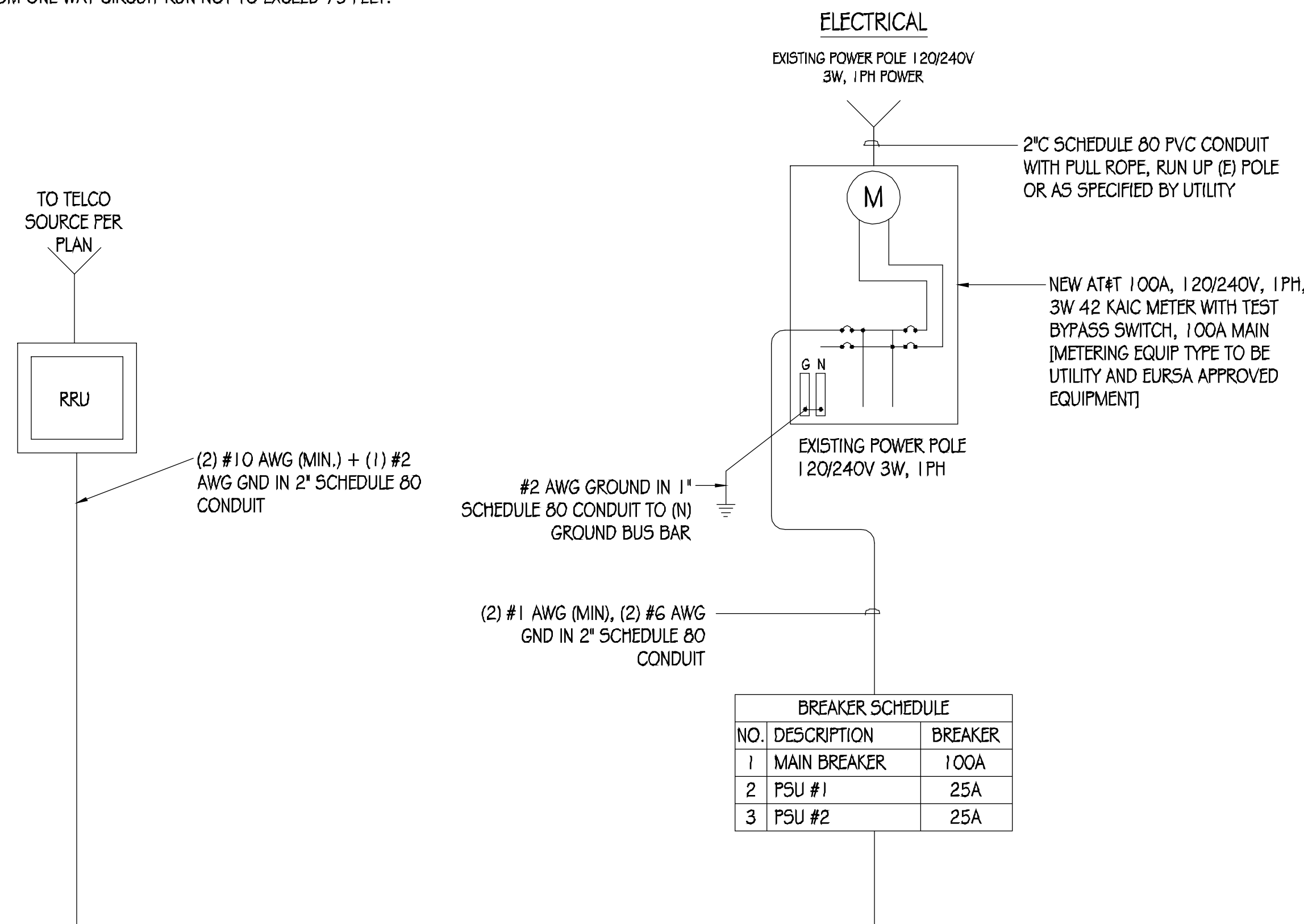
A-6

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 RESTORED PER CITY STANDARD DETAILS.
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, SIDAUL 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.

POWER AND TELCO NOTES:

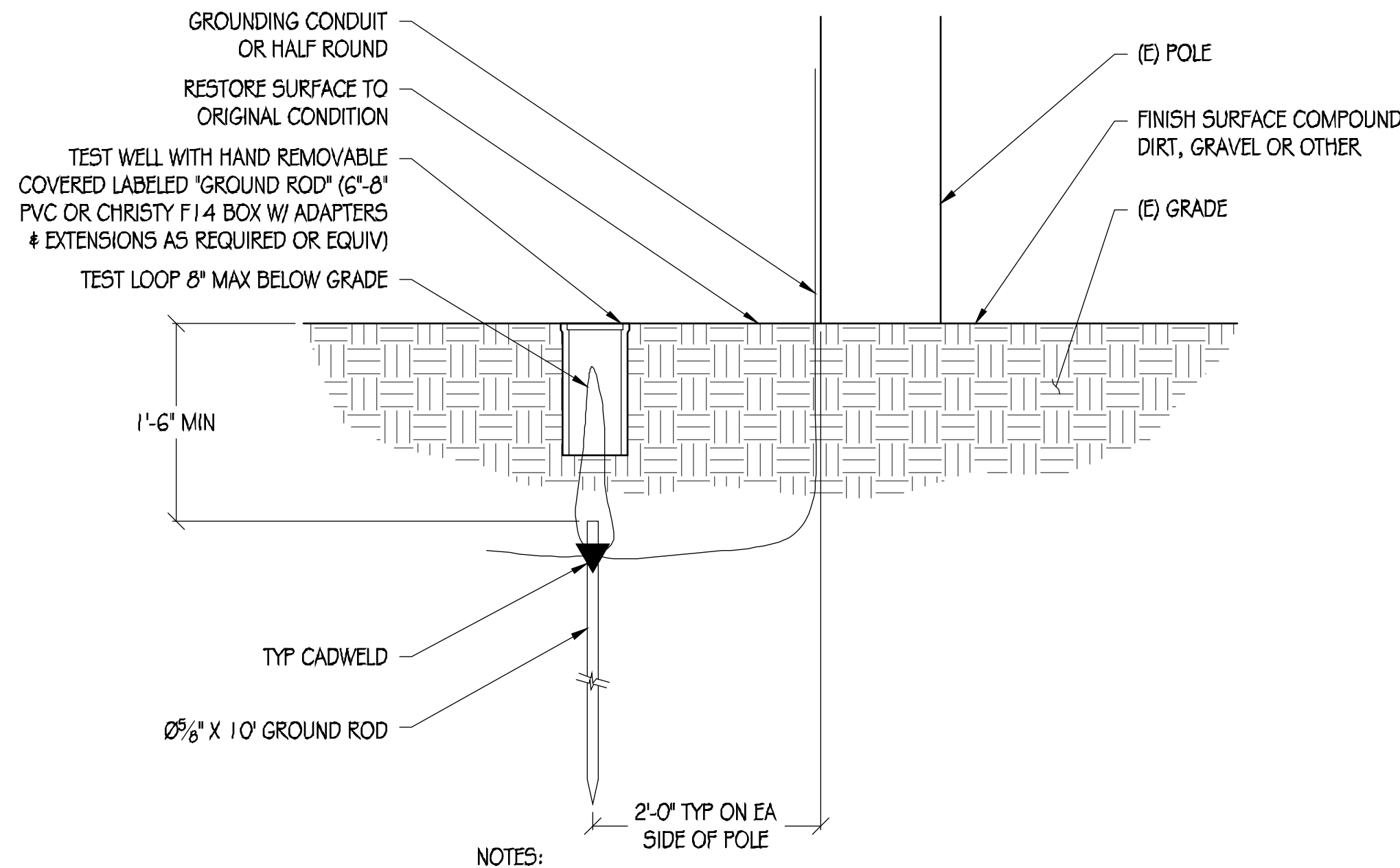
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE 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.
5. CONTRACTOR 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. CONTRACTOR 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.



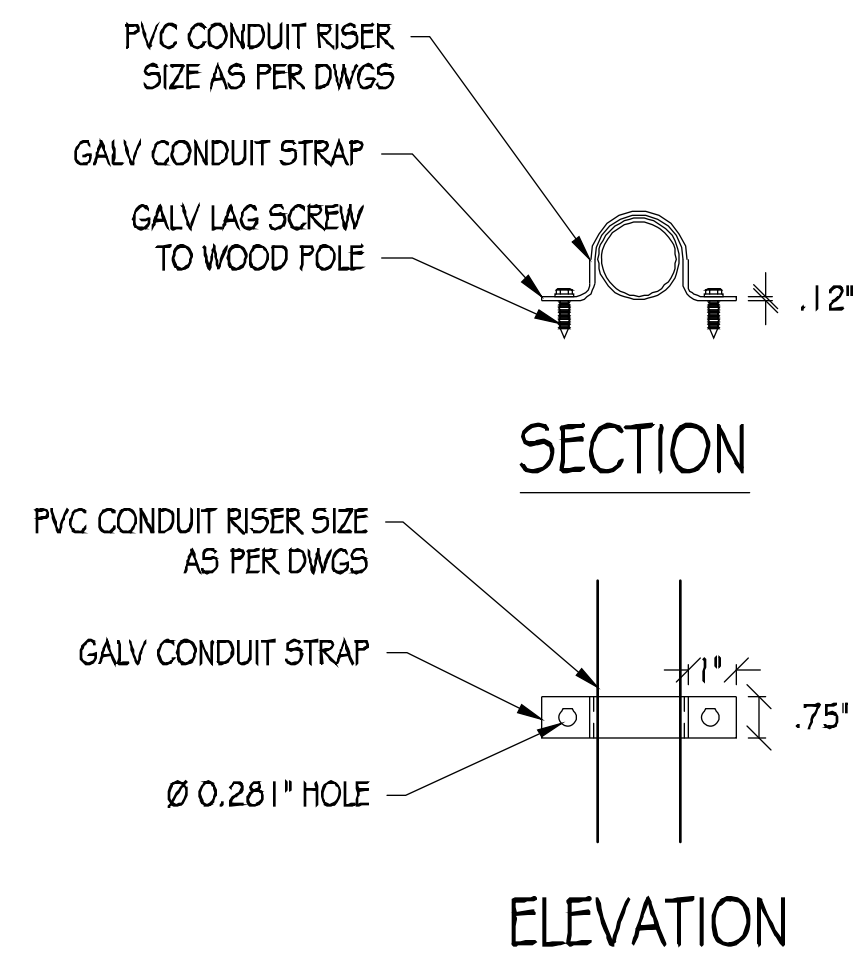
SINGLE-LINE DIAGRAM

LOAD SCHEDULE

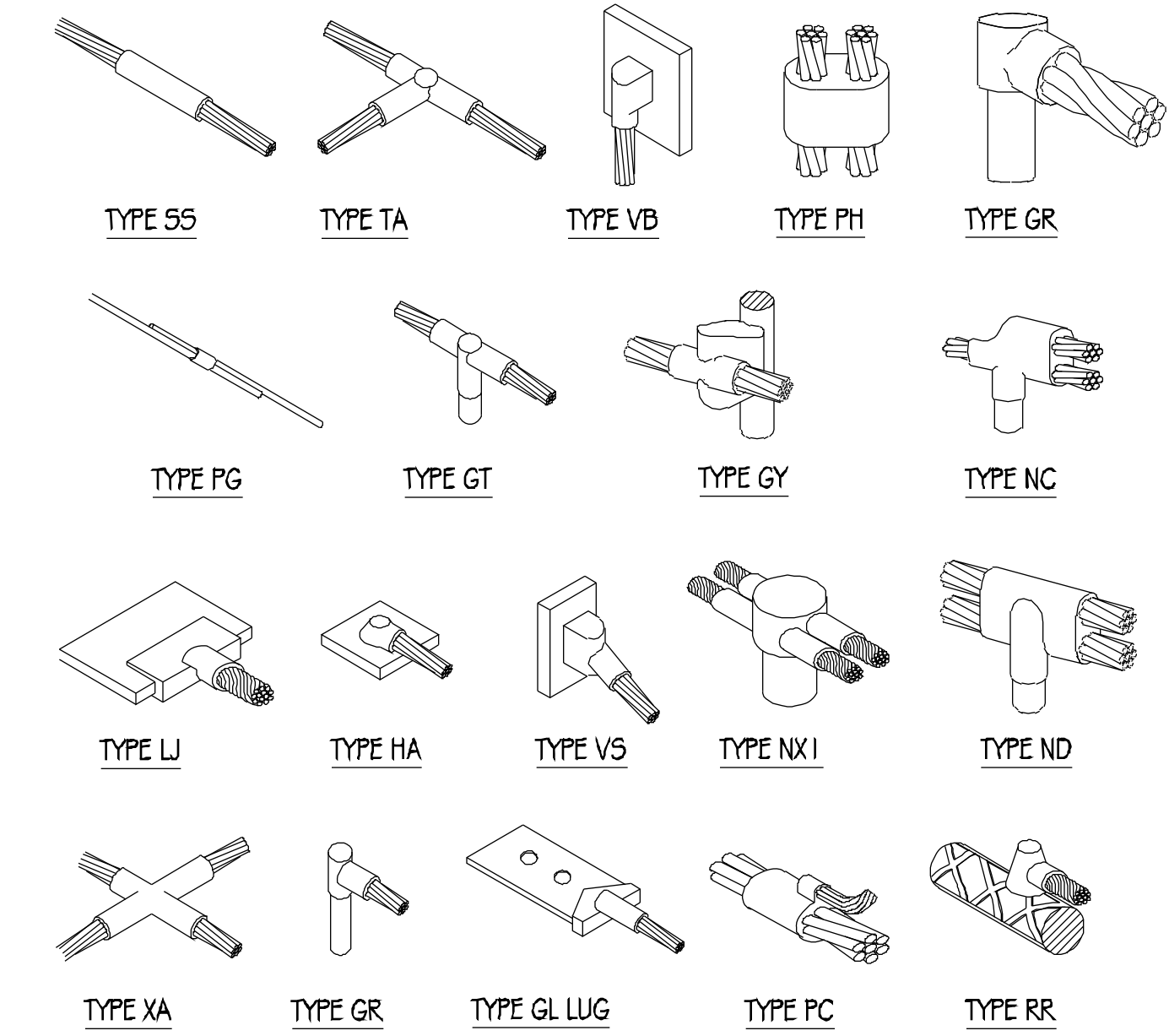
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TX/RX	MAX TRANSMIT POWER	W	HW
ERICSSON RRU5-4415	1	RRU5	16.5" X 13.4" X 5.9"	46 LBS	2T/2R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRU5	19.7" X 17.0" X 7.2"	55 LBS	2T/2R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 8.9" X 4.3"	40 LBS (MAX)	N/A	N/A	N/A	N/A



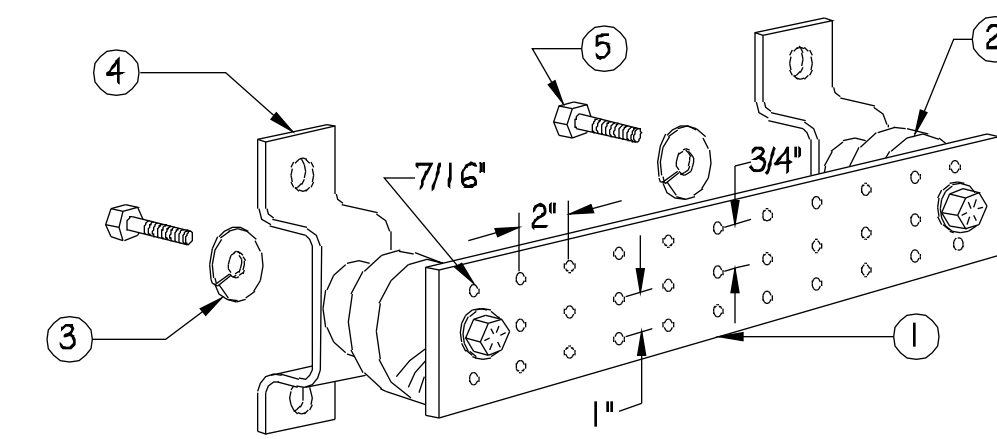
1 POLE GROUNDING DETAIL
NTS



2 CONDUIT RISER DETAIL
NTS



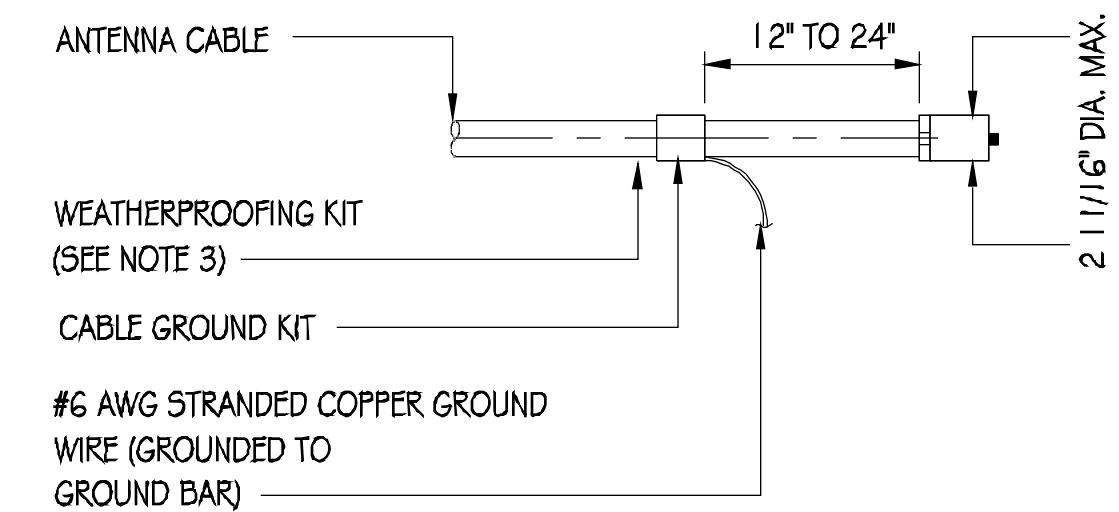
3 EXOTHERMIC WELD DETAILS
NTS



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.

4 GROUND BAR DETAIL
NTS



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.)

5 GND KIT DETAIL
NTS



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

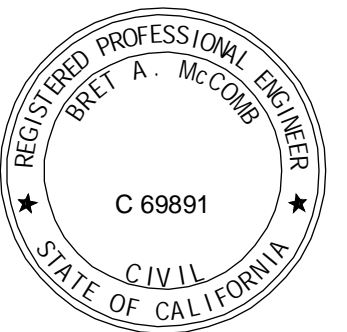


36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. NO REUSE, REPRODUCTION, OR DISTRIBUTION OF ANY PARTS OR PORTIONS OF THESE PLANS OR SPECIFICATIONS SHALL BE MADE BY ANY PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: K.F. / T.J.

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 07/25/19

SHEET TITLE:

SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER

E-1



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN AND DRAFTING, INC. THESE PLANS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THE CLIENT FOR ANY PROJECT OR PROJECTS WITHOUT THE WRITTEN CONSENT OF PRECISION DESIGN AND DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_07

98 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	07/25/19	CD 100%

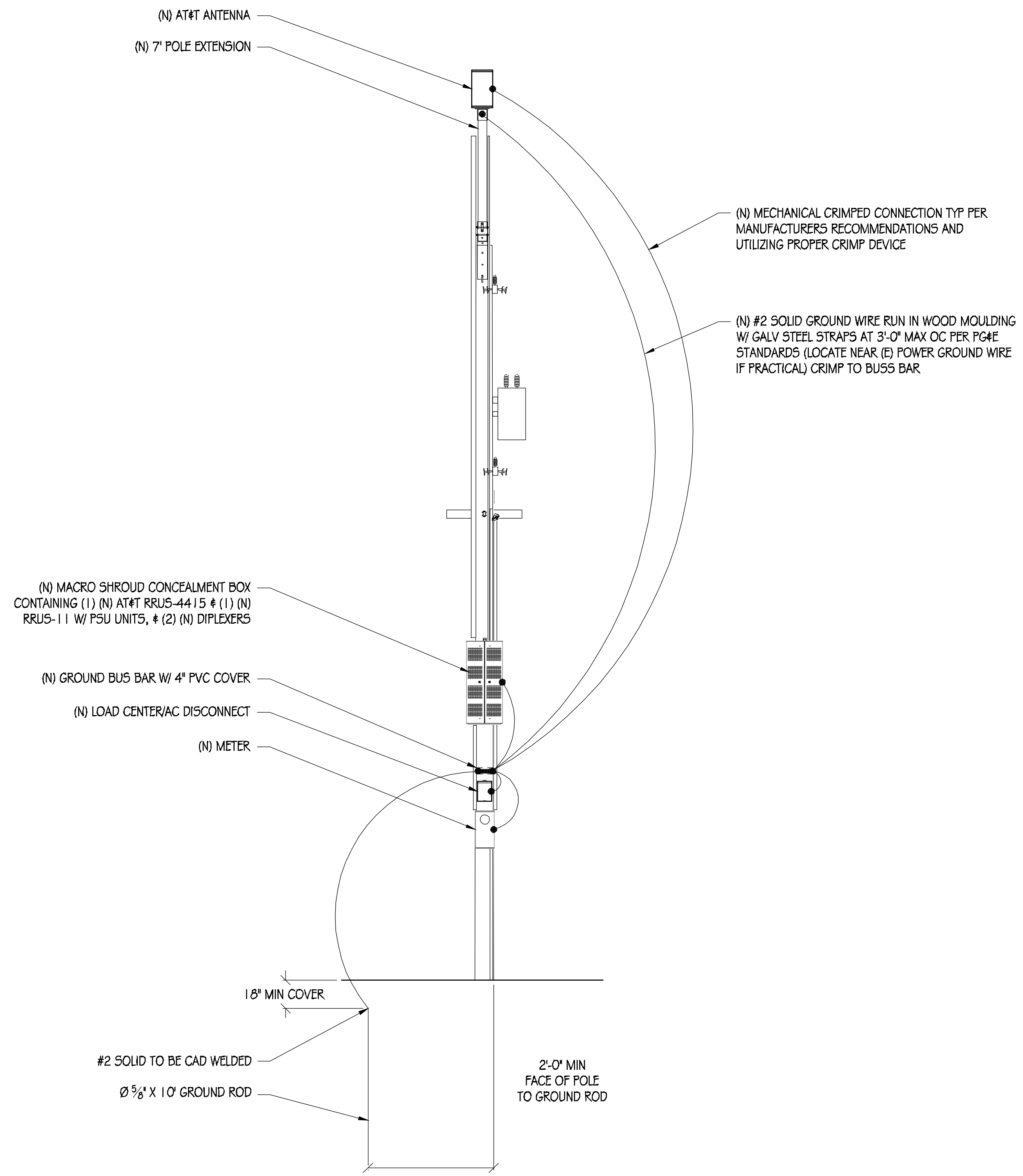
DRAWN BY: K.F. / T.J.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:

GROUNDING DIAGRAMS

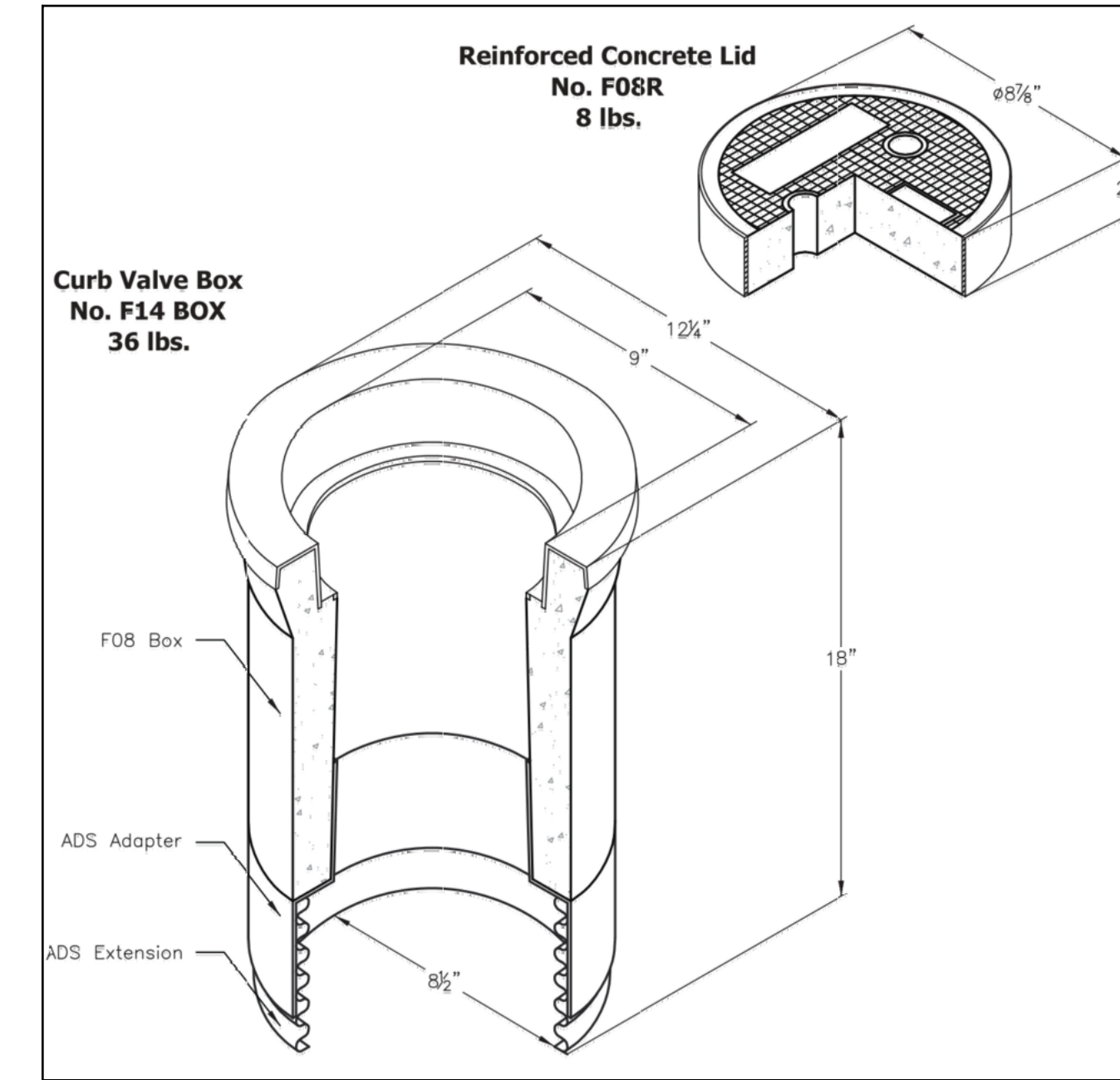
SHEET NUMBER

E-2



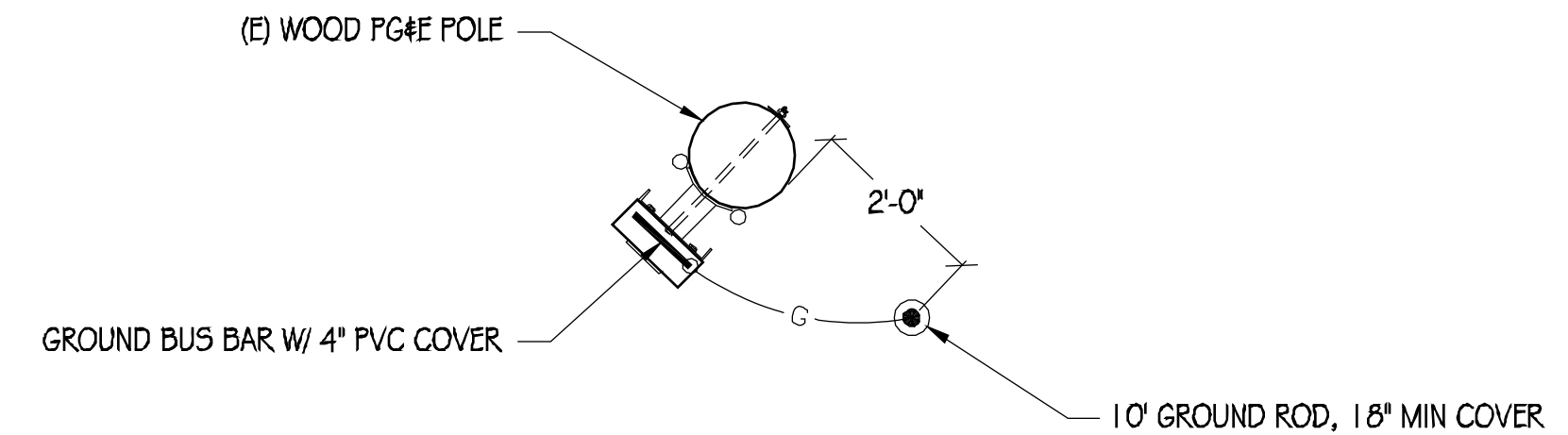
POLE GROUNDING DIAGRAM

NTS



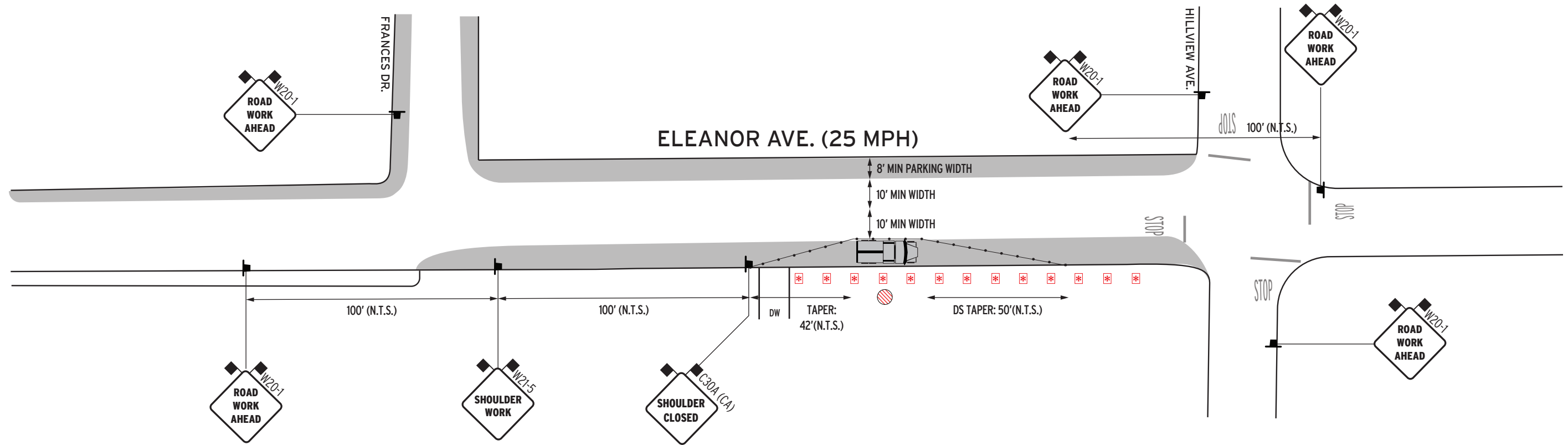
TEST WELL DETAIL

NTS



GROUNDING PLAN

NTS



LEGEND:

- CHANNELIZING DEVICE
- TRAFFIC CONE W/CLIP ON SIGN
- ▲ SIGN
- WORK ZONE
- DIRECTION OF TRAFFIC
- Y TYPE 1 BARRICADE
- Y TYPE 1 BARRICADE W/SIGN
- I TYPE 3 BARRICADE
- I TYPE 3 BARRICADE W/SIGN
- ⚠ CERTIFIED FLAGGER
- ⊗ CRASH BARRELS
- ▨ MESSAGE BOARD (PCMS)
- ⚡ FLASHING ARROWBOARD
- ⊠ TEMP NO PARKING SIGNS
- ★ FLASHING BEACON/BARRICADE LIGHT
- K-RAIL/WATER FILLED BARRIER
- PEDESTRIAN BARRICADE

⊠ *POST TEMPORARY NO PARKING SIGN ON TYPE 1 BARRICADE 72 HRS IN ADVANCED.
 NOTE: Please contact B.A.T.S 72 hrs in advance in case if we are to install "TEMPORARY NO PARKING" signs.

PLAN-1
TEMP TRAFFIC CONTROL PLAN

- NOTES**
- Traffic control shall conform with MUTCD and/or Caltrans Standards section 6 dated 2014.
 - 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.
 - Contractor shall notify local authorities once signs are posted.
 - All advanced warning signs shall be equipped with 2 (18" orange flags)
 - Certified Traffic Control Workers shall have Type II vests, work shoes, and hard hats.

- Temporary no parking signs shall be placed a min of 72 hrs prior of work.
- Driveways shall be monitored and maintained at all times during work hours.
- Distance between sign and work area will be determined on speed limit.
- Roadway shall not be opened until safe for public use. All open trenches must be plated or backfilled prior to public usage.
- All Devices shall be removed when no longer required.

MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
Urban (Low Speed) - 25 mph or less	100 ft	100 ft	100 ft
Urban (Low Speed) + 25 to 40 mph	250 ft	250 ft	250 ft
Urban (High Speed) + 40 mph	350 ft	350 ft	350 ft
Rural	500 ft	500 ft	500 ft
Expressway / Freeway	1,000 ft	1,500 ft	2,640 ft



SCALE:
NOT TO SCALE

DATE REQD: **6-18-19**
 DATE COMPLTD: **6-25-19**

PROJECT LOCATION:
**98 ELEANOR AVE.
 LOS ALTOS**

PO#: **LOSA0_07**
 PAGE#: **1/1**

REQUEST BY:
**LANCE LEWIS
 SURESITE
 216-593-0400
 L.LEWIS@SURE-SITE.COM**

**AFTER HOURS
 EMERGENCY
 510-299-5666**

44800 Industrial Drive Fremont, CA 94538
WWW.BATSTRAFFICSOLUTIONS.COM
B.A.T.S. TRAFFIC SOLUTIONS

Drawn By:
 Lindsay Hunt
 CSLB# 917034
 Office: 510-657-2543
 Fax: 510-657-2544

CITY OF LOS ALTOS
DISTRIBUTED ANTENNA SYSTEMS FOR WIRELESS COMMUNICATIONS
ENCROACHMENT PERMIT REQUIREMENTS

Distributed, repeater, or microcell antenna wireless communication systems and facilities that are regulated by the California Public Utilities Commission as a public utility and determined to be exempt from Los Altos' zoning regulations and use permit application requirements, shall be allowed in the public right-of-way subject to the following Encroachment Permit requirements:

- A. Antenna systems are encouraged along the city's arterial and collector streets. These facilities are allowed on local streets upon verification by a qualified electrical engineer licensed by the state of California representing the FCC licensee that using local streets is necessary to obtain capacity and coverage.
- B. Antenna systems are permitted on joint utility poles at a height not to exceed 10 feet above the height of joint utility pole. Replacement joint utility poles are allowed in accordance with the Municipal Code; however, no net new joint utility poles or monopole antennas are allowed in the public right-of-way.
- C. Antennae shall be designed to be as visually unobtrusive as possible, such as by housing the antenna in a single radome on top of joint utility pole, or by mounting the antenna directly on the joint utility pole in a streamline manner and painted to match the color of the utility pole.
- D. All antenna systems equipment boxes including switches, computers, cooling, back up power, etc., shall be mounted to the utility pole and both the antenna and utility equipment shall be painted to match the color of the existing utility pole.
- E. Only battery back up power systems shall be allowed. No generators shall be allowed.
- F. All new fiber optic and metal cables shall be installed underground unless there are existing overhead cables that can be collocated.
- G. Radiofrequency reports shall be provided for the facility's maximum planned operating power pursuant to the underlying FCC license.
- H. Provide a build-out plan that to the extent known at the time of application identifying by physical address (or if none, by geographic description) all other sites, regardless of whether now constructed, proposed, or anticipated, which are under contract at the time of application, subject to contractual provisions related to confidentiality, that are to be interconnected with this project site. Disclose in technical detail the proposed method of interconnection. Confidential sites may be identified generally.
- I. Disclose by licensee call sign all build-out requirements/obligations which have yet to be met of all wireless providers that the applicant is under contract to build in the City of Los Altos, and the known or estimated date when the remaining build-out requirements will be met.
- J. Identify by name, title, company affiliation, work address, telephone number and extension, and email address the key person or persons most knowledgeable regarding this Project so that the City may contact them with questions regarding the Project:

ENCROACHMENT PERMIT APPLICATION

The applicant is hereby given temporary permission to construct and maintain wireless communication systems at 98 Eleanor Avenue, as shown on the attached drawings. This permission shall cease at such time as the City Engineer determines that said improvements or the applicant's use thereof is detrimental to the City.

The above permission is given subject to the following conditions:

1. The applicant, their heirs, executors, administrators, successors, and assigns, agree to indemnify and hold harmless the City of Los Altos, its officers, and employees against all claims, liabilities, and losses arising out of construction, existence, and future abandonment/destruction of the subject wireless communication systems and all other associated appurtenances. In addition, the applicant shall be responsible for the repair of all damage to roadways, sidewalks, curb and gutter, sewer mains and laterals, traffic signals and conduits, street lights and conduits, irrigation systems including controllers and conduits, or landscaping resulting from the construction/abandonment of the work proposed to be completed under the conditions of this permit, and shall be responsible for repairing or replacing such damaged areas.
2. Construction and destruction/abandonment of the work may be done on weekdays or Saturdays. Weekday work shall be limited to the hours of 8:00 AM and 6:00 PM., except as noted in the lane closure restrictions described in Item 3. Saturday work shall be performed during the hours of 9:00 AM and 6:00 PM.
3. Traffic control and adequate protection of the public in the vicinity of the work site shall be the responsibility of the applicant. Lane closures shall conform to the requirements established in the State of California Traffic Manual, and the State Standard Plans and Specifications.
4. The applicant shall notify the three closest adjacent property owners to the installation and the three closest property owners directly across the street from the installation at least 10 days prior to commencement of any work. In addition, the applicant shall notify the City Communications Department at (650) 948-8223 of street/alley and lane closures at least 24 hours prior to any work. Furthermore, the contractor shall notify the city's Traffic Engineer at least 48 hours in advance of any excavations within 100 feet of any traffic signals.
5. Contractor shall positively locate by hand digging all traffic signal conduit and irrigation controller conduit adjacent to traffic signals. Any damage repair to signal equipment or irrigation controller equipment shall be completed by a qualified electrical contractor immediately at the contractor's expense, and before proceeding with any other work. Traffic signal detector loop replacement shall be replaced within 48 hours of being damaged. The contractor is encouraged to use the City's signal maintenance contractor, Bear Electric, for any traffic signal repair work at the contractor's expense.
6. Asphalt concrete section for trench backfill shall be a thickness equal to the existing pavement, or 4-inches thick minimum, whichever is greater.

7. Completed Certificates of Insurance naming the City of Los Altos, its elective and appointed boards, officers, agents and employees as additional insured must be completed and submitted to the City by the owner, prior to beginning any work in the public right of way. Insurance shall remain in force during the entire time that the public right-of-way facilities are in use and shall provide the above certificate to the City on an annual basis.
8. The applicant shall comply with the National Pollutant Discharge Elimination System Permit in effect at the time of the application, and shall continue to comply with the Permit as amended by the State Water Board from time to time.
9. The applicant understands that the City continues to pursue future utility undergrounding. In the event a pole or poles used by the applicant are selected for undergrounding or relocation of mounted utilities, the applicant will be required to remove all equipment placed on the pole at his/her expense. The applicant agrees that the City is not obligated to provide alternate space for applicant's use should removal of a facility be directed to accomplish utility undergrounding.
10. The applicant shall maintain the distributed antenna system in good repair at the discretion of the City Engineer.
11. The applicant shall remove the entire distributed antenna system structures within 90 days when such system is abandoned.

I hereby agree to the terms of this Encroachment Permit:

Laura Meiners, Site Dev Agent
Name/Title

Sure Site Consulting
Company

Laura Meiners
Signature

7-30-19
Date

CERTIFIED NOTIFICATION LIST AFFIDAVIT

**CITY OF LOS ALTOS
STATE OF CALIFORNIA
COUNTY OF SANTA CLARA**

I, Robert Castro, hereby certify that the attached list contains the names and addresses of all persons to whom all property is assessed as they appear on the latest available assessment roll of the County within the area described on the attached notice and for a distance of two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, further certify that the attached list of occupants reflect all residential addresses within two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, certify under penalty of perjury that the foregoing is true and correct.

Robert Castro

Signature

June 21, 2019

Date the notices were mailed out

Location:

Public right of way near 97 Eleanor Avenue

37.3800500, -122.1097500

CRAN_RSFR_LOSA0_07

1 170-26-011
FRED S ROSENZWEIG
225 FRANCES DR
LOS ALTOS CA 94022

2 170-26-012
TRAVIS J BOWIE
215 FRANCES DR
LOS ALTOS CA 94022

3 170-26-013
JOHN R & CAROLYN B SEYFARTH
214 FRANCES DR
LOS ALTOS CA 94022

4 170-26-014
VIJAY SRINIVASAN
226 FRANCES DR
LOS ALTOS CA 94022

5 170-26-015
RICHARD & VIRGINIA S STROCK
238 FRANCES DR
LOS ALTOS CA 94022

6 170-26-023
RAJENDRA MODI
20345 SARATOGA-LOS GATOS RD
SARATOGA CA 95070

6 170-26-023
OCCUPANT
239 HILLVIEW AVE
LOS ALTOS CA 94022

7 170-26-024
BRUCE D & GUDRUN RITER
171 MAIN ST #626
LOS ALTOS CA 94022

7 170-26-024
OCCUPANT
225 HILLVIEW AVE
LOS ALTOS CA 94022

8 170-26-025
KARIM S KHADDER
215 HILLVIEW AVE
LOS ALTOS CA 94022

9 170-26-026
NORMAN & WINNIE TANG
212 HILLVIEW AVE
LOS ALTOS CA 94022

10 170-26-027
ARIEL & ZOHARA BARDIN
222 HILLVIEW AVE
LOS ALTOS CA 94022

11 170-41-071
ANNA NASELLO
170 HILLVIEW AVE
LOS ALTOS CA 94022

12 170-41-081
NORANDA LLC
P.O. BOX 1962
LOS ALTOS CA 94023

12 170-41-081
OCCUPANT
180 HILLVIEW AVE
LOS ALTOS CA 94022

13 170-42-001
LEI YUAN
96 ELEANOR AVE
LOS ALTOS CA 94022

14 170-42-003
LOS ALTOS COMMUNITY FOUNDATION
183 HILLVIEW AVE
LOS ALTOS CA 94022

15 170-42-008
TRIVELORE T & LAKSHMI RAMGOPAL
14085 SEVEN ACRES LN
LOS ALTOS HILLS CA 94022

15 170-42-008
OCCUPANT
98 ELEANOR AVE
LOS ALTOS CA 94022

16 170-42-009
NATHANIEL STERLING
4180 OAK HILL AVE
PALO ALTO CA 94306

16 170-42-009
OCCUPANT
191 HILLVIEW AVE
LOS ALTOS CA 94022

17 170-42-025
KIRK A & SABINA MILLET
50 ELEANOR AVE
LOS ALTOS CA 94022

18 170-42-026
PETER A MARTIN
80 ELEANOR AVE
LOS ALTOS CA 94022

19 170-42-029
CITY OF LOS ALTOS
26915 ALEJANDRO DR
LOS ALTOS HILLS CA 94022

19 170-42-029
OCCUPANT
97 HILLVIEW AVE
LOS ALTOS CA 94022

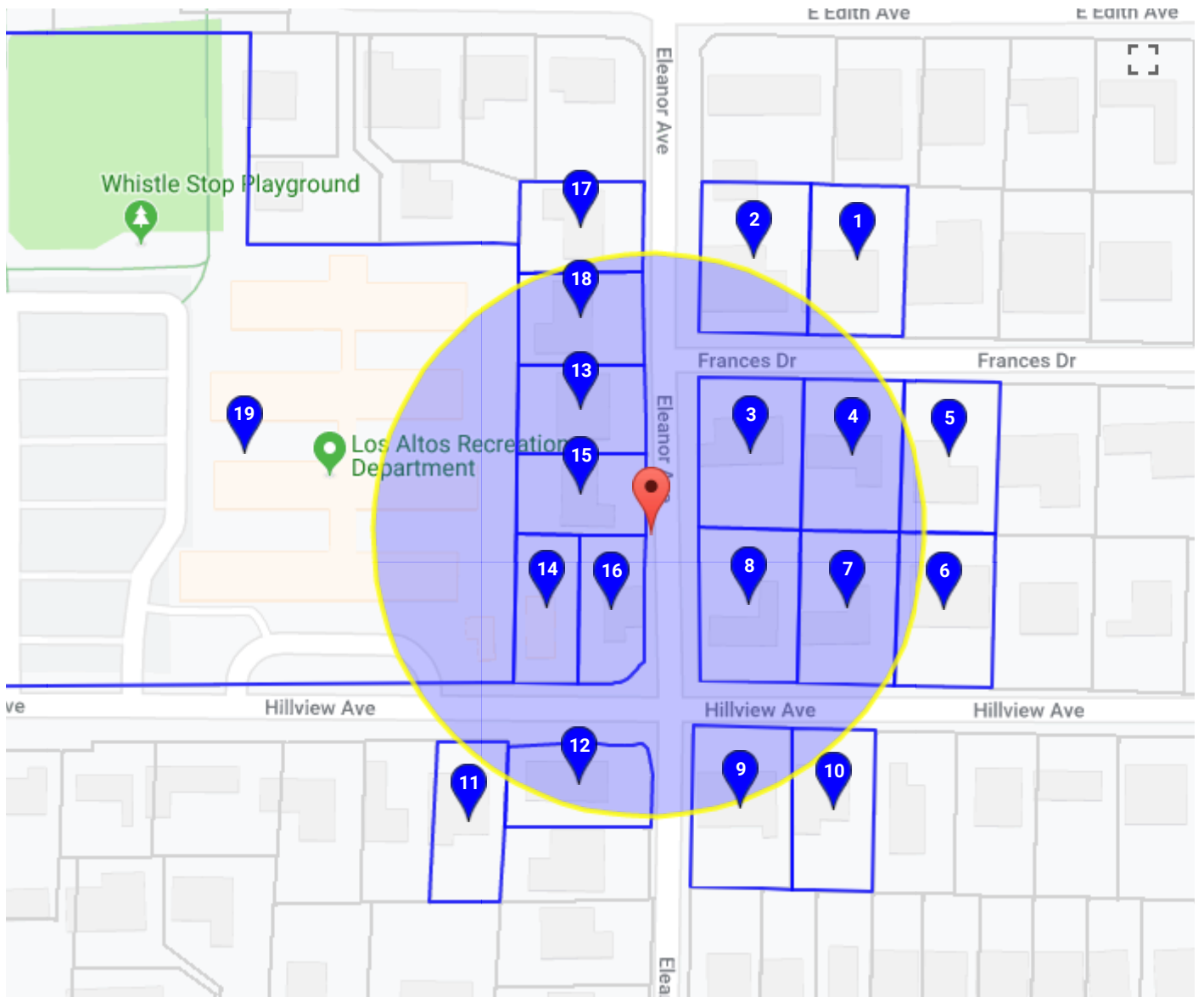
19 170-42-029
OCCUPANT
13 S SAN ANTONIO RD
LOS ALTOS CA 94022

19 170-42-029
OCCUPANT
51 S SAN ANTONIO RD
LOS ALTOS CA 94022

IVAN TOEWS
SURESITE CONSULTING
2033 GATEWAY PL 6TH FLR
SAN JOSE CA 95110

CHRIS ELDRIDGE
ERICSSON
6140 STONERIDGE MALL ROAD SUITE 350
PLEASANTON CA 94588

CHRIS KERR
AT&T MOBILITY
5001 EXECUTIVE PARKWAY 4W750EE
SAN RAMON CA 94568





AT&T is working to improve wireless service in City of Los Altos!

June 10, 2019

Dear Neighbor,

AT&T Mobility proposes to install a state-of-the-art wireless communication small cell node facility on existing wood utility pole located in the City of Los Altos public right-of-way near 97 ELEANOR AVENUE. The equipment to be initially installed includes one (1) antenna, two (2) radio units, and one (1) emergency power shut off. This equipment is designed to increase capacity in high demand areas and should increase wireless connection reliability for AT&T customers. See attached schematic for more information about the placement and size of equipment currently proposed to be installed. All equipment will be painted to match the pole.

This proposed small cell node is part of a greater network that will provide and enhance current cutting edge and future AT&T wireless voice and data service to the surrounding area, improving wireless capabilities and public safety connectivity. Although experiences with wireless services vary based on specific location and usage times, the wireless service proposed by this facility will help meet existing, fluctuating and future demands.

Map of Pole Location

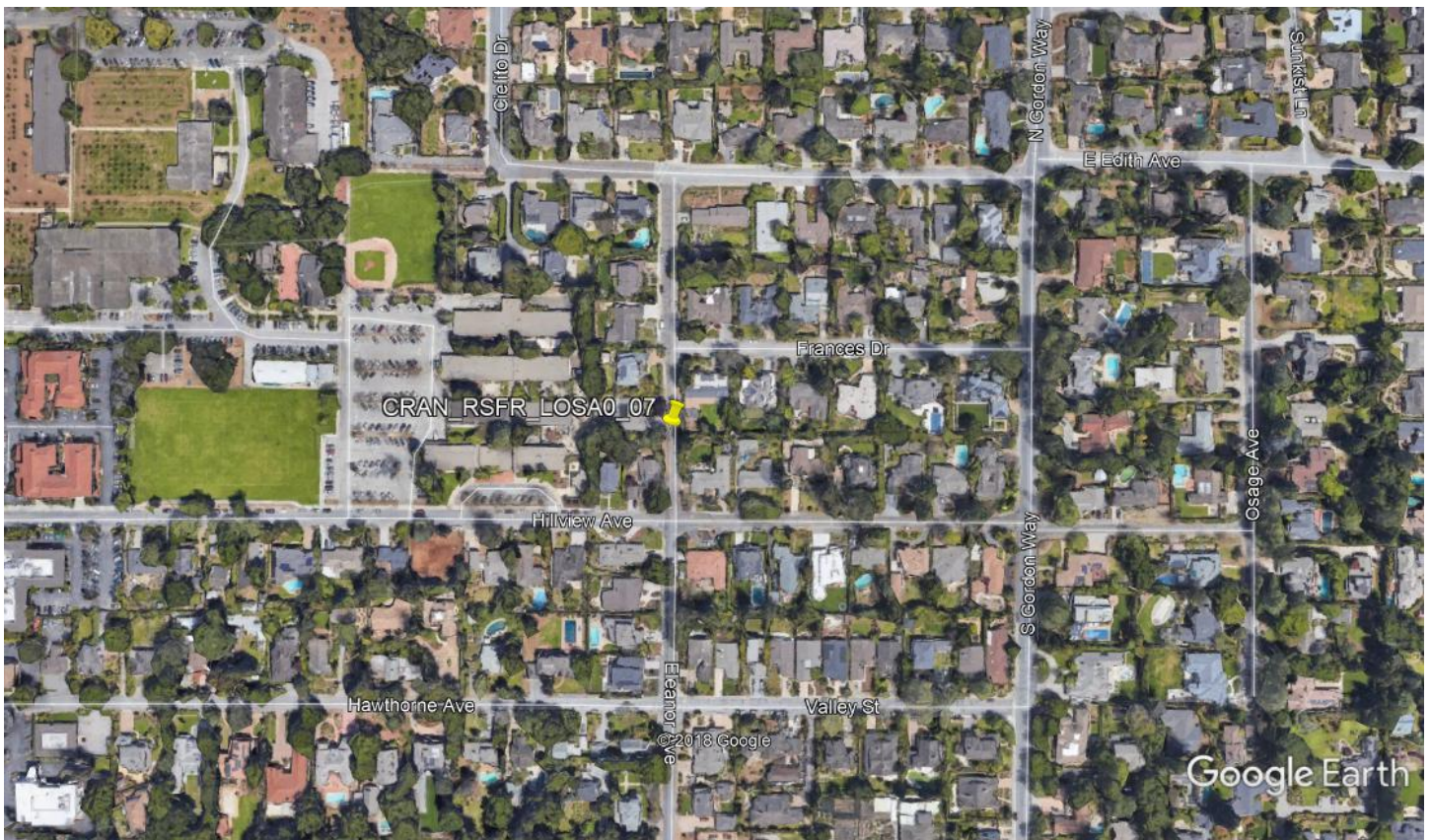




Photo of Existing Pole



Want to learn more?

Please contact AT&T's small cell project voice mailbox at 949-247-8686 or email escsd@sure-site.com should you have any comments or questions about the proposal.

Thank you.

Sincerely,

Angela Kung
AT&T Director - External Affairs



CRAN_RSFR_LOSAO_07

97 ELEANOR AVENUE LOS ALTOS CA 94022



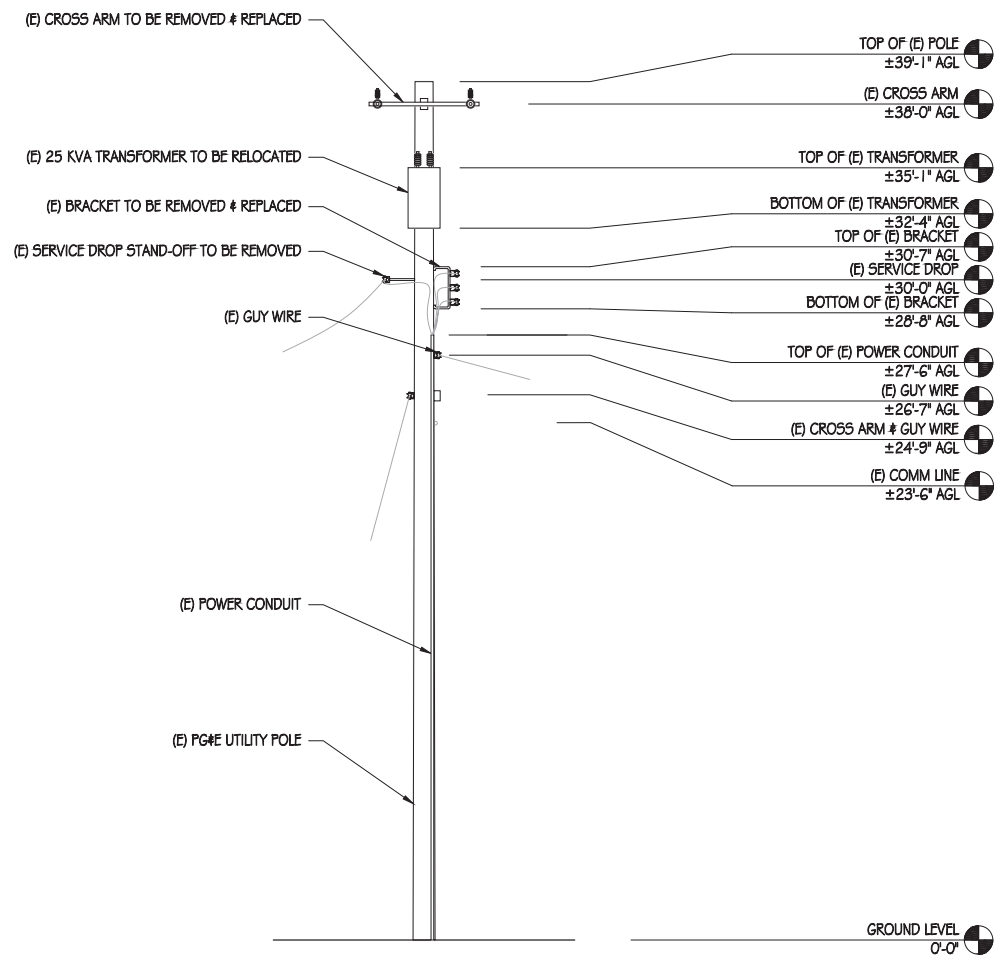
VIEW 1



EXISTING

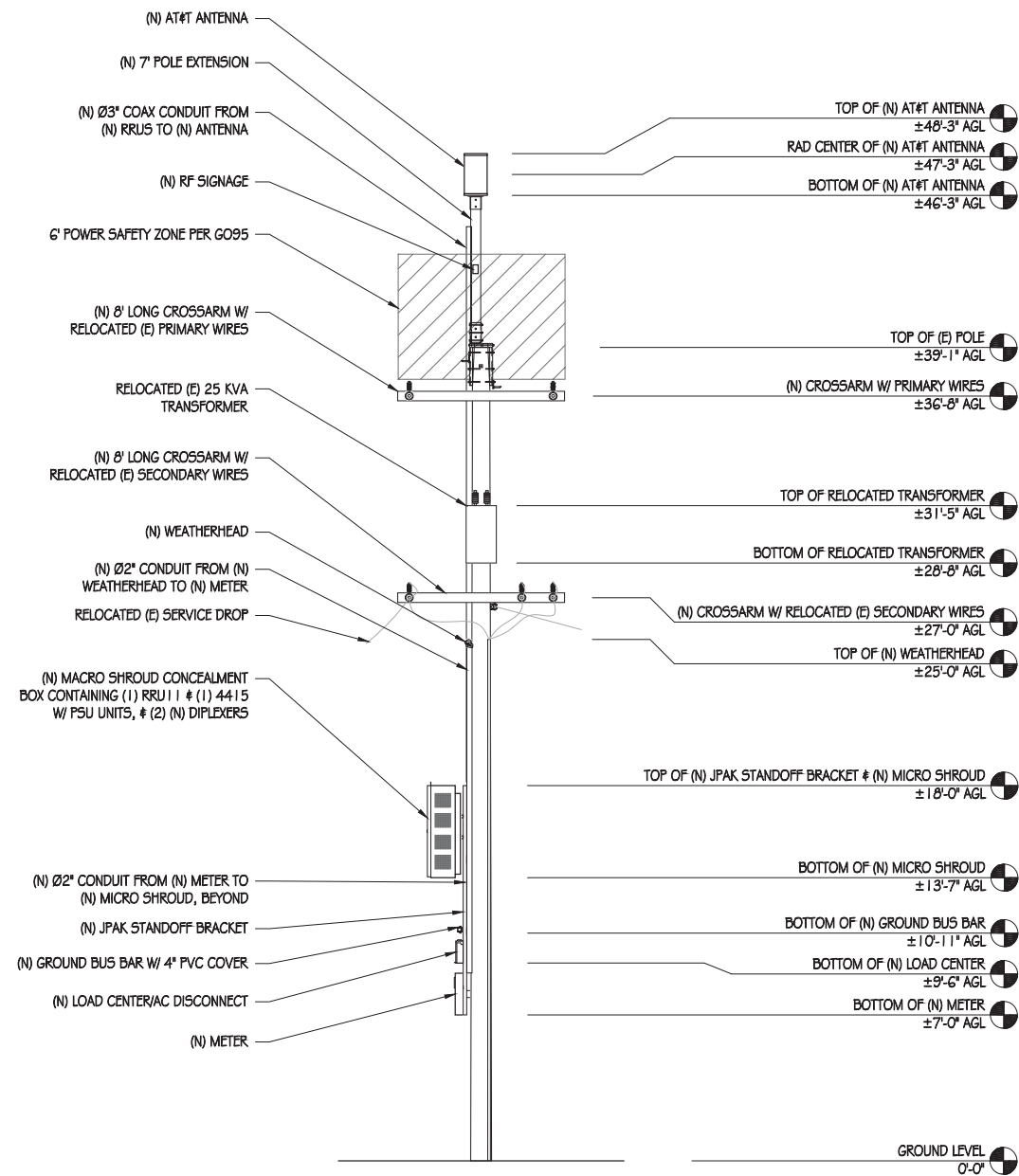


PROPOSED LOOKING SOUTH FROM ELEANOR AVENUE



EXISTING SOUTH ELEVATION

1/4" = 1'-0"



NEW SOUTH ELEVATION

1/4" = 1'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN
NOTE: MAY NEED TO RELOCATED COMM SERVICE DROPS TO CLEAR CLIMBING SPACE



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94553



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (510) 823-6546 www.pdind.com
11708 Alwood Rd., Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE OUR SOLE PROPERTY AND WILL REMAIN THE PROPERTY OF OUR FIRM. THESE PLANS AND SPECIFICATIONS SHALL BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OF THESE PLANS OR SPECIFICATIONS FOR OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER, ARCHITECT, OR OTHER PROFESSIONAL PARTY WITH COMPETENCE IN THE BUSINESS OF ENGINEERING, ARCHITECTURE, OR OTHER PROFESSIONAL SERVICE IS STRICTLY PROHIBITED.



CRAN_RSFR_LOSAO_07

ROW ADJCT TO 97 ELEANOR AVE
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/21/18	CD 90%
	11/01/18	CD 100%

DRAWN BY: K. PETERSON

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 11/01/18

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

A-3

AT&T Mobility Radio Frequency Statement Los Altos CA Small Cell Node 7

AT&T has experienced an unprecedented increase in mobile data use on its network since introduction of the iPhone in 2007. AT&T estimates that since introduction of the of the iPhone in 2007, mobile data usage has increased 470,000% on its network. AT&T forecasts its customers' growing demand for mobile data services to continue. The increased volume of data travels to and from customers' wireless devices and AT&T's wireless infrastructure over limited airwaves — radio frequency spectrum that AT&T licenses from the Federal Communications Commission ("FCC").

Spectrum is a finite resource and there are a limited number of airwaves capable and available for commercial use. Wireless carriers license those airwaves from the FCC. To ensure service quality, AT&T must knit together its spectrum assets to address customers' existing usage and forecasted demand for wireless services, and it must use its limited spectrum in an efficient manner.

AT&T uses high-band (i.e., 2300 MHz, 2100 MHz, and 1900 MHz) and low-band (i.e., 850 MHz and 700 MHz) spectrum to provide wireless service. Each spectrum band has different propagation characteristics and signal quality may vary due to noise or interference based on network characteristics at a given location. To address this dynamic environment, AT&T deploys multiple layers of its licensed spectrum and strives to bring its facilities closer to the customer. To address the existing and forecasted demand and to support 5G speeds in the near future, AT&T plans to deploy small cell facilities within public rights-of-way.

The service coverage gap is caused by inadequate infrastructure in the area. AT&T currently has existing sites in the broader geographical area but as Exhibit 1 illustrates, these existing sites do not provide sufficient high-band, in building LTE service in the gap area. To meet its coverage objectives, AT&T needs to construct a new wireless communications facility. In order to provide high-band LTE service coverage in this portion of the city, AT&T needs to place its small cell node along Eleanor Avenue near Hillview Avenue. Denial of this proposed facility would materially inhibit AT&T's ability to provide and improve wireless services in this portion of the city. The proposed small cell facilities will help close gap in coverage and help address increasing data usage, voice, and other wireless services driven by smart phones and tablet usage. This node is part of an effort to fully deploy 4G LTE technology in the area. Specifically, the proposed facility will close this service gap and provide sufficient high-band 4G LTE, in building coverage for AT&T customers in the affected area. 4G LTE is capable of delivering speeds up to 10 times faster than industry – average 3G speeds. LTE technology also offers lower latency, or the processing time it takes to move data through a network, such as how long it takes to

start downloading a webpage or file once you've sent the request. Lower latency helps to improve the quality of personal wireless services. What's more, LTE uses spectrum more efficiently than other technologies, creating more space to carry data traffic and services and to deliver a better overall network experience.

The proposed node on a pole in the public rights-of-way at 97 Eleanor Avenue is needed to close the high-band LTE service coverage in an area bordered roughly by Galli Drive to the north, Los Altos History Museum to the west, Marvin Avenue to the south and South Gordon Way to the east. This portion of Los Altos is primarily residential neighborhoods with dozens of homes and recreation areas and playing fields.

It is important to understand that service problems can and do occur for customers even in locations where the coverage maps on AT&T's "Coverage Viewer" website appear to indicate that coverage is available. As the legend to the Coverage Viewer maps indicates, these maps display approximate coverage. Actual coverage in an area may differ from the website map graphics, and it may be affected by such things as terrain, weather, network changes, foliage, buildings, construction, high-usage periods, customer equipment, and other factors.

It is also important to note that the signal losses, slow data rates, and other service problems can and do occur for customers even at times when certain other customers in the same vicinity may not experience any problems on AT&T's network. These problems can and do occur even when certain customers' wireless phones indicate coverage bars of signal strength on the handset. The bars of signal strength that individual customers can see on their wireless phones are an imprecise and slow-to-update estimate of service quality. In other words, a customer's wireless phone can show coverage bars of signal strength, but that customer will still, at times, be unable to initiate voice calls, complete calls, or download data reliably and without service interruptions due to service quality issues.

To determine where new equipment needs to be located for the provisioning of reliable service in any area, AT&T's radio frequency engineers rely on far more complex tools and data sources than just signal strength from individual phones. AT&T uses industry standard propagation tools to identify the areas in its network where signal strength is too weak to provide reliable in-building service quality. This information is developed from many sources including terrain and clutter databases that simulate the environment, traffic maps that simulate the density of users in the environment, and propagation models that simulate signal relative to interference in the presence of terrain and clutter variation. AT&T designs and builds its wireless network to ensure customers will receive reliable in-building service quality and

data rates sufficient to stream video and complete calls. In-building service is critical as customers increasingly use their mobile phones as their primary communication devices (more than 72% of American households rely primarily or exclusively on wireless telecommunications) and rely on their mobile phones to do more (E911, video streaming, GPS, web access, text, etc.). In fact, the FCC estimates that 70% of 911 calls are placed by people using wireless phones. And with AT&T's selection by FirstNet as the wireless service provider to build and manage the nationwide first responder wireless network, each new facility will help strengthen first responder communications.

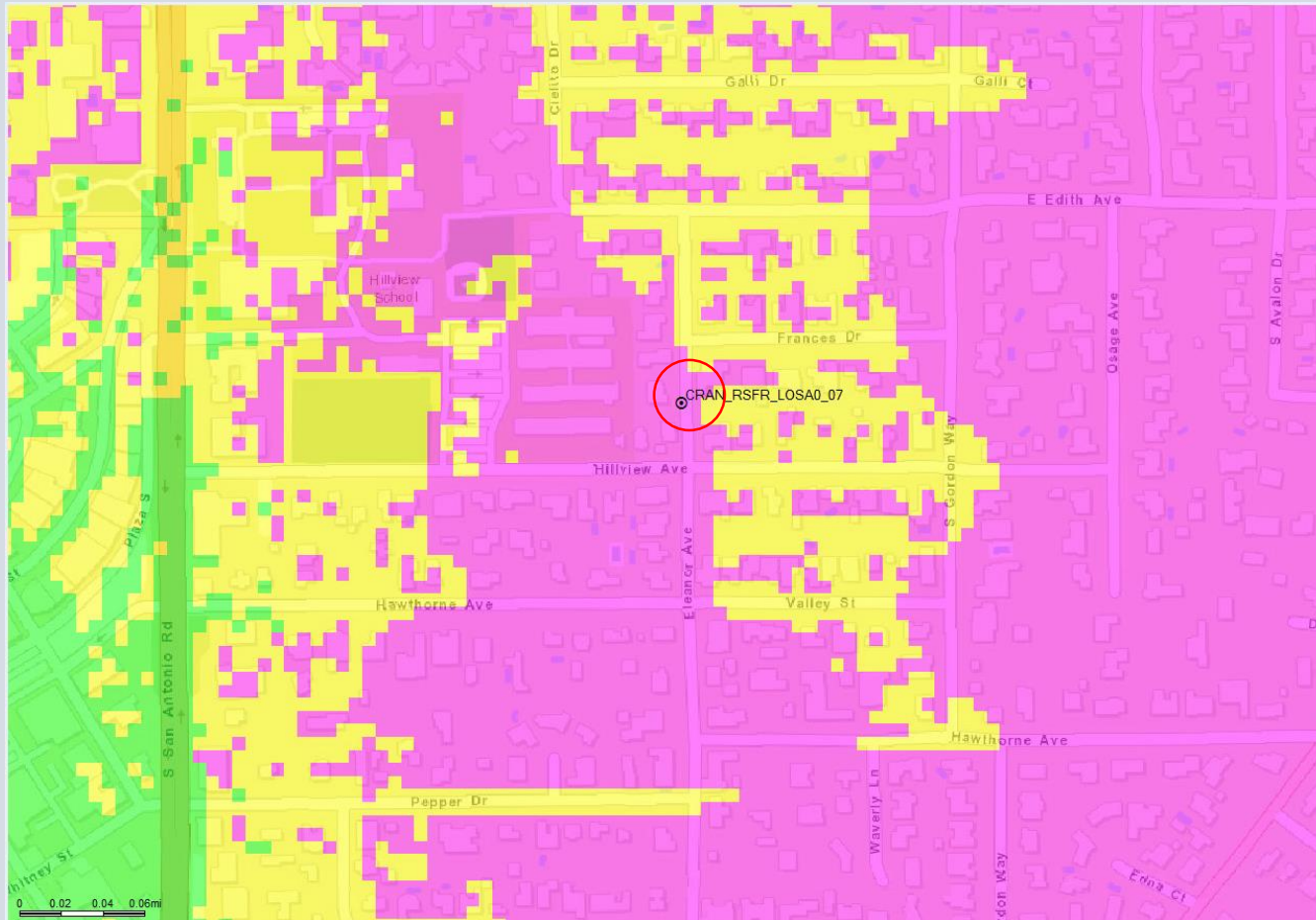
Exhibit 1 is a map of the existing high -band LTE service coverage (without the proposed small cell node). It includes high-band LTE service coverage provided by other existing AT&T sites. The green shaded areas of the map depict acceptable in-building coverage. In-building coverage means customers are able to place or receive a call on the ground floor of a building. The yellow shaded areas depict areas within a signal strength range that provide acceptable in-vehicle service coverage. In these areas, an AT&T customer should be able to successfully place or receive a call within a vehicle. The lavender shading depicts areas within a signal strength range in which a customer might have difficulty receiving a consistently acceptable level of service. The quality of service experienced by any individual customer can differ greatly depending on whether that customer is indoors, outdoors, stationary, or in transit. Any area in yellow or lavender category is considered inadequate service coverage and constitutes a service coverage gap.

Exhibit 2 to this statement is a map that predicts high-band LTE service coverage based on signal strength in the vicinity if the proposed small cell node is constructed as proposed. As shown by this map, constructing the proposed small cell node here closes this significant service coverage gap.

My conclusions are based on my knowledge of the proposed small cell locations and with AT&T's wireless network in the surrounding area. I have a B.Sc. degree in Micro-Electronic System Design from University of Ulster, UK, am a Chartered Engineer, and have worked as an engineering expert in the wireless communications industry for more than 33 years.


Philip B A Dale C Eng
AT&T Mobility Services LLC
Network, Planning & Engineering
RAN Design & RF Engineering
July 19, 2019

LTE 1900 Coverage without Small Cell LOSA0_07



Legend [X]

Coverage_RSRP (dBm)

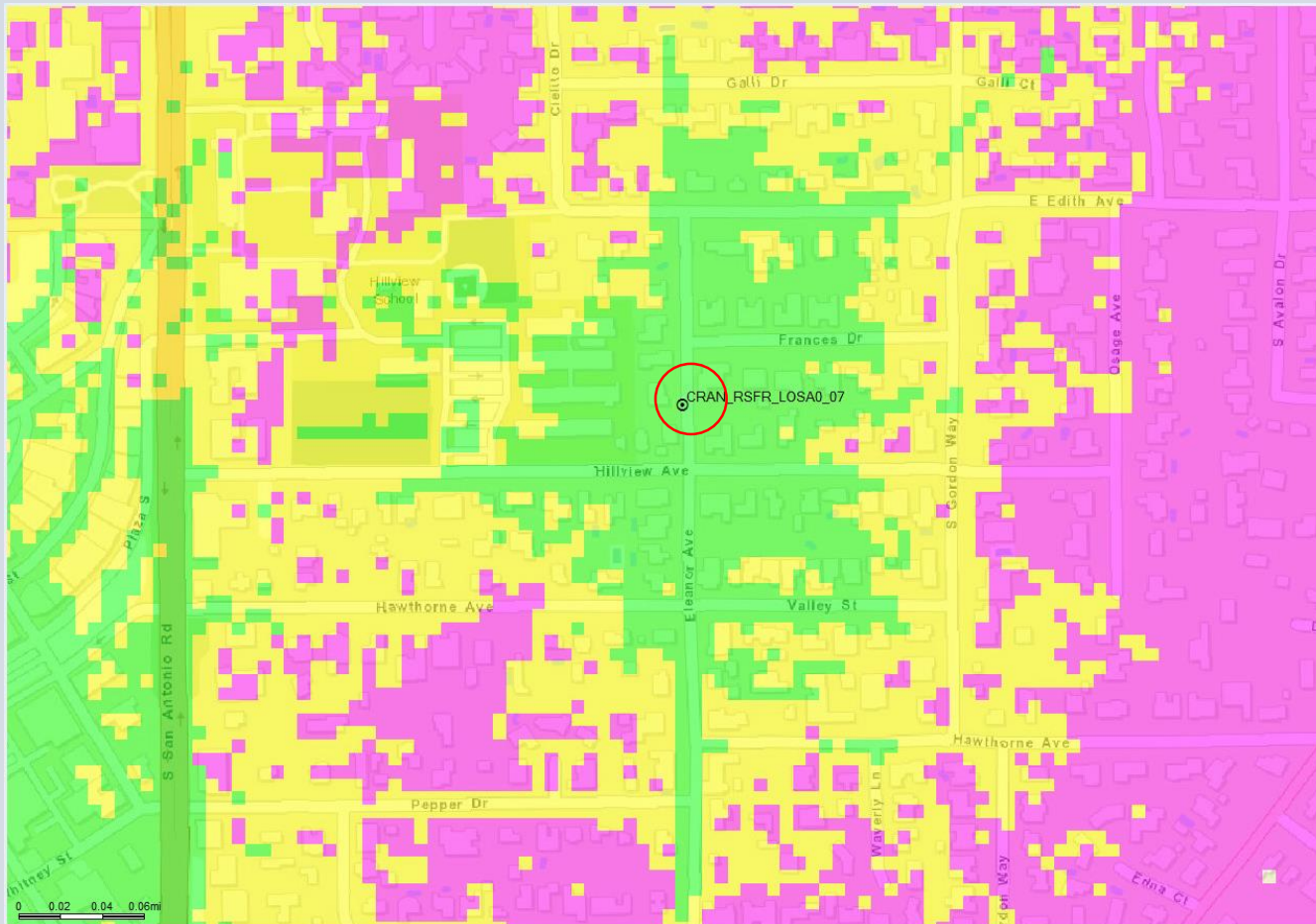
- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

Macro site

Proposed small cell Nodes




LTE 1900 Coverage with Small Cell LOSA0_07




Legend [X]

Coverage_RSRP (dBm)

- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

 Macro site

 Proposed small cell Nodes





Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

ENCROACHMENT PERMIT No. E19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed plan/drawing showing the proposed work):

LOCATION OF WORK: 182 Garland Way

TYPE OF WORK: Install equipment on existing utility pole

CONTRACTOR: Ericsson, Delbert Butcher **PHONE #** 720-317-7282

OWNER: PG&E, Jwo Cheng **PHONE #** 650-515-9842

APPLICANT: AT&T Mobility (New Cingular Wireless PCS),
Ivan Toews, SureSite Consulting, Agent **PHONE #** 949-278-2962

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any work in the traveled way section of a street.
- Applicant to construct Driveway/Walkway approach to the back of the existing rolled curb, without tying to the existing curb (cold joint).
- All work done in the City ROW shall comply with the City's Shoulder Paving Policy.
- Applicant shall provide adequate drainage with 3' wide AC swale (minimum of 4" AB plus 2" AC or 4" AC on compacted subbase is required) and conforms to existing street drainage.
- Contractor will be required to saw cut along the existing road pavement due to severe damaged edge.
- New sidewalk or curb shall be constructed per City Standards and connected to existing sidewalk or curb with #4, 16" long dowels @ 12" o.c. All saw cuts to be done at existing joints.
- Comments: _____

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ **DATE:** _____

ISSUED BY: _____ **DATE:** _____

SIGNATURE

INSPECTED BY: _____ **FINAL INSPECTION DATE:** _____

ATTACHMENT:

YES _____ **\$196.00** CREDIT CHECK CASH

NO _____

Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant and Finance

PERMIT VALID FOR 60 DAYS
 (See other side for General Requirements)

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B.** Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C.** The City may require modifications to this permit as needed because of special field conditions.
- D. NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E.** This permit does not authorize excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F.** This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G.** This permit is valid for **sixty (60) days** from the approval date unless otherwise noted.
- H.** Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- I.** Use of a Flashing Arrow Panel is **MANDATORY** when work location is within a 35 MPH speed zone.
- J.** Traffic conditions and adequate protection of the public in the vicinity of the job site shall be the responsibility of the applicant. During construction activities, two-way traffic shall be maintained. A minimum of one traffic lane shall be kept passable and under the control of competent flag persons. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable.
- K.** Any damage to painted street pavement delineations, markings or reflectors and painted curbs shall be restored as approved by the Engineer.
- L.** Excavations within the asphalt street section shall be backfilled before leaving the work for the night, unless otherwise authorized by the City's representative. Temporary surfacing shall be placed on the trench surface overnight.
- M.** All trench backfill requires certified compaction test to 95% density or greater for each lift (Maximum lift of 12") or use Controlled Density Fill (CDF) as approved.
- N.** All work shall be performed in accordance with the latest issue of Cal O.S.H.A. Safety Orders. The City has not checked trench safety and trench safety is not implied with this permit.
- O.** Landscaping is **NOT** to be disturbed any more than absolutely necessary. Restoration shall be to property owner's satisfaction.
- P.** Drainage patterns during construction shall be maintained to insure that surface drainage is properly managed and surrounding areas are protected from damage. Restoration must be to grades necessary to maintain original condition and maintain proper drainage flow lines.

Q. Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

R. All saw cut sludge/slurry should be immediately removed by means of a vacuum system.

EXHIBIT B INSURANCE

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022

Minimum Scope of Insurance

Coverage shall be *at least as broad as*:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.

3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.

4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability

insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.

6. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the umbrella or excess policy with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations. If CONSULTANT maintains broader coverage, umbrella or excess coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage, umbrella or excess coverage and/or the higher limits maintained by CONSULTANT. Any available insurance proceeds in excess of the specified minimum limits of insurance and any other coverages shall be available to the CITY.

Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy and the Automobile Liability policy, with endorsements under CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage, with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations.

Primary Coverage. For any claims related to this contract, the CONSULTANT’s insurance coverage shall be primary insurance as respects the CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, or volunteers shall be excess of the CONSULTANT’s insurance and shall not contribute with it.

Notice of Cancellation. Each insurance policy required above shall be endorsed to state that coverage shall not be canceled except after thirty (30) days’ prior written notice (10 days for non-payment) has been given to the CITY.

Waiver of Subrogation. CONSULTANT hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONSULTANT may acquire against the CITY by virtue of the payment of any loss under such insurance. CONSULTANT agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by the CITY. The CITY may require the CONSULTANT to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

Claims Made Policies. If any of the required policies provide claims-made coverage:

7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.
8. Insurance must be maintained and evidence of insurance must be provided *for at least three (3) years after completion of the contract work.*

9. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONSULTANT must purchase “extended reporting” coverage for a minimum of *three (3)* years after completion of contract work.

Verification of Coverage. CONSULTANT shall furnish the CITY with original certificates and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the CITY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONSULTANT’s obligation to provide them. The CITY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

TEMPORARY LANE CLOSURE PERMIT LC19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed drawing showing the proposed location(s)):

LOCATION: 182 Garland Way
 TYPE OF WORK: Install equipment on existing utility pole
 DATE(S) REQUESTED: 3/21/2019
 CONTRACTOR: Ericsson, Delbert Butcher PHONE # 720-317-7282
 OWNER: PG&E, Jwo Cheng PHONE # 650-515-9842
 APPLICANT: AT&T Mobility (New Cingular Wireless PCS), PHONE # 949-278-2962
Ivan Toews, SureSite Consulting, Agent

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any lane or road closure.
- Comments:**

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ DATE: _____
 ISSUED BY: _____ DATE: _____
 _____ SIGNATURE
 INSPECTED BY: _____ FINAL INSPECTION DATE: _____

APPLICATION FEE (includes the first day):	\$ 505.00
0 additional days at \$62/day:	\$ -
TOTAL FEES:	\$ 505.00

ATTACHMENT:

YES Traffic Control Plan CREDIT CHECK CASH
 NO _____ Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant, Police Department, and Finance

PERMIT VALID FOR _____ DAYS
 See other side for General Requirements

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B.** Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C.** The City may require modifications to this permit as needed because of special field conditions.
- D. NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E.** This permit does not authorize any excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F.** This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G.** Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- H.** Use of a Flashing Arrow Panel is MANDATORY when work location is within a 35 MPH speed zone.
- I.** Traffic conditions and adequate protection of the public in the vicinity of the stall(s) shall be the responsibility of the applicant. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable
- J.** Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

**EXHIBIT B
INSURANCE**

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022
Minimum Scope of Insurance

Coverage shall be *at least as broad as:*

CONSULTANT shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: **Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022**

Minimum Scope of Insurance

Coverage shall be *at least as broad as:*

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.
3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.
4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.
6. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the umbrella or excess policy with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations. If CONSULTANT maintains broader coverage, umbrella or excess coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage, umbrella or excess coverage and/or the higher limits maintained by CONSULTANT. Any available insurance proceeds in excess of the specified minimum limits of insurance and any other coverages shall be available to the CITY.

Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy and the Automobile Liability policy, with endorsements under CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage, with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations.

Primary Coverage. For any claims related to this contract, the CONSULTANT’s insurance coverage shall be primary insurance as respects the CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, or volunteers shall be excess of the CONSULTANT’s insurance and shall not contribute with it.

Notice of Cancellation. Each insurance policy required above shall be endorsed to state that coverage shall not be canceled except after thirty (30) days’ prior written notice (10 days for non-payment) has been given to the CITY.

Waiver of Subrogation. CONSULTANT hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONSULTANT may acquire against the CITY by virtue of the payment of any loss under such insurance. CONSULTANT agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by the CITY. The CITY may require the CONSULTANT to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

Claims Made Policies. If any of the required policies provide claims-made coverage:

7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.

8. Insurance must be maintained and evidence of insurance must be provided *for at least three (3) years after completion of the contract work.*
9. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONSULTANT must purchase “extended reporting” coverage for a minimum of *three (3)* years after completion of contract work.

Verification of Coverage. CONSULTANT shall furnish the CITY with original certificates and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the CITY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONSULTANT’s obligation to provide them. The CITY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name: CRAN_RSFR_LOSA0_08	Site Structure Type: Utility Pole
Address: 182 Garland Way Los Altos, California	Latitude: 37.3845778
Report Date: October 26, 2018 rev1	Longitude: -122.1157722
	Project: New Build

General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed CRAN_RSFR_LOSA0_08 site located at 182 Garland Way, Los Altos, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by AT&T Mobility.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure (“MPE”) limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

Frequency (MHz)	<i>Limits for General Population/ Uncontrolled Exposure</i>		<i>Limits for Occupational/ Controlled Exposure</i>	
	Power Density (mW/cm ²)	Averaging Time (minutes)	Power Density (mW/cm ²)	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

AT&T Mobility proposes the following installation at this location:

- Install 1 KMW FX-OM2LIOH2 Cylindrical Antenna
- Install 1 4415 Radio
- Install 1 RRUS-11 Radio

The antenna will be mounted on a 38-foot Utility Pole with a centerline 46.1 feet above ground level. The antenna is quasi-omnidirectional and will radiate in all directions. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 987 Watts. Other appurtenances such as GPS antennas, RRUs and hybrid cable are not sources of RF emissions. From this site, AT&T Mobility will enhance voice and data services to surrounding areas in licensed 700 and 1900 MHz bands. No other antennas are known to be operating in the vicinity of this site.

Power density decreases significantly with distance from any antenna. The quasi-omnidirectional antenna to be employed at this site is operating at relatively low power and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antenna. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.3575% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.9575% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or at adjacent buildings by 5% of the General Population limits.

For areas on the pole that are predicted to exceed the General Population limits, Waterford Consultants, LLC recommends that AT&T Mobility post an RF alerting sign (Caution) on the pole 42 feet above ground level to be visible upon approach by authorized personnel to provide notification of potential conditions above this level. This recommendation is depicted in Figure 2. Any work activity in front of transmitting antennas should be coordinated with AT&T Mobility.

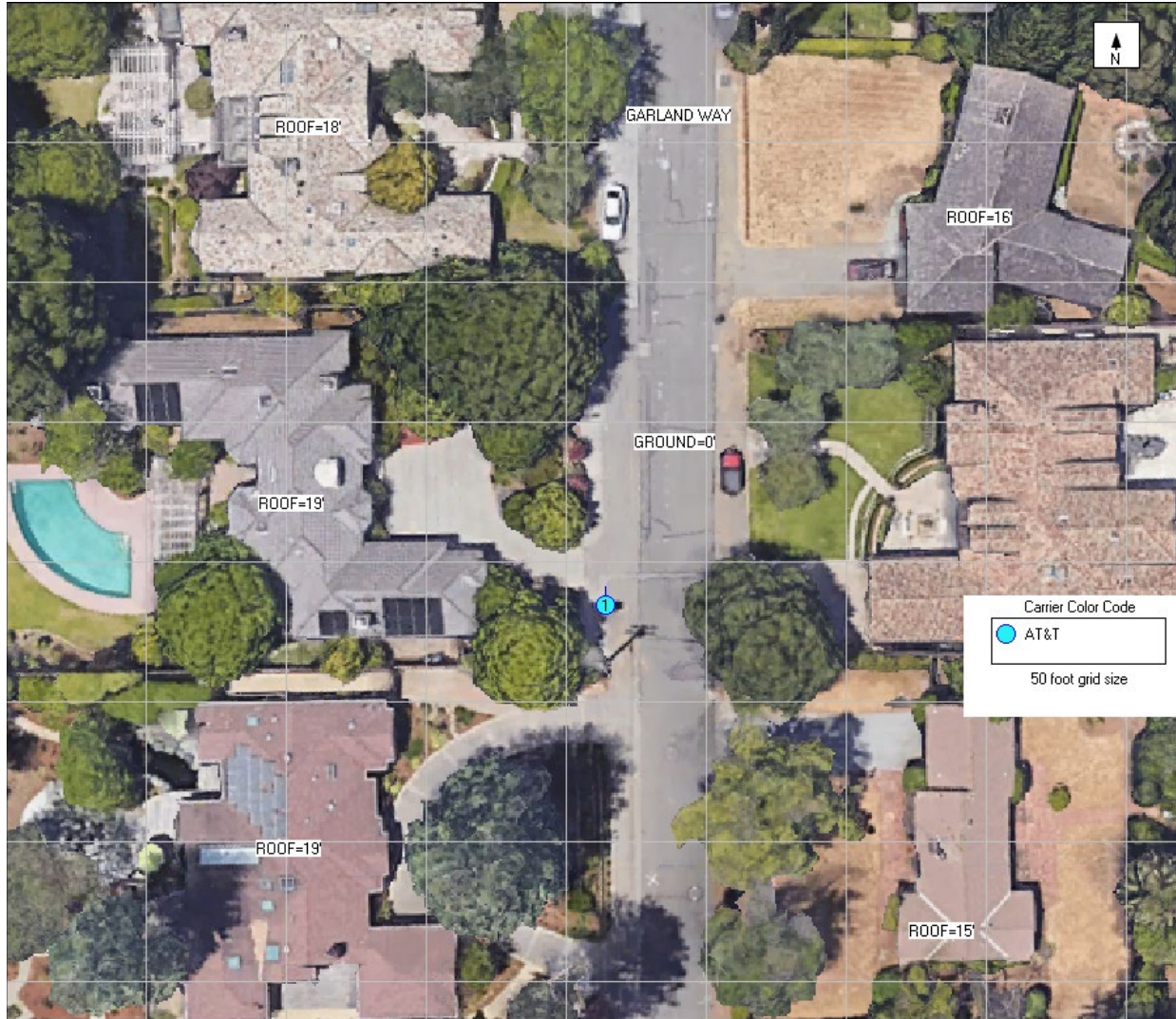


Figure 1: Antenna Locations

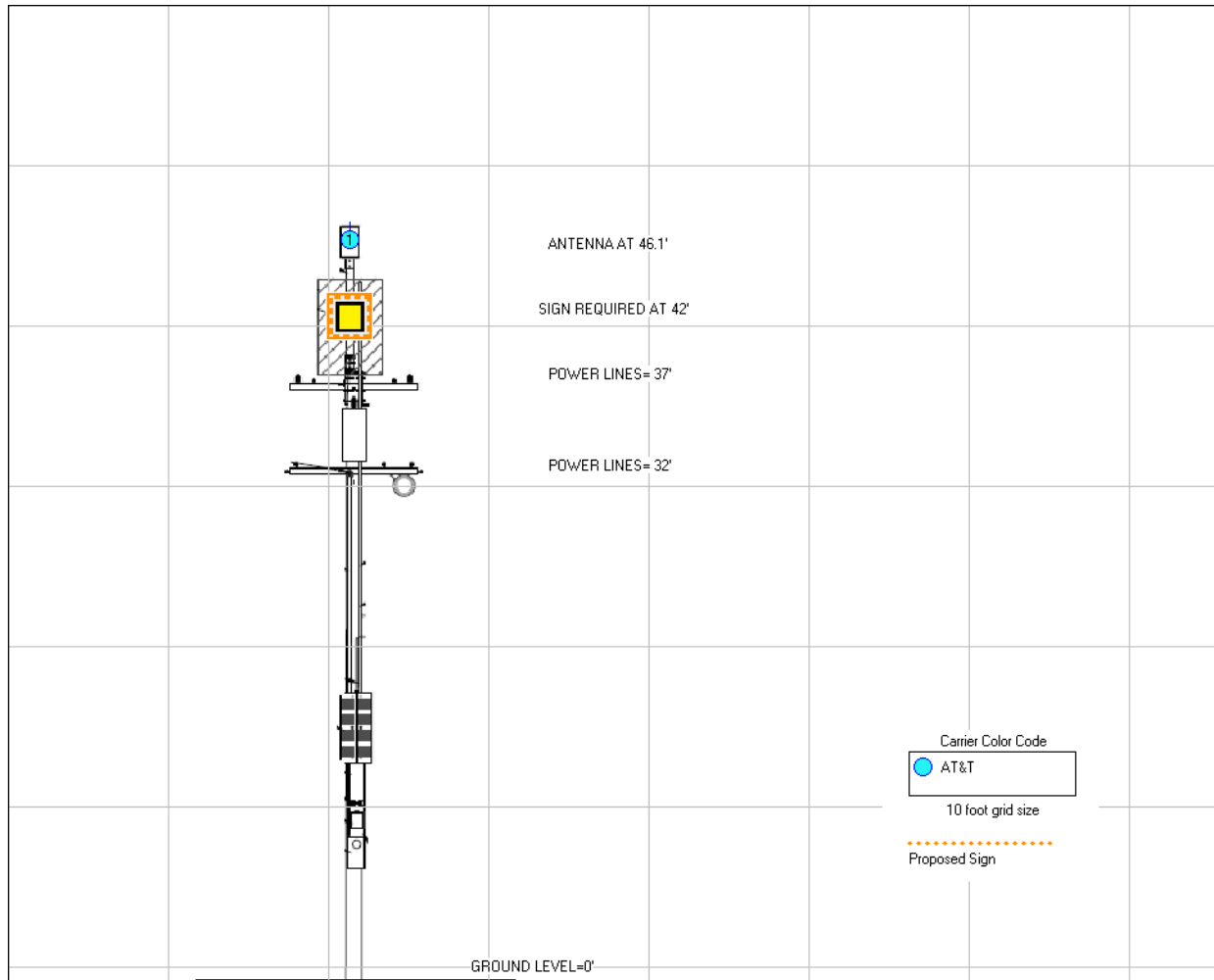


Figure 2: Mitigation Recommendations

Caution

Compliance Statement

Based on information provided by AT&T Mobility, predictive modeling and the mitigation action to be implemented by AT&T Mobility, the installation proposed by AT&T Mobility at 182 Garland Way, Los Altos, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to these areas to authorized personnel that have completed RF safety training is required for Occupational environment compliance.

Certification

I, David H. Kiser, am the reviewer and approver of this report and 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, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.





PRECISION DESIGN

October 31, 2018

Suresite for AT&T
36 Executive Park, Suite 210
Irvine, CA 92614

Subj: CRAN_RSFR_LOSA0_008

We have analyzed the wood pole at 182 Garland Way, Los Altos, CA 94022 (37.3845778, -122.1157722) using O-Calc Pro 5.03 Utility Pole software.

Data for the wood pole was obtained from a previous site walk and photographs on May 23, 2018, as well as Google Earth images. Proposed equipment is provided by our client. Based on our analysis the pole with proposed loading is at 92.9% capacity and may be **considered adequate to support the proposed loads.**

Please contact me if you have any questions.

Sincerely,

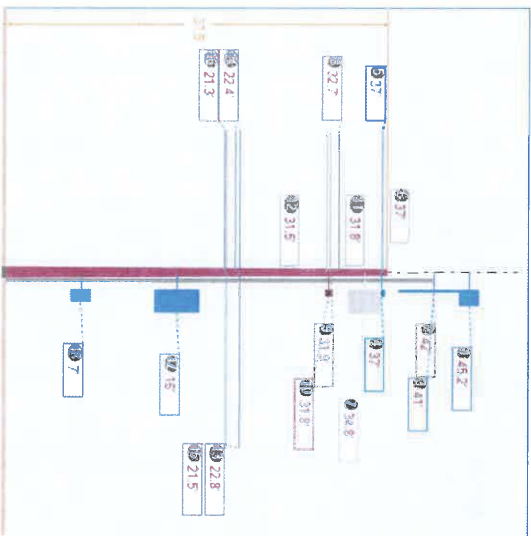
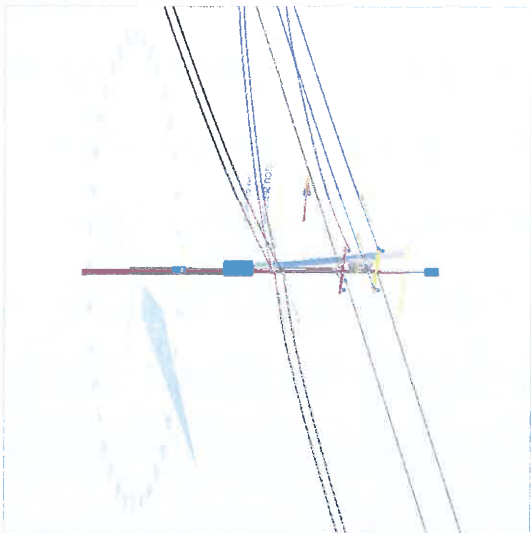
Bret McComb, P.E.



Attachments:

1. O-Calc Output: 4 pages
2. Pole Size Chart: 1 page

Pole Num:	CRAN_RSFR_LOSA0_08	Pole Length / Class:	45 / 4	Code:	GO 95	Structure Type:	Guyed Tangent
Aux Data 1	Unset	Species:	DOUGLAS FIR	NESC Rule:	-	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	7.50	Construction Grade:	B	Pole Strength Factor:	0.50
Aux Data 3	Unset	G/L Circumference (in):	34.46	Loading District:	Light	Transverse Wind LF:	1.00
Aux Data 4	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.00	Wire Tension LF:	1.00
Aux Data 5	Unset	Allowable Stress (psi):	3,889	Wind Speed (mph):	55.90	Vertical LF:	1.00
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	8.00		
Latitude:		Longitude:	37.384578 Deg	Elevation:	-122.115772 Deg		156.4 Feet



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Crossarm allowance 300 lbs		
Maximum	92.9	0.0
Groundline	92.9	0.0
Vertical	3.4	26.3

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Crossarm allowance 300 lbs		
Max Cap Util	38,729	272.3
Groundline	38,729	272.3
GL Allowable	41,995	267.0

Guy System Component Summary

Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Load From Worst Wind Angle on Pole		Individual Maximum Load	
				Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
▶ Anchor	205.0	0.0	37.0	16.0	267.0	18.8	180.0
• EHS 3/8 (Span/Head)			37.0	14.7	267.0	16.2	180.0
• EHS 3/8 (Span/Head)			31.8	6.1	267.0	8.2	180.0
▶ Anchor	230.0	180.0	31.5	0.0	267.0	0.0	0.0
• EHS 3/8 (Span/Head)			31.5	0.0	267.0	0.0	0.0

System Capacity Summary:

Adequate

Adequate

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 272.3°												
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)		
Powers	-8	-0.5	-305	-0.8	-0.7	-28	46	0	-27	-0.7		
Comms	845	53.8	19,884	51.3	47.4	1,814	388	4	1,818	46.7		
Guy Braces	176	11.2	6,172	15.9	14.7	563	87	1	564	14.5		
Power Equipments	52	3.3	1,780	4.6	4.2	162	640	7	169	4.3		
Generic Equipments	120	7.6	2,747	7.1	6.5	251	213	2	253	6.5		
Pole	220	14.0	4,196	10.8	10.0	383	975	10	393	10.1		
Crossarms	3	0.2	90	0.2	0.2	8	106	1	9	0.2		
Risers	147	9.3	3,624	9.4	8.6	331	74	1	331	8.5		
Insulators	16	1.0	541	1.4	1.3	49	71	1	50	1.3		
Pole Load	1,569	100.0	38,729	100.0	92.2	3,533	2,600	28	3,560	91.5		
Pole Reserve Capacity			3,266		7.8	356			329	8.5		

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 272.3°												
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)		
<Undefined>	1,349	86.0	34,533	89.2	82.2	3,150	1,625	17	3,167	81.4		
Pole	220	14.0	4,196	10.8	10.0	383	975	10	393	10.1		
Totals:	1,569	100.0	38,729	100.0	92.2	3,533	2,600	28	3,560	91.5		

Detailed Load Components:

Power	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Primary	AAC 4/0 AWG 7 STRAND OXLIP	37.00	43.81	0.5220	3.02	0.198	230.0	180.0	230.0	1,100	-1,628	6	1,478	-145
Primary	AAC 4/0 AWG 7 STRAND OXLIP	37.00	43.81	0.5220	3.02	0.198	230.0	180.0	230.0	1,100	-1,628	-6	1,478	-156
Totals:											-3,256	0	2,955	-301

Comm	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)

Equipment	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)	
Telco	32.69	40.36	1.2500	2.06	0.600	50.0	270.0	50.3	100	3,133	131	-1	
Telco	22.83	6.68	1.2500	5.47	0.600	230.0	180.0	230.2	1,000	-913	-38	2,184	
Telco	22.39	48.46	1.2500	0.99	0.600	50.0	270.0	50.1	200	4,310	-3	-1	
Telco	22.83	6.68	1.2500	4.59	0.600	205.0	0.0	205.2	1,000	913	-34	1,946	
Telco	21.50	6.76	1.2500	5.47	0.600	230.0	180.0	230.2	1,000	-860	-39	2,056	
Telco	21.33	19.23	1.2500	0.99	0.600	50.0	270.0	50.1	200	4,152	-7	-1	
Telco	21.50	6.76	1.2500	4.59	0.600	205.0	0.0	205.2	1,000	860	-35	1,833	
Totals:										11,596	-26	8,015	19,585

Equipment	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Transformer	34.75	21.50	180.0	180.0	640.00	39.00	--	24.00	--	-46	1,799	1,754
Totals:										-46	1,799	1,754

Equipment	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Cylinder	41.00	0.14	0.0	0.0	53.06	84.00	--	3.00	--	0	572	572
Cylinder	45.25	0.36	180.0	0.0	20.00	24.00	--	16.00	--	0	871	871
Box	16.00	12.57	180.0	0.0	130.00	53.00	16.00	--	23.00	-5	1,200	1,194
Box	7.00	7.40	180.0	0.0	10.00	24.00	4.63	--	12.00	0	69	68
Totals:										-6	2,711	2,705

Equipment	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Normal	37.00	5.12	180.0	180.0	180.0	53.00	4.50	3.50	96.00	-1	49	48
Normal	31.83	5.42	180.0	180.0	180.0	53.00	4.50	3.50	96.00	-1	42	41
Totals:										-2	91	89

Equipment	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Riser 125.0°	42.00	5.68	125.0	125.0	42.00	504.00	4.00	4.00	504.00	-16	1,921	1,905
Riser 200.0°	31.92	5.68	200.0	200.0	31.92	383.00	4.00	4.00	383.00	4	1,660	1,665
Totals:										-12	3,582	3,570

Equipment	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Post	37.19	40.00	262.7	0.0	0.0	11.00	4.75	8.00	36	78	115
Post	37.19	-40.00	97.3	0.0	0.0	11.00	4.75	8.00	-37	78	42

Deadend	Deadend 12.75"	37.00	40.00	262.7	0.0	3.00	3.80	12.75	10	99	109	
Deadend	Deadend 12.75"	37.00	-40.00	97.3	0.0	3.00	3.80	12.75	-10	99	89	
Post	Post Insulator - 15 KV	32.02	-20.00	105.2	0.0	11.00	4.75	8.00	-19	68	49	
Post	Post Insulator - 15 KV	32.02	40.00	262.3	0.0	11.00	4.75	8.00	36	68	104	
Post	Post Insulator - 15 KV	32.02	-40.00	97.7	0.0	11.00	4.75	8.00	-37	68	31	
Bolt	Single Bolt	22.83	0.00	90.0	90.0	5.00	3.00	0.00	-3	0	-3	
Bolt	Single Bolt	21.50	0.00	90.0	90.0	5.00	3.00	0.00	-3	0	-3	
Totals:										-25	558	533

Guy Wire and Brace	Owner	Attach Height (ft)	End Height (ft)	Lead/Span Length (ft)	Wire Diameter (in)	Percent Solid (%)	Lead Angle (deg)	Incline Angle (deg)	Wire Weight (lbs/ft)	Rest Length (ft)	Stretch Length (in)
EHS 3/8		Span/Head	37.00	37.00	205.00	0.375	75.00	0.0	0.273	202.36	2.17
EHS 3/8		Span/Head	31.83	31.83	205.00	0.375	75.00	0.0	0.273	202.33	0.90
EHS 3/8		Span/Head	31.50	31.50	230.00	0.375	75.00	180.0	0.273	227.32	0.00

Guy Wire and Brace (Loads and Reactions)	Elastic Modulus (psi)	Rated Tensile Strength (lbs)	Guy Strength Factor	Allowable Tension (lbs)	Initial Tension (lbs)	Loaded Tension*2 (lbs)	Maximum Tension*2 (lbs)	Applied Tension*3 (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL*3 (ft-lb)		
EHS 3/8	2.30e+7	15,400	0.75	11,550	700	1,867	1,867	1,701	0	1,701	68	3,465		
EHS 3/8	2.30e+7	15,400	0.75	11,550	700	950	950	705	0	705	28	1,712		
EHS 3/8	2.30e+7	15,400	0.75	11,550	700	0	0	0	0	0	0	902		
Totals:											0	2,407	96	6,079

Anchor/Rod Load Summary	Owner	Rod Length AGL (in)	Lead Length (ft)	Lead Angle (deg)	Strength of Assembly (lbs)	Anchor/Rod Strength Factor	Allowable Load (lbs)	Max Load*2 (lbs)	Load at Pole M/CU*3 (lbs)	Max Required Capacity*2 (%)
Anchor		30.00	205.00	0.0	20,000	0.75	15,000	2,817	2,407	18.8
Anchor		30.00	230.00	180.0	20,000	0.75	15,000	0	0	0.0

Pole Buckling	Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
	0.71	26.26	34.10	9.95	8.99	6.69	10.98	1.60e+6	60.00	57.00	37.50	75,949	764.66	29.41

DOUGLAS FIR POLE SIZING CHART

Class	H-6	H-5	H-4	H-3	H-2	H-1	1	2	3	4	5	6
Minimum Circumference at Top (Inches)	39	37	35	33	31	29	27	25	23	21	19	17
Length of Pole (Feet)	Minimum Circumference at 6 feet from Butt (Inches)											
20	-	-	-	-	-	-	31.0	29.0	27.0	25.0	23.0	21.0
25	-	-	-	-	-	-	33.5	31.5	29.5	27.5	25.5	23.0
30	-	-	-	-	-	-	36.5	34.0	32.0	29.5	27.5	25.0
35	-	-	-	-	43.5	41.5	39.0	36.5	34.0	31.5	29.0	27.0
40	-	-	51.0	48.5	46.0	43.5	41.0	38.5	36.0	33.5	31.0	28.5
45	58.5	56.0	53.5	51.0	48.5	45.5	43.0	40.5	37.5	35.0	32.5	30.0
50	61.0	58.5	55.5	53.0	50.5	47.5	45.0	42.0	39.0	36.5	34.0	-
55	63.5	60.5	58.0	55.0	52.0	49.5	46.5	43.5	40.5	38.0	-	-
60	65.5	62.5	59.5	57.0	54.0	51.0	48.0	45.0	42.0	39.0	-	-
65	67.5	64.5	61.5	58.5	55.5	52.5	49.5	46.5	43.5	40.5	-	-
70	69.0	66.5	63.5	60.5	57.0	54.0	51.0	48.0	45.0	41.5	-	-
75	71.0	68.0	65.0	62.0	59.0	55.5	52.5	49.0	46.0	-	-	-
80	72.5	69.5	66.5	63.5	60.0	57.0	54.0	50.5	47.0	-	-	-
85	74.5	71.5	68.0	65.0	61.5	58.5	55.0	51.5	48.0	-	-	-
90	76.0	73.0	69.5	66.5	63.0	59.5	56.0	53.0	49.0	-	-	-
95	77.5	74.5	71.0	67.5	64.5	61.0	57.0	54.0	-	-	-	-
100	79.0	76.0	72.5	69.0	65.5	62.0	58.5	55.0	-	-	-	-
105	80.5	77.0	74.0	70.5	67.0	63.0	59.5	56.0	-	-	-	-
110	82.0	78.5	75.0	71.5	68.0	64.5	60.5	57.0	-	-	-	-
115	83.5	80.0	76.5	72.5	69.0	65.5	61.5	58.0	-	-	-	-
120	85.0	81.0	77.5	74.0	70.0	66.5	62.5	59.0	-	-	-	-
125*	86.0	82.5	78.5	75.0	71.0	67.5	63.5	59.5	-	-	-	-
	H-6	H-5	H-4	H-3	H-2	H-1	1	2	3	4	5	6

* 125' Availability: Untreated Only



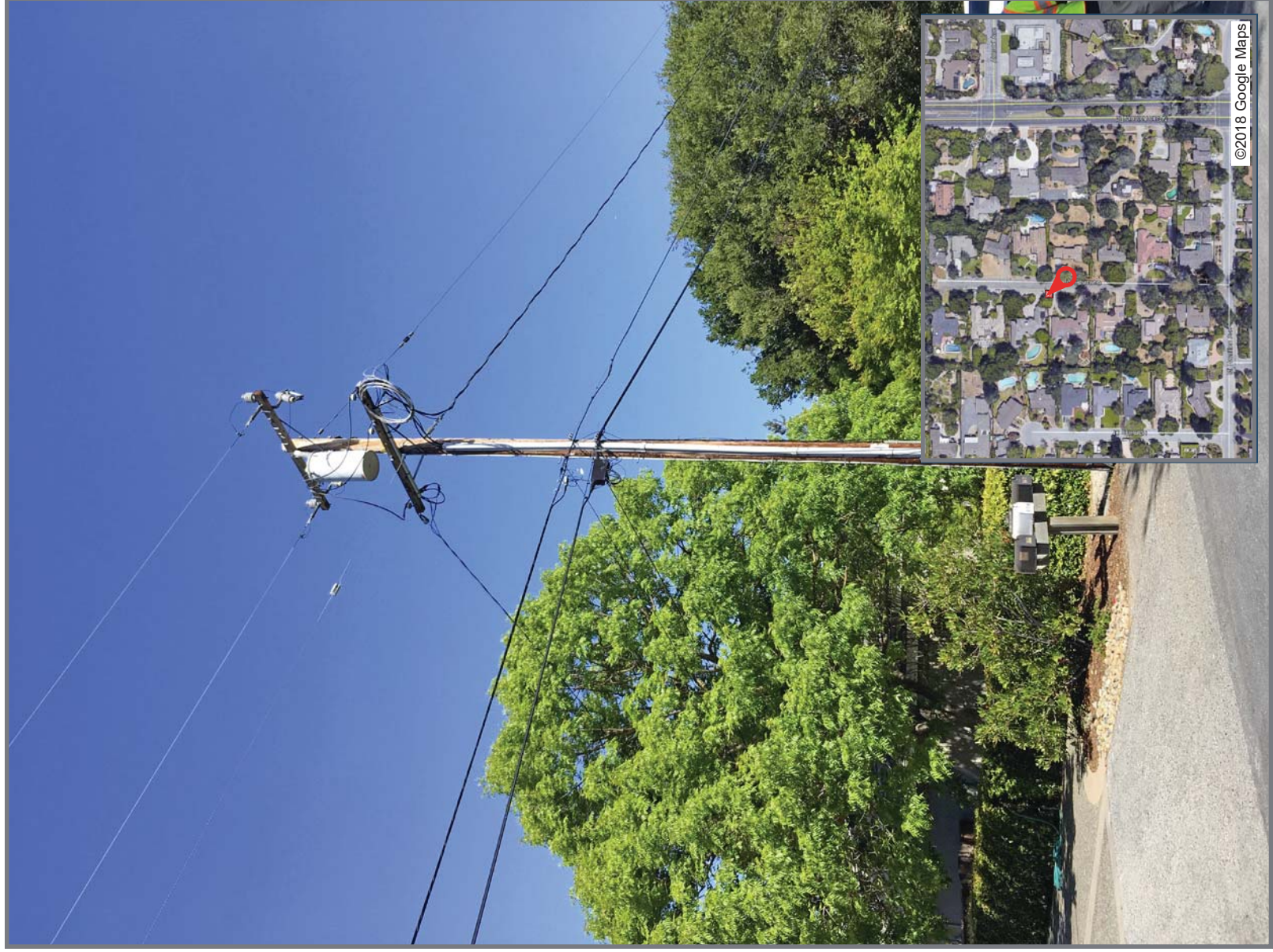
at&t

CRAN_RSFR_LOSAO_08

182 GARLAND WAY LOS ALTOS CA 94022



VIEW 1



EXISTING



PROPOSED

LOOKING NORTHWEST FROM GARLAND WAY

Alternate Review

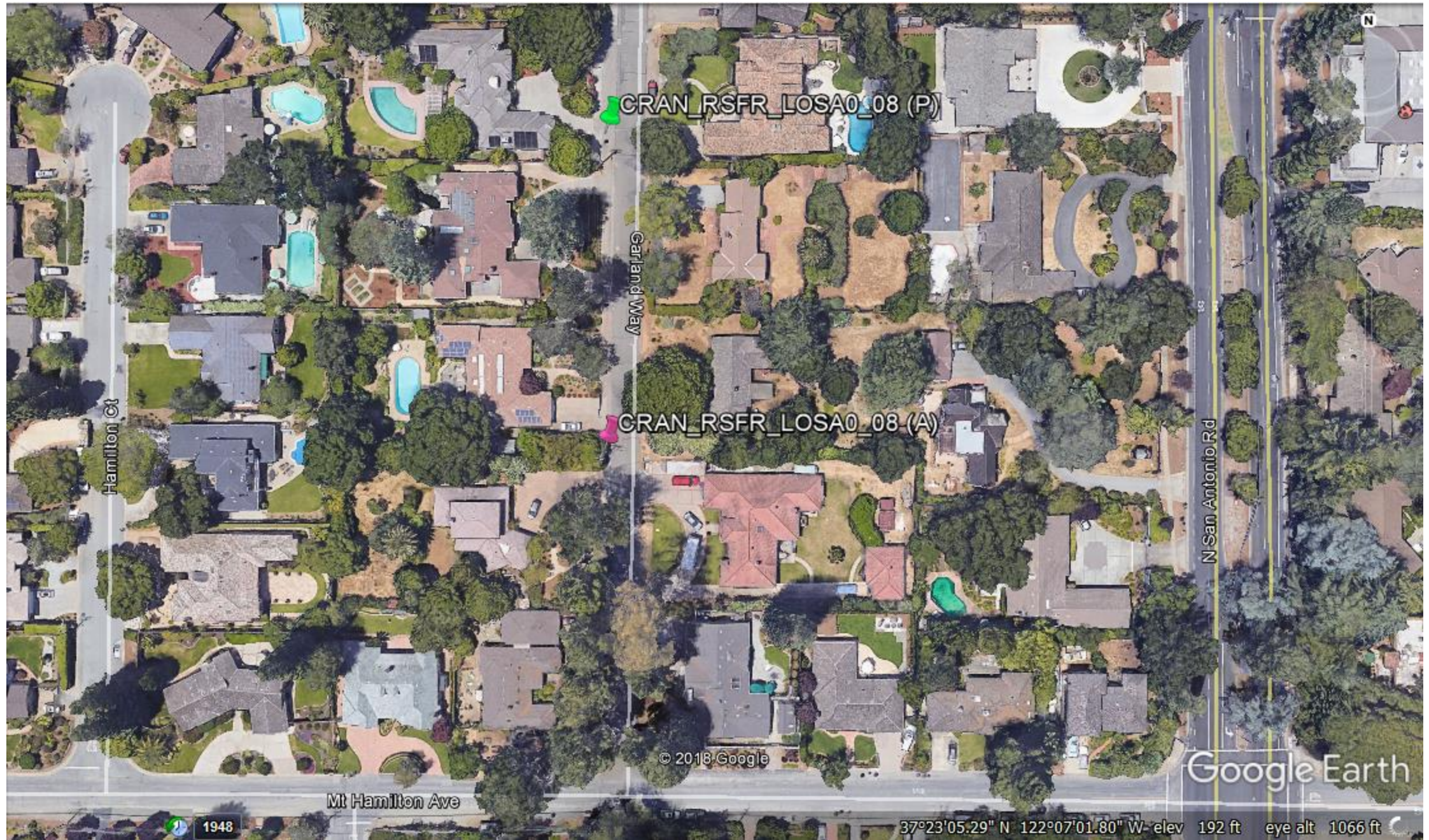
- ❑ AT&T proposed a node location near Almond Avenue and North San Antonio Road
- ❑ Existing (traditional) cell sites are not suitable candidates for colocation as they do not meet network requirements
- ❑ One alternate location was considered



Alternative Site Location

This location is a wood utility pole located in the public ROW on the west side of Garland Way off Mount Hamilton Avenue

This pole is a possible candidate but has more pole top equipment and is less desirable due to network traffic needs.



CRAN_RSFR_LOSA0_08 (P)

CRAN_RSFR_LOSA0_08 (A)

Hamilton Ct

Garland Way

N San Antonio Rd

Mt Hamilton Ave

© 2018 Google

Google Earth

1948

37°23'05.29" N 122°07'01.80" W -elev 192 ft eye alt 1066 ft

AT&T Future Build-out Sites



Name	Address
LOSA0_01	141 Almond Ave
LOSA0_02	687 Linden Ave
LOSA0_03	421 Valencia
LOSA0_04	33 Pine
LOSA0_05	49 San Juan
LOSA0_06	791 Los Altos
LOSA0_07	98 Eleanor
LOSA0_08	182 Garland
LOSA0_09	491 Patrick Way
LOSA0_10	300 Los Altos Ave
LOSA0_11	130 Los Altos
LOSA0_12	356 Blue Oak
SJWE_007	5000 El Camino Real
SJWE_012	4294 El Camino Real

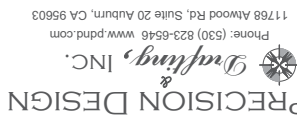


ART MOBILITY
5001 DECUITTE PARKWAY
SAN RAMON, CA 94583



36 DECUITTE PARK, SUITE 210
IRVINE, CA 92614

Infrastructure experts. Small cell leaders.



11768 Alwood Rd, Suite 20 Auburn, CA 95603
Phone: (530) 823-6546 www.pdnd.com

THESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. CONTRACTORS SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE PLANS OR SPECIFICATIONS UNLESS THEY ARE CAUSED BY NEGLIGENCE OR WILLFUL MISFEASANCE.

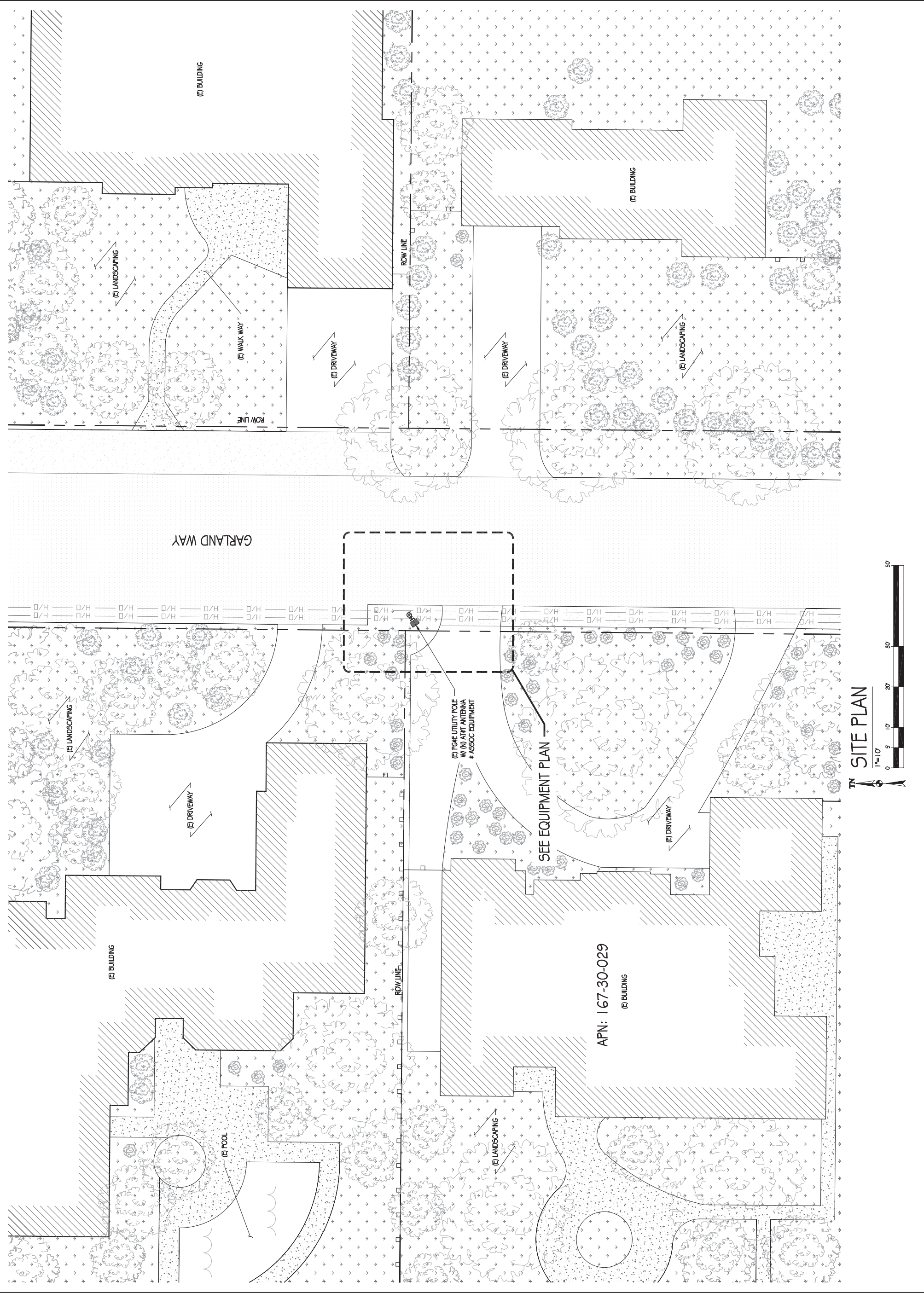


CRAN_RSFR_LOSAO_08
ROW ADJACT TO 162 GARLAND WAY
LOS AUTOS, CA 94022

ISSUE STATUS	
DATE	DESCRIPTION
06/20/16	CD 90%
11/01/16	CD 100%

DRAWN BY: T. JONES
CHECKED BY: T. DICARLO
APPROVED BY: B. MCCOMB
DATE: 06/20/16
SHEET TITLE:

SITE PLAN
SHEET NUMBER
A-1





ART MOBILITY
5001 DECLUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

Infrastructure experts. Small cell leaders.



11768 Alwood Rd, Suite 20 Auburn, CA 95603
Phone: (530) 823-6546 www.pdnd.com

PRECISION DESIGN & DRAFTING, INC. IS AN EQUAL OPPORTUNITY EMPLOYER. ALL RIGHTS RESERVED.
THESE PLANS AND SPECIFICATIONS, AS REVISED OR SERVICE, ARE NOT BEAR THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. UNLESS THEY ARE SPECIFICALLY IDENTIFIED AS SUCH BY PRECISION DESIGN & DRAFTING, INC.



CRAN_RSFR_LOSAO_08
ROW ADJUCT TO 162 GARLAND WAY
LOS AUTOS, CA 94022

ISSUE STATUS

Δ	DATE	DESCRIPTION
	06/20/16	CD 90%
	11/01/16	CD 100%

DRAWN BY: T. JONES

CHECKED BY: T. DCARLO

APPROVED BY: B. MCCOMB

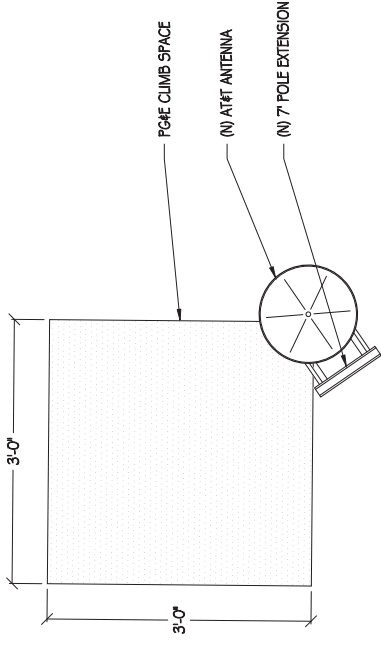
DATE: 06/20/16

SHEET TITLE:

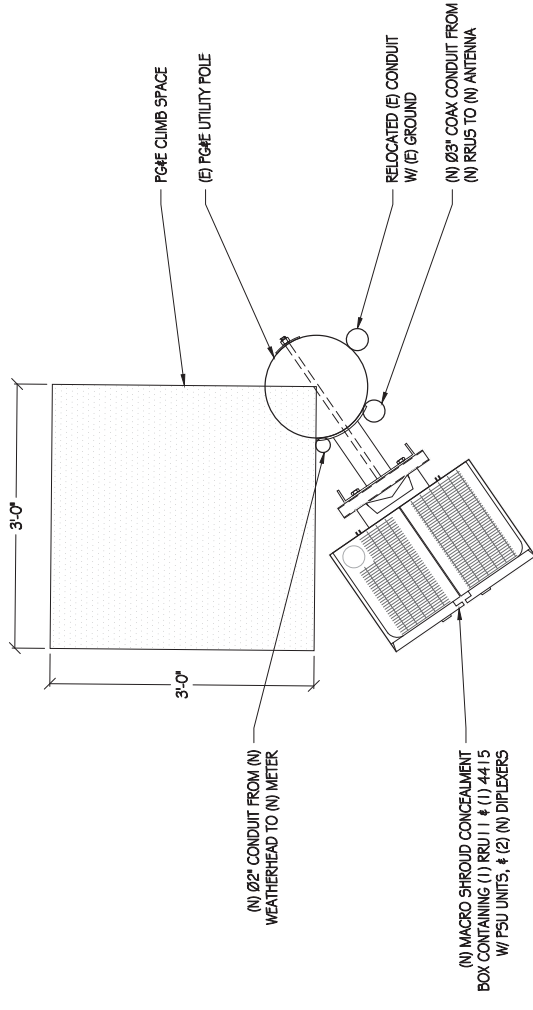
EQUIPMENT PLAN &
ANTENNA PLANS

SHEET NUMBER

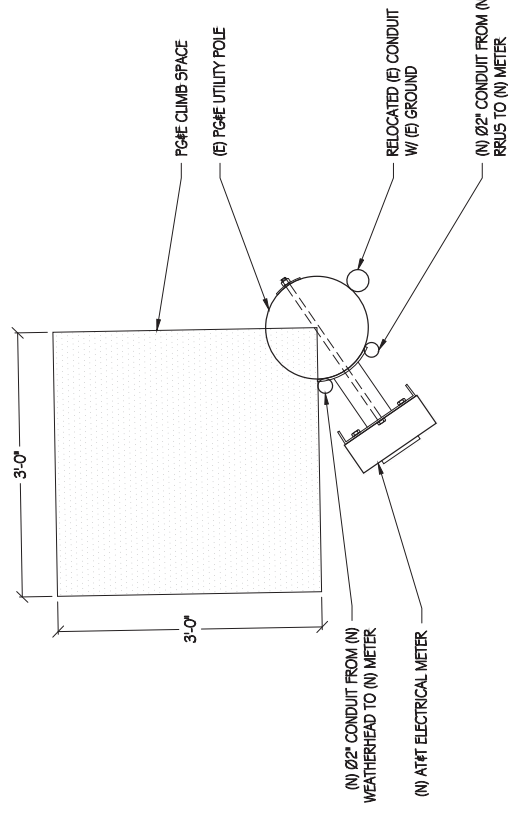
A-2



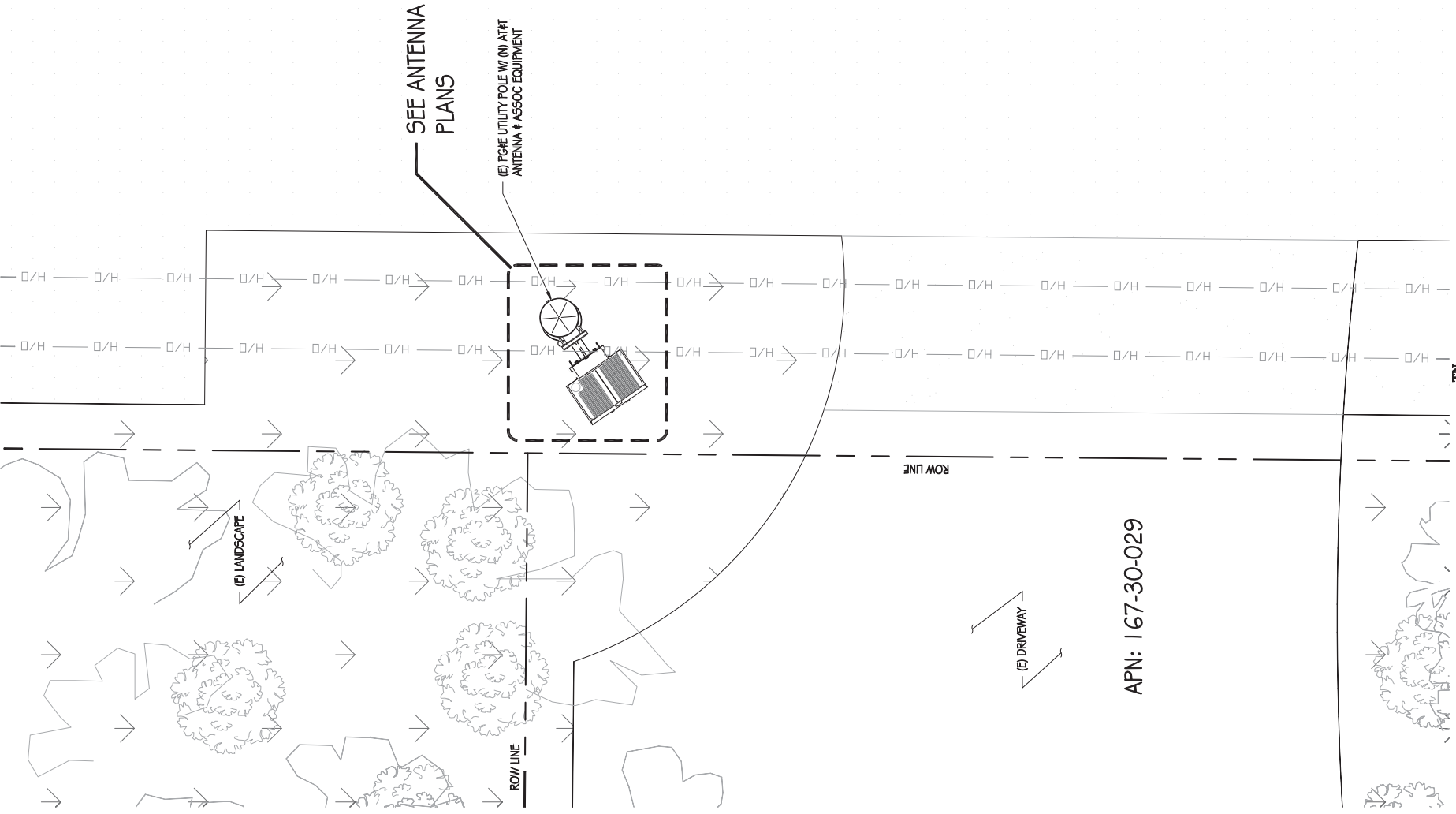
ANTENNA PLAN
1"=1'



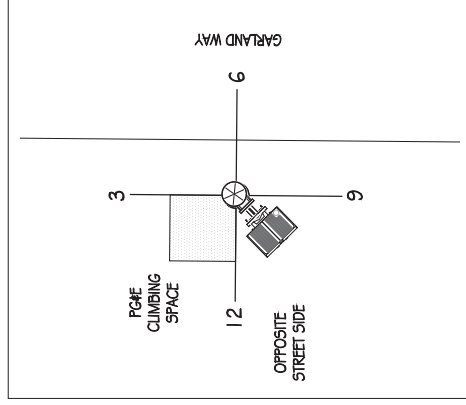
RRU PLAN
1"=1'



ELECTRICAL METER PLAN
1"=1'



EQUIPMENT PLAN
1/2"=1'

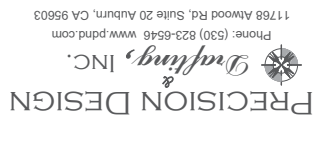




AT&T MOBILITY
5001 DECUITVE PARKWAY
SAN RAMON, CA 94583



36 DECUITVE PARK, SUITE 210
IRVINE, CA 92614



11788 Alwood Rd, Suite 20 Auburn, CA 95603
Phone: (530) 823-6546 www.prdnd.com



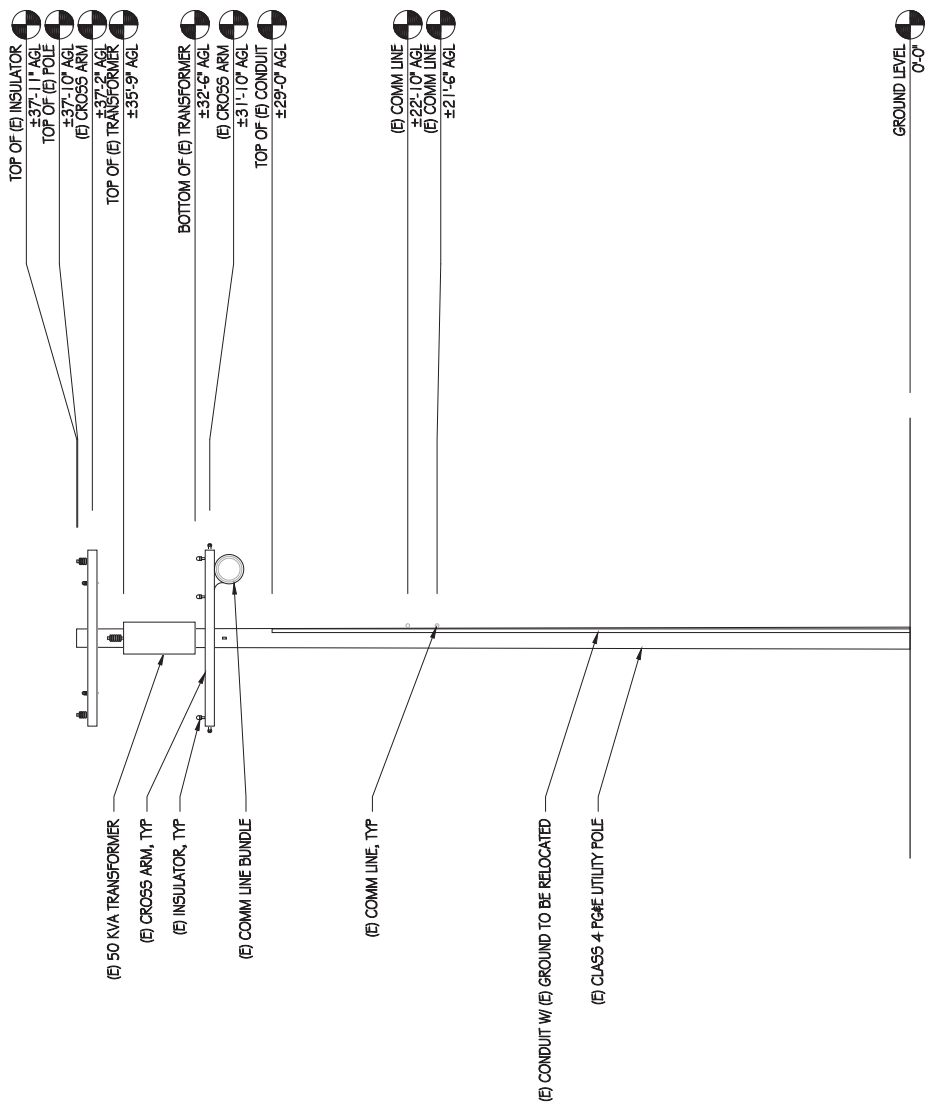
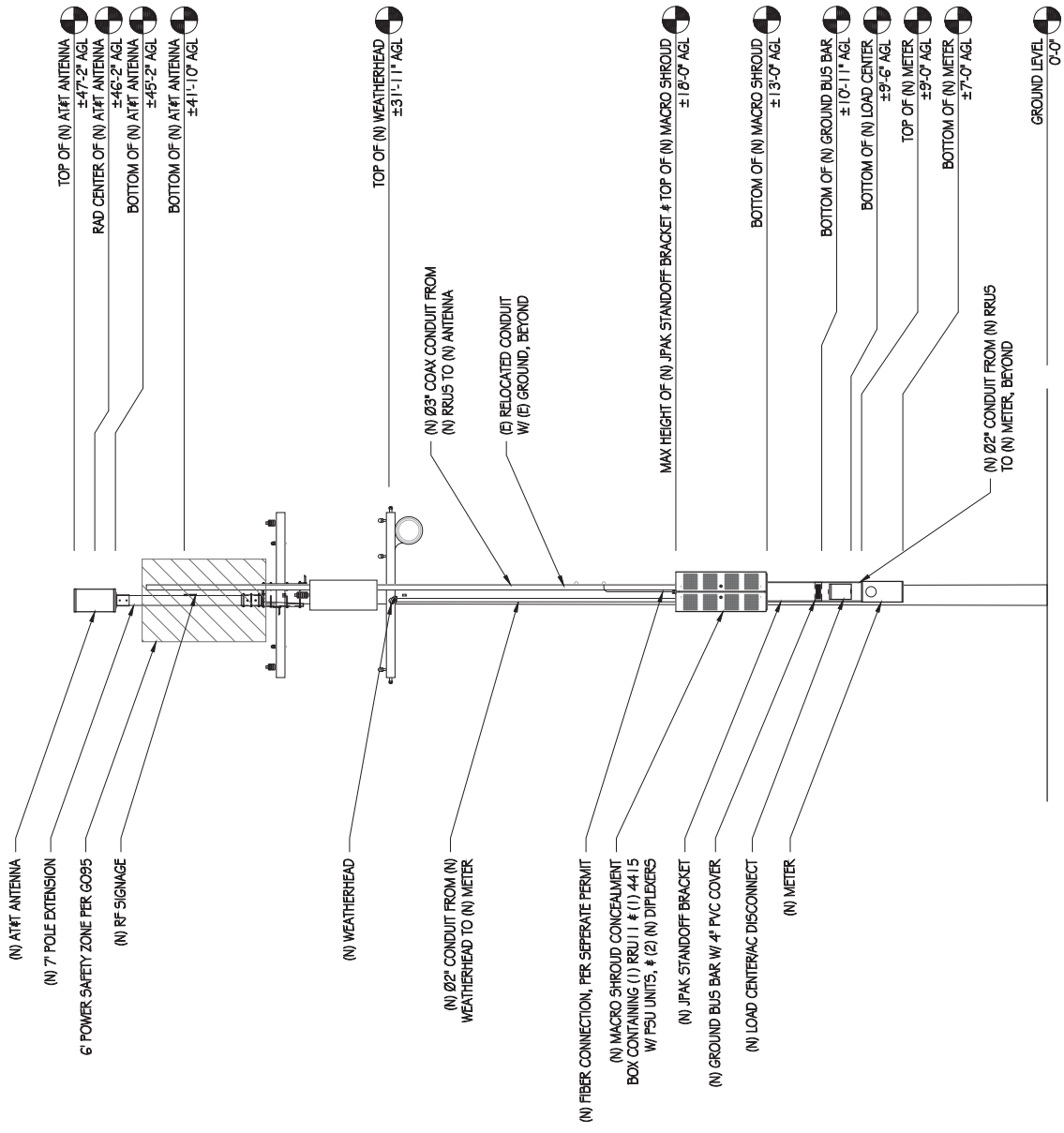
CRAN_RSFR_LOSA0_08
ROW ADJUCT TO 182 GARLAND WAY
LOS AUTOS, CA 94022

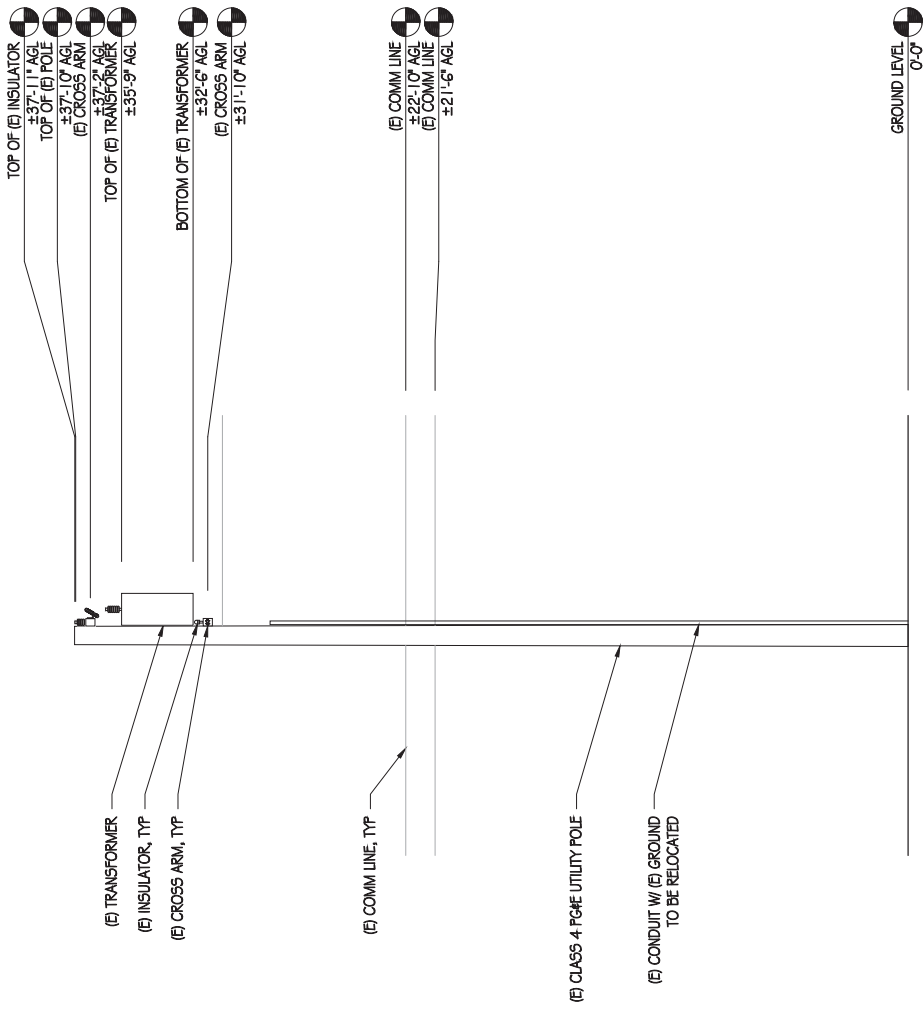
ISSUE STATUS	
DATE	DESCRIPTION
06/20/16	CD 90%
11/01/16	CD 100%

DRAWN BY: T. JONES
CHECKED BY: T. DCARLO
APPROVED BY: B. MCCOMB
DATE: 06/20/16
SHEET TITLE:

ELEVATIONS
SHEET NUMBER

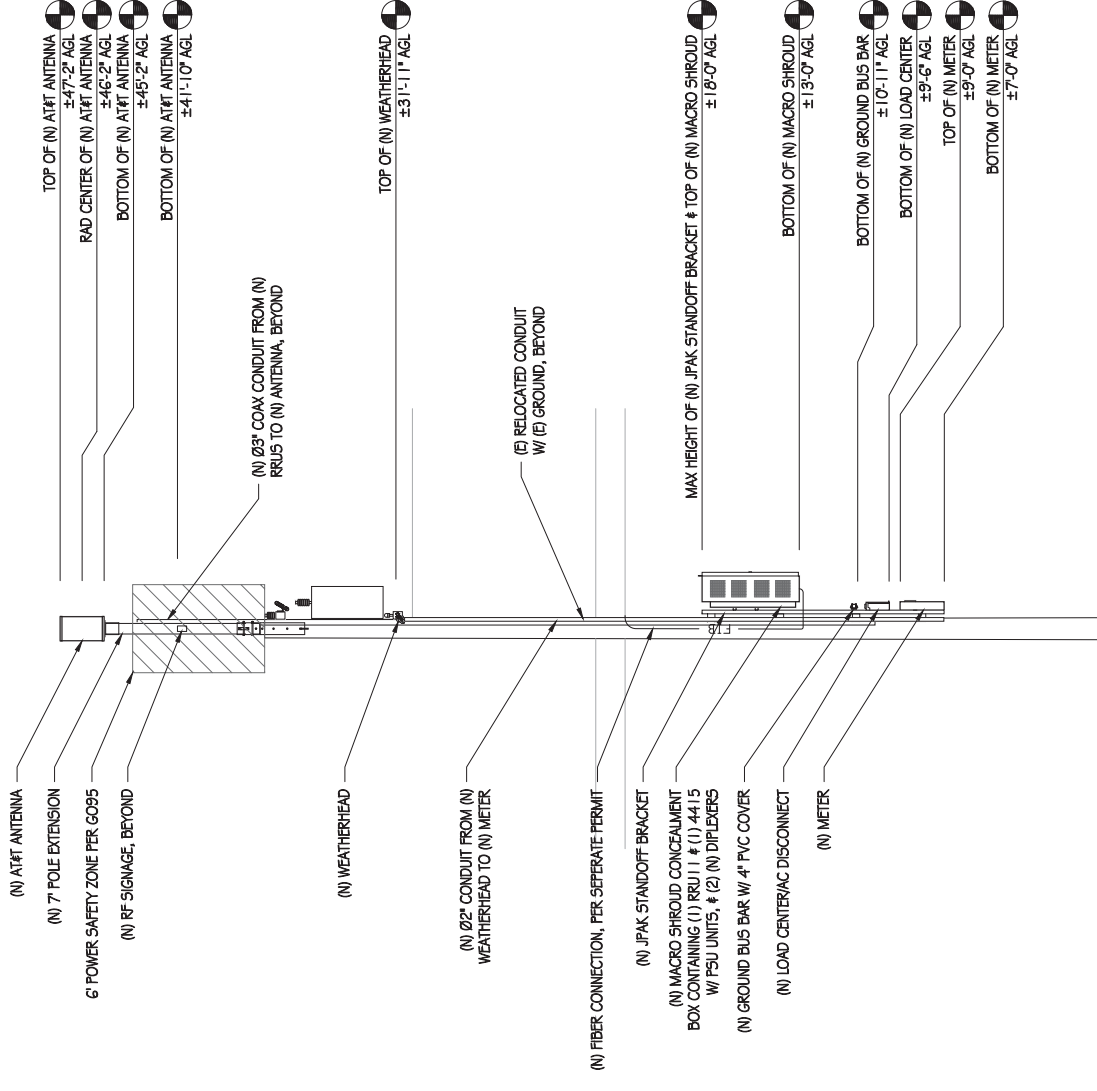
A-3





EXISTING WEST ELEVATION

1/4" = 1'-0"



NEW WEST ELEVATION

1/4" = 1'-0"

NOTE: COMM SERVICE DROPS WILL NEED TO BE RELOCATED TO CLEAR CLIMBING SPACE

ISSUE STATUS	
DATE	DESCRIPTION
06/20/16	CD 90%
11/01/16	CD 100%

DRAWN BY: T. JONES
 CHECKED BY: T. DCARLO
 APPROVED BY: B. McCOMB
 DATE: 06/20/16
 SHEET TITLE:

ELEVATIONS
 SHEET NUMBER

A-4

ART&T MOBILITY
 5001 DECUITNE PARKWAY
 SAN RAMON, CA 94583

Infrastructure experts. Small cell leaders.
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

PRECISION DESIGN & Drafting, Inc.
 11768 Alwood Rd, Suite 20 Auburn, CA 95603
 Phone: (530) 823-6546 www.prdnd.com

REGISTERED PROFESSIONAL ENGINEER
 T. JONES
 C 68881
 STATE OF CALIFORNIA
 CIVIL

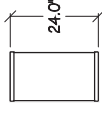
CRAN_RSFR_LOSAO_08
 ROW ADJACT TO 182 GARLAND WAY
 LOS AUTOS, CA 94022

KMW FX-OM2L1OH2-06T

WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø16.0" X 24.0" TALL
 RF CONNECTORS: (1) 4.3-10 FEMALE



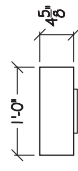
TOP VIEW



FRONT VIEW

1 ANTENNA

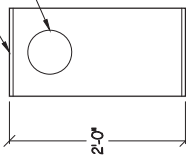
1/2"=1'



TOP VIEW

COOPER B-LINE 114TB ELECTRICAL PANEL TO MEET COMMERCIAL FGAE REQUIREMENTS WITH TEST BYPASS

100 AMP METER

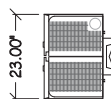


FRONT VIEW

SIDE VIEW

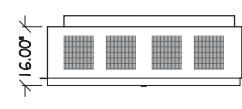
5 METER DETAIL

1"=1'



TOP VIEW

ERICSSON MICRO SHROUD (MFR 901.06)



SIDE VIEW

FRONT VIEW

9 MICRO SHROUD CONCEALMENT

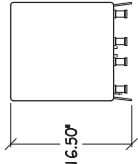
1/2"=1'

ERICSSON RRUS-44 I 5

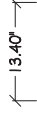
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



SIDE VIEW



FRONT VIEW



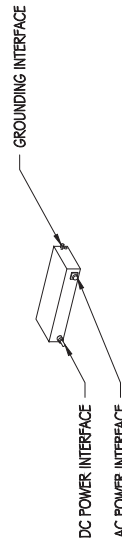
TOP VIEW

2 RRUS-44 I 5 DETAIL

2"=1'

ERICSSON PSU AC 08

DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS

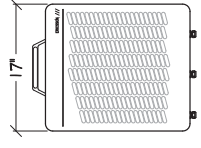


6 AC POWER MODULE

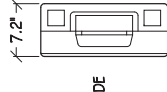
6"=1'

ERICSSON RRUS-1 I

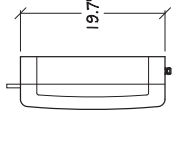
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



FRONT VIEW



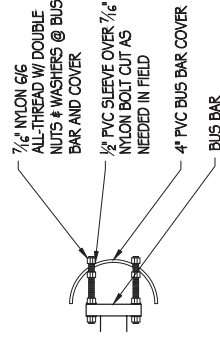
TOP VIEW



SIDE VIEW

3 RRUS-1 I DETAIL

1"=1'

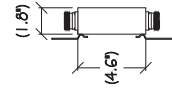


7 BUS BAR COVER

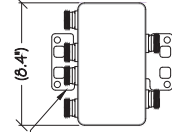
6"=1'

COMMSCOPE CBC1923T-43 I 0/ E11F13P06

COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



SIDE VIEW



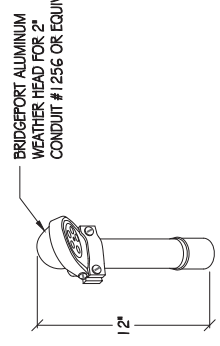
FRONT VIEW



TOP VIEW

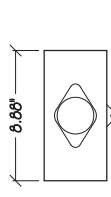
4 DIPLEXER DETAIL

4"=1"



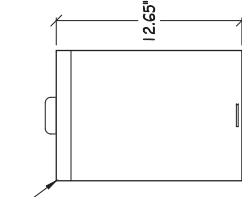
8 WEATHER HEAD

8"=1"

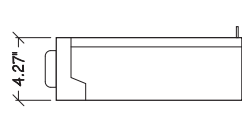


TOP VIEW

SCHNEIDER ELECTRIC 00612L00RB



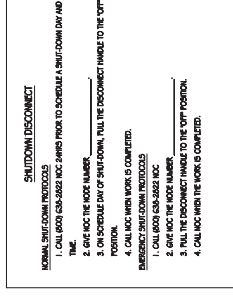
FRONT VIEW



SIDE VIEW

10 LOAD CENTER/AC DISCONNECT

10"=1"



OUTSIDE PANEL DOOR SHOWING DISCONNECT SWITCH ID ON 2X6" PLAQUE

INSIDE PANEL DOOR SHOWING SHUT-DOWN PROTOCOLS

FGAE PAD LOCK

SHUT-DOWN PROTOCOL ON 2X6" PLAQUE

11 DISCONNECT SIGNAGE

3"=1"

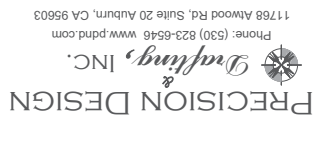
NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT



ART MOBILITY
 5001 DECUITNE PARKWAY
 SAN RAMON, CA 94583



36 DECUITNE PARK, SUITE 210
 IRVINE, CA 92614



11768 Alwood Rd, Suite 20 Auburn, CA 95603
 Phone: (530) 823-6546 www.pdnd.com



CRAN_RSFR_LOSA0_08
 ROW ADJCT TO 182 GARLAND WAY
 LOS AUTOS, CA 94022

ISSUE STATUS

Δ	DATE	DESCRIPTION	CD 90%	CD 100%
	06/20/16		CD 90%	
	11/01/16		CD 100%	

DRAWN BY: T. JONES
 CHECKED BY: T. DCARLO
 APPROVED BY: B. MCCOMB
 DATE: 06/20/16

SHEET TITLE:
 DETAILS
 SHEET NUMBER
A-5

STRUCTURAL STEEL NOTES:

ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.

ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGED & WT TIED SHAPES) TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (S OR H50) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 TYPE E OR S, GRADE B (F_y=35,000 PSI), SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.

ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC & AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.

ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.

BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.

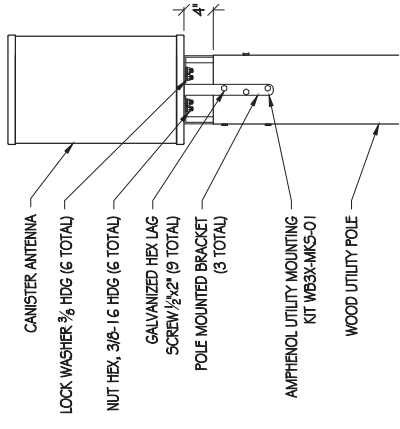
TREADED RODS SHALL BE ASTM F593, CW 304/316, STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.

ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.

ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL OR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.

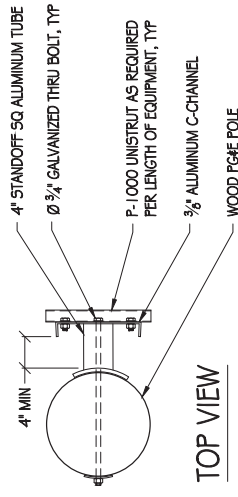
ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COOL GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.

AT ALL WEB STIFFENER PLATES LEAVE 3/16" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.

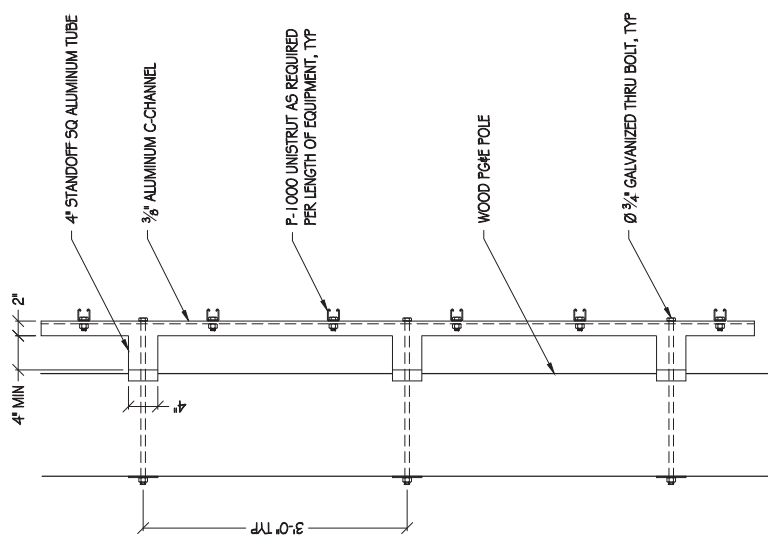


POLE-TOP ANTENNA MOUNT DETAIL

1 1"=1'



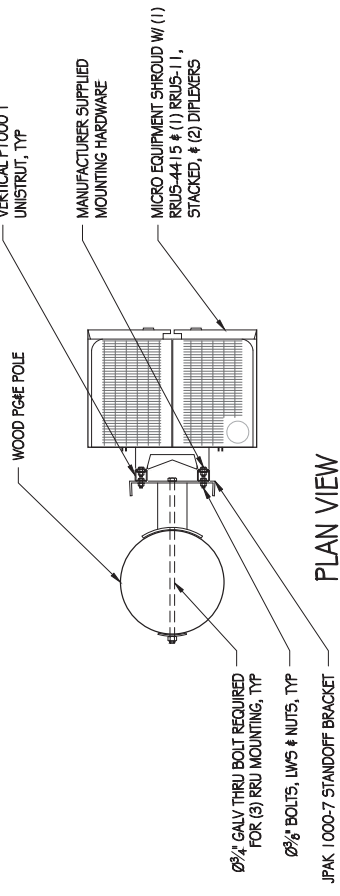
TOP VIEW



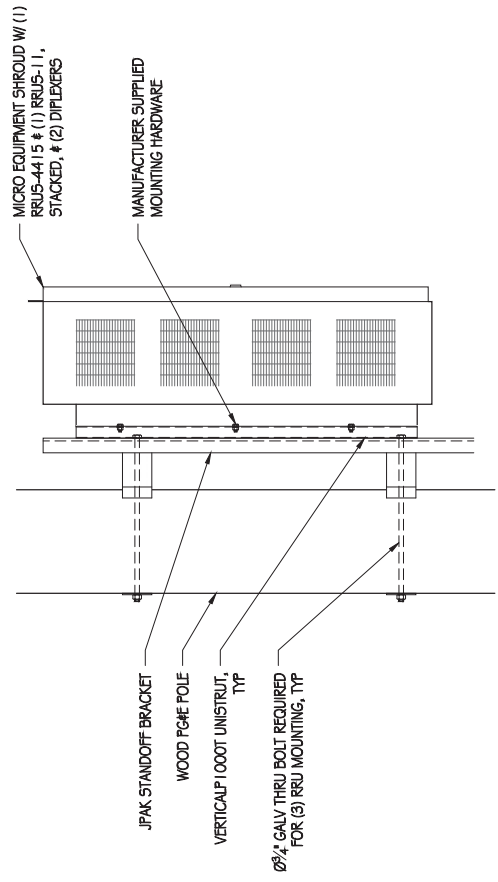
FRONT VIEW

JPAK STANDOFF DETAIL

4 1"=1'



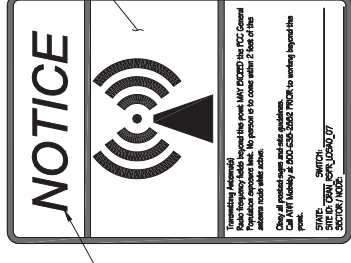
PLAN VIEW



SIDE VIEW

RRU MOUNTING DETAIL

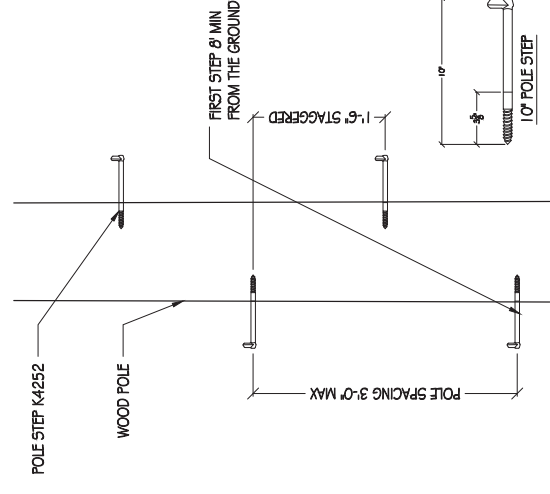
3 1"=1'



NOTICE SIGNAGE

2 NTS

NOTES:
NOTICE IS A VINYL STICKER ADHERED TO POLE



POLE STEP

5 1"=1'

NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



AT&T MOBILITY
5001 DEQUETTE PARKWAY
SAN RAMON, CA 94583



36 DEQUETTE PARK, SUITE 210
IRVINE, CA 92614
Infrastructure experts. Small cell leaders.



11768 Alwood Rd, Suite 20 Auburn, CA 95603
Phone: (530) 823-6546 www.pdnd.com



CRAN_RSFR_LOSA0_08

ROW ADJCT TO 182 GARLAND WAY
LOS AUTOS, CA 94022

ISSUE STATUS

DATE	DESCRIPTION
06/20/16	CD 90%
11/01/16	CD 100%

DRAWN BY: T. JONES

CHECKED BY: T. DCARLO

APPROVED BY: B. MCCOMB

DATE: 06/20/16

SHEET TITLE:

DETAILS

SHEET NUMBER

A-6

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 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.

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 DSS 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 "THWN" CONDUCTORS LARGER AND #6 AWG MAY BE TYPE "OR THWN".

PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATER TIGHT.

UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, SIDAUL ELEMENT FUSES SIZED TO EQUIPMENT. AMPLIATE 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.

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.

OVER AND TELCO NOTES:

POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS 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 ENCASUREMENT 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.

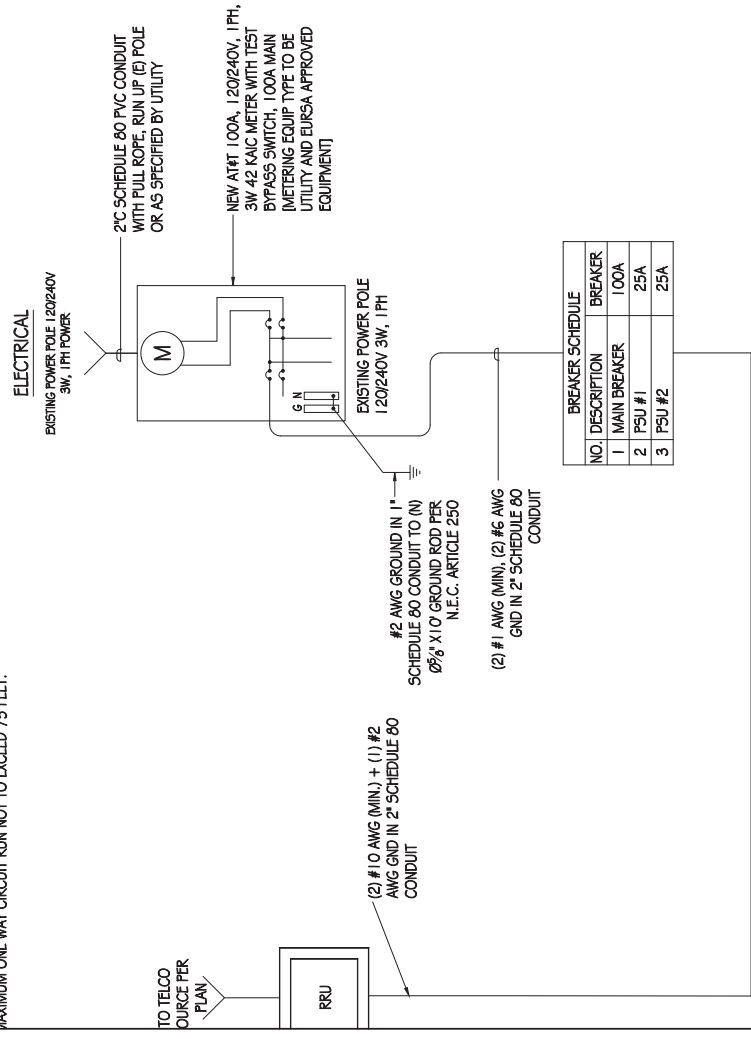
CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/UTILITY CABINET.

ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.

CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.

FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.

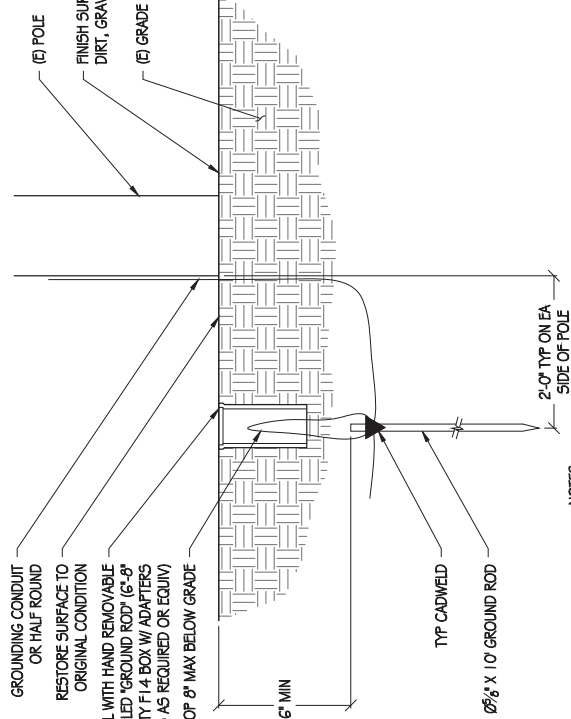
MINIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



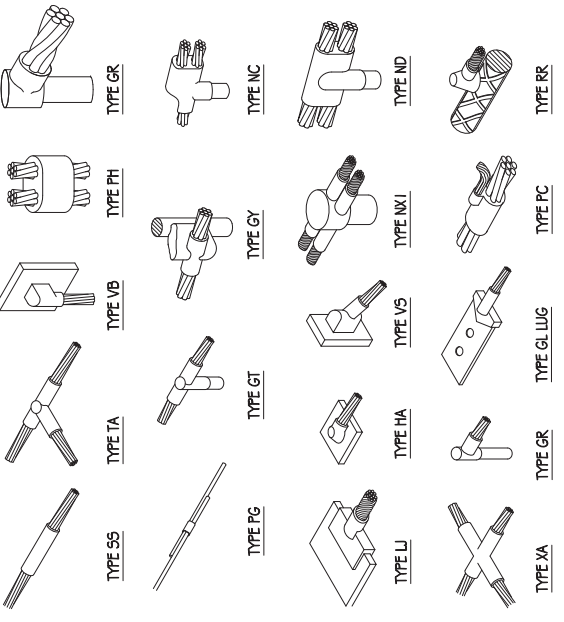
SINGLE-LINE DIAGRAM

LOAD SCHEDULE

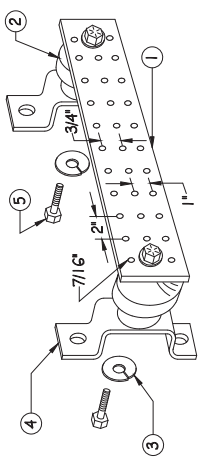
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TWRX	W	HW
ERICSSON RRUS-32	2	RRU	27.0" X 12.0" X 7.0"	50.7 LBS	2T2R	366.63	0.30003
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 6.9" X 4.3"	40 LBS (MAX)	N/A	N/A	N/A



POLE GROUNDING DETAIL

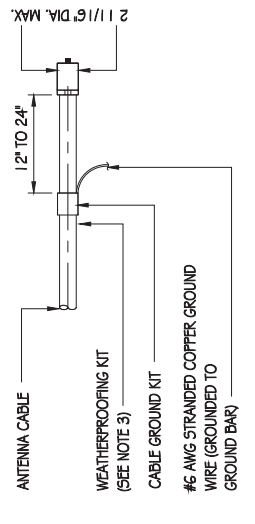


EXOTHERMIC WELD DETAILS



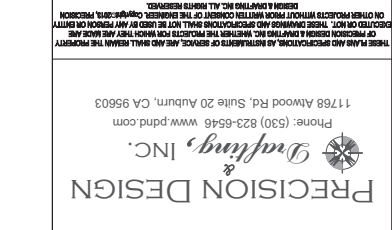
- NOTES:**
- GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
 - 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-9 OR APPROVED EQUAL
 - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6056 OR APPROVED EQUAL
 - 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL
 - INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

GROUND BAR DETAIL



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

GND KIT DETAIL



CRAN_RSFR_LOSAO_08
ROW ADJCT TO 182 GARLAND WAY
LOS AUTOS, CA 94022

ISSUE STATUS

DATE	DESCRIPTION
06/20/16	CD 90%
11/01/16	CD 100%

SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER: **E-1**

DATE: 06/20/16

SHEET TITLE:

DRAWN BY: T. JONES

CHECKED BY: T. DCARLO

APPROVED BY: B. McCOMB

ART MOBILITY
5001 DECIJUTE PARKWAY
SAN RAMON, CA 94583

36 DECIJUTE PARK, SUITE 210
RIVINE, CA 92614

11768 Alwood Rd, Suite 20 Auburn, CA 95603
Phone: (530) 823-6546 www.pdnd.com

PRECISION DESIGN & ENGINEERING, INC.
11768 Alwood Rd, Suite 20 Auburn, CA 95603
Phone: (530) 823-6546 www.pdnd.com

VINCENT A. MCCOMB
REGISTERED PROFESSIONAL ENGINEER
C 68881
STATE OF CALIFORNIA

CRAN_RSFR_LOSAO_08
ROW ADJCT TO 182 GARLAND WAY
LOS AUTOS, CA 94022

ISSUE STATUS

DATE	DESCRIPTION
06/20/16	CD 90%
11/01/16	CD 100%

SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER: **E-1**

DATE: 06/20/16

SHEET TITLE:

DRAWN BY: T. JONES

CHECKED BY: T. DCARLO

APPROVED BY: B. McCOMB

ART MOBILITY
5001 DECIJUTE PARKWAY
SAN RAMON, CA 94583

36 DECIJUTE PARK, SUITE 210
RIVINE, CA 92614

PRECISION DESIGN & ENGINEERING, INC.
11768 Alwood Rd, Suite 20 Auburn, CA 95603
Phone: (530) 823-6546 www.pdnd.com

VINCENT A. MCCOMB
REGISTERED PROFESSIONAL ENGINEER
C 68881
STATE OF CALIFORNIA

CRAN_RSFR_LOSAO_08
ROW ADJCT TO 182 GARLAND WAY
LOS AUTOS, CA 94022

ISSUE STATUS

DATE	DESCRIPTION
06/20/16	CD 90%
11/01/16	CD 100%

SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER: **E-1**

DATE: 06/20/16

SHEET TITLE:

DRAWN BY: T. JONES

CHECKED BY: T. DCARLO

APPROVED BY: B. McCOMB



AT&T MOBILITY
5001 DECUITTE PARKWAY
SAN RAMON, CA 94583



36 DECUITTE PARK, SUITE 210
RIVINE, CA 92614

Infrastructure experts. Small cell leaders.



11768 Alwood Rd, Suite 20 Auburn, CA 95603
Phone: (530) 823-6546 www.pdnd.com

PRECISION DESIGN & DRAFTING, INC. IS AN EQUAL OPPORTUNITY EMPLOYER. ALL RIGHTS RESERVED.
THIS PLAN AND SPECIFICATIONS, AS REVISED OR SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC.



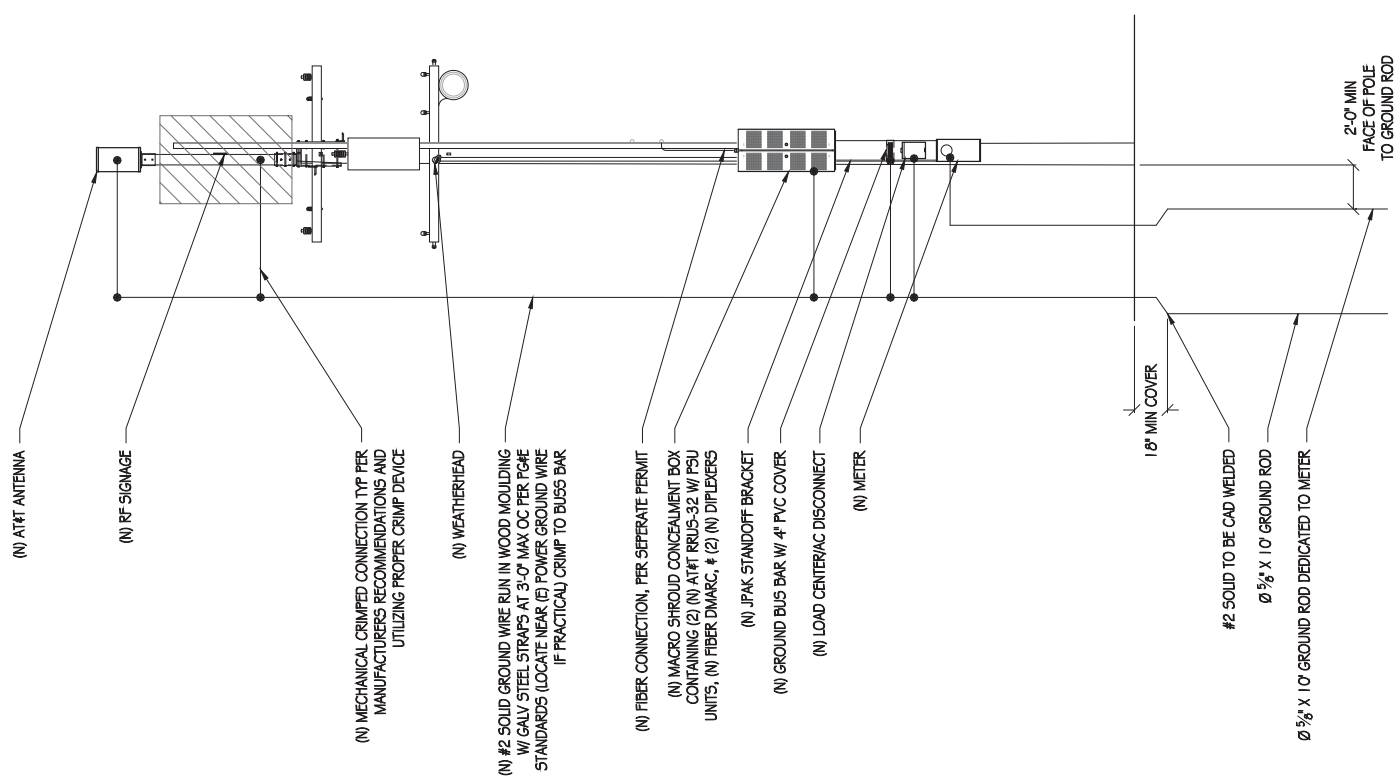
CRAN_RSFR_LOSAO_08
ROW ADJUCT TO 182 GARLAND WAY
LOS AUTOS, CA 94022

ISSUE STATUS	
DATE	DESCRIPTION
06/20/16	CD 90%
11/01/16	CD 100%

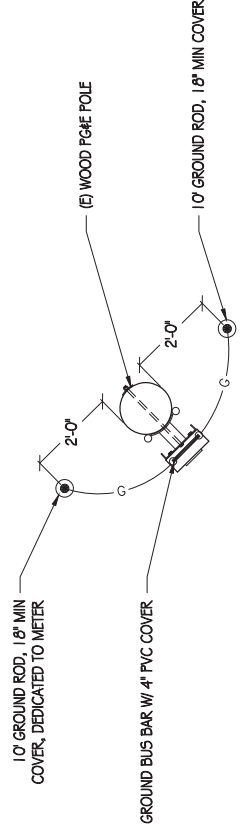
DRAWN BY: T. JONES
CHECKED BY: T. DCARLO
APPROVED BY: B. McCOMB
DATE: 06/20/16
SHEET TITLE:

GROUNDING DIAGRAMS
SHEET NUMBER

E-2



POLE GROUNDING DIAGRAM
NTS



GROUNDING PLAN
NTS



at&t

SITE ID:
SITE ADDRESS:

CRAN_RSFR_LOSAO_08
182 GARLAND WAY
LOS ALTOS, CA 94022

PM#:
SITE TYPE:
POLE OWNER:
FA LOCATION:
USID:

114474409
PG&E POLE #TBD
PG&E
14816597
198289



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

SITE INFORMATION

APPLICANT: AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

AGENT: SURESITE
36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

APN: ADJCT TO 167-30-029

SITE ADDRESS: 182 GARLAND WAY
LOS ALTOS, CA 94022

COUNTY: SANTA CLARA

LATITUDE: 37° 23' 04.48" N (37.3845778) NAD 83

LONGITUDE: 122° 06' 56.78" W (-122.1157722) NAD 83

GROUND ELEVATION: ± 156.4' AMSL

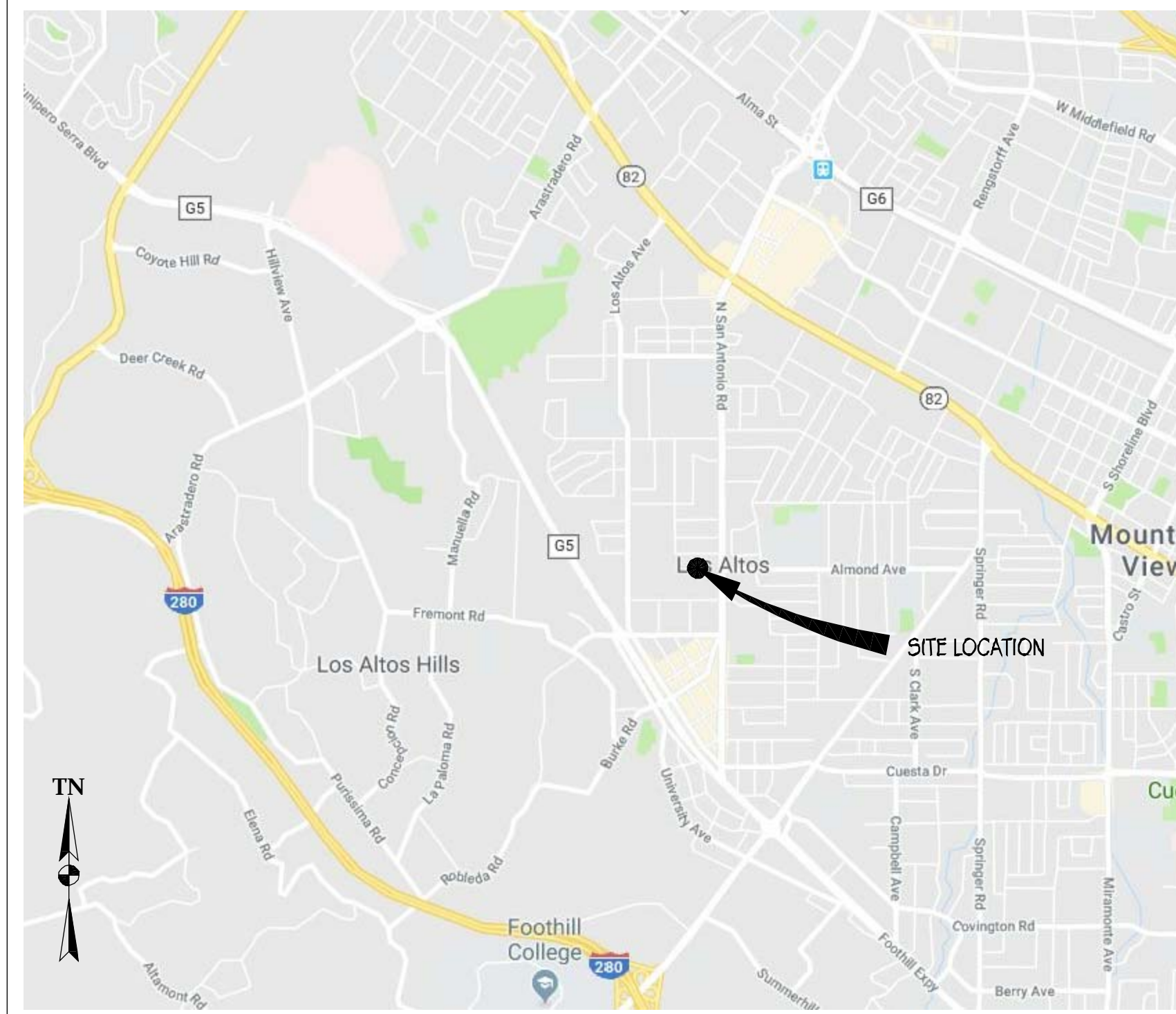
ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

POLE SAP ID: 100512879

STREET CLASSIFICATION: LOCAL

VICINITY MAP



PROJECT TEAM

AGENT:
SURESITE
2033 GATEWAY PLACE, 6TH FLOOR
SAN JOSE, CA 95110
(949) 278-2962
L.MEINERS@SURE-SITE.COM

PROJECT MANAGERS:
CHRIS JOHNSON
ERICSSON
6140 STONERIDGE MALL RD, SUITE 350
PLEASANTON, CA 94588
(408) 796-8443
CHRISTOPHER.JOHNSON@ERICSSON.COM

ARCHITECT/ENGINEER OF RECORD:
BRET McCOMB
PRECISION DESIGN & DRAFTING, INC
11768 ATWOOD ROAD, SUITE #20
AUBURN, CA 95603
(530) 823-6546
BRET@PDND.COM

CONSTRUCTION MANAGER:
DELBERT BUTCHER
ERICSSON
6140 STONERIDGE MALL ROAD, SUITE 350
PLEASANTON, CA 94588
(720) 317-7282

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT ON AN (E) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK:

1. INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON G095 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRU5-4415 & (1) RRU5-11 W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L1OH2-0GT CYLINDRICAL ANTENNA.
2. ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL.
3. UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.
4. FIBER CONNECTION TO BE SECURE UNDER SEPARATE ENCROACHMENT PERMIT.

DRAWING INDEX

SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
T-2	GENERAL NOTES, LEGEND, & ABBREVIATIONS
A-1	SITE PLAN
A-2	EQUIPMENT PLAN & ANTENNA PLANS
A-3	ELEVATIONS
A-4	ELEVATIONS
A-5	DETAILS
A-6	DETAILS
E-1	SINGLE-LINE DIAGRAM & DETAILS
E-2	GROUNDING DIAGRAMS
TR-1	TRAFFIC CONTROL PLAN

CODE COMPLIANCE

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

1. 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
2. 2016 CALIFORNIA BUILDING CODE
3. 2016 CALIFORNIA ELECTRICAL CODE
4. 2016 CALIFORNIA MECHANICAL CODE
5. 2016 CALIFORNIA PLUMBING CODE
6. 2016 CALIFORNIA FIRE CODE
7. LOCAL BUILDING CODES
8. CITY/COUNTY ORDINANCES
9. ANSI/EIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
TO: 182 GARLAND WAY, LOS ALTOS, CA 94022

1. HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR 256 FT
2. TURN RIGHT ONTO SUNSET DR 0.1 MI
3. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI
4. USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI
5. MERGE ONTO I-680 S 21.5 MI
6. TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-880 0.2 MI
7. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO CA-262 MISSION BLVD 0.3 MI
8. MERGE ONTO CA-262 MISSION BLVD 0.6 MI
9. USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD INTERSTATE 880 S/SAN JOSE 0.9 MI
10. MERGE ONTO I-880 S 3.1 MI
11. USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW 0.9 MI
12. CONTINUE ONTO CA-237 W 8.4 MI
13. KEEP LEFT TO CONTINUE ON CA-237 W/SOUTHBAY FWY 0.5 MI
14. TURN RIGHT ONTO EL CAMINO REAL 1.4 MI
15. USE THE LEFT 2 LANES TO TURN LEFT ONTO EL MONTE AVE 266 FT
16. USE ANY LANE TO TURN LEFT TO STAY ON EL MONTE AVE 0.3 MI
17. TURN RIGHT ONTO N EL MONTE AVE 0.1 MI
18. TURN RIGHT ONTO ALMOND AVE 0.9 MI
19. TURN LEFT ONTO N SAN ANTONIO RD 0.1 MI
20. TURN RIGHT AT THE 1ST CROSS STREET ONTO MT HAMILTON AVE 433 FT
21. TURN RIGHT ONTO GARLAND WAY 469 FT

END AT: 182 GARLAND WAY, LOS ALTOS, CA 94022
ESTIMATED TIME: 53 MINS ESTIMATED DISTANCE: 40.4 MI



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" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603



CRAN_RSFR_LOSAO_08

182 GARLAND WAY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/20/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T. JONES
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:

TITLE SHEET

SHEET NUMBER

T-1

GENERAL CONSTRUCTION NOTES

- PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC/LCBCS REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYORS MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IS ANY DISCREPANCY IS FOUND BETWEEN THE CAREOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.

9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.

10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.

11. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.

12. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED/ DISRUPTED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.

13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

14. INCLUDE MISC ITEMS PER A/T/W WIRELESS SPECIFICATIONS.

15. ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHUTDOWN SIGNALS) OR PG&E REGULATIONS SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED LOGOS OR TEXT ON EQUIPMENT (E.G. RUGS), IF PRESENT, TO BE SANDED OFF OR COVERED WITH STICKER, & THEN PAINTED OVER.

16. FOUNDED RF WAC MARKING SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD THE BUILDING IF THERE IS NO WINDOW.

17. ALL EQUIPMENT, INCLUDING ANTENNAS, MOUNTING STANDOFF BRACKETS, POLE EXTENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED MESA BROWN USING A DURABLE OUTDOOR PAINT.

18. CABLING SHALL BE MESA BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS, & SHALL BE HIDDEN FROM VIEW TO THE MAXIMUM EXTENT POSSIBLE.

19. SUPPORT EQUIPMENT (E.G. METERS, DISCONNECT SWITCH, ETC) TO BE CLUSTERED VERTICALLY AS CLOSE AS TECHNICALLY FEASIBLE ON POLE.

SYMBOLS LEGEND

	NEW ANTENNA		GROUT OR PLASTER
	EXISTING ANTENNA		(E) BRICK
	GROUND ROD		(E) MASONRY
	GROUND BUSS BAR		CONCRETE
	MECHANICAL GRND. CONN.		EARTH
	GROUND ACCESS WELL		GRAVEL
	ELECTRIC BOX		PLYWOOD
	TELEPHONE BOX		SAND
	LIGHT POLE		WOOD CONT.
	PND. MONUMENT		WOOD BLOCKING
	SPOT ELEVATION		STEEL
	SET POINT		CENTERLINE
	REVISION		PROPERTY RELEASE LINE
	GRID REFERENCE		MATCH LINE
	DETAIL REFERENCE		WORK POINT
	ELEVATION REFERENCE		GROUND CONDUCTOR
	SECTION REFERENCE		COAX
			OVERHEAD SERVICE CONDUCTORS
			CHAIN LINK FENCING
			OVERHEAD TELEPHONE/OVERHEAD POWER
			OHT
			OHP
			POWER RUN

GENERAL NOTES FOR EXISTING CELL SITES

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

APPLICABLE CODES, REGULATIONS, AND STANDARDS

- CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
 - INSTITUTION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT
 - IEEE C62.4.1, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
 - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
 - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
 - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
 - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
 - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
 - FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

- MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
- ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED.
- IN STREET SURFACE TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- IN DIRT SLURRY 1" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BATTERY
- WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #1 & 2 WARNING TAPE ABOVE RING.

GENERAL GROUNDING NOTES

- 5/8" x 10' ROD, CAD WELD BELOW GRADE
- GROUND TESTED AT 5 OHMS OR LESS.
- #2 GROUND AND BOND WIRE
- GROUND 2' MIN FROM POLE.
- PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBD OR STRONG BOX.
- WOOD MOULDING, STAPLED EVERY 3" AND AT EACH END, UNLESS OTHERWISE NOTED.

GENERAL CONDUIT NOTES

- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE.
- 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
- CONTRACTOR TO STUB UP POLE 10" w/ 3" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 3" STUBS SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.

TYPICAL R.O.W. POLE CONSTRUCTION NOTES

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

ABBREVIATIONS

A	AMPERE	HT	HEIGHT
AB	ANCHOR BOLT	ICB	ISOLATED COPPER GROUND BUSH
ABY	ABOVE	IN, (I)	INCHES
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT	INTERIOR
ADD	ADDITIONAL	LB, (L)	POUNDS
AFP	ABOVE FINISHED FLOOR	LAG	LAG BOLTS
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET (FOOT)
AFC	AMPERE INTERRUPTING CAPACITY	LTH	LENGTH
ALUM	ALUMINUM	LTL	LONGITUDINAL
ALT	ALTERNATE	LP5	LOW PRESSURE SODIUM
ANT	ANTENNA	MAS	MASONRY
APPROX	APPROXIMATELY	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MB	MACHINE BOLT
J	AMPERE TAP	MCH	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MFR	MANUFACTURER
BATT	BATTERY	MIN	MINIMUM
BD	BOARD	MISC	MISCELLANEOUS
BLDG	BUILDING	MN	MAIN LUGS ONLY
BLC	BLOCK	MNTD	MOUNTED
BULDG	BUILDING	MNTG	MOUNTING
BW	BEAM	MTL	METAL
BN	BOUNDARY NAILING	MTS	MANUAL TRANSFER SWITCH
BR	BREAKER	N	NEUTRAL
BRKR	BREAKER	NI	NEW
BTOW	BARE TINNED COPPER WIRE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BTS	BASE TRANSMISSION SYSTEM	NO, (N)	NUMBER
BOF	BOTTOM OF FOOTING	NTS	NOT TO SCALE
BU	BACK-UP CABINET	OH	OVERHEAD
C	CONDUIT	OC	ON CENTER
CAB	CABINET	OPNG	OPENING
CANT	CANTILEVERED	P	POLE
CB	CIRCUIT BREAKER	PC	PRECAST CONCRETE
CP	CAST IN PLACE	PCCS	PERSONAL COMMUNICATION SERVICES
CR	CIRCUIT	PH	PHASE
CLG	CLEARING	PLY	PLYWOOD
CLR	CLEAR	PNLD	PANELBOARD
CO	COLUMN	PFC	POWER PROTECTION CABINET
CONC	CONCRETE	PFR	PRIMARY RADIO CABINET
CONN	CONNECTION(OR)	PRM	PRIMARY
CONST	CONSTRUCTION	PPF	POUNDS PER SQUARE FOOT
CONT	CONTINUED	PSI	POUNDS PER SQUARE INCH
J	POINNY (NAILS)	PT	PRESSURE TREATED
DBL	DOUBLE	PKR	POWER (CABINET)
DEM	DEMAND	QTY	QUANTITY
DEPT	DEPARTMENT	RAD, (R)	RADIUS
DEPT	DEPARTMENT	RCPT	RECEPTACLE
DM	DIAMETER	RFS	REFLECTOR
DIA	DIAGONAL	REIN	REINFORCEMENT(ING)
DIM	DIMENSION	REQD	REQUIRED
DWG	DRAWINGS	RIGD	RIGID GALVANIZED STEEL
DWL	DOWELS	SAF	SAFETY
EA	EACH	SCH	SCHEDULE
EGR	EMERGENCY GENERATOR RECEPTACLE	SCH	SOFT DRAWN BARE COPPER
EL	ELEVATION	SEC	SECONDARY
ELEC	ELECTRICAL	SHT	SHEET
ELEV	ELEVATION	SIM	SIMILAR
EMT	ELECTRICAL METALLIC TUBING	SN	SOLID NEUTRAL
EN	EDGE NAIL	SPEC	SPECIFICATIONS
ENCL	ENCLOSURE	SQ	SQUARE
ENGR	ENGINEER	SS	STAINLESS STEEL
EQ	EQUAL	STD	STANDARD
EQS	EQUALS	STL	STEEL
EXST, (D)	EXISTING	STRUC	STRUCTURAL
EXP	EXPANSION	SURF	SURFACE
EXT	EXTENSION	SW	SWITCH
FAB	FABRICATION(OR)	TEL	TELEPHONE
FAC	FACTOR	TEMP	TEMPORARY
FA	FIRE ALARM	THICK	THICKNESS
FF	FINISH FLOOR	TN	TIE NAIL
FG	FINISH GRADE	TOA	TOP OF ANTENNA
FN	FINISHED	TOC	TOP OF CURB
FLR	FLOOR	TOP	TOP OF FOUNDATION
FLUOR	FLUORESCENT	TOP	TOP OF PLATE (PARAPET)
FM	FOUNDATION	TOP	TOP OF CONCRETE
FOM	FACE OF MASONRY	TOP	TOP OF STEEL
FOS	FACE OF STUD	TOW	TOP OF WALL
FOW	FACE OF WALL	TP	TYPICAL
FT, (F)	FINISH SURFACE	UG	UNDER GROUND
FT, (F)	FOOT (FEET)	UL	UNDERWRITERS LABORATORY INC.
FTG	FOOTING	UNO	UNLESS NOTED OTHERWISE
FU	FUSE	VOL	VOLT
G	GROUND	VAC	VOLTS ALTERNATING CURRENT
GR	GROUND (CABINET)	VIF	VERIFY IN FIELD
GA	GAUGE	W	WAIT OR WIRE
GEN	GENERATOR	WD	WIDTH
GALV	GALVANIZED	WI	WITH
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WO	WOOD
GLB	GLUE LAMINATED BEAM	WP	WEATHERPROOF
GND	GROUND	WT	WEIGHT
GPS	GLOBAL POSITIONING SYSTEM	XFR	TRANSFER
GRD	GROUND	XTRM	TRANSFORMER
HDC	HARD DRAWN COPPER WIRE	C	CENTERLINE
HDG	HOT-DIP GALVANIZED	E	PLATE
HDR	HEADER		
HGR	HANGER		
HPS	HIGH PRESSURE SODIUM		



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdrd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS OR INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN. NO REPRODUCTION OR TRANSMISSION OF ANY KIND IS PERMITTED WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN. ANY VIOLATION SHALL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.



CRAN_RSFR_LOSAO_08

182 GARLAND WAY
LOS ALTOS, CA 94022

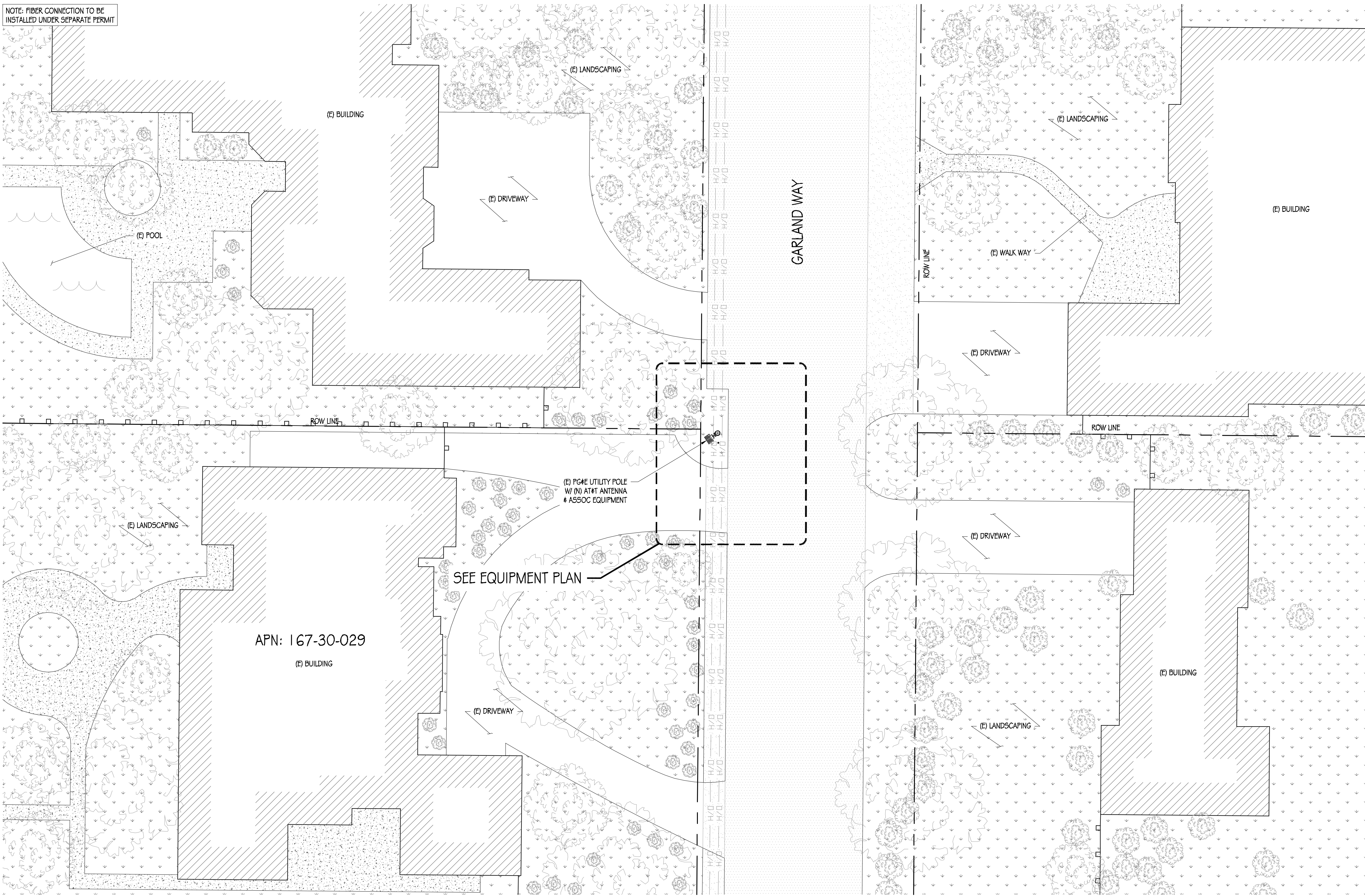
ISSUE STATUS

△	DATE	DESCRIPTION
	06/20/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T. JONES
CHECKED BY: T. D'CARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:
GENERAL NOTES, LEGEND,
& ABBREVIATIONS
SHEET NUMBER
T-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



APN: 167-30-029
(E) BUILDING

SEE EQUIPMENT PLAN



SITE PLAN



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE TO REMAIN THE PROPERTY OF PRECISION DESIGN AND SHALL BE RETURNED TO PRECISION DESIGN UPON COMPLETION OF THE PROJECT. THESE PLANS AND SPECIFICATIONS SHALL NOT BE USED FOR ANY OTHER PROJECT OR IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF PRECISION DESIGN. COPYRIGHT © 2011 PRECISION DESIGN. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_08

182 GARLAND WAY
LOS ALTOS, CA 94022

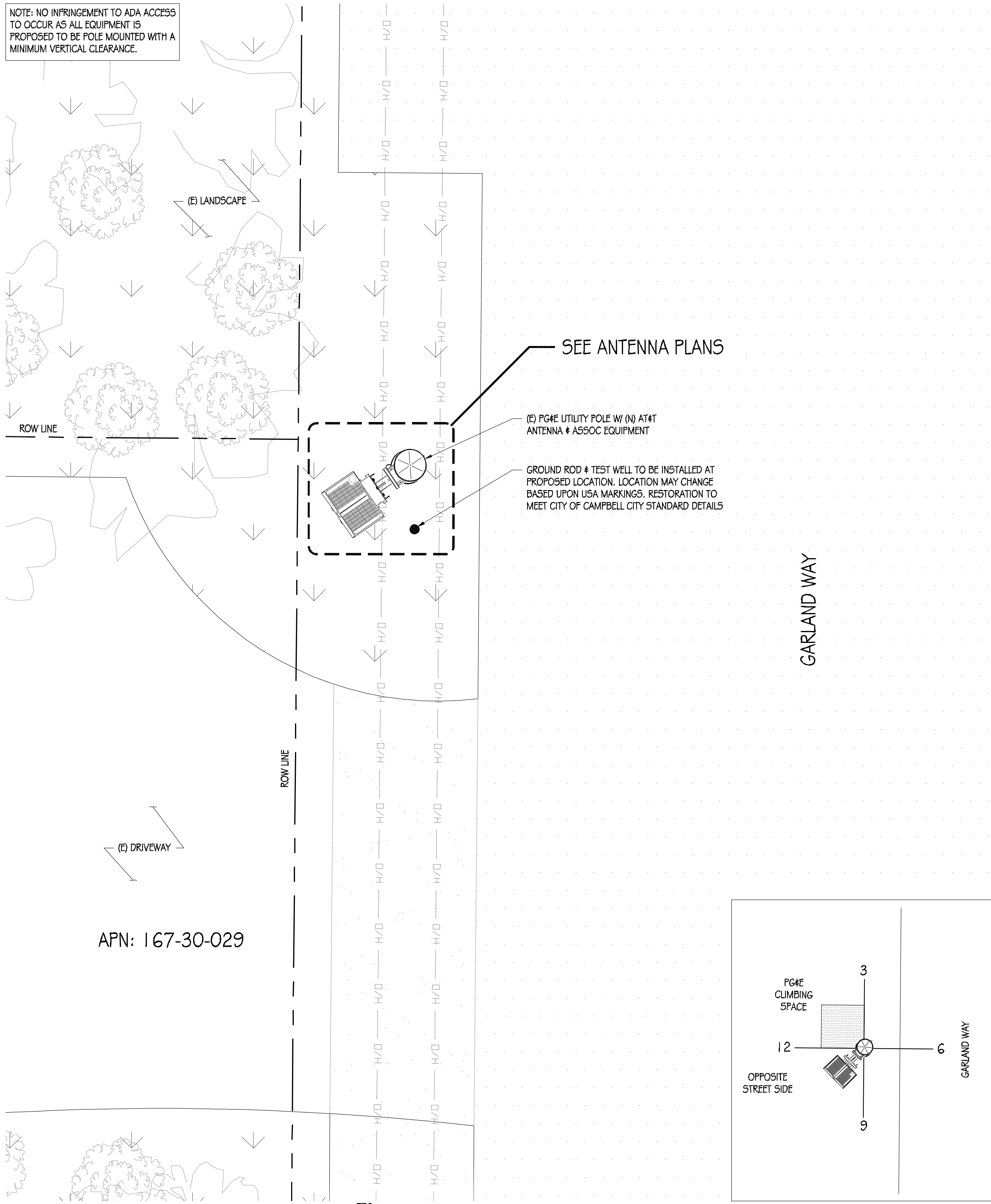
ISSUE STATUS

△	DATE	DESCRIPTION
	06/20/18	CD 90%
	07/25/19	CD 100%

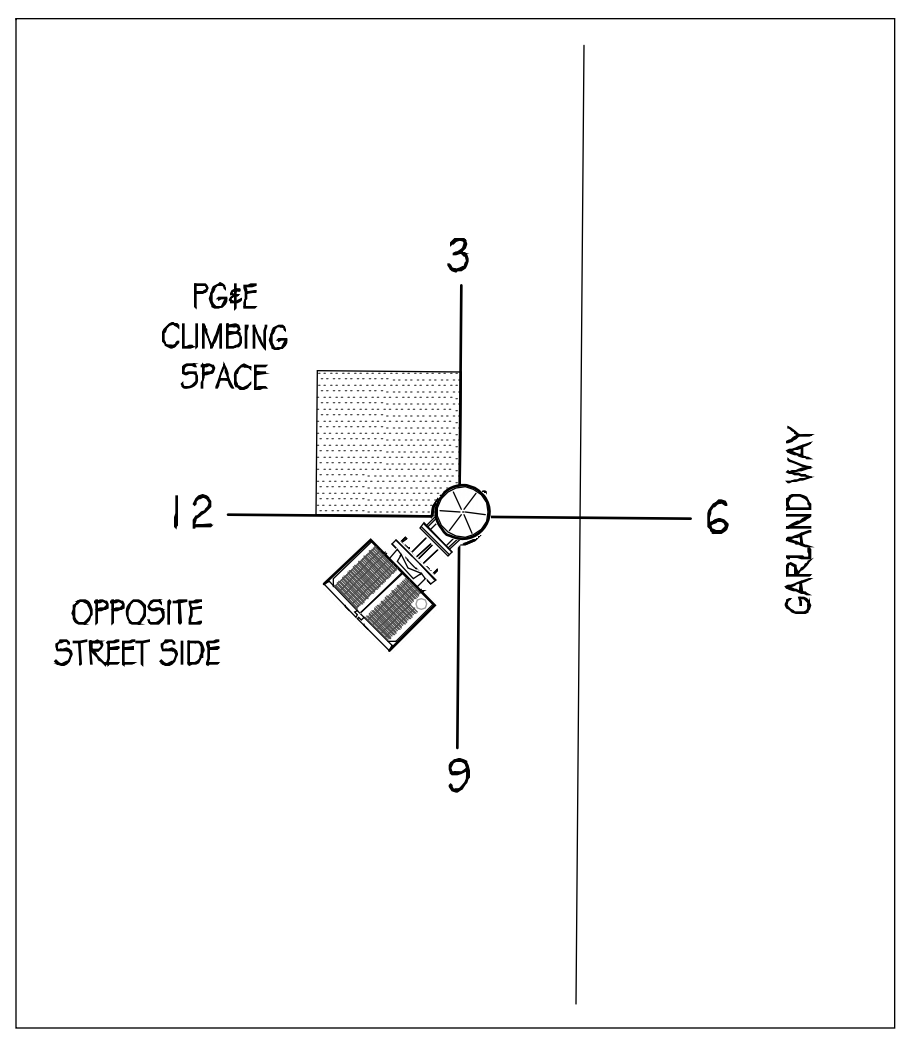
DRAWN BY: T. JONES
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:
SITE PLAN
SHEET NUMBER:
A-1

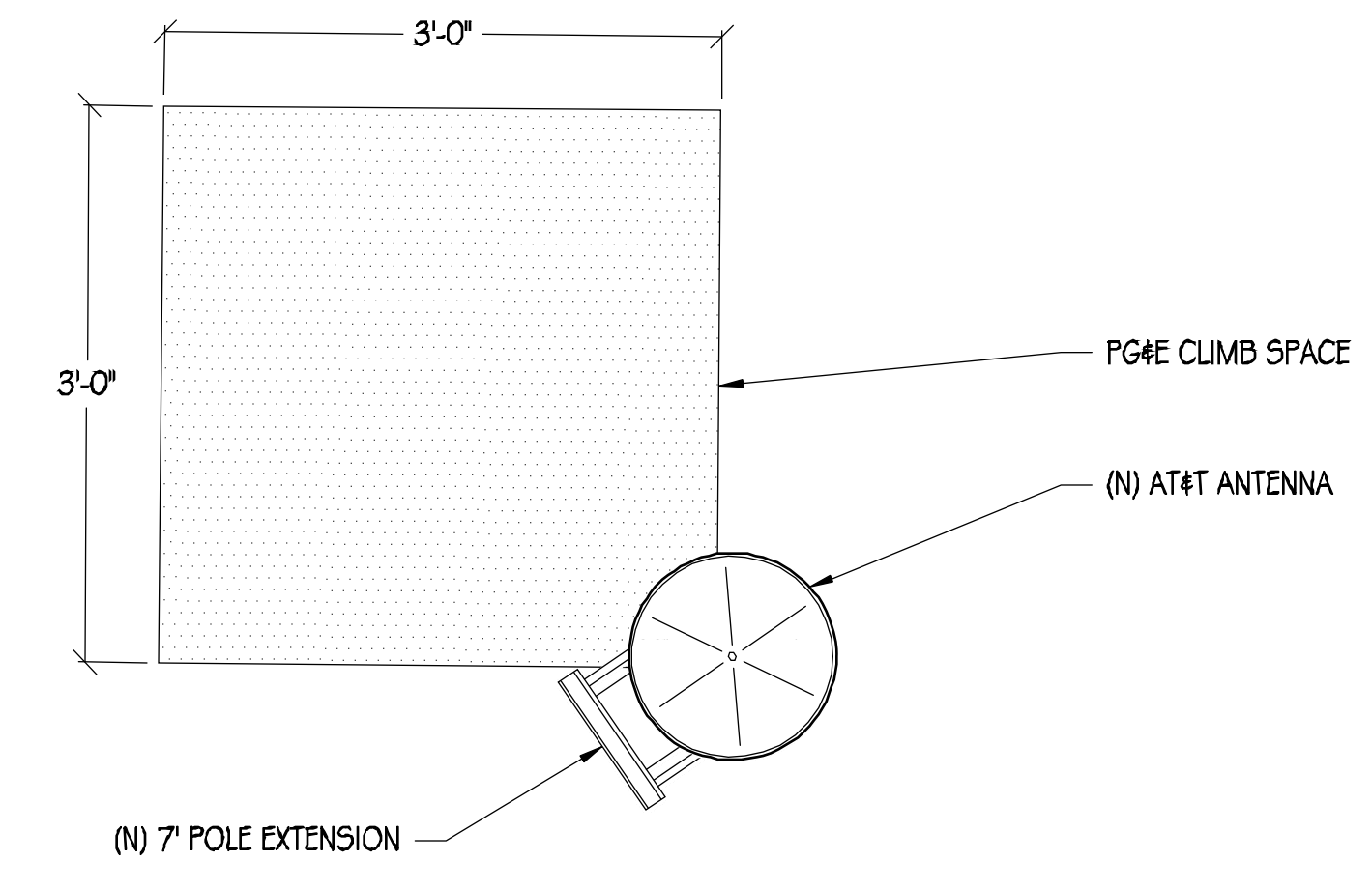
NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.



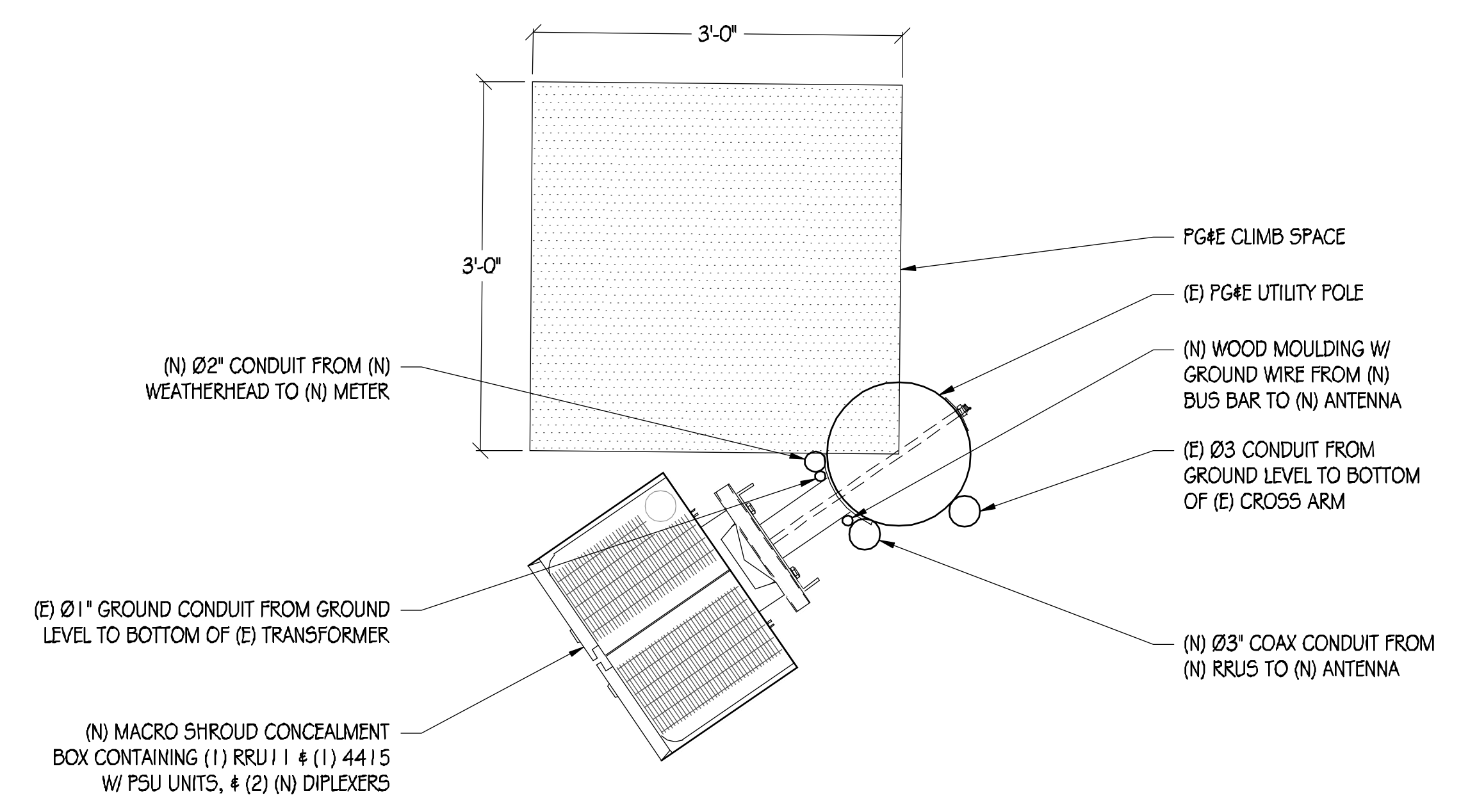
TN
1/2"=1'
EQUIPMENT PLAN



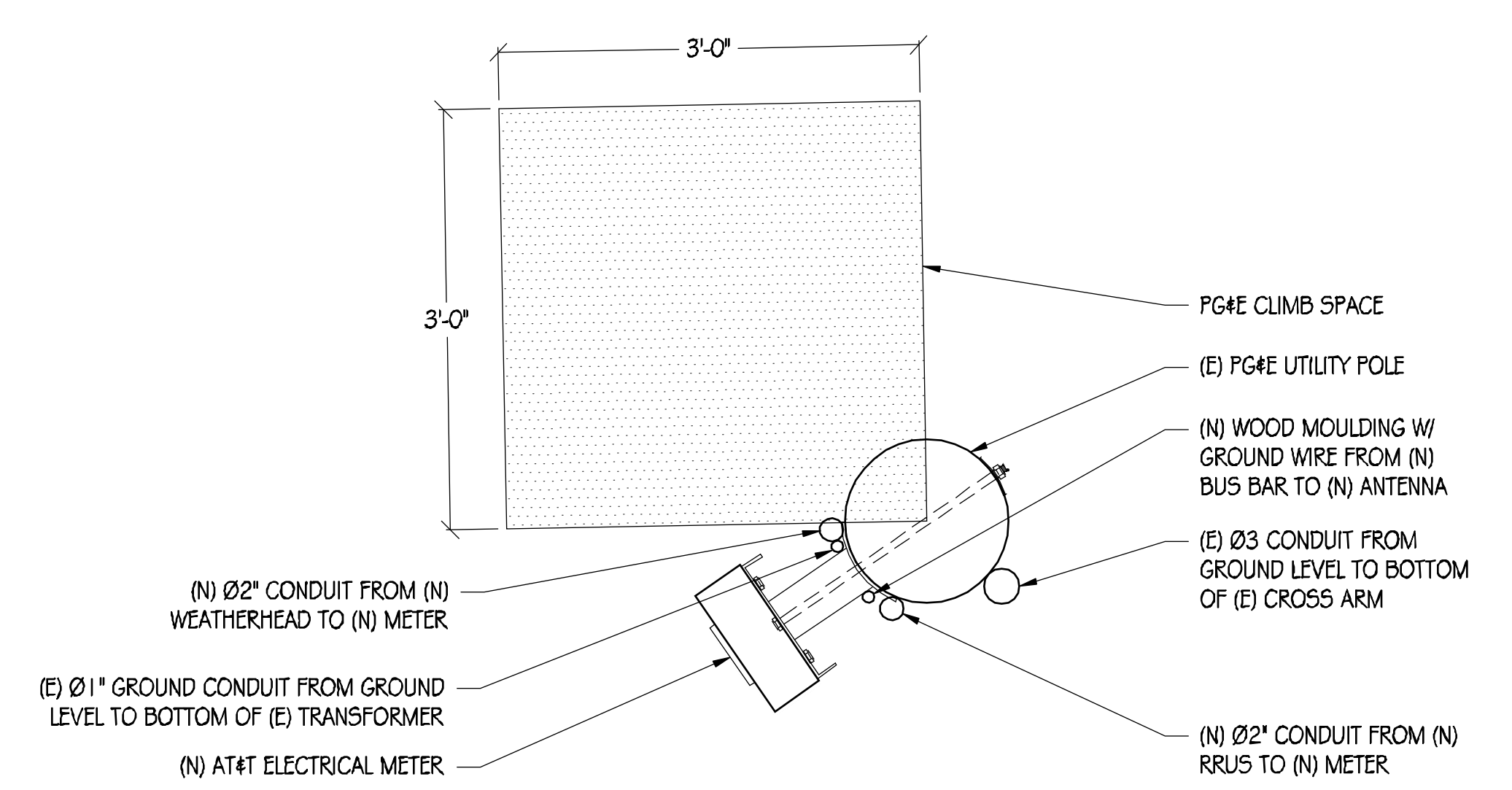
NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



TN
1"=1'
ANTENNA PLAN



TN
1"=1'
RRU PLAN



TN
1"=1'
ELECTRICAL METER PLAN



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE OUR SOLE PROPERTY AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED FOR ANY PROJECT OR ENTITY OTHER THAN THAT FOR WHICH THEY WERE SPECIFICALLY PREPARED. ANY REUSE OR MODIFICATION OF THESE DRAWINGS WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN DRAFTING, INC. IS STRICTLY PROHIBITED.



CRAN_RSFR_LOSAO_08

182 GARLAND WAY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/20/18	CD 90%
	07/25/19	CD 100%

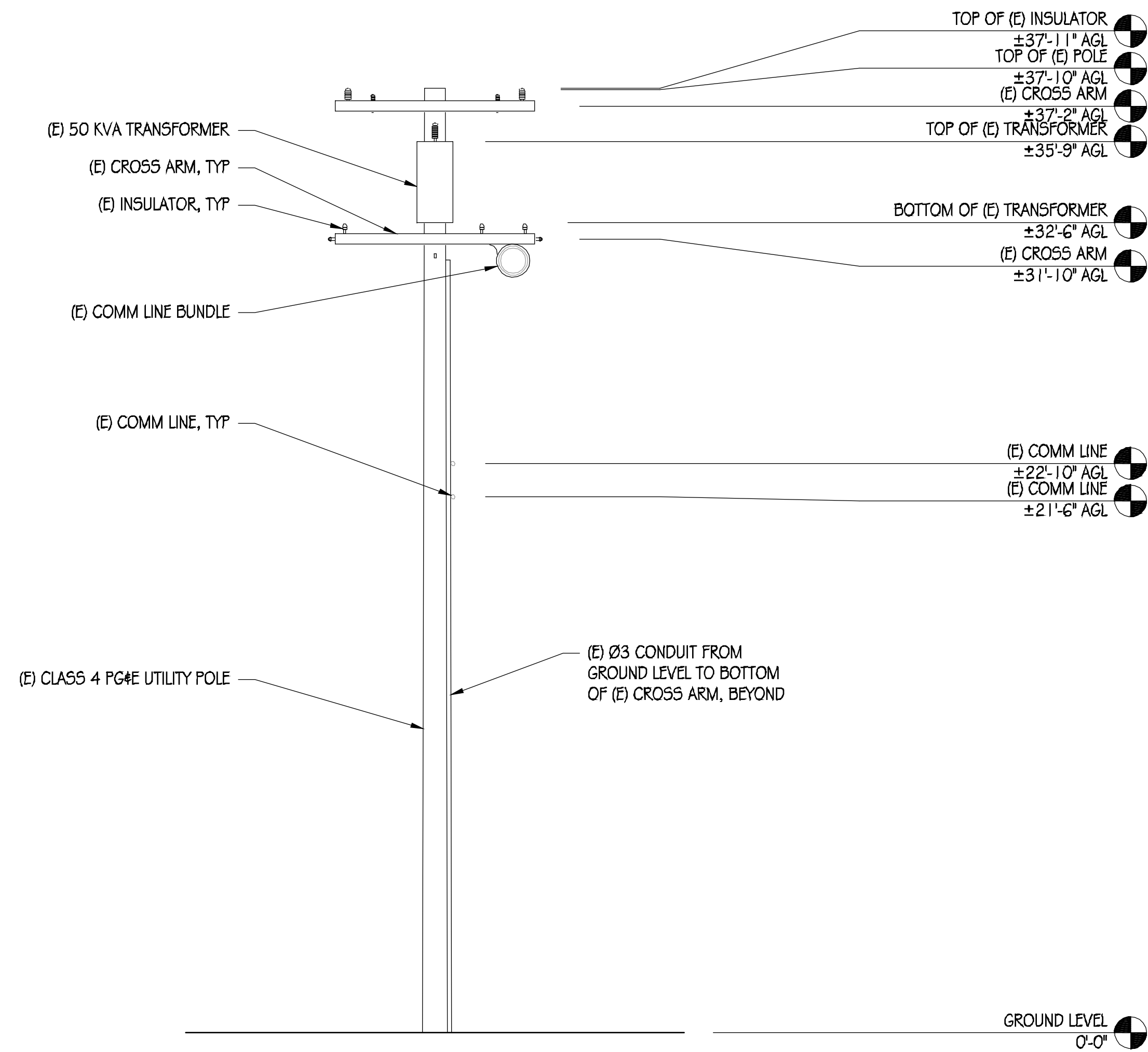
DRAWN BY: T. JONES
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:
EQUIPMENT PLAN # ANTENNA PLANS

SHEET NUMBER

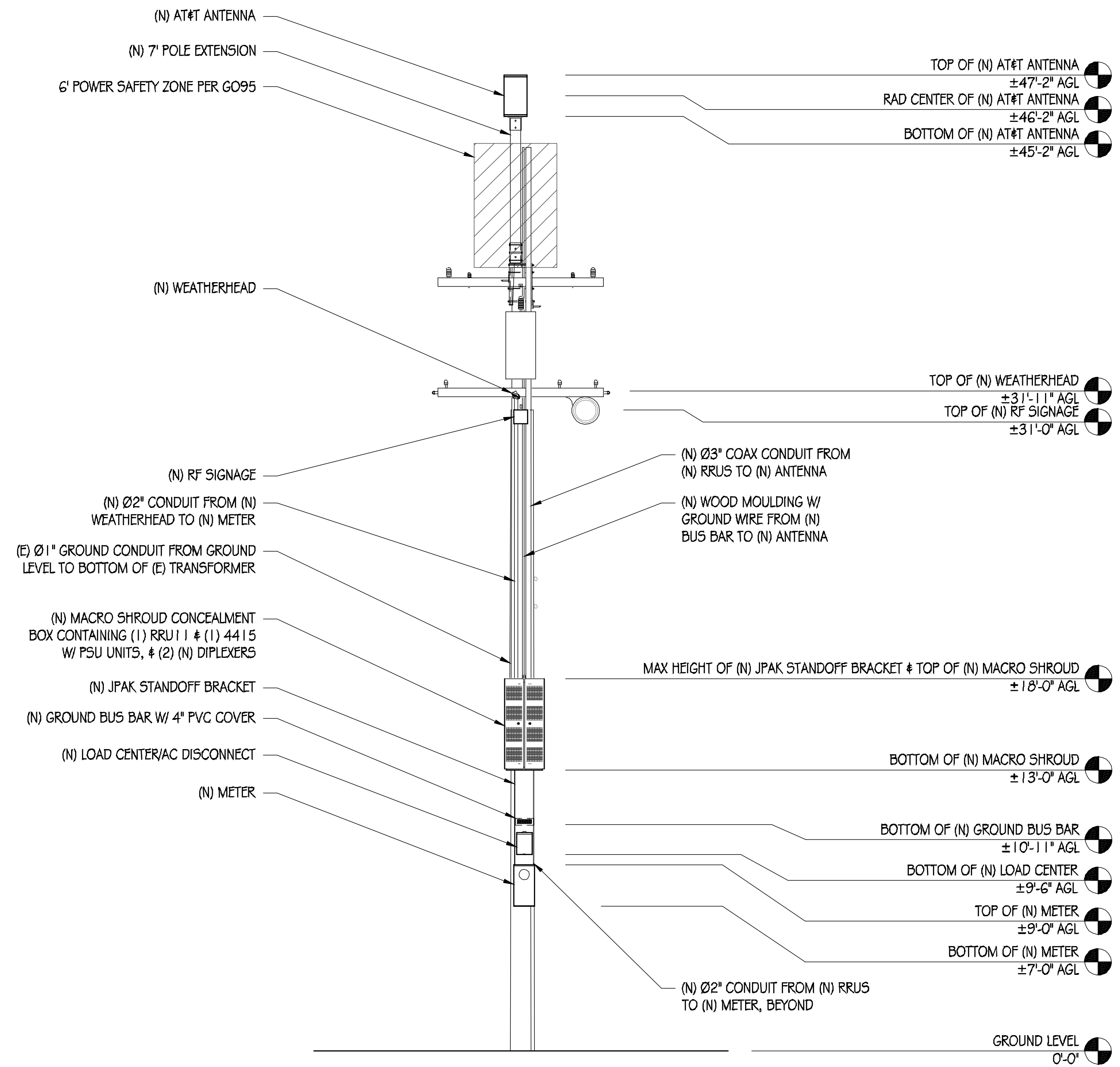
A-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING SOUTH ELEVATION

1/4" = 1'-0"



NEW SOUTH ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

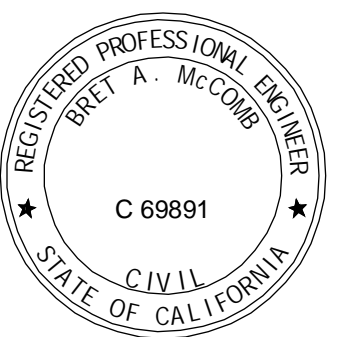


36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.

Phone: (530) 822-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN AND DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN PRECISION DESIGN AND DRAFTING, INC. WITHOUT WRITTEN PERMISSION OF PRECISION DESIGN AND DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_08

182 GARLAND WAY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/20/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T. JONES
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

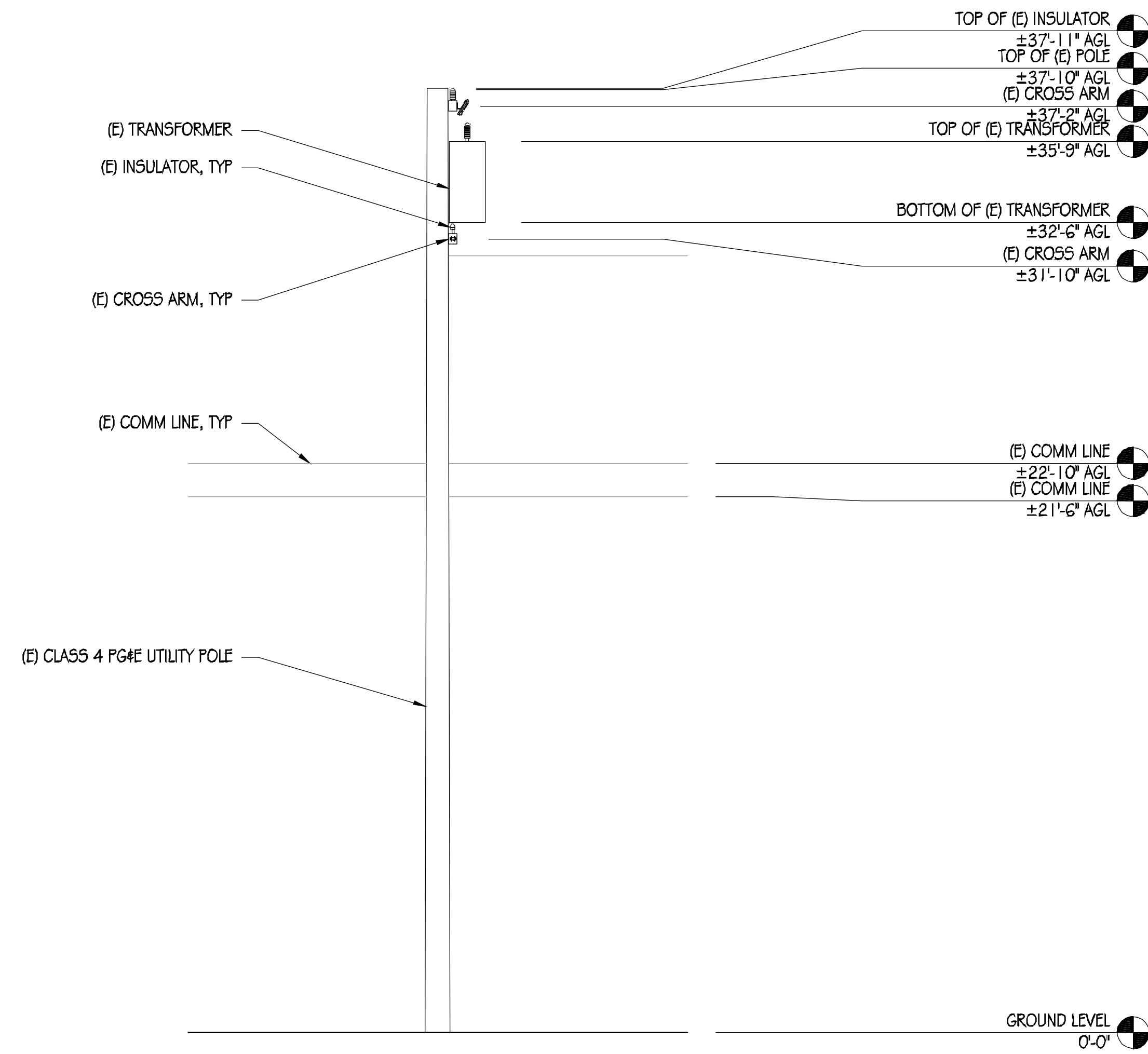
SHEET TITLE:

ELEVATIONS

SHEET NUMBER

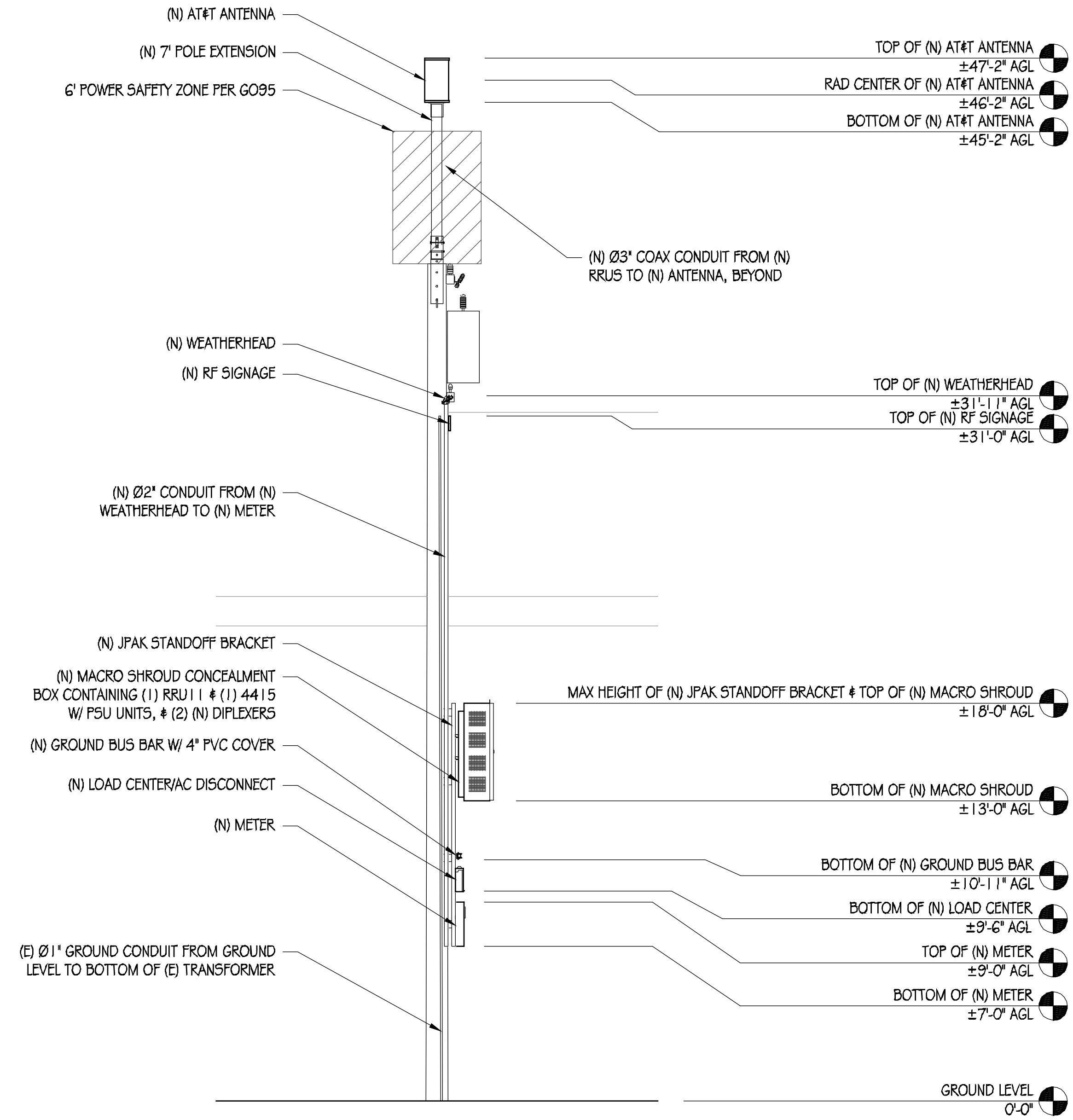
A-3

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING WEST ELEVATION

1/4" = 1'-0"



NEW WEST ELEVATION

1/4" = 1'-0"



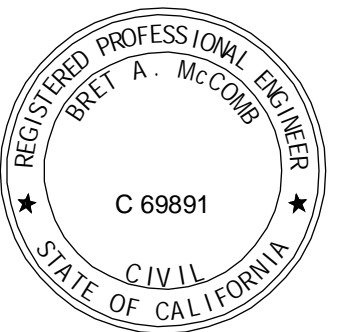
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 822-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_08

182 GARLAND WAY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/20/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T. JONES
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

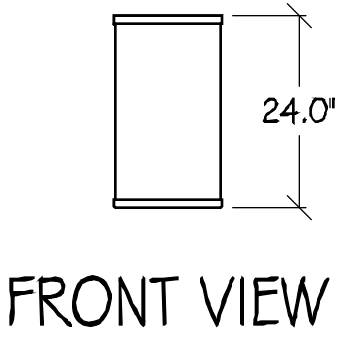
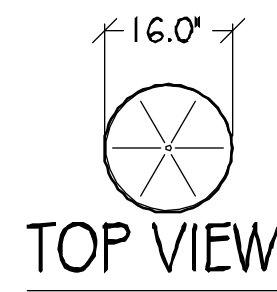
A-4

POLE-TOP EXTENSION NOTES:

1. THIS UNIT MEETS GENERAL ORDER (G.O.) 95 REQUIREMENTS FOR STRENGTH IN CLASS 6 POLES AND THEREFORE MAY BE USED TO SUPPORT EQUIPMENT ON THESE CLASSES OF POLES. IT MAY BE USED ON LARGER CLASS POLES, BUT MAY NOT BE USED TO SUPPORT EQUIPMENT ON THEM.
2. THE UNIT MAY BE GUYED.
3. THE BRACKET IS MADE TO FIT POLES WITH DIAMETERS OF 8"-11". THEREFORE, DEPENDING UPON THE ACTUAL POLE-TOP DIAMETER, TO FIT POLES OF CLASS 3 AND SMALLER, A BRACKET ADAPTER MAY BE REQUIRED.
4. UNITS ARE SUPPLIED WITH THE WOOD BAYONET ASSEMBLED.
5. A POLE STEP KIT IS REQUIRED.
6. ATTACH THE BRACKET ASSEMBLY ACROSS THE LINE DIRECTION WITH THE CROSS ARM.
7. ALL DETAILS SHOWN ON THIS PAGE ARE FOR REFERENCE ONLY. THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEMS ARE PER UTILITY COMPANY STANDARDS AND ARE SUBJECT TO CHANGE AT THEIR DISCRETION. BOTH THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEM SHALL BE INSTALLED BY THE UTILITY COMPANY.

KMW FX-OM2L10H2-06T

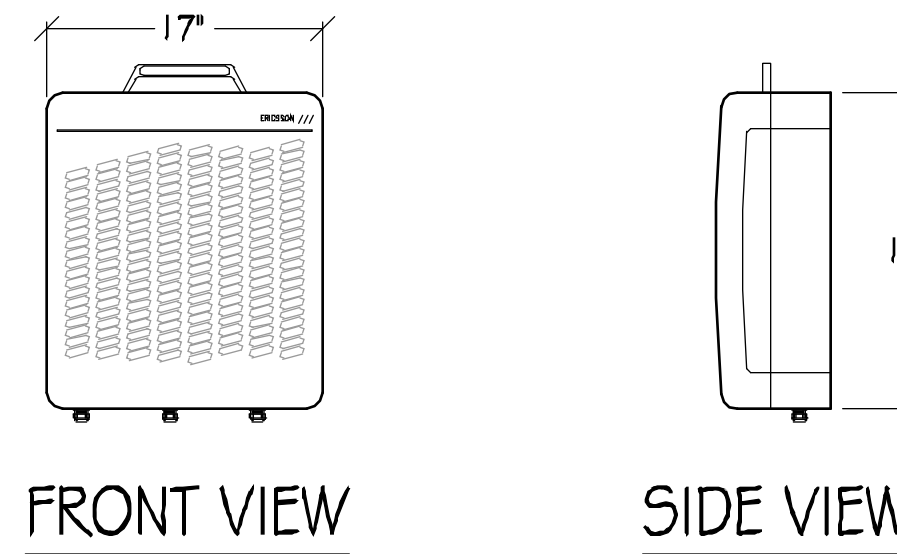
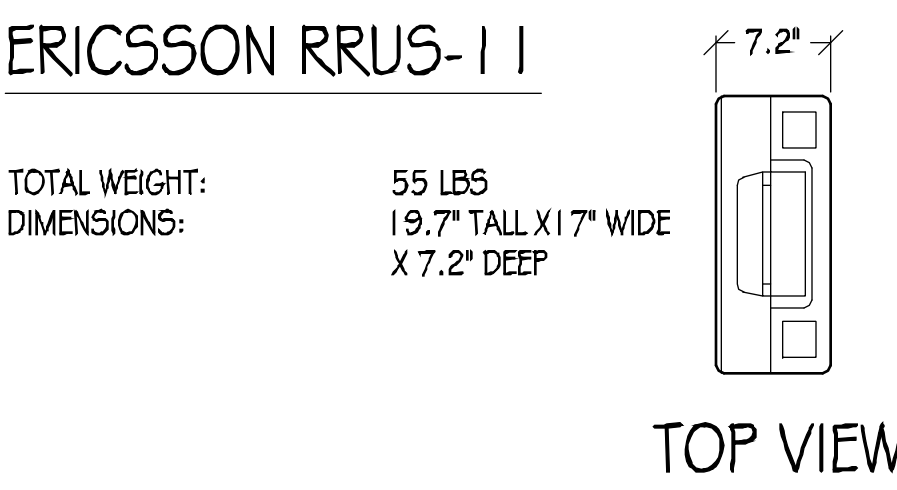
WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø 16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



1 ANTENNA
1/2"=1"

ERICSSON RRUS-11

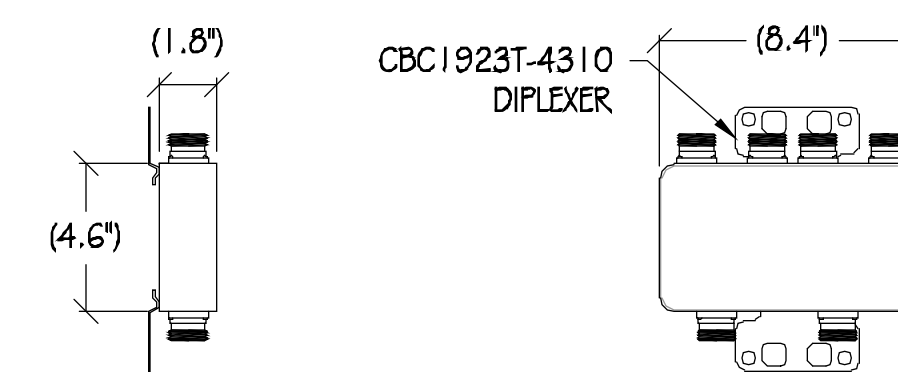
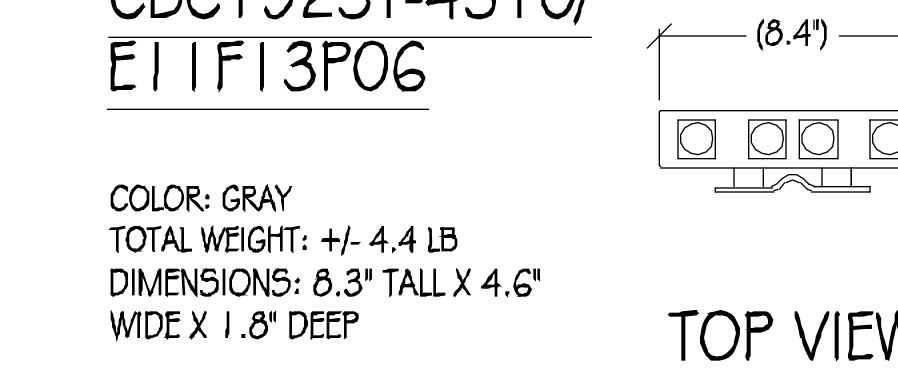
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



2 RRUS-11 DETAIL
1"=1"

COMMSCOPE CBC1923T-4310/ E11F13P06

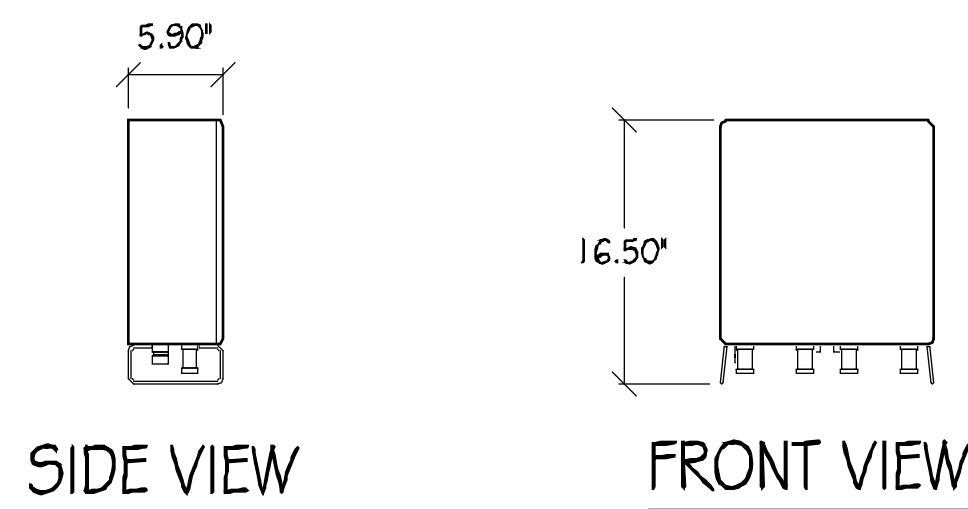
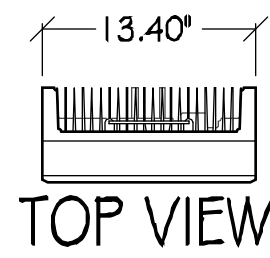
COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



3 DIPLEXER DETAIL
1"=6"

ERICSSON RRUS-4415

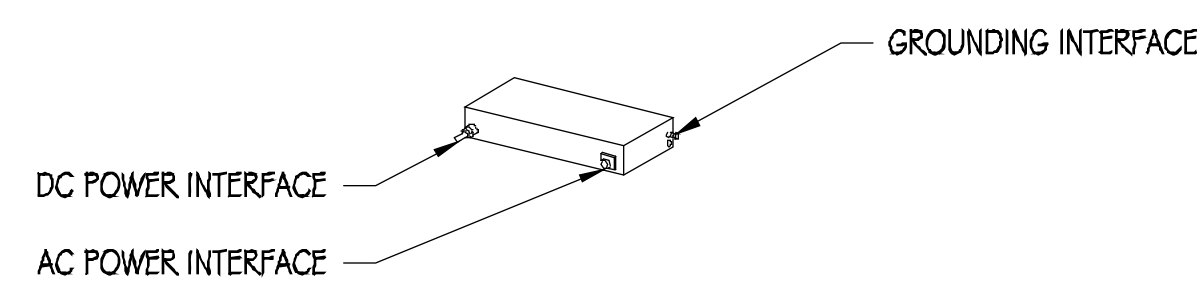
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



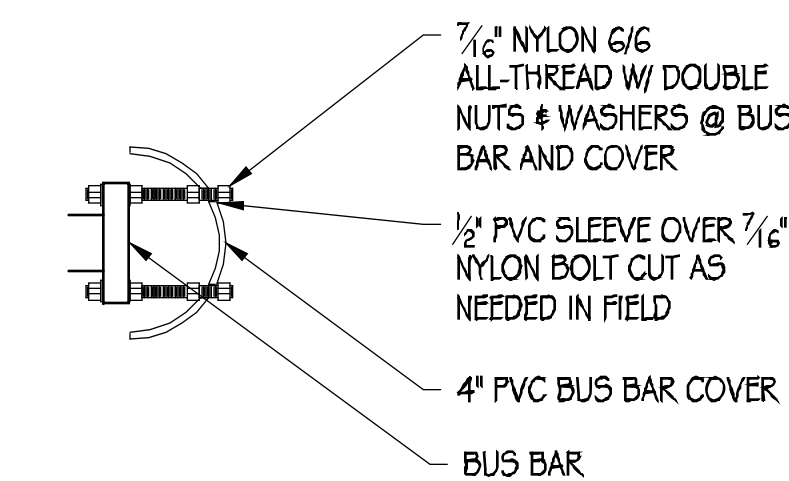
5 RRUS-4415 DETAIL
1"=1"

ERICSSON PSU AC 08

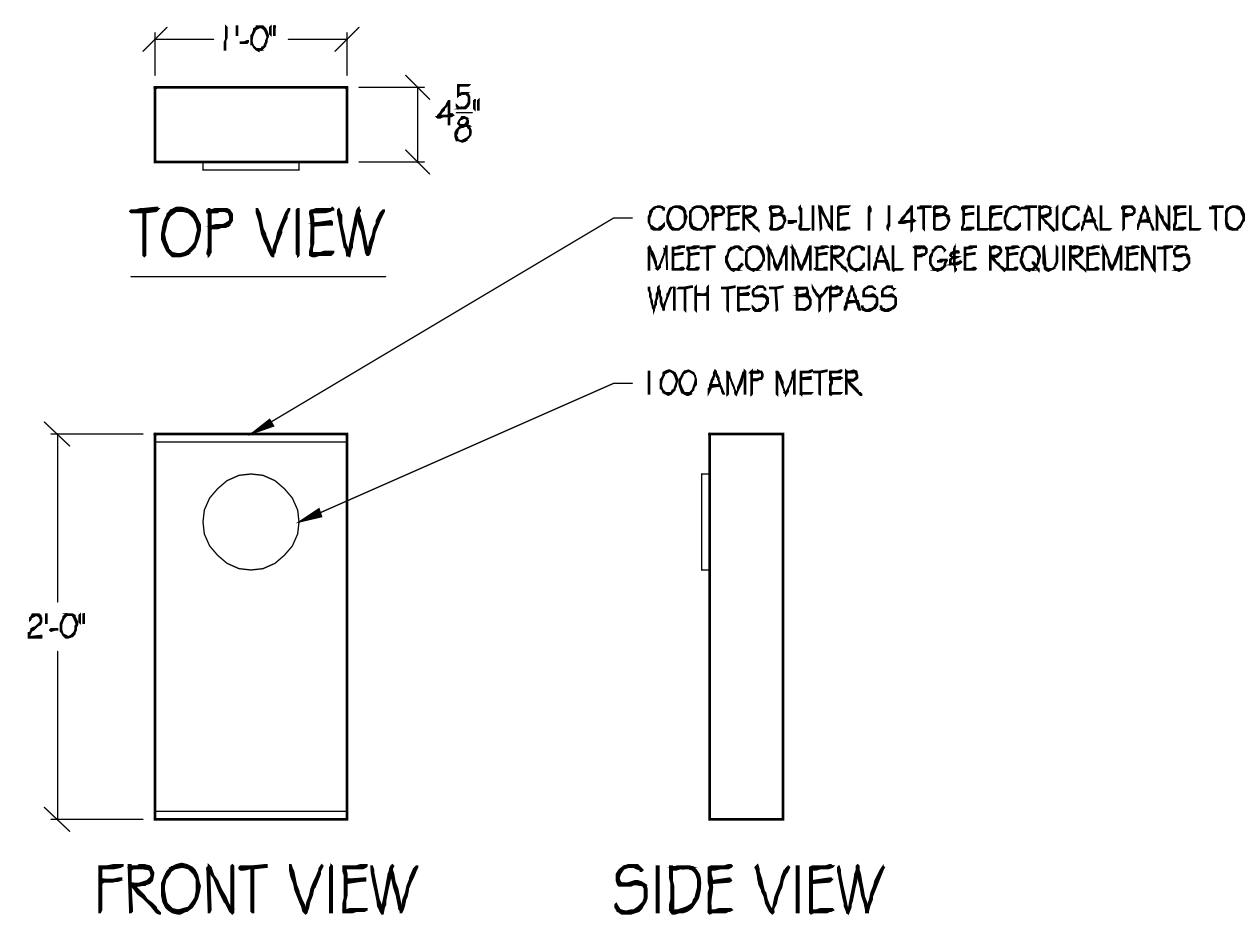
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



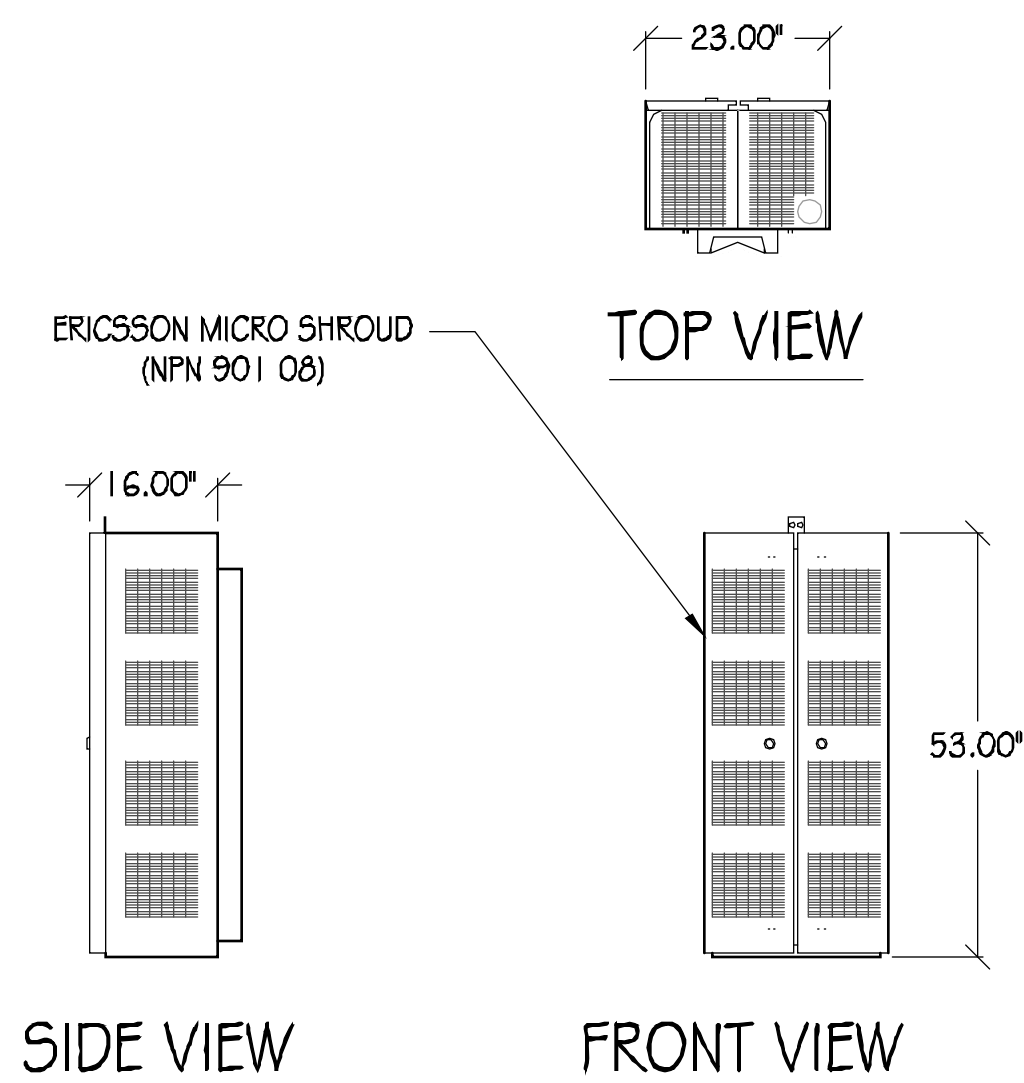
6 AC POWER MODULE
NTS



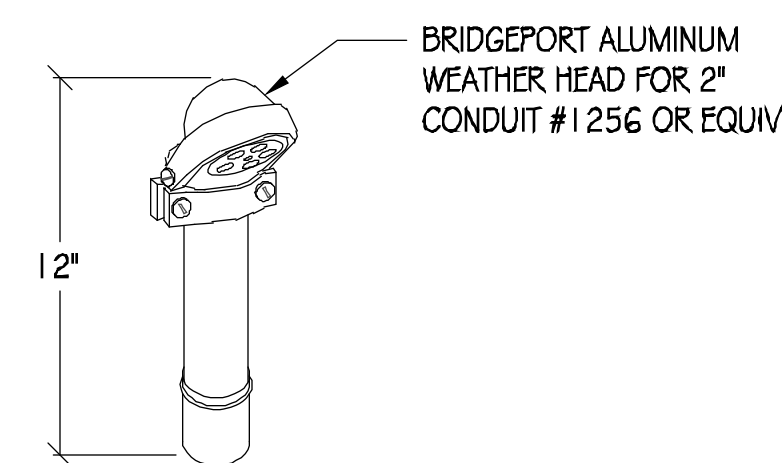
7 BUS BAR COVER
6"=1"



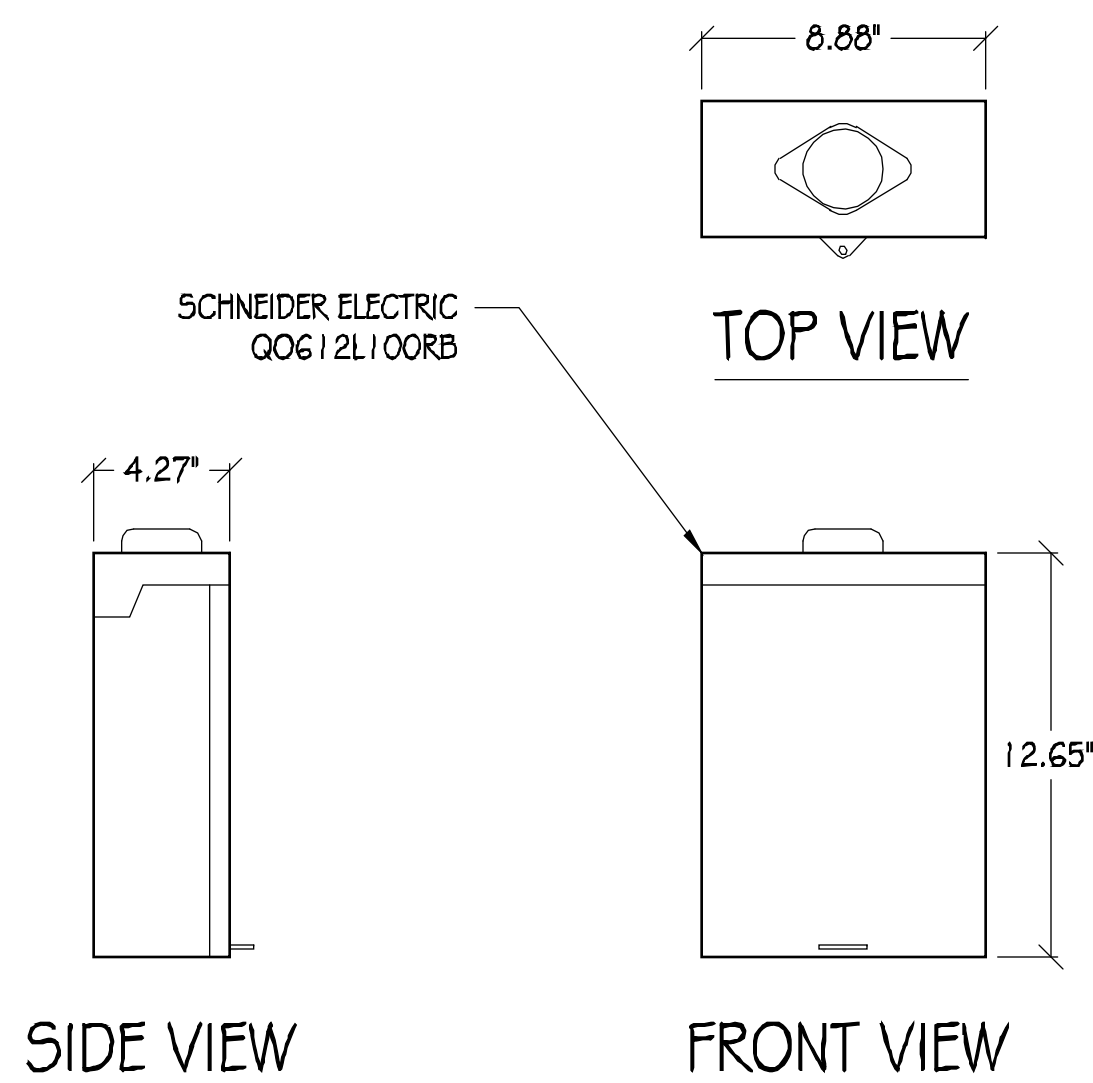
4 METER DETAIL
1"=1"



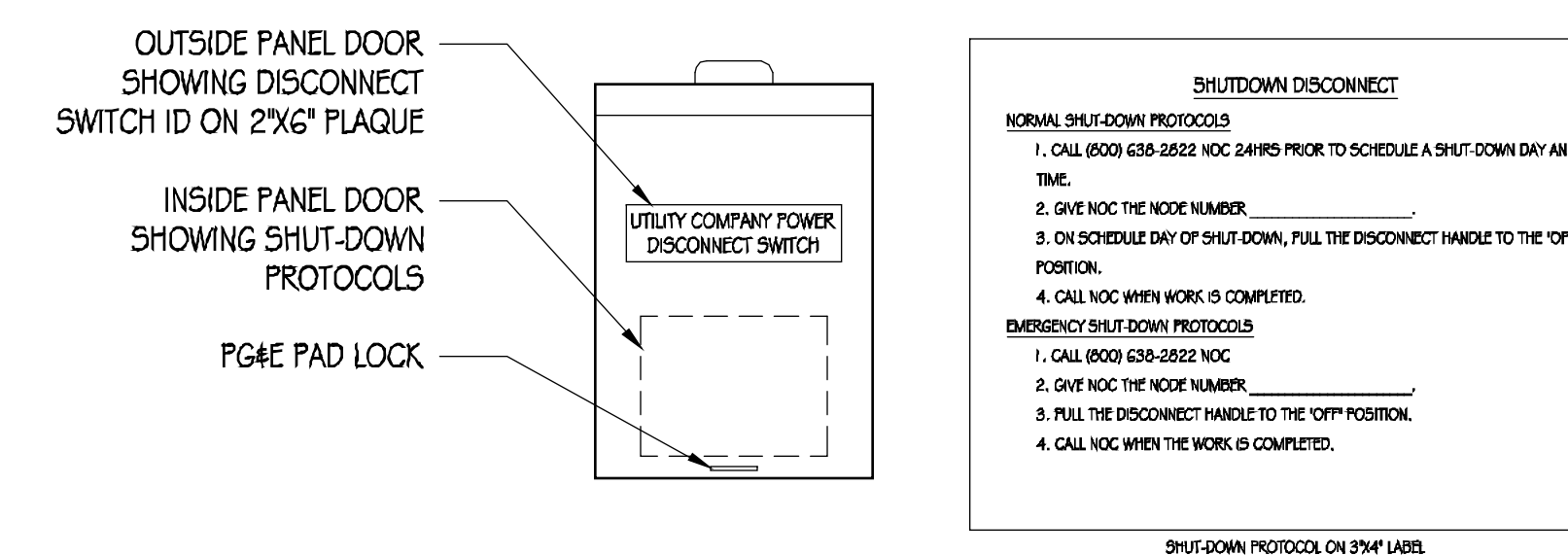
8 MICRO SHROUD CONCEALMENT
1/2"=1"



9 WEATHER HEAD
NTS



10 LOAD CENTER/AC DISCONNECT
1"=6"



11 DISCONNECT SIGNAGE
3"=1"

NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT



AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



36 DECEUTIVE PARK, SUITE 210
 IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THE CLIENT FOR ANY PROJECT OTHER THAN THAT SPECIFICALLY IDENTIFIED IN THESE DRAWINGS. PERMISSION TO REPRODUCE OR TRANSMIT IN ANY FORM OR BY ANY MEANS IS EXPRESSLY FORBIDDEN.



CRAN_RSFR_LOSAO_08

182 GARLAND WAY
 LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/20/18	CD 90%
	07/25/19	CD 100%

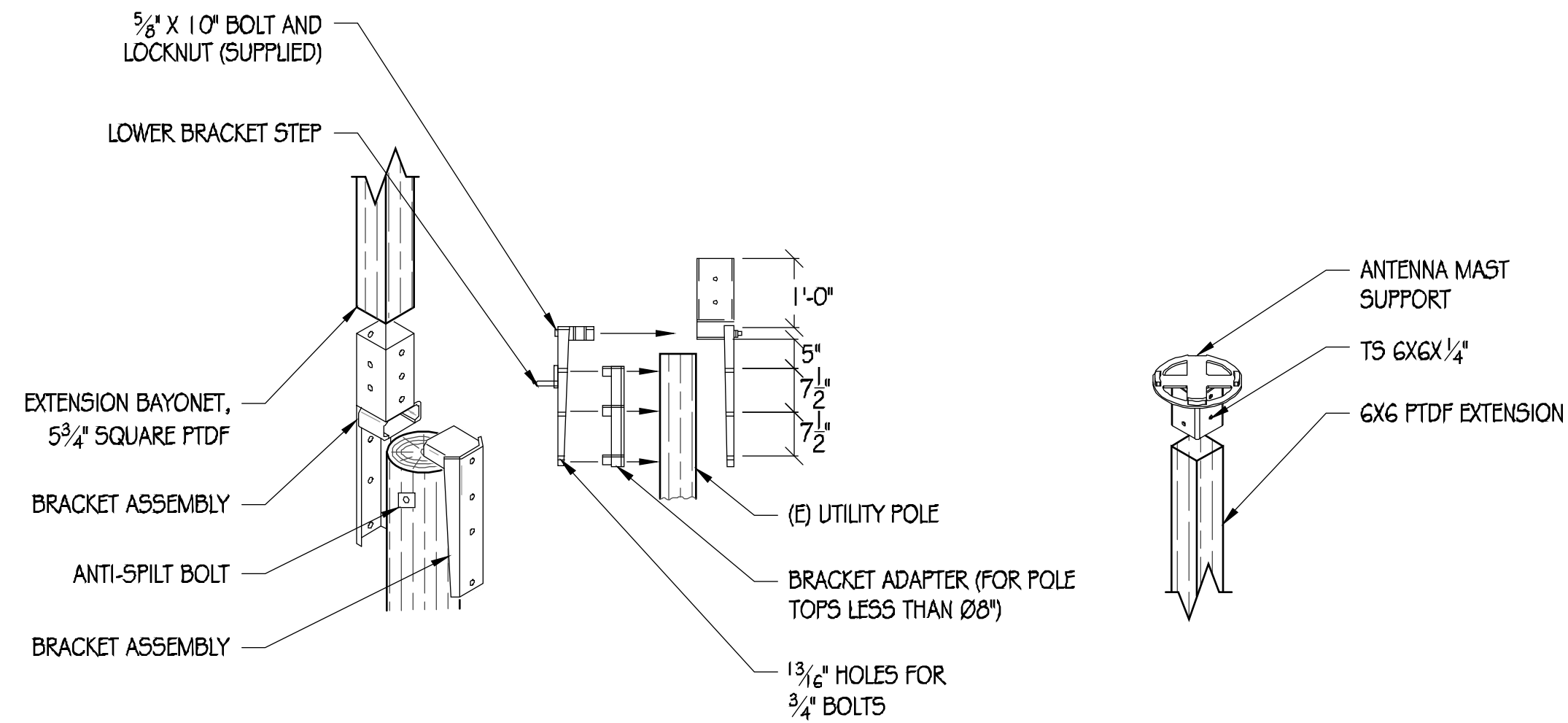
DRAWN BY: T. JONES
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/25/19

SHEET TITLE:
 DETAILS
 SHEET NUMBER

A-5

STRUCTURAL STEEL NOTES:

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) # WT (TEF) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A123 AFTER FABRICATION # PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED # PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.



1 POLE TOP EXTENSION ASSEMBLY
1/2" = 1'

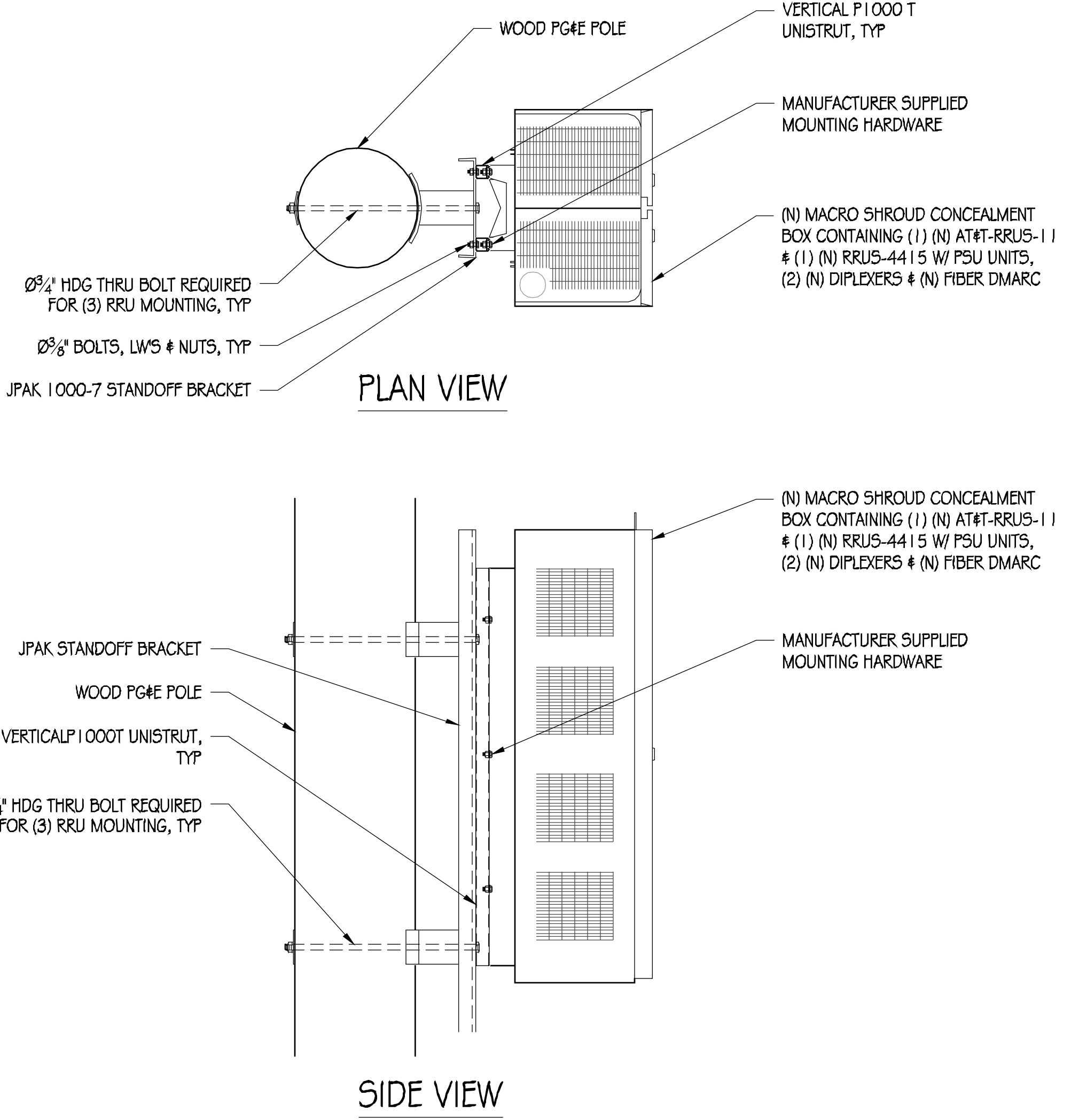
NOTICE

AT&T operates antennas at this structure. Above this point you are entering an area where radio frequency fields may exceed the FCC General Population Exposure Limits. Follow safety guidelines for working in an RF environment. Keep 9' feet away from the fronts of the antennas. Contact AT&T at 800-638-2822 and follow their instructions prior to performing any maintenance or repairs above this point. This is AT&T Site USID _____

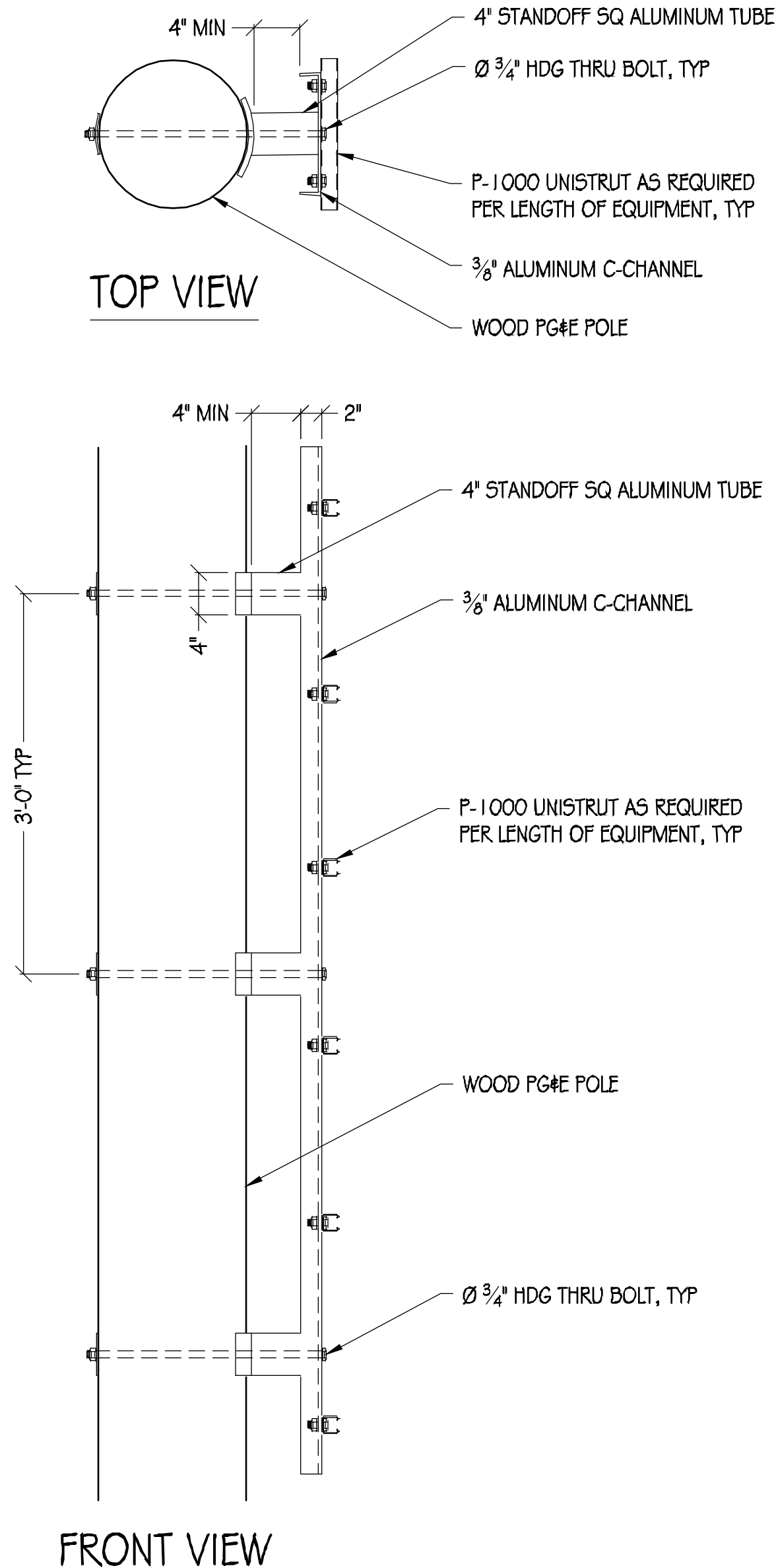
12.25" X 12.25" NOTICE DECAL BLUE DECAL

2 NOTICE SIGNAGE
NTS

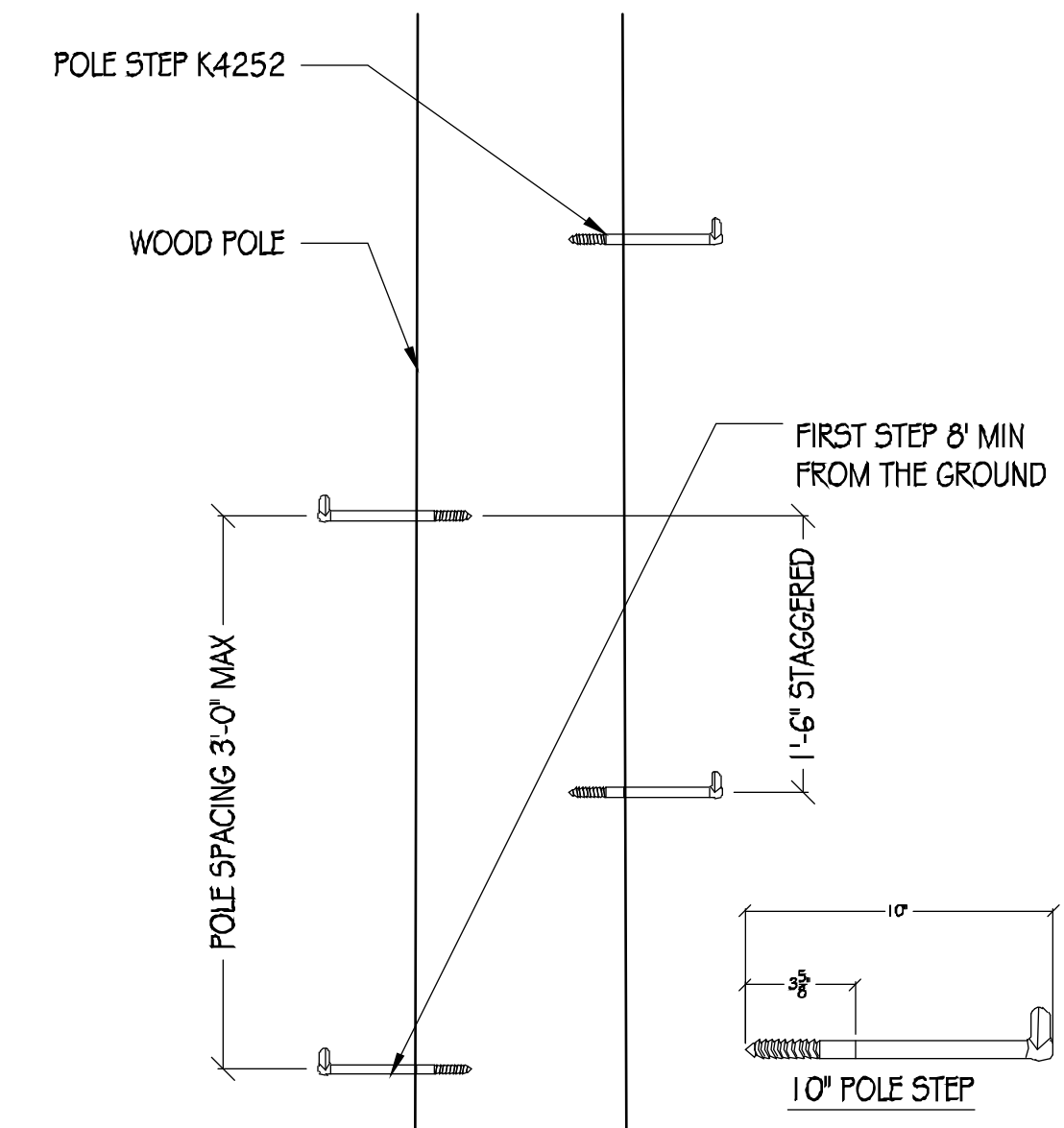
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
 - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA.



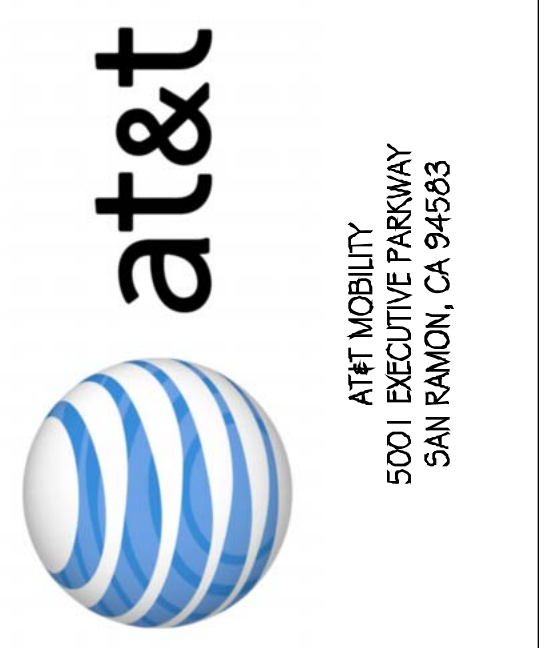
3 RRU MOUNTING DETAIL
1" = 1'



4 JPAK STANDOFF DETAIL
1" = 1'



5 POLE STEP
1" = 1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603



CRAN_RSFR_LOSAO_08
182 GARLAND WAY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/20/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T. JONES
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

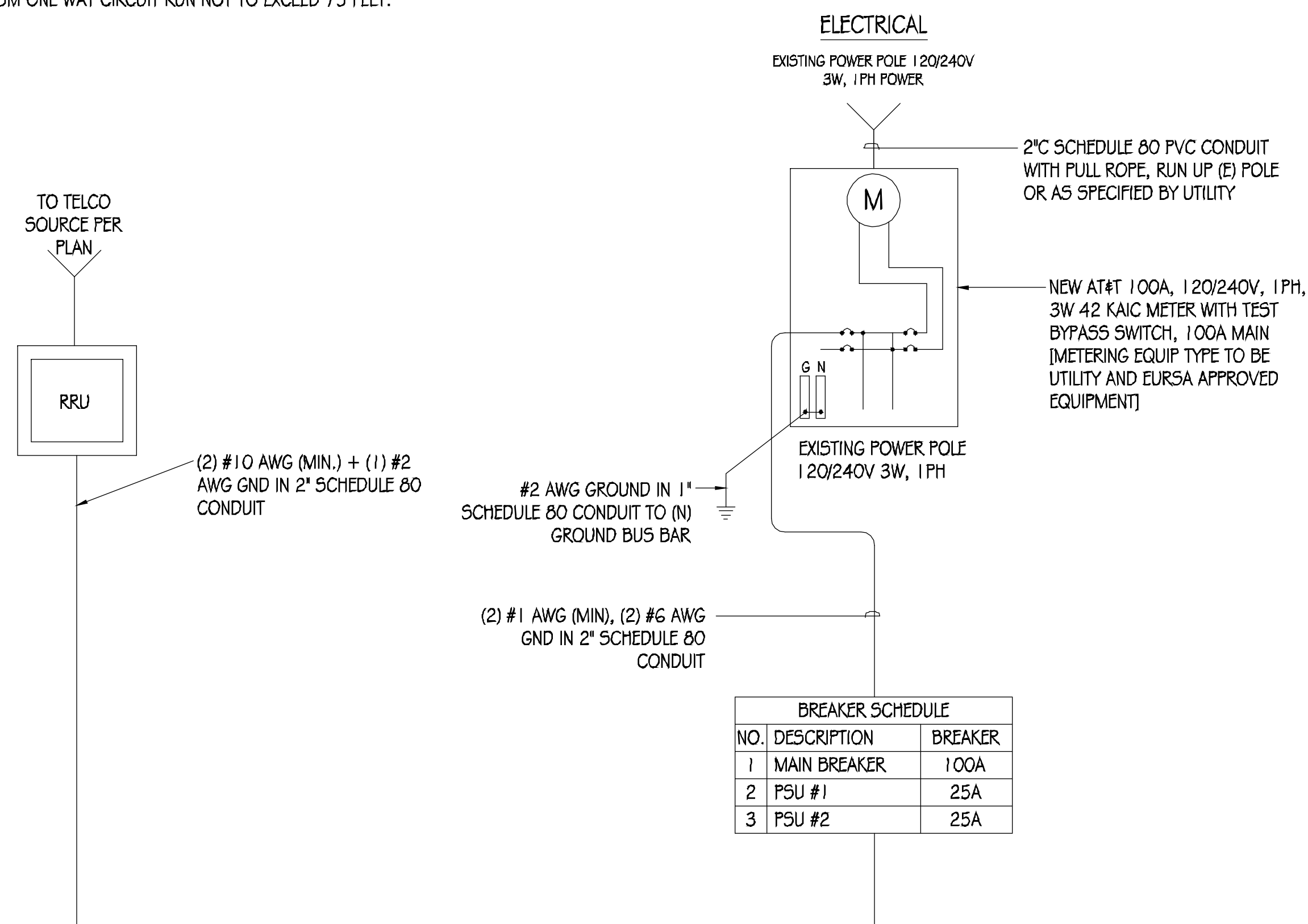
SHEET TITLE: DETAILS
SHEET NUMBER: A-6

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 RESTORED PER CITY STANDARD DETAILS.
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, SIDAUL 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.

POWER AND TELCO NOTES:

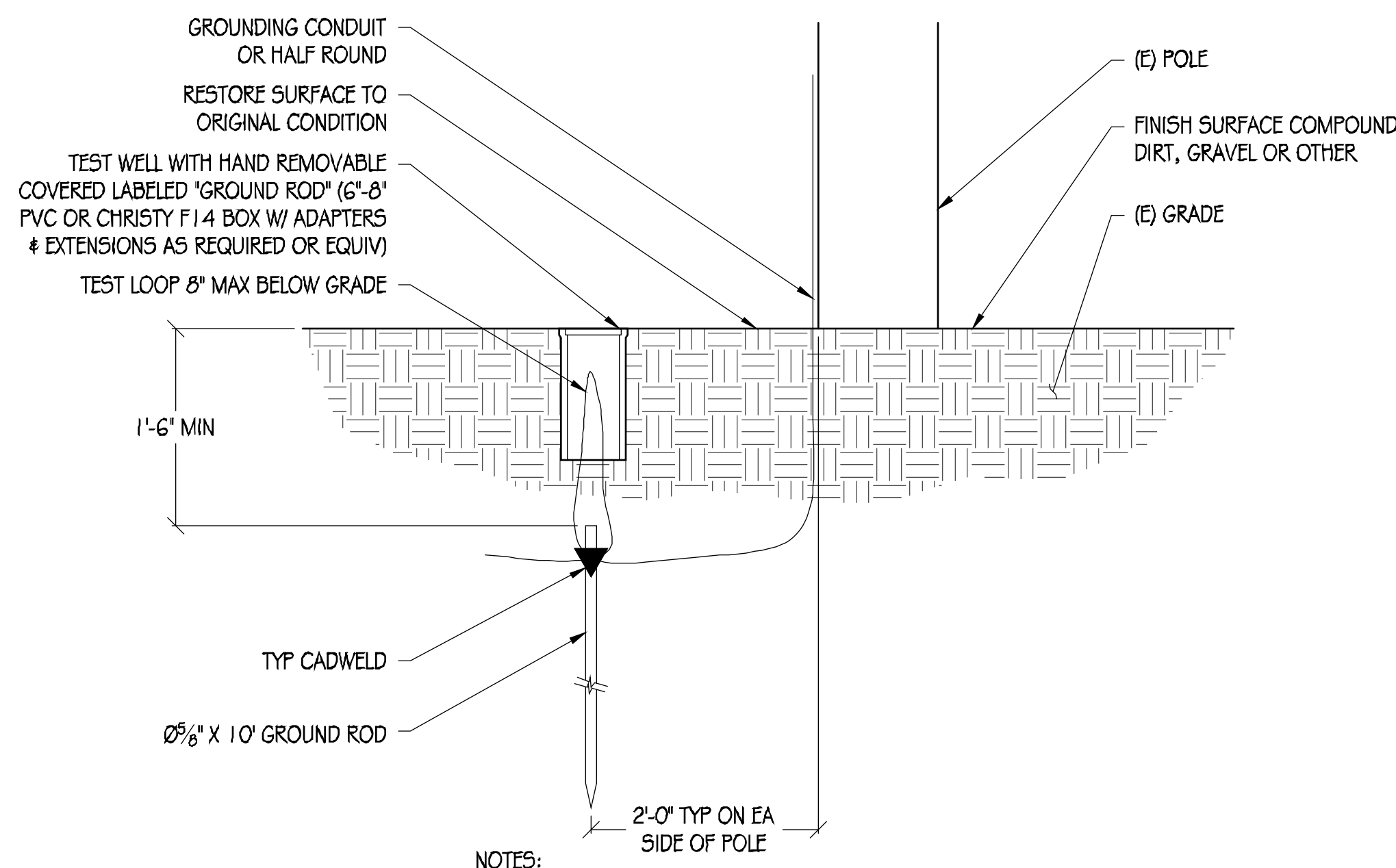
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE 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.
5. CONTRACTOR 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. CONTRACTOR 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.



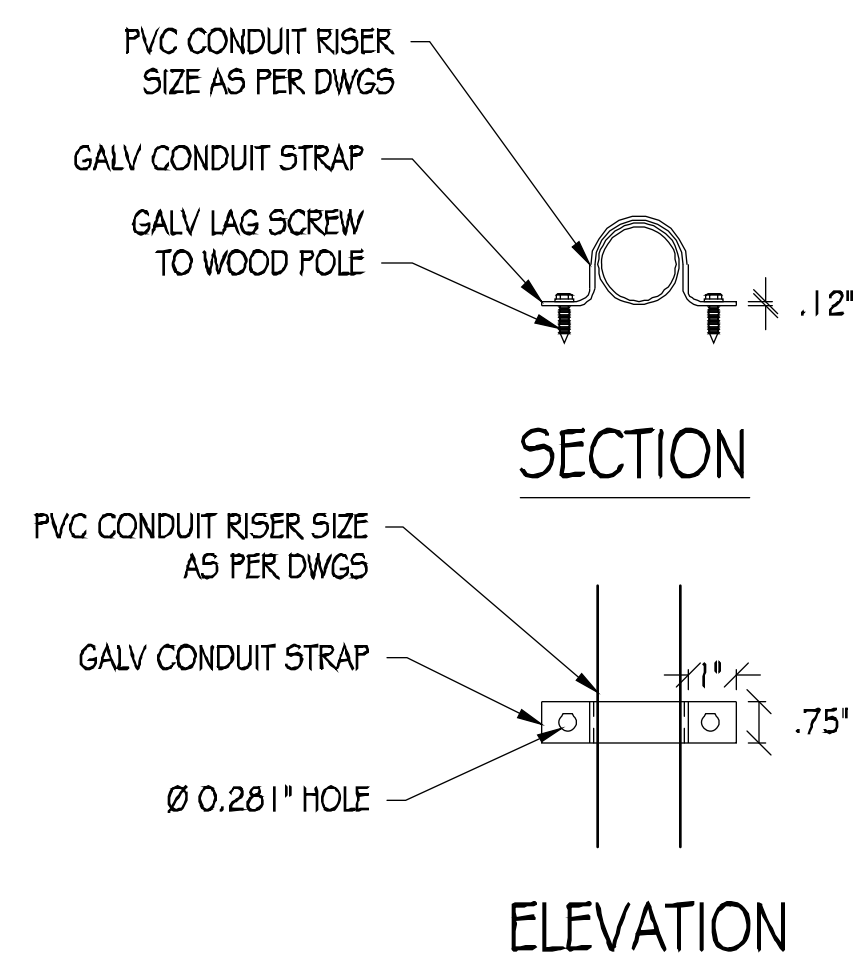
SINGLE-LINE DIAGRAM

LOAD SCHEDULE

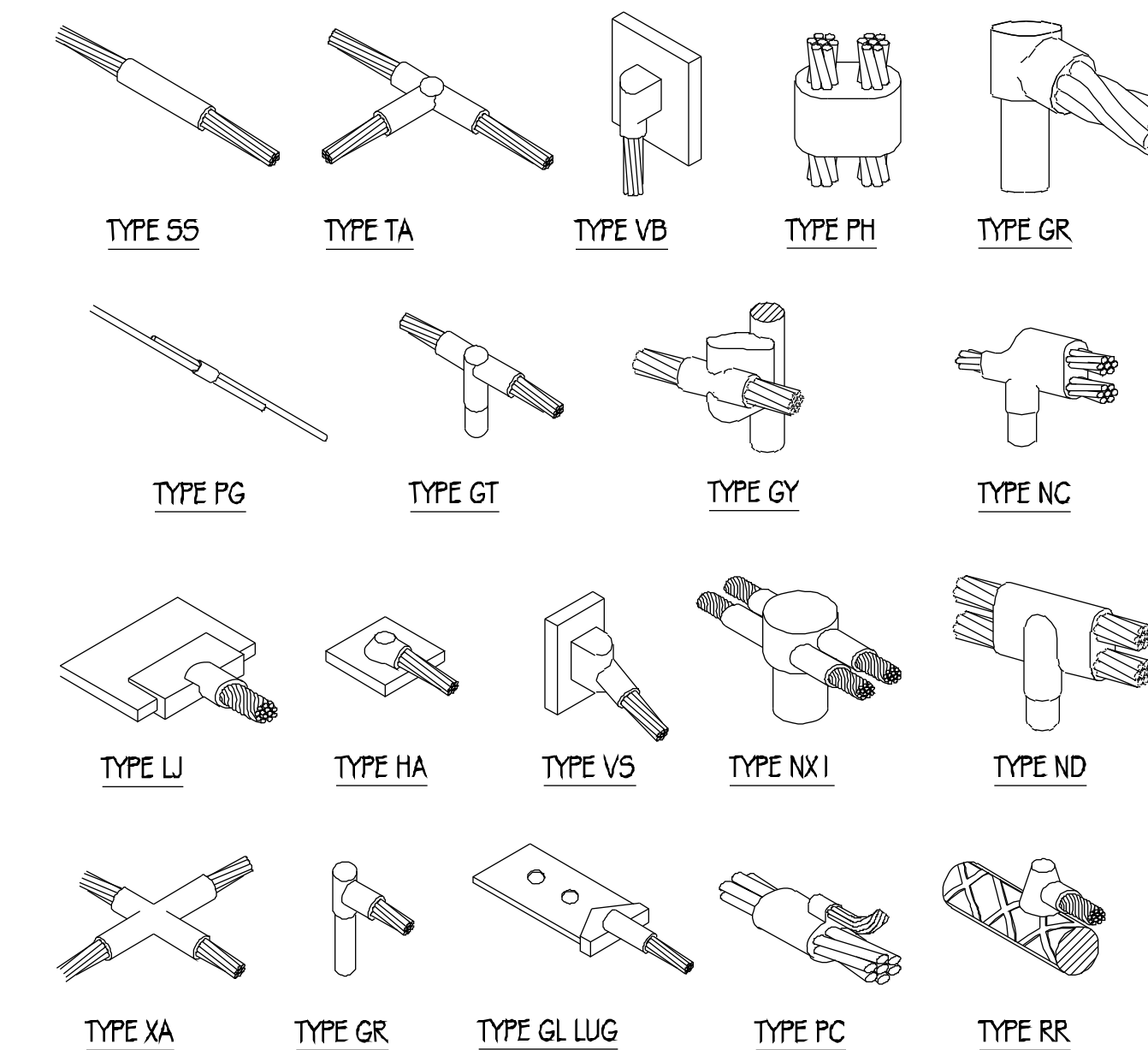
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TX/RX	MAX TRANSMIT POWER	W	HW
ERICSSON RRU5-4415	1	RRU5	16.5" X 13.4" X 5.9"	46 LBS	2T/2R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRU5	19.7" X 17.0" X 7.2"	55 LBS	2T/2R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 8.9" X 4.3"	40 LBS (MAX)	N/A	N/A	N/A	N/A



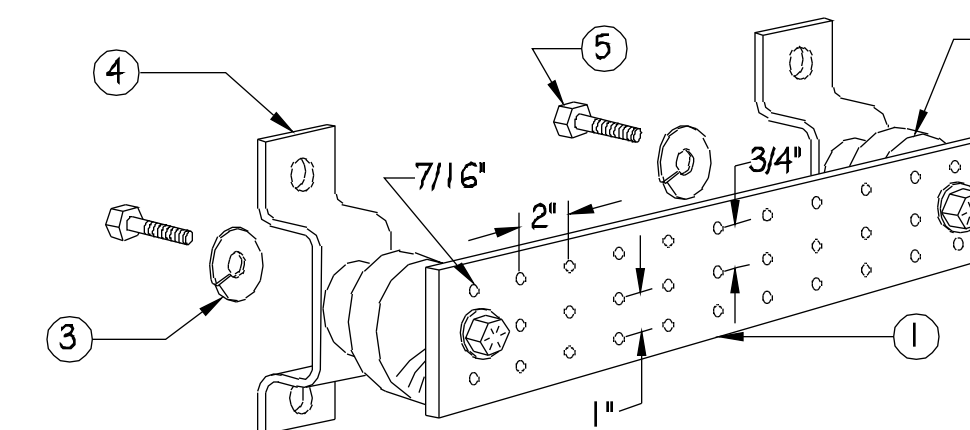
1 POLE GROUNDING DETAIL
NTS



2 CONDUIT RISER DETAIL
NTS

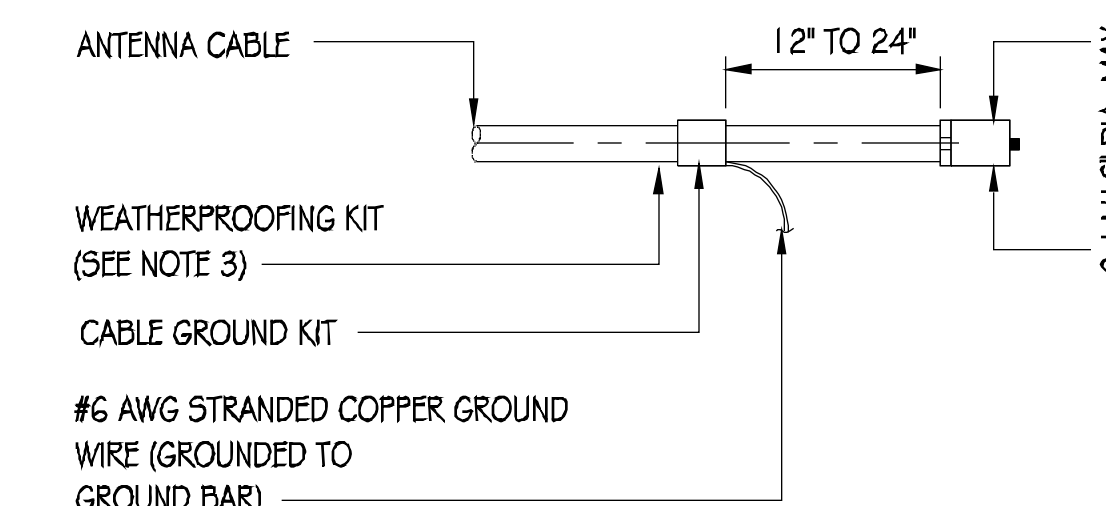


3 EXOTHERMIC WELD DETAILS
NTS



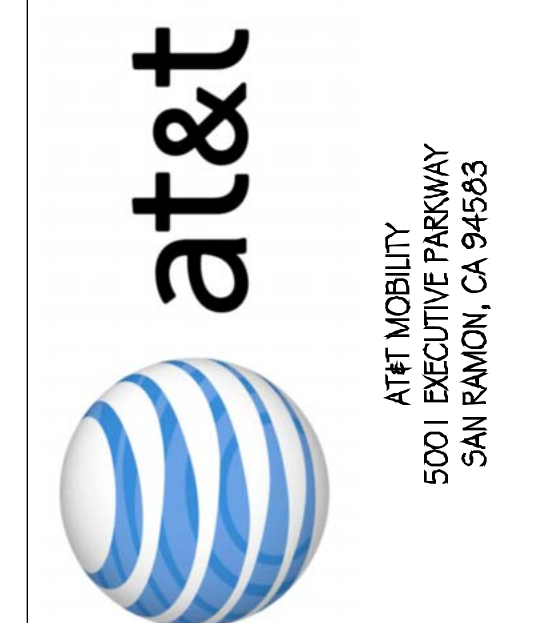
- NOTES:**
1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
 2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
 3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 OR 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.

4 GROUND BAR DETAIL
NTS



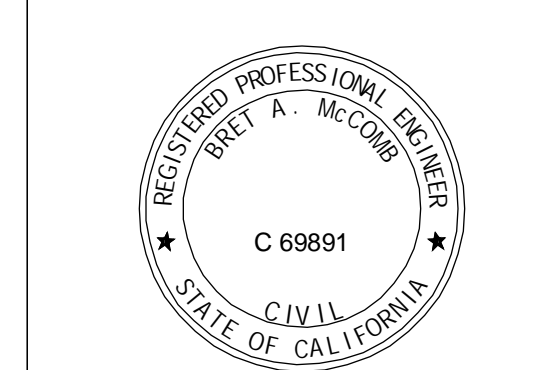
- NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

5 GND KIT DETAIL
NTS



PRECISION DESIGN Drafting, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11788 Alwood Rd, Suite 20 Auburn, CA 95603

THIS PLAN AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE OUR PROPERTY AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN OUR CLIENTS WITHOUT OUR WRITTEN PERMISSION.



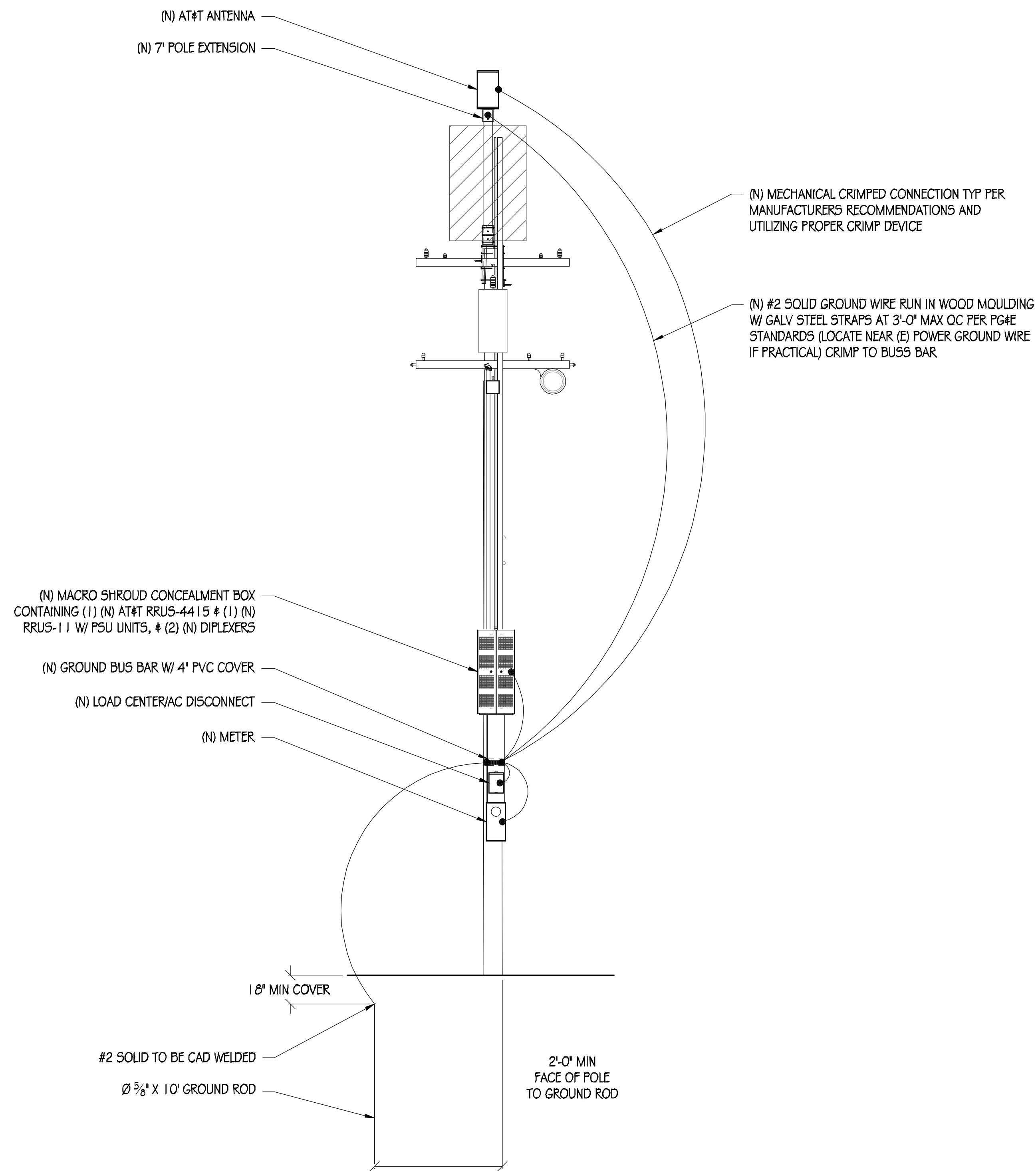
CRAN_RSFR_LOSAO_08
 182 GARLAND WAY
 LOS ALTOS, CA 94022

ISSUE STATUS

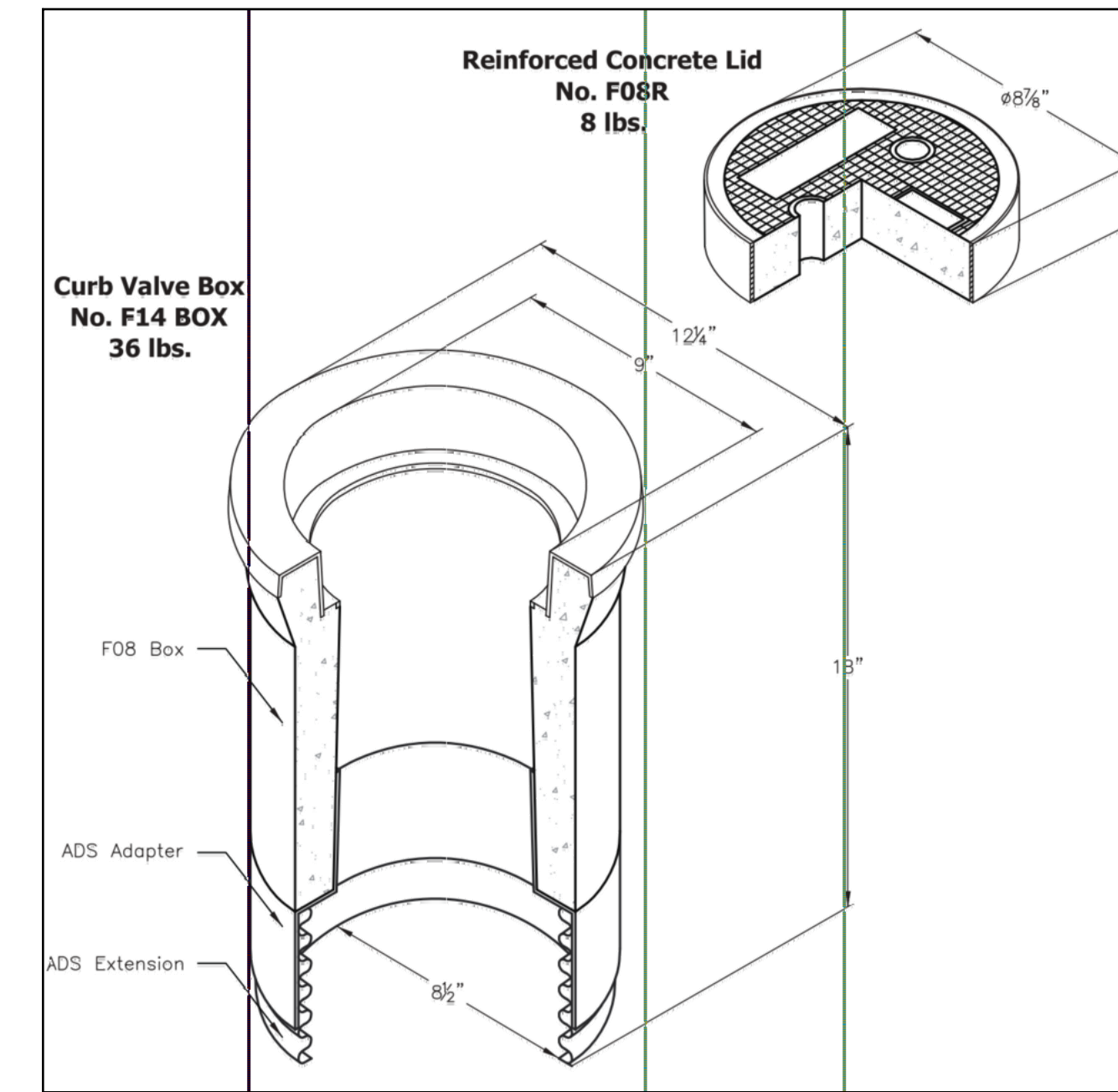
△	DATE	DESCRIPTION
	06/20/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T. JONES
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/25/19
 SHEET TITLE:

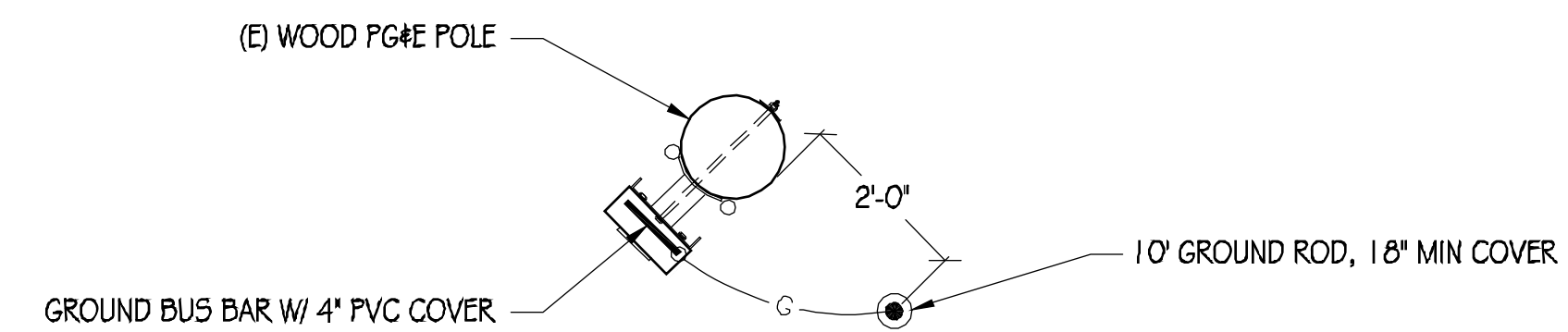
SINGLE-LINE DIAGRAM & DETAILS
 SHEET NUMBER
E-1



POLE GROUNDING DIAGRAM
NT5



TEST WELL DETAIL
NT5



GROUNDING PLAN
NT5



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN AND DRAFTING, INC. THESE PLANS AND SPECIFICATIONS SHALL NOT BE USED IN ANY FORM OR BY ANY OTHER INDIVIDUALS WITHOUT THE WRITTEN CONSENT OF PRECISION DESIGN AND DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_08

182 GARLAND WAY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/20/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T. JONES

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

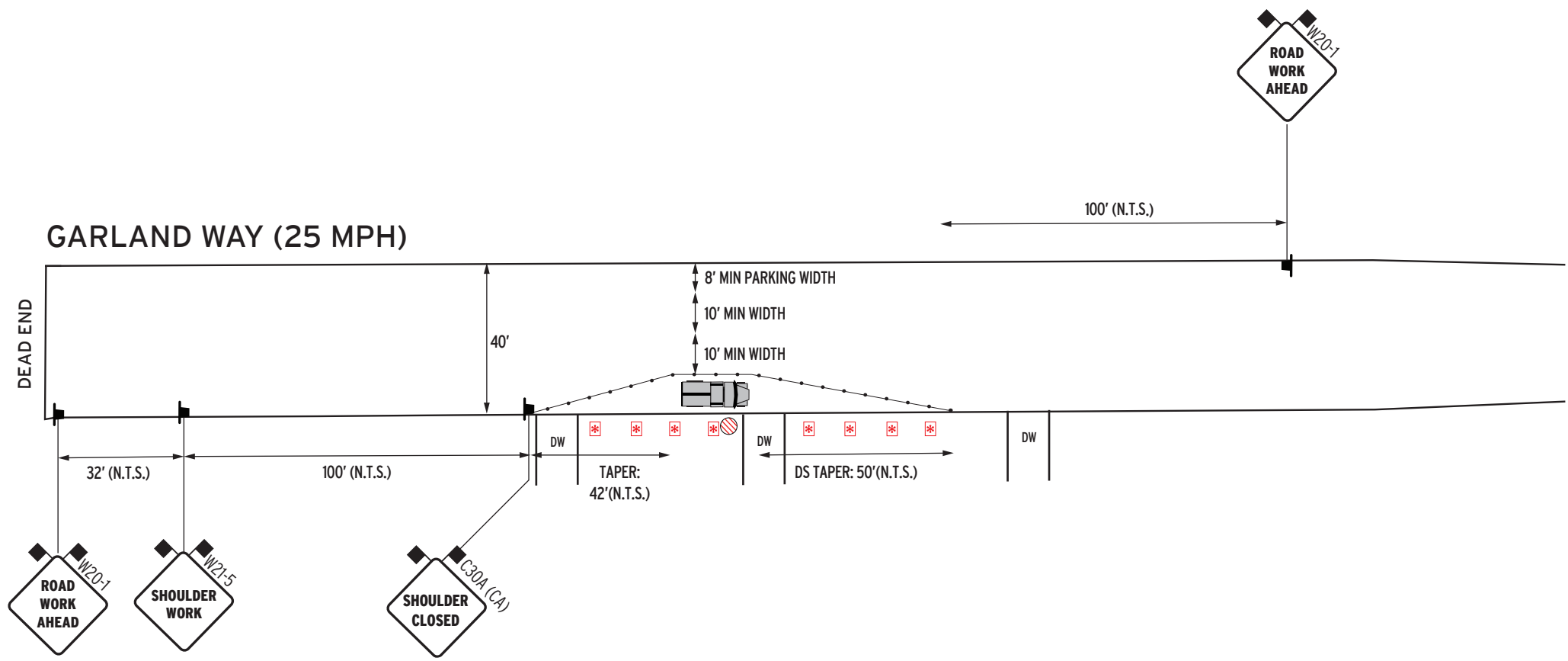
DATE: 07/25/19

SHEET TITLE:

GROUNDING DIAGRAMS

SHEET NUMBER

E-2



ADDITIONAL NOTES:
 1. SIGN SPACING FOR W20-1 (CA) ADJUSTED TO 32 FEET TO ALLOW PLACEMENT OF W21-5 (CA) PRIOR TO THE TAPER FOR SOUTH BOUND TRAFFIC ON GARLAND WAY.

- LEGEND:**
- CHANNELIZING DEVICE
 - TRAFFIC CONE W/CLIP ON SIGN
 - ▲ SIGN
 - WORK ZONE
 - ↓ DIRECTION OF TRAFFIC
 - Y TYPE 1 BARRICADE
 - Y TYPE 1 BARRICADE W/SIGN
 - I TYPE 3 BARRICADE
 - I TYPE 3 BARRICADE W/SIGN
 - ⚠ CERTIFIED FLAGGER
 - ⊗ CRASH BARRELS
 - ▨ MESSAGE BOARD (PCMS)
 - ⚡ FLASHING ARROWBOARD
 - ⊠ TEMP NO PARKING SIGNS
 - ★ FLASHING BEACON/BARRICADE LIGHT
 - K-RAIL/WATER FILLED BARRIER
 - PEDESTRIAN BARRICADE

- NOTES**
- Traffic control shall conform with MUTCD and/or Caltrans Standards section 6 dated 2014.
 - 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.
 - Contractor shall notify local authorities once signs are posted.
 - All advanced warning signs shall be equipped with 2 (18" orange flags)
 - Certified Traffic Control Workers shall have Type II vests, work shoes, and hard hats.

- Temporary no parking signs shall be placed a min of 72 hrs prior of work.
- Driveways shall be monitored and maintained at all times during work hours.
- Distance between sign and work area will be determined on speed limit.
- Roadway shall not be opened until safe for public use. All open trenches must be plated or backfilled prior to public usage.
- All Devices shall be removed when no longer required.

MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
Urban (Low Speed) - 25 mph or less	100 ft	100 ft	100 ft
Urban (Low Speed) + 25 to 40 mph	250 ft	250 ft	250 ft
Urban (High Speed) + 40 mph	350 ft	350 ft	350 ft
Rural	500 ft	500 ft	500 ft
Expressway / Freeway	1,000 ft	1,500 ft	2,640 ft



SCALE:
NOT TO SCALE

DATE REQD: **6-18-19**

DATE COMPLTD: **6-28-19**

PROJECT LOCATION:
**182 GARLAND WAY
 LOS ALTOS**

PO#: **LOSAO_08**

PAGE#: **1/1**

REQUEST BY:
**LANCE LEWIS
 SURESITE
 216-593-0400
 L.LEWIS@SURE-SITE.COM**

PLAN-1
 TEMP TRAFFIC CONTROL PLAN

**AFTER HOURS
 EMERGENCY
 510-299-5666**

Drawn By:
 Lindsay Hunt
 CSLB# 917034
 Office: 510-657-2543
 Fax: 510-657-2544
 44800 Industrial Drive Fremont, CA 94538
B.A.T.S. TRAFFIC SOLUTIONS

CITY OF LOS ALTOS
DISTRIBUTED ANTENNA SYSTEMS FOR WIRELESS COMMUNICATIONS
ENCROACHMENT PERMIT REQUIREMENTS

Distributed, repeater, or microcell antenna wireless communication systems and facilities that are regulated by the California Public Utilities Commission as a public utility and determined to be exempt from Los Altos' zoning regulations and use permit application requirements, shall be allowed in the public right-of-way subject to the following Encroachment Permit requirements:

- A. Antenna systems are encouraged along the city's arterial and collector streets. These facilities are allowed on local streets upon verification by a qualified electrical engineer licensed by the state of California representing the FCC licensee that using local streets is necessary to obtain capacity and coverage.
- B. Antenna systems are permitted on joint utility poles at a height not to exceed 10 feet above the height of joint utility pole. Replacement joint utility poles are allowed in accordance with the Municipal Code; however, no net new joint utility poles or monopole antennas are allowed in the public right-of-way.
- C. Antennae shall be designed to be as visually unobtrusive as possible, such as by housing the antenna in a single radome on top of joint utility pole, or by mounting the antenna directly on the joint utility pole in a streamline manner and painted to match the color of the utility pole.
- D. All antenna systems equipment boxes including switches, computers, cooling, back up power, etc., shall be mounted to the utility pole and both the antenna and utility equipment shall be painted to match the color of the existing utility pole.
- E. Only battery back up power systems shall be allowed. No generators shall be allowed.
- F. All new fiber optic and metal cables shall be installed underground unless there are existing overhead cables that can be collocated.
- G. Radiofrequency reports shall be provided for the facility's maximum planned operating power pursuant to the underlying FCC license.
- H. Provide a build-out plan that to the extent known at the time of application identifying by physical address (or if none, by geographic description) all other sites, regardless of whether now constructed, proposed, or anticipated, which are under contract at the time of application, subject to contractual provisions related to confidentiality, that are to be interconnected with this project site. Disclose in technical detail the proposed method of interconnection. Confidential sites may be identified generally.
- I. Disclose by licensee call sign all build-out requirements/obligations which have yet to be met of all wireless providers that the applicant is under contract to build in the City of Los Altos, and the known or estimated date when the remaining build-out requirements will be met.
- J. Identify by name, title, company affiliation, work address, telephone number and extension, and email address the key person or persons most knowledgeable regarding this Project so that the City may contact them with questions regarding the Project:

ENCROACHMENT PERMIT APPLICATION

The applicant is hereby given temporary permission to construct and maintain wireless communication systems at 182 Garland Way, as shown on the attached drawings. This permission shall cease at such time as the City Engineer determines that said improvements or the applicant's use thereof is detrimental to the City.

The above permission is given subject to the following conditions:

1. The applicant, their heirs, executors, administrators, successors, and assigns, agree to indemnify and hold harmless the City of Los Altos, its officers, and employees against all claims, liabilities, and losses arising out of construction, existence, and future abandonment/destruction of the subject wireless communication systems and all other associated appurtenances. In addition, the applicant shall be responsible for the repair of all damage to roadways, sidewalks, curb and gutter, sewer mains and laterals, traffic signals and conduits, street lights and conduits, irrigation systems including controllers and conduits, or landscaping resulting from the construction/abandonment of the work proposed to be completed under the conditions of this permit, and shall be responsible for repairing or replacing such damaged areas.
2. Construction and destruction/abandonment of the work may be done on weekdays or Saturdays. Weekday work shall be limited to the hours of 8:00 AM and 6:00 PM., except as noted in the lane closure restrictions described in Item 3. Saturday work shall be performed during the hours of 9:00 AM and 6:00 PM.
3. Traffic control and adequate protection of the public in the vicinity of the work site shall be the responsibility of the applicant. Lane closures shall conform to the requirements established in the State of California Traffic Manual, and the State Standard Plans and Specifications.
4. The applicant shall notify the three closest adjacent property owners to the installation and the three closest property owners directly across the street from the installation at least 10 days prior to commencement of any work. In addition, the applicant shall notify the City Communications Department at (650) 948-8223 of street/alley and lane closures at least 24 hours prior to any work. Furthermore, the contractor shall notify the city's Traffic Engineer at least 48 hours in advance of any excavations within 100 feet of any traffic signals.
5. Contractor shall positively locate by hand digging all traffic signal conduit and irrigation controller conduit adjacent to traffic signals. Any damage repair to signal equipment or irrigation controller equipment shall be completed by a qualified electrical contractor immediately at the contractor's expense, and before proceeding with any other work. Traffic signal detector loop replacement shall be replaced within 48 hours of being damaged. The contractor is encouraged to use the City's signal maintenance contractor, Bear Electric, for any traffic signal repair work at the contractor's expense.
6. Asphalt concrete section for trench backfill shall be a thickness equal to the existing pavement, or 4-inches thick minimum, whichever is greater.

7. Completed Certificates of Insurance naming the City of Los Altos, its elective and appointed boards, officers, agents and employees as additional insured must be completed and submitted to the City by the owner, prior to beginning any work in the public right of way. Insurance shall remain in force during the entire time that the public right-of-way facilities are in use and shall provide the above certificate to the City on an annual basis.
8. The applicant shall comply with the National Pollutant Discharge Elimination System Permit in effect at the time of the application, and shall continue to comply with the Permit as amended by the State Water Board from time to time.
9. The applicant understands that the City continues to pursue future utility undergrounding. In the event a pole or poles used by the applicant are selected for undergrounding or relocation of mounted utilities, the applicant will be required to remove all equipment placed on the pole at his/her expense. The applicant agrees that the City is not obligated to provide alternate space for applicant's use should removal of a facility be directed to accomplish utility undergrounding.
10. The applicant shall maintain the distributed antenna system in good repair at the discretion of the City Engineer.
11. The applicant shall remove the entire distributed antenna system structures within 90 days when such system is abandoned.

I hereby agree to the terms of this Encroachment Permit:

Laura Meiners, Site Dev Agent
Name/Title

SureSite Consulting
Company

Laura Meiners
Signature

7-30-19
Date

CERTIFIED NOTIFICATION LIST AFFIDAVIT

**CITY OF LOS ALTOS
STATE OF CALIFORNIA
COUNTY OF SANTA CLARA**

I, Robert Castro, hereby certify that the attached list contains the names and addresses of all persons to whom all property is assessed as they appear on the latest available assessment roll of the County within the area described on the attached notice and for a distance of two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, further certify that the attached list of occupants reflect all residential addresses within two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, certify under penalty of perjury that the foregoing is true and correct.

Robert Castro

Signature

June 21, 2019

Date the notices were mailed out

Location:

Public right of way near 182 Garland Way

37.3846400, -122.1157800

CRAN_RSFR_LOSA0_08

1 167-30-019
GROVE EVA KASTAN TRUSTEE
131 GARLAND WAY
LOS ALTOS CA 94022

2 167-30-021
SRINIVAS D TALLAPRAGADA
167 GARLAND WAY
LOS ALTOS CA 94022

3 167-30-022
ZANE C & M A ROWE
187 GARLAND WAY
LOS ALTOS CA 94022

4 167-30-023
WAVECHO LLC
4546 EL CAMINO REAL #226
LOS ALTOS CA 94022

4 167-30-023
OCCUPANT
191 GARLAND WAY
LOS ALTOS CA 94022

5 167-30-024
RAKESH & JABINA RAMDE
211 GARLAND WAY
LOS ALTOS CA 94022

6 167-30-025
GUIV PARINEH
184 UNIT-A PLAZA SOUTH
LOS ALTOS CA 94022

6 167-30-025
OCCUPANT
221 GARLAND WAY
LOS ALTOS CA 94022

7 167-30-027
BRIAN R WONG
198 GARLAND WAY
LOS ALTOS CA 94022

8 167-30-028
WEI YU & TSEUNG MING SHI
182 GARLAND WAY
LOS ALTOS CA 94022

9 167-30-029
ALLAN C KRAMER
280 SECOND ST #100
LOS ALTOS CA 94022

9 167-30-029
OCCUPANT
166 GARLAND WAY
LOS ALTOS CA 94022

10 167-30-030
PHILIP S & ELAYNE R DAUBER
148 GARLAND WAY
LOS ALTOS CA 94022

11 167-30-031
ELIZABETH B NASH
1224 SANTA CRUZ AVE
MENLO PARK CA 94025

11 167-30-031
OCCUPANT
130 GARLAND WAY
LOS ALTOS CA 94022

12 167-30-037
ROGER J & MILDRED D TONNESEN
161 HAMILTON CT
LOS ALTOS CA 94022

13 167-30-038
DAVIS E & ALYCE M BOSTER
171 HAMILTON CT
LOS ALTOS CA 94022

14 167-30-047
DAVID A & STACEY E MORGAN
141 HAMILTON CT
LOS ALTOS CA 94022

15 167-30-048
KATHERINE LOUGHRIDGE
151 HAMILTON CT
LOS ALTOS CA 94022

16 167-30-056
SHERRY PAI
166 N SAN ANTONIO RD
LOS ALTOS CA 94022

17 167-30-057
QIANG & ZHANG YING LI
186 N SAN ANTONIO RD
LOS ALTOS CA 94022

18 167-30-060
MARY CARLOTTA
209 CHERRY AVE
LOS ALTOS CA 94022

19 167-30-063
JONAS & ROSALIND BORDO
216 GARLAND WAY
LOS ALTOS CA 94022

20 167-30-067
GUOCONG SONG
22 ALMENDRA LN
LOS ALTOS CA 94022

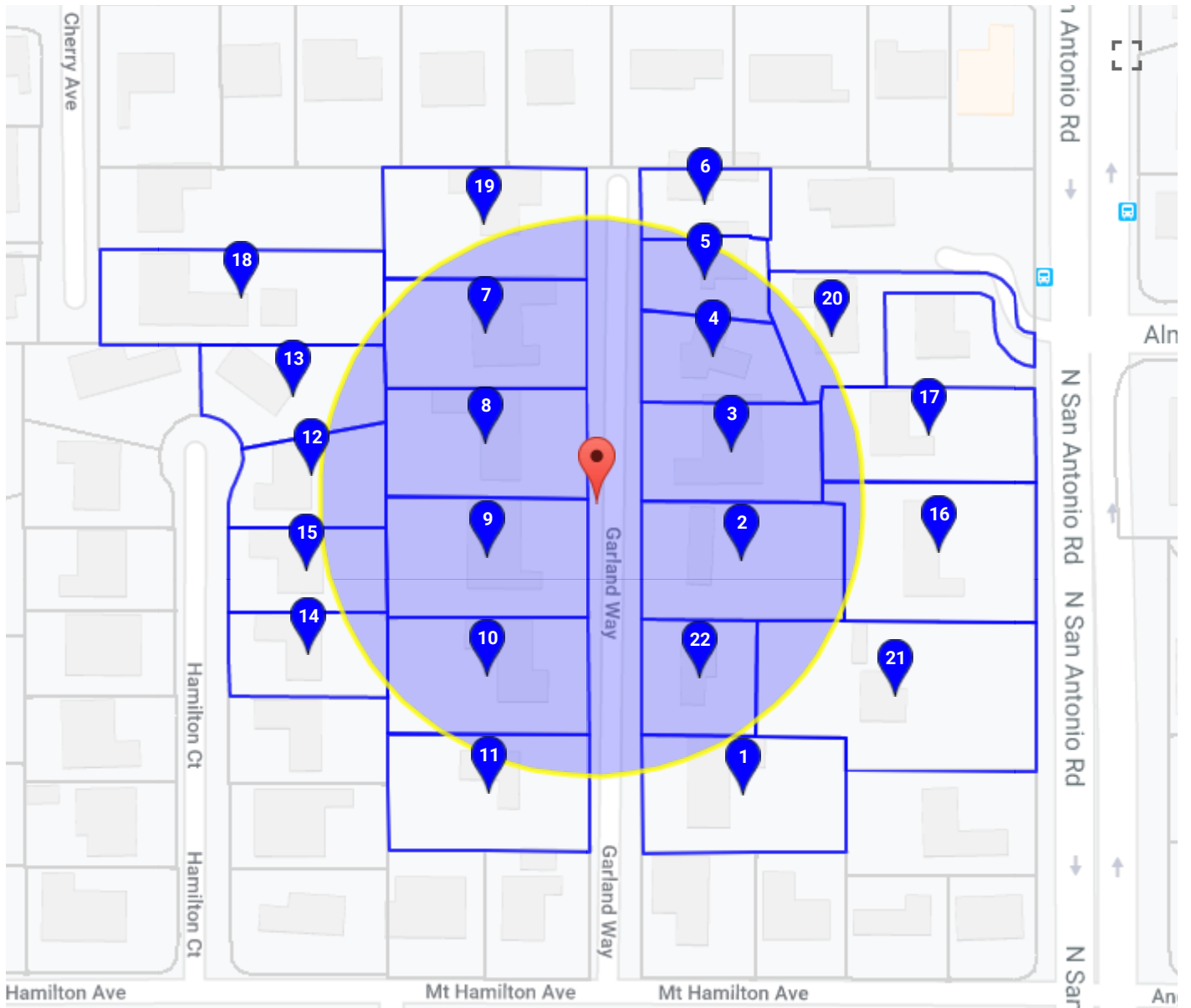
21 167-30-069
RONALD W & GAY B DUVAL
146 N SAN ANTONIO RD
LOS ALTOS CA 94022

22 167-30-070
RONALD W & GAY B DUVAL
146 N SAN ANTONIO RD
LOS ALTOS CA 94022

IVAN TOEWS
SURESITE CONSULTING
2033 GATEWAY PL 6TH FLR
SAN JOSE CA 95110

CHRIS ELDRIDGE
ERICSSON
6140 STONERIDGE MALL ROAD SUITE 350
PLEASANTON CA 94588

CHRIS KERR
AT&T MOBILITY
5001 EXECUTIVE PARKWAY 4W750EE
SAN RAMON CA 94568





AT&T is working to improve wireless service in City of Los Altos!

June 10, 2019

Dear Neighbor,

AT&T Mobility proposes to install a state-of-the-art wireless communication small cell node facility on existing wood utility pole located in the City of Los Altos public right-of-way near 182 GARLAND WAY. The equipment to be initially installed includes one (1) antenna, two (2) radio units, and one (1) emergency power shut off. This equipment is designed to increase capacity in high demand areas and should increase wireless connection reliability for AT&T customers. See attached schematic for more information about the placement and size of equipment currently proposed to be installed. All equipment will be painted to match the pole.

This proposed small cell node is part of a greater network that will provide and enhance current cutting edge and future AT&T wireless voice and data service to the surrounding area, improving wireless capabilities and public safety connectivity. Although experiences with wireless services vary based on specific location and usage times, the wireless service proposed by this facility will help meet existing, fluctuating and future demands.

Map of Pole Location

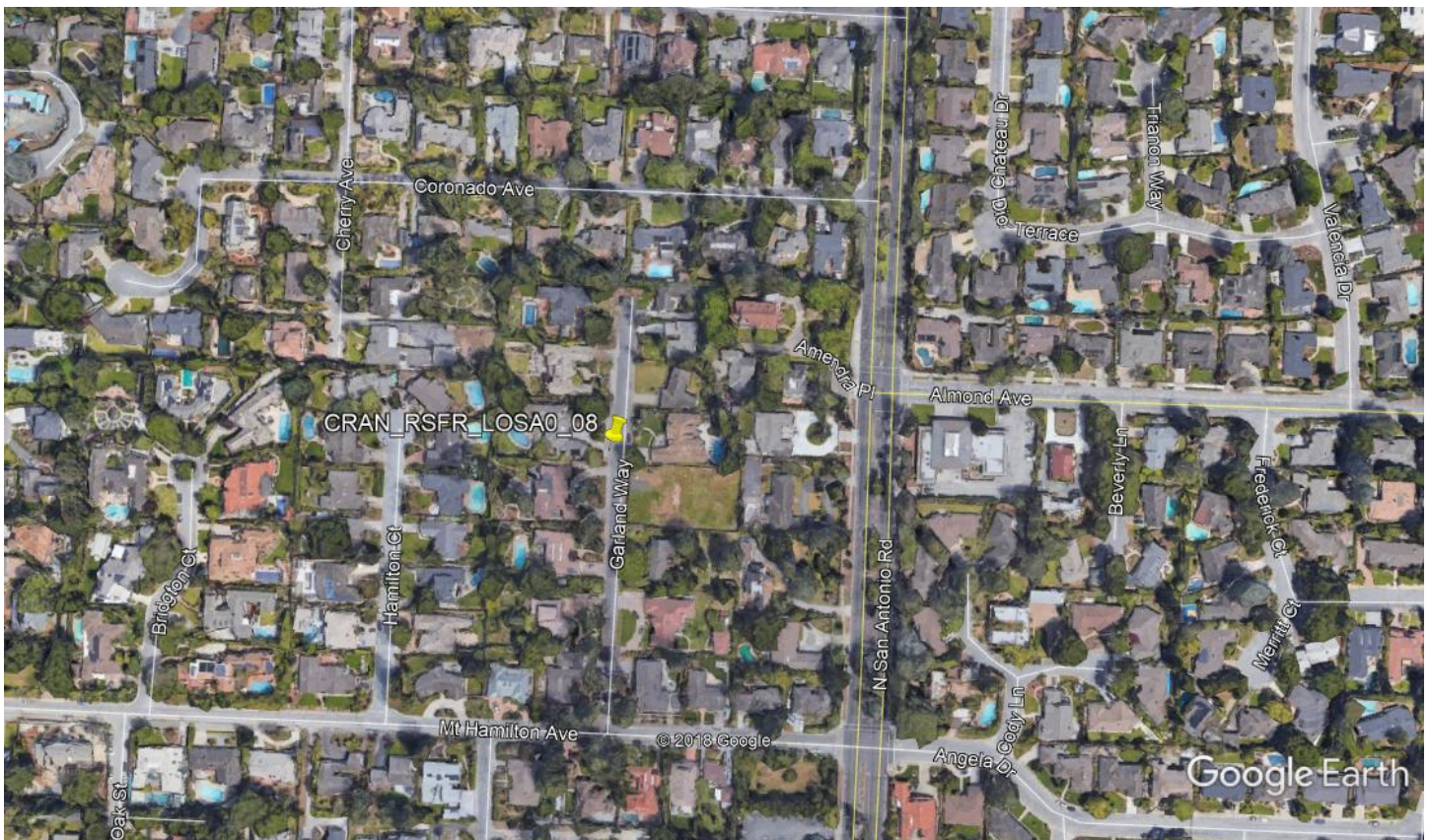




Photo of Existing Pole



Want to learn more?

Please contact AT&T's small cell project voice mailbox at 949-247-8686 or email escsd@sure-site.com should you have any comments or questions about the proposal.

Thank you.

Sincerely,

Angela Kung
AT&T Director - External Affairs



CRAN_RSFR_LOSAO_08

182 GARLAND WAY LOS ALTOS CA 94022



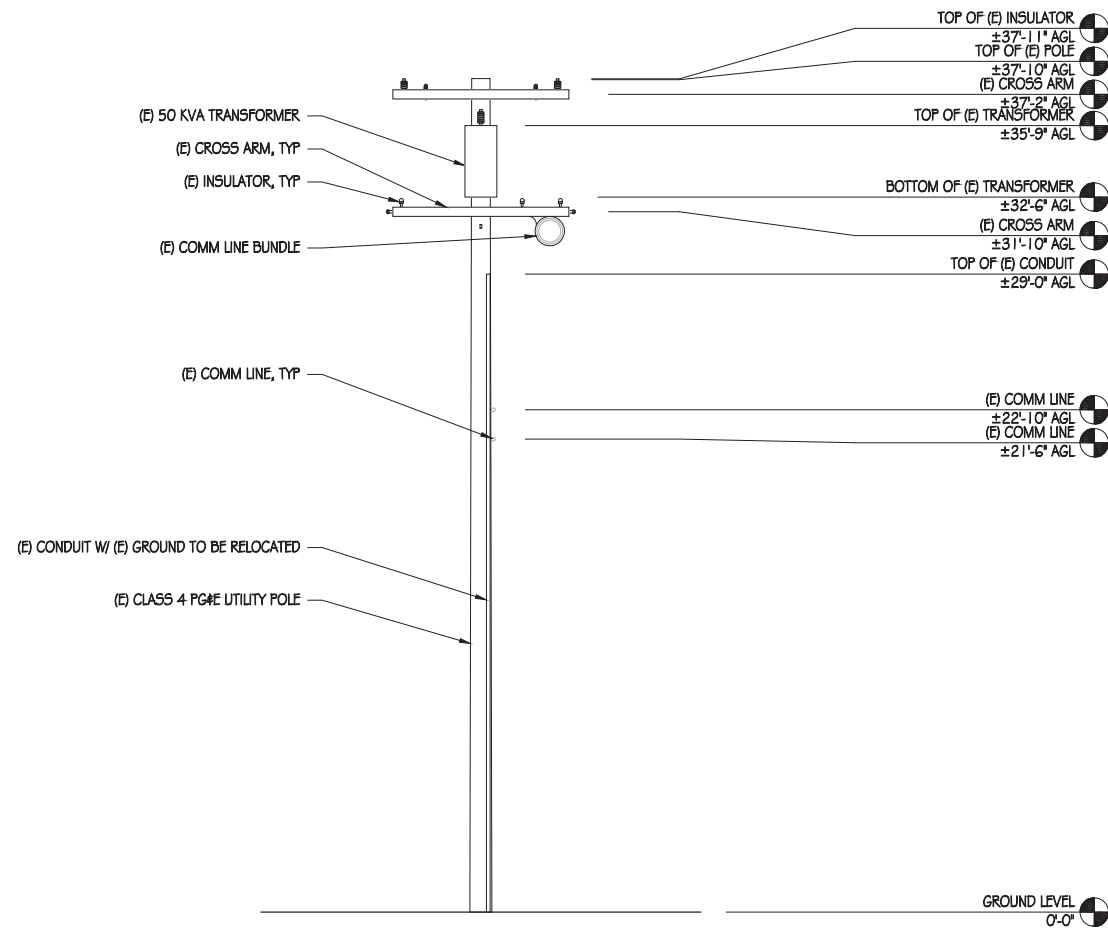
VIEW 1



EXISTING

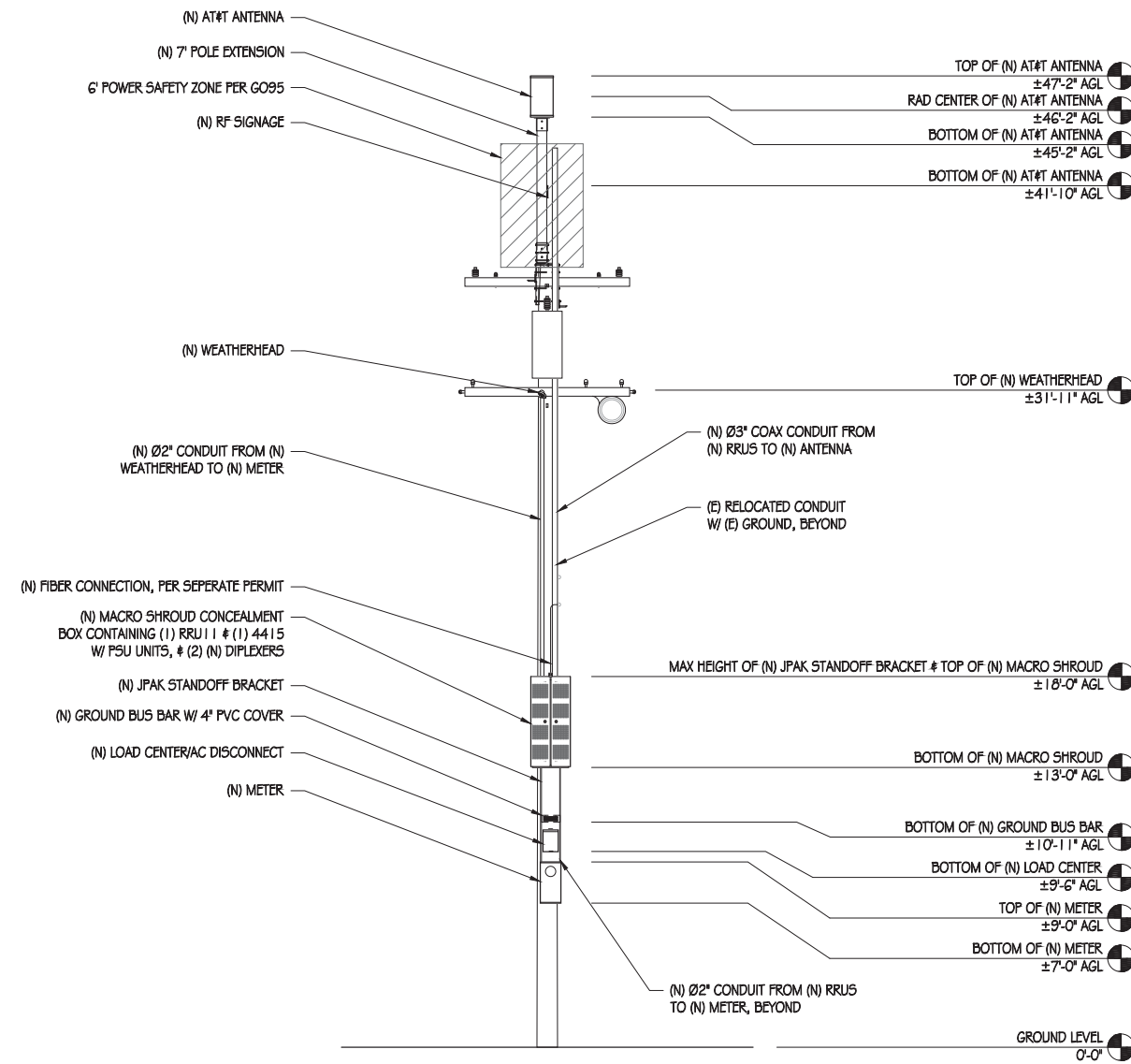


PROPOSED LOOKING NORTHWEST FROM GARLAND WAY



EXISTING SOUTH ELEVATION

1/4" = 1'-0"



NEW SOUTH ELEVATION

1/4" = 1'-0"

NOTE: COMM SERVICE DROPS WILL NEED TO BE RELOCATED TO CLEAR CLIMBING SPACE



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdind.com
11708 Alwood Rd., Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. AND SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE ENGINEER, DESIGNER, ARCHITECT, OR OTHER PROFESSIONAL PARTY WITH WHICH CONSULTING ENGINEER, ARCHITECT, DESIGNER, OR OTHER PROFESSIONAL PARTY IS ASSOCIATED.



CRAN_RSFR_LOSAO_08

ROW ADJCT TO 182 GARLAND WAY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/20/18	CD 90%
	11/01/18	CD 100%

DRAWN BY: T. JONES

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 06/20/18

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

A-3

AT&T Mobility Radio Frequency Statement
Los Altos CA Small Cell Node 8

AT&T has experienced an unprecedented increase in mobile data use on its network since introduction of the iPhone in 2007. AT&T estimates that since introduction of the of the iPhone in 2007, mobile data usage has increased 470,000% on its network. AT&T forecasts its customers' growing demand for mobile data services to continue. The increased volume of data travels to and from customers' wireless devices and AT&T's wireless infrastructure over limited airwaves — radio frequency spectrum that AT&T licenses from the Federal Communications Commission ("FCC").

Spectrum is a finite resource and there are a limited number of airwaves capable and available for commercial use. Wireless carriers license those airwaves from the FCC. To ensure service quality, AT&T must knit together its spectrum assets to address customers' existing usage and forecasted demand for wireless services, and it must use its limited spectrum in an efficient manner.

AT&T uses high-band (i.e., 2300 MHz, 2100 MHz, and 1900 MHz) and low-band (i.e., 850 MHz and 700 MHz) spectrum to provide wireless service. Each spectrum band has different propagation characteristics and signal quality may vary due to noise or interference based on network characteristics at a given location. To address this dynamic environment, AT&T deploys multiple layers of its licensed spectrum and strives to bring its facilities closer to the customer. To address the existing and forecasted demand and to support 5G speeds in the near future, AT&T plans to deploy small cell facilities within public rights-of-way.

The service coverage gap is caused by inadequate infrastructure in the area. AT&T currently has existing sites in the broader geographical area but as Exhibit 1 illustrates, these existing sites do not provide sufficient high-band, in building LTE service in the gap area. To meet its coverage objectives, AT&T needs to construct a new wireless communications facility. In order to provide high-band LTE service coverage in this portion of the city, AT&T needs to place its small cell node approximately mid way along Garland Way. Denial of this proposed facility would materially inhibit AT&T's ability to provide and improve wireless services in this portion of the city. The proposed small cell facilities will help close gap in coverage and help address increasing data usage, voice, and other wireless services driven by smart phones and tablet usage. This node is part of an effort to fully deploy 4G LTE technology in the area. Specifically, the proposed facility will close this service gap and provide sufficient high-band 4G LTE, in building coverage for AT&T customers in the affected area. 4G LTE is capable of delivering speeds up to 10 times faster than industry – average 3G speeds. LTE technology also offers lower latency, or the processing time it takes to move data through a network, such as how long it takes to

start downloading a webpage or file once you've sent the request. Lower latency helps to improve the quality of personal wireless services. What's more, LTE uses spectrum more efficiently than other technologies, creating more space to carry data traffic and services and to deliver a better overall network experience.

The proposed node on a pole in the public rights-of-way at 7182 Garland Way is needed to close the high-band LTE service coverage in an area bordered roughly by Sylvian Way to the north, end of Coronado Avenue to the west, Mt Hamilton Avenue to the south and Chateau Drive to the east. This portion of Los Altos is primarily residential neighborhoods with dozens of homes.

It is important to understand that service problems can and do occur for customers even in locations where the coverage maps on AT&T's "Coverage Viewer" website appear to indicate that coverage is available. As the legend to the Coverage Viewer maps indicates, these maps display approximate coverage. Actual coverage in an area may differ from the website map graphics, and it may be affected by such things as terrain, weather, network changes, foliage, buildings, construction, high-usage periods, customer equipment, and other factors.

It is also important to note that the signal losses, slow data rates, and other service problems can and do occur for customers even at times when certain other customers in the same vicinity may not experience any problems on AT&T's network. These problems can and do occur even when certain customers' wireless phones indicate coverage bars of signal strength on the handset. The bars of signal strength that individual customers can see on their wireless phones are an imprecise and slow-to-update estimate of service quality. In other words, a customer's wireless phone can show coverage bars of signal strength, but that customer will still, at times, be unable to initiate voice calls, complete calls, or download data reliably and without service interruptions due to service quality issues.

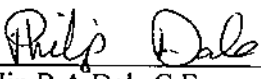
To determine where new equipment needs to be located for the provisioning of reliable service in any area, AT&T's radio frequency engineers rely on far more complex tools and data sources than just signal strength from individual phones. AT&T uses industry standard propagation tools to identify the areas in its network where signal strength is too weak to provide reliable in-building service quality. This information is developed from many sources including terrain and clutter databases that simulate the environment, traffic maps that simulate the density of users in the environment, and propagation models that simulate signal relative to interference in the presence of terrain and clutter variation. AT&T designs and builds its wireless network to ensure customers will receive reliable in-building service quality and data rates sufficient to stream video and complete calls. In-building service is critical as customers

increasingly use their mobile phones as their primary communication devices (more than 72% of American households rely primarily or exclusively on wireless telecommunications) and rely on their mobile phones to do more (E911, video streaming, GPS, web access, text, etc.). In fact, the FCC estimates that 70% of 911 calls are placed by people using wireless phones. And with AT&T's selection by FirstNet as the wireless service provider to build and manage the nationwide first responder wireless network, each new facility will help strengthen first responder communications.

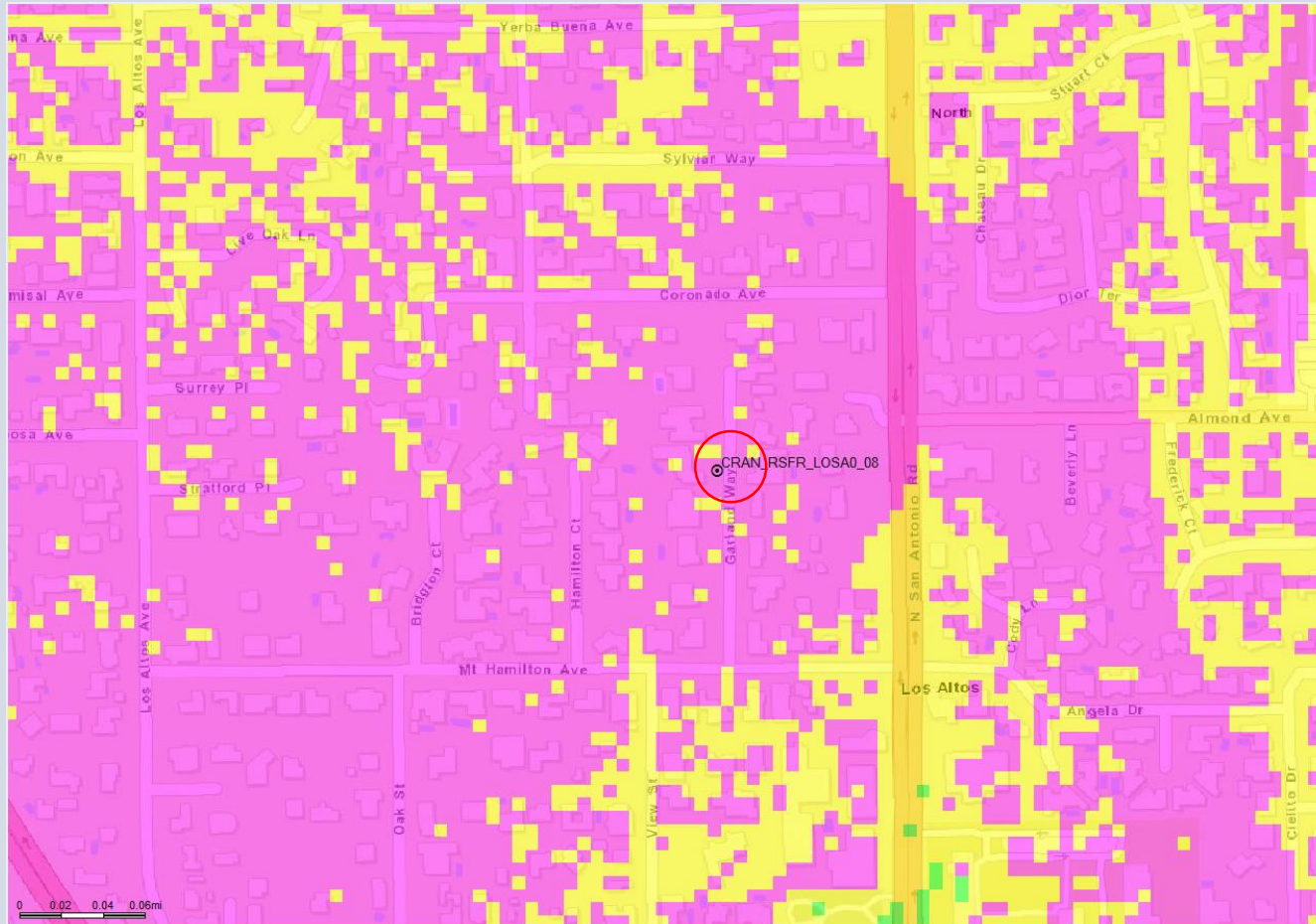
Exhibit 1 is a map of the existing high -band LTE service coverage (without the proposed small cell node). It includes high-band LTE service coverage provided by other existing AT&T sites. The green shaded areas of the map depict acceptable in-building coverage. In-building coverage means customers are able to place or receive a call on the ground floor of a building. The yellow shaded areas depict areas within a signal strength range that provide acceptable in-vehicle service coverage. In these areas, an AT&T customer should be able to successfully place or receive a call within a vehicle. The lavender shading depicts areas within a signal strength range in which a customer might have difficulty receiving a consistently acceptable level of service. The quality of service experienced by any individual customer can differ greatly depending on whether that customer is indoors, outdoors, stationary, or in transit. Any area in yellow or lavender category is considered inadequate service coverage and constitutes a service coverage gap.

Exhibit 2 to this statement is a map that predicts high-band LTE service coverage based on signal strength in the vicinity if the proposed small cell node is constructed as proposed. As shown by this map, constructing the proposed small cell node here closes this significant service coverage gap.

My conclusions are based on my knowledge of the proposed small cell locations and with AT&T's wireless network in the surrounding area. I have a B.Sc. degree in Micro-Electronic System Design from University of Ulster, UK, am a Chartered Engineer, and have worked as an engineering expert in the wireless communications industry for more than 33 years.


Philip B A Dale C Eng
AT&T Mobility Services LLC
Network, Planning & Engineering
RAN Design & RF Engineering
July 19, 2019

LTE 1900 Coverage without Small Cell LOSA0_08



Legend [X]

Coverage_RSRP (dBm)

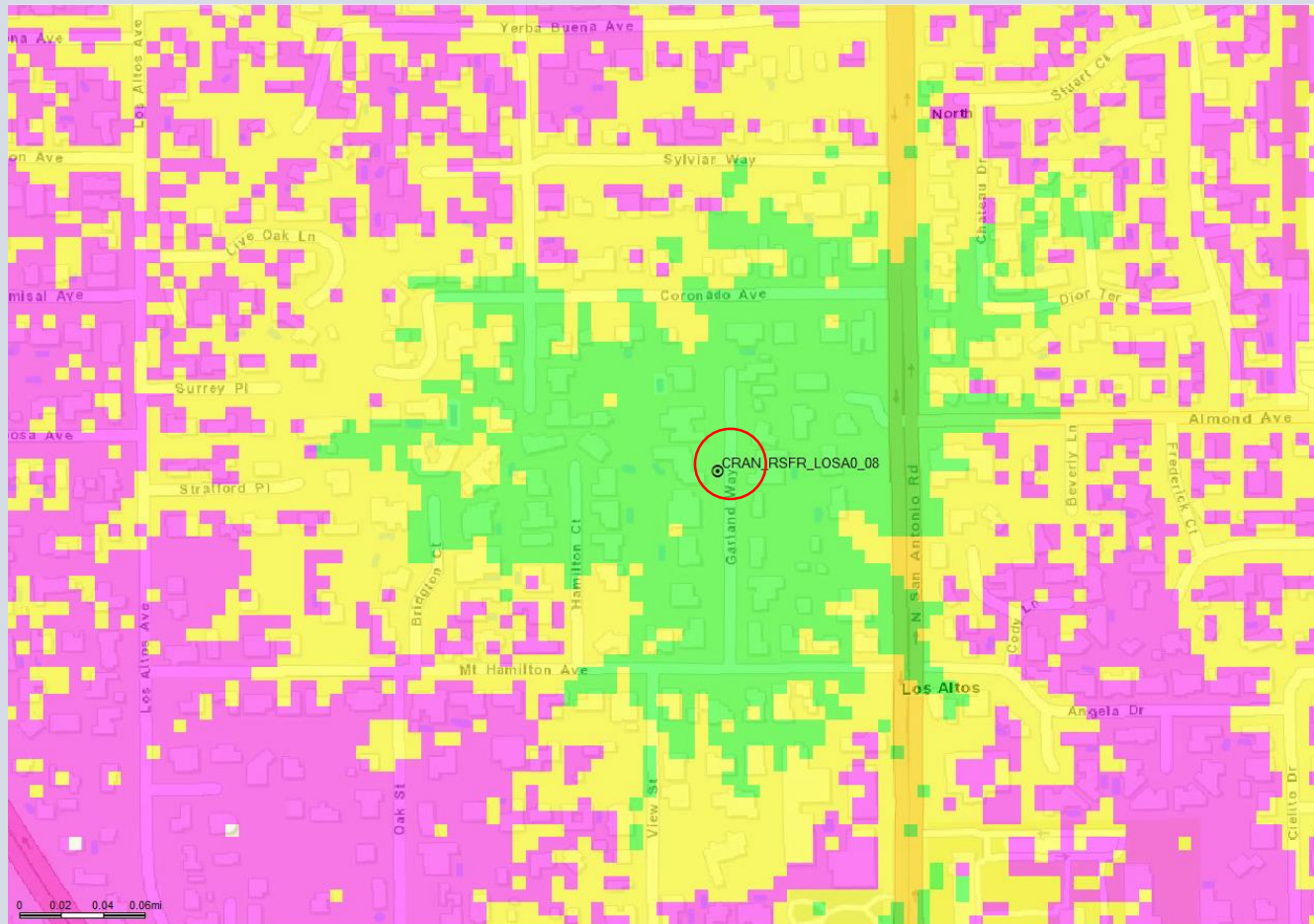
- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

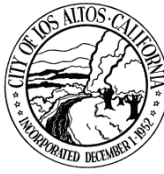
Macro site

Proposed small cell Nodes



LTE 1900 Coverage with Small Cell LOSA0_08





Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

ENCROACHMENT PERMIT No. E19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed plan/drawing showing the proposed work):

LOCATION OF WORK: 491 Patrick Way

TYPE OF WORK: Install equipment on new utility pole. (PG&E to perform pole replacement under separate excavation permit)

CONTRACTOR: Ericsson, Delbert Butcher **PHONE #** 720-317-7282

OWNER: PG&E, Jwo Cheng **PHONE #** 650-515-9842

APPLICANT: AT&T Mobility (New Cingular Wireless PCS),
Ivan Toews, SureSite Consulting, Agent **PHONE #** 949-278-2962

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any work in the traveled way section of a street.
- Applicant to construct Driveway/Walkway approach to the back of the existing rolled curb, without tying to the existing curb (cold joint).
- All work done in the City ROW shall comply with the City's Shoulder Paving Policy.
- Applicant shall provide adequate drainage with 3' wide AC swale (minimum of 4" AB plus 2" AC or 4" AC on compacted subbase is required) and conforms to existing street drainage.
- Contractor will be required to saw cut along the existing road pavement due to severe damaged edge.
- New sidewalk or curb shall be constructed per City Standards and connected to existing sidewalk or curb with #4, 16" long dowels @ 12"o.c. All saw cuts to be done at existing joints.
- Comments: _____

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ **DATE:** _____

ISSUED BY: _____ **DATE:** _____

SIGNATURE

INSPECTED BY: _____ **FINAL INSPECTION DATE:** _____

ATTACHMENT:

YES _____ **\$196.00** CREDIT CHECK CASH

NO _____

Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant and Finance

PERMIT VALID FOR 60 DAYS
 (See other side for General Requirements)

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B.** Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C.** The City may require modifications to this permit as needed because of special field conditions.
- D. NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E.** This permit does not authorize excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F.** This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G.** This permit is valid for **sixty (60) days** from the approval date unless otherwise noted.
- H.** Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- I.** Use of a Flashing Arrow Panel is **MANDATORY** when work location is within a 35 MPH speed zone.
- J.** Traffic conditions and adequate protection of the public in the vicinity of the job site shall be the responsibility of the applicant. During construction activities, two-way traffic shall be maintained. A minimum of one traffic lane shall be kept passable and under the control of competent flag persons. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable.
- K.** Any damage to painted street pavement delineations, markings or reflectors and painted curbs shall be restored as approved by the Engineer.
- L.** Excavations within the asphalt street section shall be backfilled before leaving the work for the night, unless otherwise authorized by the City's representative. Temporary surfacing shall be placed on the trench surface overnight.
- M.** All trench backfill requires certified compaction test to 95% density or greater for each lift (Maximum lift of 12") or use Controlled Density Fill (CDF) as approved.
- N.** All work shall be performed in accordance with the latest issue of Cal O.S.H.A. Safety Orders. The City has not checked trench safety and trench safety is not implied with this permit.
- O.** Landscaping is **NOT** to be disturbed any more than absolutely necessary. Restoration shall be to property owner's satisfaction.
- P.** Drainage patterns during construction shall be maintained to insure that surface drainage is properly managed and surrounding areas are protected from damage. Restoration must be to grades necessary to maintain original condition and maintain proper drainage flow lines.

Q. Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

R. All saw cut sludge/slurry should be immediately removed by means of a vacuum system.

EXHIBIT B INSURANCE

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022

Minimum Scope of Insurance

Coverage shall be *at least as broad as*:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.

3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.

4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability

insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.

6. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the umbrella or excess policy with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations. If CONSULTANT maintains broader coverage, umbrella or excess coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage, umbrella or excess coverage and/or the higher limits maintained by CONSULTANT. Any available insurance proceeds in excess of the specified minimum limits of insurance and any other coverages shall be available to the CITY.

Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy and the Automobile Liability policy, with endorsements under CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage, with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations.

Primary Coverage. For any claims related to this contract, the CONSULTANT’s insurance coverage shall be primary insurance as respects the CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, or volunteers shall be excess of the CONSULTANT’s insurance and shall not contribute with it.

Notice of Cancellation. Each insurance policy required above shall be endorsed to state that coverage shall not be canceled except after thirty (30) days’ prior written notice (10 days for non-payment) has been given to the CITY.

Waiver of Subrogation. CONSULTANT hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONSULTANT may acquire against the CITY by virtue of the payment of any loss under such insurance. CONSULTANT agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by the CITY. The CITY may require the CONSULTANT to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

Claims Made Policies. If any of the required policies provide claims-made coverage:

7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.
8. Insurance must be maintained and evidence of insurance must be provided *for at least three (3) years after completion of the contract work.*

9. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONSULTANT must purchase “extended reporting” coverage for a minimum of *three (3)* years after completion of contract work.

Verification of Coverage. CONSULTANT shall furnish the CITY with original certificates and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the CITY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONSULTANT’s obligation to provide them. The CITY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

TEMPORARY LANE CLOSURE PERMIT LC19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed drawing showing the proposed location(s)):

LOCATION: 491 Patrick Way
 TYPE OF WORK: Install equipment on new utility pole. (PG&E to perform pole replacement under separate excavation permit)
 DATE(S) REQUESTED: 3/21/2019
 CONTRACTOR: Ericsson, Delbert Butcher PHONE # 720-317-7282
 OWNER: PG&E, Jwo Cheng PHONE # 650-515-9842
 APPLICANT: AT&T Mobility (New Cingular Wireless PCS), PHONE # 949-278-2962
Ivan Toews, SureSite Consulting, Agent

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any lane or road closure.
- Comments:**

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ DATE: _____
 ISSUED BY: _____ DATE: _____
 _____ SIGNATURE
 INSPECTED BY: _____ FINAL INSPECTION DATE: _____

APPLICATION FEE (includes the first day):	\$ 505.00
0 additional days at \$62/day:	\$ -
TOTAL FEES:	\$ 505.00

ATTACHMENT:

YES Traffic Control Plan CREDIT CHECK CASH
 NO _____ Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant, Police Department, and Finance

PERMIT VALID FOR _____ DAYS
 See other side for General Requirements

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B.** Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C.** The City may require modifications to this permit as needed because of special field conditions.
- D. NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E.** This permit does not authorize any excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F.** This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G.** Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- H.** Use of a Flashing Arrow Panel is MANDATORY when work location is within a 35 MPH speed zone.
- I.** Traffic conditions and adequate protection of the public in the vicinity of the stall(s) shall be the responsibility of the applicant. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable
- J.** Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

**EXHIBIT B
INSURANCE**

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022
Minimum Scope of Insurance

Coverage shall be *at least as broad as:*

CONSULTANT shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: **Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022**

Minimum Scope of Insurance

Coverage shall be *at least as broad as:*

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.
3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.
4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.
6. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the umbrella or excess policy with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations. If CONSULTANT maintains broader coverage, umbrella or excess coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage, umbrella or excess coverage and/or the higher limits maintained by CONSULTANT. Any available insurance proceeds in excess of the specified minimum limits of insurance and any other coverages shall be available to the CITY.

Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy and the Automobile Liability policy, with endorsements under CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage, with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations.

Primary Coverage. For any claims related to this contract, the CONSULTANT’s insurance coverage shall be primary insurance as respects the CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, or volunteers shall be excess of the CONSULTANT’s insurance and shall not contribute with it.

Notice of Cancellation. Each insurance policy required above shall be endorsed to state that coverage shall not be canceled except after thirty (30) days’ prior written notice (10 days for non-payment) has been given to the CITY.

Waiver of Subrogation. CONSULTANT hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONSULTANT may acquire against the CITY by virtue of the payment of any loss under such insurance. CONSULTANT agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by the CITY. The CITY may require the CONSULTANT to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

Claims Made Policies. If any of the required policies provide claims-made coverage:

7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.

8. Insurance must be maintained and evidence of insurance must be provided *for at least three (3) years after completion of the contract work.*
9. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONSULTANT must purchase “extended reporting” coverage for a minimum of *three (3)* years after completion of contract work.

Verification of Coverage. CONSULTANT shall furnish the CITY with original certificates and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the CITY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONSULTANT’s obligation to provide them. The CITY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

October 31, 2018

Suresite for AT&T
36 Executive Park, Suite 210
Irvine, CA 92614

Subj: CRAN_RSFR_LOSA0_009

We have analyzed the wood pole at ROW adjacent to 491 Patrick Way, Los Altos, CA 94022 (37.389814, -122.118869) using O-Calc Pro 5.03 Utility Pole software.

Data for the wood pole was obtained from a previous site walk and photographs on May 23, 2018, as well as Google Earth images. Proposed equipment is provided by our client. Based on our analysis the pole with proposed loading is at 51.6% capacity and may be **considered adequate to support the proposed loads.**

Please contact me if you have any questions.

Sincerely,

Bret McComb, P.E.



Attachments:

1. O-Calc Output: 4 pages
2. Pole Size Chart: 1 page



Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name: CRAN_RSFR_LOSA0_09	Site Structure Type: Utility Pole
Address: 491 Patrick Way Los Altos, California	Latitude: 37.38979
Report Date: October 29, 2018	Longitude: -122.11886
	Project: New Build

General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed CRAN_RSFR_LOSA0_09 site located at 491 Patrick Way, Los Altos, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by AT&T Mobility.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure (“MPE”) limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

Frequency (MHz)	<i>Limits for General Population/ Uncontrolled Exposure</i>		<i>Limits for Occupational/ Controlled Exposure</i>	
	Power Density (mW/cm ²)	Averaging Time (minutes)	Power Density (mW/cm ²)	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

AT&T Mobility proposes the following installation at this location:

- Install 1 KMW FX-OM2L1OH2 Cylindrical Antenna
- Install 1 4415 Radio
- Install 1 RRUS-11 Radio

The antenna will be mounted on a 38.6-foot Utility Pole with a centerline 46.9 feet above ground level. The antenna is quasi-omnidirectional and will radiate in all directions. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 987 Watts. Other appurtenances such as GPS antennas, RRUs and hybrid cable are not sources of RF emissions. From this site, AT&T Mobility will enhance voice and data services to surrounding areas in licensed 700 and 1900 MHz bands. No other antennas are known to be operating in the vicinity of this site.

Power density decreases significantly with distance from any antenna. The quasi-omnidirectional antenna to be employed at this site is operating at relatively low power and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antenna. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.3810% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.9875% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or at adjacent buildings by 5% of the General Population limits.

For areas on the pole that are predicted to exceed the General Population limits, Waterford Consultants, LLC recommends that AT&T Mobility post an RF alerting sign (Caution) on the pole 42 feet above ground level to be visible upon approach by authorized personnel to provide notification of potential conditions above this level. This recommendation is depicted in Figure 2. Any work activity in front of transmitting antennas should be coordinated with AT&T Mobility.

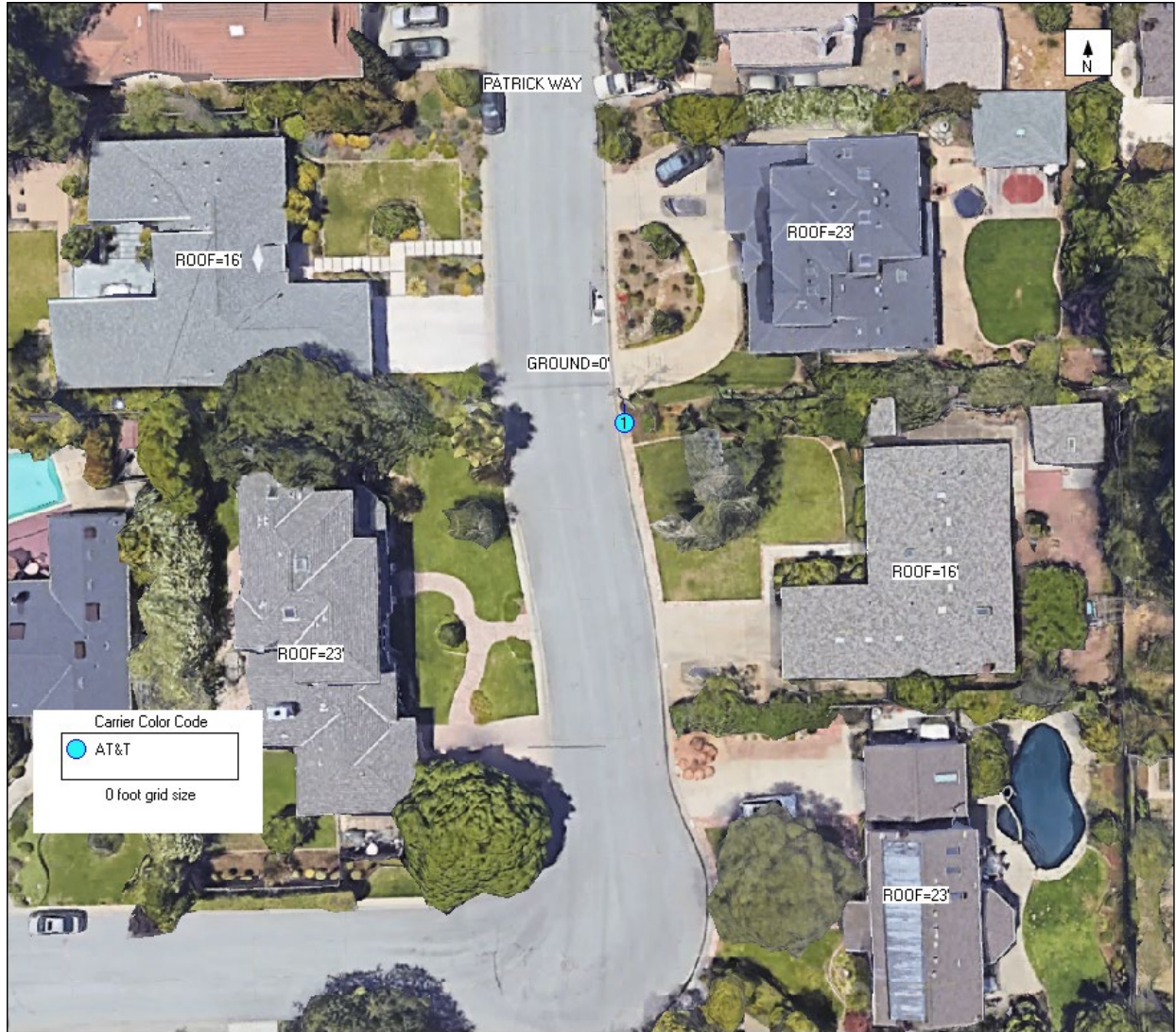


Figure 1: Antenna Locations

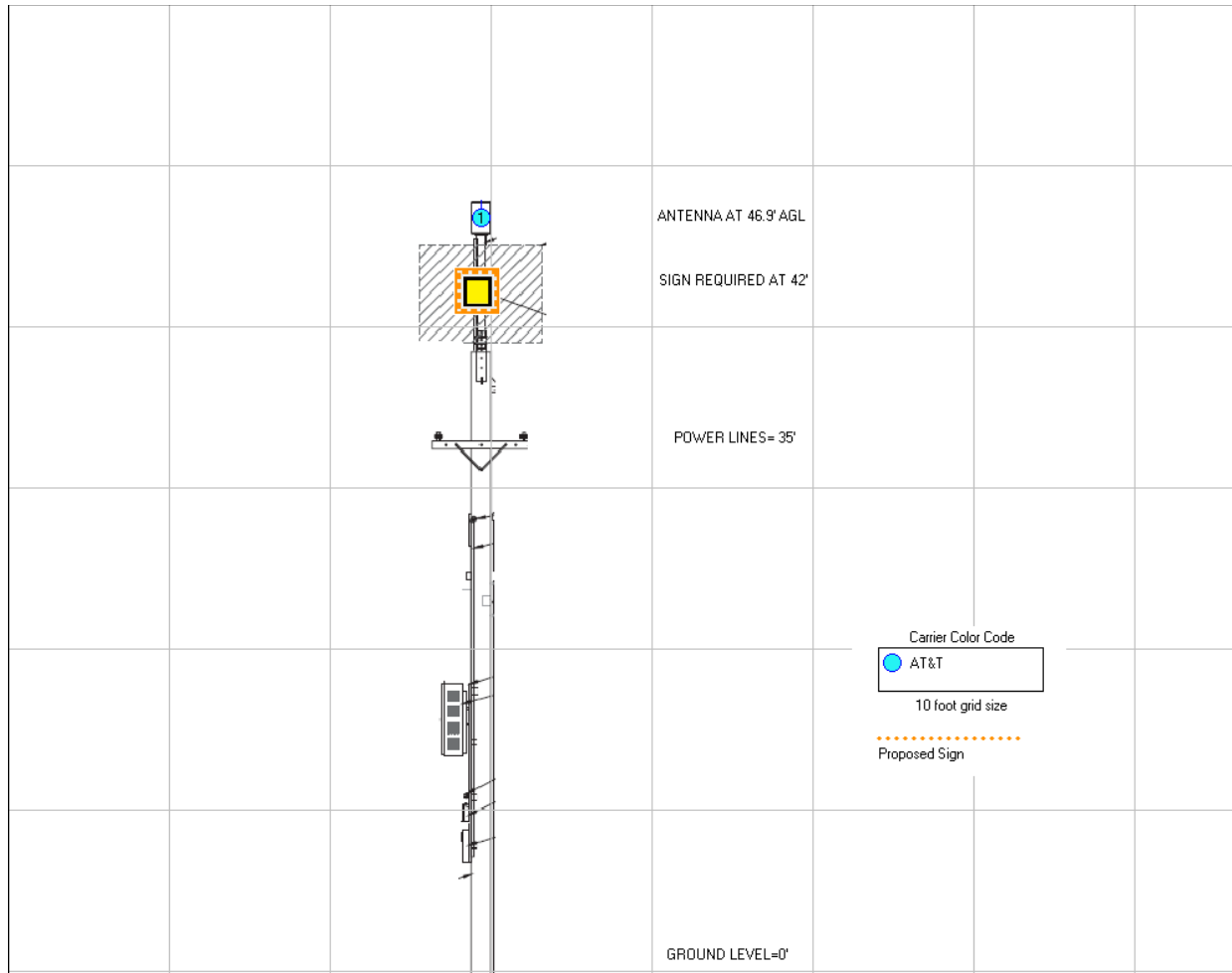


Figure 2: Mitigation Recommendations

 Caution

Compliance Statement

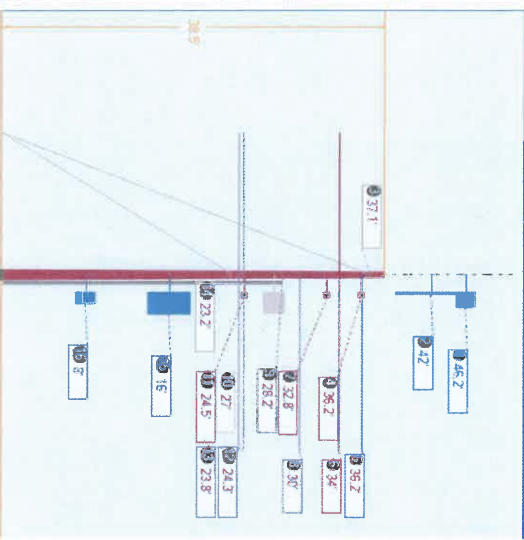
Based on information provided by AT&T Mobility, predictive modeling and the mitigation action to be implemented by AT&T Mobility, the installation proposed by AT&T Mobility at 491 Patrick Way, Los Altos, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to these areas to authorized personnel that have completed RF safety training is required for Occupational environment compliance.

Certification

I, David H. Kiser, am the reviewer and approver of this report and 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, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



Pole Num: CRAN_RSFR_LOSA0_09	Pole Length / Class: 45 / 4	Code: GO 95	Structure Type: Guyed Tangent
Aux Data 1: Unset	Species: DOUGLAS FIR	NESSC Rule: -	Status: Guy Wires Adequate
Aux Data 2: Unset	Setting Depth (ft): 6.50	Construction Grade: B	Pole Strength Factor: 0.50
Aux Data 3: Unset	G/L Circumference (in): 34.82	Loading District: Light	Transverse Wind LF: 1.00
Aux Data 4: Unset	G/L Fiber Stress (psi): 8,000	Ice Thickness (in): 0.00	Wire Tension LF: 1.00
Aux Data 5: Unset	Allowable Stress (psi): 3,919	Wind Speed (mph): 55.90	Vertical LF: 1.00
Aux Data 6: Unset	Fiber Stress Ht. Reduc: No	Wind Pressure (psf): 8.00	
Latitude: 37.389814	Deg Longitude: -122.118869	Deg Elevation: 128.7	Feet



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Crossarm allowance 300 lbs		
Maximum	51.6	0.0
Groundline	51.6	0.0
Vertical	8.0	28.6

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Crossarm allowance 300 lbs		
Max Cap Util	21,925	85.4
Groundline	21,925	85.4
GL Allowable	43,659	85.6

Guy System Component Summary

Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Load From Worst Wind Angle on Pole		Individual Maximum Load	
				Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
▶ Single - 14" - Soil Class 4 • HS 9/32 (Down) • HS 9/32 (Down)	17.0	180.0	23.3	15.3	85.6	20.4	0.0
			37.1	33.5	85.6	47.9	0.0
				41.1	85.6	51.6	0.0

System Capacity Summary:

Adequate

Adequate

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 85.4°												
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)		
Powers	113	13.6	4,145	18.9	9.5	366	30	0	366	9.4		
Comms	362	43.7	10,399	47.4	23.8	919	156	2	920	23.5		
GuyBraces	-131	-15.9	-3,950	-18.0	-9.1	-349	3,117	32	-317	-8.1		
GenericEquipments	121	14.6	2,829	12.9	6.5	250	205	2	252	6.4		
PowerEquipments	34	4.1	1,463	6.7	3.4	129	365	4	133	3.4		
Pole	228	27.5	4,467	20.4	10.2	395	1,015	11	405	10.3		
Crossarms	33	4.0	1,071	4.9	2.5	95	160	2	96	2.5		
Risers	57	6.9	1,103	5.0	2.5	97	28	0	98	2.5		
Insulators	12	1.4	396	1.8	0.9	35	48	0	36	0.9		
Pole Load	829	100.0	21,925	100.0	50.2	1,937	5,125	53	1,990	50.8		
Pole Reserve Capacity			21,734		49.8	1,983			1,929	49.2		

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 85.4°												
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)		
<Undefined>	601	72.5	17,458	79.6	40.0	1,542	4,110	43	1,585	40.4		
Pole	228	27.5	4,467	20.4	10.2	395	1,015	11	405	10.3		
Totals:	829	100.0	21,925	100.0	50.2	1,937	5,125	53	1,990	50.8		

Detailed Load Components:

Power	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at Gl* (ft-lb)
Primary	AAC 1 AWG 7 STRAND PANSY	36.25	30.93	0.3280	1.58	0.078	157.0	0.0	157.0	492	1,416	2	618	2,036
Primary	AAC 1 AWG 7 STRAND PANSY	36.25	30.93	0.3280	1.58	0.078	157.0	0.0	157.0	492	1,416	-2	618	2,033
Secondary	DUPLEX 6 AWG	33.98	30.48	0.5370	1.51	0.071	125.0	270.0	125.0	400	-13,558	-3	5	-13,556
Secondary	DUPLEX 6 AWG	33.98	30.48	0.5370	1.51	0.071	125.0	90.0	125.0	400	13,558	-3	5	13,559
Secondary	DUPLEX 6 AWG	33.98	30.48	0.5370	1.51	0.071	125.0	270.0	125.0	400	-13,558	-1	5	-13,554
Secondary	DUPLEX 6 AWG	33.98	30.48	0.5370	1.51	0.071	125.0	90.0	125.0	400	13,558	-1	5	13,561
Totals:											2,832	-8	1,255	4,079

Comm	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Telco	TELE 1.0	24.33	6.65	1.0000	2.57	0.400	125.0	90.0	125.1	500	12,128	-1	6	12,133
Telco	TELE 1.0	24.33	6.65	1.0000	2.57	0.400	125.0	270.0	125.1	500	-12,128	-1	6	-12,123
Telco	TELE 1.0	23.83	6.68	1.0000	2.57	0.400	125.0	90.0	125.1	500	11,879	-1	6	11,884
Telco	TELE 1.0	23.83	6.68	1.0000	2.57	0.400	125.0	270.0	125.1	500	-11,879	-1	6	-11,874
Telco	TELE 1.0	24.33	6.65	1.0000	3.00	0.400	157.0	0.0	157.1	750	1,449	1	1	2,716
Telco	TELE 1.0	30.00	6.33	1.0000	3.75	0.400	125.0	90.0	125.3	250	7,476	13	8	7,497
Totals:										8,925	10	1,298	10,233	

Generic Equipment	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Cylinder	3" Dia 6' Steel Pipe	42.00	0.36	0.0	0.0	45.48	84.00	--	3.00	--	0	588	588
Cylinder	Antenna-KMWV FX-OM2LI OH2	46.25	0.14	0.0	0.0	20.00	24.00	--	16.00	--	0	896	896
Box	Housing For RRU's	16.00	12.63	0.0	0.0	130.00	53.00	16.00	--	23.00	11	1,209	1,220
Box	100amp Meter	8.00	7.40	0.0	0.0	10.00	24.00	4.63	--	12.00	0	80	80
Totals:										11	2,773	2,784	

Power Equipment	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Transformer	1PH-25KVA	27.00	17.00	90.0	90.0	365.00	28.00	--	22.00	--	515	924	1,439
Totals:										515	924	1,439	

Crossarm	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Normal	CROSSARM 3-1/2 X 4-1/2 X 6	36.25	5.22	180.0	180.0	40.00	4.50	3.50	72.00	-1	57	55
Normal	CROSSARM 3-1/2 X 4-1/2 X 6	32.83	5.42	270.0	270.0	40.00	4.50	3.50	72.00	-18	940	922
Normal	CROSSARM 3-1/2 X 4-1/2 X 6	24.50	5.89	0.0	0.0	40.00	4.50	3.50	72.00	0	77	77
Totals:										-19	1,074	1,054

Riser	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Riser 135.0°	Riser	28.25	5.68	135.0	135.0	28.25	339.00	4.00	4.00	339.00	8	1,077	1,085
Totals:										8	1,077	1,085	

Insulator	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)	
Deadend	Deadend 12.75"	36.25	-30.00	99.9	180.0	3.00	3.80	12.75	8	98	105	
Deadend	Deadend 12.75"	36.25	30.00	260.1	180.0	3.00	3.80	12.75	-7	98	90	
Post	Post Insulator - 15 kV	33.02	-30.00	190.2	0.0	11.00	4.75	11.50	-7	101	94	
Post	Post Insulator - 15 kV	33.02	30.00	349.8	0.0	11.00	4.75	11.50	-3	101	98	
Bolt	Single Bolt	24.33	0.00	180.0	180.0	5.00	3.00	0.00	0	0	0	
Bolt	Single Bolt	23.83	0.00	180.0	180.0	5.00	3.00	0.00	0	0	0	
Bolt	Single Bolt	24.33	0.00	0.0	0.0	5.00	3.00	0.00	0	0	0	
Bolt	Single Bolt	30.00	0.00	90.0	90.0	5.00	3.00	0.00	3	0	3	
Totals:										-7	397	390

Guy Wire and Brace	Owner	Attach Height (ft)	End Height (ft)	LeadSpan Length (ft)	Wire Diameter (in)	Percent Solid (%)	Lead Angle (deg)	Incline Angle (deg)	Wire Weight (lbs/ft)	Rest Length (ft)	Stretch Length (in)
HS 9/32	Down	23.25	0.00	17.00	0.281	75.00	180.0	53.7	0.164	34.09	0.61
HS 9/32	Down	37.08	0.00	17.00	0.281	75.00	180.0	65.2	0.164	46.68	1.03

Guy Wire and Brace (Loads and Reactions)	Elastic Modulus (psi)	Rated Tensile Strength (lbs)	Guy Strength Factor	Allowable Tension (lbs)	Initial Tension (lbs)	Loaded Tension** (lbs)	Maximum Tension* (lbs)	Applied Tension* (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL* (ft-lb)	
HS 9/32	Down	2,300+7	6,400	0.75	4,800	700	2,298	1,609	1,296	954	-76	-1,657	
HS 9/32	Down	2,300+7	6,400	0.75	4,800	700	2,476	1,974	1,791	830	-66	-2,230	
Totals:										3,087	1,783	-142	-3,887

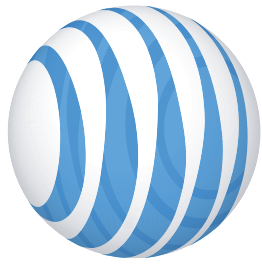
Anchor/Rod Load Summary	Owner	Rod Length AGL (in)	Lead Length (ft)	Lead Angle (deg)	Strength of Assembly (lbs)	Anchor/Rod Strength Factor	Allowable Load (lbs)	Max Load* (lbs)	Load at Pole MCU* (lbs)	Max Required Capacity* (%)
Single - 14" - Soil Class 4		0.00	17.00	180.0	31,000	0.75	23,250	4,750	3,565	20.4

Pole Buckling	Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
	0.71	28.65	34.43	9.96	13.04	6.69	11.09	1,600+6	60.00	57.00	38.50	64,006	640,58	12.50

DOUGLAS FIR POLE SIZING CHART

Class	H-6	H-5	H-4	H-3	H-2	H-1	1	2	3	4	5	6
Minimum Circumference at Top (Inches)	39	37	35	33	31	29	27	25	23	21	19	17
Length of Pole (Feet)	Minimum Circumference at 6 feet from Butt (Inches)											
20	-	-	-	-	-	-	31.0	29.0	27.0	25.0	23.0	21.0
25	-	-	-	-	-	-	33.5	31.5	29.5	27.5	25.5	23.0
30	-	-	-	-	-	-	36.5	34.0	32.0	29.5	27.5	25.0
35	-	-	-	-	43.5	41.5	39.0	36.5	34.0	31.5	29.0	27.0
40	-	-	51.0	48.5	46.0	43.5	41.0	38.5	36.0	33.5	31.0	28.5
45	58.5	56.0	53.5	51.0	48.5	45.5	43.0	40.5	37.5	35.0	32.5	30.0
50	61.0	58.5	55.5	53.0	50.5	47.5	45.0	42.0	39.0	36.5	34.0	-
55	63.5	60.5	58.0	55.0	52.0	49.5	46.5	43.5	40.5	38.0	-	-
60	65.5	62.5	59.5	57.0	54.0	51.0	48.0	45.0	42.0	39.0	-	-
65	67.5	64.5	61.5	58.5	55.5	52.5	49.5	46.5	43.5	40.5	-	-
70	69.0	66.5	63.5	60.5	57.0	54.0	51.0	48.0	45.0	41.5	-	-
75	71.0	68.0	65.0	62.0	59.0	55.5	52.5	49.0	46.0	-	-	-
80	72.5	69.5	66.5	63.5	60.0	57.0	54.0	50.5	47.0	-	-	-
85	74.5	71.5	68.0	65.0	61.5	58.5	55.0	51.5	48.0	-	-	-
90	76.0	73.0	69.5	66.5	63.0	59.5	56.0	53.0	49.0	-	-	-
95	77.5	74.5	71.0	67.5	64.5	61.0	57.0	54.0	-	-	-	-
100	79.0	76.0	72.5	69.0	65.5	62.0	58.5	55.0	-	-	-	-
105	80.5	77.0	74.0	70.5	67.0	63.0	59.5	56.0	-	-	-	-
110	82.0	78.5	75.0	71.5	68.0	64.5	60.5	57.0	-	-	-	-
115	83.5	80.0	76.5	72.5	69.0	65.5	61.5	58.0	-	-	-	-
120	85.0	81.0	77.5	74.0	70.0	66.5	62.5	59.0	-	-	-	-
125*	86.0	82.5	78.5	75.0	71.0	67.5	63.5	59.5	-	-	-	-

* 125' Availability: Untreated Only



at&t

CRAN_RSFR_LOSAO_09

491 PATRICK WAY LOS ALTOS CA 94022



VIEW 1



EXISTING



PROPOSED LOOKING NORTH ALONG PATRICK WAY

AT&T Future Build-out Sites



Name	Address
LOSA0_01	141 Almond Ave
LOSA0_02	687 Linden Ave
LOSA0_03	421 Valencia
LOSA0_04	33 Pine
LOSA0_05	49 San Juan
LOSA0_06	791 Los Altos
LOSA0_07	98 Eleanor
LOSA0_08	182 Garland
LOSA0_09	491 Patrick Way
LOSA0_10	300 Los Altos Ave
LOSA0_11	130 Los Altos
LOSA0_12	356 Blue Oak
SJWE_007	5000 El Camino Real
SJWE_012	4294 El Camino Real



at&t

SITE ID:
SITE ADDRESS:

CRAN_RSFR_LOSAO_009
ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

SITE TYPE:
POLE OWNER:
FA LOCATION:
USID:

PG&E POLE
PG&E
14816598
198292



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

SITE INFORMATION

APPLICANT: AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

AGENT: SURESITE
36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

APN: ADJCT TO 167-27-026

SITE ADDRESS: ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

COUNTY: SANTA CLARA

LATITUDE: 37° 23' 23.33" N (37.389819) NAD 83

LONGITUDE: 122° 07' 07.84" W (-122.118844) NAD 83

GROUND ELEVATION: ± 128.7' AMSL

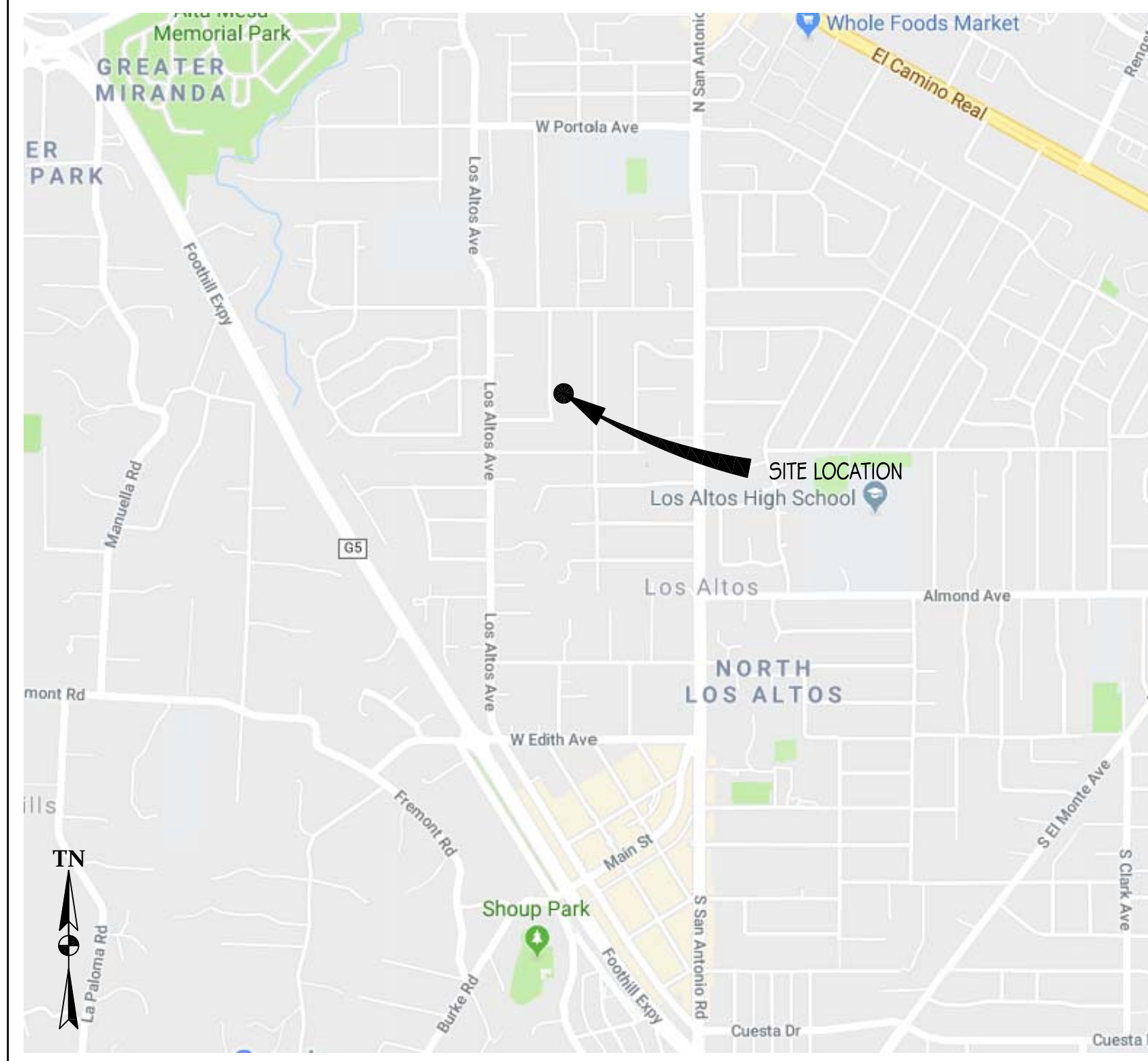
ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

PG&E SAP ID: 100509117

STREET CLASSIFICATION: LOCAL

VICINITY MAP



PROJECT TEAM

AGENT:
SURESITE
36 EXECUTIVE PARK, #210
IRVINE, CA 92614
(949) 278-2962
L.MEINERS@SURE-SITE.COM

PROJECT MANAGERS:
CHRIS JOHNSON
ERICSSON
6140 STONERIDGE MALL RD, SUITE 350
PLEASANTON, CA 94588
(408) 796-8443
CHRISTOPHER.JOHNSON@ERICSSON.COM

CONSTRUCTION MANAGER:
TBD

ARCHITECT/ENGINEER OF RECORD:
BRET McCOMB
PRECISION DESIGN & DRAFTING, INC
11768 ATWOOD ROAD, SUITE #20
AUBURN, CA 95603
(530) 823-6546
BRET@PDND.COM

RF MANAGER:
TBD

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT OF A (N) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK:

- INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON A (N) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON GO95 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRUS-11, (1) RRUS-4415, (2) PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L10H2 CYLINDRICAL ANTENNA.
- ALL EQUIPMENT TO BE PAINTED TO MEET JURISDICTION APPROVAL.
- UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.

DRAWING INDEX

SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
T-2	GENERAL NOTES, LEGEND, & ABBREVIATIONS
A-1	SITE PLAN
A-2	EQUIPMENT PLAN & ANTENNA PLANS
A-3	ELEVATIONS
A-4	ELEVATIONS
A-5	DETAILS
A-6	DETAILS
E-1	SINGLE-LINE DIAGRAM & DETAILS
E-2	GROUNDING DIAGRAMS

CODE COMPLIANCE

- CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:
- 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
 - 2016 CALIFORNIA BUILDING CODE
 - 2016 CALIFORNIA ELECTRICAL CODE
 - 2016 CALIFORNIA MECHANICAL CODE
 - 2016 CALIFORNIA PLUMBING CODE
 - 2016 CALIFORNIA FIRE CODE
 - LOCAL BUILDING CODES
 - CITY/COUNTY ORDINANCES
 - ANSI/EIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
TO: 491 PATRICK WY, LOS ALTOS, CA 94022

- HEAD NORTHEAST ON BISHOP DR. TOWARD SUNSET DR 256 FT
- TURN RIGHT ONTO SUNSET DR 0.1 MI
- TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI
- MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI
- MERGE ONTO I-680 S 3.9 MI
- CONTINUE STRAIGHT TO STAY ON I-680 S 17.5 MI
- TAKE EXIT 12 FOR MISSION BLVD TOWARD I-880 0.2 MI
- KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W 0.3 MI
- MERGE ONTO CA-262 S/ MISSION BLVD 0.6 MI
- TAKE THE CA-237 W EXIT TOWARD I-880 0.9 MI
- MERGE ONTO I-880 S 3.1 MI
- TAKE THE CA-237 W EXIT TOWARD MTN VIEW 0.9 MI
- CONTINUE ONTO CA-237 W 8.4 MI
- KEEP LEFT TO CONTINUE ON CA-237 W 0.5 MI
- TURN RIGHT ON EL CAMINO REAL 2.0 MI
- TURN LEFT ONTO DISTEL DR 0.2 MI
- TURN RIGHT ONTO MARICH WAY 0.1 MI
- TURN LEFT ONTO PANCHITA WAY 0.2 MI
- TURN RIGHT ONTO ALVARADO AVE 0.3 MI
- TURN LEFT ONTO N SAN ANTONIO RD 213 FT
- TURN RIGHT ONTO PINE LN 0.3 MI
- TURN LEFT ONTO PATRICK WY 0.2 MI

END AT: 491 PATRICK WAY, LOS ALTOS, CA 94022
ESTIMATED TIME: 49 MINS ESTIMATED DISTANCE: 40.4 MI



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" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.

PRECISION DESIGN & DRAFTING, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603



CRAN_RSFR_LOSAO_009

ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

DRAWN BY: IB / BL

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 02/19/19

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

GENERAL CONSTRUCTION NOTES

- PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC/UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYORS MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IF ANY DISCREPANCY IS FOUND BETWEEN THE CARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED/DISRUPTED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC. SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- INCLUDE MISC ITEMS PER AT&T WIRELESS SPECIFICATIONS.
- ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHUTDOWN SIGNALS) OR PG&E REGULATIONS SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED LOGOS OR TEXT ON EQUIPMENT (E.G. RRUS), IF PRESENT, TO BE SANDED OFF OR COVERED WITH STICKER, & THEN PAINTED OVER.
- FONDATED RF WAC MARKING SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD THE BUILDING IF THERE IS NO WINDOW.
- ALL EQUIPMENT, INCLUDING ANTENNAS, MOUNTING STANDOFF BRACKETS, POLE EXTENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED MESA BROWN USING A DURABLE OUTDOOR PAINT.
- CABLING SHALL BE MESA BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS, & SHALL BE HIDDEN FROM VIEW TO THE MAXIMUM EXTENT POSSIBLE.
- SUPPORT EQUIPMENT (E.G. METERS, DISCONNECT SWITCH, ETC) TO BE CLUSTERED VERTICALLY AS CLOSE AS TECHNICALLY FEASIBLE ON POLE.

SYMBOLS LEGEND

	NEW ANTENNA		GROUT OR PLASTER		TELCO RUN
	EXISTING ANTENNA		(B) BRICK		POWER/TELCO RUN
	GROUND ROD		(E) MASONRY		GROUNDING CONDUCTOR
	GROUND BUSS BAR		CONCRETE		GROUNDING CONDUCTOR
	MECHANICAL GRND. CONN.		EARTH		CONDUIT UNDERGROUND
	GROUND ACCESS WELL		GRAVEL		FUSE, SIZE AND TYPE AS INDICATED.
	ELECTRIC BOX		PLYWOOD		SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NRB
	TELEPHONE BOX		WOOD CONT.		MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE
	LIGHT POLE		WOOD BLOCKING		LIGHTING FIXTURE, FLUORESCENT, 1.0.94' x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WSW232T
	FND. MONUMENT		STEEL		LIGHTING FIXTURE, FLUORESCENT, 1.0.94' x 8'-0", 2/85W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WMS232T
	SPOT ELEVATION		CENTERLINE		LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121
	SET POINT		PROPERTY/LEASE LINE		COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PRC
	REVISION		MATCH LINE		EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HEG-50-2-R91
	GRID REFERENCE		WORK POINT		LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1
	DETAIL REFERENCE		GROUND CONDUCTOR		LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #QL-505
	ELEVATION REFERENCE		COAXIAL CABLE		LIGHTING FIXTURE, 1/175W, METAL HALIDE, HUBBELL CAT #MIC-0175H-336
	SECTION REFERENCE		OVERHEAD SERVICE CONDUCTORS		5/8" X 1/2"-0", CU. GND ROD 1/8" MIN. BELOW GRADE.
			CHAIN LINK FENCING		
			OVERHEAD TELEPHONE/OVERHEAD POWER		
			OVERHEAD TELEPHONE LINE		
			OVERHEAD POWER LINE		
			POWER RUN		

GENERAL NOTES FOR EXISTING CELL SITES

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

APPLICABLE CODES, REGULATIONS, AND STANDARDS

- CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
 - INSTITUTION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT
 - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY 'C3' AND 'HIGH SYSTEM EXPOSURE')
 - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
 - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
 - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
 - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
 - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
 - FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

- MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
- ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED.
- IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- IN DIRT SLURRY 1/2" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BALANCE
- WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #16 WARNING TAPE ABOVE RIG.

GENERAL GROUNDING NOTES

- 5/8" x 1/2" ROD, CAD WELD BELOW GRADE
- GROUND TESTED AT 5 OHMS OR LESS.
- #5 GROUND AND BOND WIRE.
- GROUPS 3' FROM POLE.
- PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBMD OR STRONG BOX.
- WOOD MOULDING, STAPLED EVERY 3' AND AT EACH END.

GENERAL CONDUIT NOTES

- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE.
- 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3', STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
- CONTRACTOR TO STUB UP POLE 10" w/ 3" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 3" STUB SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.

TYPICAL R.O.W. POLE CONSTRUCTION NOTES

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

ABBREVIATIONS

A	AMPERE	HT	HEIGHT
AB	ANCHOR BOLT	ICCB	ISOLATED COPPER GROUND BUSS
ABV	ABOVE	INL (D)	INCHES
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT	INTERIOR
ADDI	ADDITIONAL	LB, (W)	POUNDS
AFF	ABOVE FINISHED FLOOR	LAG	LAG BOLTS
APG	ABOVE FINISHED GRADE	LF	LINEAR FEET (FOOT)
AC	AMPERE INTERRUPTING CAPACITY	LTH	LENGTH
ALUM	ALUMINUM	L	LONGITUDINAL
ALT	ALTERNATE	LPS	LOW PRESSURE SODIUM
ANT	ANTENNA	MAS	MASONRY
APPROX	APPROXIMATELY	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MB	MACHINE BOLT
AT	AMPERE TAP	MECH	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MFR	MANUFACTURER
BATT	BATTERY	MIN	MINIMUM
BD	BOARD	MISC	MISCELLANEOUS
BLDG	BUILDING	MN	MAIN LINES ONLY
BLK	BLACK	MTD	MOUNTED
BLSG	BLOCKING	MTG	MOUNTING
BM	BEAM	MTL	METAL
BN	BOUNDARY NAILING	MTS	MANUAL TRANSFER SWITCH
BR	BRAND	N	NEUTRAL
BRKR	BREAKER	NEW	NEW
BTOW	BARE TINNED COPPER WIRE	NI	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BTS	BASE TRANSMISSION SYSTEM	NO, (W)	NUMBER
BOF	BOTTOM OF FOOTING	NTS	NOT TO SCALE
BU	BACK-UP CABINET	OH	OVERHEAD
C	CONDUIT	OC	ON CENTER
CAB	CABINET	OPNG	OPENING
CANT	CANTILEVERED	P	POLE
CB	CIRCUIT BREAKER	PC	PRECAST CONCRETE
CIP	CAST IN PLACE	PCCS	PERSONAL COMMUNICATION SERVICES
CKT	CIRCUIT	PH	PHASE
CLG	CEILING	PLY	PLYWOOD
CLR	CLEAR	PNLBD	PANELBOARD
CO	COLUMN	PPC	POWER PROTECTION CABINET
CONN	CONNECTION	PRC	PRIMARY RADIO CABINET
CONN	CONNECTION(OR)	PRM	PRIMARY
CONST	CONSTRUCTION	PSF	POUNDS PER SQUARE FOOT
CONT	CONTAINER	PSI	POUNDS PER SQUARE INCH
d	DIMENSION	PT	PRESSURE TREATED
d	PENNY (NAILS)	QTY	QUANTITY
DBL	DOUBLE	RAD, (R)	RADIUS
DEM	DEMAND	RFT	RECEPTACLE
DEPT	DEPTH	REF	REFERENCE
DF	DIAGONAL	REINF	REINFORCEMENT(ING)
DIAG	DIAGONAL	REQD	REQUIRED
DM	DIAMETER	RIGD	RIGID GALVANIZED STEEL
DWG	DRAWING(S)	SAFE	SAFETY
DWL	DOWELS	SCH	SCHEDULE
EA	EACH	SCH	SOFT DRAWN BARE COPPER
EGR	EMERGENCY GENERATOR RECEPTACLE	SEC	SECONDARY
ELEV	ELEVATION	SHT	SHEET
ELEC	ELECTRICAL	SIM	SIMILAR
ELEV	ELEVATOR	SPEC	SOLID NEUTRAL SPECIFICATIONS(S)
EMT	ELECTRICAL METALLIC TUBING	SQ	SQUARE
EN	EDGE NAIL	SS	STAINLESS STEEL
ENCL	ENCLOSURE	STD	STANDARD
ENGR	ENGINEER	STL	STEEL
EQ	EQUAL	STRUC	STRUCTURAL
EQ	EQUAL	SURF	SURFACE
EXT	EXTENSION	SW	SWITCH
DYST, (D)	DYSTING	TEL	TELEPHONE
EXP	EXPANSION	TEMP	TEMPORARY
EXT	EXTERIOR	THK, (S)	THICKNESS
FAB	FABRICATION(OR)	TIE	TIE NAIL
FAC	FACE	TOA	TOP OF ANTENNA
FIA	FIRE ALARM	TOC	TOP OF CURB
FF	FINISH FLOOR	TOP	TOP OF FOUNDATION
FG	FINISH GRADE	TOP	TOP OF PLATE (PARAPET)
FIN	FINISHED	TOS	TOP OF STEEL
FLR	FLOOR	TOW	TOP OF WALL
FLUR	FLUORESCENT	TYP	TYPICAL
FDN	FOUNDATION	UG	UNDER GROUND
FOM	FACE OF MASONRY	UL	UNDERWRITERS LABORATORY INC.
FOS	FACE OF STUD	UNO	UNLESS NOTED OTHERWISE
FOW	FACE OF WALL	VAC	VOLT ALTERNATING CURRENT
FS	FINISH SURFACE	VIF	VERIFY IN FIELD
FT, (F)	FOOTING	W	WAIT OR WIRE
FT, (F)	FOOTING	WD	WIDE(WIDTH)
FU	FUSE	WI	WITH
G	GROUND	WO	WOOD
GR	GROWTH (CABINET)	WTH	WEATHERPROOF
GEN	GENERATOR	WV	WOOD
GALV	GALVANIZED	WF	WEATHERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WV	WOOD
GLB	GLUE LAMINATED BEAM	WT	WEIGHT
GND	GROUND	XFR	TRANSFER
GPS	GLOBAL POSITIONING SYSTEM	XFRM	TRANSFORMER
GRD	GROUND	XLPE	CROSS-LINK POLYETHYLENE
HDBC	HARD DRAWN COPPER WIRE	C	CENTERLINE
HDR	HEADER	E	PLATE
HGR	HANGER		
HPS	HIGH PRESSURE SODIUM		



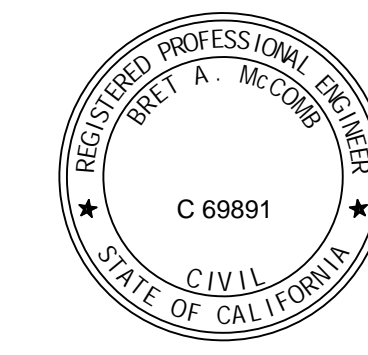
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THE CLIENT FOR ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_009

ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

DRAWN BY: IB / BL

CHECKED BY: T. DICARLO

APPROVED BY: B. MCCOMB

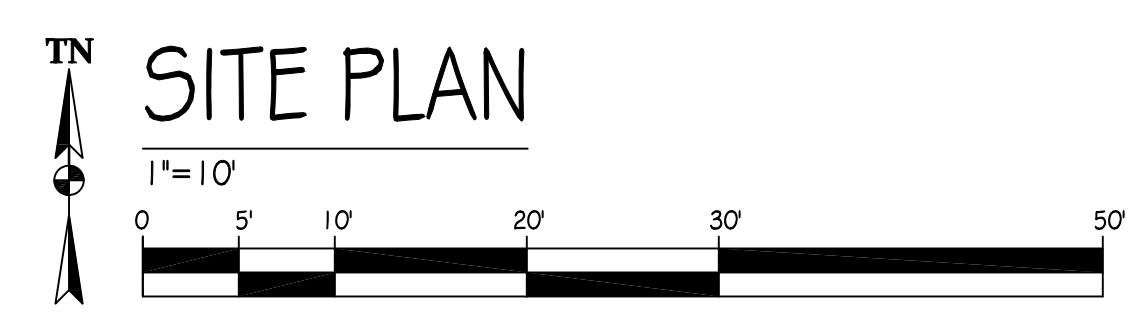
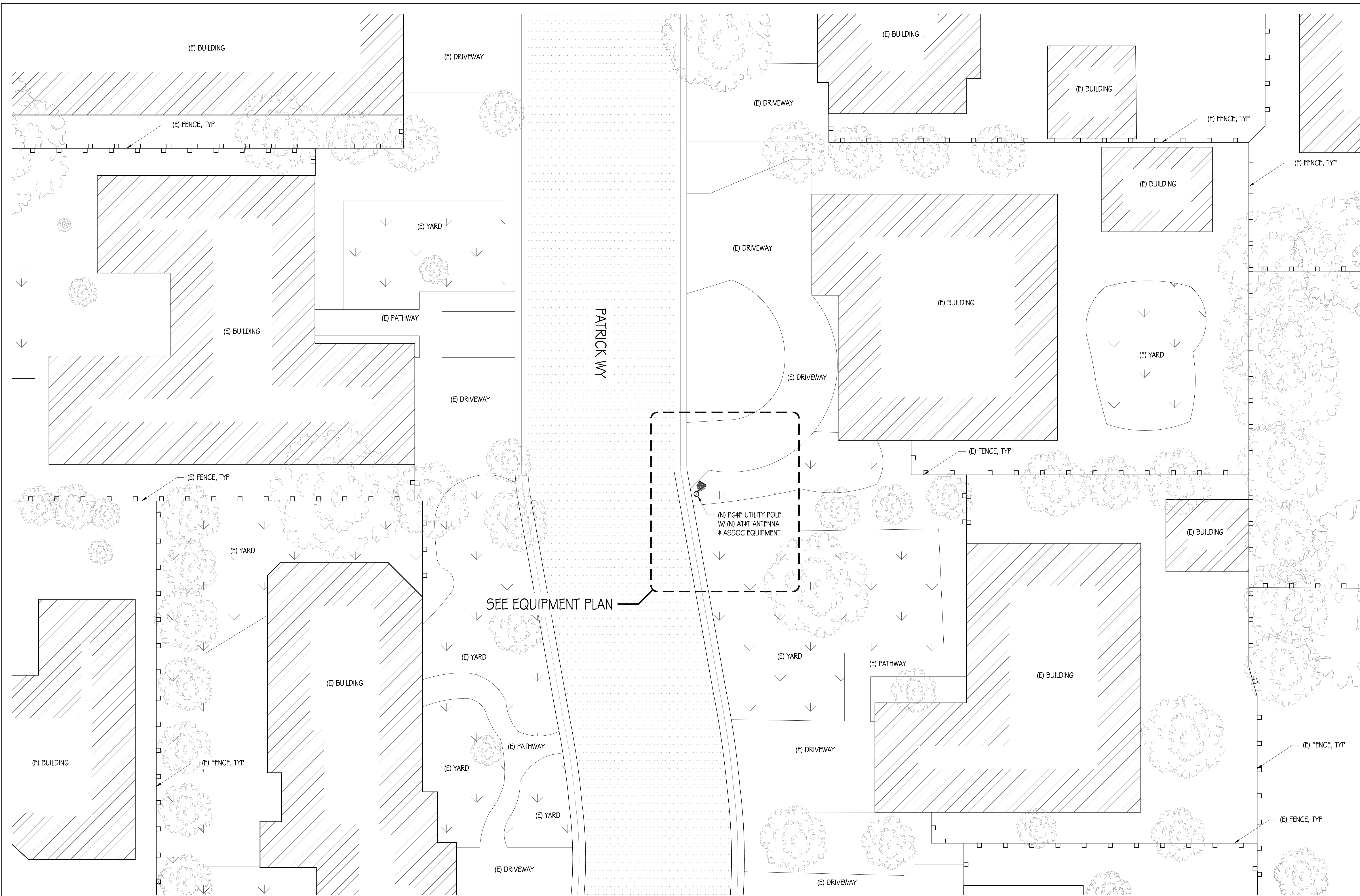
DATE: 02/19/19

SHEET TITLE:

GENERAL NOTES, LEGEND,
& ABBREVIATIONS

SHEET NUMBER

T-2



PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THAT FOR WHICH THEY WERE PREPARED WITHOUT THE WRITTEN CONSENT OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LO5A0_009

ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

DRAWN BY: IB / BL
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 02/19/19

SHEET TITLE:
SITE PLAN
SHEET NUMBER:
A-1

PATRICK WY

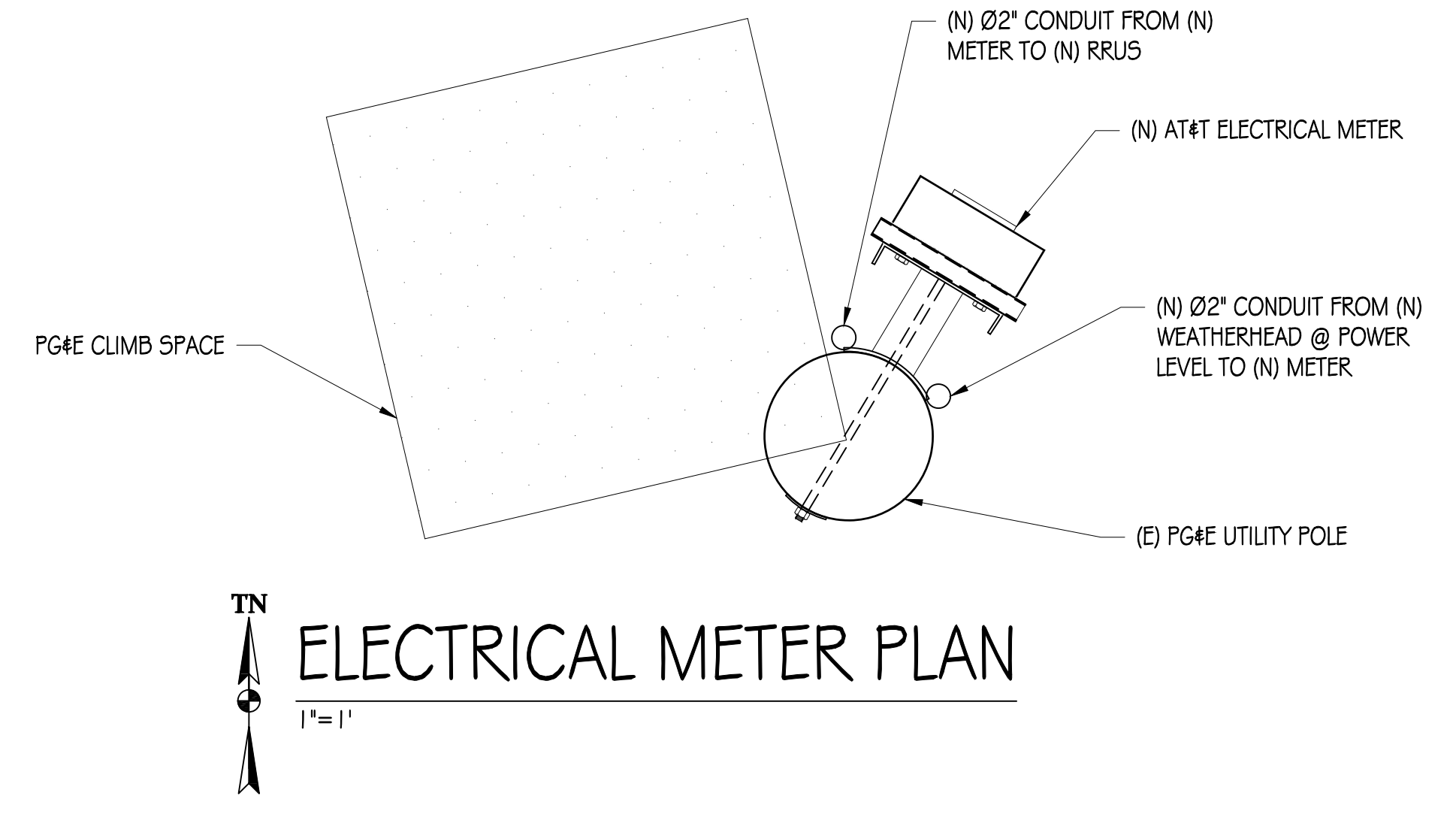
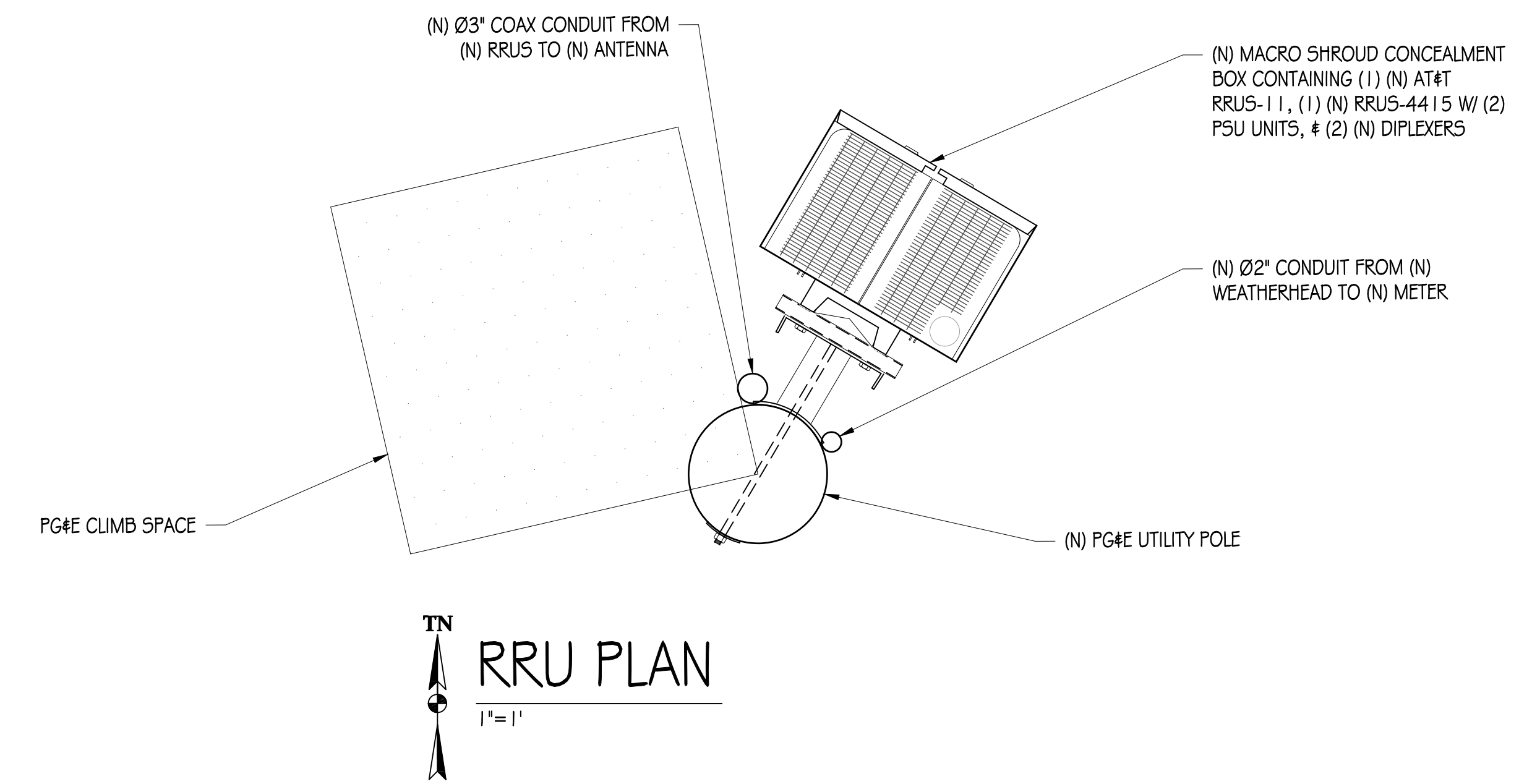
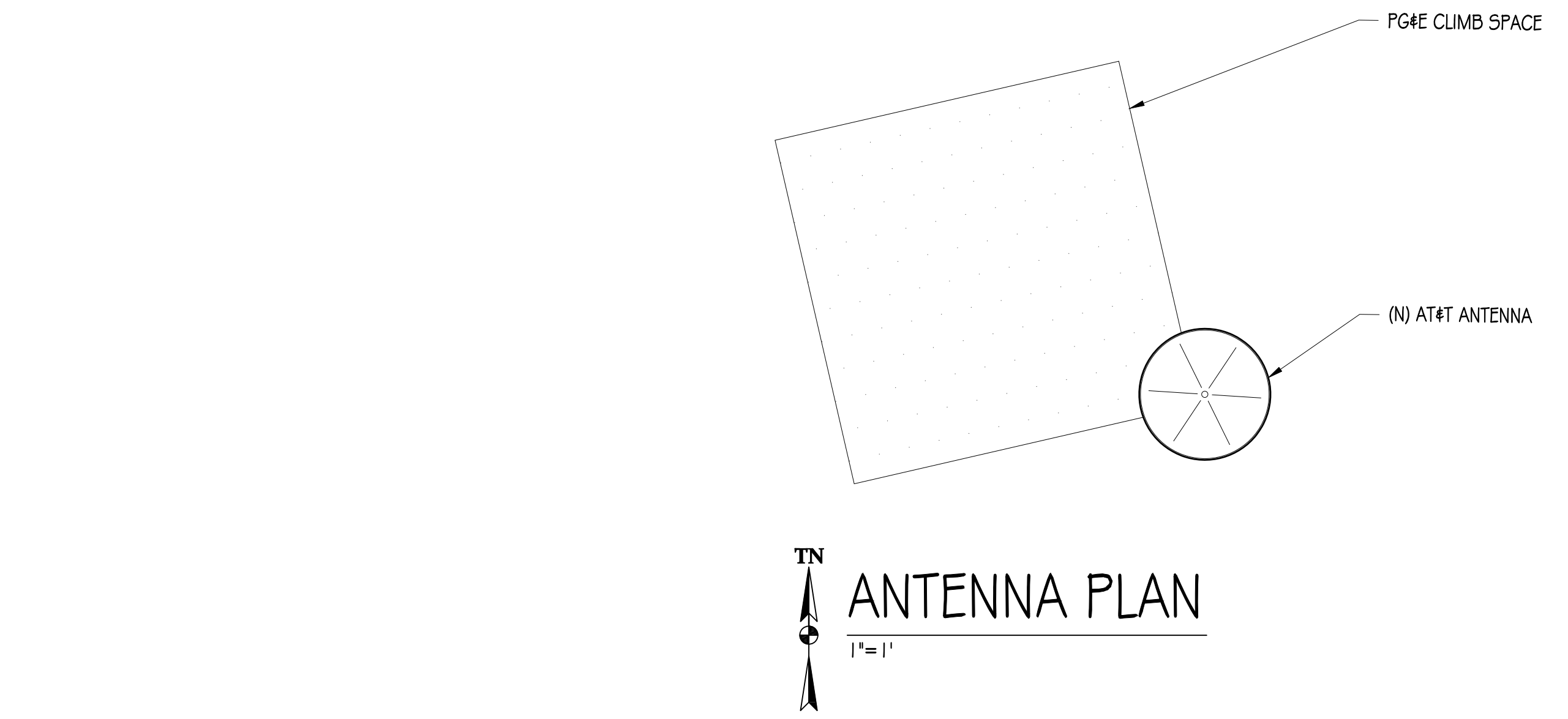
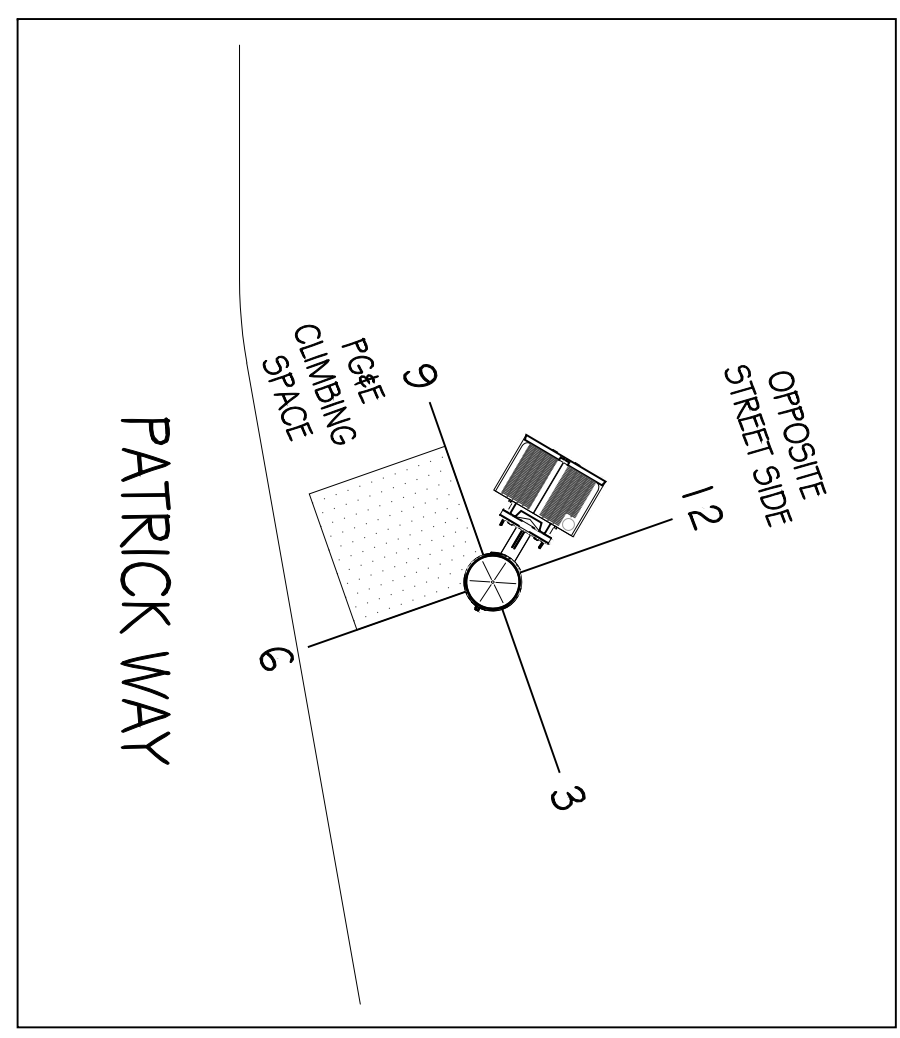
(E) DRIVEWAY

SEE ANTENNA PLANS

(N) PG&E UTILITY POLE
W/ (N) AT&T ANTENNA
& ASSOC EQUIPMENT

(E) YARD

TN
EQUIPMENT PLAN
1/2"=1'



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
& Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THE CLIENT FOR ANY PROJECT WITHOUT THE WRITTEN CONSENT OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LO5A0_009

ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

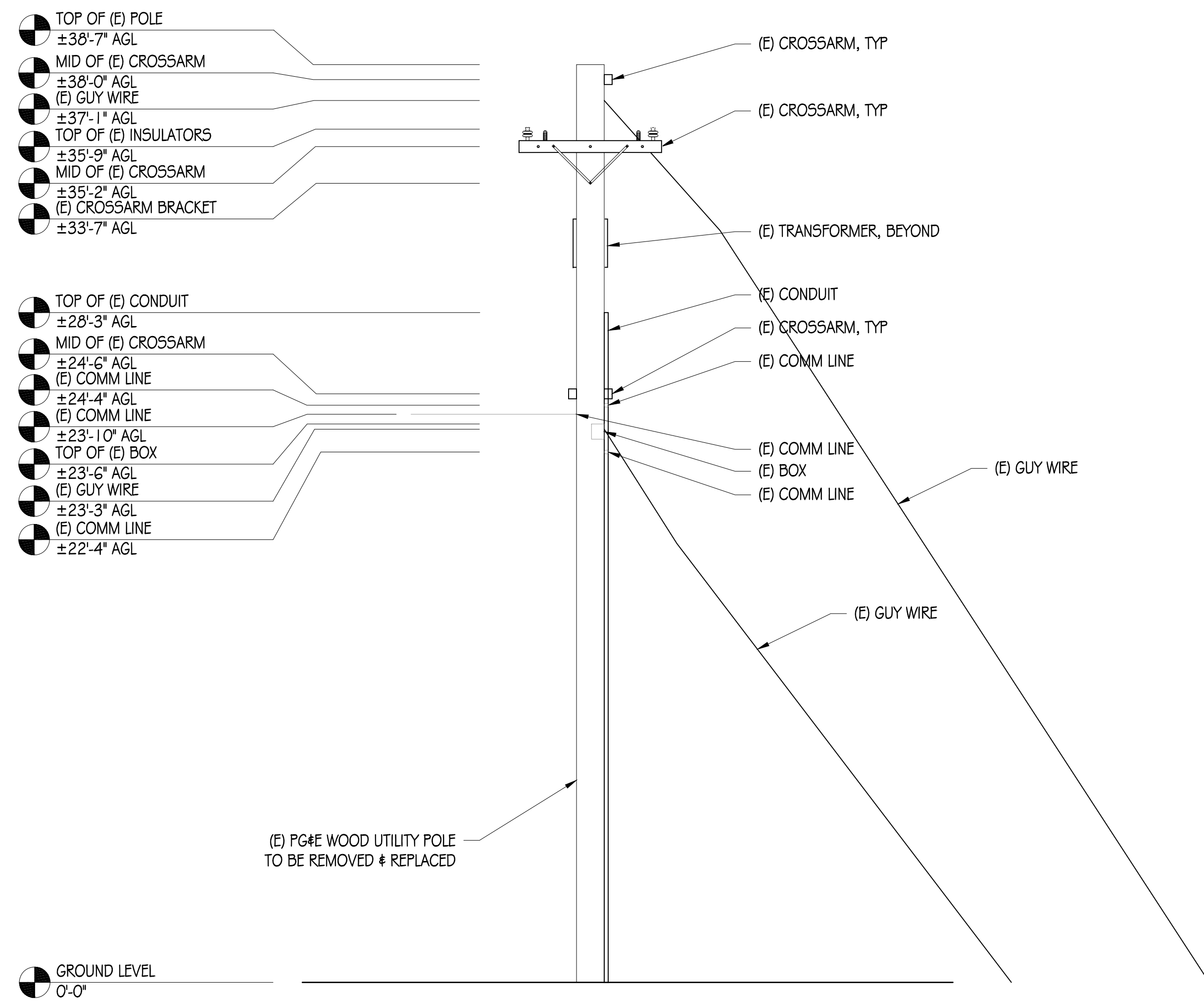
ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

DRAWN BY: IB / BL
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 02/19/19

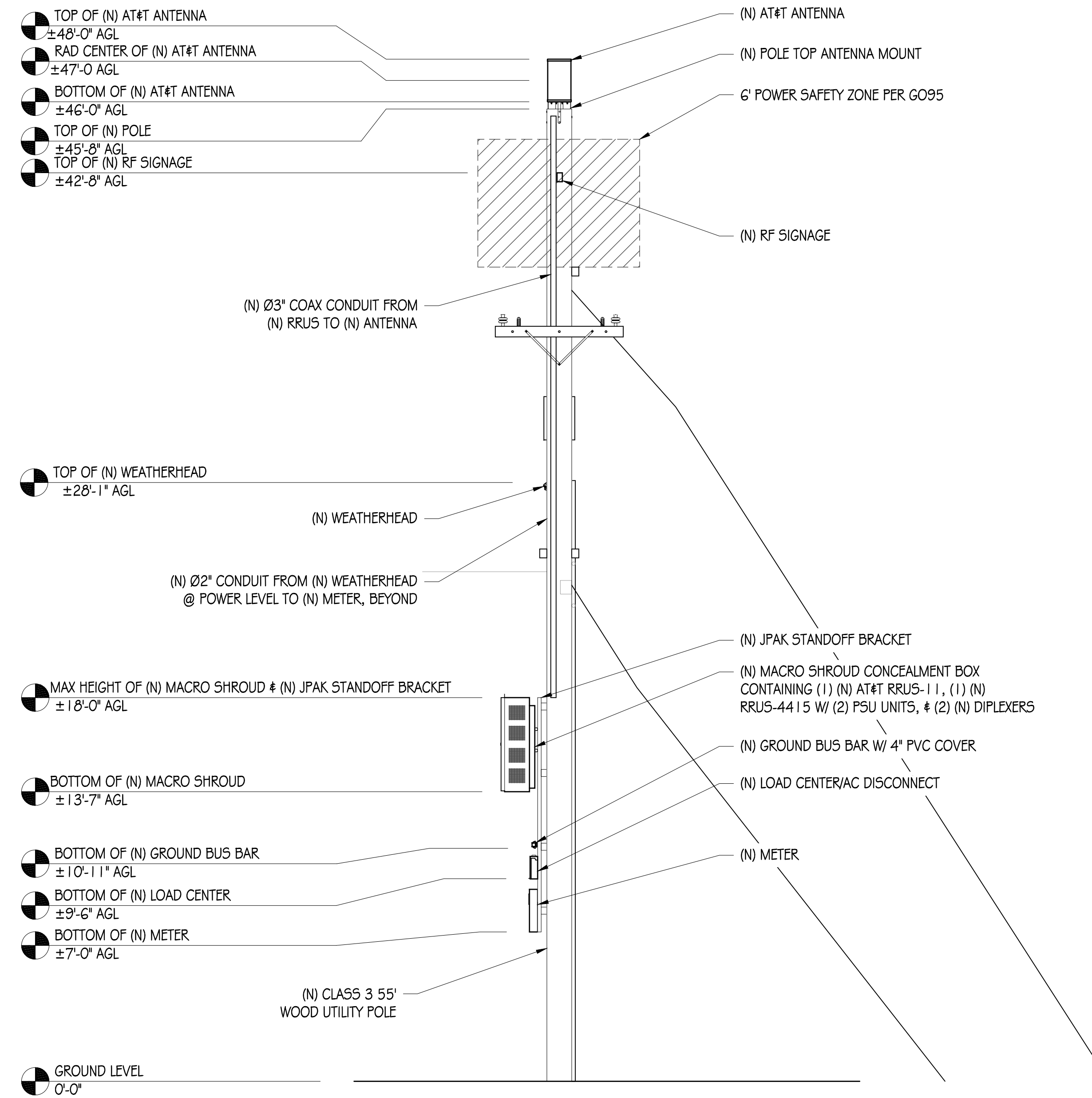
SHEET TITLE:
EQUIPMENT PLAN &
ANTENNA PLANS

SHEET NUMBER:
A-2



EXISTING WEST ELEVATION

1/4" = 1'-0"



NEW WEST ELEVATION

1/4" = 1'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
& Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LO5A0_009

ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

DRAWN BY: IB / BL

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

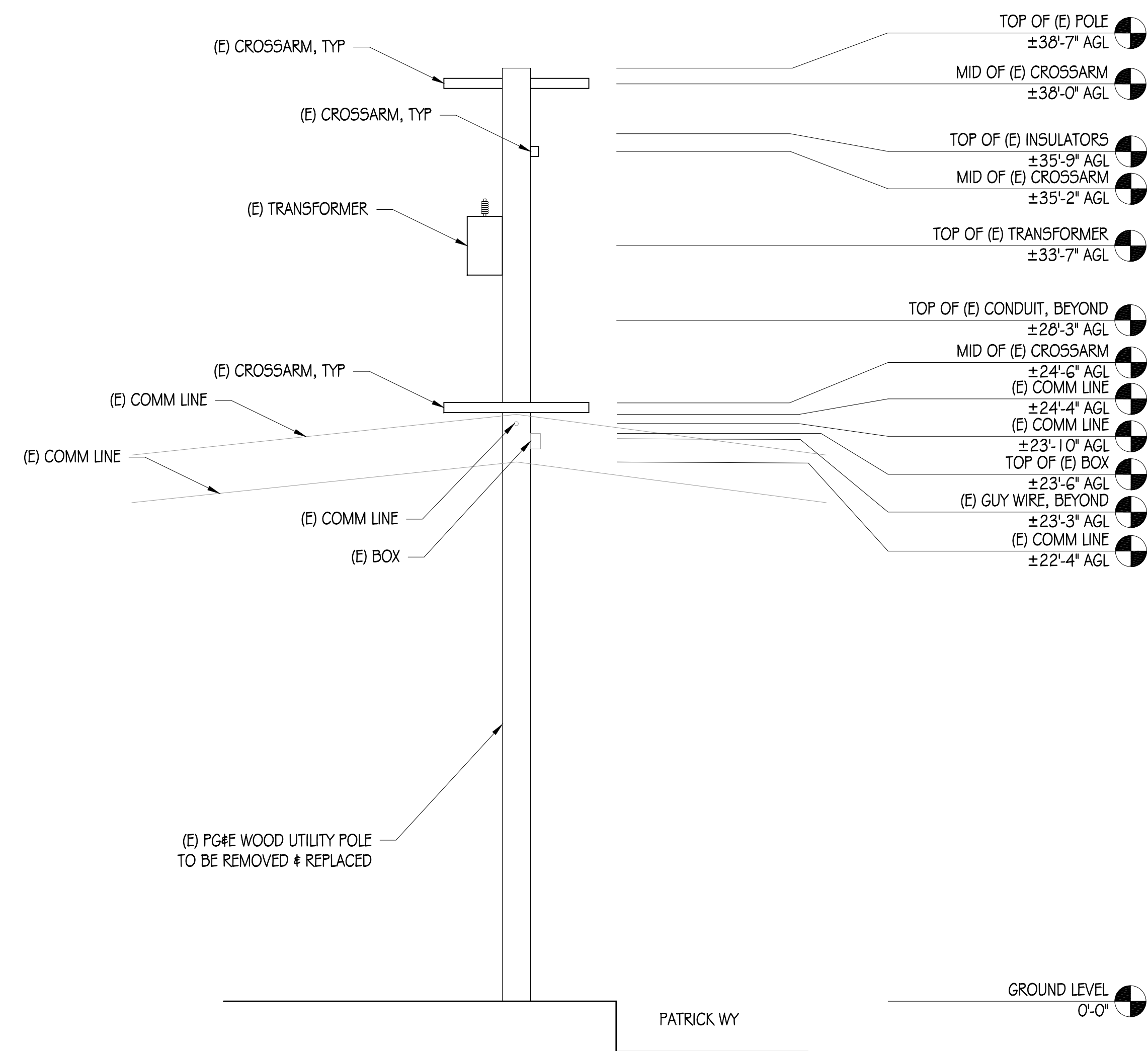
DATE: 02/19/19

SHEET TITLE:

ELEVATIONS

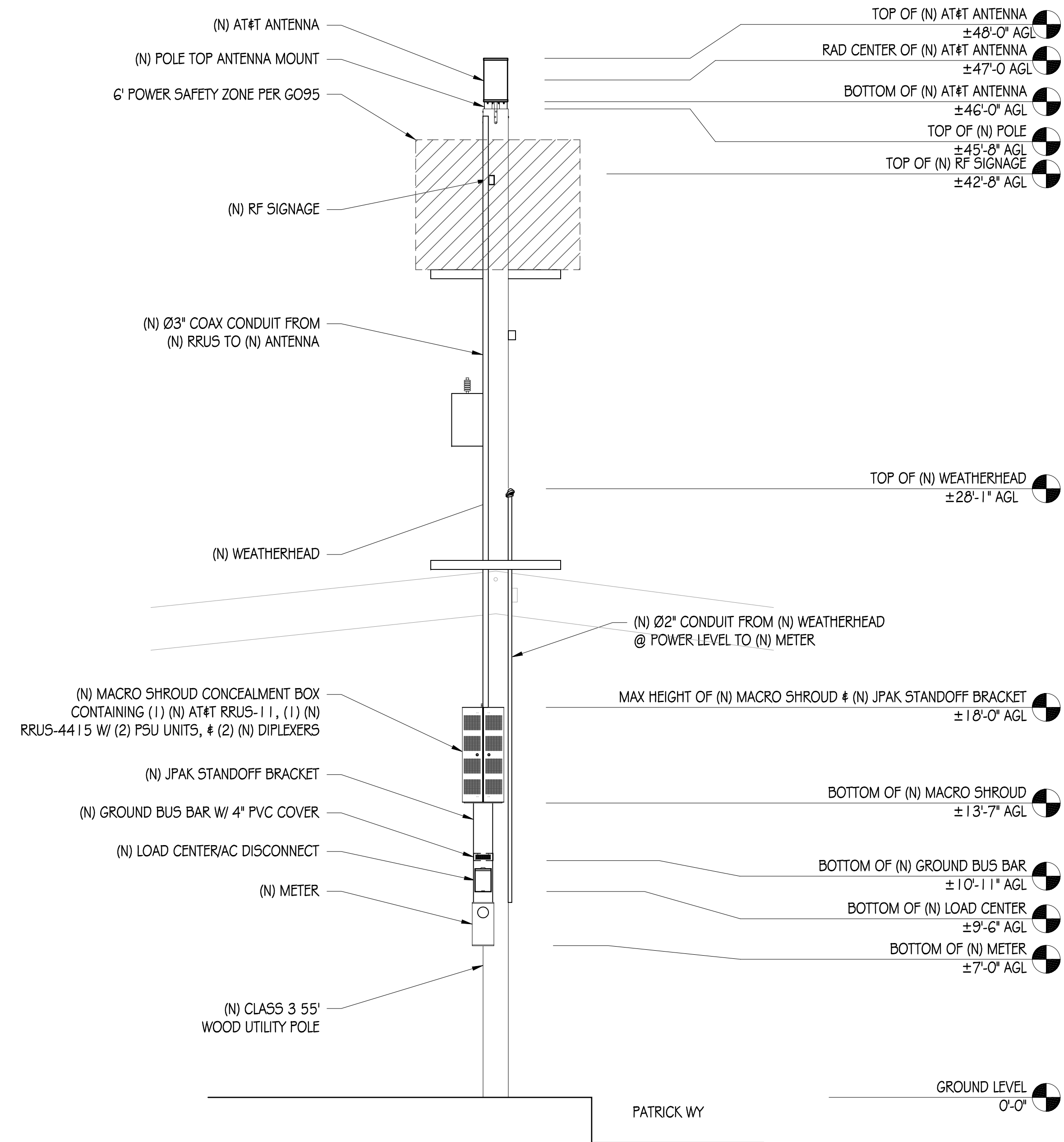
SHEET NUMBER

A-3



EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

1/4" = 1'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
& Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN PRECISION DESIGN & DRAFTING, INC. WITHOUT THE WRITTEN CONSENT OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LO5A0_009

ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

DRAWN BY: IB / BL

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 02/19/19

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

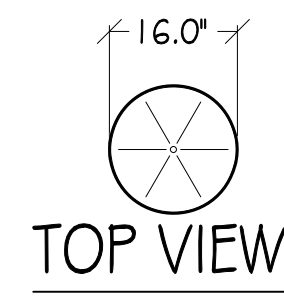
A-4

POLE-TOP EXTENSION NOTES:

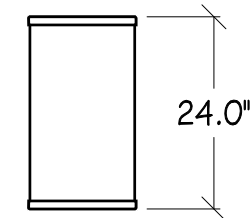
1. THIS UNIT MEETS GENERAL ORDER (G.O.) 95 REQUIREMENTS FOR STRENGTH IN CLASS 6 POLES AND THEREFORE MAY BE USED TO SUPPORT EQUIPMENT ON THESE CLASSES OF POLES. IT MAY BE USED ON LARGER CLASS POLES, BUT MAY NOT BE USED TO SUPPORT EQUIPMENT ON THEM.
2. THE UNIT MAY BE GUYED.
3. THE BRACKET IS MADE TO FIT POLES WITH DIAMETERS OF 8"-11". THEREFORE, DEPENDING UPON THE ACTUAL POLE-TOP DIAMETER, TO FIT POLES OF CLASS 3 AND SMALLER, A BRACKET ADAPTER MAY BE REQUIRED.
4. UNITS ARE SUPPLIED WITH THE WOOD BAYONET ASSEMBLED.
5. A POLE STEP KIT IS REQUIRED.
6. ATTACH THE BRACKET ASSEMBLY ACROSS THE LINE DIRECTION WITH THE CROSS ARM.
7. ALL DETAILS SHOWN ON THIS PAGE ARE FOR REFERENCE ONLY. THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEMS ARE PER UTILITY COMPANY STANDARDS AND ARE SUBJECT TO CHANGE AT THEIR DISCRETION. BOTH THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEM SHALL BE INSTALLED BY THE UTILITY COMPANY.

KMW FX-OM2L1 OH2

WIND AREA: 2.38 SQ FT
 WEIGHT: TBD
 DIMENSIONS: Ø16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



TOP VIEW

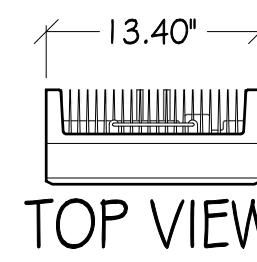


FRONT VIEW

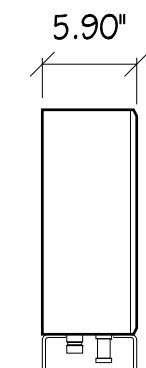
1 ANTENNA
1/2"=1"

ERICSSON RRUS-4415

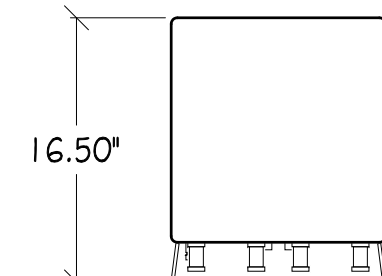
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

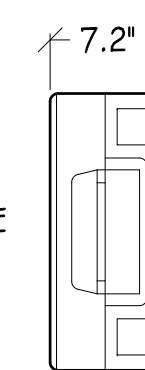


FRONT VIEW

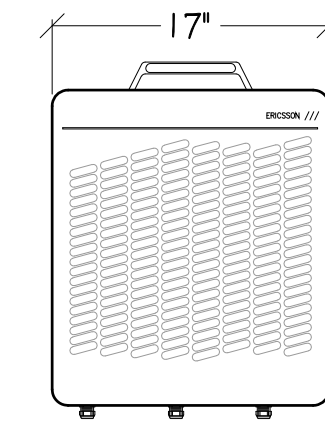
2 RRUS-4415 DETAIL
1"=1"

ERICSSON RRUS-111

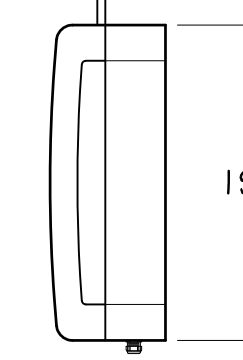
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

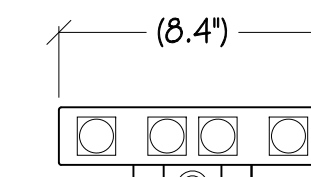


SIDE VIEW

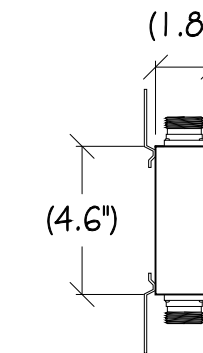
3 RRUS-111 DETAIL
1"=1"

COMMSCOPE CBC1923T-4310/ E11F13P06

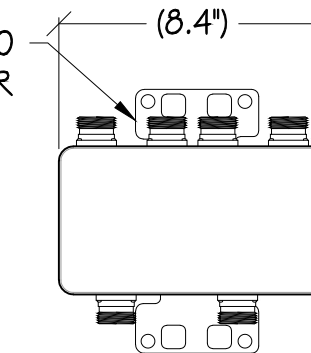
COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

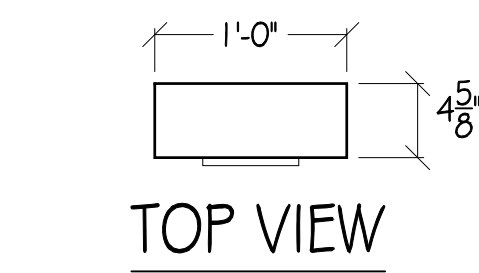


SIDE VIEW

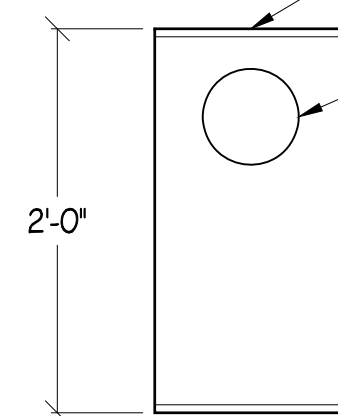


FRONT VIEW

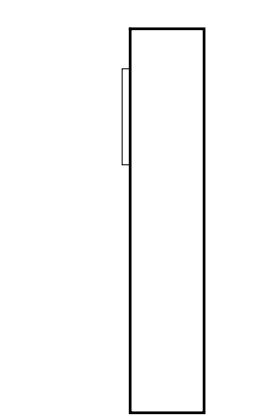
4 DIPLEXER DETAIL
1"=6"



TOP VIEW



FRONT VIEW



SIDE VIEW

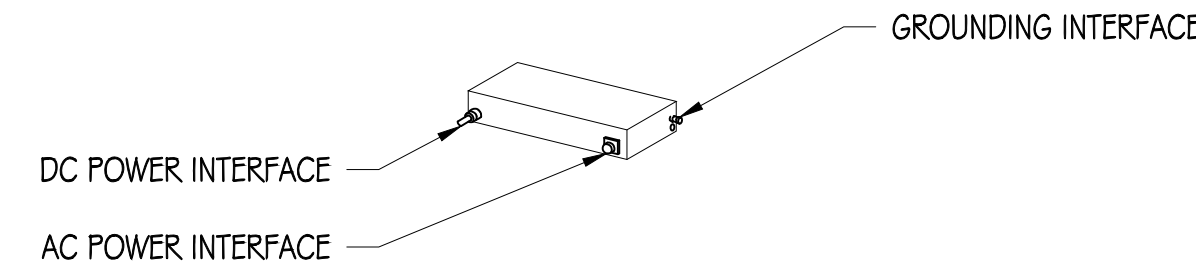
5 METER DETAIL
1"=1"

COOPER B-LINE 114TB ELECTRICAL PANEL TO MEET COMMERCIAL PG&E REQUIREMENTS WITH TEST BYPASS

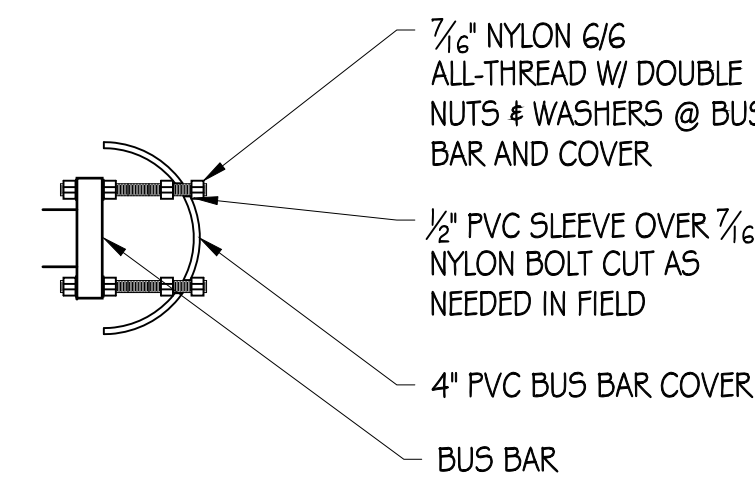
100 AMP METER

ERICSSON PSU AC 08

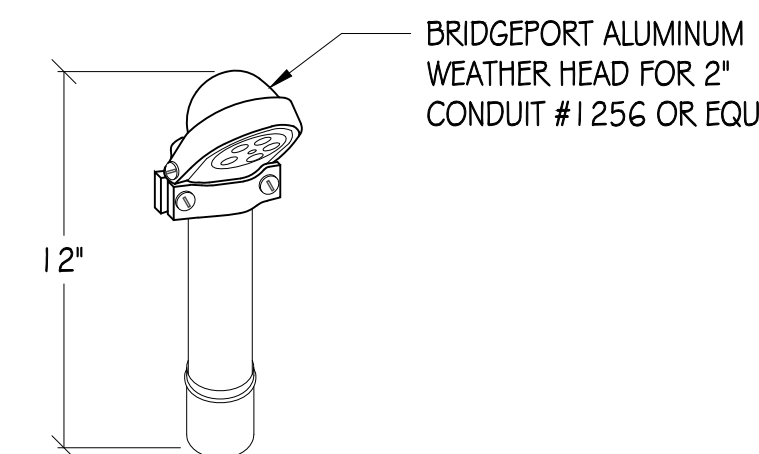
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



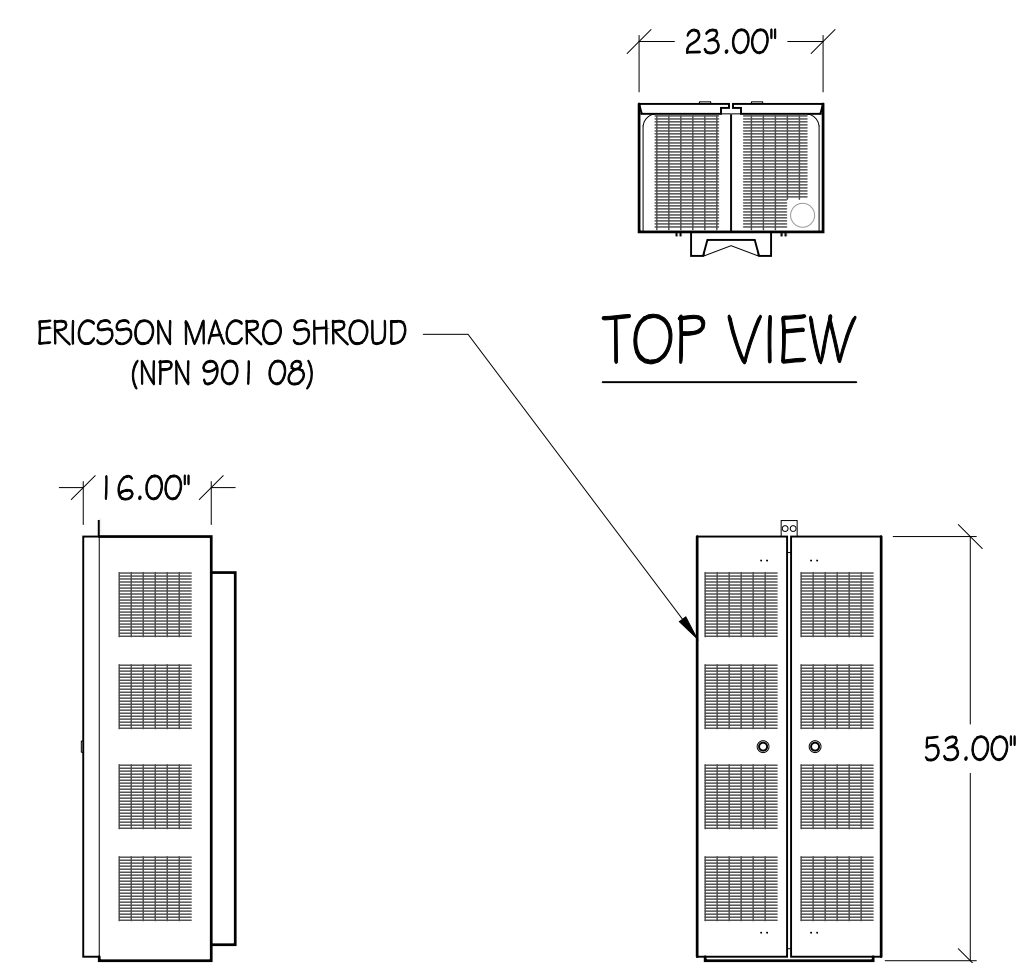
6 AC POWER MODULE
NTS



7 BUS BAR COVER
6"=1"



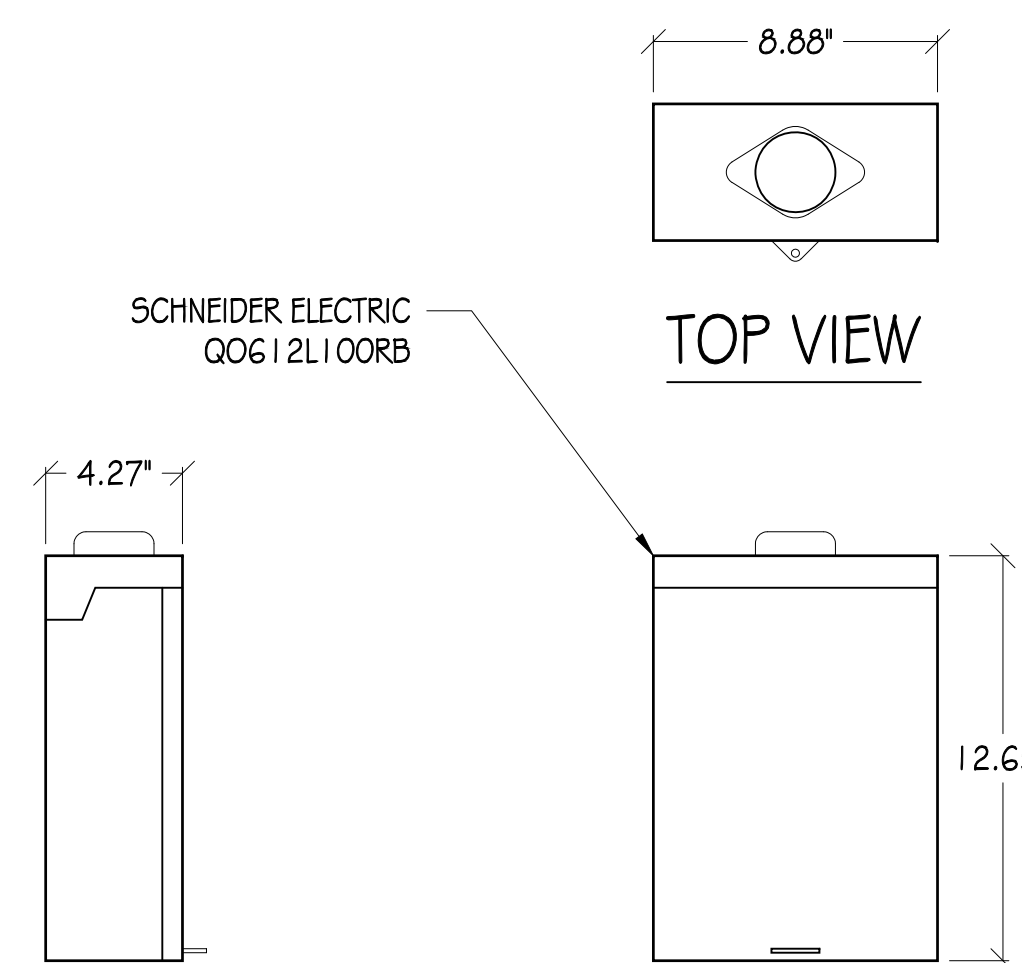
8 WEATHER HEAD
NTS



SIDE VIEW

FRONT VIEW

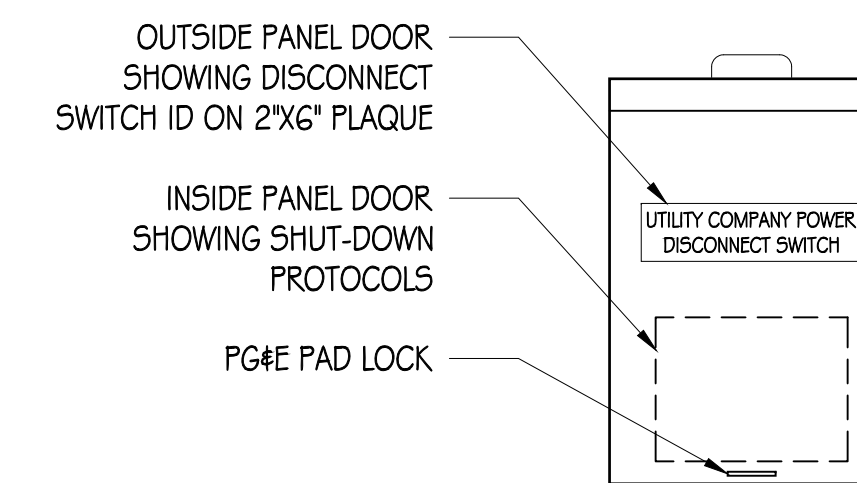
9 MACRO SHROUD CONCEALMENT
1/2"=1"



SIDE VIEW

FRONT VIEW

10 LOAD CENTER/AC DISCONNECT
1"=6"



11 DISCONNECT SIGNAGE
3"=1"

SHUT-DOWN DISCONNECT		
NORMAL SHUT-DOWN PROTOCOLS		
1. CALL 800 638-2822	2. SCHEDULE DAY OF SHUT-DOWN	3. SCHEDULE DAY OF SHUT-DOWN
EMERGENCY SHUT-DOWN PROTOCOLS		
1. CALL 800 638-2822	2. SCHEDULE DAY OF SHUT-DOWN	3. SCHEDULE DAY OF SHUT-DOWN

at&t
 AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583

SURESITE
 Infrastructure experts. Small cell leaders.
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS ARE PRELIMINARY AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN PRECISION DESIGN & DRAFTING, INC. WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.

REGISTERED PROFESSIONAL ENGINEER
 FRED A. MCCOMB
 C 69891
 CIVIL
 STATE OF CALIFORNIA

CRAN_RSFR_LO5A0_009

ROW ADJCT TO 491 PATRICK WY
 LOS ALTOS, CA 94022

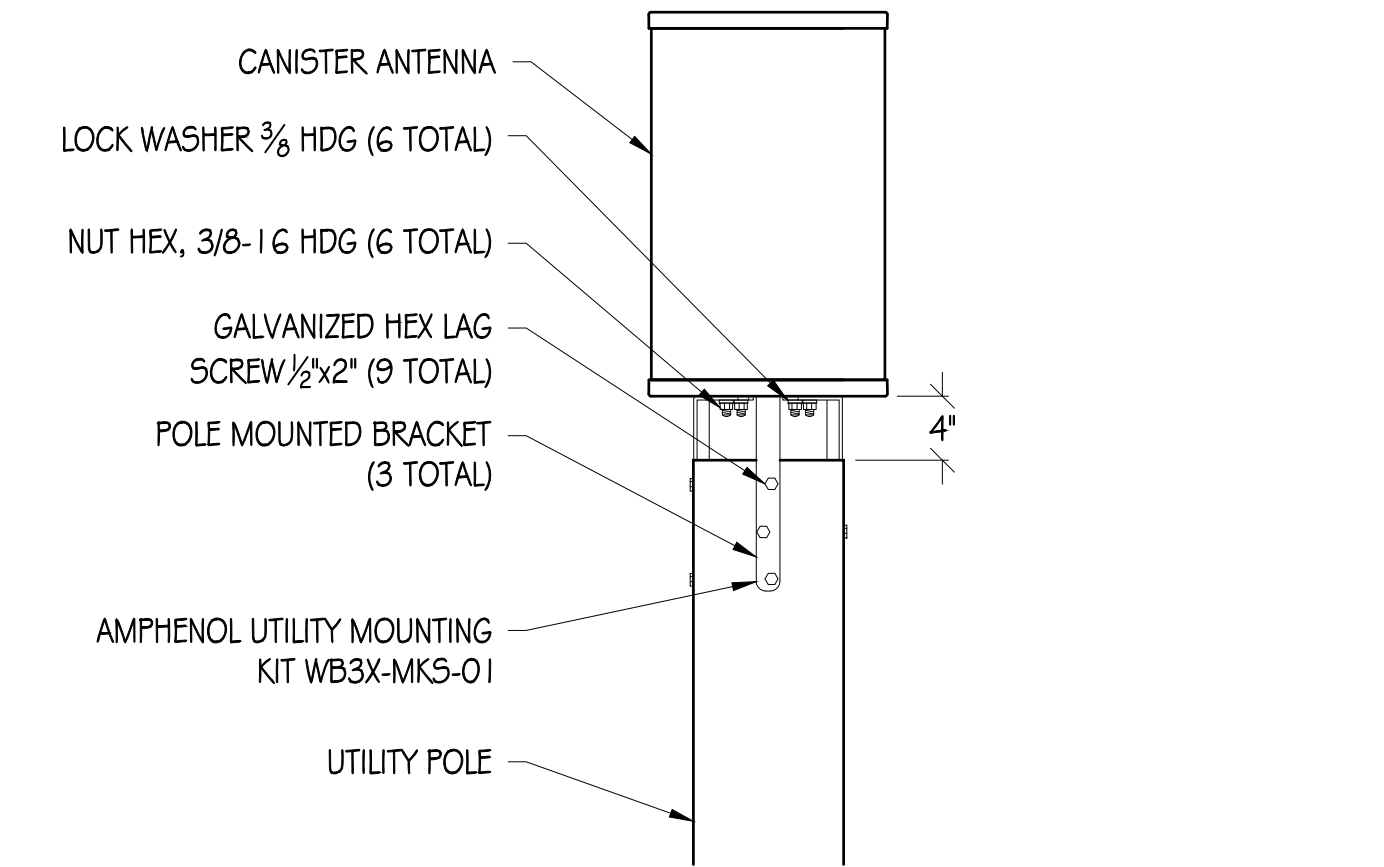
ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

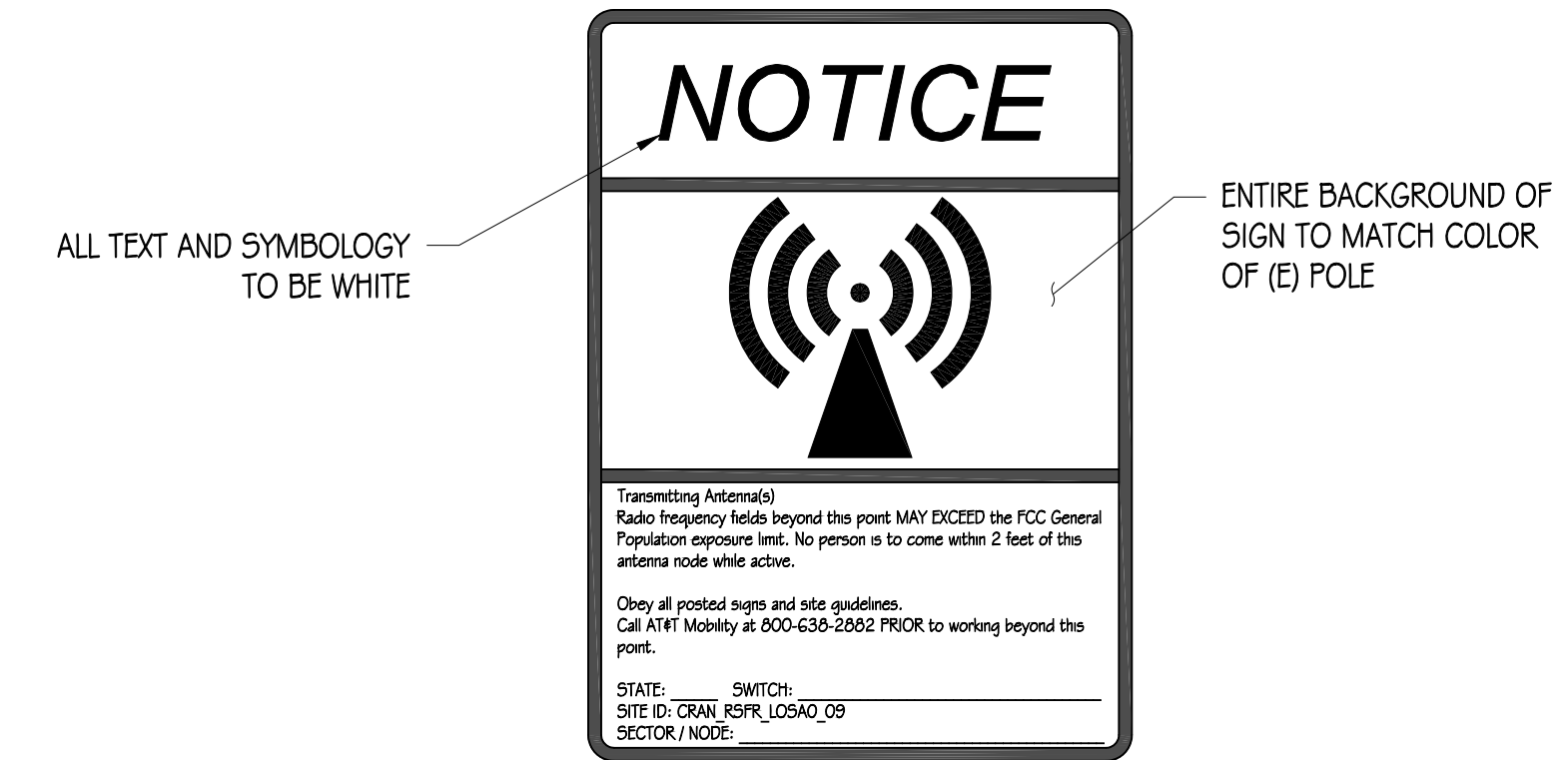
DRAWN BY: IB / BL
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 02/19/19
 SHEET TITLE:
 DETAILS
 SHEET NUMBER
A-5

STRUCTURAL STEEL NOTES:

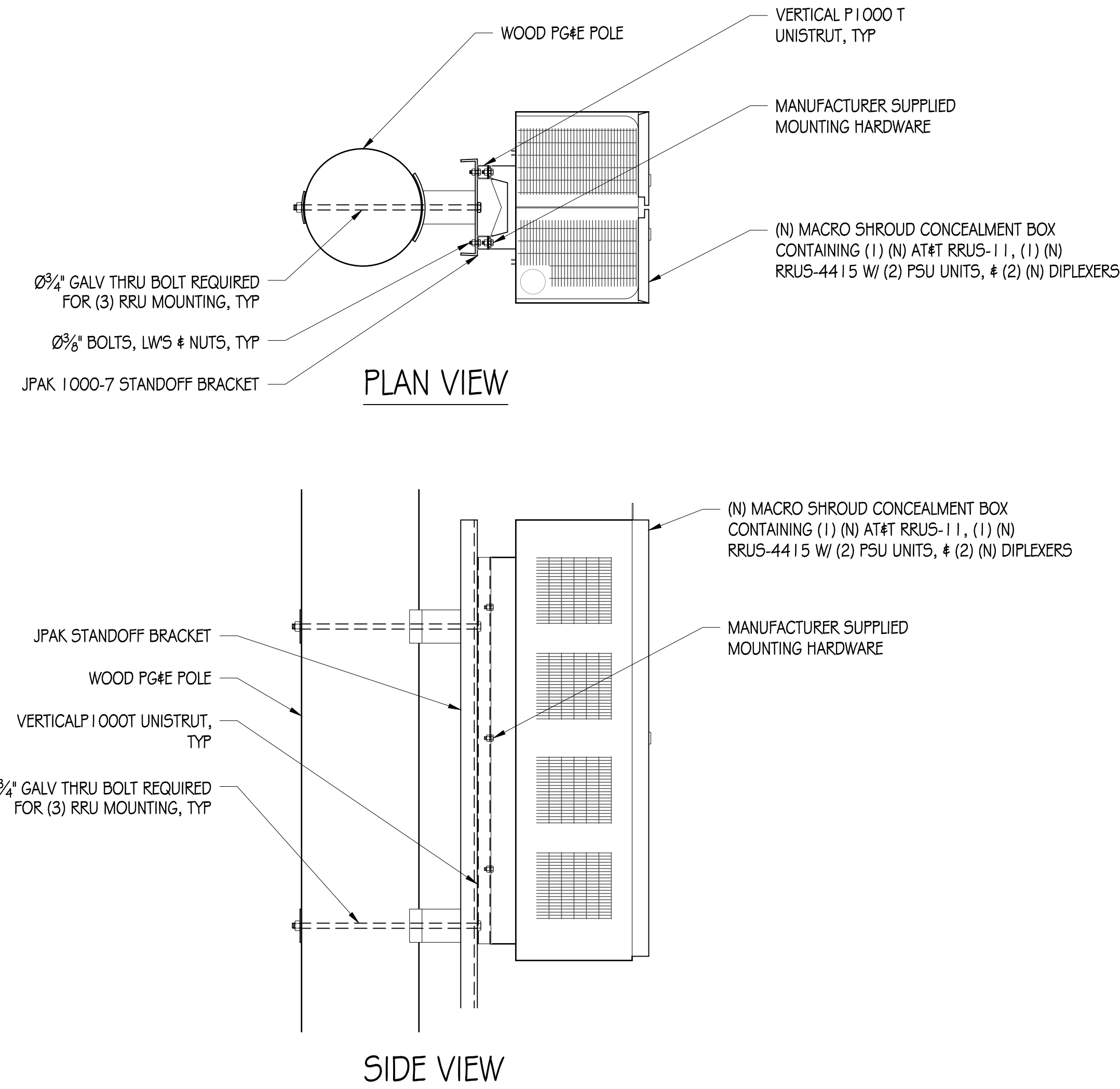
- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4"Ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.



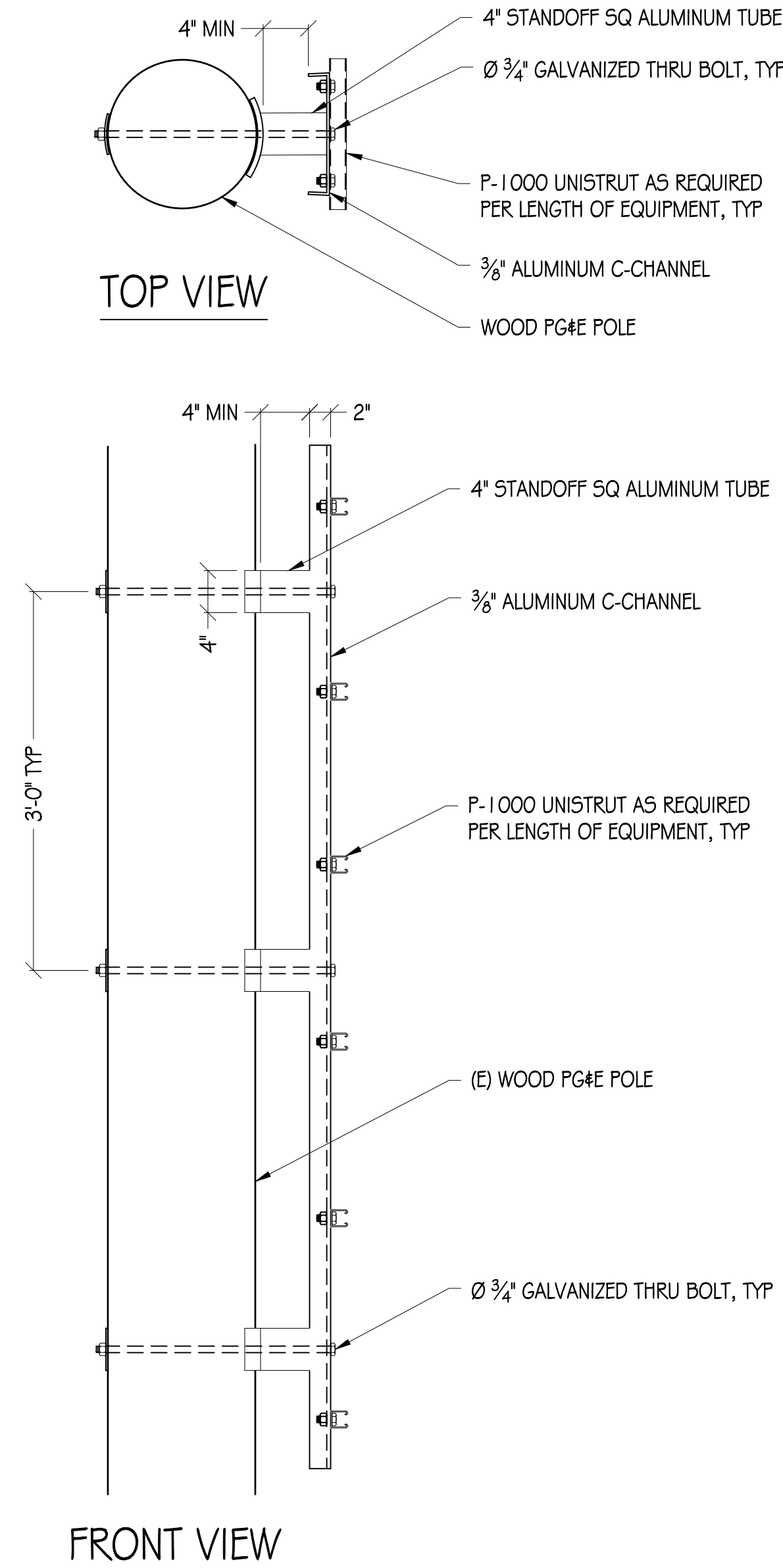
1 POLE-TOP ANTENNA MOUNT DETAIL
1"=1'



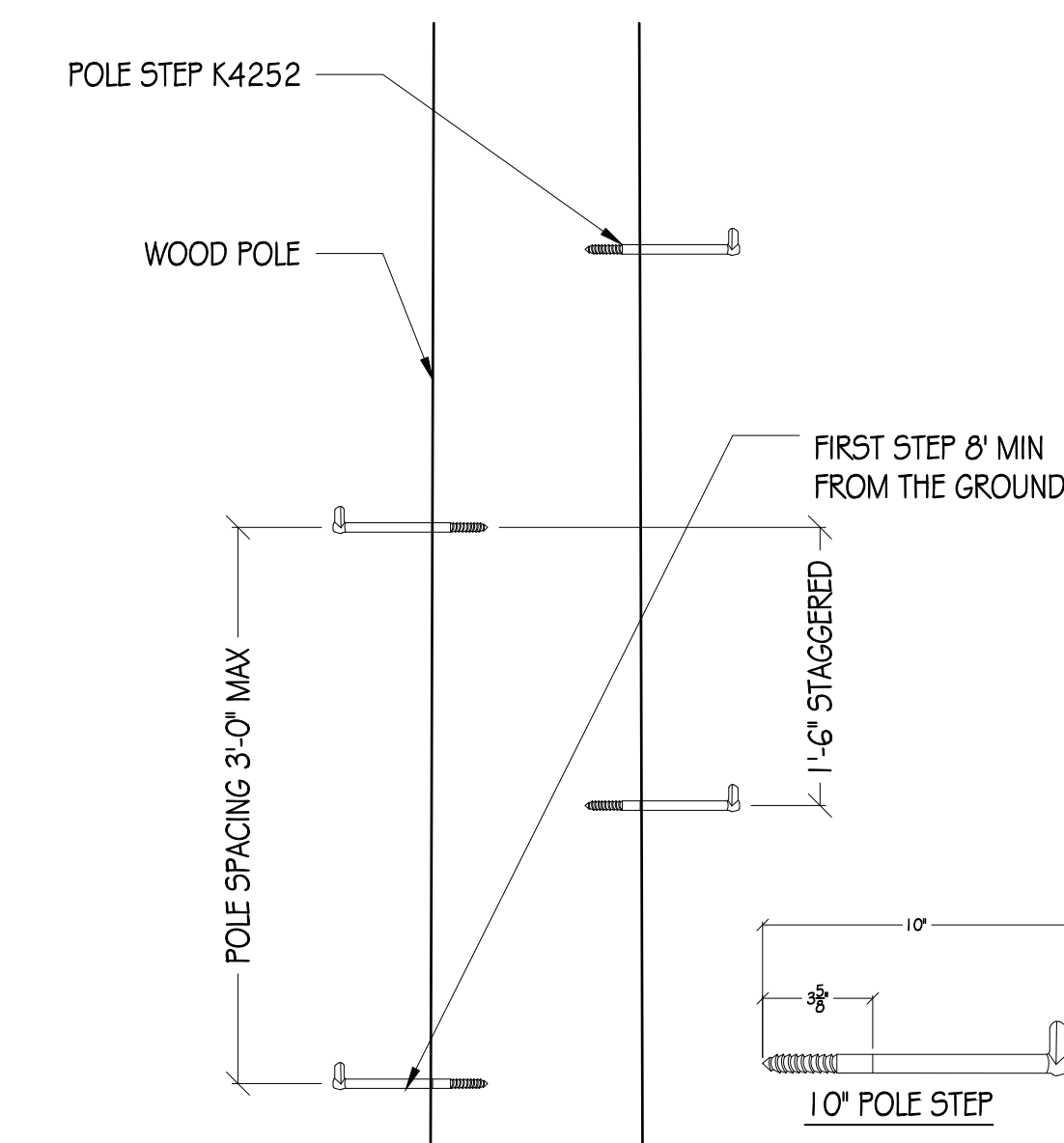
2 NOTICE SIGNAGE
NTS
NOTES:
NOTICE IS A VINYL STICKER ADHERED TO POLE



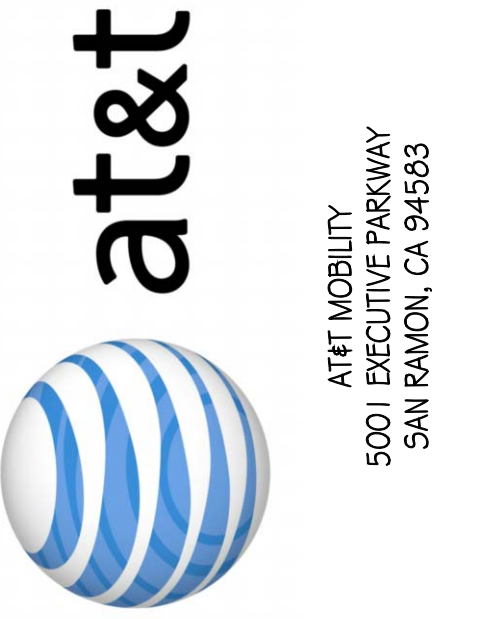
3 RRU MOUNTING DETAIL
1"=1'



4 JPAK STANDOFF DETAIL
1"=1'



5 POLE STEP
1"=1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN PRECISION DESIGN & DRAFTING, INC. WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOS40_009

ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

DRAWN BY: IB / BL
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 02/19/19

SHEET TITLE:

DETAILS

SHEET NUMBER

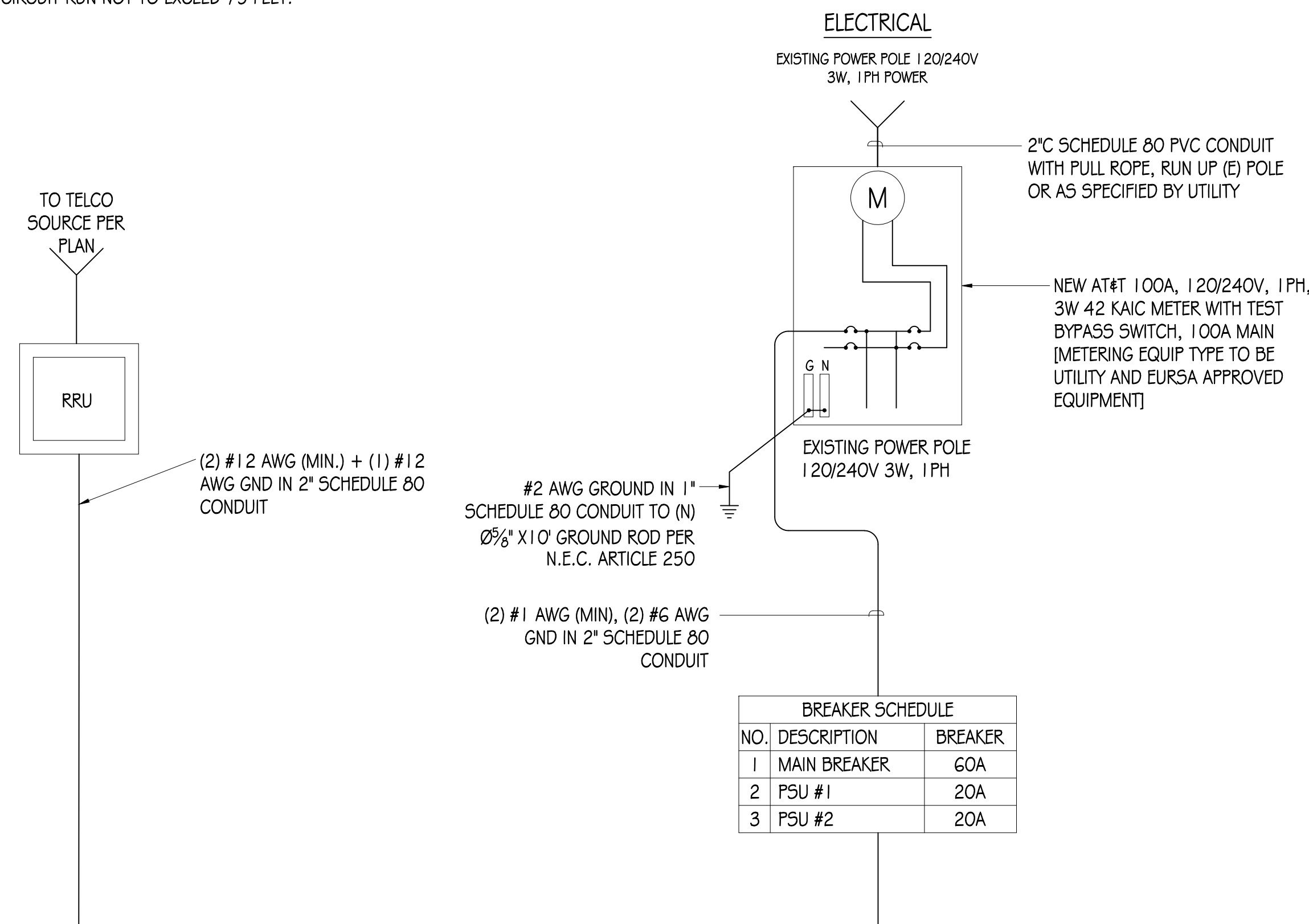
A-6

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 IF THE GIVEN DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.

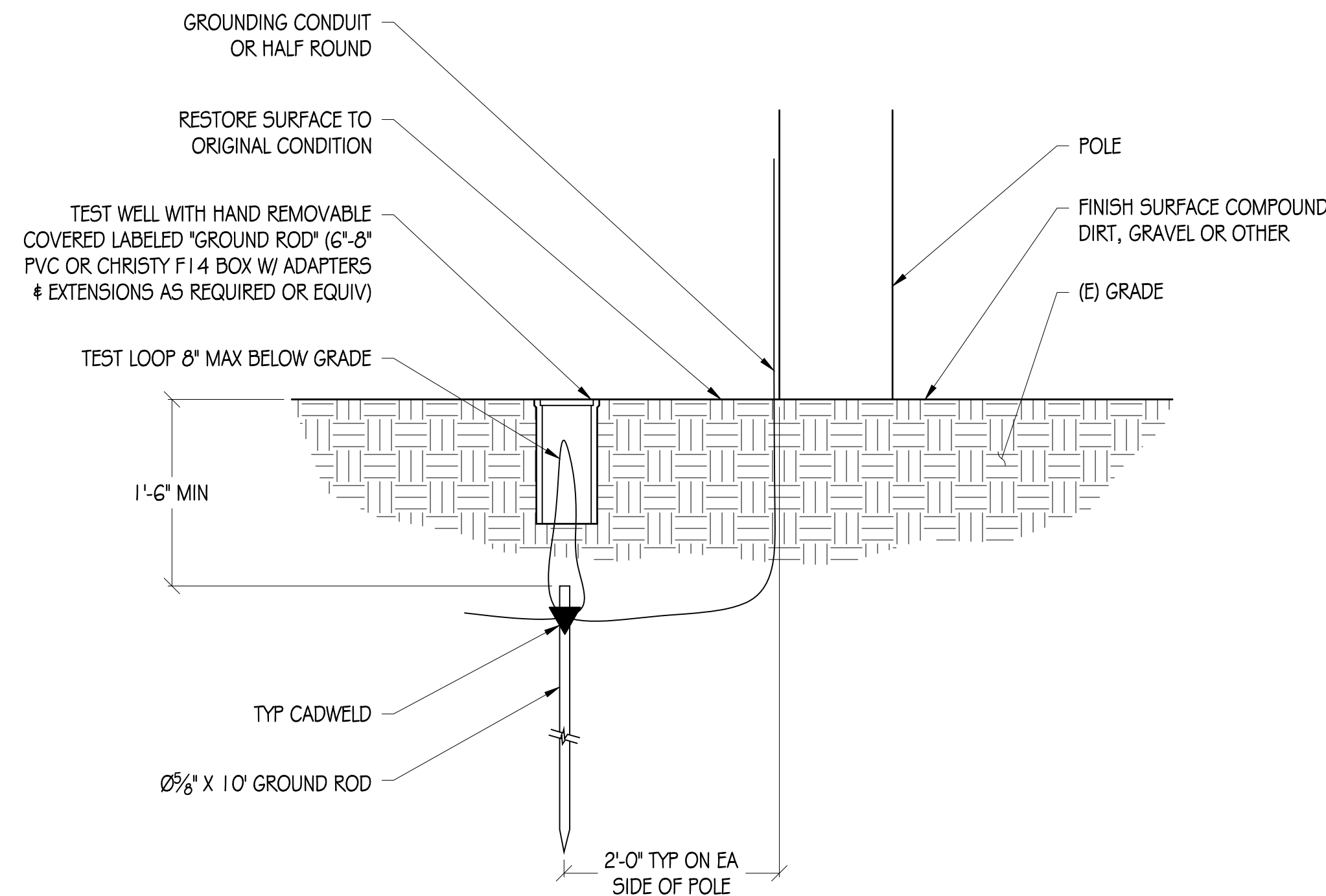
POWER AND TELCO NOTES:

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 ENCASUREMENT 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.
5. CONTRACTOR 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. CONTRACTOR 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.

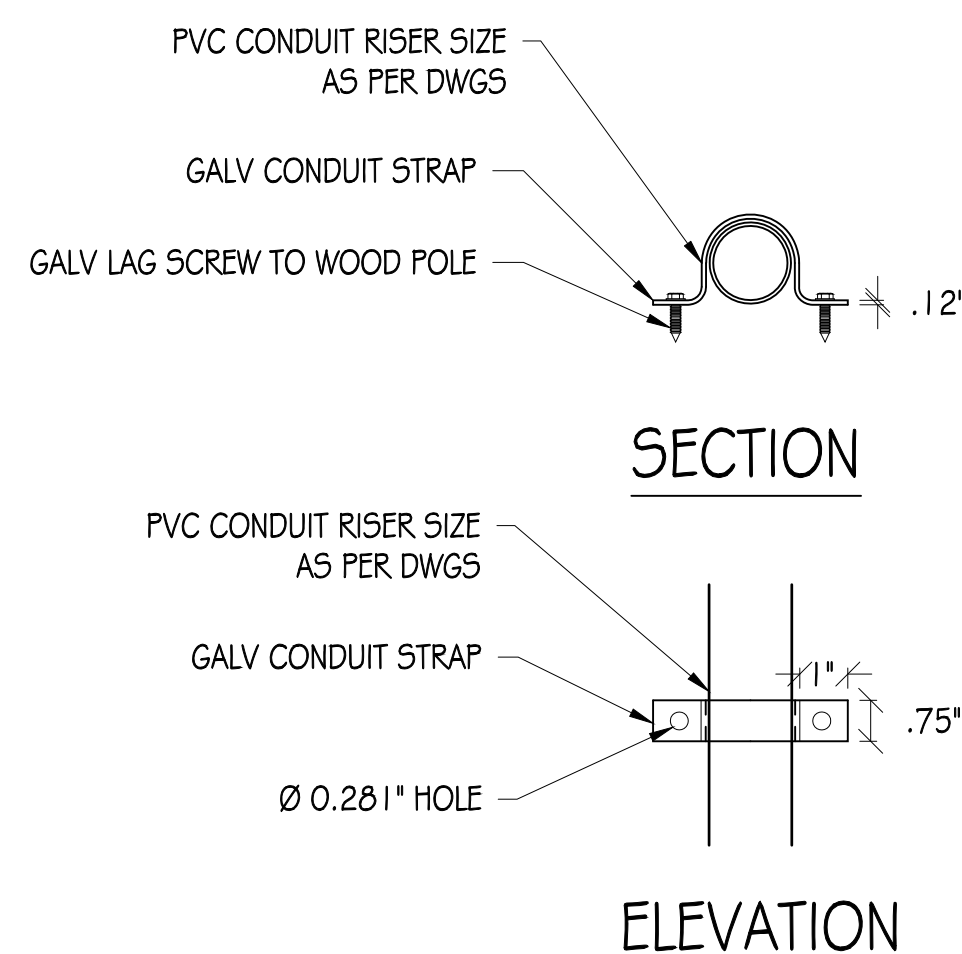


SINGLE-LINE DIAGRAM

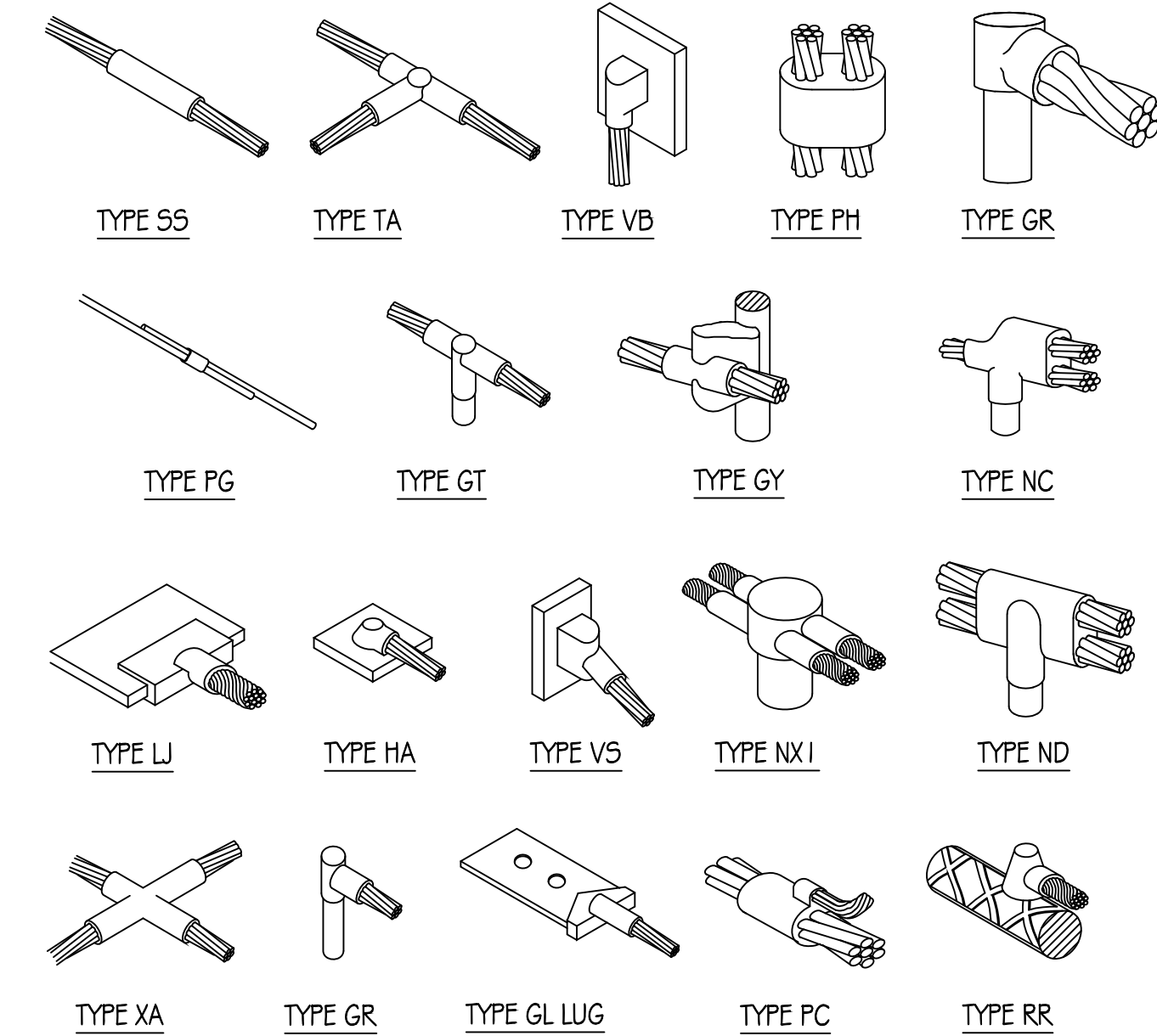
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TX/RX	MAX TRANSMIT POWER	W	KW
ERICSSON RRU5-4415	1	RRU5	16.5" X 13.4" X 5.9"	46 LBS	2T/2R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRU5	19.7" X 17.0" X 7.2"	55 LBS	2T/2R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 8.9" X 4.3"	40 LBS (MAX)	N/A	N/A	N/A	N/A



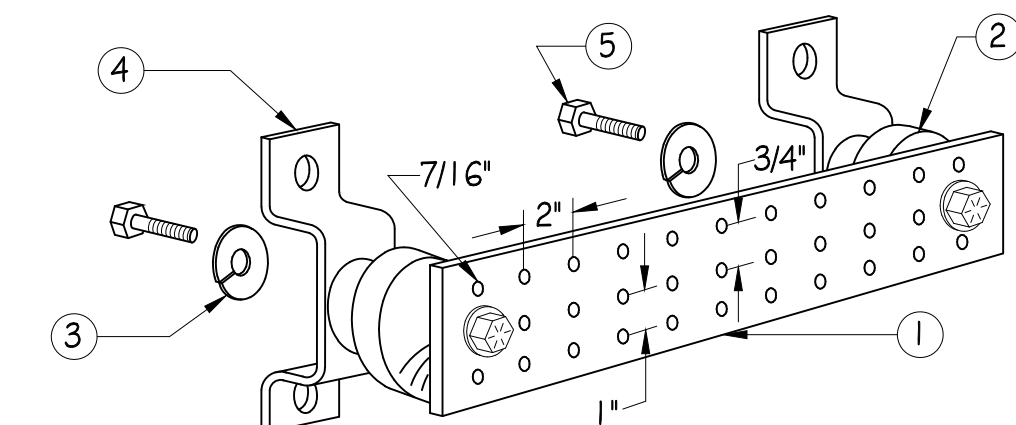
1 POLE GROUNDING DETAIL



3 CONDUIT RISER DETAIL



2 EXOTHERMIC WELD DETAILS



- 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.

4 GROUND BAR DETAIL



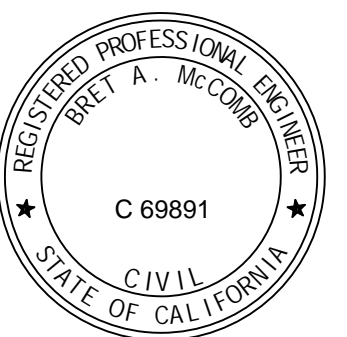
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN PRECISION DESIGN & DRAFTING, INC. WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CAN_RSFR_LO5A0_009

ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

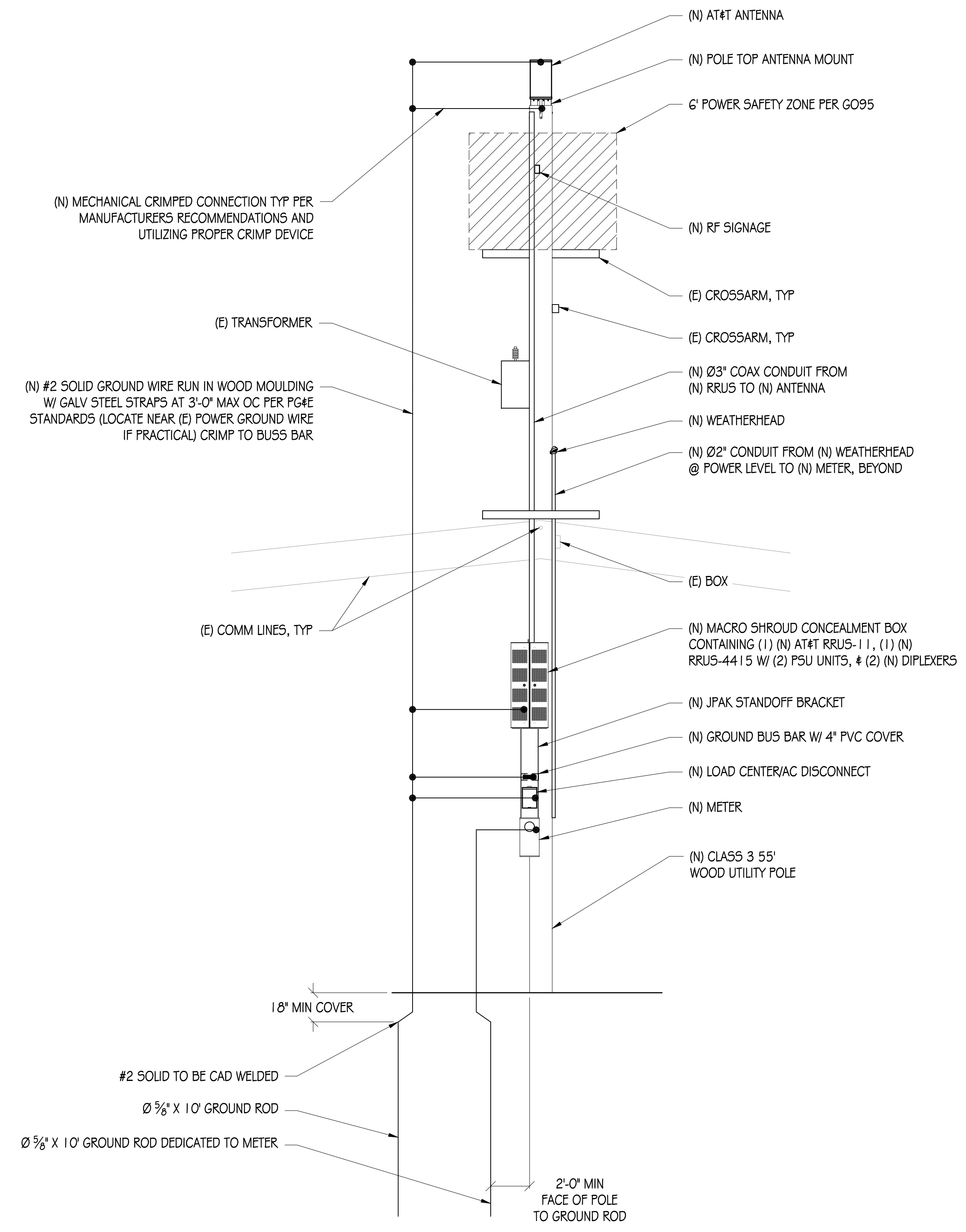
DRAWN BY: IB / BL
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 02/19/19

SHEET TITLE:

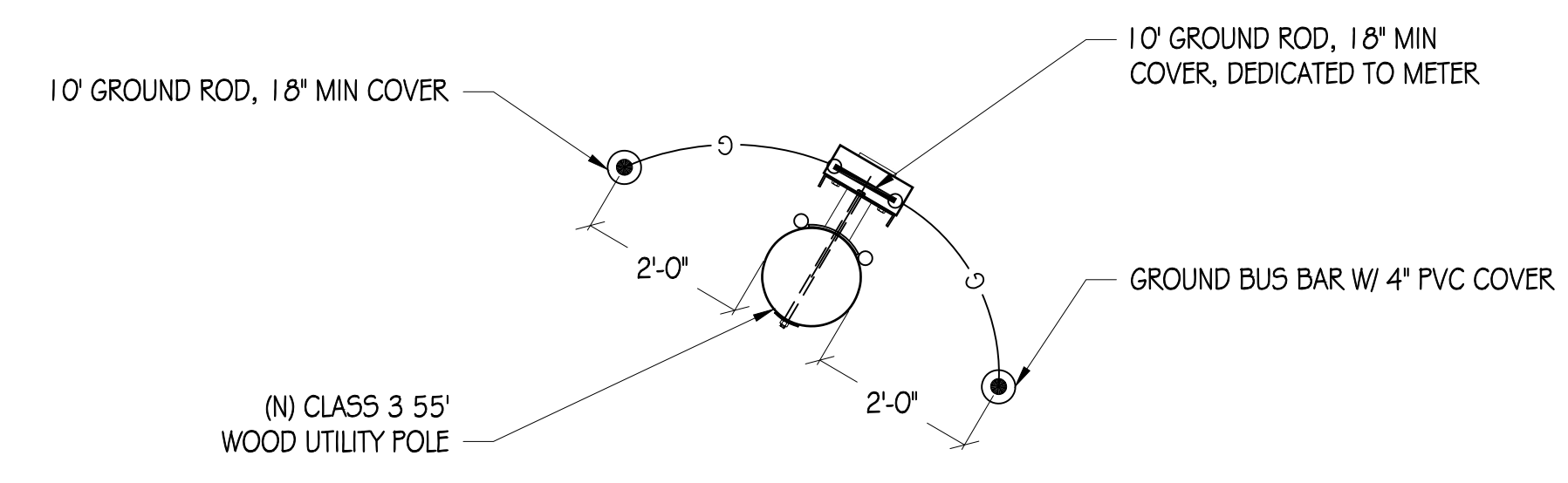
SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER

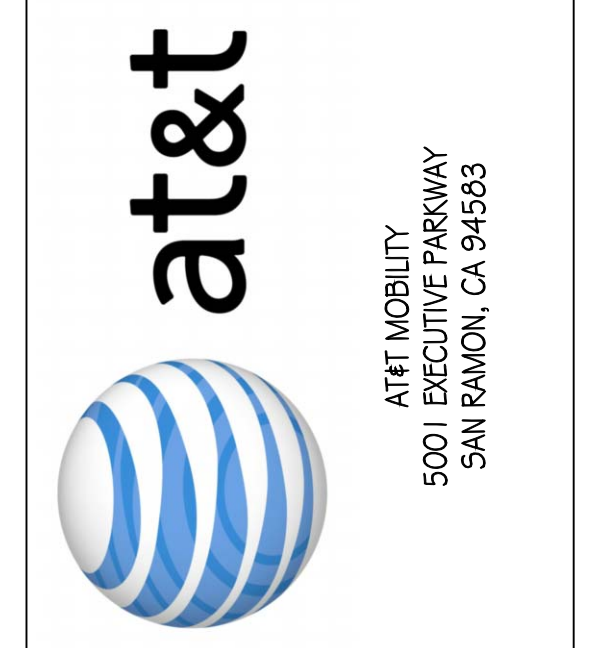
E-1



POLE GROUNDING DIAGRAM
NTS



GROUNDING PLAN
NTS



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LO5AO_009

ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

DRAWN BY: IB / BL
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 02/19/19
SHEET TITLE:

GROUNDING DIAGRAMS

SHEET NUMBER

E-2



at&t

SITE ID:
SITE ADDRESS:

CRAN_RSFR_LOSAO_009
491 PATRICK WY
LOS ALTOS, CA 94022

PM#:
SITE TYPE:
POLE OWNER:
FA LOCATION:
USID:

TBD
BRAND NEW PG&E POLE #TBD
PG&E
14816598
198292



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

SITE INFORMATION

APPLICANT: AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

AGENT: SURESITE
36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

APN: ADJCT TO 167-27-026

SITE ADDRESS: 491 PATRICK WY
LOS ALTOS, CA 94022

COUNTY: SANTA CLARA

LATITUDE: 37° 23' 23.33" N (37.389814) NAD 83

LONGITUDE: 122° 07' 07.84" W (-122.118844) NAD 83

GROUND ELEVATION: ± 128.7' AMSL

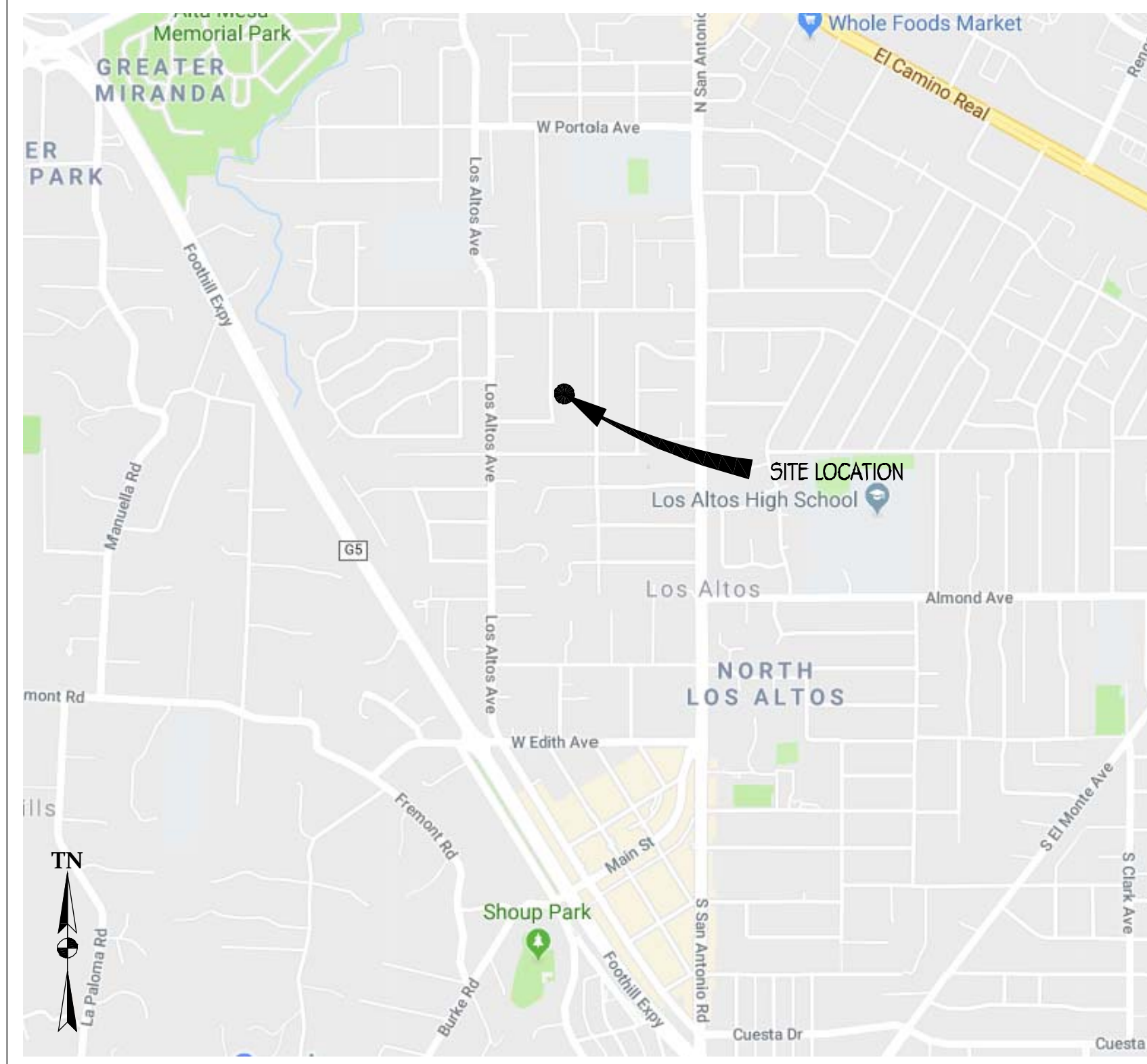
ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

PG&E SAP ID: 100509117

STREET CLASSIFICATION: LOCAL

VICINITY MAP



PROJECT TEAM

AGENT:
SURESITE
2033 GATEWAY PLACE, 6TH FLOOR
SAN JOSE, CA 95110
(949) 278-2962
L.MEINERS@SURE-SITE.COM

PROJECT MANAGERS:
CHRIS JOHNSON
ERICSSON
6140 STONERIDGE MALL RD, SUITE 350
PLEASANTON, CA 94588
(408) 796-8443
CHRISTOPHER.JOHNSON@ERICSSON.COM

ARCHITECT/ENGINEER OF RECORD:
BRET McCOMB
PRECISION DESIGN & DRAFTING, INC
11768 ATWOOD ROAD, SUITE #20
AUBURN, CA 95603
(530) 823-6546
BRET@PDND.COM

CONSTRUCTION MANAGER:
DELBERT BUTCHER
ERICSSON
6140 STONERIDGE MALL ROAD, SUITE 350
PLEASANTON, CA 94588
(720) 317-7282

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT ON A (N) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK:

1. INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON A (N) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON G095 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRU5-4415 & (1) RRU5-11 W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L1OH2-0GT CYLINDRICAL ANTENNA.
2. ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL.
3. UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.
4. FIBER CONNECTION TO BE SECURE UNDER SEPARATE ENCROACHMENT PERMIT.

DRAWING INDEX

SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
T-2	GENERAL NOTES, LEGEND, & ABBREVIATIONS
A-1	SITE PLAN
A-2	EQUIPMENT PLAN & ANTENNA PLANS
A-3	ELEVATIONS
A-4	ELEVATIONS
A-5	DETAILS
A-6	DETAILS
E-1	SINGLE-LINE DIAGRAM & DETAILS
E-2	GROUNDING DIAGRAMS

CODE COMPLIANCE

- CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:
1. 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
 2. 2016 CALIFORNIA BUILDING CODE
 3. 2016 CALIFORNIA ELECTRICAL CODE
 4. 2016 CALIFORNIA MECHANICAL CODE
 5. 2016 CALIFORNIA PLUMBING CODE
 6. 2016 CALIFORNIA FIRE CODE
 7. LOCAL BUILDING CODES
 8. CITY/COUNTY ORDINANCES
 9. ANS/JEIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
TO: 491 PATRICK WY, LOS ALTOS, CA 94022

1. HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR 256 FT
2. TURN RIGHT ONTO SUNSET DR 0.1 MI
3. TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI
4. MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI
5. MERGE ONTO I-680 S 3.9 MI
6. CONTINUE STRAIGHT TO STAY ON I-680 S 17.5 MI
7. TAKE EXIT 12 FOR MISSION BLVD TOWARD I-880 0.2 MI
8. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD 0.3 MI
9. MERGE ONTO CA-262 S/ MISSION BLVD 0.6 MI
10. TAKE THE CA-237 W EXIT TOWARD I-880 0.9 MI
11. MERGE ONTO I-880 S 3.1 MI
12. TAKE THE CA-237 W EXIT TOWARD MTN VIEW 0.9 MI
13. CONTINUE ONTO CA-237 W 8.4 MI
14. KEEP LEFT TO CONTINUE ON CA-237 W 0.5 MI
15. TURN RIGHT ON EL CAMINO REAL 2.0 MI
16. TURN LEFT ONTO DISTEL DR 0.2 MI
17. TURN RIGHT ONTO MARICH WAY 0.1 MI
18. TURN LEFT ONTO PANCHITA WAY 0.2 MI
19. TURN RIGHT ONTO ALVARADO AVE 0.3 MI
20. TURN LEFT ONTO N SAN ANTONIO RD 213 FT
21. TURN RIGHT ONTO PINE LN 0.3 MI
22. TURN LEFT ONTO PATRICK WY 0.2 MI

END AT: 491 PATRICK WAY, LOS ALTOS, CA 94022
ESTIMATED TIME: 49 MINS ESTIMATED DISTANCE: 40.4 MI

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

CALL
"CALL BEFORE YOU DIG"
811/800-227-2600
NATIONWIDE UNDERGROUND SERVICE ALERT

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" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THE CLIENT FOR ANY PROJECT OTHER THAN THAT SPECIFICALLY IDENTIFIED IN THE PROJECT DESCRIPTION. CONSULTATION WITH THE CLIENT IS REQUIRED.



CRAN_RSFR_LOSAO_009

491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.

CHECKED BY: T. D'CARLO

APPROVED BY: B. McCOMB

DATE: 07/25/19

SHEET TITLE:

TITLE SHEET

SHEET NUMBER

T-1

GENERAL CONSTRUCTION NOTES

- PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVYORS MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IS ANY DISCREPANCY IS FOUND BETWEEN THE CAREOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED/ DISRUPTED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- INCLUDE MISC ITEMS PER AIAI WIRELESS SPECIFICATIONS.
- ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHUTDOWN SIGNALS) OR PG&E REGULATIONS SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED LOGOS OR TEXT ON EQUIPMENT (E.G. RUGS), IF PRESENT, TO BE SANDED OFF OR COVERED WITH STICKER, & THEN PAINTED OVER.
- FONDATED RF WAC MARKING SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD THE BUILDING IF THERE IS NO WINDOW.
- ALL EQUIPMENT, INCLUDING ANTENNAS, MOUNTING STANDOFF BRACKETS, POLE EXTENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED MESA BROWN USING A DURABLE OUTDOOR PAINT.
- CABLING SHALL BE MESA BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS, & SHALL BE HIDDEN FROM VIEW TO THE MAXIMUM EXTENT POSSIBLE.
- SUPPORT EQUIPMENT (E.G. METERS, DISCONNECT SWITCH, ETC) TO BE CLUSTERED VERTICALLY AS CLOSE AS TECHNICALLY FEASIBLE ON POLE.

SYMBOLS LEGEND

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

GENERAL NOTES FOR EXISTING CELL SITES

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

APPLICABLE CODES, REGULATIONS, AND STANDARDS

- CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
 - INSTITUTION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT
 - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
 - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS); PHYSICAL PROTECTION
 - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
 - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
 - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
 - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
 - FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

- MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
- ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED.
- IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- IN DIRT SLURRY 1" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BATTERY TAIL
- WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #1 & 6 WARNING TAPE ABOVE RING.

GENERAL GROUNDING NOTES

- 5/8" x 1/2" ROD, CAD WELD BELOW GRADE
- GROUND TESTED AT 5 OHMS OR LESS.
- #2 GROUND AND BOND WIRE
- GROUND 2" MIN FROM POLE.
- PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBD OR STRONG BOX.
- WOOD MOULDING, STAPLED EVERY 3" AND AT EACH END, UNLESS OTHERWISE NOTED.

GENERAL CONDUIT NOTES

- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE.
- 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 1" THEN CONVERT TO SCHEDULE 80.
- CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
- CONTRACTOR TO STUB UP POLE 10" w/ 3" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 3" STUBS SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.

TYPICAL R.O.W. POLE CONSTRUCTION NOTES

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

ABBREVIATIONS

A	AMPERE	HT	HEIGHT
AB	ANCHOR BOLT	ICB	ISOLATED COPPER GROUND BUSH
ABY	ABOVE	IN, (I)	INCHES
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT	INTERIOR
ADD	ADDITIONAL	LB, (L)	POUNDS
AFF	ABOVE FINISHED FLOOR	LAG	LAG BOLTS
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET (FOOT)
AG	AMPERE INTERRUPTING CAPACITY	LTH	LENGTH
ALUM	ALUMINUM	L	LONGITUDINAL
ALT	ALTERNATE	LP5	LOW PRESSURE SODIUM
ANT	ANTENNA	MAS	MAXIMUM
APPROX	APPROXIMATELY	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MB	MACHINE BOLT
AT	AMPERE TAP	MCH	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MFR	MANUFACTURER
BATT	BATTERY	MIN	MINIMUM
BD	BOARD	MISC	MISCELLANEOUS
BLDG	BUILDING	MNL	MANUAL
BLK	BLOCK	MNTD	MOUNTED
BLDG	BLOCKING	MNTG	MOUNTING
BM	BEAM	MTL	METAL
BN	BOUNDARY NAILING	MTS	MANUAL TRANSFER SWITCH
BR	BRAVED	N	NEUTRAL
BRKR	BREAKER	NI	NEW
BTOW	BARE TINNED COPPER WIRE	NI	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BTS	BASE TRANSMISSION SYSTEM	NO, (N)	NUMBER
BOF	BOTTOM OF FOOTING	NTS	NOT TO SCALE
BU	BACK UP CABINET	OH	OVERHEAD
C	CONDUIT	OC	ON CENTER
CAB	CABINET	OPNG	OPENING
CANT	CANTILEVERED	P	POLE
CB	CIRCUIT BREAKER	PCC	PRESSCAST CONCRETE
CP	CAST IN PLACE	PCS	PERSONAL COMMUNICATION SERVICES
CR	CIRCUIT	PH	PHASE
CLG	CEILING	PLY	PLYWOOD
CLR	CLEAR	PNLBD	PANELBOARD
COL	COLUMN	PPC	POWER PROTECTION CABINET
CONN	CONNECTION	PRI	PRIMARY
CONC	CONCRETE	PRI	PRIMARY
CONN	CONNECTION(OR)	PSF	POUNDS PER SQUARE FOOT
CONST	CONSTRUCTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTAINER	PT	PRESSURE TREATED
J	JOINT	PT	PRESSURE TREATED
DBL	DOUBLE	PWR	POWER (CABINET)
DEM	DEMAND	QTY	QUANTITY
DEPT	DEPARTMENT	RAD, (R)	RADIUS
DF	DOUGLAS FIR	RCPT	RECEPTACLE
DM	DIMENSION	RFS	REINFORCING
DIAG	DIAGONAL	REIN	REINFORCEMENT(ING)
DN	DOWN	REQD	REQUIRED
DWG	DRAWING(S)	RSD	RIGID GALVANIZED STEEL
DWL	DOWEL(S)	SAF	SAFETY
EAC	EMERGENCY GENERATOR RECEPTACLE	SCH	SCHEDULE
ER	EMERGENCY	SCH	SECONDARY
EL	ELEVATION	SEC	SECONDARY
ELEV	ELEVATION	SEC	SECONDARY
ELEV	ELEVATION	SIM	SHEET
EMT	ELECTRICAL METALLIC TUBING	SN	SOLID NEUTRAL
EN	EDGE NAIL	SPEC	SPECIFICATIONS
ENCL	ENCLOSURE	SQ	SQUARE
ENGR	ENGINEER	SS	STAINLESS STEEL
EQ	EQUAL	STD	STANDARD
EQ	EQUAL	STR	STRUCTURAL
EXT	EXPANSION	STRUC	STRUCTURAL
EXT	EXTERIOR	SURF	SURFACE
FAB	FABRICATION(OR)	SW	SWITCH
FAC	FACTOR	TEL	TELEPHONE </td
FA	FIRE ALARM	TEMP	TEMPORARY
FF	FINISH FLOOR	THK	THICKNESS
FG	FINISH GRADE	TN	TOE NAIL
FN	FINISHED	TOA	TOP OF ANTENNA
FLR	FLOOR	TOC	TOP OF CURB
FLUR	FLUORESCENT	TOP	TOP OF FOUNDATION
FM	FACE OF MASONRY	TOP	TOP OF PLATE (PARAPET)
FOM	FACE OF MASONRY	TOP	TOP OF STEEL
FS	FACE OF STUD	TOW	TOP OF WALL
FOW	FACE OF WALL	TP	TYPICAL
FSP	FINISH SURFACE	UG	UNDER GROUND
FT, (F)	FOOT (FEET)	UL	UNDERWRITERS LABORATORY INC.
FT, (F)	FOOTING	UNO	UNLESS NOTED OTHERWISE
FU	FUSE	VOL	VOLT ALTERNATING CURRENT
G	GROUND	VIF	VERIFY IN FIELD
GR	GROWTH (CABINET)	W	WAIT OR WIRE
GA	GAUGE	WD	WIDEN(WIDTH)
GEN	GENERATOR	WI	WITH
GALV	GALVANIZED	WO	WOOD
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WT	WEATHERPROOF
GLB	GLUE LAMINATED BEAM	WT	WEIGHT
GND	GROUND	XFR	TRANSFER
GFS	GLOBAL POSITIONING SYSTEM	XFR	TRANSFER
GRD	GROUND	XFR	TRANSFER
HDC	HARD DRAWN COPPER WIRE	Y	CROSS-LINE POLYETHYLENE
HDE	HOT-DIP GALVANIZED	Z	CENTERLINE
HDR	HANGER	E	PLATE
HGR	HANGER		
HPS	HIGH PRESSURE SODIUM		



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdrd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. NO PART OF THESE PLANS OR SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_009

491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	07/25/19	CD 100%

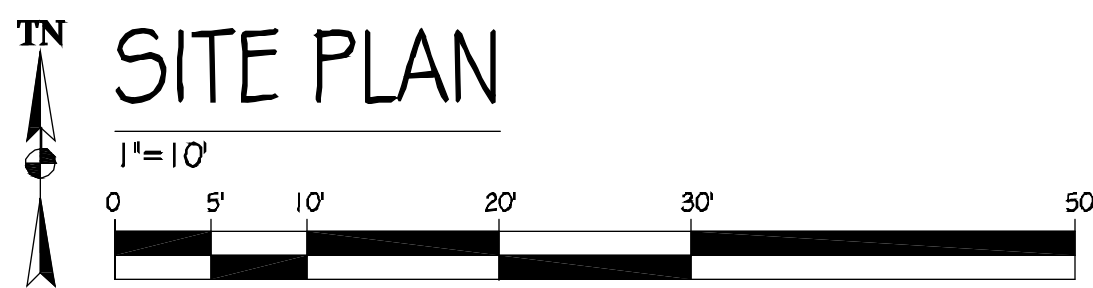
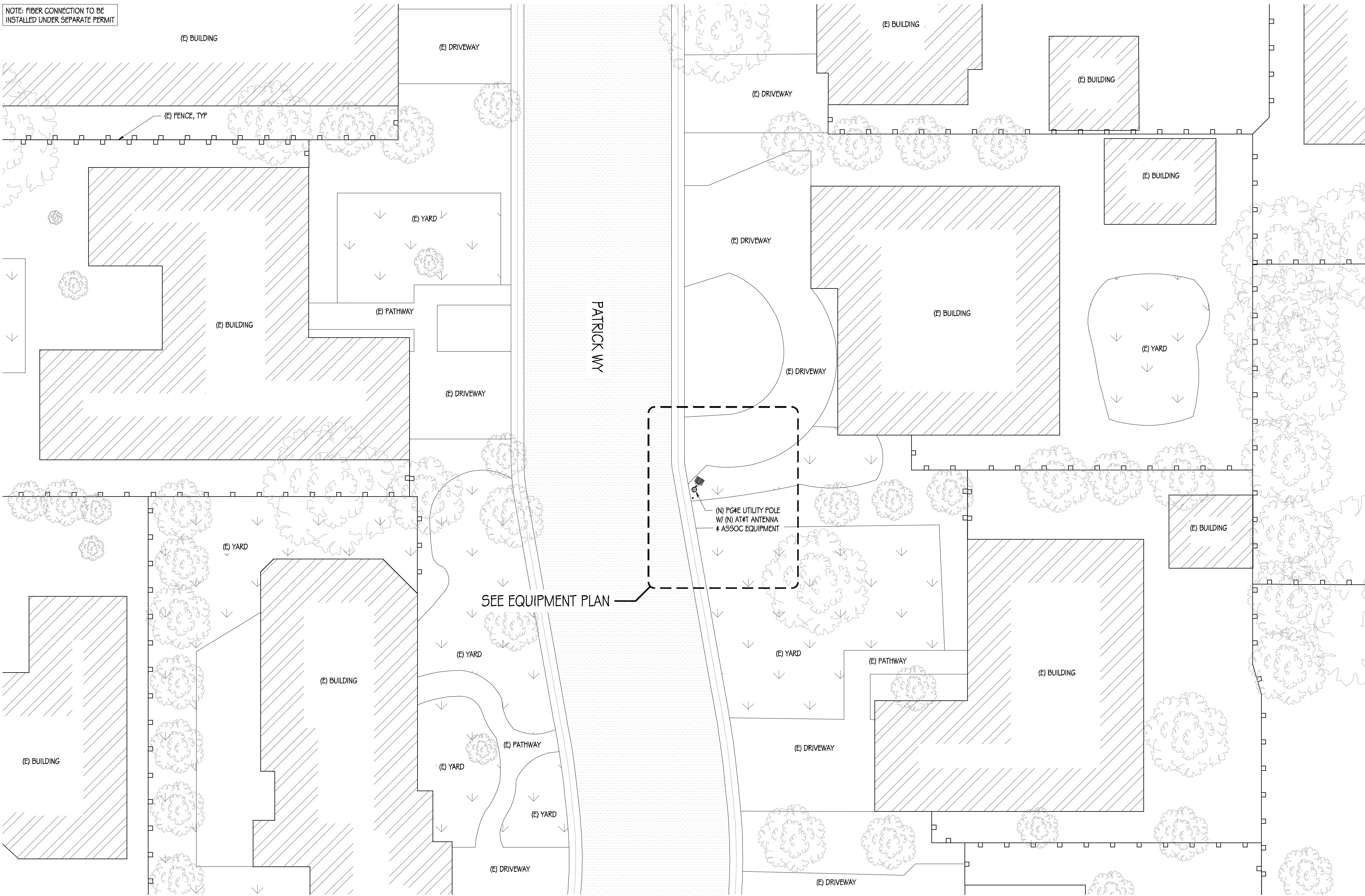
DRAWN BY: T.J. / B.L.
CHECKED BY: T. D'CARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:
GENERAL NOTES, LEGEND,
& ABBREVIATIONS

SHEET NUMBER

T-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN OUR CLIENTS WITHOUT OUR WRITTEN CONSENT. Copyright © 2011, Precision Design & Drafting, Inc. All rights reserved.



CRAN_RSFR_LO5A0_009

491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

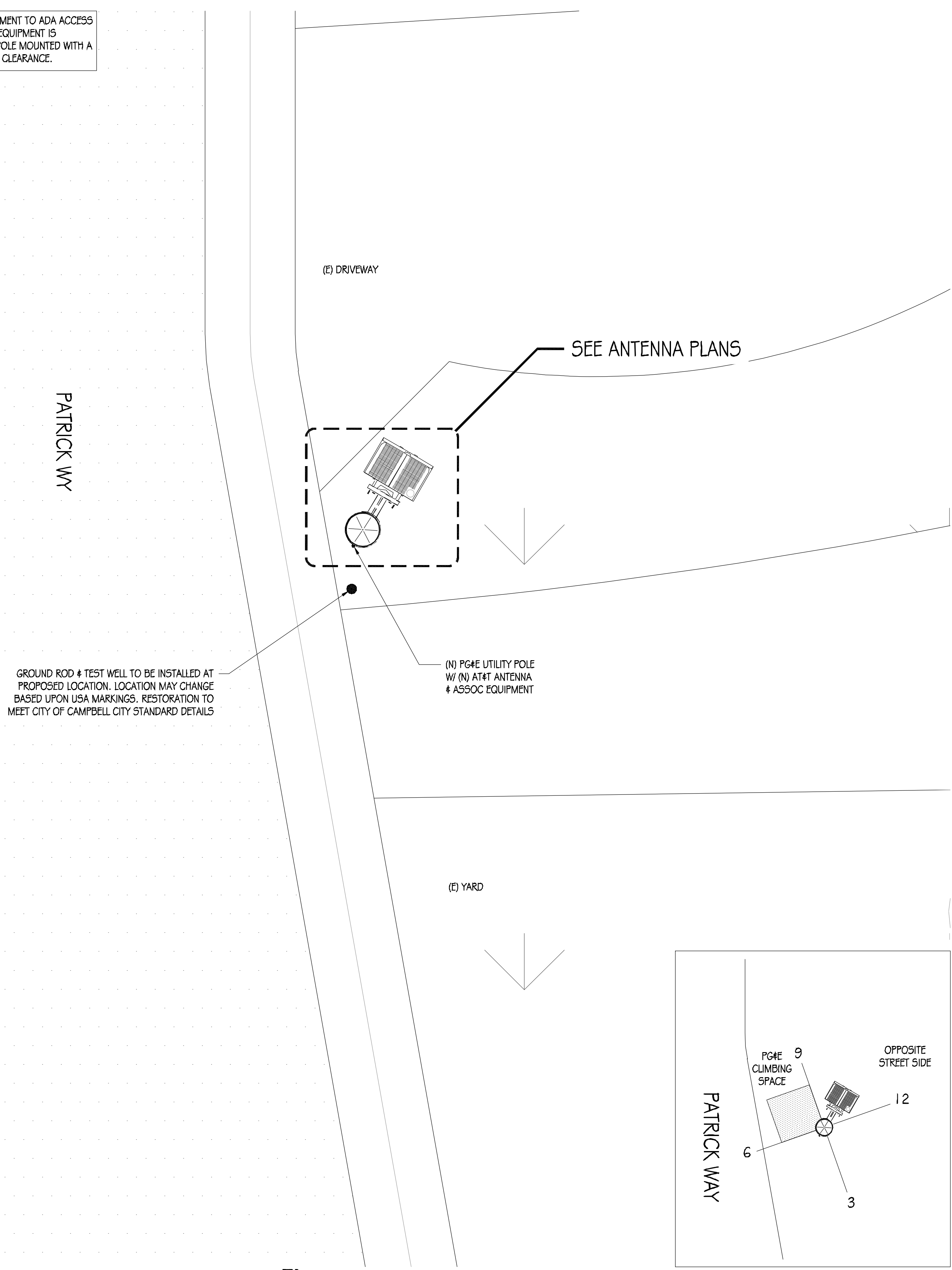
SHEET TITLE:

SITE PLAN

SHEET NUMBER

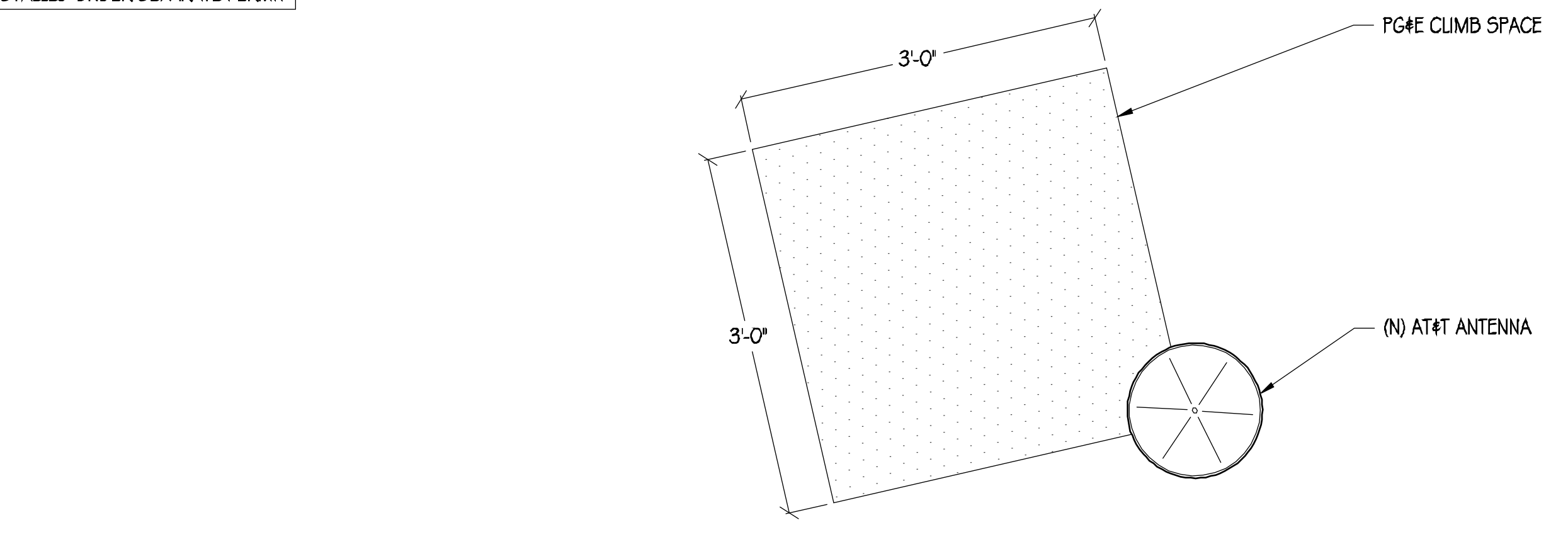
A-1

NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.

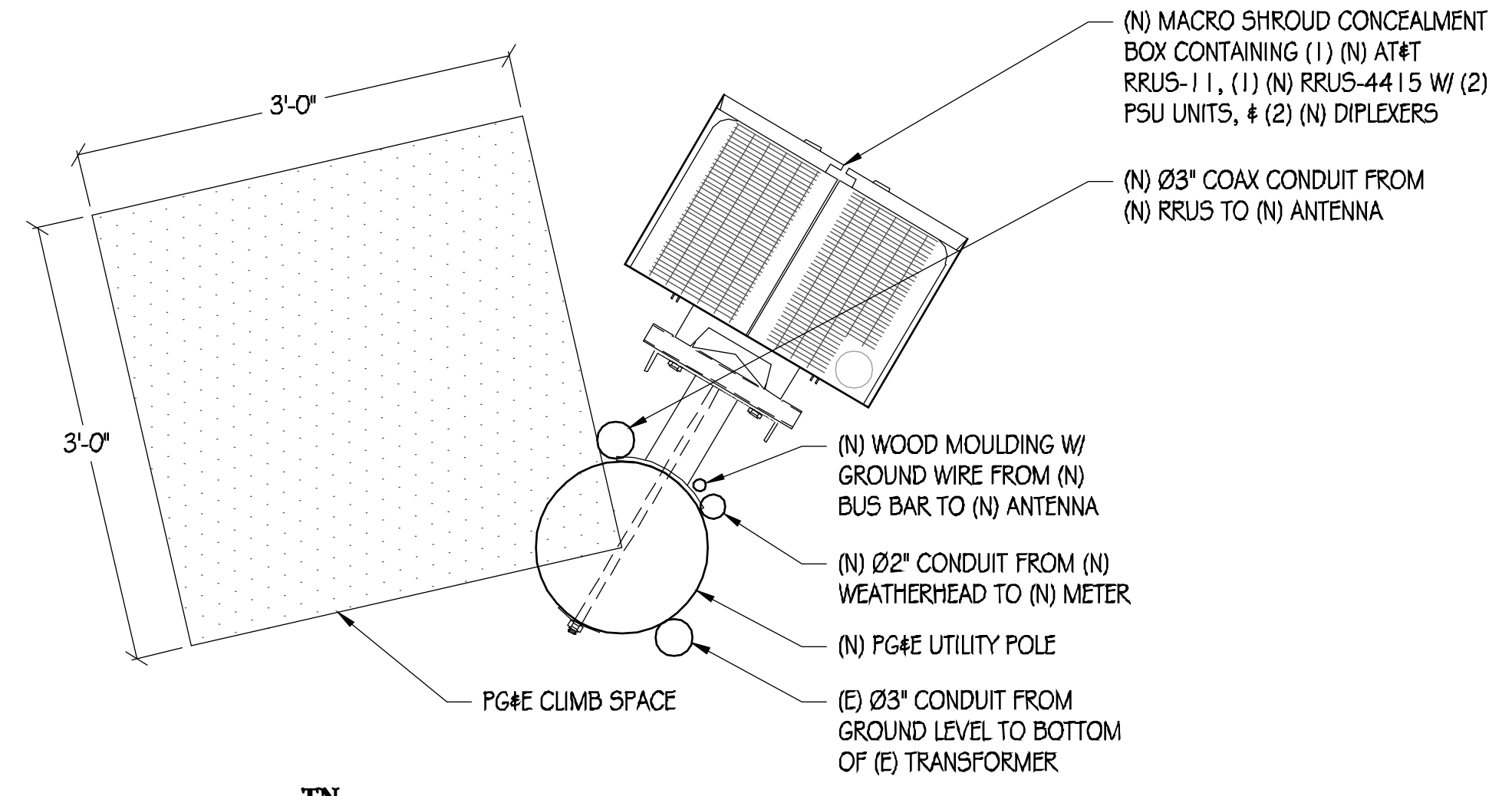


TN
1/2"=1'
EQUIPMENT PLAN

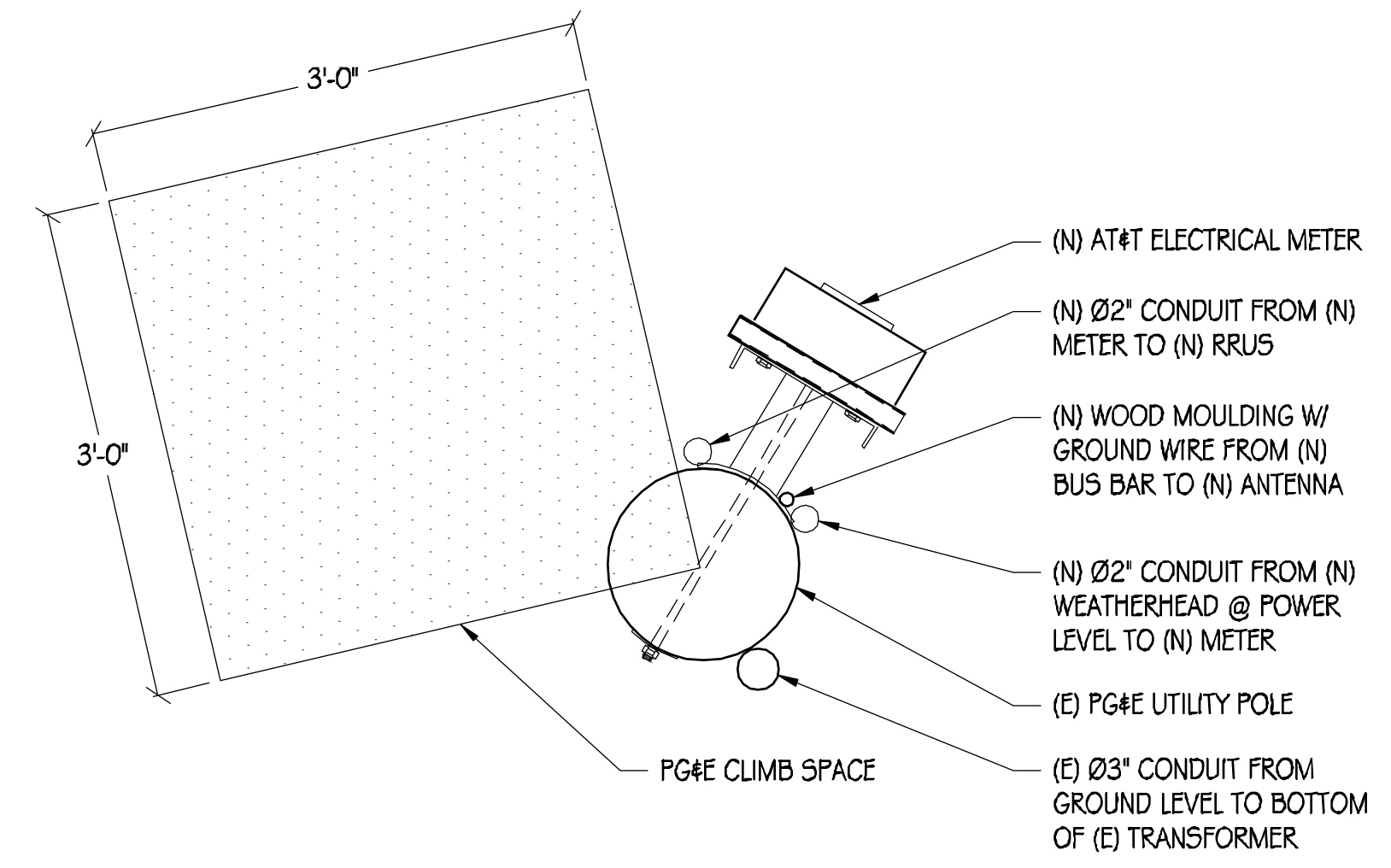
NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



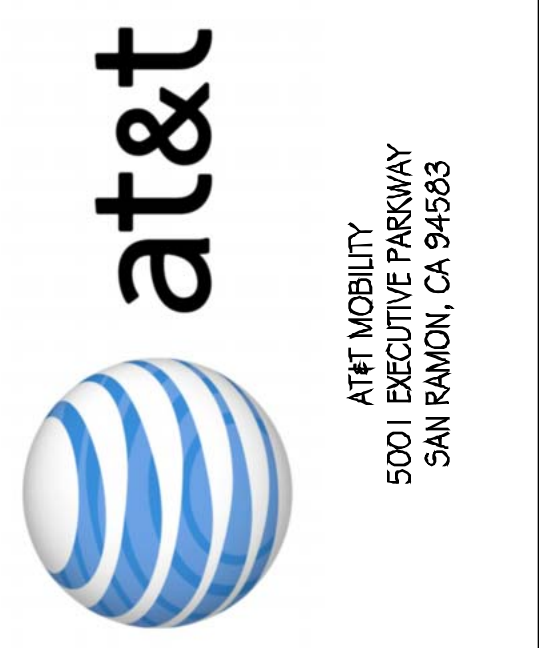
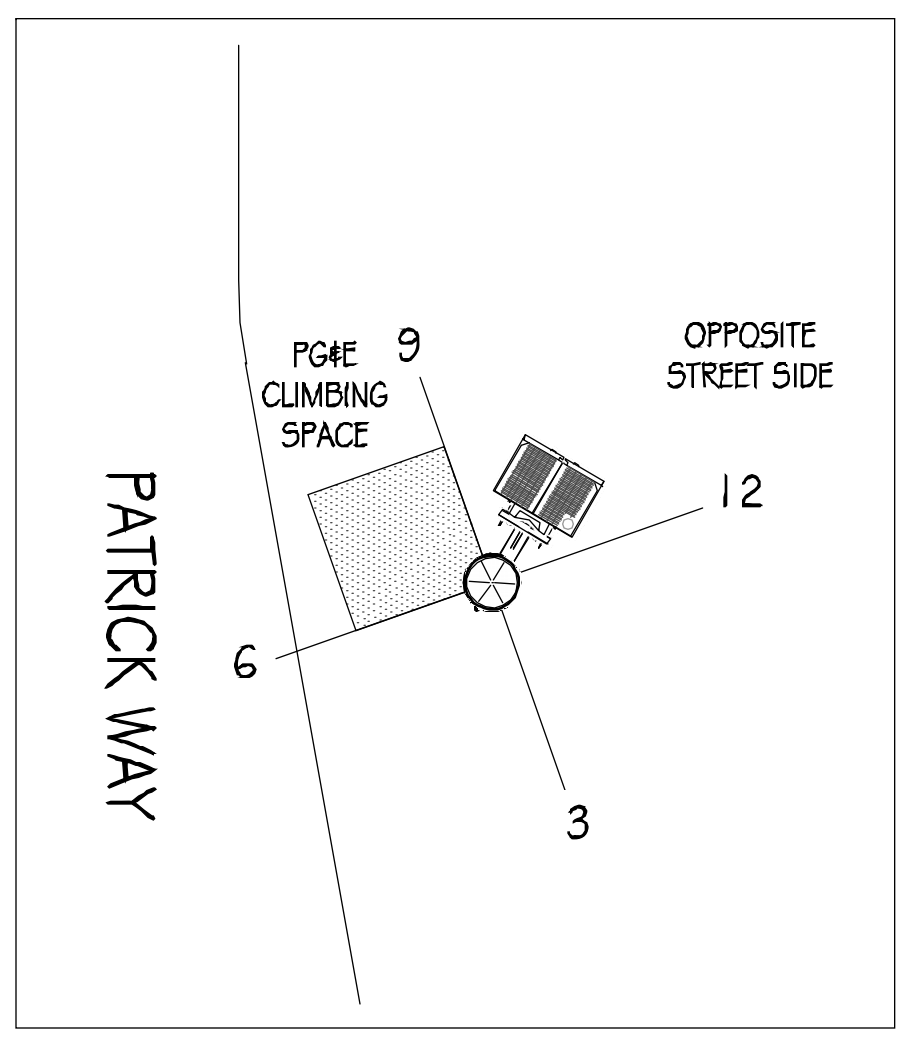
TN
1"=1'
ANTENNA PLAN



TN
1"=1'
RRU PLAN



TN
1"=1'
ELECTRICAL METER PLAN



PRECISION DESIGN & Drafting, INC.
 Phone: (530) 822-6546 www.pdnd.com
 11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN OUR CLIENTS WITHOUT OUR WRITTEN PERMISSION. COPYRIGHT © 2011, PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOS0A0_009

491 PATRICK WY
 LOS ALTOS, CA 94022

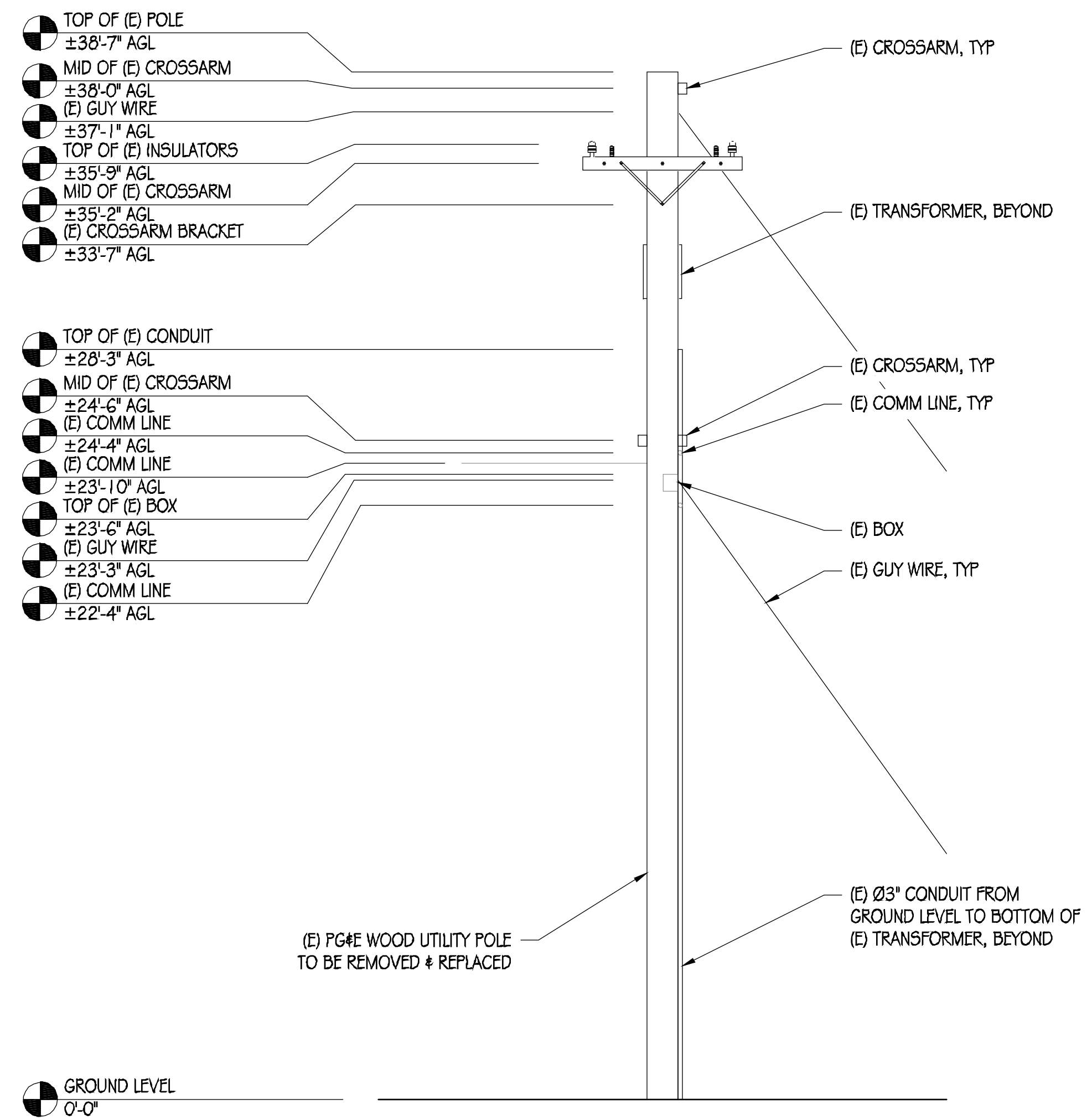
ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/25/19
 SHEET TITLE:

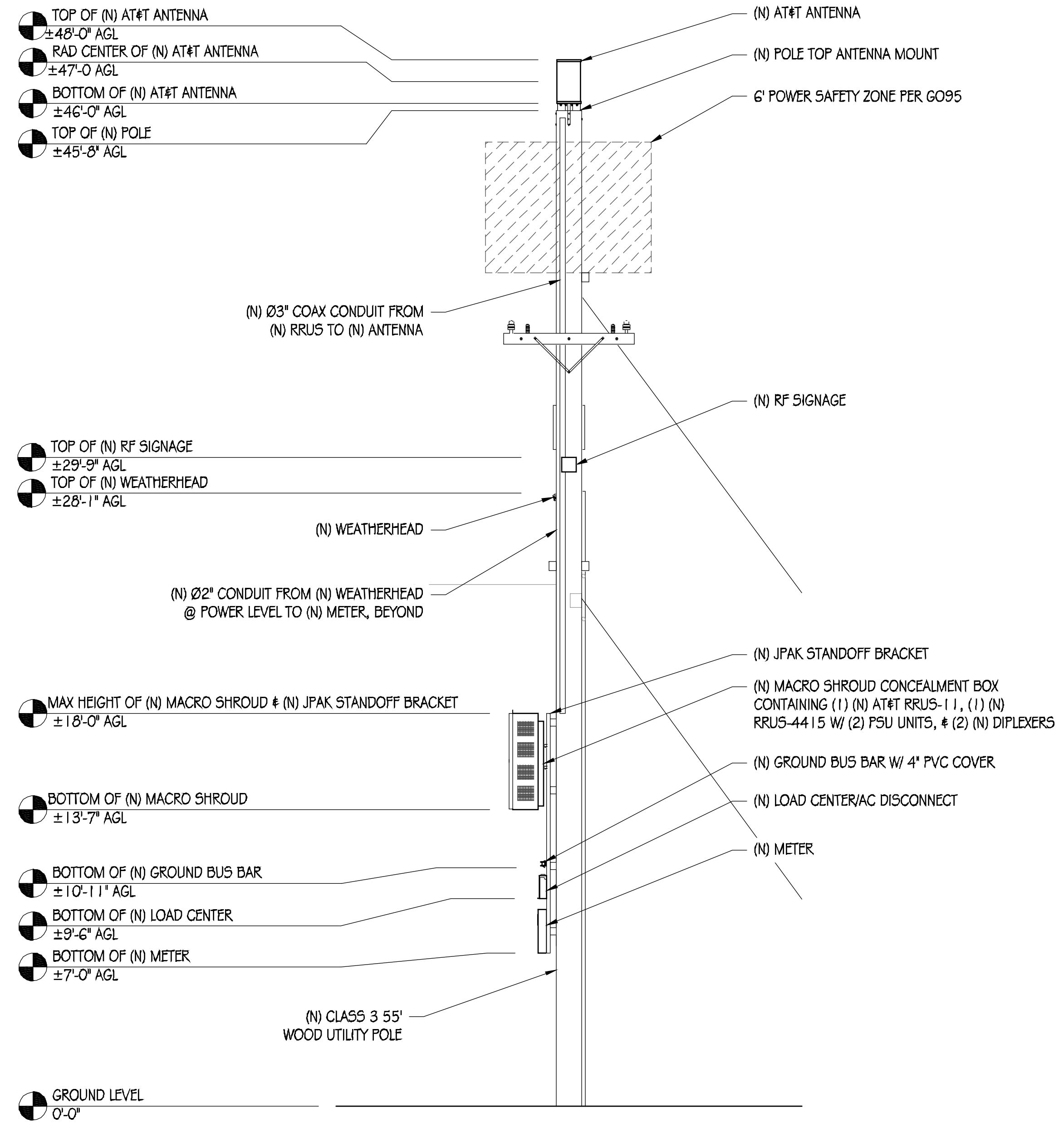
EQUIPMENT PLAN # ANTENNA PLANS
 SHEET NUMBER
A-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING WEST ELEVATION

1/4" = 1'-0"



NEW WEST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.

Phone: (530) 823-6546 www.pdrnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS ARE HEREBY OFFERED AS A PROFESSIONAL SERVICE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED IN ANY PROJECT OR IN ANY OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF PRECISION DESIGN DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LO5AO_009

491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

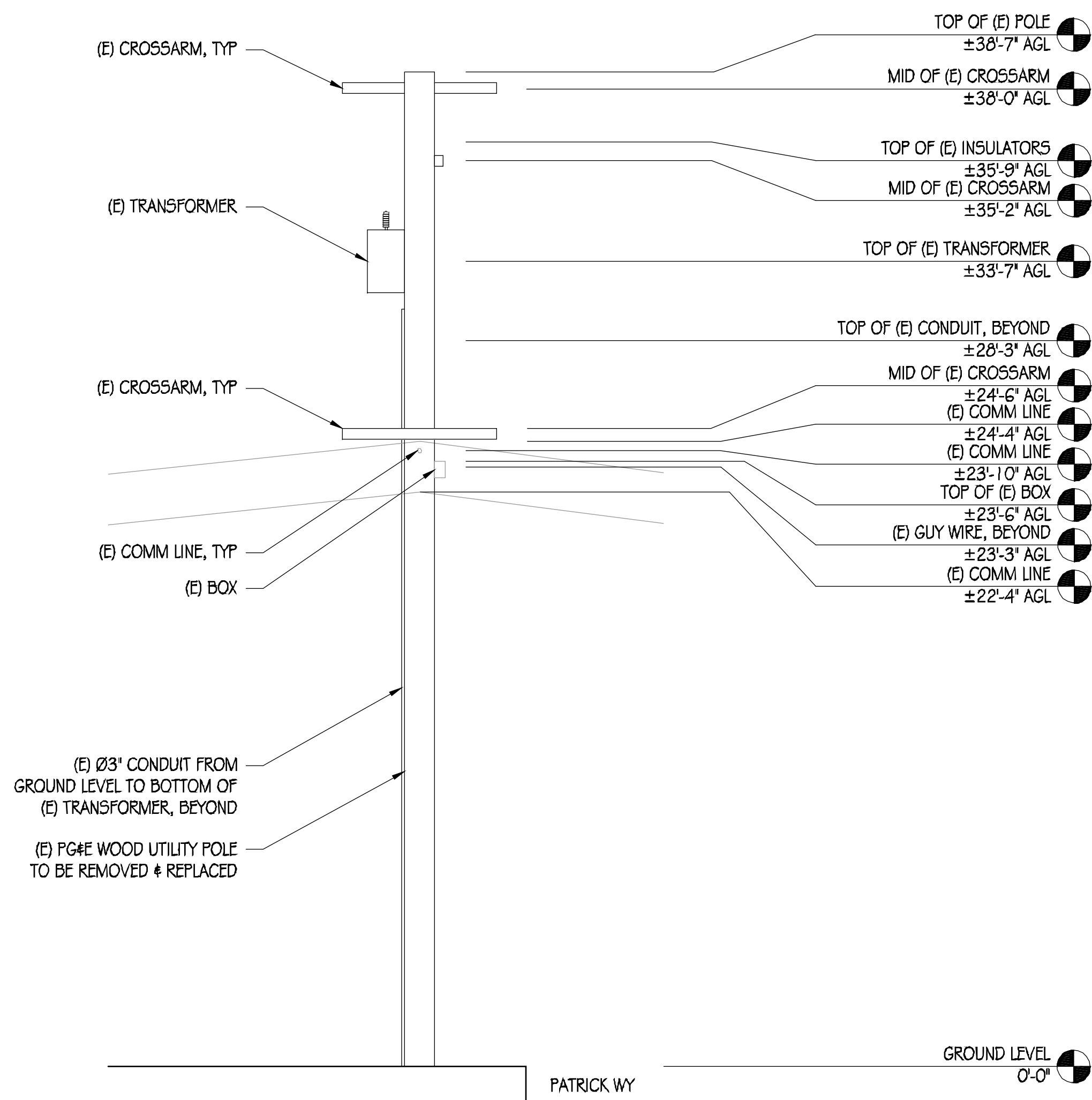
SHEET TITLE:

ELEVATIONS

SHEET NUMBER

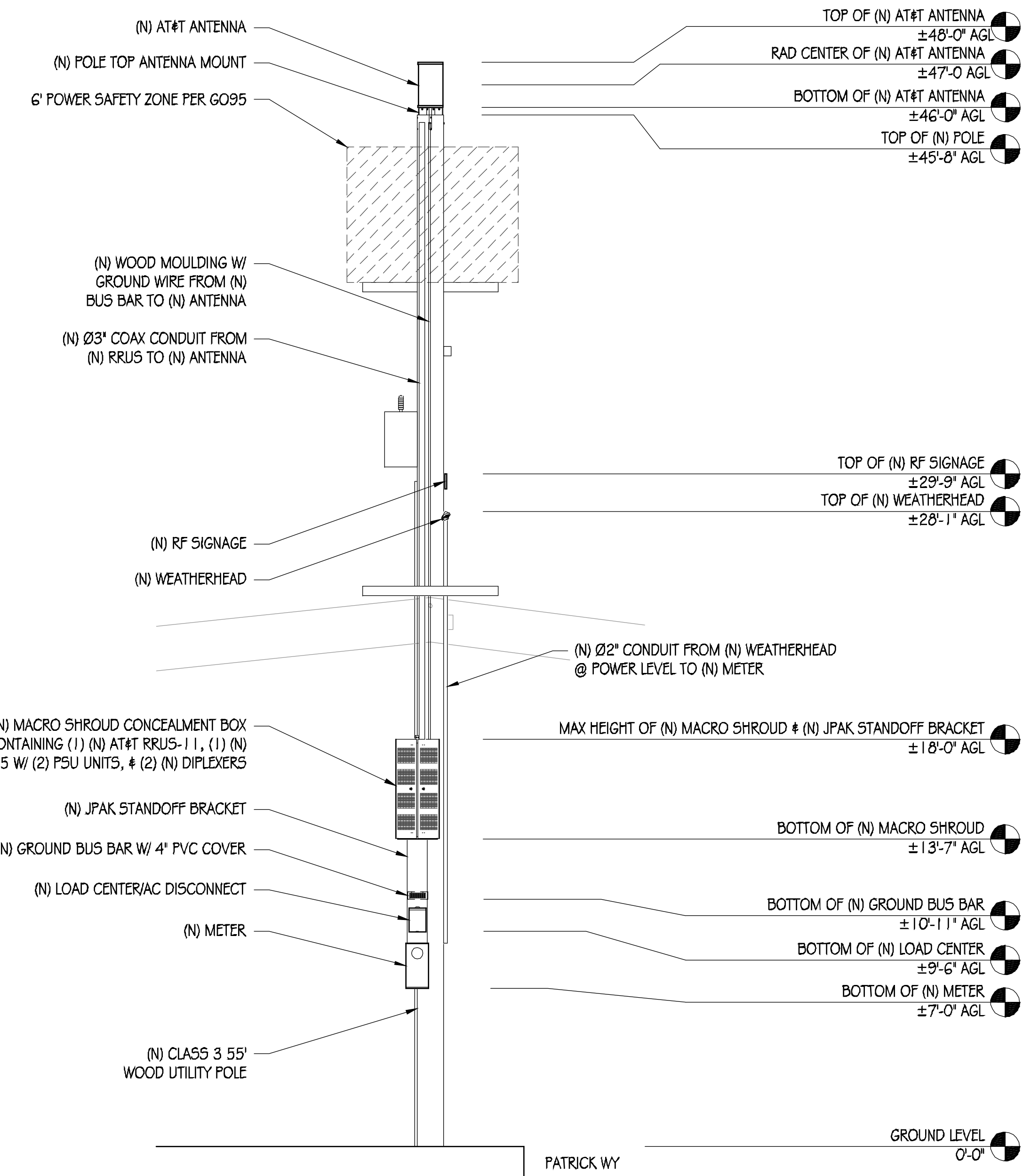
A-3

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THIS PLAN AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE OUR SOLE PROPERTY AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN OUR CLIENTS WITHOUT OUR WRITTEN PERMISSION. COPYRIGHT © 2011 PRECISION DESIGN DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN_RSFR_LOSAO_009

491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMBE
DATE: 07/25/19

SHEET TITLE:

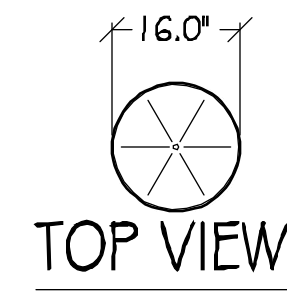
ELEVATIONS

SHEET NUMBER

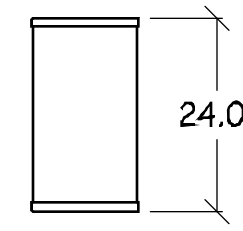
A-4

KMW FX-OM2L1OH2-06T

WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø 16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



TOP VIEW

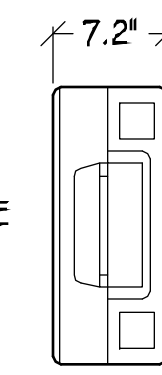


FRONT VIEW

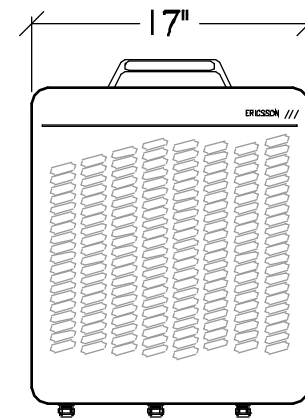
1 ANTENNA
 1/2"=1'

ERICSSON RRUS-11

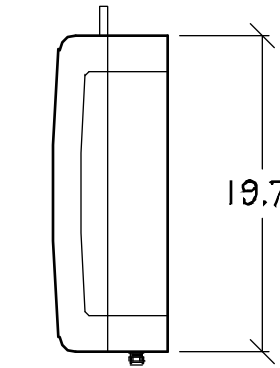
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

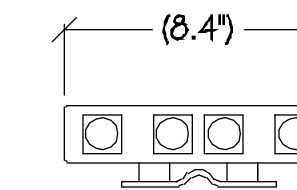


SIDE VIEW

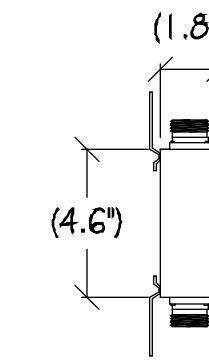
2 RRUS-11 DETAIL
 1"=1'

COMMSCOPE
 CBC1923T-4310/
 E11F13P06

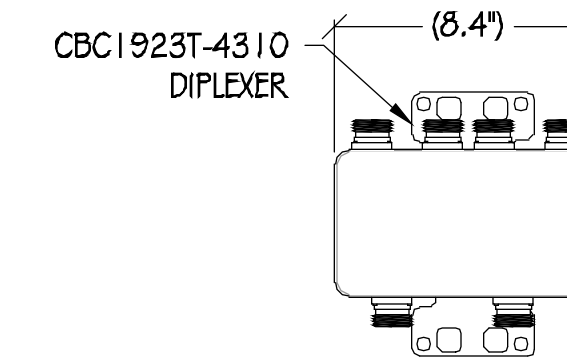
COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

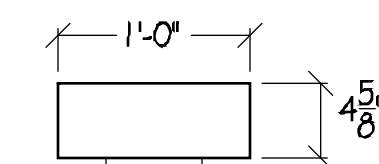


SIDE VIEW



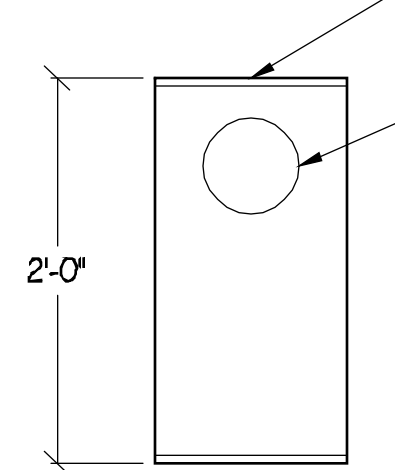
FRONT VIEW

3 DIPLEXER DETAIL
 1"=6"

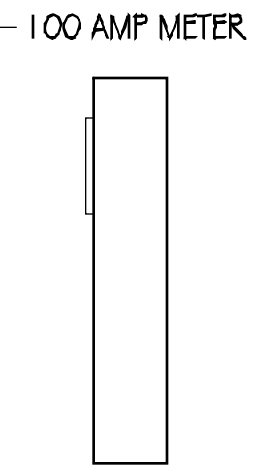


TOP VIEW

COOPER B-LINE 114TB ELECTRICAL PANEL TO MEET COMMERCIAL PG&E REQUIREMENTS WITH TEST BYPASS



FRONT VIEW

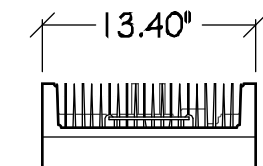


SIDE VIEW

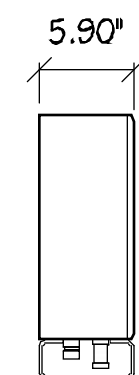
4 METER DETAIL
 1"=1'

ERICSSON RRUS-4415

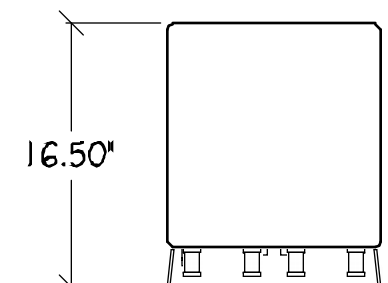
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

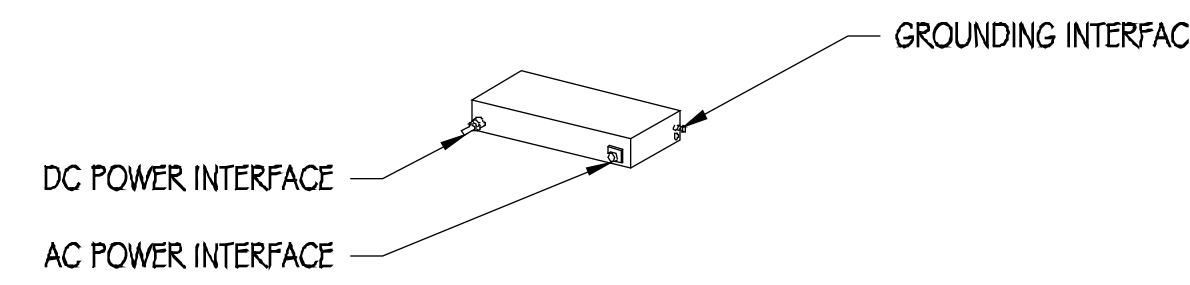


FRONT VIEW

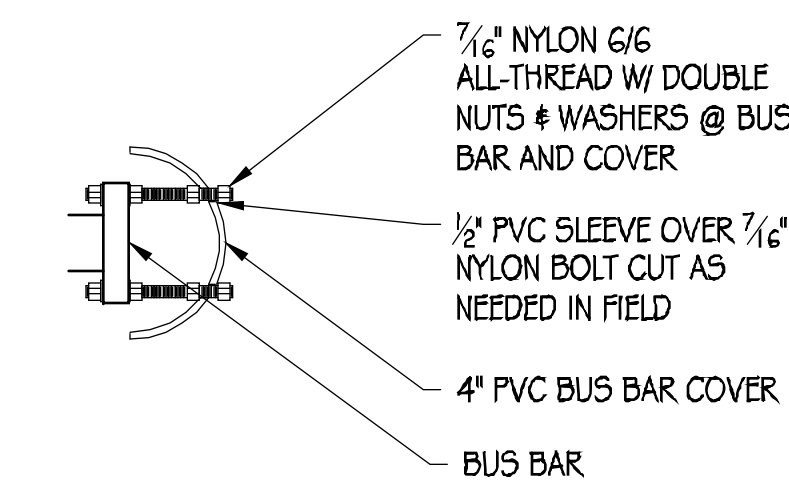
5 RRUS-4415 DETAIL
 1"=1'

ERICSSON PSU AC 08

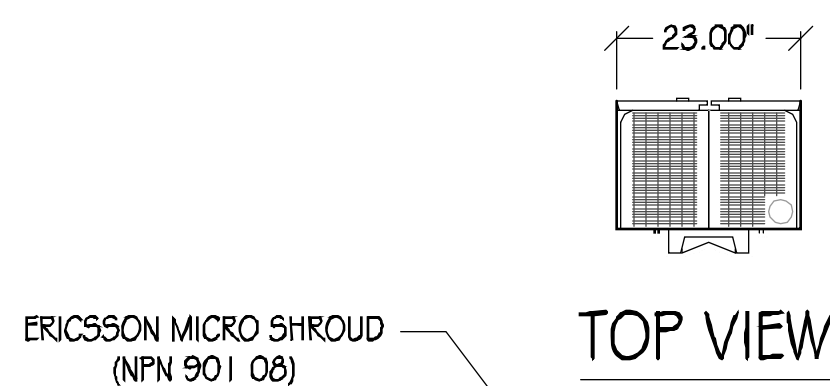
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



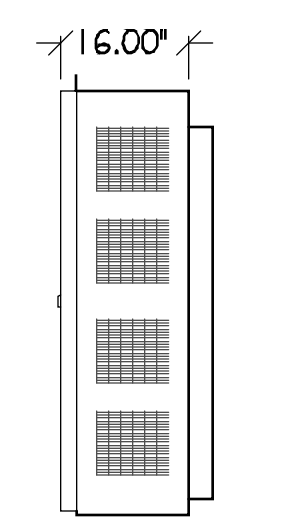
6 AC POWER MODULE
 NTS



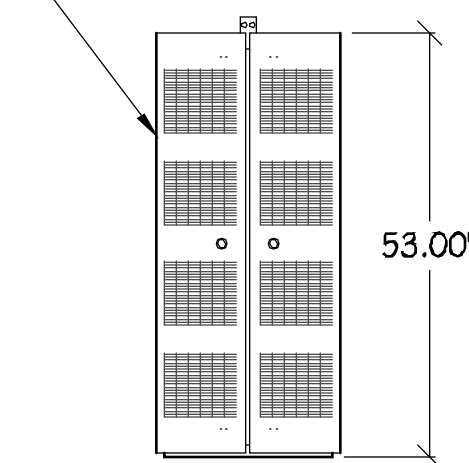
7 BUS BAR COVER
 6"=1'



TOP VIEW

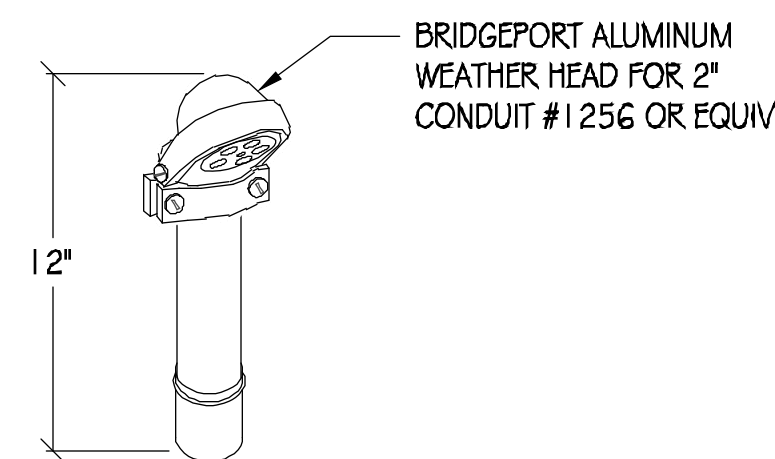


SIDE VIEW



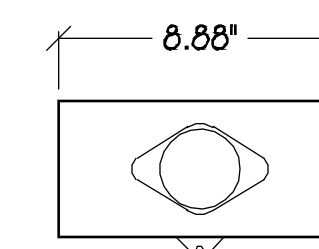
FRONT VIEW

8 MICRO SHROUD CONCEALMENT
 1/2"=1'

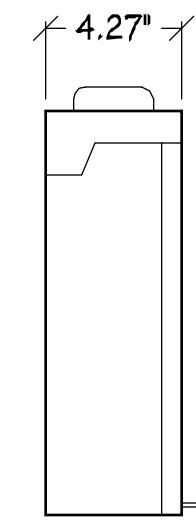


9 WEATHER HEAD
 NTS

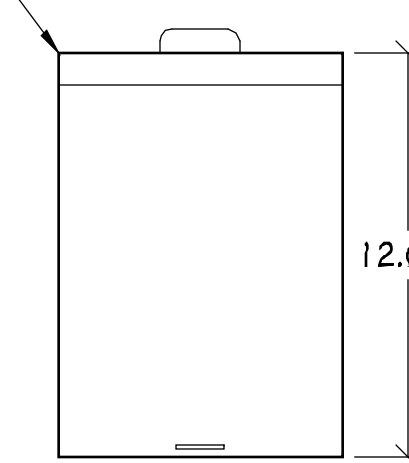
SCHNEIDER ELECTRIC
 QO612L100RB



TOP VIEW

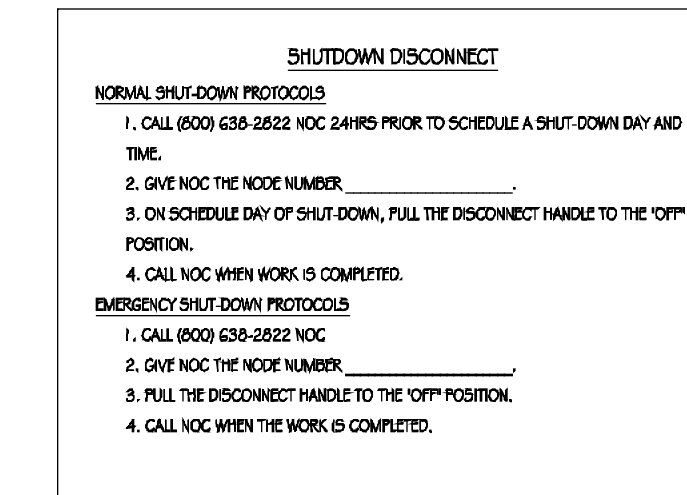
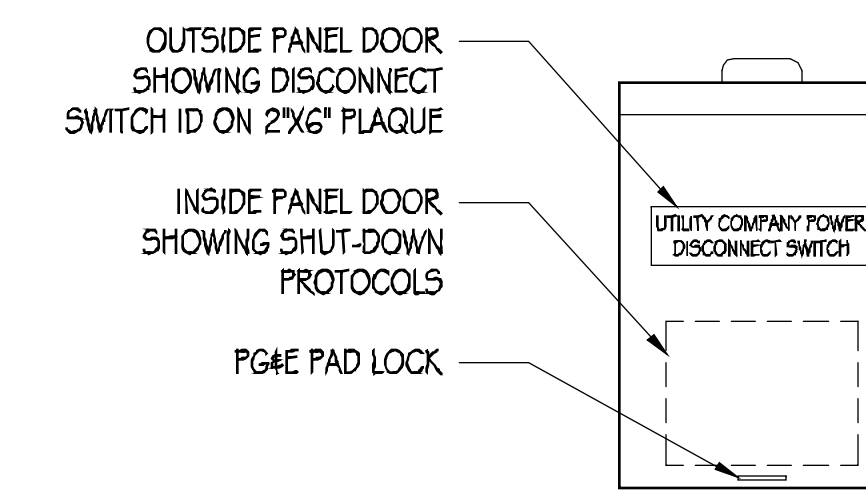


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT
 1"=6"



11 DISCONNECT SIGNAGE
 3"=1'

NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT

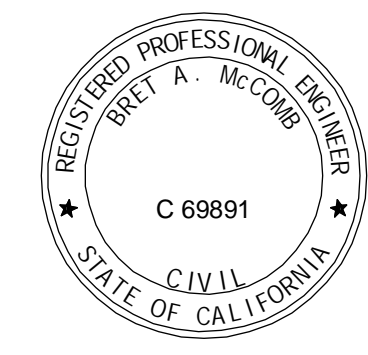


AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

PRECISION DESIGN
 Drafting, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11768 Alwood Rd, Suite 20 Auburn, CA 95603



CRAN_RSFR_LOSAO_009

491 PATRICK WY
 LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/25/19

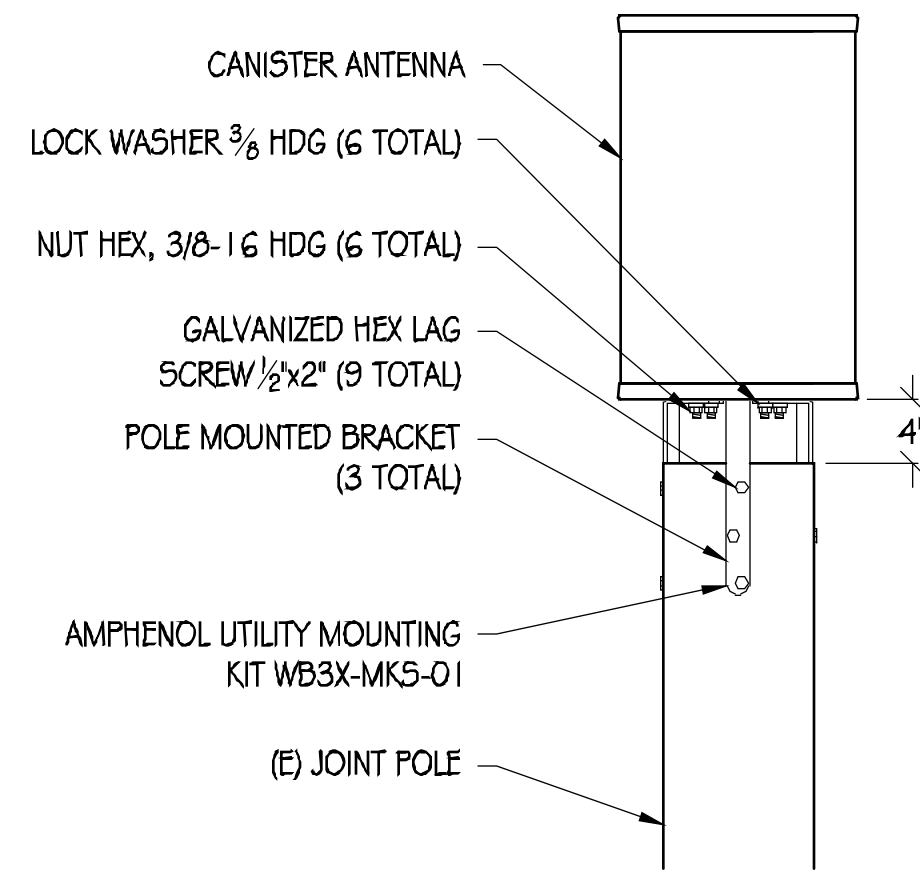
DETAILS

SHEET NUMBER

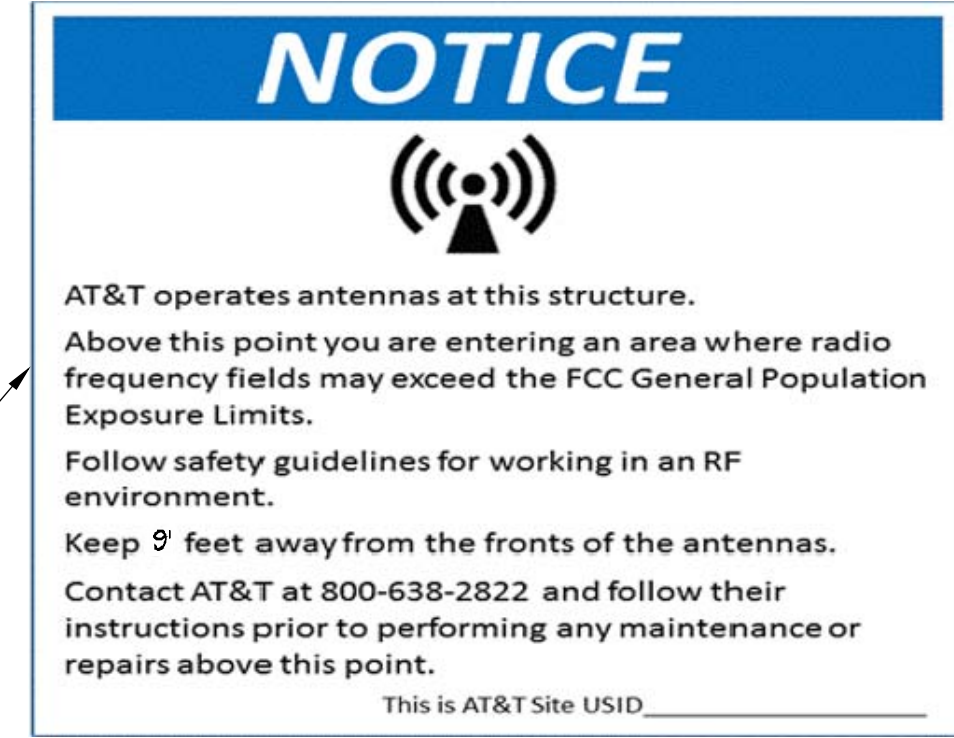
A-5

STRUCTURAL STEEL NOTES:

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) # WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS5) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A123 AFTER FABRICATION # PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED # PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.



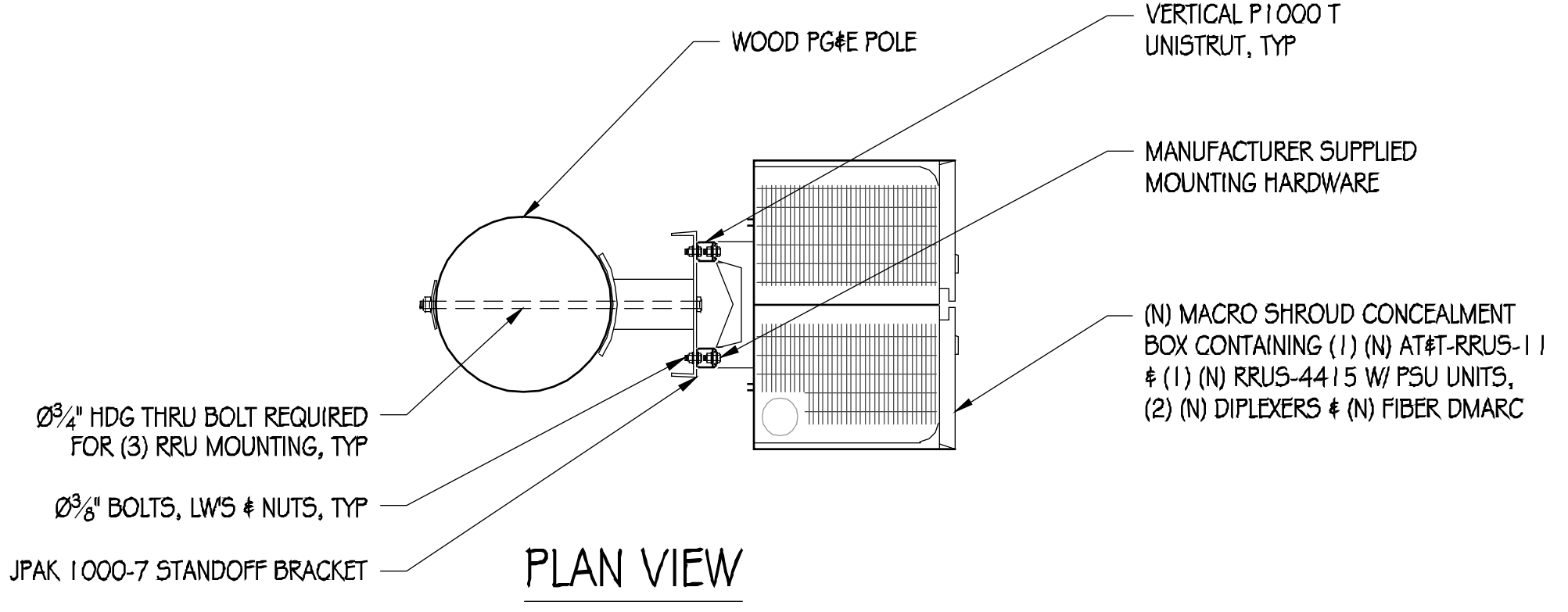
1 POLE-TOP ANTENNA MOUNT DETAIL
1" = 1'



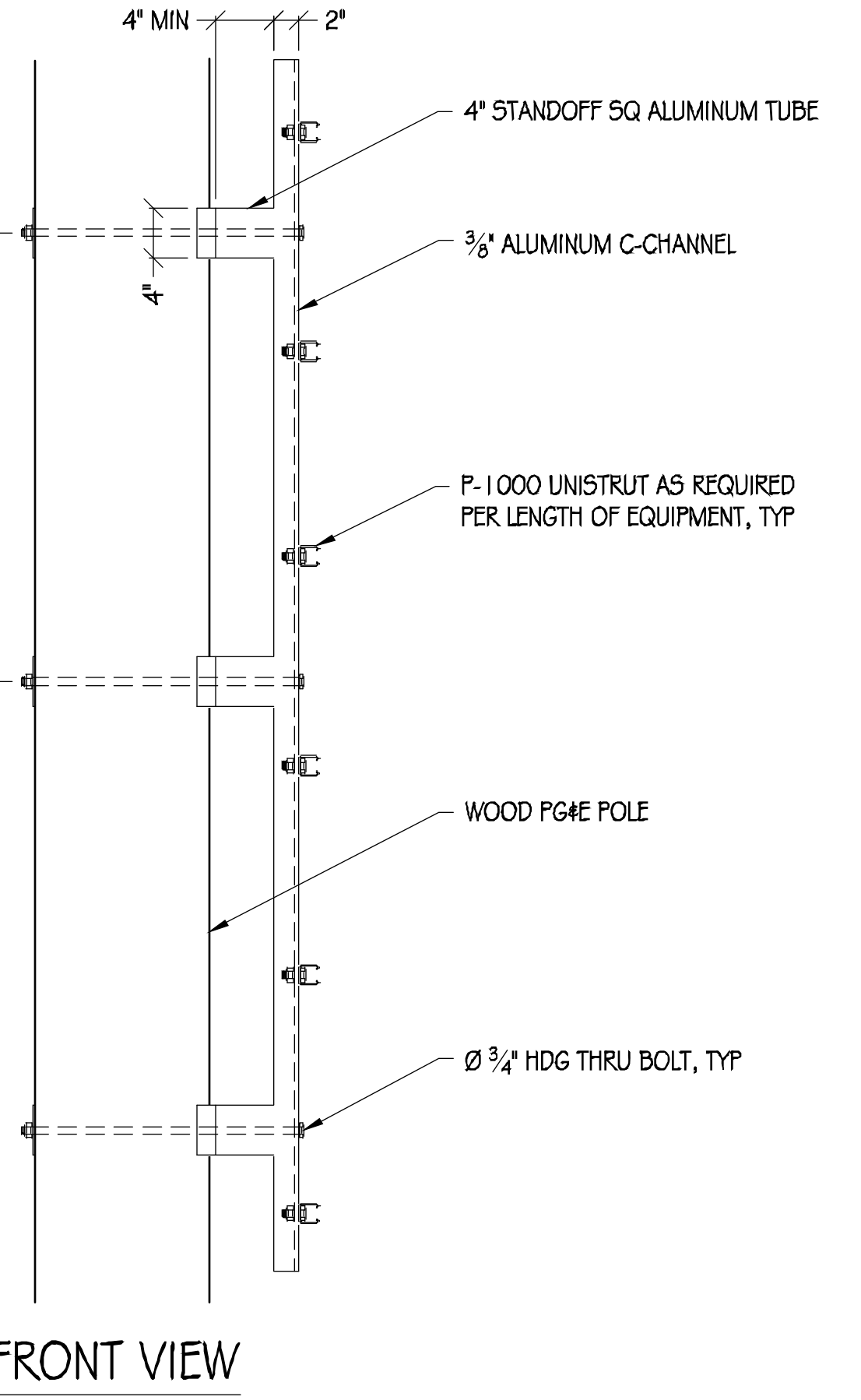
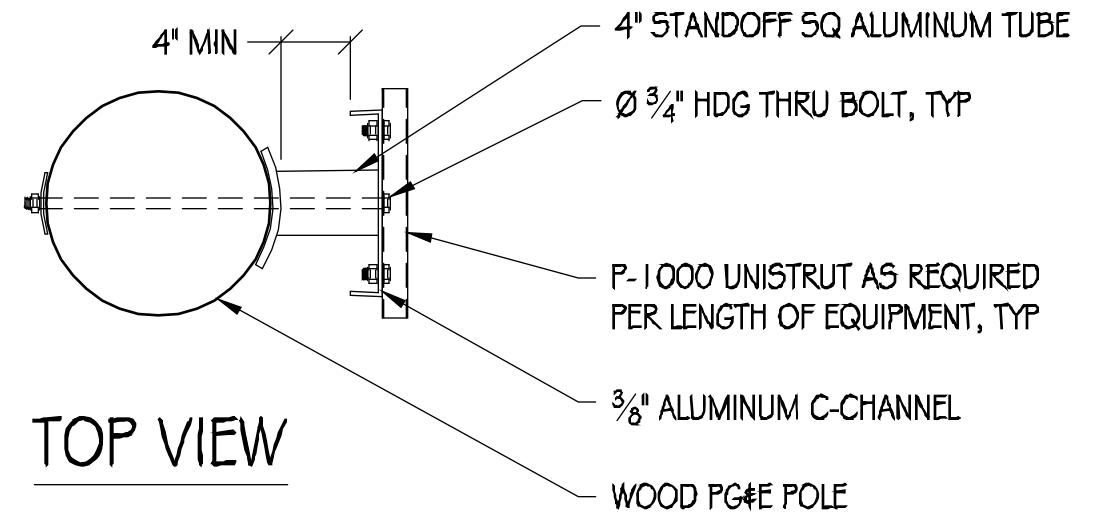
12.25" X 12.25" NOTICE DECAL BLUE DECAL

2 NOTICE SIGNAGE
NTS

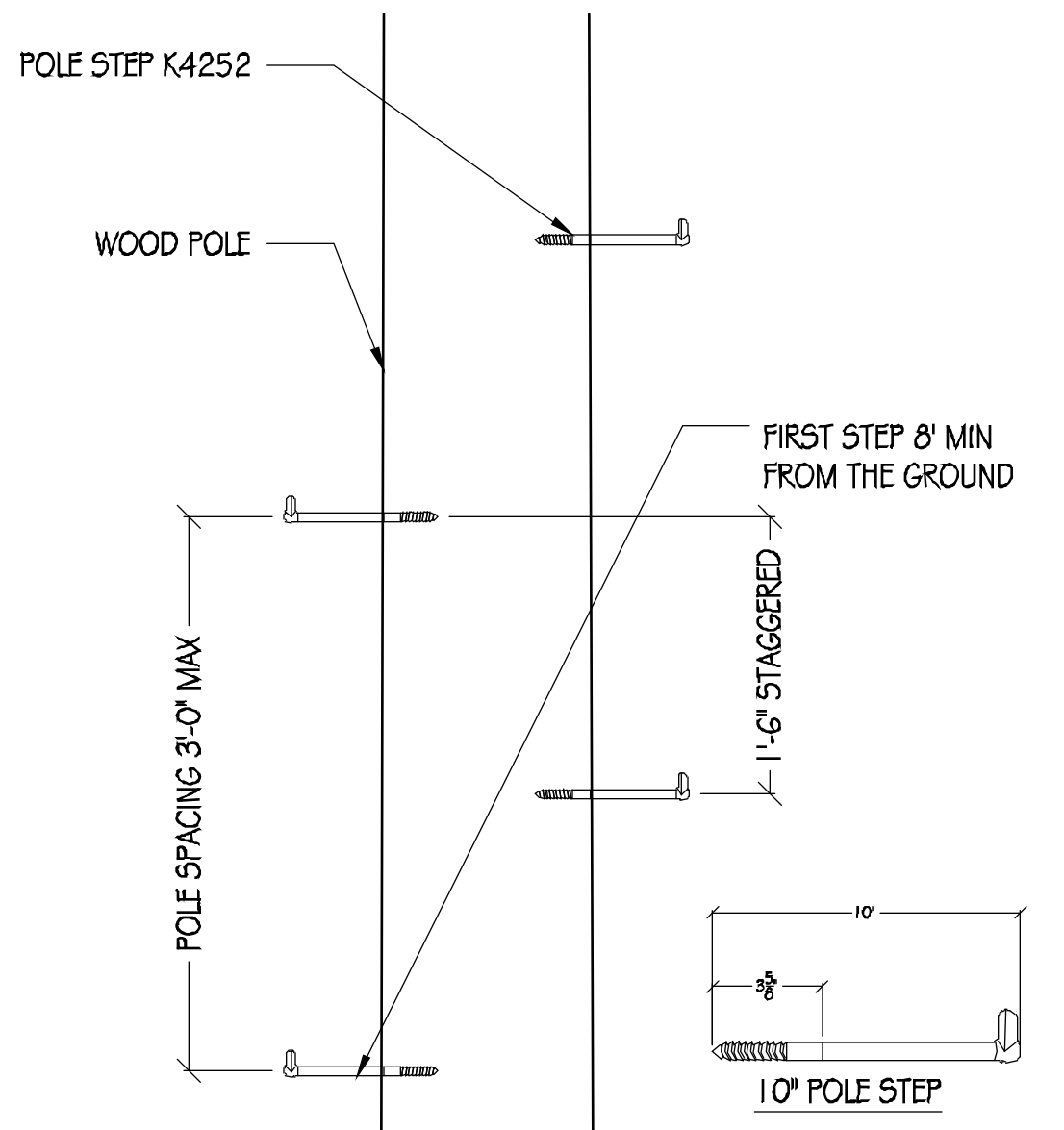
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
 - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA



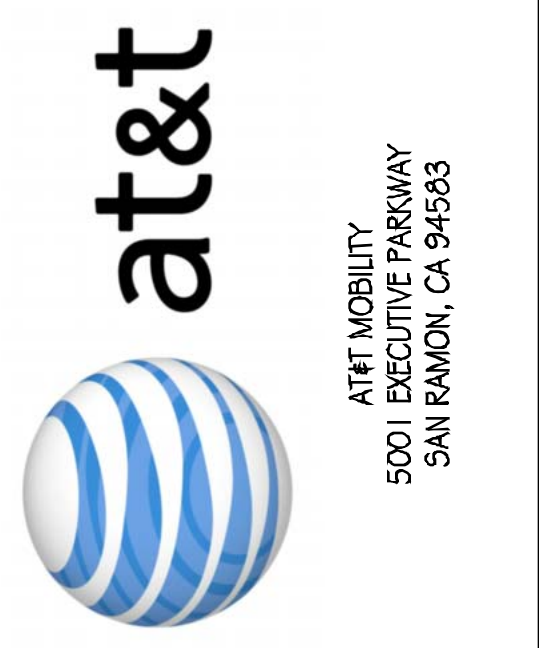
3 RRU MOUNTING DETAIL
1" = 1'



4 JPAK STANDOFF DETAIL
1" = 1'



5 POLE STEP
1" = 1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. COPYRIGHT 2011.



CRAN_RSFR_LOSAO_009

491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

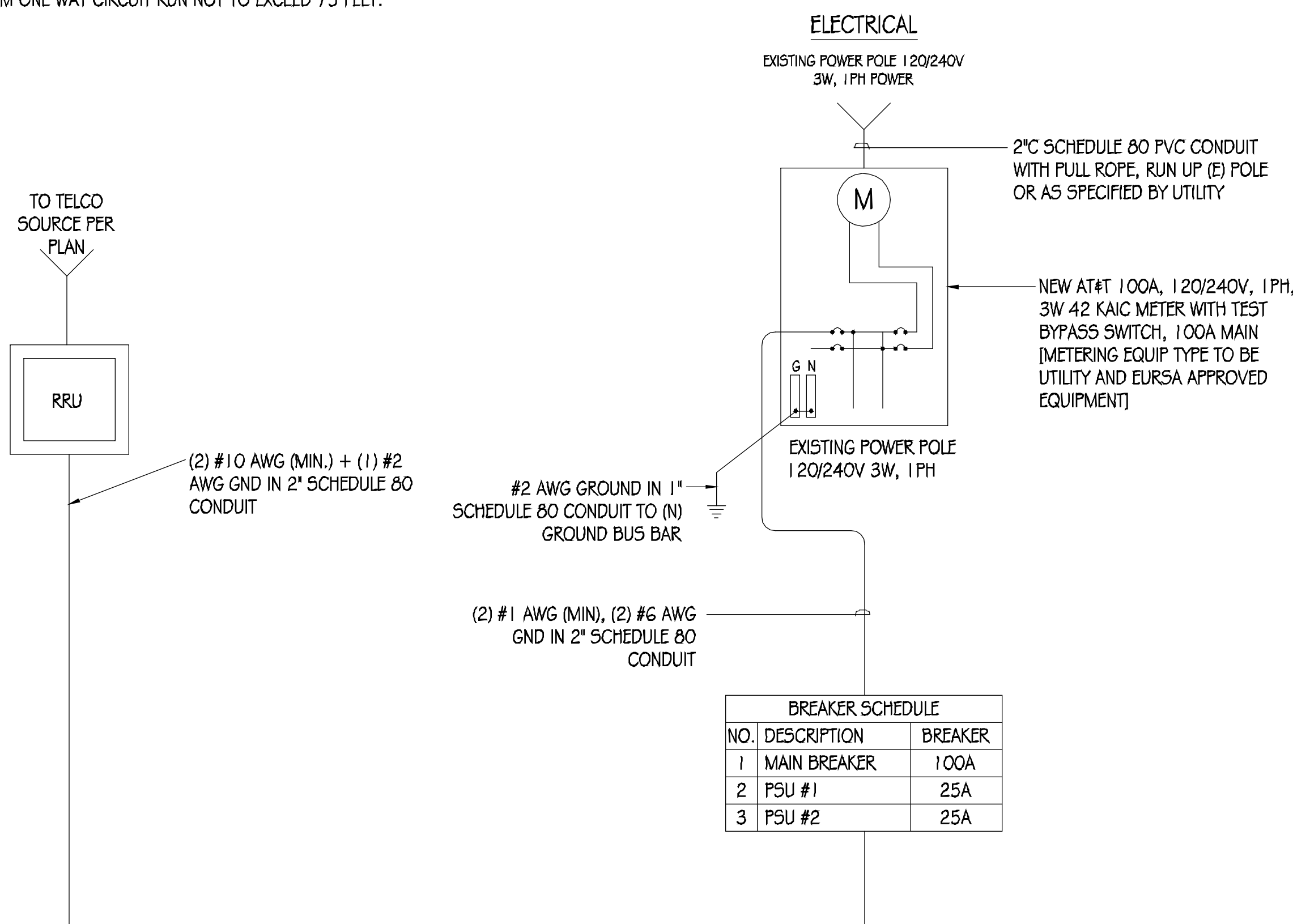
SHEET TITLE: DETAILS
SHEET NUMBER: A-6

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 RESTORED PER CITY STANDARD DETAILS.
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, SIDAUL 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.

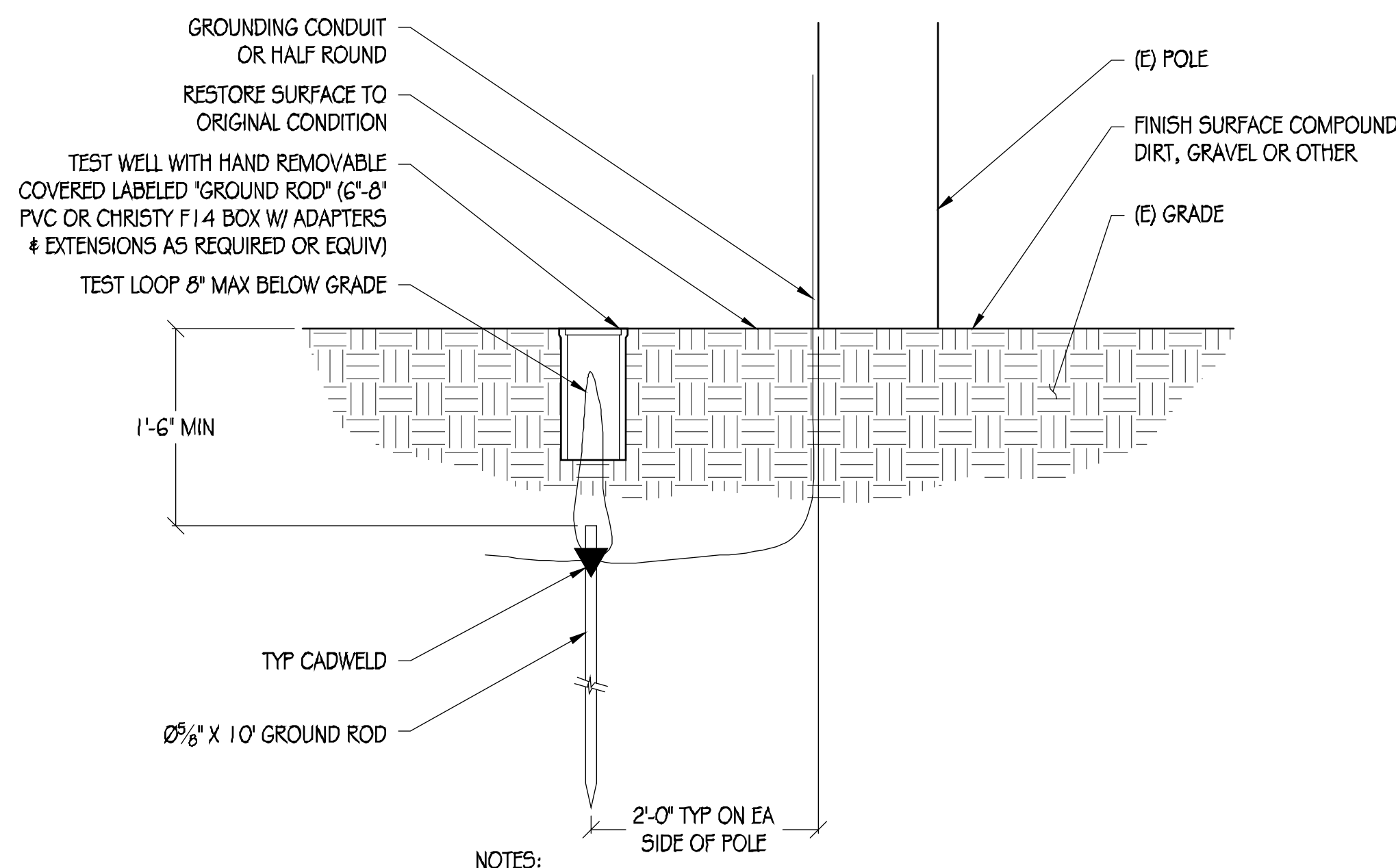
POWER AND TELCO NOTES:

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 ENCASUREMENT 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.
5. CONTRACTOR 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. CONTRACTOR 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.



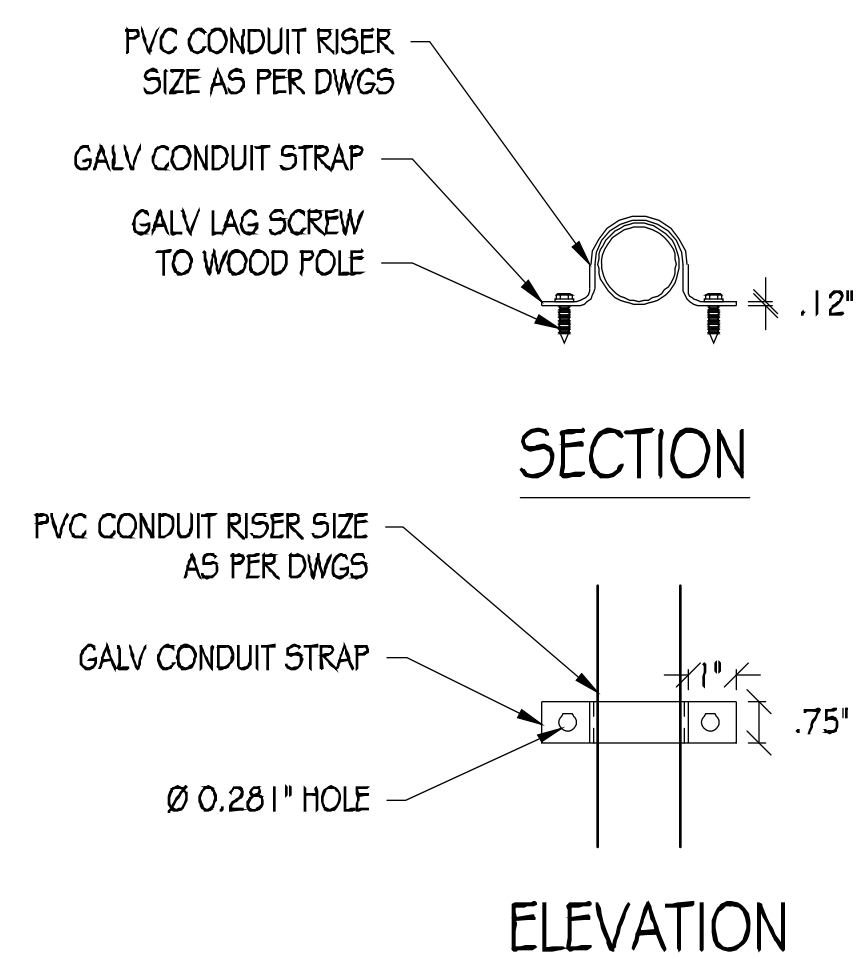
SINGLE-LINE DIAGRAM

LOAD SCHEDULE								
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TX/RX	MAX TRANSMIT POWER	W	HW
ERICSSON RRU5-4415	1	RRU5	16.5" X 13.4" X 5.9"	46 LBS	2T/2R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRU5	19.7" X 17.0" X 7.2"	55 LBS	2T/2R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 8.9" X 4.3"	40 LBS (MAX)	N/A	N/A	N/A	N/A

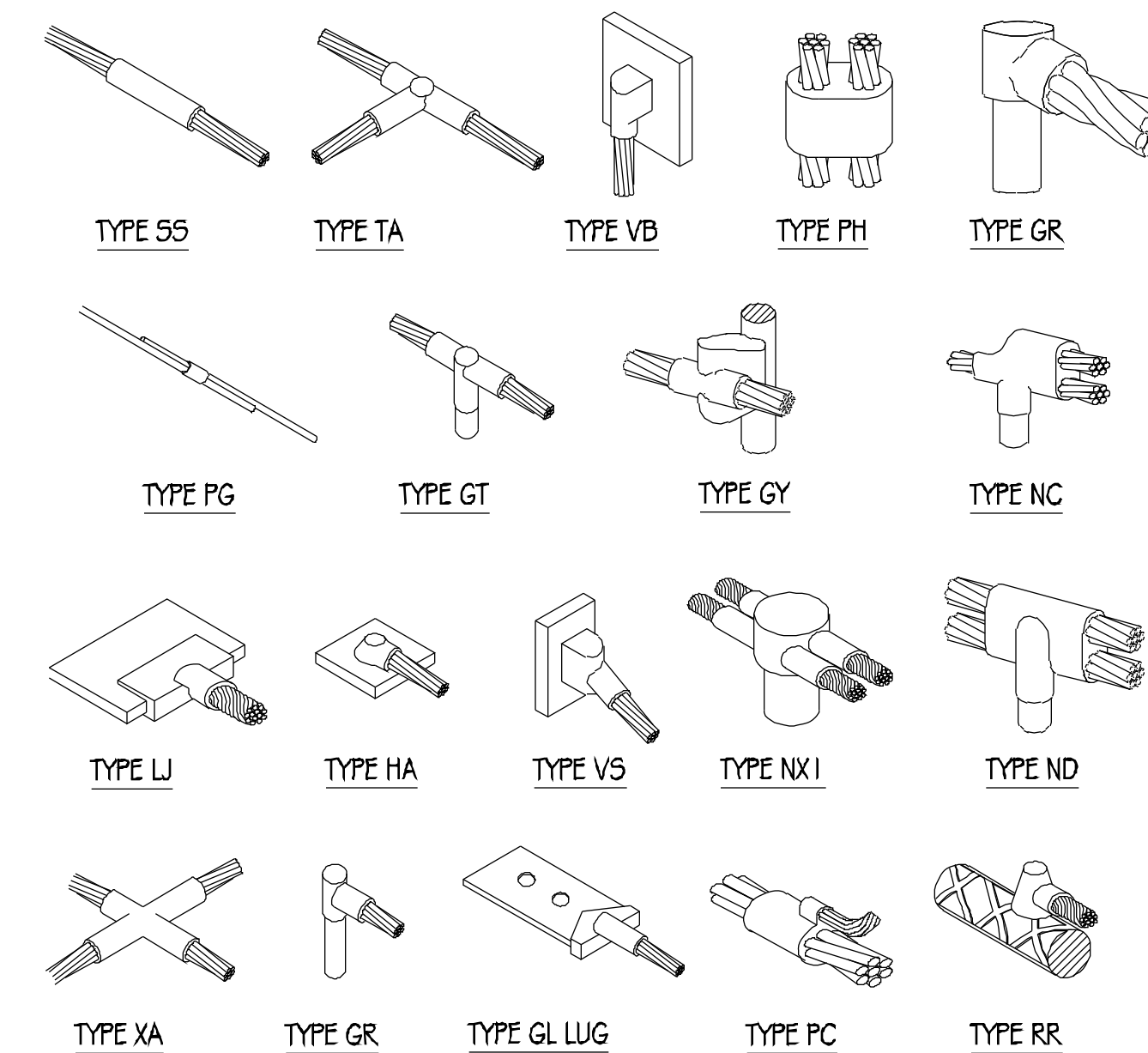


- NOTES:
1. REMOVE & REPLACE SIDEWALK SECTION, RESTORATION TO MEET CITY STANDARD DETAILS
 2. EXPOSED CONCRETE TO HAVE BROOM FINISH

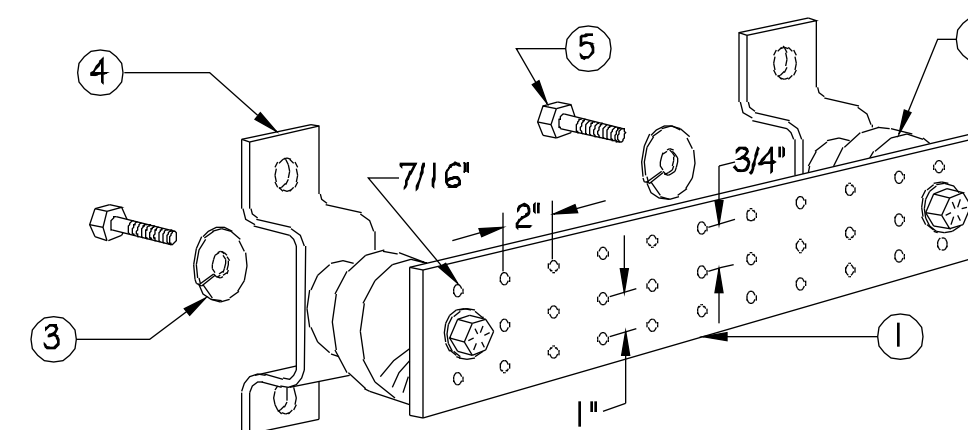
1 POLE GROUNDING DETAIL
NTS



2 CONDUIT RISER DETAIL
NTS

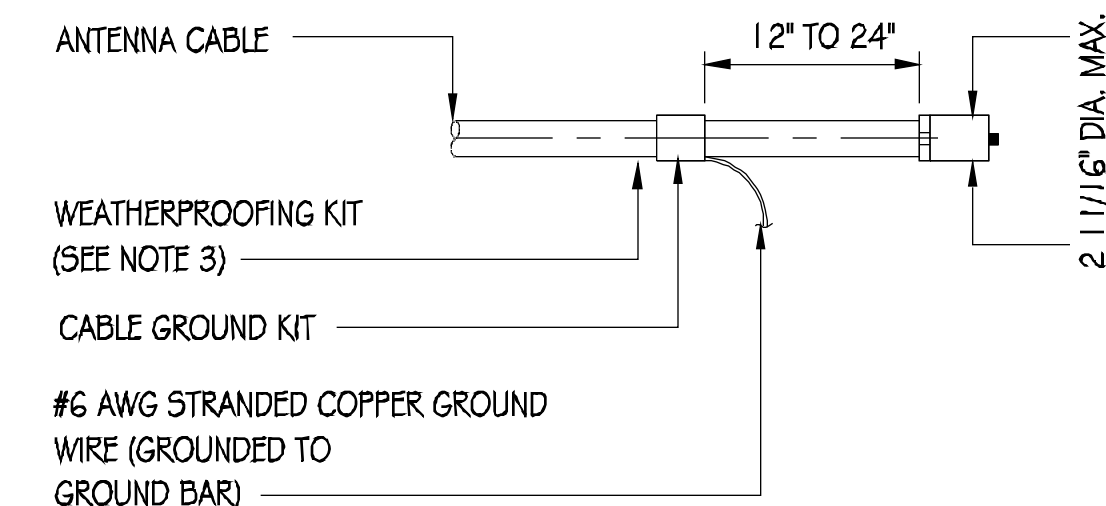


3 EXOTHERMIC WELD DETAILS
NTS



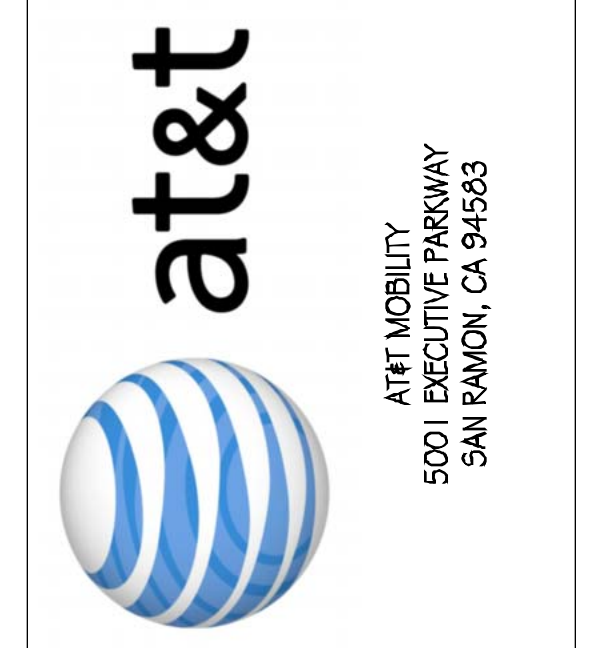
- NOTES:
1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
 2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
 3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 OR APPROVED 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.

4 GROUND BAR DETAIL
NTS



- 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.)

5 GND KIT DETAIL
NTS



PRECISION DESIGN & Drafting, INC.
 Phone: (530) 823-6546 www.pdrnd.com
 11788 Alwood Rd, Suite 20 Auburn, CA 95603

THIS PLAN AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE OUR SOLE PROPERTY AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN OUR CLIENTS WITHOUT OUR WRITTEN PERMISSION. COPYRIGHT © 2011 PRECISION DESIGN & DRAFTING, INC.



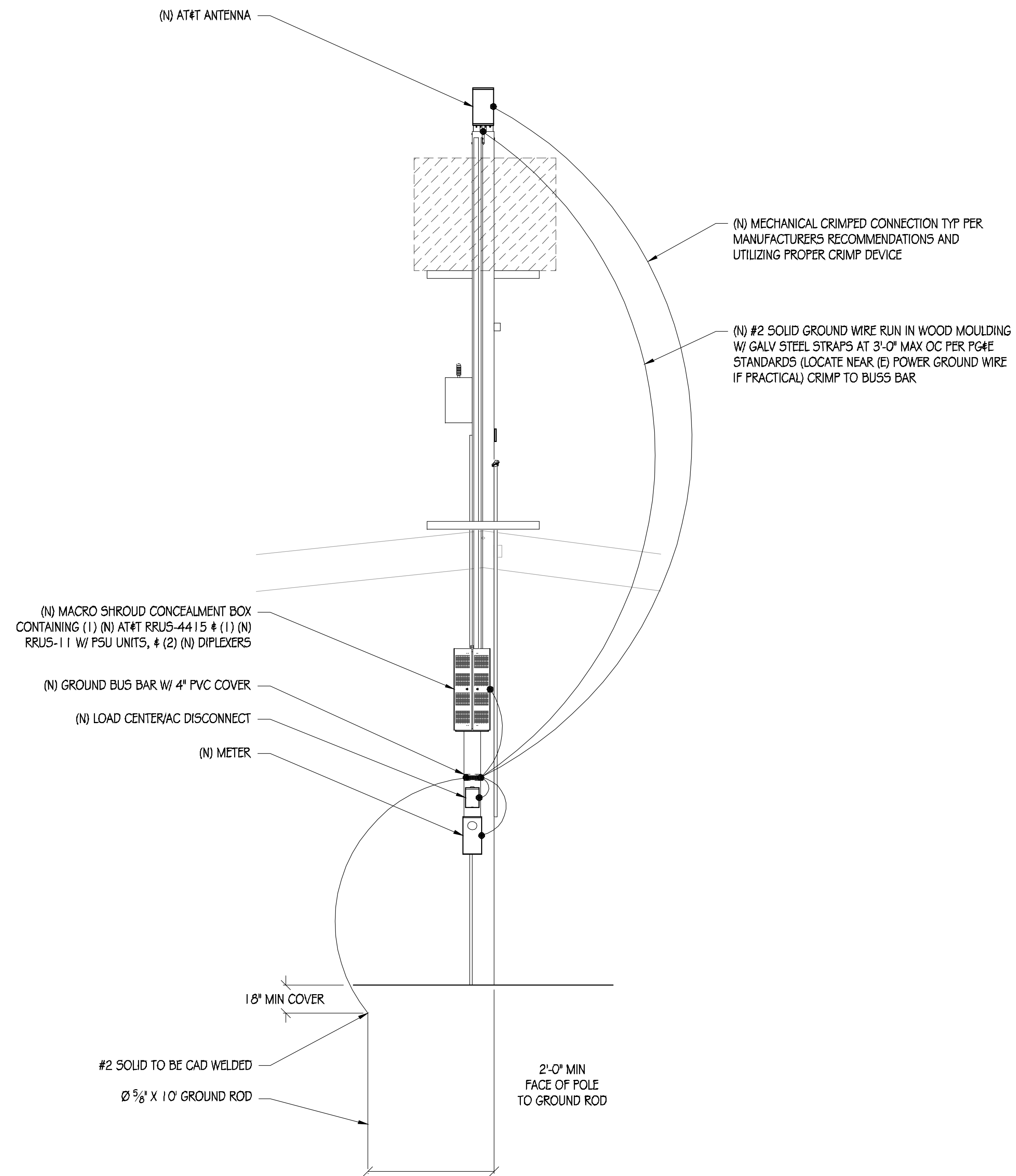
CRAN_RSFR_LO5A0_009

491 PATRICK WY
LOS ALTOS, CA 94022

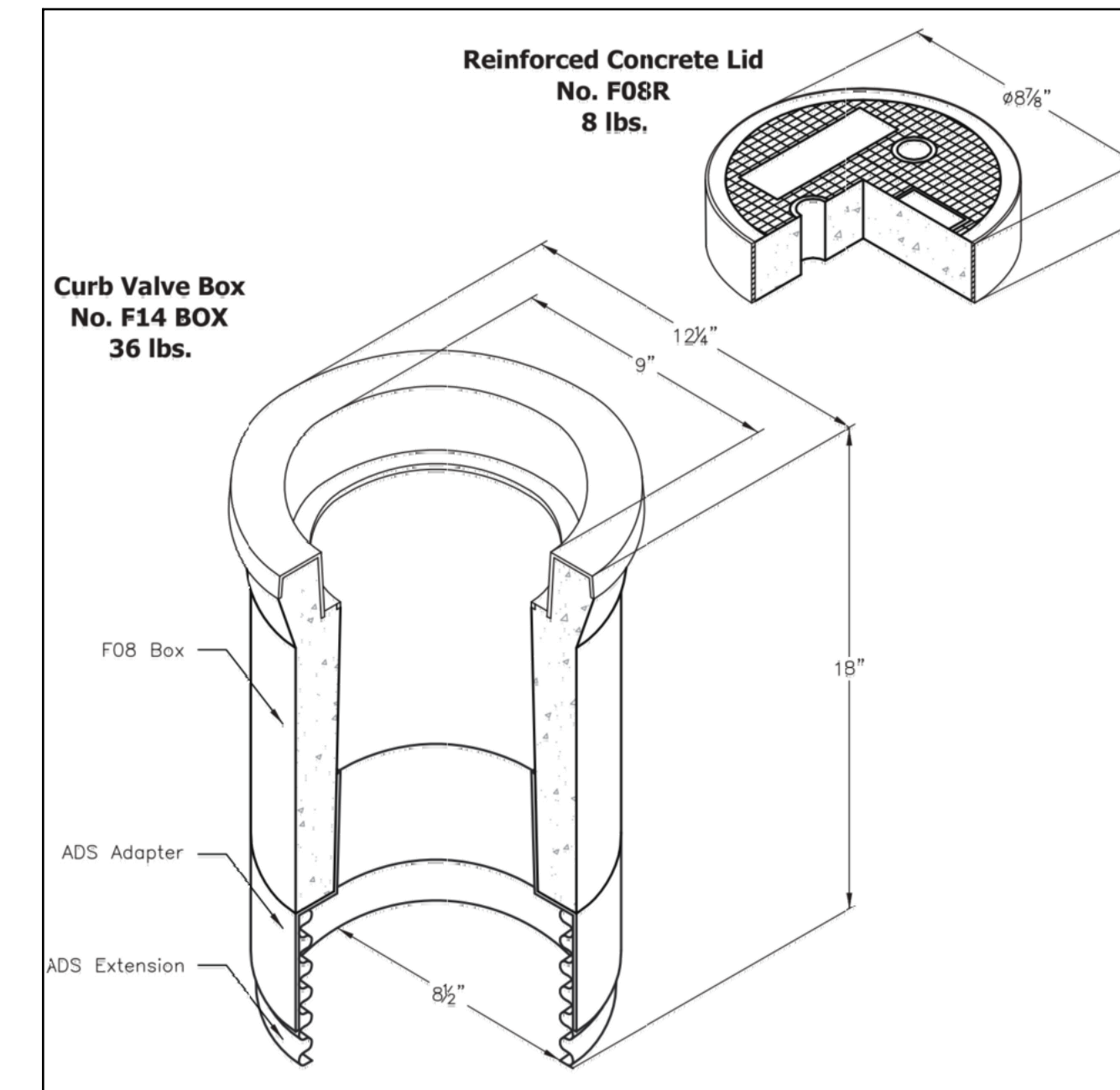
ISSUE STATUS	
△	DESCRIPTION
06/14/18	CD 90%
07/25/19	CD 100%

DRAWN BY: T.J. / B.L.
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/25/19
 SHEET TITLE:

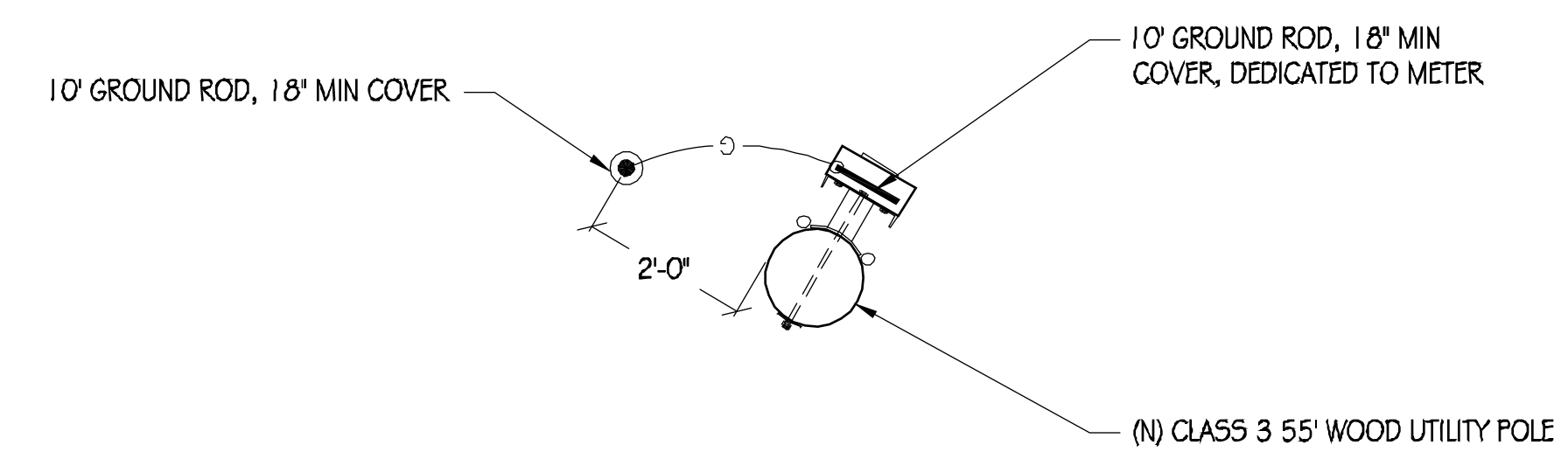
SINGLE-LINE DIAGRAM & DETAILS
 SHEET NUMBER
E-1



POLE GROUNDING DIAGRAM
NT5



TEST WELL DETAIL
NT5



GROUNDING PLAN
NT5



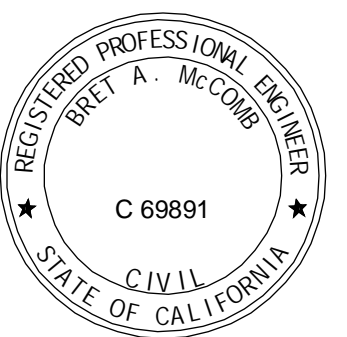
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdrnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN. VIOLATION OF THESE TERMS SHALL BE SUBJECT TO LEGAL ACTION.



CRAN_RSFR_LOSAO_009

491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

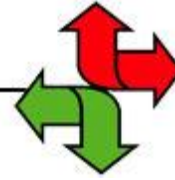
SHEET TITLE:

GROUNDING DIAGRAMS

SHEET NUMBER

E-2

Manual on Uniform Traffic Control Devices (MUTCD)



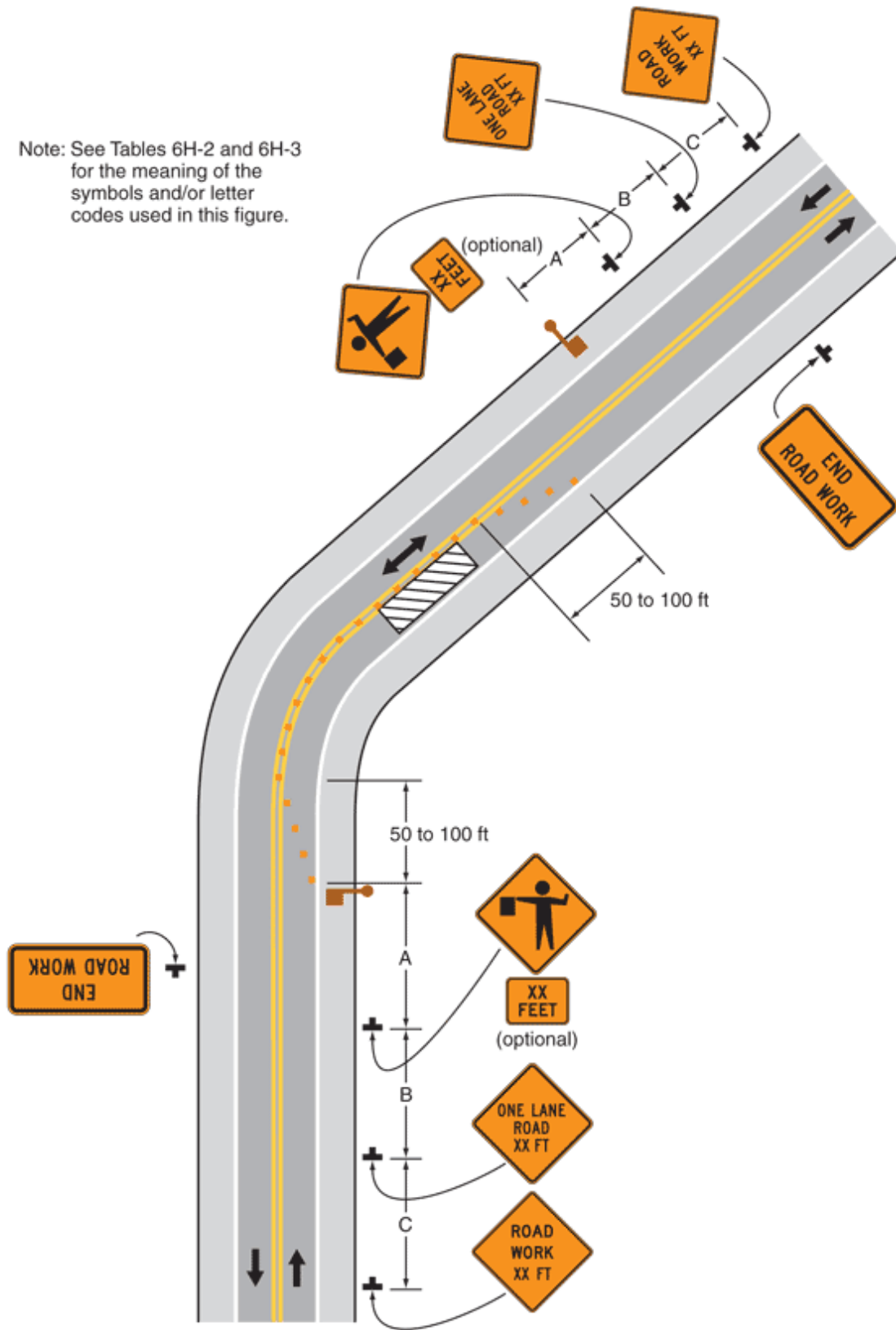
Knowledge

[Back to Chapter 6H](#)

2009 Edition Part 6 Figure 6H-10. Lane Closure on a Two-Lane Road Using Flagger (TA-10)

Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.



Typical Application 10

Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)

This figure illustrates lane closure on a two-lane road using flaggers. A legend under the figure states that this is Typical Application 10. A note states "See [Tables 6H-2](#) and [6H-3](#) for the meaning of the symbols and/or letter codes used in this figure."

A vertical two-lane roadway is shown, the top half curving to the right. Downward-pointing black arrows in the left lane and upward-pointing black arrows in the right lane denote the direction of travel. The opposing lanes are shown separated by a solid double yellow line. A shoulder is shown to the right of each direction of travel. The shoulders are shown separated from the travel lanes by a solid white line.

At the bottom of the figure and to the right of the shoulder of the right lane, a black inverted "T" is shown denoting a sign. The sign is shown as a diamond-shaped orange sign with a black border and the words "ROAD WORK XX FT" in black. This sign is shown at a dimensioned distance C in advance of another diamond-shaped orange sign with a black border to the right of the right shoulder. It shows the words "ONE LANE ROAD XX FT" in black. This sign is shown at a dimensioned distance B in advance of a sign assembly to the right of the right shoulder. This assembly is shown as composed of a diamond-shaped orange sign with a black border and a black symbol of a flagger above a horizontal rectangular orange supplemental plaque labeled optional with a black border and the distance "XX FEET" in black. This sign assembly is shown at a dimensioned distance A in advance of a red symbol for a flagger, shown on the right shoulder. Beginning where the flagger is shown and at the white line separating the shoulder from the right lane, a series of orange squares, denoting channelizing devices, are shown tapering in to the solid double yellow line separating the opposing traffic lanes. The space between the first channelizing device at the shoulder to the one shown on the solid double yellow line is shown as a dimension of 50 to 100 ft. Beyond this area, the channelizing devices continue along the solid double yellow line as the road is shown curving to the right.

Beyond the curve, the work space is shown in the right lane, represented by a vertical rectangular black and white diagonally striped box. The channelizing devices are shown continuing along the solid double yellow line to a point one device beyond the work space and then tapering back to the right shoulder for a dimensioned distance of 50 to 100 ft. Near the top of the figure, a horizontal rectangular orange sign with a black border is shown to the right of the right shoulder with the words "END ROAD WORK" in black.

At the top of the figure, to the outside of the left lane, the same three diamond-shaped orange signs are shown at the same dimensioned distances in advance of another flagger symbol in advance of the work space. Beyond the work space and roadway curve in the left lane, another End Road Work sign is shown.

[Back to Chapter 6H](#)



CITY OF LOS ALTOS
DISTRIBUTED ANTENNA SYSTEMS FOR WIRELESS COMMUNICATIONS
ENCROACHMENT PERMIT REQUIREMENTS

Distributed, repeater, or microcell antenna wireless communication systems and facilities that are regulated by the California Public Utilities Commission as a public utility and determined to be exempt from Los Altos' zoning regulations and use permit application requirements, shall be allowed in the public right-of-way subject to the following Encroachment Permit requirements:

- A. Antenna systems are encouraged along the city's arterial and collector streets. These facilities are allowed on local streets upon verification by a qualified electrical engineer licensed by the state of California representing the FCC licensee that using local streets is necessary to obtain capacity and coverage.
- B. Antenna systems are permitted on joint utility poles at a height not to exceed 10 feet above the height of joint utility pole. Replacement joint utility poles are allowed in accordance with the Municipal Code; however, no net new joint utility poles or monopole antennas are allowed in the public right-of-way.
- C. Antennae shall be designed to be as visually unobtrusive as possible, such as by housing the antenna in a single radome on top of joint utility pole, or by mounting the antenna directly on the joint utility pole in a streamline manner and painted to match the color of the utility pole.
- D. All antenna systems equipment boxes including switches, computers, cooling, back up power, etc., shall be mounted to the utility pole and both the antenna and utility equipment shall be painted to match the color of the existing utility pole.
- E. Only battery back up power systems shall be allowed. No generators shall be allowed.
- F. All new fiber optic and metal cables shall be installed underground unless there are existing overhead cables that can be collocated.
- G. Radiofrequency reports shall be provided for the facility's maximum planned operating power pursuant to the underlying FCC license.
- H. Provide a build-out plan that to the extent known at the time of application identifying by physical address (or if none, by geographic description) all other sites, regardless of whether now constructed, proposed, or anticipated, which are under contract at the time of application, subject to contractual provisions related to confidentiality, that are to be interconnected with this project site. Disclose in technical detail the proposed method of interconnection. Confidential sites may be identified generally.
- I. Disclose by licensee call sign all build-out requirements/obligations which have yet to be met of all wireless providers that the applicant is under contract to build in the City of Los Altos, and the known or estimated date when the remaining build-out requirements will be met.
- J. Identify by name, title, company affiliation, work address, telephone number and extension, and email address the key person or persons most knowledgeable regarding this Project so that the City may contact them with questions regarding the Project:

ENCROACHMENT PERMIT APPLICATION

The applicant is hereby given temporary permission to construct and maintain wireless communication systems at 491 Patrick Way, as shown on the attached drawings. This permission shall cease at such time as the City Engineer determines that said improvements or the applicant's use thereof is detrimental to the City.

The above permission is given subject to the following conditions:

1. The applicant, their heirs, executors, administrators, successors, and assigns, agree to indemnify and hold harmless the City of Los Altos, its officers, and employees against all claims, liabilities, and losses arising out of construction, existence, and future abandonment/destruction of the subject wireless communication systems and all other associated appurtenances. In addition, the applicant shall be responsible for the repair of all damage to roadways, sidewalks, curb and gutter, sewer mains and laterals, traffic signals and conduits, street lights and conduits, irrigation systems including controllers and conduits, or landscaping resulting from the construction/abandonment of the work proposed to be completed under the conditions of this permit, and shall be responsible for repairing or replacing such damaged areas.
2. Construction and destruction/abandonment of the work may be done on weekdays or Saturdays. Weekday work shall be limited to the hours of 8:00 AM and 6:00 PM., except as noted in the lane closure restrictions described in Item 3. Saturday work shall be performed during the hours of 9:00 AM and 6:00 PM.
3. Traffic control and adequate protection of the public in the vicinity of the work site shall be the responsibility of the applicant. Lane closures shall conform to the requirements established in the State of California Traffic Manual, and the State Standard Plans and Specifications.
4. The applicant shall notify the three closest adjacent property owners to the installation and the three closest property owners directly across the street from the installation at least 10 days prior to commencement of any work. In addition, the applicant shall notify the City Communications Department at (650) 948-8223 of street/alley and lane closures at least 24 hours prior to any work. Furthermore, the contractor shall notify the city's Traffic Engineer at least 48 hours in advance of any excavations within 100 feet of any traffic signals.
5. Contractor shall positively locate by hand digging all traffic signal conduit and irrigation controller conduit adjacent to traffic signals. Any damage repair to signal equipment or irrigation controller equipment shall be completed by a qualified electrical contractor immediately at the contractor's expense, and before proceeding with any other work. Traffic signal detector loop replacement shall be replaced within 48 hours of being damaged. The contractor is encouraged to use the City's signal maintenance contractor, Bear Electric, for any traffic signal repair work at the contractor's expense.
6. Asphalt concrete section for trench backfill shall be a thickness equal to the existing pavement, or 4-inches thick minimum, whichever is greater.

7. Completed Certificates of Insurance naming the City of Los Altos, its elective and appointed boards, officers, agents and employees as additional insured must be completed and submitted to the City by the owner, prior to beginning any work in the public right of way. Insurance shall remain in force during the entire time that the public right-of-way facilities are in use and shall provide the above certificate to the City on an annual basis.
8. The applicant shall comply with the National Pollutant Discharge Elimination System Permit in effect at the time of the application, and shall continue to comply with the Permit as amended by the State Water Board from time to time.
9. The applicant understands that the City continues to pursue future utility undergrounding. In the event a pole or poles used by the applicant are selected for undergrounding or relocation of mounted utilities, the applicant will be required to remove all equipment placed on the pole at his/her expense. The applicant agrees that the City is not obligated to provide alternate space for applicant's use should removal of a facility be directed to accomplish utility undergrounding.
10. The applicant shall maintain the distributed antenna system in good repair at the discretion of the City Engineer.
11. The applicant shall remove the entire distributed antenna system structures within 90 days when such system is abandoned.

I hereby agree to the terms of this Encroachment Permit:

Laura Meiners, Site Dev Agent
Name/Title

Sure Site Consulting
Company

Laura Meiners
Signature

7-30-19
Date

CERTIFIED NOTIFICATION LIST AFFIDAVIT

CITY OF LOS ALTOS
STATE OF CALIFORNIA
COUNTY OF SANTA CLARA

I, Robert Castro, hereby certify that the attached list contains the names and addresses of all persons to whom all property is assessed as they appear on the latest available assessment roll of the County within the area described on the attached notice and for a distance of two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, further certify that the attached list of occupants reflect all residential addresses within two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, certify under penalty of perjury that the foregoing is true and correct.

Robert Castro

Signature

June 21, 2019

Date the notices were mailed out

Location:

Public right of way near 491 Patrick Way

37.3897900, -122.1188600

CRAN_RSFR_LOSA0_09

1 167-27-015
SHILPA & SWARUP NIRAJ MERCHANT
530 PATRICK WAY
LOS ALTOS CA 94022

2 167-27-016
EUGENE B RICKANSRUD
520 PATRICK WAY
LOS ALTOS CA 94022

3 167-27-017
FRANCES WHEALAN
500 PATRICK WAY
LOS ALTOS CA 94022

4 167-27-018
KAI & LIU TIFFANY XU
490 PATRICK WAY
LOS ALTOS CA 94022

5 167-27-019
FREDERICK G HEROLD
470 PATRICK WAY
LOS ALTOS CA 94022

6 167-27-020
DILIP A & SUMAM S MATHEW
430 PATRICK WAY
LOS ALTOS CA 94022

7 167-27-021
ERIK E & LINDA KARRER
441 PATRICK WAY
LOS ALTOS CA 94022

8 167-27-022
WILLIAM B & MARCIA E
HERRMANNSFELDT
451 PATRICK WAY
LOS ALTOS CA 94022

9 167-27-023
JOHN A & KAREN H RHINE
461 PATRICK WAY
LOS ALTOS CA 94022

10 167-27-024
WILLIAM B & DIANE C CHOW
471 PATRICK WAY
LOS ALTOS CA 94022

11 167-27-025
YI-BEN & CHU-JEN HSU TSAI
481 PATRICK WAY
LOS ALTOS CA 94022

12 167-27-026
PARTHIV R & MISTI M SANGANI
491 PATRICK WAY
LOS ALTOS CA 94022

13 167-27-027
PRESTON ALBERT BAECKER
501 PATRICK WAY
LOS ALTOS CA 94022

14 167-27-028
DAMIAN P LAWLOR
521 PATRICK WAY
LOS ALTOS CA 94022

15 167-27-029
CHIA HUNG & WU DALI YANG
12900 SARATOGA AVE
SARATOGA CA 95070

15 167-27-029
OCCUPANT
531 PATRICK WAY
LOS ALTOS CA 94022

16 167-27-044
STEPHEN M BERKLEY
500 CHERRY AVE
LOS ALTOS CA 94022

17 167-27-045
ANIL P & LAURIE J GADRE
496 CHERRY AVE
LOS ALTOS CA 94022

18 167-27-047
JACK L & SANDERS KELLY LO
470 CHERRY AVE
LOS ALTOS CA 94022

19 167-27-048
GUNNAR PREBEN GALSGAARD
471 CHERRY AVE
LOS ALTOS CA 94022

19 167-27-048
OCCUPANT
464 CHERRY AVE
LOS ALTOS CA 94022

20 167-27-049
IN SIK RHEE
448 CHERRY AVE
LOS ALTOS CA 94022

21 167-27-050
ROBERT A OLSON
440 CHERRY AVE
LOS ALTOS CA 94022

22 167-27-054
FRANK C & HYL A CAMERON
490 CHERRY AVE
LOS ALTOS CA 94022

23 167-27-055
BING CUI
484 CHERRY AVE
LOS ALTOS CA 94022

24 167-27-064
DAVID & LEE JIEUN KIM
424 PATRICK WAY
LOS ALTOS CA 94022

25 167-27-069
JOHN CLIFFORD
P.O. BOX 610156
SAN JOSE CA 95161

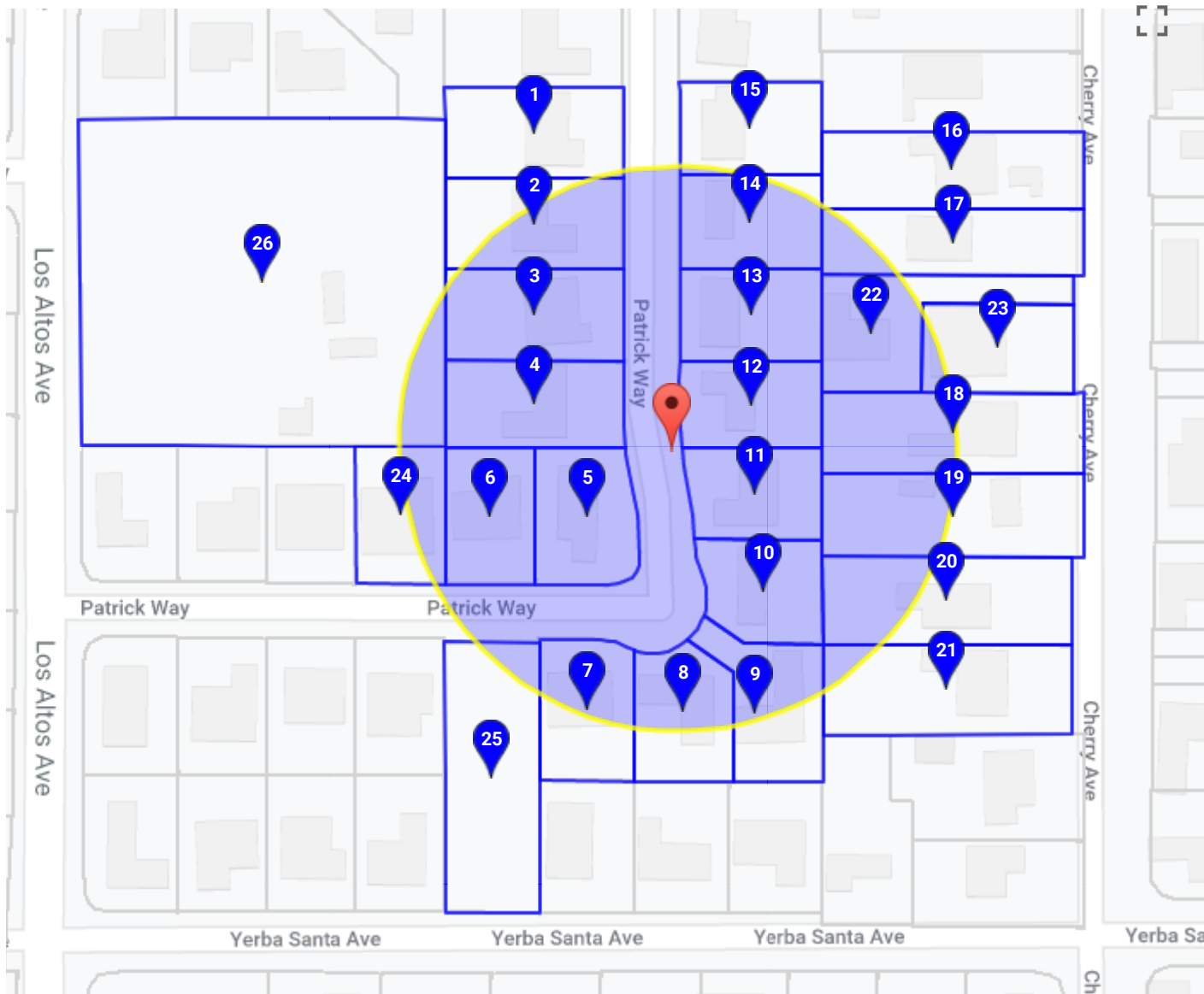
25 167-27-069
OCCUPANT
235 YERBA SANTA AVE
LOS ALTOS CA 94022

26 167-27-070
DUANE E CLIFFORD
250 PINE LN
LOS ALTOS CA 94022

IVAN TOEWS
SURESITE CONSULTING
2033 GATEWAY PL 6TH FLR
SAN JOSE CA 95110

CHRIS ELDRIDGE
ERICSSON
6140 STONERIDGE MALL ROAD SUITE 350
PLEASANTON CA 94588

CHRIS KERR
AT&T MOBILITY
5001 EXECUTIVE PARKWAY 4W750EE
SAN RAMON CA 94568





AT&T is working to improve wireless service in City of Los Altos!

June 10, 2019

Dear Neighbor,

AT&T Mobility proposes to install a state-of-the-art wireless communication small cell node facility on existing wood utility pole located in the City of Los Altos public right-of-way near 491 PATRICK WAY. The equipment to be initially installed includes one (1) antenna, two (2) radio units, and one (1) emergency power shut off. This equipment is designed to increase capacity in high demand areas and should increase wireless connection reliability for AT&T customers. See attached schematic for more information about the placement and size of equipment currently proposed to be installed. All equipment will be painted to match the pole.

This proposed small cell node is part of a greater network that will provide and enhance current cutting edge and future AT&T wireless voice and data service to the surrounding area, improving wireless capabilities and public safety connectivity. Although experiences with wireless services vary based on specific location and usage times, the wireless service proposed by this facility will help meet existing, fluctuating and future demands.

Map of Pole Location

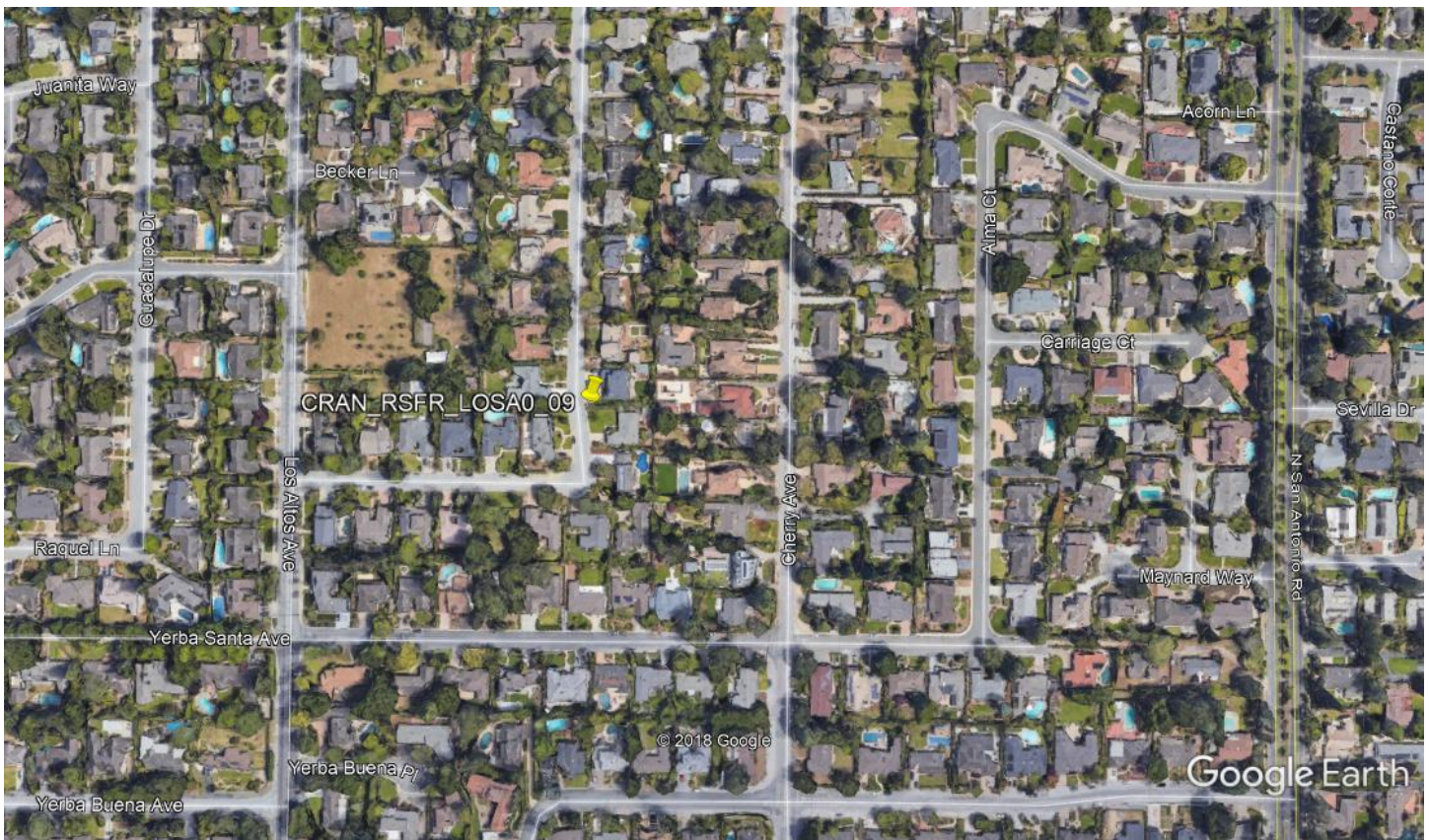




Photo of Existing Pole



Want to learn more?

Please contact AT&T's small cell project voice mailbox at 949-247-8686 or email escsd@sure-site.com should you have any comments or questions about the proposal.

Thank you.

Sincerely,

Angela Kung
AT&T Director - External Affairs



CRAN_RSFR_LOSAO_09

491 PATRICK WAY LOS ALTOS CA 94022



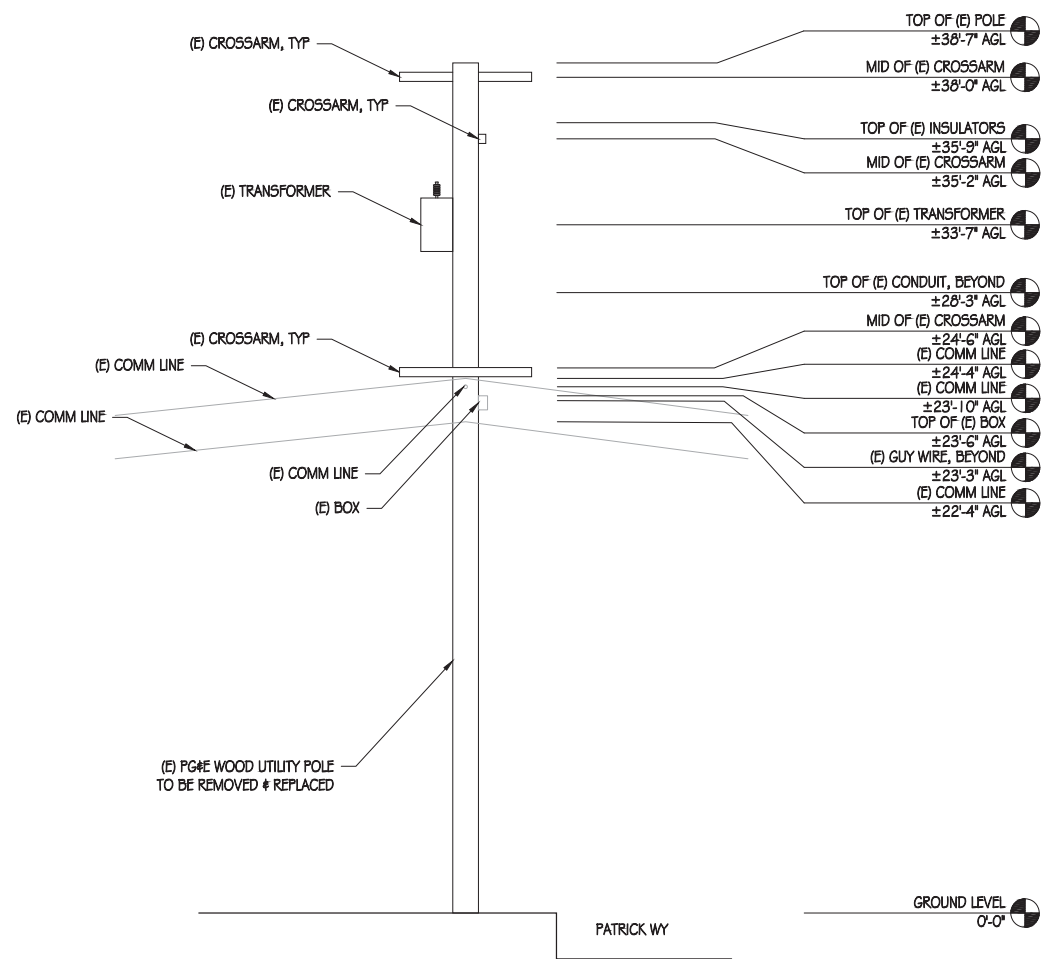
VIEW 1



EXISTING

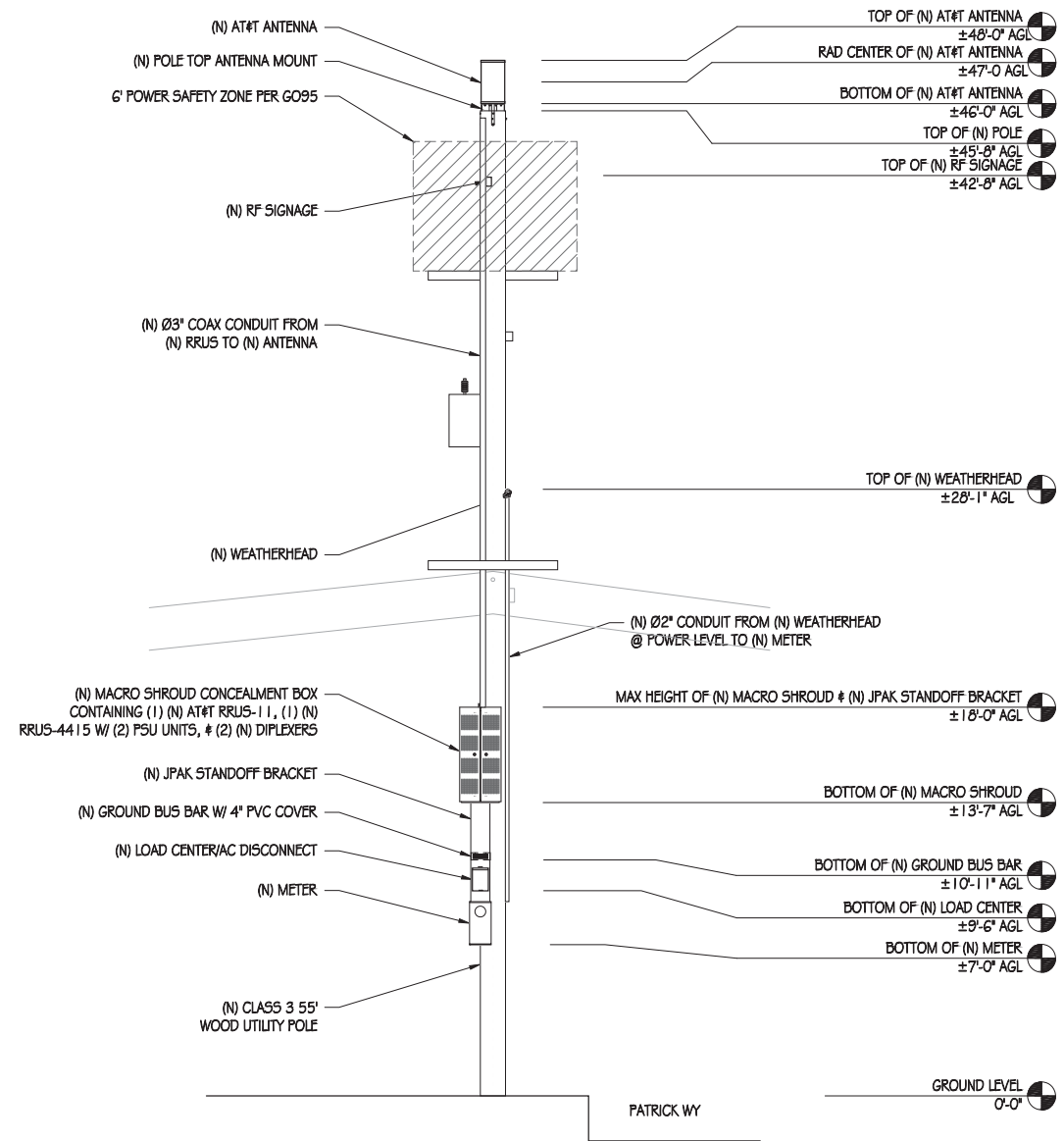


PROPOSED LOOKING NORTH ALONG PATRICK WAY



EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

1/4" = 1'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdind.com
11708 Alwood Rd., Suite 20 Auburn, CA 96803

THIS PLAN AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. AND SHALL BE RETURNED TO THE OFFICE OF PRECISION DESIGN & DRAFTING, INC. UPON COMPLETION OF THE PROJECT. NO PART OF THIS PLAN OR SPECIFICATIONS MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE ENGINEER, DESIGNER, OR ARCHITECT. LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY PRECISION DESIGN & DRAFTING, INC.



CRAN_RSFR_LOSAO_009

ROW ADJCT TO 491 PATRICK WY
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/14/18	CD 90%
	02/19/19	CD 100%

DRAWN BY: IB / BL

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 02/19/19

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

A-4