

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-____

<u>APPLICATION</u>						
(To be completed by	the applicant with a copy of	<u>f detailed plar</u>	/drawing show	ing the prop	oosed work):	
LOCATION OF W	ORK: 33 Pine Ln					
TYPE OF WORK:	Install equipment on exis	ting utility pole)			
CONTRACTOR:	Ericsson, Delbert Butcher		P	HONE#	720-317-7282	
OWNER:	PG&E, Jwo Cheng		P	HONE #	650-515-9842	
	Mobility (New Cingular Wireless PCS), oews, SureSite Consulting, Agent		P	HONE #	949-278-2962	
SPECIAL REQUIRE	EMENTS (TO BE COMPL	ETED BY T	HE CITY):			
=	nit evidence of insurance cov			requiremen	nts set forth in this	
2	hout limitation, the General	-			_	
	ity of Los Altos approves thi		ect to the "Gene	eral Require	ements" listed on the)
	the following indicated cor		0.45 0500 . 1			
	y of Los Altos Engineering Di					g
	owntown area or on collector st 1 business day notice prior					. 1
	orior by contacting City of Los			occion snai	be selleduled at least	_
	permit must be at job site for			e City when	requested or work ma	υy
be terminated	by the City until compliance	with this requi	rement is met.	•	-	•
	shall notify the Los Altos Pol					ra
	3) 378-4010 at least 3 business					
	onstruct Driveway/Walkway ap curb (cold joint).	pproach to the	back of the existin	ig rolled curl	o, without tying	
All work done	in the City ROW shall comply	with the City's	Shoulder Paving	Policy.		
	l provide adequate drainage wi subbase is required) and confo			of 4" AB plus	2" AC or 4" AC	
	l be required to saw cut along t			severe dam	aged edge.	
New sidewalk	or curb shall be constructed po	er City Standard	ls and connected	to existing s	idewalk or curb with #	4,
	ls @ 12"o.c. All saw cuts to be	done at existin	g joints.			
Comments: _						
Applicant has read ar SIGNATURE O	nd understands all the condi	itions; and agi		nditions of TE:	this permit.	
ISSUED BY:	TATILICANI.			TE:		
1550ED D1		SIGNAT				
INSPECTED BY	7.		SPECTION DA	TE.		
	••		01201101121			
ATTACHMENT:		640 6.00	CREDIT	CHECK	CASH	
YES		<u>\$196.00</u>		OTTLOK	<u> </u>	
□NO					Provide Check # or ty of credit (VS, MC, or and last 4 digits	
Distribution:	Original – Inspector	Copies: A	pplicant and Fir	nance		

1 11

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

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.



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TEMPORARY LANE CLOSURE PERMIT LC19-__

APPLICATION					
(To be completed by	the applicant with a co	opy of detailed drawi	ing showing	the propose	d location(s)):
	_				
	3 Pine Ln				
TYPE OF WORK:	<u>'</u>	on existing utility p	ole		
DATE(S) REQUE	STED: <u>3/21/2019</u>				
CONTRACTOR:	Ericsson, Delbert	Butcher		PHONE #	720-317-7282
OWNER:F	PG&E, Jwo Cheng			PHONE #	650-515-9842
	&T Mobility (New Cingular Wire in Toews, SureSite Consulting, A			PHONE #	949-278-2962
SPECIAL REQUIR	EMENTS (TO BE CO	MPLETED BY TH	E CITY):		
Applicant must subripermit including, withis permit. The City back of this page and Notify the Cobeginning a way in other shall be school A copy of the work may book The application Santa Clara Comments:	mit evidence of insurand thout limitation, the Ge of Los Altos approves d the following indicate City of Los Altos Engin ny work in Downtown ar areas requires at least	ce coverage meeting eneral Requirements this request subject to conditions: eering Division at (carea or on collector 1 business day notices day prior by control business day prior by control to site for authorized ty until compliance Altos Police Departs 10 at least 3 business	the minimum and exhibits to the "Gene 650) 947-2786 and arterial ce prior to be tacting City of representate with this request to the first term of the firs	attached he ral Requirer O at least 2 he roads. Worleginning of of Los Altostive of the Cuirement is 947-2770 at to any lane	ereto prior to issuance of ments" listed on the pusiness days prior to k in the public right of work. Final inspection a Engineering Division. But when requested or met. In the public right of met. In the public right of road closure.
SIGNATURE OF	APPLICANT:		DA	ГE:	
ISSUED BY:			DA'	 ГЕ:	
		SIGNATURE			
INSPECTED BY:				TE:	
		E (includes the first additional days at \$6 TOTA		505.00 - 505.00	
ATTACHMENT:					
NO Traffic Co	ntrol Plan		CREDIT	CHECK	CASH Provide Check # or type of credit (VS, MC, or D) and last 4 digits
Distribution:	Original – Inspec	ctor Copies : Ap	plicant, Polic	e Departme	ent, and Finance

PERMIT VALID FOR DAYSSee other side for General Requirements

GENERAL REQUIREMENTS FOR ALL JOBS

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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_04 Site Structure Type: Utility Pole Address: 33 Pine Lane Latitude: 37.39226

Los Altos, California Longitude: -122.11507
Report Date: October 26, 2018 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_04 site located at 33 Pine Lane, 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.

	Limits for General Populat	ion/ Uncontrolled Exposure	Limits for Occupational/	Controlled Exposure
Frequency (MHz)	Power Density (mW/cm²)	Averaging Time (minutes)	Power Density (mW/cm²)	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 35.8-foot Utility Pole with a centerline 44.1 feet above ground level. The antenna is quasi-omni directional 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-omni directional 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 0.4450% 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 0.5695% 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 39 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

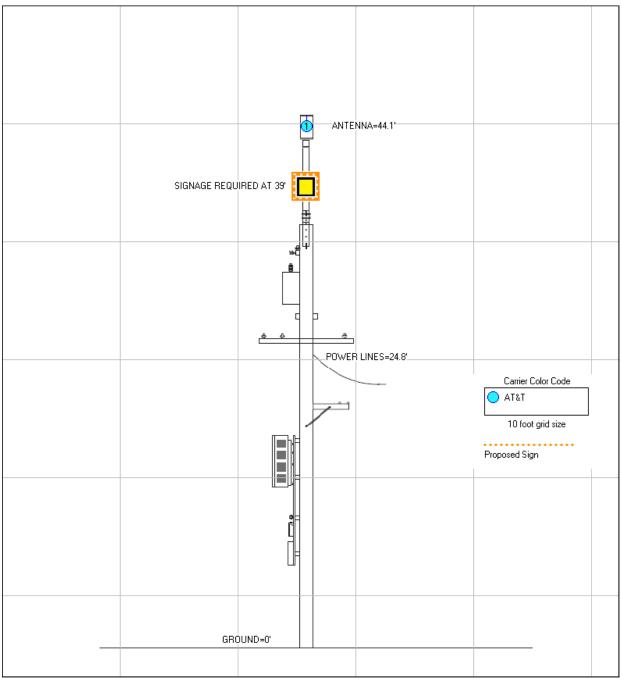


Figure 2: Mitigation Recommendations

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 33 Pine Lane, 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_004

We have analyzed the wood pole at ROW adjacent to 33 Pine Lane, Los Altos, CA, 94022 (37.392256, -122.115053) 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 57.2% capacity and may be **considered adequate to support the proposed loads.**

Please contact me if you have any questions.

Sincerely,

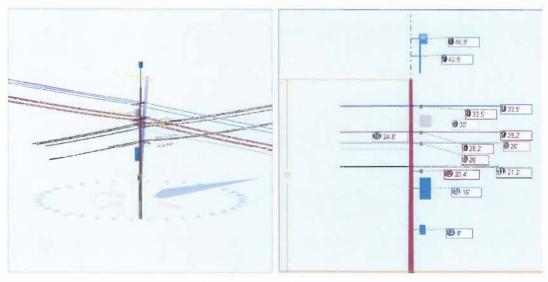
Bret McComb, P.E.



Attachments:

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

Pole Num:	CRAN_RSFR_LOSA0_04	Pole Length / Class:	45 / 4	Code:	GO 95	Structure Type:	Junction
Aux Data 1	Unset	Species:	DOUGLAS FIR	NESC Rule:	-	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.00	Construction Grade:	В	Pole Strength Fa	octor: 0.50
Aux Data 3	Unset	G/L Circumference (in):	35.00	Loading District:	Light	Transverse Wind	I 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):	3,894	Wind Speed (mph):	55.90	Vertical LF:	1.00
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	8.00		
Latitude:		37.392256 Deg Lor	ngitude:		-122.115053 Deg	Elevation:	116.3 Feet



Pole Capacity Utiliza	tion (%)	Height	Wind Angle
Crossarm allowance		(ft)	(deg)
Maximum	57.2	0.0	0.0
Groundline	57.2	0.0	0.0
Vertical	2.7	24.3	270.0

Pole Moments (ft-lb) Crossarm allowance		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	24,914	2.9	0.0
Groundline	24,914	2.9	0.0
GL Allowable	44,052		

Guy System Component Summary	7			Load From Angle o		Individual Ma	ximum Load
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
► Anchor	171.0	90.0		5.0	0.0	10.1	270.0
EHS 3/8 (Span/Head)			24.8	6.5	0.0	13.1	270.0
		System Capac	ity Summary:	Adeq	uate	Adeq	luate

	Shear	Applied	Bending	Applied	Pole	Bending	Vertical	Vertical	Total	Pole
	Load* (lbs)	Load (%)	Moment (ft-lb)	Moment (%)	Capacity (%)	Stress (+/- psi)	Load (lbs)	Stress (psi)	Stress (psi)	Capacity (%)
Powers	395	41.9	11,967	48.0	27.2	1,028	130	_	1,029	26.4
Comms	0	0.0	90	0.4	0.2	∞	232	2	10	0.3
GuyBraces	59	6.3	1,509	6.1	3.4	130	23	0	130	ယ
GenericEquipments	120	12.8	2,857	11.5	6.5	245	213	2	248	6.4
PowerEquipments	40	4.2	1,184	4.8	2.7	102	640	7	108	2.
Pole	231	24.5	4,617	18.5	10.5	397	1,035	1	407	10.5
Crossarms	57	6.0	1,522	6.1	ა. 5	131	219	2	133	3.4
Insulators	40	4.3	1,168	4.7	2.7	100	133	_	102	2.6
Pole Load	944	100.0	24,914	100.0	56.6	2,140	2,626	27	2,167	55.6
Pole Reserve Capacity			19,138		43.4	1,754			1,727	44.4

55.6	2,167	27	2,626	2,140	56.6	100.0	24,914	100.0	944	Totals:
10.5	407	11	1,035	397	10.5	18.5	4,617	24.5	231	Pole
45.2	1,760	16	1,591	1,743	46.1	81.5	20,297	75.5	712	<undefined></undefined>
Pole Capacity (%)	Total Stress (psi)	Vertical Stress (psi)	Vertical Load (lbs)	Bending Stress (+/- psi)	Pole Capacity (%)	Applied Moment (%)	Bending Moment (ft-lb)	Applied Load (%)	Shear Load* (lbs)	
						Angle: 2.9°	d - Reporting	gle Mode: Loa	Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 2.9°	Load Summary by

Detailed Load Components:

Power		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment*	Wind Moment* (ft-lb)	Moment at GL*
						(t)			ţ			,		, , ,	
Secondary	TRIPLEX 6 AWG		28.25	27.61	0.5800	2.41	0.113	171.0	90.0	171.0	357	508	ئ	933	1,438
Secondary	TRIPLEX 6 AWG		28.25	41.68	0.5800	2.41	0.113	171.0	90.0	171.0	357	508	ယ	933	1,438
Secondary	TRIPLEX 6 AWG		28.25	27.61	0.5800	2.41	0.113	171.0	90.0	171.0	357	508	3	933	1,443
Secondary	TRIPLEX 6 AWG		28.25	41.68	0.5800	2.41	0.113	171.0	90.0	171.0	357	508	3	933	1,444
Secondary	TRIPLEX 6 AWG		28.25	27.61	0.5800	3.52	0.113	228.0	270.0	228.1	357	-508	4	1,244	732
Secondary	TRIPLEX 6 AWG		28.25	41.68	0.5800	3.52	0.113	228.0	270.0	228.1	357	-508	4	1,244	732
Secondary	TRIPLEX 6 AWG		28.25	41.68	0.5800	3.52	0.113	228.0	270.0	228.1	357	-508	4	1,244	740
Secondary	TRIPLEX 6 AWG		28.25	27.61	0.5800	3.52	0.113	228.0	270.0	228.1	357	-508	4	1,244	740
Primary	AAC 1 AWG 7 STRAND PANSY		33.50	30.11	0.3280	1.78	0.078	171.0	90.0	171.0	492	830	' 2	626	1,453

87	0	87	0	Totals:										
-14,855	0	ω	-14,858	700	18.0	180.0	18.0	0.600	0.21	0.5700	25.75	21.23	CATV .50	CATV
14,886	0	28	14,858	700	153.1	0.0	153.0	0.600	3.22	0.5700	25.75	21.23	CATV .50	CATV
-14,848	0	10	-14,858	700	48.0	180.0	48.0	0.600	0.63	0.5700	40.47	21.23	CATV .50	CATV
14,889	0	<u>3</u>	14,858	700	153.1	0.0	153.0	0.600	3.22	0.5700	40.47	21.23	CATV .50	CATV
12,991	0	00	12,984	500	153.1	0.0	153.0	0.400	3.43	1.0000	23.88	26.00	TELE 1.0	Telco
12,988	0	4	12,984	500	153.1	0.0	153.0	0.400	3.43	1.0000	39.63	26.00	TELE 1.0	Telco
12,989	0	Sī.	12,984	500	153.1	0.0	153.0	0.400	3.43	1.0000	39.63	26.00	TELE 1.0	Telco
-12,985	0	-2	-12,984	500	48.0	180.0	48.0	0.400	0.80	1.0000	16.52	26.00	TELE 1.0	Telco
-12,984	0	<u>'</u>	-12,984	500	48.0	180.0	48.0	0.400	0.80	1.0000	35.68	26.00	TELE 1.0	Telco
-12,984	0	0	-12,984	500	48.0	180.0	48.0	0.400	0.80	1.0000	35.68	26.00	TELE 1.0	Telco
Moment at GL* (ft-lb)	Wind Moment* (ft-lb)	Offset Moment* (ft-lb)	Tension Moment* (ft-lb)	Tension (lbs)	Wire Length (ft)	Span Angle (deg)	Lead/Span Length (ft)	Cable Weight (lbs/ft)	Sag at Max Temp (ft)	Cable Diameter (in)	Horiz. Offset (in)	Owner Height (ft)		Comm
11,629	12,459	0	-830	Totals:										
2	834	ن	-830	492	228.0	270.0	228.0	0.078	2.69	0.3280	32.86	33.50	AAC 1 AWG 7 STRAND PANSY	Primary
7	834	2	-830	492	228.0	270.0	228.0	0.078	2.69	0.3280	32.86	33.50	AAC 1 AWG 7 STRAND PANSY	Primary
4	834	0	-830	492	228.0	270.0	228.0	0.078	2.69	0.3280	13.41	33.50	AAC 1 AWG 7 STRAND PANSY	Primary
1,457	626	N	830	492	171.0	90.0	171.0	0.078	1.78	0.3280	30.11	33.50	AAC 1 AWG 7 STRAND PANSY	Primary

1,151	1,198	-48		24.00	1	30.00	640.00	270.0	270.0	17.86	30.00		1PH-50KVA	Transformer
at GL* (ft-lb)	Moment* (ft-lb)	Moment* (ft-lb)	Length (in)	Diameter (in)	Depth (in)	Height (in)	Weight (lbs)	Angle (deg)	Angle (deg)	Offset (in)	(ft)			1
Moment	Wind	Offset	Unit	Unit	Unit	Unit	Unii	Rotate	Offset	Horiz	Height	Owner	D	PowerEquipment
2,776	2,783	-7	Totals:											
79	79	0	12.00	; 	4.63	24.00	10.00	0.0	270.0	7.43	8.00		100amp Meter	Box
1,198	1,205	-7	23.00	I	16.00	53.00	130.00	0.0	270.0	12.66	16.00		Housing For RRUs	Box
907	906	2	ł	16.00	I	24.00	20.00	0.0	0.0	1.14	46.94		Antenna-KMW FX- OM2LI OH2	Cylinder
593	594	-2	1	3.00	1	84.00	53.06	0.0	0.0	0.36	42.50		3" Dia 7' Steel Pipe	Cylinder
at GL* (ft-lb)	Moment* (ft-lb)	Moment* (ft-lb)	Length (in)	Diameter (in)	Depth (in)	Height (in)	(lbs)	Angle (deg)	Angle (deg)	(in)	(ī)			
Moment	Wind	Offset	Unit		Unit	Unit	Unit	Rotate	Offset	Horiz.	Height	Owner	ent	GenericEquipment

	Normal			Crossarm	
1/2 X 8	CROSSARM 3-1/2 X 4-				
				Owner	
	28.25		(ft)	Height	
	5.71	(in)	Offset	Horiz.	
	270.0	(deg)	Angle	Offset	
	270.0	(deg)	Angle	Rotate	
	53.00	(lbs)	Weight	Unit	
	4.50	(in)	Height	Unit	
	3.50		(in)	Unit Depth	
	96.00	(in)	Length	Unit	
	0	(ft-lb)	Moment*	Offset	
	79	(ft-lb)	Moment*	Wind	
	79	(ft-lb)	GL*	Moment at	

User:Nemesis Nemesis OCP:5.03

Totals:

48

1,198 1,198

1,151

*Includes Load Factor(s)

Page 3 of 5

²Worst Wind Per Guy Wire

3 Wind At 0°

1,390	89	Totals:									
68	6	48.00	3.50	4.50	27.00	0.0	0.0	6.15	20.42	ALLEY ARM 3-1/2 X 4- 1/2 X 4	Offset
2	22	84.00	3.50	4.50	46.00	0.0	0.0	5.83	26.00	CROSSARM 3-1/2 X 4- 1/2 X 7	Normal
	<u> </u>	72.00	3.50	4.50	40.00	270.0	270.0	5.41	33.50	CROSSARM 3-1/2 X 4- 1/2 X 6	Normal

34	30	4	00.7	3.30	0.00	0.0	7.0.2	23.00	20.00		III III Salakoi - O KV	
2	3		7 50	٥ ام	000	0	76.0	35 00	20 60		Pin Insulator - 5 kV	Pin
34	30	4	7.50	3.50	6.00	0.0	81.3	40.00	20.60		Pin Insulator - 5 kV	Pin
74	70	4	12.75	3.80	3.00	0.0	291.3	-15.00	26.00		Deadend 12.75"	Deadend
74	70	4	12.75	3.80	3.00	0.0	279.5	-35.00	26.00		Deadend 12.75"	Deadend
75	70	5	12.75	3.80	3.00	0.0	80.5	35.00	26.00		Deadend 12.75"	Deadend
68	70	-2	12.75	3.80	3.00	180.0	291.3	-15.00	26.00		Deadend 12.75"	Deadend
68	70	-2	12.75	3.80	3.00	180.0	279.5	-35.00	26.00		Deadend 12.75"	Deadend
69	70	<u>.</u>	12.75	3.80	3.00	180.0	80.5	35.00	26.00		Deadend 12.75"	Deadend
49	57	-∞	8.00	3.80	3.00	0.0	190.2	-30.00	33.50		Deadend 12.75"	Deadend
64	57	7	8.00	3.80	3.00	0.0	349.8	30.00	33.50		Deadend 12.75"	Deadend
56	57	0	8.00	3.80	3.00	0.0	270.0	0.00	33.50		Deadend 12.75"	Deadend
64	57	8	8.00	3.80	3.00	180.0	349.8	30.00	33.50		Deadend 12.75"	Deadend
49	57	-7	8.00	3.80	3.00	180.0	190.2	-30.00	33.50		Deadend 12.75"	Deadend
67	45	22	6.00	4.75	11.00	0.0	347.1	25.00	28.25		Suspension 11.50"	Suspension
81	45	36	6.00	4.75	11.00	0.0	351.9	40.00	28.25		Suspension 11.50"	Suspension
00	45	-37	6.00	4.75	11.00	0.0	188.1	-40.00	28.25		Suspension 11.50"	Suspension
21	45	-23	6.00	4.75	11.00	0.0	192.9	-25.00	28.25		Suspension 11.50"	Suspension
82	45	37	6.00	4.75	11.00	180.0	8.1	40.00	28.25		Suspension 11.50"	Suspension
68	45	23	6.00	4.75	11.00	180.0	12.9	25.00	28.25		Suspension 11.50"	Suspension
9	45	-36	6.00	4.75	11.00	180.0	171.9	-40.00	28.25		Suspension 11.50"	Suspension
22	45	-22	6.00	4.75	11.00	180.0	167.1	-25.00	28.25		Suspension 11.50"	Suspension
Moment at GL* (ft-lb)	Wind Moment* (ft-lb)	Oπset Moment* (ft-lb)	Length (in)	Unit Diameter (in)	Weight (lbs)	Angle (deg)	Angle (deg)	Offset (in)	(ft)	C W		lisulation
	1441	>:		4411	45-11	3	75.22		Uninht	2		1.>:1>+>=

_	
EHS 3/8 Span/Hea	Guy Wire and Brace
d	Owner
24.75	Attach Height (ft)
24.75	End Height (ft)
171.00	Lead/Span Length (ft)
0.375	Wire Diameter (in)
75.00	Percent Solid (%)
90.0	Lead Angle (deg)
0.0	Incline Angle (deg)
0.273	Wire Weight (lbs/ft)
168.26	Rest Length (ft)
0.80	Stretch Length (in)

² Worst Wind Per Guy Wire

1,466	38	752	0	Totals:									
1,466	38	752	0	752	1,514	1,514	700	11,550	0.75	15,400	2.30e+7	3/8 Span/Head	EHS 3/8
Moment at GL³ (ft-lb)	Shear Load At Report Angle (lbs)	Shear Load In Guy Dir (lbs)	Vertical Load (lbs)	Applied Tension ³ (lbs)	Maximum Tension² (lbs)	Loaded Tension* ² (lbs)	Initial Tension (lbs)	Allowable Tension (lbs)	Guy Strength Factor	Rated Tensile Strength (lbs)	Elastic Modulus (psi)	Guy Wire and Brace (Loads and Reactions)	Guy (Log

Anchor	Anchor/Rod Load Summary
	Owner
30.00	Rod Length AGL (in)
171.00	Lead Length (ft)
90.0	Lead Angle (deg)
20,000	Strength of Assembly (lbs)
0.75	Anchor/Rod Strength Factor
15,000	Allowable Load (lbs)
1,514	Max Load² (lbs)
752	Load at Pole MCU ³ (lbs)
10.1	Max Required Capacity ² (%)

37.04	972.56	97,896	39.00	57.00	60.00	1.60e+6	11.15	6.69	8.75	10.20	33.75	24.35	0.71
Buckling Load Factor of Safety	Buckling Load Applied at Height (lbs)	Buckling Load Capacity at Height (lbs)	Pole Tip Height (ft)	Ice Density (pcf)	Pole Density (pcf)	Modulus of Elasticity (psi)	Diameter at GL (in)	Diameter at Tip (in)	Minimum Buckling Diameter at GL (in)	Buckling Section Diameter (in)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Column Height* (ft)	Buckling Constant
												ng	Pole Buckli

²Worst Wind Per Guy Wire

	125*	120	115	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	Length of Pole (Feet)	at Top (Inches)	Minimum	Class	
H-6	86.0	85.0	83.5	82.0	80.5	79.0	77.5	76.0	74.5	72.5	71.0	69.0	67.5	65.5	63.5	61.0	58.5	'	-		-	-		6	30	H-6	
H-5	82.5	81.0	80.0	78.5	77.0	76.0	74.5	73.0	71.5	69.5	68.0	66.5	64.5	62.5	60.5	58.5	56.0	-	-	1	0 1	-		٤	37	H-5	
H-4	78.5	77.5	76.5	75.0	74.0	72.5	71.0	69.5	68.0	66.5	65.0	63.5	61.5	59.5	58.0	55.5	53.5	51.0	-	-		-	Mini	٤	2	H-4	DOUG
H-3	75.0	74.0	72.5	71.5	70.5	69.0	67.5	66.5	65.0	63.5	62.0	60.5	58.5	57.0	55.0	53.0	51.0	48.5	1	-	-	,	Minimum Circumference at 6 feet from Butt (Inches)	ç	ມ	H-3	DOUGLAS FIR POLE SIZING CHART
H-2	71.0	70.0	69.0	68.0	67.0	65.5	64.5	63.0	61.5	60.0	59.0	57.0	55.5	54.0	52.0	50.5	48.5	46.0	43.5	-	* -	-	cumfere	<u>c</u>	υ L	H-2	POLE
H-1	67.5	66.5	65.5	64.5	63.0	62.0	61.0	59.5	58.5	57.0	55.5	54.0	52.5	51.0	49.5	47.5	45.5	43.5	41.5	-	1	ī	nce at 6	7.0	သို့	#-1	SIZING
1	63.5	62.5	61.5	60.5	59.5	58.5	57.0	56.0	55.0	54.0	52.5	51.0	49.5	48.0	46.5	45.0	43.0	41.0	39.0	36.5	33.5	31.0	eet from	7/	27	1	CHART
N	59.5	59.0	58.0	57.0	56.0	55.0	54.0	53.0	51.5	50.5	49.0	48.0	46.5	45.0	43.5	42.0	40.5	38.5	36.5	34.0	31.5	29.0	Butt (In	52	ລຸກ	2	
ယ	-	1	-	1	1	1	-	49.0	48.0	47.0	46.0	45.0	43.5	42.0	40.5	39.0	37.5	36.0	34.0	32.0	29.5	27.0	ches)	22	သ ပ	ω	
4	- ×	1	1	1	-	1		1	1	1		41.5	40.5	39.0	38.0	36.5	35.0	33.5	31.5	29.5	27.5	25.0		7	2	4	
5	1	4	1	1	1 00	-	1	1	1	1	-	1	•	,		34.0	32.5	31.0	29.0	27.5	25.5	23.0		ď	Ď	OI	
6	- 354	1	-	1	1	1	-	1	1	1	•	1		'	ı	ı	30.0	28.5	27.0	25.0	23.0	21.0		-	7	6	

^{* 125&#}x27; Availability: Untreated Only

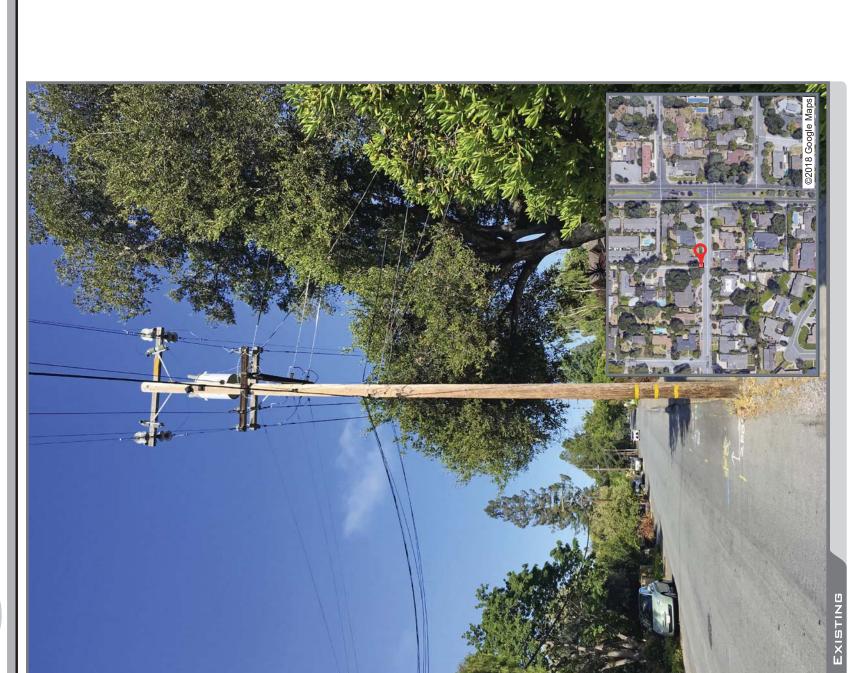


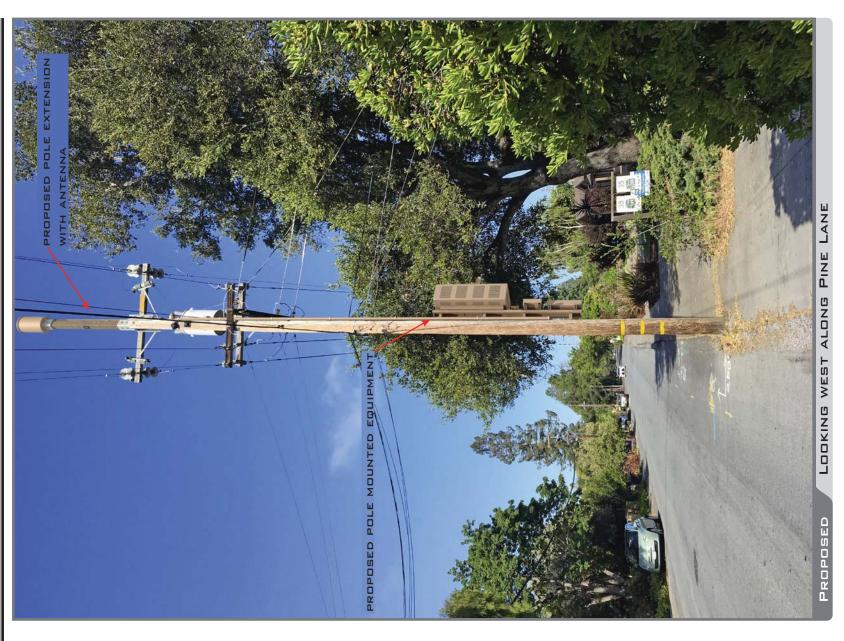
CRAN RSFR LOSAO 04

33 PINE LANE LOS ALTOS GA 94022









ACCURACY OF PHOTO SIMULATION BASED UPON INFORMATION PROVIDED BY PROJECT APPLICANT,

Alternate Review

- ☐ AT&T proposed a node location near North San Antonio and Pine Lane
- ☐ Existing (traditional) cell sites are not suitable candidates for colocation as they do not meet network requirements
- ☐ Two alternate locations were considered



Alternative Site Location (A1)

This location is a wood utility pole located in the public ROW on the south side of Alvarado Avenue at the intersection of Vera Cruz Avenue

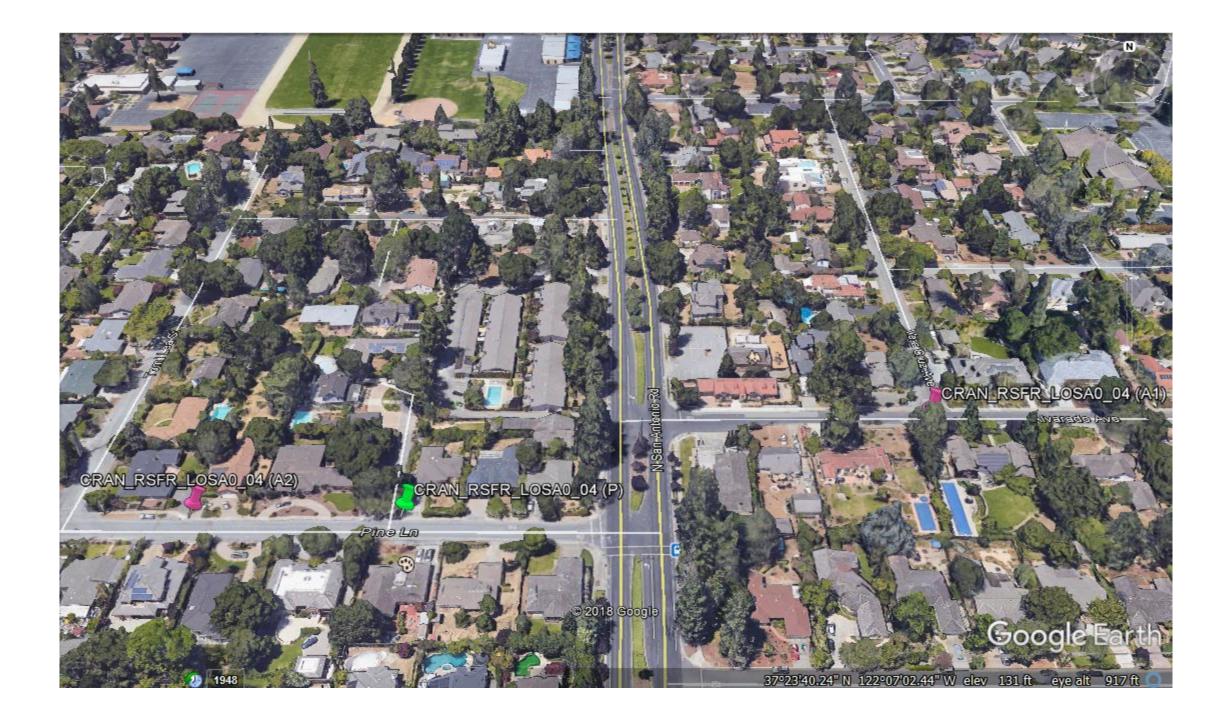
This pole is a possible candidate but has more pole top equipment and is less desirable due to network traffic needs



Alternative Site Location (A2)

This location is a wood utility pole located in the public ROW on the north side of Pine Lane near Tomi Lea Street

This pole is a possible candidate but is not ideal due to the fact that it has more pole top equipment, and potential climbing space or ground clearance issues



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 MOBILIY 5001 EXECUTIVE PARKWAY 5001 RAMON, CA 945&3

at&t

CRAN RSFR LOSAO 04

ROW ADJCT TO 33 PINE LN

SITE ADDRESS:

SITE ID:

.05 ALTOS, CA, 94022

PG¢E POLE (PM# 114474135)

2898152

FA LOCATION:

POLE OWNER:

SITE TYPE:

PG¢E

36 EXECUTIVE PARK, SUITE 210

Phone: (530) 823-6546 www.pdnd.com PRECISION DESIGN

THIS IS AN UNIMAINED TELECOMMUNICATIONS FACILITY FOR ATFT WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENINS & ASSOCIATED EQUIPMENT OF AN (E) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

PROJECT DESCRIPTION

INSTALE (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) PC#E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON GO95 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTERAC DISCONNECT, (1) CONCEAUMENT BOX CONTAINING (1) RRU I 1 & (1) 44 I 5 W/ PSU UNITS, ¢ (2) DIPLEMES, ¢ (1) KAMY PX-OM2LI OH2

CYLINDRICAL ANTENNA. ALL EQUIPMENT TO BE PAINTED TO MEET JURISDICTION APPROVAL. UTILITY LINES BETWEEN (€) POINT OF CONNECTION ¢ POLE TO BE UNDERGROUND AND/OR OVERHEAD.

DRAWING INDEX

SHEET NO

PROJECT TEAM (408) 796-8443 CHRISTOPHER.JOHNSON@ERICSSON.COM STONERIDGE MALL RD, SUITE 350 NANTON, CA 94588 ARCHITECTENGINEER OF RECORD: BRET MACOMB PRECISION DESIGN & DRAFTING, INC I 1760 ATMOOD ROAD, SUITE #20 AJUBURN, CA 95603 (530) 823-6546 BRET @PUND.COM 36 EXECUTIVE PARK, #210 IRVINE, CA 92614 (949) 278-2962 (949) 278-2962 ..MEINERS@SURE-SITE.COM CONSTRUCTION MANAGER: TBD PROJECT MANAGERS: CHRIS JOHNSON RF MANAGER: Egan Junior High School VICINITY MAP SITE LOCATION Santa Rita Santary School Alta Mesa Memorial Par REATER 122° 06' 54.19" W (-122.1150700) NAD 83 37° 23' 32. I 2" N (37.3922600) NAD 83 SURESITE 36 EXECUTIVE PARK, SUITE 210 IRVINE, CA 92614 SITE INFORMATION AT≰T MOBIUTY 500 I EXECUTIVE PARKWAY SAN RAMON, CA 94583 ROW ADJCT TO 33 PINE LN LOS ALTOS, CA, 94022 ADJCT TO 167-23-035 CITY OF LOS ALTOS ±116.3' AMSL SANTA CLARA PUBLIC ROW 100509246 STREET CLASSIFICATION: ZONING JURISDICTION: GROUND ELEVATION: SITE ADDRESS: PG¢E SAP ID: LONGITUDE: APPLICANT: COUNTY: LATITUDE: ZONING:

DRIVING DIRECTIONS

CODE COMPLIANCE

5. 2016 CALIFORNIA PLUMBING CODE

6. 2016 CALIFORNIA FIRE CODE

8. CITY/COUNTY ORDINANCES 7. LOCAL BUILDING CODES

9. ANSI/EIA-TIA-222-G

DIRECTIONS FROM AT¢T WIRELESS WALNUT CREEK OFFICE

CONSTRUCTION WOR'S & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL INDICIOUS BUT INDIT INMITED TO:		DIRECTIONS FROM AT¢T WIRELES
TOCAL CORES AS ABOUTED BY ESCALABORATION, INCENDING BOT NOT BINITED TO	FROM:	5001 EYECUTIVE PARKWAY, SAN RAMON, CA 94583
1. 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 ¢ 25)	ë	
2. 2016 CALIFORNIA BUILDING CODE	<u>-</u> :	HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR
	2. ⊓	TURN RIGHT ONTO SUNSET DR
3. 2016 CALIFORNIA ELECTRICAL CODE	3.	TURN RIGHT ONTO BOLLINGER CANYON RD
	4.	MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE
4. 2016 CALIFORNIA MECHANICAL CODE	ς. Σ	5. MERGE ONTO I-680 S
	6	C STAY ON LCAD S FOLLOW SIGNS FOR LEASO

5. IDRN RIGHT ONLO BOLLINGER CANTON RE	4. MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE	5. MERGE ONTO I-680 S	6. STAY ON 1-680 S, FOLLOW SIGNS FOR 1-580	7. TAKE EXIT 12 FOR MISSION BLVD TOWARD I-880	8. KEEP RIGHT AT FORK, FOLLOW SIGNS FOR CA-262 S/ MISSION BLVD	9. MERGE ONTO CA-262 S/ MISSION BLVD	10. TAKE EXIT ON LEFT TOWARD I-880 S/ SAN JOSE	11. MERGE ONTO 1-880 S	12. TAKE CA-237 W EXIT TOWARD MTN VIEW	13. CONTINUE ON CA-237 W	14. KEEP LEFT TO CONTINUE ON CA-237 W/ SOUTHBAY PWY	15. TURN RIGHT ONTO EL CAMINO REAL	I.G. TURN RIGHT ONTO DISTEL DR	17. TURN RIGHT ONTO MARICH WAY	18. TURN LEFT ONTO PANCHILA WAY	•	20. TURN LEFT ONTO N SAN ANTONIO RD	21. TURN RIGHT ONTO PINE LN	END AT: 33 PINE LANE, LOS ALTOS, CA 94022	ESTIMATED TIME: 18 MINS ESTIMATED DISTANCE: 10 MI
																	SITATION HANDICAPPED ACCESS €	- WITH CALIFORNIA STATE	105B.3.4.2. EXCEPTION 1	

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 I 105B.3.4.2, EXCEPTION I

GENERAL NOTES, LEGEND, ¢ ABBREVIATIONS EQUIPMENT PLAN ¢ ANTENNA PLANS ELEVATIONS DETAILS ELEVATIONS TITLE SHEET SITE PLAN

DETAILS SINGLE-LINE DIAGRAM & DETAILS GROUNDING DIAGRAMS

CRAN_RSFR_LOSAO_04

ROW ADJCT TO 33 PINE LN LOS ALTOS, CA 94022

ISSUE STATUS

DATE DESCRIPTION
06/06/18 CD 90%
10/29/18 CD 100% APPROVED BY: B. McCOMB CHECKED BY: 1. DICARLO 10/29/18 DRAWN BY:

TITLE SHEET

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CONTRACTOR SHALL VERFY ALL PLANS & (C) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL INMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11'X 17" FLOT, DRAWINGS WILL BE HALF SCALE. ADMINISTRATIVE REQUIREMENTS

"CALL BEFORE YOU DIG"

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

811/800-227-2600 NATIONWIDE UNDERGROUND SERVICE ALERT

MANTAN 40 MINIMAM COME FOR ALL ELGTRICAL CONDUTS. MANTAN 40 MINIMAM COME FOR ALL ELGTRICAL CONDUTS. MANTAN 11 SAND SHAWD SECTION CONTINUATIONS CONDUTS. MANTAN 11 SAND SHAWD SECTION CONTINUATIONS CONDUTS. MANTAN 12 SAND SHAWD SECTION CONTINUATION SECTIONS. IN STITEST SELECTION CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES. IN STITEST SHAWD SHAWD SHAWD SHAWD SECTION WHITHE SOUT FOR AUXILIARY. IN DIRECTION TO SHAWD SHAWD SHAWD SHAWD. GENERAL TRENCHING NOTES PROR TO THE SUBMISSION OF BUDS, THE BUDDING COMPACION, SHALL VISIT THE CHASTIET TO PARLIANGER WITH THE EXCENTED AS SHOWN. ON THE CONSTRUCTION DRAWNES. ANY DISCREPANCY FOUND SHALL BE BROAGET TO THE ATTENTION OF CONTRACTOR. GENERAL NOTES FOR EXISTING CELL SITES LABOR NECESSARY TO 2. THE COMITING SHALL OBYANI, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DETINED OR IDBATHED BY THE CONITING DOCLAMENTS. I. FLAIS AR INTENDED TO BE DIAGNATIVATIC CUTLINE DIVIT, UNLESS NOTED OTHEWICE. THE WORK, SHALL INCLUDE FURNISHING MATERIALS, EQUITABIT, APPLIETEMACES AND COMPLETE ALL INSTITUTIONS AS INDICATED ON THE DRAWNINGS. GENERAL CONSTRUCTION NOTES



36 EXECUTIVE PARK, SUITE 210

O 3" AT BASE OF POLE. UP FOLE IO™ 4"3" FOWER CONDUIT, FOWER COMPANY TO COMPERT PROM. 3" STUB SCHEDULE 80 TO 2" SCHEDULE 80 PROM. TOP OF STUB UP.

FOR RISER USE. Chiduit for any comput under 3°, stub up 10° then convert to schedule 80.

at&t

WORK OR CONSTRUCTION. WHERE LOCAL CODES OR 6. REPRESENTINGS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE FLOT OF SURPOY DEWINDS, SHALL NOT BE LISED TO DISHIPT OR ESTABLISH BEARING OF TRUE NORTH, AND SHALL NOTHYTHE MACHINGTONIONERS.
CONTRACTOR, SHALL RELY SOLGE YON THE POST OF SURPOYS AND SHARONGS AN THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTHYTHE MACHINGTONIONERS.
PROPE TO PROCESSING WITH THE WORK IS ANY DECRETANCY IS FOUND BETWEEN THE CARROLLE EDABLISTS. OF THE WORKING DRAWINGS AND THE TRUE NORTH ORBITATION AS DEFICIDE ON THE CARL
SURPEY. THE CONTRACTOR SHALL ASSUME SOLE LABBLITY FOR ANY PALLISE TO NOTHY THE MACHING. GRID, INTERIOR 4. THE CONTRACTOR SHALL HET ALL EQUIPMENT AND MATERIAS IN ACCORDANCE WITH IMMUNICITIES RECOMMENDATIONS IMLESS SPECIFICALLY INDICATED OTHERWISE, OR I PEDALFIONS TAKE PECESPRICE. 5. AL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COCABC'S REQUIREMENTS RESARCING BARTHQUARE RESISTANCE, FOR, BUT NOT LIMITED TO, FITING, RRITHES, CRILING PARTICULES, AND MECHANICAL EXCILINEMENT. ALL WORK MIST COMPLY WITH LOCAL ENRINGUARE COOKES AND RESILIATIONS. 3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE

7. THE BUILDING DEPARTMENT ESUING THE PERANTS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED

heta. Do not excavate or disturb beyond the property lines or lease lines, unless otherwise noted.

OFFICIAL HAVING JURISDICTION.

IO, CAMINACIOR SHALI MEBY ALL BISTING UTULIS, BOTH HOWENTAL AND VRETICALLY, FROK TO THE STAKE OF CONFINCTION, ANY DESCREMACIES OR DOLBTS. AS TO THE INTERFERINDS OF TAMES SHOULD BE MANIBANETA VEROGRED TO THE ARCHITECT BACHETS FOR RESOLUTION AND INSTRUCTION, AND OTHER FORM PESS, AND ENTERS DIAMETER, THURSE TO SECORE SUCH INSTRUCTION MANIS CONTRACTOR, WILL HAVE WORKED AT HISTIRED WAN PESS, AND DEPOSE.

I 2. ANTORAIN ANDOR FIDD THE RACOMPREND DURING CONSTRUCTION SHALL BE KETHURD TO IS ORGAN, CONTRACTOR COMPLETION OF WORK, SIZE, LICKATION AND THE OF ANY UNDESCROUND UTILITIES OR IMPROVIDED TO THE MACHITECT INSMERT AT COMPLETION OF PROJECT. PROJECT.

II. ALL NEW AND EXISTING UTLITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO PINISH DEVAITORS PRIOR TO PINAL INSPECTION OF WORK.

13. ALT TRAPOREY DICHATION OF TOURDATION OF TOURDATIONS, UTUITES, ETC, SHALL BE PROTERY IND BACK OR BRACED IN ACCORDANCE WITH CORRECT COCCUPATIONAL SMEETY AND HEALTH ADMINISTRATION (OSHIV) PROJUEDACHES.

OR REMOVED.

17. ALL EQUINIBNI, INCLIDING ANTRINAS, MOUNTINGSTANDOF BRACKETS, FOLE BITENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED MESA BROWN LISING A DURABLE OUTDOOR PAINT

IG. FCNDATED RF WAC MARNING SIGWIGE SHALL PACE OUT TO STREET WHEN PLACED IN PRONT OF OR NEAR, A WAIDOW. SIGWIGE SHALL PACE TOWARD THE BUILDING IF THERE IS NO WANDOW.

15. ALI EQUINANT LOGOS, OTHER THAN THOSE REQUIND DE REGULATION EG. NOTE DEBITHOATION OR SINTURE PAINTED OPEN O RAJEDIDEPRESSED LOGOS OR TIDT ON EQUINABIT (F.G. RRUS), IF PRESENT, TO BE SANDED OFF OR COMPRESO WITH SITIOST, & THEN PAINTED OFF.

14. INCLUDE MISC ITEMS PER AT \$1 WIRELESS SPECIFICATIONS.

18. CHOUNG SHALL DE MESA BROWN IN COLOR AND SHALL DE NISTALLED IN A TIDY MANNER WITHOUT DICCES CHOLE LOOPS, 4 SHALL DE HIDDEN FROM VIRY TO THE MANNAUM BRIENT POSSIBLE.

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

KEOJEC OBLIT TO MORG, PLOZ Z' FLAKORIC COBE ID. TIAGS ON BOTH SIDES OF ARMG.
ANTINHOU BULLSO OTHERWING SPECIFIED.
SOUTHERN SAY DEPOSURE AT AMMILIAG OF FOOM TRANSMIT ANTIBNA WHICH IS 24" AMAY FROM CORTER OF POLI.
SA TORONIT OFFINIEW WITH TOAM SPEAKINT TO PREPARE WITHER MITAUSON. 15" CLEAR SPACE OFF POLE FACE.

Phone: (530) 823-6546 www.pdnd.com PRECISION DESIGN

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JOSE 01510	DESCRIPTION	%06 CD	CD 100%					IB/BL	T. DICARLO	B. McCOMB	10/29/18	SHEET TITLE:	GENERAL NOTES, LEGEND,
7000	□ DATE	06/08/18	10/29/18					DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	SHEE	GENERAL NO
		_											

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(N) POLE MOUNTED XPMER (E) POLE MOUNTED XFMR (N) PAD MOUNTED XFMER (E) PAD MOUNTED XPMER

LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG FERRI-100-06-1

LIGHTING FIXTURE, HALDGEN, QUARTZ, 1/300W, LIGHTING CATALOG #QL-505

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> OVERHEAD TELEPHONE LINE OVERHEAD POWER LINE POWER RUN

----ОНТ/ОНР-- THO - OHD ا ا

X SECTION REFERENCE

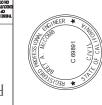
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LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336

Д •

5/8" X 10"-0", CU. GND ROD 1.8" MIN. BELOW GRADE

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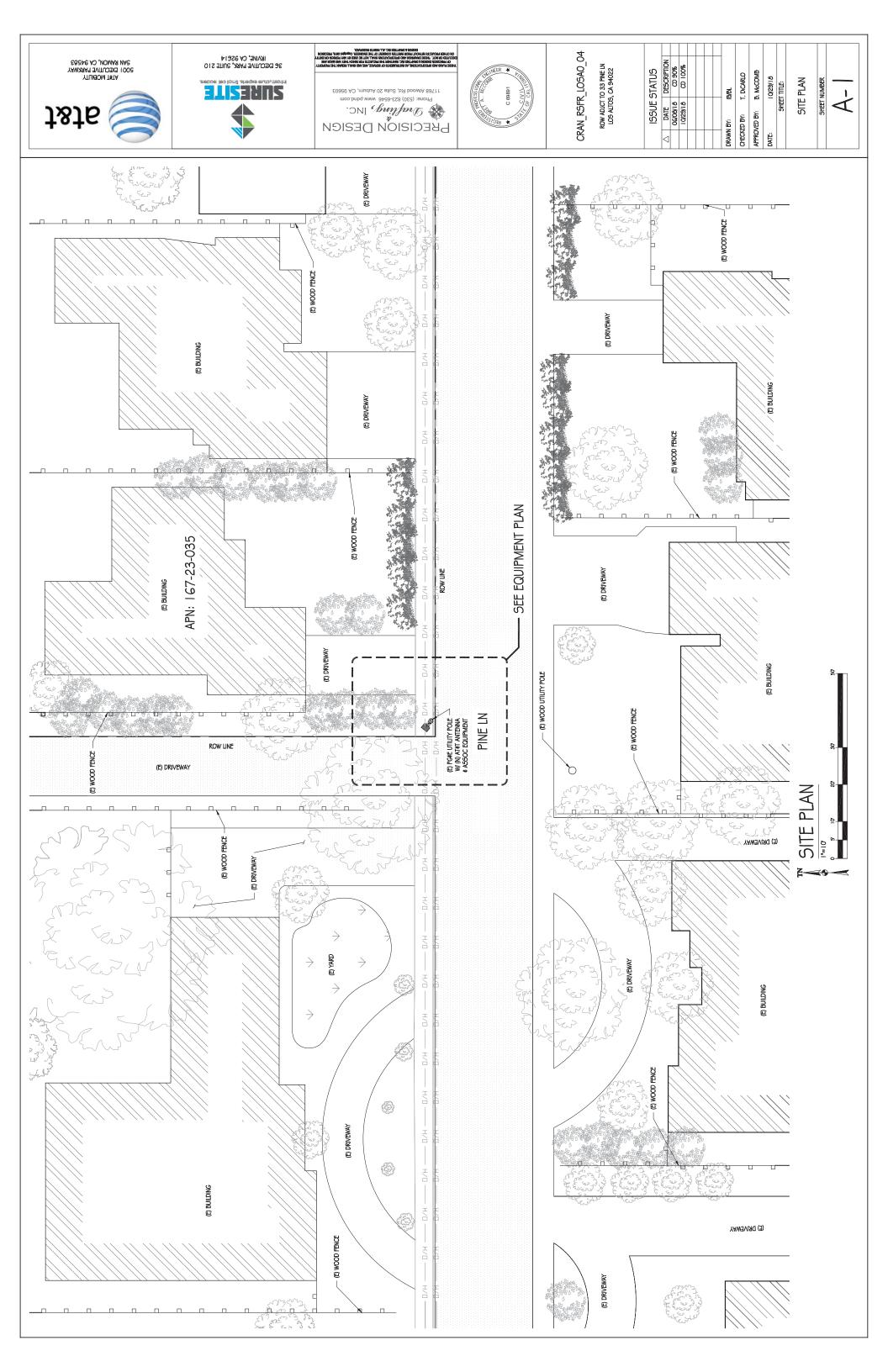
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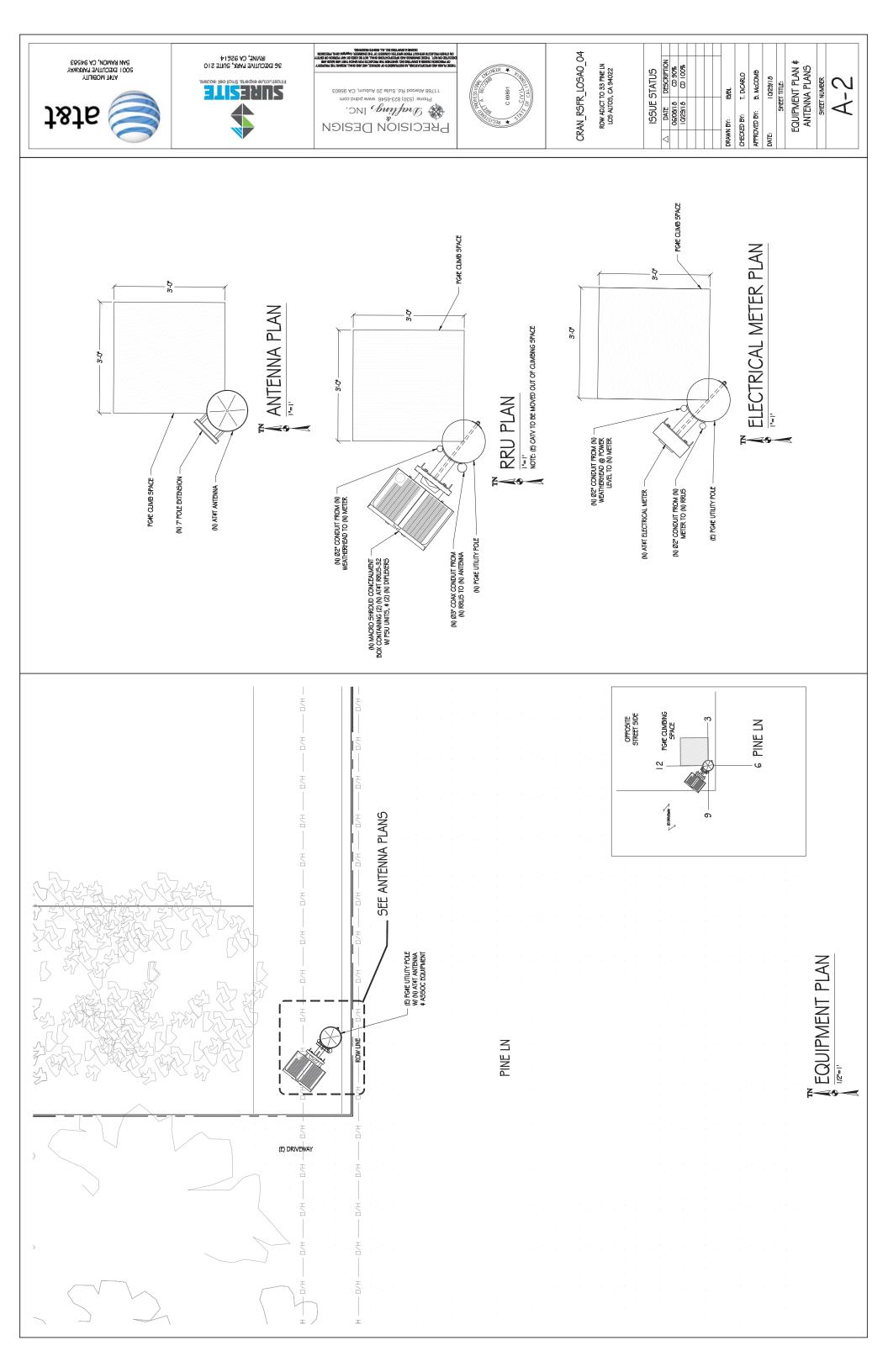
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		×					

CEPTED CELTER COTT IN COLUMN	•	LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOJINTING TYPE, HUBBELL HOPTING CATALOG	9	POWER			(×
POLE		ENERGENOY LIGHTING, 250W, HUBBELL LIGHTING CATALOG #HEG-50-2-R91		OVERHEAD TELEPHONEOVERHEAD	Y Y Y Y Y Y Y Y Y Y	ELEVATION REFERENCE	XX
IONIZATION SMOKE DETECTI AUXILIARY CONTACT, 120 V 7100F	(S)	COMBNATION, EXT SIGN ¢ EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #FRC		OVERHEAD SERVICE CONDUCTORS	— · m/6 · —		(
TOGGLE SWITCH, IP-120V-	S _{WP}	EXT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, WIBATTERY PACK, HUBBELL LICHTING CATALOG #PRB	\$	GROUND CONDUCTOR COAXIAL CABLE	— CDAX —		· (×
TOGGLE SWITCH, IP-125V- HUBBELL CATALOG #HBL 12	S	LIGHTING PIXTURE, HIGH PRESSURE SODIUM, 1/704, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/504, HUBBELL LIGHTING CATALOG #NRG-121	모	WORK POINT		REVISION	< (;
RECEPTACLE, 2P-3W-125V- GROUND TYPE, HUBBELL CA	•	LIGHTING FIXTURE, PLLORESCENT, 10.34* x 8-0°, 295W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #TWSM232T		MATCH LINE		SET POINT	◁
STEP-DOWN TRANSFORMER	\vdash	UGHTING FYTURE, FLUORESCENT, 10.34"x 4".0", 240W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WSW232T		CENTERLINE PROPERTY FASE INF		SPOT ELEVATION	•
TRANSFORMER	*	MANUAL TRANSFER SWITCH, 2P-240V-2004, NO FUSE, NBMA 3R ENCLOSURE	Ī	STEEL		FND. MONUMENT	0
UTILITY METER BASE	3	SAFETY SWITCH, 2P-24OV-GOA WIGOA FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NRB		WOOD BLOCKING		LIGHT POLE	\$
CIRCUIT BREAKER	{	FUSE, SIZE AND TIFE AS INDICATED.		SAND		XOR JINOHGH ELL] ⊩
	7			PLYWOOD		ELECTRIC BOX	ш
HAIO CEOUIND CONNECTION	•	— CONDUIT UNDFRGROUND		GRAVEL	000000000000000000000000000000000000000	GROUND ACCESS WELL	\otimes
MECHANICAL CONNECTION	•	 GROUNDING CONDUCTOR 		EARTH		MECHANICAL GRND. CONN.	•
CADWELD CONNECTION		GAZORIANO CORPOSO ON	9	CONCRETE		GROUND BUSS BAR	ţ
(XIT GROUND ROD)	D	CENTINDIA CONDICTOR		(E) MASONIRY	annumunum	GROUND ROD	\otimes
CHEMICAL GROUND ROD	4	— POWERTELCO RUN	— P/T —	(E) BRICK		EXISTING ANTENNA	•
5/8" X 10"-0", CU. GND ROD BELOW GRADE.	•	— TELCO RUN		GROUT OR PLASTER		NEW ANTENNA	ŀ
							SYMBOLS LEGEND

2. MANITAN 90 MINIMUM COME ROK ALL TELCOMANULICATIONS CONDUITS. 3. MANIMUM 1-AMO SHANDHOWNE BEDNY CONDUITS, AND 6° CONSERVE ON THE OF COMB. ALL SECTION OF CONDUITS AND SHAND	4. ALL ELGYICAL, CONDUIS PROM FOME TOOM WHY POLE. TRANSFORMES 5. IN STREET SURREYTO GRADE AND MILL DOWN I-IZE TOR ACC AC C. IN DIFF SUREY I/P PROM, CRADE AND MILL DOWN I-IZE TOR ACC ACH FOR PART		GENERAL GROUNDING NOTES	1. 56° x 10 ROD, CAD WRID PRICAY GRADE. 2. GROUND TESTED AT 5 OMAS OR LESS.	3. PO GROUND SY PROM POLE. 4. GROUND SY PROM POLE. 5. PLACE 84 ID GA HWEIS PROM TIEGO BREAKER TO PRAM OR STRONG DOX. 6. WOODD MOULDING, STAPLED PREKY 3º AND AT EACH BID. 6.	GENERAL CONDUIT NOTES	1. ALL CONDUITS WILL DE MANDREID AND EQUIPPED WITH 3/9" PULI ROPE.	2. SCHEDULE OCCUMENT FOR RESE USE. 3. SCHEDULE OCCUPION FOR RESE USE. 4. Z ALVANZOS STELE CONDUIT FOR ANY CORDUIT WIDER 31, STUB-UP 10° THEN COR	5. CONVERT 4" CONDUIT TO 3" AT BAGE OF POLE. 6. CONTRACTOR TO 5TUB UP POLE 10" w/ 3" POWER COMDUIT. POWER COMPWAY TO CA	TYPICAL R.O.W. POLE CONSTRUCTION NOTES	2. ALCUMS STEPS MOT TO CONDUT SHALL HAVE ESTENCED STEPS. 3. NO BOAT THE LEGY OF ROTHURD WARRETHAN 1-1/2"		6. USE 1/2" DIA, CABLE ON ARTENNOS UNIESO OTRERVIGE SPECIFIED. 9. PLACE GPS ON ARM OF SOUTHERN SK PEROSULE AT MINIMAM GF FROM TRANSMIT.		ABBREVIATIONS	A MATERIA MATE	A MICHAEL MINISTRAL MINIST		BREAK	BOT BOTTON OFFICIAL STATES OF THE STATES OF	CANT COUNTY PACE CANT COUNTY PACE CANT TO COUN	CONCERNING CONCERNING CONC	OONN OOMSTICTOROOD OONSTICTOROOD OONSTICTOROOD OONSTICTOROOD I TRANSPORTED I	DEN DOWNED DEN DOWNED DET DOWNED DY DOWNERS	DIM DAMESONAL DIM DOMESON DIM DOMESON DAMESON	ಶಿಲಿದದ	DAT RECOVERAGE TO THE PROPERTY OF THE PROPERTY	DST, CR. DESTRUCTION OF THE PROPERTY OF THE PR	F. P. PECCH MAN F. PECCH MAN F. PECCH PRODUCE F. PECCH PR	TUCK TUCKESCAN TUCK TUCKESCAN TOC MACE OWNERS
TION. Institution of powerful cyclical cultural culture formation as teles as september	MEDICINE OF PERIMA CONSTRUCTION SHOWN ON THE DRAWNES MUST BE VERIFIED. ING WITH CONSTRUCTION.	T DISALIPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE ON USUALLY IN LOW TRAFFIC PERIODS AFTER MEDNIGHT.	F. ELCTROMACNETIC RADATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING BE WORN TO ALEST OF ANY DANGEROUS BLYGSURE LEVELS.	GROUNDING CARLES AS SHOWN ON THE TOWER, GROUNDING AND TELCO FLAN DRAWANG, CONTRACTOR SHALL UTLZZ MFTAN THE ACTUAL ROUTING WITH THE CONTRACTOR.	CONTRACTOR SHALL EGALY AND PROPTELY DEPOCE OF ALL SCRAP MATERALS SUCH AS COARAL CABLES AND OTHER ITEMS PEMONED PROM THE ENSTHIG FACILITY. ANTHAWS PEMONED SHALL DE RETURNED TO THE OWNERS DESIGNATION.		E LOCAL AUTHORITY HAVING JURISDICTION (ARL) FOR THE LOCATION.	улги те резин.		6, BUIDNE CODE REQUIREMENTS FOR STRUCTURAL CONCRETE CATON (MSC), MANUAL OF STEEL CONSTRUCTION, ASD, MINTE DITION CANON (IN MSSEE, STRUCTURAL SANANDER FOR STRUCTURAL, ANTERNAT ON THE MASSEE STRUCTURES SANCS DIGHERES (TEES) 61, GLIDE FOR MSSEINNE BERTH RESISTIVITY, GROUND IMPEDIANCE, AND EARTH SURVICE FOOTBUILLES OF A GROUND SYSTEM (TEES) OPPERING AND GROUNDING OF TEXTIFICAL EXILITIES.	ar location category yca and faigh a bycolrej soa greg aithnork routhant-buidang system arege; protection			onstruction, or other requirements, the most restrictive shall govern, where all govern.				S,GY, X (OO', CJ.), GND ROD IN TEST WELL 18" MIN. BELOW GRADE.	CHEMICAL GROUND ROD KMT GROUND ROD)	CADWELD CONNECTION	MECHANICAL CONNECTION	HALD GROUND CONNECTION	CIRCUIT BREAKER	UTILITY METRY BASE	TRANSFORMER	STE-DOWN TRAISFORMER	RECETIACLE, 2P-3W-125V-15A, DUPLEX, GROUND TYE, HUBBELL CATALOG #3362	TOGGLE SMITCH, IP-125V-15A, HUBBBLL CATALOF #MBL 1201CN	TOGGLE SMITCH, IP-1204-15A, WP	IONIZATION SMOKE DETECTOR W/ALARM HORN ‡ ALMILLARY CONTACT, 120 VAC, GENTEY FART NO. 7 1007
IE ATTENTION OF CONTRACTION OF CONTR	ENCING ANY WORK, ALL DIN NG MATERIAL OR PROCEEDII	YY CONTRACTOR SHALL NOT PRIATE MAINTENANCE WINDO	S AROUND HIGH LEVELS OF NITORS ARE ADVISED TO B	SROUNDING CABLES AS SHI IFIRM THE ACTUAL ROUTING	COANIAL CABLES AND OTH	305	CODES AS ADOPTED BY TH	ONTRACT AWARD SHALL GO	JARDS:	R STRUCTURAL CONCRETE STRUCTION, ASD, NINTH ED NDARD FOR STRUCTURAL A OR MEASURING EARTH RESI CAL EQUITMENT	SE AC POWER CIRCUITS (FO IMUNICATIONS AND TELCOR			Material, methods of CC Specific requirement 94				O	•		•	•	{	3	***	H	•	S	S_{wp}	\otimes
ON THE CONSTRUCTION DRAWNIGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.	COMPACTOR SHALL MEDITING DIABBOOKS AND COMMITTING PROK TO COMMEMBERS OF BESTING CONTRUCTION SHOWN ON THE DRAWINGS MUST BE VERTIFD. CONTRACTOR SHALL NOTIVE THE CONTRACTOR OF ANY DISCREPANCES PRICKE TO REDEBING MATISAUL OR PROCESSING WITH CONSTRUCTION.	THE DESTING CELLSTIES IN THIL COMMERCIAL, OPTENTION, ANY CONSTRUCTION MORK BY CONTRACTOR SHALL NOT DEBUTT THE DESTING MORAL OPTENTION. ANY WORK COORDINATED WITH CONTRACTOR. ALSO, MORK SHOULD BE SCHEDILLD FOR AN APPROPRIATE MANTENANCE MINDOW USHALLY IN LOW TRATFC PREVIOS AFTER MIDNEST.	SHICT THE CALL SITT IS ACTIVE, ALL SHITTY PRECUITODIS MAIST BE TAKEN WHEN WORKINS ARE ADVISED TO BE WORKED TO BE WORKED TO DE WORKED TO DEW	CONTRACTOR SHALL DETENINE ACTUAL ROTING OF CONDUT, POWER AND TI CHALES, GROMONIC CHALES AS SHOWN ON THE POWER, OR BIGITING TRATS ARRORS SHALL ADD NEW TRATS AS NECESSARY, CONTRACTOR, SHALL CONTRAT THE ACTUAL ROTITING WITH THE CONTRACTOR	CONTRACTOR SHALL LESALLY AND TROPERLY DISPOSE OF ALL SCRAP INATERIALS SUCH AS: TO THE OWNERS DESCRIVED LICKTORI.	APPLICABLE CODES, REGULATIONS, AND STANDARDS	ОХИТКАТОРВ МОЖ, ВНИL СОЛИТУ WITH ALL APTICULE MATIONL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL ALTHORITY HAVING JARSDICTION (AND) TOR THE LOCATION.	THE EDITION OF THE A'LADOPTED CODES AND STAIDARDS IN ETTECT 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 (AD) 310, BUIDNIG CODE PROJUEDIANI FOR STRUCTURA, CONCRET AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 1650, INNITI DITION -TELECOMAMINICATIONS INDUSTRIA RESOCIATIVI (IN 18.22 F., STRUCTURE, STANCTURA, ANTENAN TORNEN AND TORNEN STRUCTURES -ANSTITUTION FOR ELECTRICAL AND ELECTRICANCE DEMETERS (ETT.) 61, GLUETE FOR MASSIMED BURTHAND MASSIMED, AND ENCRY SURVEY FOR THE STRUCTURE CONTINUED.	-EEE CE2.4.1, FECOMANDEDS TRACTICES ON SINCE VOLINGE IN LOW VOLINGE AC FOWER CREATES (FOR LOCATION CATEGORY) CE3. AND YIGH SHIFTING PROPERLY. TH, GOT COMMENCAL BULDING GROUNDING AND DORDING REQUIREMENTS FOR TELECOMANICATIONS AND TELECORDIA GR. GE3. NETWORK GOLIMBENT SHILDING SHIFTING SHILDING SHILD	TELODON ARKAY CHITRA CHTCZ FOWER WRING TELODON AC'I 275 GALEVAL MISTALATION REQUIREMENTS TELODON AR'I 509 COMMETCHING	ANY AND ALL OTHER LOCAL ¢ STATE LAMS AND REGULATIONS	FOR ANY COATLICTS BETWEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONFINCTION, OR OTHER REQUIREMENTS, THE MOST RESTRUTATE SHALL GOVERN, WHERE E COATLICT BETWEN A GENERAL REQUIREMENT, THE SPECIFIC REQUIREMENT.				— TELCO RUN	- POWERTELCO RUN	- Grounding Conductor	- GROUNDING CONDUCTOR	— CONDUIT UNDERGROUND	FUSE, SIZE AND TYPE AS INDICATED.	SATEN' SMITCH, 2P-240V-GDA WIGOA FUSES, NEMA 3R ENCLOSURE, SO D CATALOS NO. H222NRB	MANUAL TRANSFER SWITCH, 2P-240V-2004, NO FUSE, NEMA 3R ENCLOSURE	LIGHTING FIXTURE, FLUCRESCENT, 10.94" x 4"C", 240W, 5URFACE MOUNTING TITE, HUBBELL LIGHTING CATALOG #WSW232T	LIGHTING FIXUITE, FLUORESCENT, 10.34" x 8-0", 295W, SJIRTACE MOUNTING TYTE, HUDBELL LIGHTING CATALOG FINSM232T	LIGHTING FYTLIRE, HIGH PRESSURE SODIUM, 170W, WALL MOLNITING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1,50W, HUBBELL LIGHTING CATALOG #NRG-121	DAT SIGN, THERMOPLASTIC LED, SINGLE FACE, INNVERSAL MOUNTING, WIBATTERY FACK, HUBBELL LIGHTING CATALOG #PRB	COMBINATION, DUT SIGN & BARBGBNCY LIGHTING, HUBBBLL LIGHTING CATALOG #PRC
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AT#T MOBILITY 5001 EXECUTIVE PARKWAY 5AN RAMON, CA 94583

at&t



TOP OF (N) ATET ANTENNA
±45-1' AGL
RAD CENTER OF (N) ATET ANTENNA
±44-1' AGL
EOTTOM OF (N) ATET ANTENNA
±43-1' AGL

(N) Ø3" COAX CONDUIT FROM (N) RRUS TO (N) ANTENNA, BEYOND

6' POWER SAFETY ZONE PER G095

(N) RF SIGNAGE

(N) AT¢T ANTENNA (N) 7" POLE EXTENSION TOP OF (N) RF SIGNAGE ±39'-9" AGL



MID OF (E) CROSSARM ±33-¢" AGL TOP OF (E) TRANSFORMER ±31-10" AGL

(E) RELOCATED CROSSARM # INSULATORS

(E) RELOCATED 50 KVA TRANSFORMER

TOP OF (E) POLE ±35'-9" AGL



MID OF (N) CROSSARM ±20'-5" AGL

· (E) REMOUNTED COMM LINES ON (N) CROSSARM

MAX HEIGHT OF (N) JPAK STANDOFF BRACKET, ¢ TOP OF (N) MACRO SHROUD ± 18-0* AGL

(N) MACRO SHROUD CONCEALMENT BOX CONTAINING (2) (N) AT¢T RRU5-32 W/ PSU UNITS, ¢ (2) (N) DIPLEXERS

(N) JPAK STANDOFF BRACKET

ENGINEER	*	A. Habit
/O" :	C 69891	OF CALIFOR
BECISIES	*	

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ISSUE STATUS	DESCRIPTION	TD 90%
ISSUE	DATE	A1/80/20

GROUND LEVEL O-0"

-								
טטער טואוט	DESCRIPTION	%06 CD	%00 I CD			IB/BL	T. DICARLO	
7	DATE	06/08/18	10/29/18					
	◁					DRAWN BY:	CHECKED BY:	

A-3

ELEVATIONS

10/29/18 Sheet title:

APPROVED BY: B. McCOMB

ROW ADJCT TO 33 PINE LN LOS ALTOS, CA 94022

BOTTOM OF (N) MACRO SHROUD ±13'-5" AGL

BOTTOM OF (N) GROUND BUS BAR ±10-11" AGL

BOTTOM OF (N) LOAD CENTER #9-6" AGL BOTTOM OF (N) METER #7-0" AGL

(N) METER

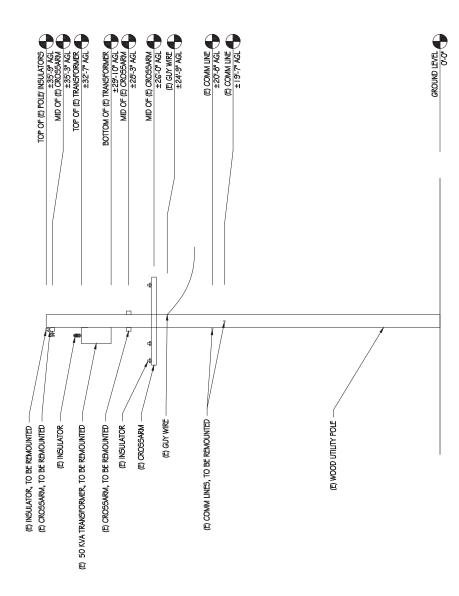
(N) GROUND BUS BAR W/ 4" PVC COVER (N) LOAD CENTER/AC DISCONNECT

(E) WOOD UTILITY POLE

NEW SOUTH ELEVATION

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN NOTE: (E) CATV TO BE MOVED OUT OF CLIMBING SPACE

EXISTING SOUTH ELEVATION



AT¢T MOBILIY 5001 EXECUTIVE PARKWAY 5AN RAMON, CA 945&3

at&t











	S.	AN_RSFR	CRAN_RSFR_LOSAO_04	
		ROW ADJCT 1 LOS ALTOS	ROW ADJCT TO 33 PINE LN LOS ALTOS, CA 94022	
,				
		ISSUE (ISSUE STATUS	
	⊲	DATE	DESCRIPTION	
		06/08/18	CD 90%	
		10/29/18	CD 100%	
	DRAWN BY:		IB/BL	
	CHECKED BY:		T. DICARLO	
	APPRO	APPROVED BY: E	B. McCOMB	
	DATE:	_	10/29/18	
		SHEET	SHEET TITLE:	
				_

TOP OF (N) AT\$! ANTENNA ±48'-5" AG. EA7-4" AG. EOTTOM OF (N) AT\$! ANTENNA ±46-4" AG.	TOP OF (N) RF SIGNAGE # ±43-0* AGL	MID OF (E) CROSGARM #33-CF AG. TOP OF (E) TRANSFORMER	±31-10* A6L	TOP OF (N) WEATHERIEM ± 23-3* AGI.	MAX HEIGHT OF (N) JPAX STANDOFF BRACKET, # TOP OF (N) MACRO SHROUD ± 18-07-AG.	BOTTOM OF (N) MACRO SHROUD ± 13-5" AGL	BOTTOM OF (N) GROUND BUS BAR ± 10'-11' AG! BOTTOM OF (N) LOAD CENTER BOTTOM OF (N) METER ± 7-7' AG!	GROUND LEVEL O-0-0"
(N) 7" POLE EXTENSION G. POWER SAFETY ZONE FER GOSS	(N) RF SIGNAGE	(D) RELOCATED CROSSARM # INSULATORS	(I) RELOCATED 50 KVA TRANSFORMER (N) WEATHERHEAD (N) Ø2" CONDUIT FROM (N) WEATHERHEAD @ POWEK LEVEL TO (N) METER	(N) Ø3° COAX CONDUIT FROM (N) RRUS TO (N) ANTENNA (D) REMOUNTED COMM LINES # (N) CROSS ARM	(N) MACRO SHROUD CONCEALMENT BOX CONTAINING (2) (N) ATAT RRUS-32 W/Y PSU UNITS, # (2) (N) DIPLEXERS	(N) JPAK STANDOFF BRACKET (N) GROUND BUS BAR W/ 4" PVC COVER AN LAND CAPITED A CONCENSED	(N) METER (N) METER (S) WOOD UTILITY POLE	

TOP OF (I) POLE

155-3" AGI
MID OF (I) CROSSARM

155-3" AGI
TOP OF (I) TRANSFORMER

152-7" AGI

(E) CROSSARM & (E) INSULATORS TO BE REMOUNTED

(E) INSULATOR

(E) 50 KVA TRANSFORMER, TO BE REMOUNTED

(E) CROSSARM, TO BE REMOUNTED

(E) INSULATOR

(E) CROSSARM, TO BE REMOUNTED

BOTTOM OF (E) TRANSFORMER ±29-1 (P AGL MID OF (E) CROSSARM ±28-3" AGL

MID OF (E) CROSSARM ±26-0" AGL

(E) COMM LINE ±20'-8" AGL (E) COMM LINE ± 19'-7" AGL

(E) COMM LINES, TO BE REMOUNTED

NEW WEST ELEVATION 1,4*=1'-0" NOTE, ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN NOTE, (E) CAITY TO BE MOVED OUT OF CLIMBING SPACE

ELEVATIONS

A-4

EXISTING WEST ELEVATION

GROUND LEVEL O'-O"

(E) WOOD UTILITY POLE

CRAN_RSFR_LOSAO_04 DATE DESCRIPTION 06/06/18 CD 90% 10/29/18 CD 100% 36 EXECUTIVE PARK, SUITE 210 AT¥T MOBILIY 5001 EXECUTIVE PARKWAY 5AN RAMON, CA 945&3 ROW ADJCT TO 33 PINE LN LOS ALTOS, CA 94022 ISSUE STATUS CHECKED BY: T. DICARLO APPROVED BY: B. McCOMB 10/29/18 A-5 DETAILS SHEET TITLE: 图 PRECISION DESIGN at&t DRAWN BY: FRONT VIEW NOTES: I. SITE ID WILL BE SWITCH #, SITE # # SITE NAME 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT TOP VIEW - Bridgeport Aluminum Weather Head for 2" Conduit #1256 or Equiv **DIPLEXER DETAIL** (8.4") - (8.4") -DISCONNECT SIGNAGE CBC1923T-4310 <> DIPLEXER WEATHER HEAD COMMSCOPE CBC1923T-4310/ E11F13P06 COLOR: GRAY TOTAL WEIGHT: +/- 4.4 LB DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP 7 (4) SIDE VIEW SIDE VIEW TOP VIEW OUTSIDE PANEL DOOR — SHOWING DISCONNECT SWITCH ID ON 2"XG" PLAQUE INSIDE PANEL DOOR -SHOWING SHUT-DOWN PROTOCOLS PG4E PAD LOCK RRUS-11 DETAIL 55 LBS 19.7" TALL X17" WIDE X 7.2" DEEP ERICSSON RRUS-11 - 7/6° NYJON G/G ALL-THREAD W/ DOUBLE NUTS 4 WASHERS @ BUS BAR AND COVER " PVC SLEEVE OVER 7/6" NYLON BOLT CUT AS NEEDED IN FIELD 4" PVC BUS BAR COVER BUS BAR COVER FRONT VIEW (C) BUS BAR TOTAL WEIGHT: DIMENSIONS: LOAD CENTER/AC DISCONNECT FRONT VIEW FRONT VIEW TOP VIEW (TOP VIEW RRUS-4415 DETAIL -13.40"-- 8.88" **ERICSSON RRUS-4415** UNDER 46 LB5 16.5" X 13.4" X 5.9" GROUNDING INTERFACE SCHNEIDER ELECTRIC QOG I 2L I OORB SIDE VIEW SIDE VIEW TOTAL WEIGHT: DIMENSIONS: AC POWER MODULE 2.72" X 10.79" X 7.09" 11.46 LBS ERICSSON PSU AC 08 2.67 5Q FT 34.2 LB5 Ø16.0" x 24.0" TALL (12) 4.3-10 FEMALE DC POWER INTERFACE AC POWER INTERFACE KMW FX-OM2LIOH2-0GT DIMENSIONS: WEIGHT: ANTENNA FRONT VIEW TOP VIEW WIND AREA: WEIGHT: DIMENSIONS: RF CONNECTORS: MICRO SHROUD CONCEALMENT COOPER B-LINE I I 4TB ELECTRICAL PANEL TO MEET COMMERCIAL PG4E REQUIREMENTS WITH TEST BYPASS FRONT VIEW TOP VIEW - 23.00" THE BRACKET IS MADE TO FIT POLES WITH DIAMETERS OF 8"-1.1". THEREFORE, DEPRIDING UPON THE ACTUAL POLE-TOP DIAMETER, TO FIT POLES OF CLASS 3 AND SMALLER, A BRACKET ADAPTER MAY BE REQUIRED. 7. ALL DETAILS SHOWN ON THIS PAGE ARE FOR REFERENCE ONLY. THE POLE-TOP EXTENSION MAD ANTINIAM MOUNTING SYSTEMS ARE PRE UTILITY COMPANY STANDARDS AND ARE SUBJECT TO CHANGEAT HITHER INSCRETION. BOTH THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEM SHALL BE INSTALLED BY THE UTILITY COMPANY. I. THIS UNIT MEETS GENERAL ORDER (G.O.) 95 REQUIREMENTS FOR STRENGTH IN CLASS 6 POLES AND THERETORE MAY BE USED TO SUPPORT EQUIPMENT ON THESE CLASSES OF POLES; BUT MAY BE USED ON LARGER CLASS POLES, BUT MAY NOT BE USED TO SUPPORT EQUIPMENT ON THEM. SIDE VIEW 6. ATTACH THE BRACKET ASSEMBLY ACROSS THE LINE DIRECTION WITH THE CROSS ARM 100 AMP METER **METER DETAIL** ERICSSON MICRO SHROUD (NPN 901 08) 4. UNITS ARE SUPPLIED WITH THE WOOD BAYONET ASSEMBLED. SIDE VIEW ญี่ค POLE-TOP EXTENSION NOTES **∤16.00"** ∤ FRONT VIEW TOP VIEW ₩.j. (L) (O) 5. A POLE STEP KIT IS REQUIRED. 2. THE UNIT MAY BE GUYED.

STRUCTURAL STEEL NOTES

AL STEEL CONSTRUCTION INCLIDING FABRICATION, FRECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AJSC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.

%" X 10" BOLT AND OCKNUT (SUPPLIED)

LOWER BRACKET STEP

- ALL STRUCTURAL STEEL SHALL BE ASTM A3G UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANCE) # WT (TEE) SHAPES TO BE ASTM A392 (F_F=50,000 Ps) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS R HS9) SHALL BE ASTM A500 GRADE B (F_F=46,000 Ps)). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_F=35,000 PS)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED. ٧i
- ALL WELDING SHALL BE PERFORMED USING F70XX ELECTRODES AND SHALL CONFORM TO AISC # AMS 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. က်
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS. 4.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBEX, & SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.

r.

EXTENSION BAYONET, - 5%" SQUARE PTDF BRACKET ASSEMBLY

- THREADED RODS SHALL BE ASTIM FS93 CW 304/316 STAINLESS STEEL. BOLITED CONNECTIONS SHALL BE BEARING TIME. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLIS. ė
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. UDES STANDARD ASIC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE, HOLES FOR ANCHOR BOLTS IN BOARD ASIC FACE ANY DE ASIC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDRID THE WHITE ANY DE ASIC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDRIED THE WASTER. ۲.
- ALL SHOF FABRICATED SITEL STRUCTURAL MIAMBERS FOR EXTEXIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM AI 23 AFTER FABRICATION & PAINTED PER CUSTOMER SFECHICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN. ø.
- al 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 drosed. 6
- AT ALL WEB STIFFENER PLATES LEAVE 3/20 (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE. <u>o</u>

4" STANDOFF SQ ALUMINUM TUBE Ø 3/4" GALVANIZED THRU BOLT, TYP

4" MIN -

POLE TOP EXTENSION ASSEMBLY

Bracket adapter (for pole tops less than Ø&")

(E) UTILITY POLE

1%;" HOLES FOR %" BOLTS

BRACKET ASSEMBLY ANTI-SPILT BOLT

P-1000 UNISTRUT AS REQUIRED PER LENGTH OF EQUIPMENT, TYP

3% ALUMINUM C-CHANNEL

TOP VIEW

4" MIN →

(E) WOOD PG¢E POLE







CRAN_RSFR_LOSAO_04

ROW ADJCT TO 33 PINE LN LOS ALTOS, CA 94022

ISSUE STATUS	DESCRIPTION	%06 CD	200 I 00%		
nesi	DATE	06/08/18	10/29/18		
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CHECKED BY: T. DICARLO APPROVED BY: B. McCOMB 图 DRAWN BY:

DETAILS SHEET TITLE:

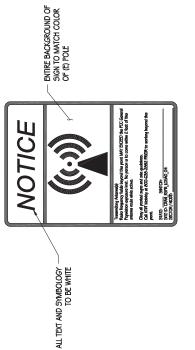
10/29/18

DATE









6X6 PTDF EXTENSION

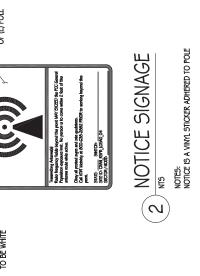
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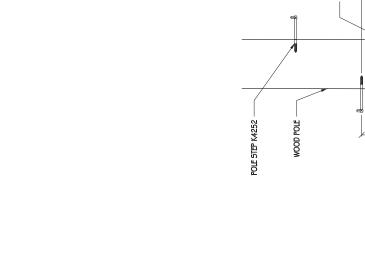
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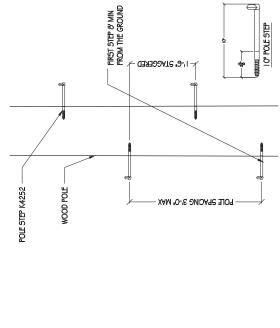
AT¥T MOBILIY 5001 EXECUTIVE PARKWAY 5AN RAMON, CA 945&3

at&t

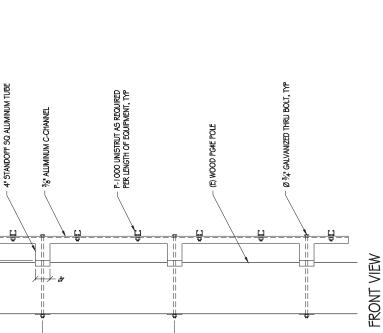








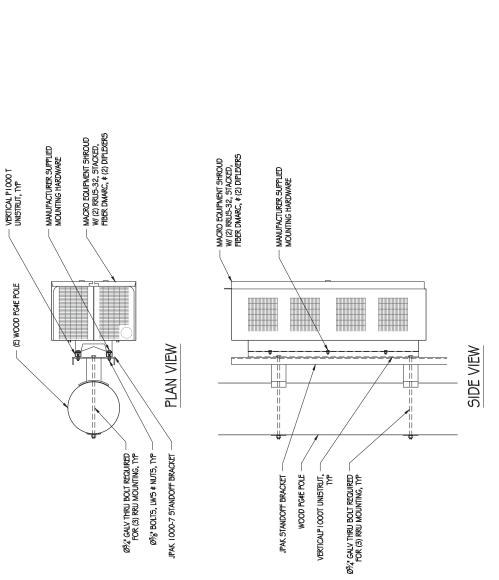






RRU MOUNTING DETAIL

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31-0" TYP

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 CALFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MASSHALL ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF INDEPRENTERS LABORATORY (UL) OR AN APPROVED TESTING LABORATORY, PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT. ĸi
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS & EQUIPMENT FOR THE ENTRE 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. ω;
- COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES
- ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE PART OF THIS CONTRACT.

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- FINALIZE ALI ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETALLS, COORDINATION OF THE INSTALLATION & PAYMENT OF ACCURED CHARGES WITH LOCAT DOWNER, OFFINATE, WITH CANCER CHARGES WITH LOCATE DOCUMENTS, WORK SHALL COMPLY WITH CONFINALION STANDARDS & SERVICE REQUIREMENTS SHOWN IN THE CONFINAL OFFINAL SHOWN IN THE CONFINAL OFFINAL DIRECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES. ف
- 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 TWA".
- PROVIDE CONDUIT SEALS FOR ALL CONDUITS FENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT. ø.
- UNIESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, SIDUAL ELEMENT FUSES SIZED TO EQUIPMENT NAMEPLATE FUSE CURRENT RATING. MOTOR STARTIERS SHALL BE PROVIDED WITH SIMILARLY SIZED FUSIBLE ELEMENTS, SWITCHES AND OTHER OUTDOOR EQUIPMENT SHALL BE RATED NEMA SR AND/OR UL LISTED FOR WET ENVIRONMENT. و.
- 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. <u>o</u>

POWER AND TELCO NOTES:

- 1. 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 WORKMATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK. ત્યં
- 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. ω;
- CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.

4.

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

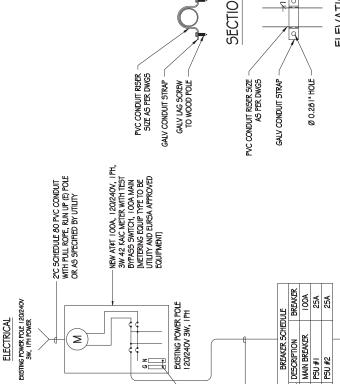
 - FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED. ø.
- MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.

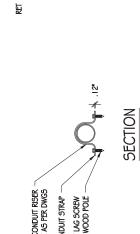
120/240V

Σ

TO TELCO SOURCE PER PLAN

ELECTRICAL EXISTING POWER POLE I 3W, IPH POWER





R POLE

EXISTING POWER I 20/240V 3W, I

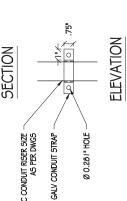
#2 AWG GROUND IN 1"— SCHEDULE 80 CONDUIT TO (N) Ø% X I O' GROUND ROD PER N.E.C. ARTICLE 250

(2) #10 AWG (MIN.) + (1) #2 AWG GND IN 2" SCHEDULE 80 CONDUIT

RE E

(2) #1 AWG (MIN), (2) #6 AWG GND IN 2" SCHEDULE 80 CONDUIT

2 5



NO. DESCRIPTION

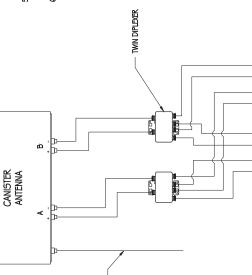
I MAIN BREAKER

2 PSU # I

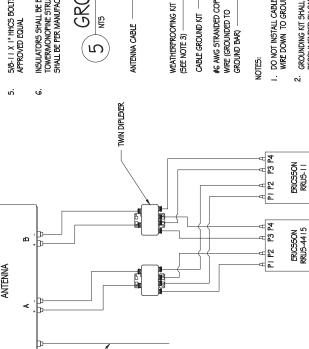
3 PSU #2

CONDUIT RISER DETAIL

SINGLE-LINE DIAGRAM



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CRAN_RSFR_LOSAO_04

ROW ADJCT TO 33 PINE LN LOS ALTOS, CA 94022

	ISSUE (ISSUE STATUS	
⊲	DATE	DESCRIPTION	
	81/80/90	‰06 a⊃	
	81/67/01	‰001 ab	
			Γ

GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

SINGLE-LINE DIAGRAM ≰ DETAILS SHEET TITLE

AT¢T MOBILIY 5001 EXECUTIVE PARKWAY 5001 RAMON, CA 945&3 at&t

> KW 0.38883 ≸

ا≼

MAX TRANSMIT POWER

388.83

< IOW PER RRU

TX/RX 21/2R

LOAD SCHEDULE

≸

≸

≸

40 LBS (MAX) 50.7 LBS

DISCONNECT ß

27.0" X 12.0" X 7.0" 12.7" X 8.9" X 4.3"

DIMENSIONS

DESCRIPTION

QUANTITY

MAKE/MODEL

ERICSSON RRUS-32 NEMA 3R ENCLOSURE TYPE NC



TYPE RR

TYPE GLUUG

TYPE XA

FINISH SURFACE COMPOUND DIRT, GRAVEL OR OTHER

(E) POLE

RESTORE SURFACE TO ORIGINAL CONDITION

GROUNDING CONDUIT OR HALF ROUND

TEST WELL WITH HAND REMOVABLE COVERED LABELED 'GROUND ROD' (G-6" PVC OR CHRISTY FI 4 BOX W/ ADAPTERS & EXTENSIONS AS REQUIRED OR EQUIV)

TEST LOOP 8" MAX BELOW GRADE

NIW "9-

(E) GRADE

EXOTHERMIC WELD DETAILS

4 SIN







GALYANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)

NOTES:

POLE GROUNDING DETAIL

2. EXPOSED CONCRETE TO HAVE BROOM FINISH

I. IF GROUND ROD IS INSTALLED ON SIDEWALK AREA, CORE DRILL SIDEWALK PRIOR TO INSTALLING INSPECTION WELL

2'-0" TYP ON EA SIDE OF POLE

TYP CADWELD

Ø%" X 10' GROUND ROD

INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL

5,6º 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

T. DICARLO CHECKED BY: B. McCOMB 10/29/18 APPROVED BY: DATE

١ L

WIRE DIAGRAM DETAIL MS m

DRAWN BY: INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWERMONOPINE STRUCTURE. CONNECTION TO TOWERMONOPINE STRUCTURE. SHALL BE FER MANUFACTURERS RECOMMENDATIONS. 2 | 1/16" DIA. MAX. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL GROUND BAR DETAIL 12" TO 24"

I. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR. #6 AWG STRANDED COPPER GROUND WIRE (GROUNDED TO GROUND BAR)

WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

GND KIT DETAIL

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SSUE STATUS	DESCRIPTION	%06 CD	‰001 ab	
ISSUE (DATE	06/08/18	10/29/18	
	\Box			

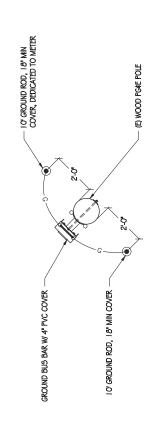
CD 90%	CD 100%			IB/BL	T. DICARLO	
81/80/90	81/67/01				LECKED BY: T	
				SAWN BY:	ECK!	

10/29/18 Sheet title:

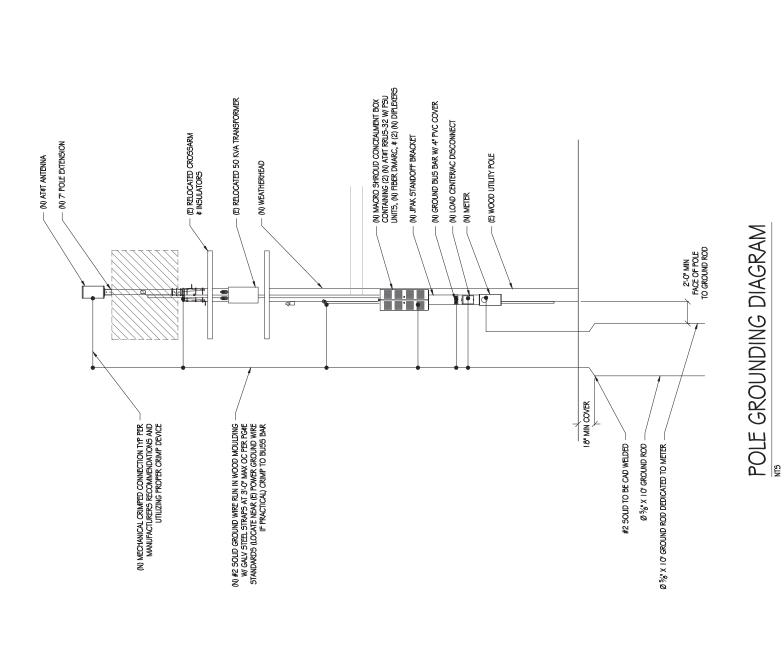
GROUNDING DIAGRAMS SHEET NUMBER

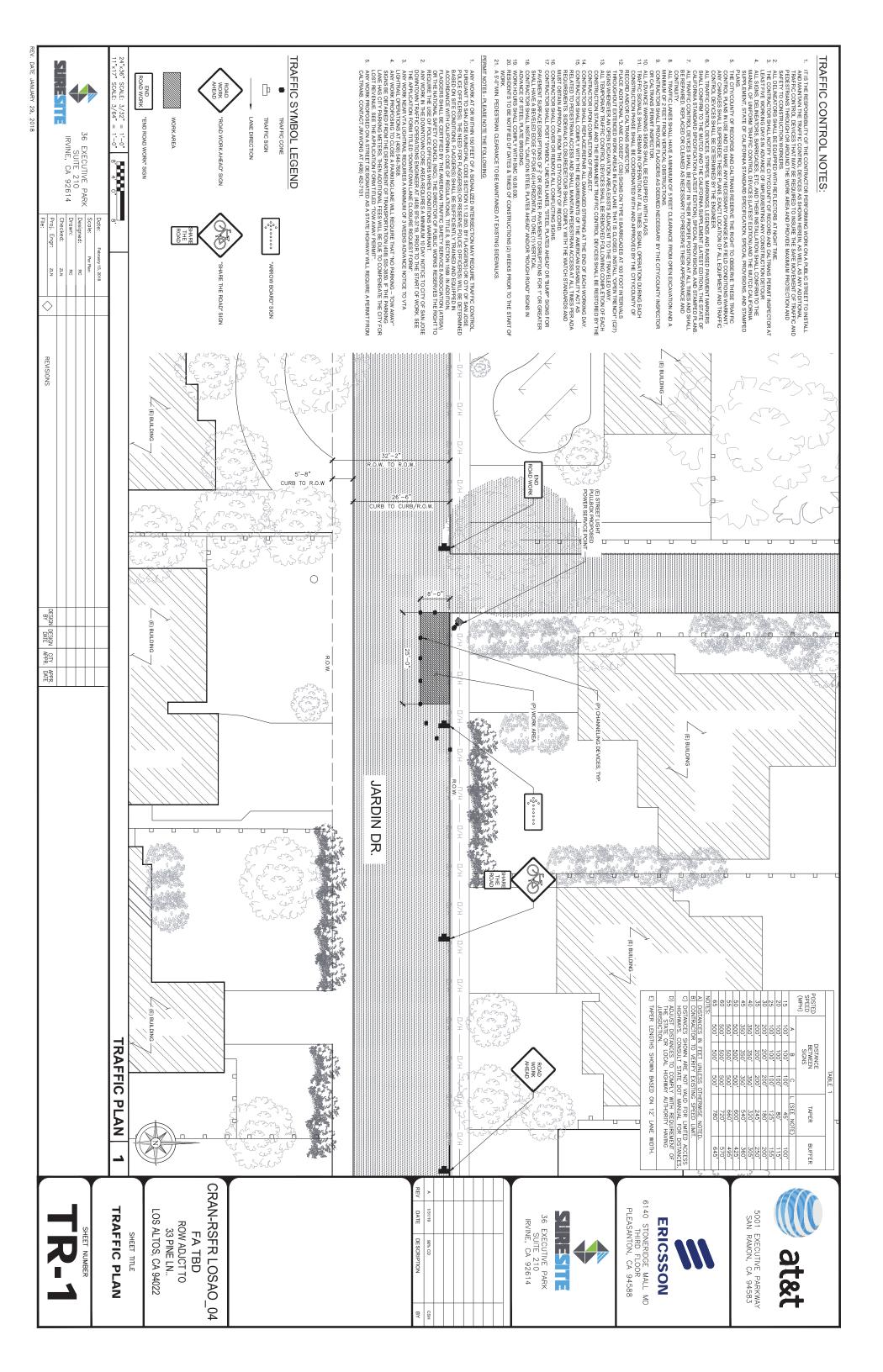
E-2

CRAN_RSFR_LOSAO_04 ROW ADJCT TO 33 PINE LN LOS ALTOS, CA 94022 | DECORPTION | DEC











SITE ID: CRAN RSFR LOSAO 04

SITE ADDRESS: 33 PINE LN

LOS ALTOS, CA, 94022

114474135 PM#:

SITE TYPE: PG&E POLE #TBD

POLE OWNER: PG&E

PROJECT TEAM

AGENT:

L.MEINERS@SURE-SITE.COM

6140 STONERIDGE MALL RD, SUITE 350

PROJECT MANAGERS:

(408) 796-8443

BRET McCOMB

(530) 823-6546

BRET@PDND.COM

DELBERT BUTCHER

(720) 317-7282

ERICSSON

O.I MI

0,2 MI

0.3 MI

213 FT

207 FT

CONSTRUCTION MANAGER:

PLEASANTON, CA 94588

6140 STONERIDGE MALL ROAD, SUITE 350

ERICSSON

FA LOCATION: 14816593

98298 USID:

SITE INFORMATION

APPLICANT: AT#T MOBILITY 5001 EXECUTIVE PARKWAY

SAN RAMON, CA 94583 SURESITE

36 EXECUTIVE PARK, SUITE 210 IRVINE, CA 92614

ADJCT TO 167-23-035

SITE ADDRESS: 33 PINE LN LOS ALTOS, CA, 94022

AGENT:

COUNTY:

SANTA CLARA

37° 23' 32.12" N (37.392256) NAD 83 LATITUDE:

LONGITUDE: 122° 06' 54.19" W (-122.115053) NAD 83

LOCAL

CODE COMPLIANCE

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

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

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

HANDICAP REQUIREMENTS

6. 2016 CALIFORNIA FIRE CODE

7. LOCAL BUILDING CODES

9. ANSI/EIA-TIA-222-G

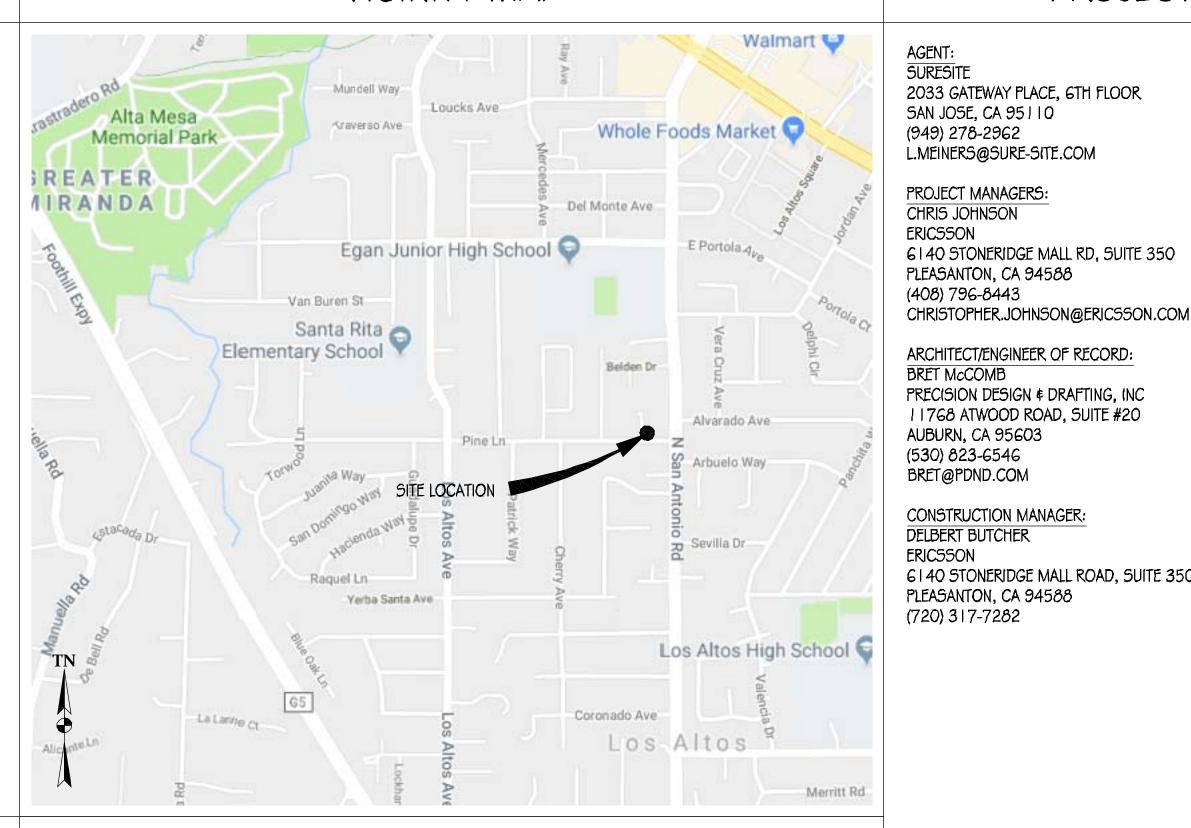
8. CITY/COUNTY ORDINANCES

GROUND ELEVATION: ±116.3' AMSL ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS PG¢E SAP ID: 100509246

STREET CLASSIFICATION:

VICINITY MAP



DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

500 I EXECUTIVE PARKWAY, SAN RAMON, CA 94583 33 PINE LANE, LOS ALTOS, CA 94022

17. TURN RIGHT ONTO MARICH WAY

18. TURN LEFT ONTO PANCHILA WAY

21. TURN RIGHT ONTO PINE LN

19. TURN RIGHT ONTO ALVARADO AVE

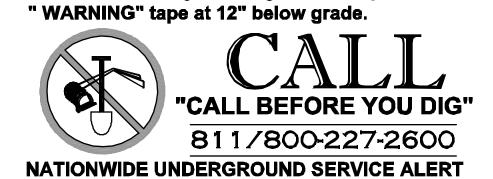
20. TURN LEFT ONTO N SAN ANTONIO RD

33 PINE LANE, LOS ALTOS, CA 94022

ESTIMATED TIME: 18 MINS ESTIMATED DISTANCE: 10 MI

1.	HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR	256	FT
2.	TURN RIGHT ONTO SUNSET DR	Q. I	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 1-680 S	3. 9	MI
6.	STAY ON I-680 5, FOLLOW SIGNS FOR I-580	17 <i>.</i> 5	MI
7.	TAKE EXIT 12 FOR MISSION BLVD TOWARD 1-880	0.2	MI
ð.	KEEP RIGHT AT FORK, FOLLOW SIGNS FOR CA-262 S/ MISSION BLVD	0.3	MI
9.	MERGE ONTO CA-262 S/ MISSION BLVD	0.6	MI
10.	TAKE EXIT ON LEFT TOWARD I-880 S/ SAN JOSE	0.9	MI
11.	MERGE ONTO 1-880 5	3.1	MI
12.	TAKE CA-237 W EXIT TOWARD MTN VIEW	0.9	MI
13.	CONTINUE ON CA-237 W	8.4	MI
14.	KEEP LEFT TO CONTINUE ON CA-237 W/ SOUTHBAY FWY	0.5	MI
15.	TURN RIGHT ONTO EL CAMINO REAL	2.0	MI
16.	TURN RIGHT ONTO DISTEL DR	2.0	MI

At all services & grounding trenches, provide



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.

- I. INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) 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-4415 \$ (1) RRUS-11 W/ PSU UNITS, (2) DIPLEXERS, \$ (1) KMW FX-OM2L10H2-06T CYLINDRICAL ANTENNA.
- 2. ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL

SHEET NO: SHEET TITLE

TITLE SHEET

GENERAL NOTES, LEGEND, & ABBREVIATIONS

SITE PLAN A-1

EQUIPMENT PLAN & ANTENNA PLANS

ELEVATIONS ELEVATIONS

DETAILS

DETAILS

SINGLE-LINE DIAGRAM & DETAILS

GROUNDING DIAGRAMS

SCOPE OF WORK:

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

CRAN RSFR LOSAO 04

33 PINE LN LOS ALTOS, CA 94022

ISSUE STATUS					
7	DATE	DESCRIPTION			
	06/08/18	CD 90%			
	07/25/19	CD 100%			

DRAWN BY: T.J. / B.L. CHECKED BY: T. DiCARLO APPROVED BY: B. McCOMB

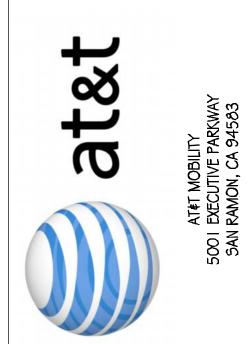
TITLE SHEET

SHEET TITLE:

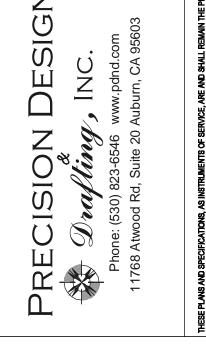
07/25/19

SHEET NUMBER

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









GENERAL CONSTRUCTION NOTES

- 1. 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.
- 2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.

3. 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.

- 4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE,
- 5. 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.
- 6. 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 CARJOUS 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.
- 7. 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.

8. 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 PREFORMED 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 (QSHA) REQUIREMENTS.
- 14. INCLUDE MISC ITEMS PER AT T WIRELESS SPECIFICATIONS.

SYMBOLS LEGEND

- 15. ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHTUDOWN SIGNAGE) 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.
- 16, FONDATED RF WAC MARNING 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 IMESA BROWN! USING A DURABLE OUTDOOR PAINT.

GROUT OR PLASTER

(E) BRICK

(E) MASONRY

CONCRETE

EARTH

PLYWOOD

SAND

STEEL

CENTERLINE

MATCH LINE

WORK POINT

WOOD CONT.

WOOD BLOCKING

PROPERTY/LEASE LINE

GROUND CONDUCTOR

OVERHEAD SERVICE

CHAIN LINK FENCING

OVERHEAD TELEPHONE/OVERHEAD

OVERHEAD TELEPHONE LINE

Overhead power line

POWER RUN

——OHT/OHP——

——— OHT ———

—— P ——

—— C□AX —— CDAXIAL CABLE

- 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.

NEW ANTENNA

GROUND ROD

EXISTING ANTENNA

GROUND BUSS BAR

MECHANICAL GRND. CONN.

GROUND ACCESS WELL

ELECTRIC BOX

TELEPHONE BOX

FND. MONUMENT

SPOT ELEVATION

GRID REFERENCE

DETAIL REFERENCE

ELEVATION REFERENCE

SECTION REFERENCE

SET POINT

REVISION

LIGHT POLE

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 TI 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 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

5/8" X 10'-0" ,CU. GND ROD IN TEST WELL 18" MIN.

BELOW GRADE.

CHEMICAL GROUND ROD (XIT GROUND ROD)

CADWELD CONNECTION

MECHANICAL CONNECTION

HALO GROUND CONNECTION

CIRCUIT BREAKER

UTILITY METER BASE

STEP-DOWN TRANSFORMER

RECEPTACLE, 2P-3W-125V-15A, DUPLEX,

TOGGLE SWITCH, IP-125V-15A,

HUBBELL CATALOG #HBL 1201CN

(N) POLE MOUNTED XFMER

(E) POLE MOUNTED XFMR

(N) PAD MOUNTED XFMER

(E) PAD MOUNTED XFMER

TOGGLE SWITCH, IP-120V-15A, "WP"

IONIZATION SMOKE DETECTOR WALARM HORN \$

AUXILIARY CONTACT, 120 VAC, GENTEX PART NO.

GROUND TYPE, HUBBELL CATALOG #5362

TRANSFORMER

POLE

- -IEEE CG2.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
- TIA GO7 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELCORDIA GR-G3 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
- ANY AND ALL OTHER LOCAL \$ STATE LAWS AND REGULATIONS

----- T ----- TELCO RUN

——— P/T ——— POWER/TELCO RUN

----- G ----- GROUNDING CONDUCTOR

——— — — GROUNDING CONDUCTOR

— — CONDUIT UNDERGROUND

FUSE, SIZE AND TYPE AS INDICATED.

NEMA 3R ENCLOSURE

#WSW232T

ENCLOSURE, SQ D CATALOG NO. H222NRB

SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R

MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE,

LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W,

SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG

LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/95W,

SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG

LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL

EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG

LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL

5/8" X 10'-0" , CU. GND ROD 18" MIN. BELOW GRADE.

LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336

EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING,

MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307

OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121

W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB

COMBINATION, EXIT SIGN & EMERGENCY LIGHTING,

LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL

MOUNTING TYPE, HUBBELL LIGHTING CATALOG

HUBBELL LIGHTING CATALOG #PRC

#HE6-50-2-R91

#BRH-100-06-1

LIGHTING CATALOG #QL-505

TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

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 I" 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 18' FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BALANCE
- WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE RING.

GENERAL GROUNDING NOTES

- 5/8° × 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 PBMD 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" 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 CAB;LE 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

HEADER HANGER

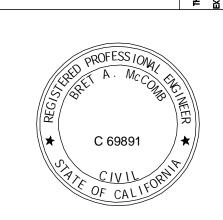
HPS

HIGH PRESSURE SODIUM

A	AMPERE	нт	HEIGHT
AB	ANCHOR BOLT	ICGB	ISOLATED COPPER GROUND BUSS
ABV	ABOVE	<u>in,</u> (")	INCH(ES)
ACCA ADD'L	Antenna Cable Cover Assembly Additional	INT LB, (#)	INTERIOR POUND(S)
AFF	ABOVE FINISHED FLOOR	LAG	LAG BOLTS
AFG	ABOVE FINISHED GRADE	ĹF	Linear Feet (Foot)
AIC ALLINA	AMPERE INTERRUPTING CAPACITY	ĻТH	LENGTH
alum alt	ALUMINUM ALTERNATE	L 1 1 95	LONG(ITUDINAL) LOW PRESGURE SODIUM
ANT	ANTENNA	MAS	MASONRY
APPROX	approximate(ly)	MAX	MAXIMUM
ARCH	ARCHITECT(URAL)	MB	MACHINE BOLT
at Awg	AMPERE TRIP AMERICAN WIRE GAUGE	MECH	MECHANICAL
BATT	BATTERY	MFR MIN	MANUFACTURER MINIMUM
3D	BOARD	MISC	MISCELLANEOUS
3LDG	BUILDING	MLO	MAIN LUGS ONLY
BLK, BLK <i>G</i>	BLOCK BLOCKING	MTD	MOUNTED
3M	BEAM	MTG MTL	MOUNTING METAL
3N	BOUNDARY NAILING	MTS	MANUAL TRANSFER SWITCH
3R	BRANCH	N	NEUTRAL
BRKR BTCW	BREAKER BARE TINNED COPPER WIRE	(N)	NEW
3TS	BASE TRANSMISSION SYSTEM	NEMA NO. (4)	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
3OF	BOTTOM OF FOOTING	NO, (#) NTS	NUMBER NOT TO SCALE
3/U	BACK-UP CABINET	OH	OVERHEAD
C CAB	CONDUIT CABINET	OC .	ON CENTER
JAD CANT	Cadinci Cantilever(ed)	OPNG P	OPENING POLE
CB C	CIRCUIT BREAKER	P/C	POLE PRECAST CONCRETE
OIP .	CAST IN PLACE	PC S	PERSONAL COMMUNICATION SERVICES
CKT	CIRCUIT	PH	PHASE
CLG CLR	CEILING CLEAR	PLY	PLYWOOD
COL	COLUMN	PNLBD PPC	PANELBOARD POWER PROTECTION CABINET
CONC	CONCRETE	PRC	PRIMARY RADIO CABINET
CONN	CONNECTION(OR)	PR/	PRIMARY
CONST CONT	CONSTRUCTION CONTINUOUS	PSF PS1	POUNDS PER SQUARE FOOT
3	PENNY (NAILS)	P91 PT	POUNDS PER SQUARE INCH PRESSURE TREATED
OBL	DOUBLE	PW R	POWER (CABINET)
DEM	DEMAND	QTY	QUANTITY
DEPT DF	DEPARTMENT DOUGLAS FIR	RAD, (R)	RADIUS
DIÁ	DIAMETER	RCPT PEE	RECEPTACLE REFERENCE
DÍÁG	DIAGONAL	ref Reinf	REFERENCE REINFORCEMENT(ING)
DIM	DIMENSION	REQ'D	REQUIRED
DWG DWL	DRAWING(5)	RG5	RIGID GALVANIZED STEEL
JWL EA	DOWEL(5) EACH	SAF	SAFETY
GR.	EMERGENCY GENERATOR RECEPTACLE	SCH SDBC	SCHEDULE SOFT DRAWN BARE COPPER
1	ELEVATION	SEC	SECONDARY
ELEC	ELECTRICAL	SHT	SHEET
élév Émt	ELEVATOR ELECTRICAL METALLIC TUBING	SIM	SIMILAR COUD NEUTRAL
EN .	EDGE NAIL	SN SPEC	SOLID NEUTRAL SPECIFICATION(S)
ENCL	ENCLOSURE	5 Q	SQUARE
ENG ENG	ENGINEER	5 5	STAINLESS STEEL
EQ EXST, (E)	EQUAL Existing	STD	STANDARD
XP (L)	EXPANSION	STL STRUC	STEEL STRUCTURAL
EXT	EXTERIOR	SURF	SURFACE
FAB	FABRICATION(OR)	S W	SWITCH
FAC F/A	FACTOR FIRE ALARM	TEL	TELEPHONE
/A 手	FINISH FLOOR	TEMP THK	TEMPORARY THICK(NESS)
=G	FINISH GRADE	TN	TOE NAIL
IN	FINISH(ED)	TOA	TOP OF ANTENNA
ZR ZUOR	FLOOR FLUORESCENT	TOC	TOP OF CURB
TUOK TDN	FOUNDATION	TOF	TOP OF FOUNDATION
FOC	FACE OF CONCRETE	TOP TOS	TOP OF PLATE (PARAPET) TOP OF STEEL
FOM .	FACE OF MASONRY	TOW	TOP OF WALL
FOS	FACE OF STUD	TYP	TYPICAL
FOW FS	FACE OF WALL FINISH SURFACE	UG	UNDER GROUND
<i>5</i> ™, ()	FOOT (FEET)	UL	UNDERWRITERS LABORATORY INC.
TG	FOOTING	UNO V	Unless noted otherwise Volt
ป	FUSE	VAC	VOLT ALTERNATING CURRENT
9 9r	GROUND CROWTH (CABINET)	VIF	VERIFY IN FIELD
эк ЭА	GROWTH (CABINET) GAUGE	W	WATT OR WIRE
GEN	GENERATOR	WD	WIDE(WIDTH)
GALV	GALVANIZE(D)	W/ W/O	WITH WITHOUT
GFCI	GROUND FÄULT CIRCUIT INTERRUPTER	wD	WOOD
gl b GND	GLUE LAMINATED BEAM GROUND	WP	WEATHERPROOF
GPS	GROUND GLOBAL POSITIONING SYSTEM	WT	WEIGHT
GRND	GROUND	XPER XPMR	Transfer Transformer
HDBC	HARD DRAWN COPPER WIRE	XIMK XLPE	CROSS-LINK POLYETHYLENE
HDG	HOT-DIP GALVANIZE(D)	C	CENTERLINE
†DR	HEADER	p	PI ATE







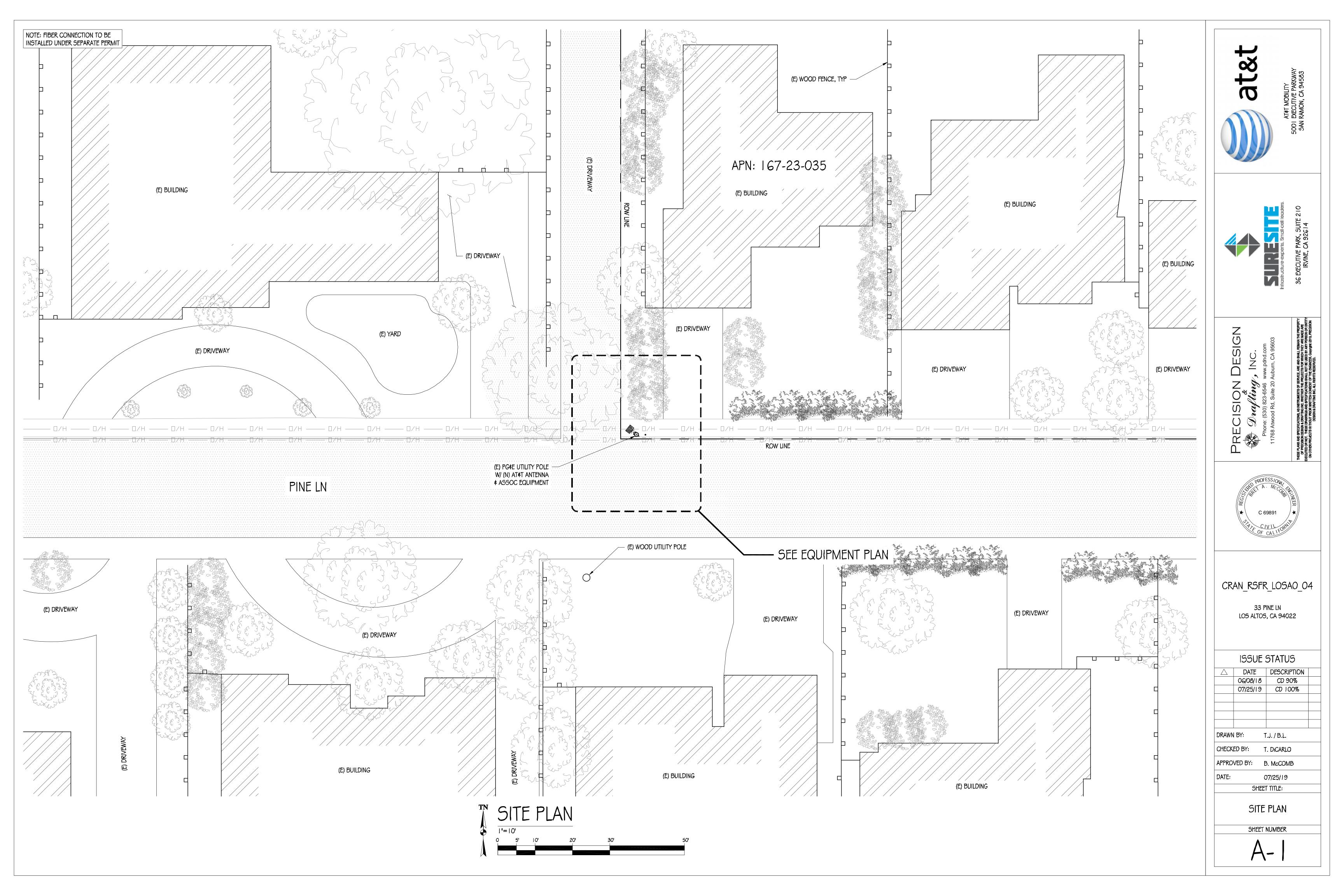
CRAN RSFR LOSAO 04

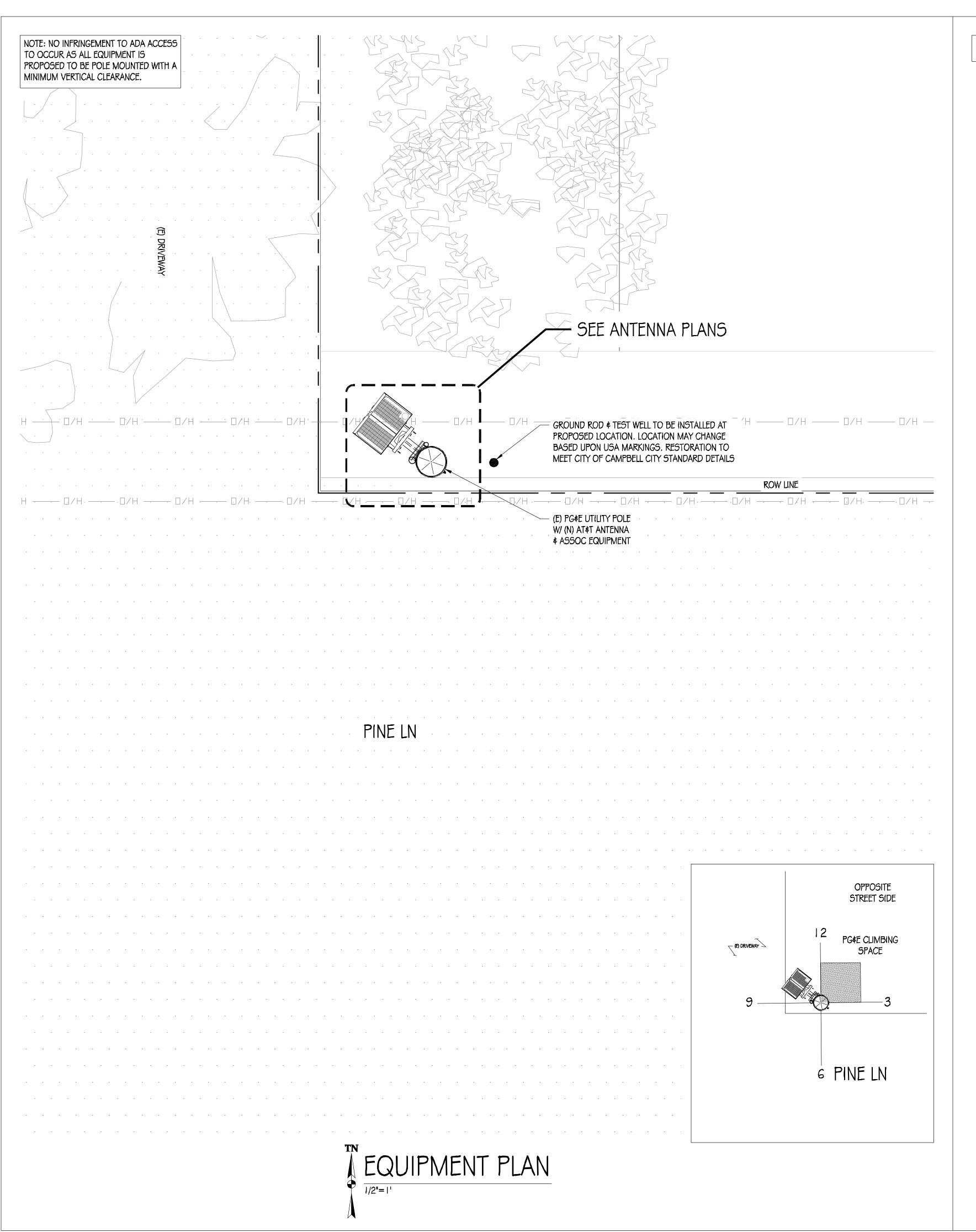
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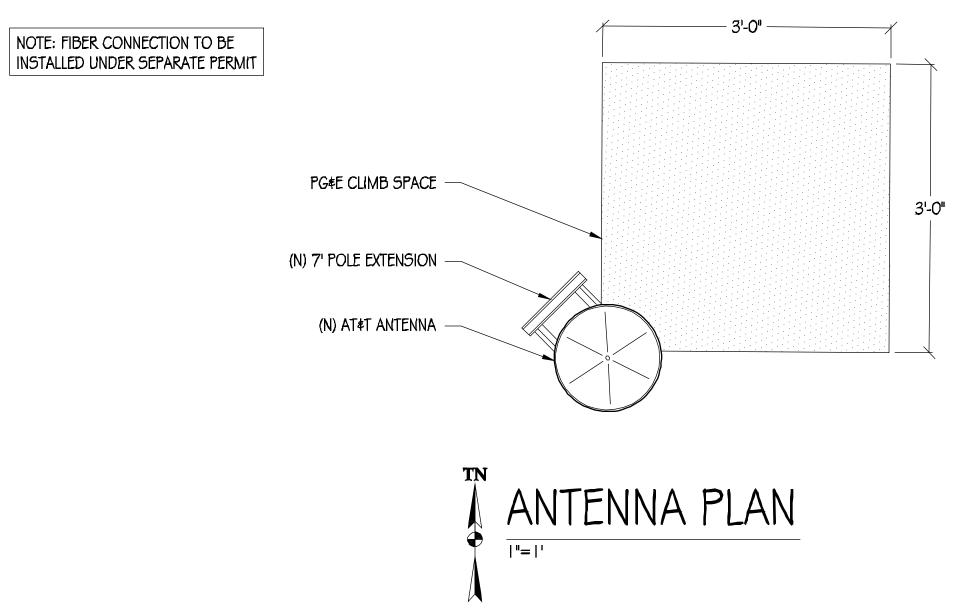
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	06/08/18	CD 90%					
	07/25/19	CD 100%					
RAWN	BY:	T.J. / B.L.					
HECK	ED BY:	T. DICARLO					
PPRO	VED BY:	В. МсСОМВ					
PATE:	(07/25/19					
	SHEE	T TITLE:					

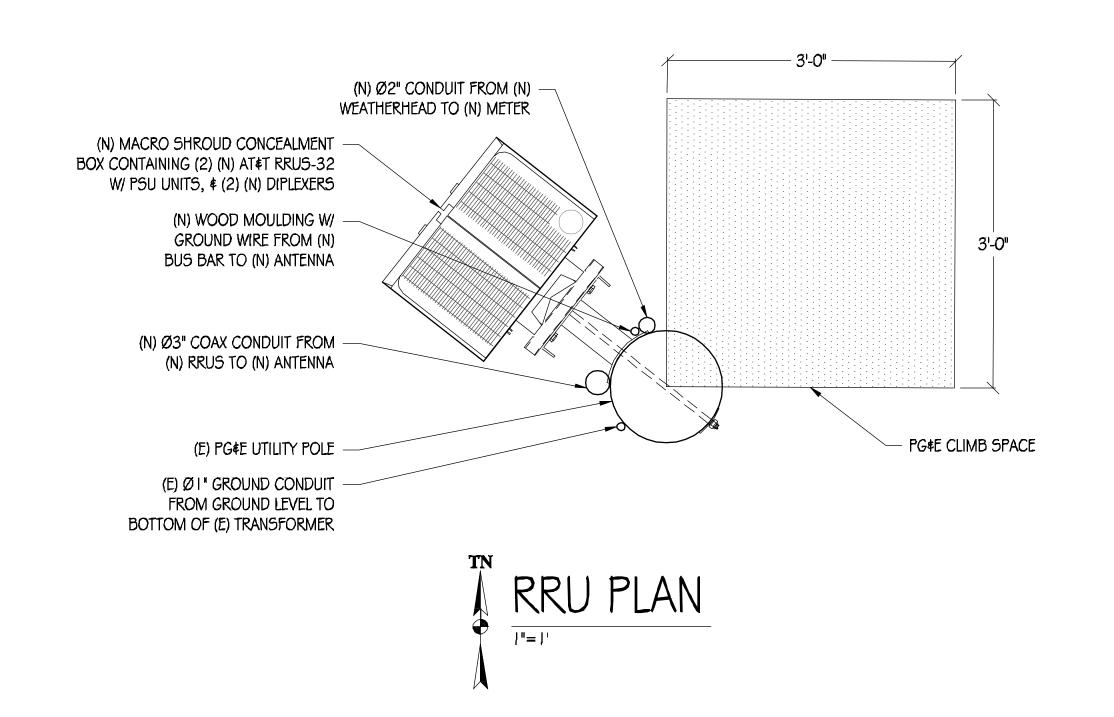
GENERAL NOTES, LEGEND. **\$ ABBREVIATIONS**

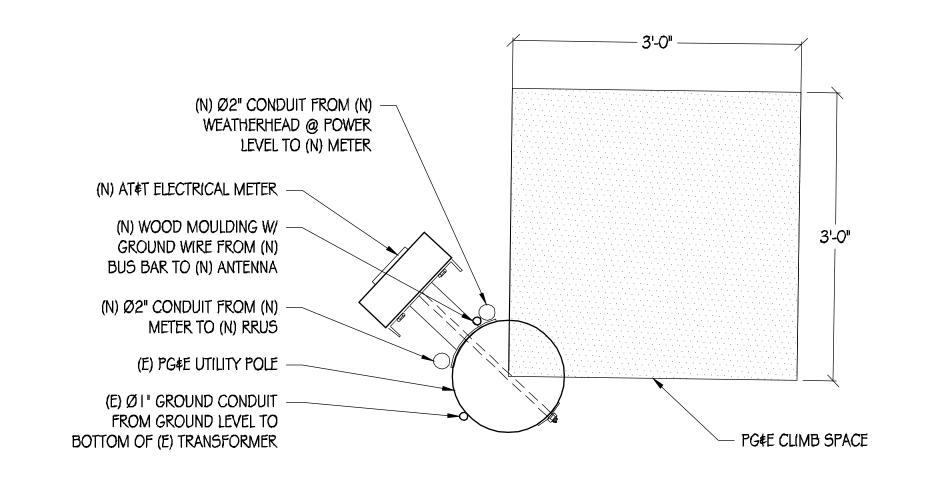
SHEET NUMBER

















THESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL RELAKIN THE PROPERTY OF PRECIDENCE AND AND SHALL RELAKING THE PROJECT SPOR WHICH PREVIOUS PRECIDENCE AND SHALL PRESENT AN



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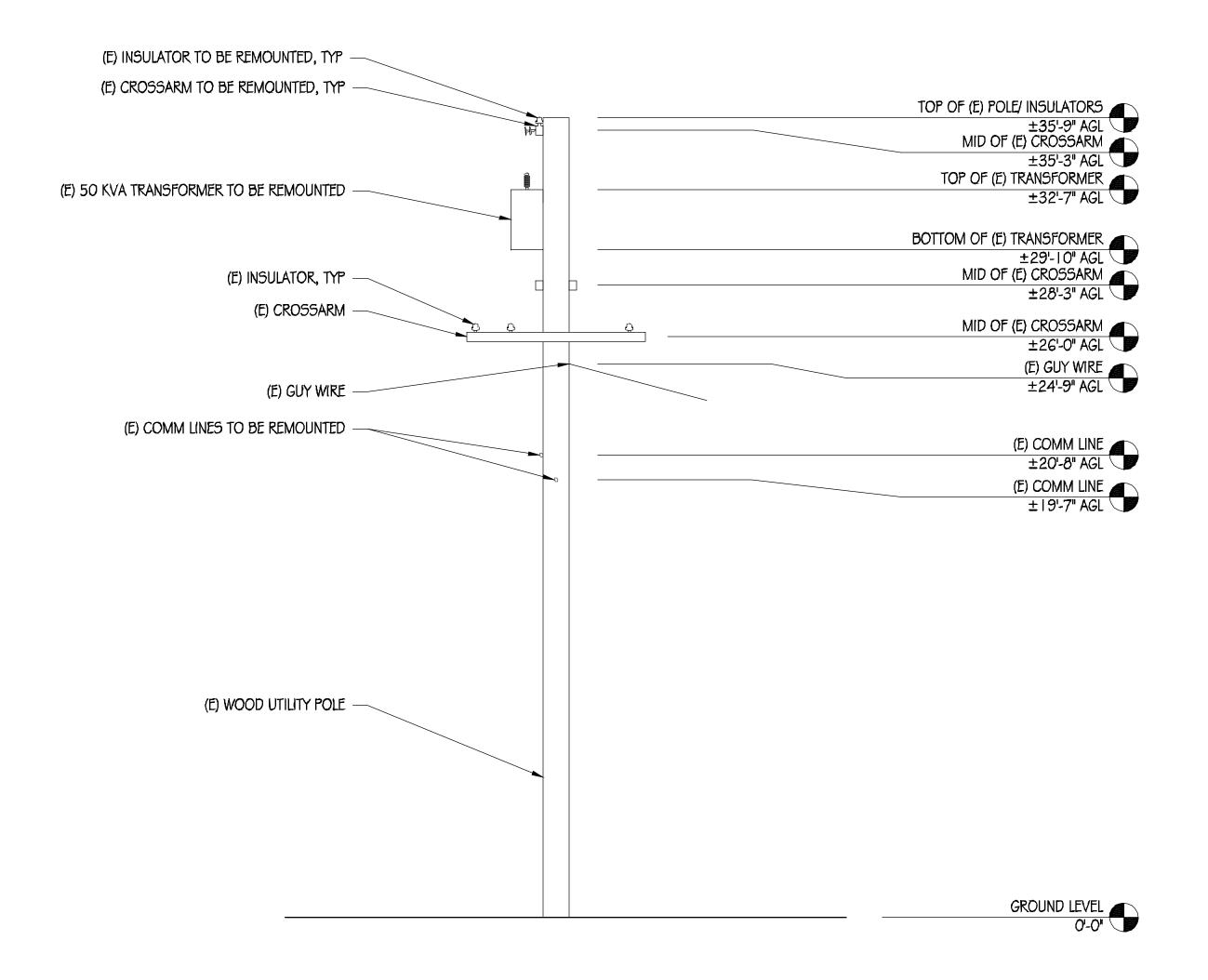
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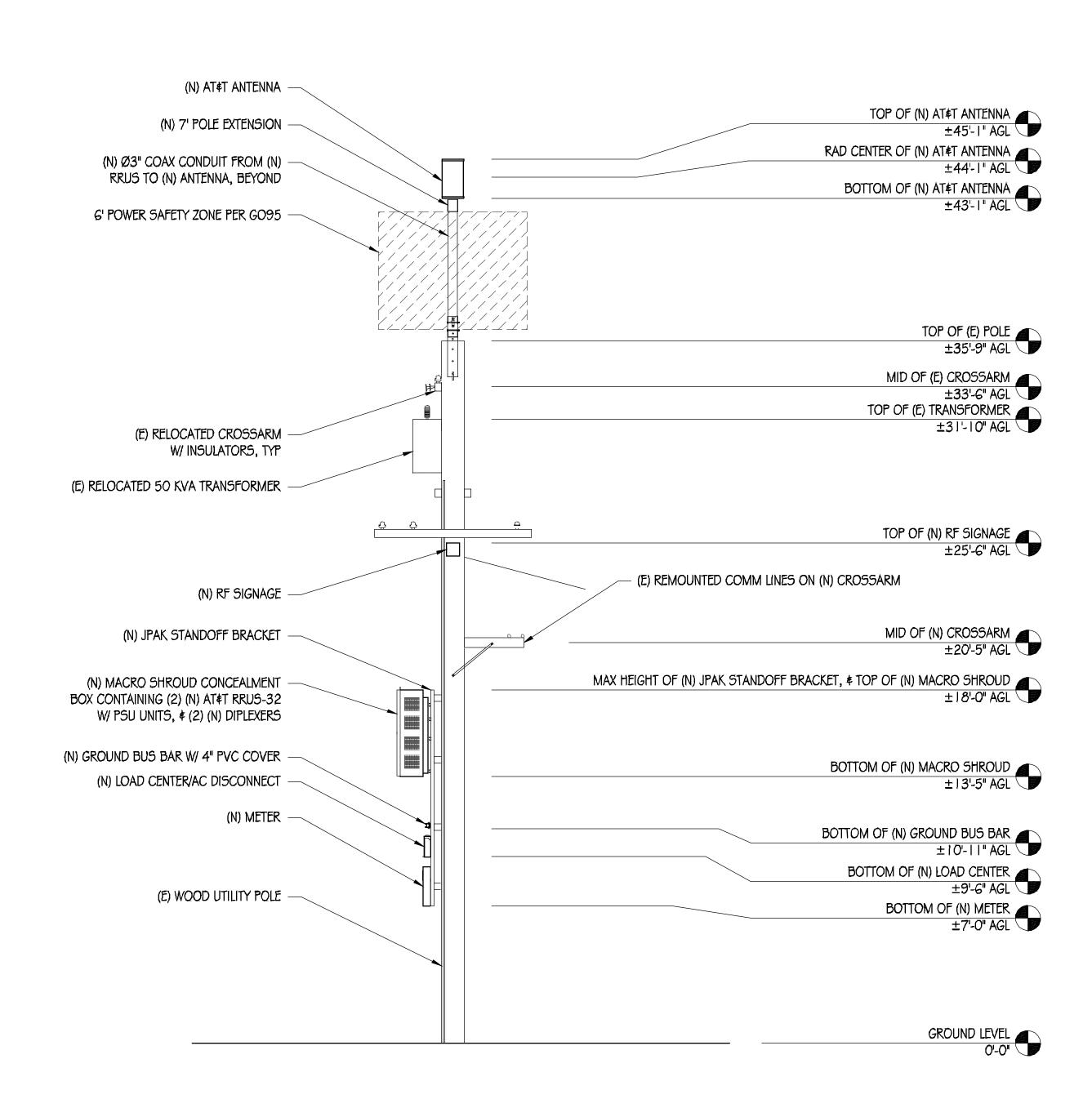
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CHECK	ED BY: 1	T. DICARLO	
APPRO	VED BY:	В. МсСОМВ	
DATE:	(07/25/19	
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EQUIPMENT PLAN \$
ANTENNA PLANS

SHEET NUMBER

A-2





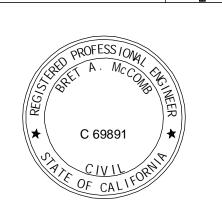
EXISTING SOUTH ELEVATION

NEW SOUTH ELEVATION





THE CISION DISCONDENSING AND SHALL REMAIN THE PROPERTY OF PRECINISM BASEN OF PRECINISM AND STEEL AND SHALL REMAIN THE PROPERTY OF PRECINISM DESIGN OF SHALL REMAIN THE PROPERTY OF PRECINISM DESIGN OF PRECINI



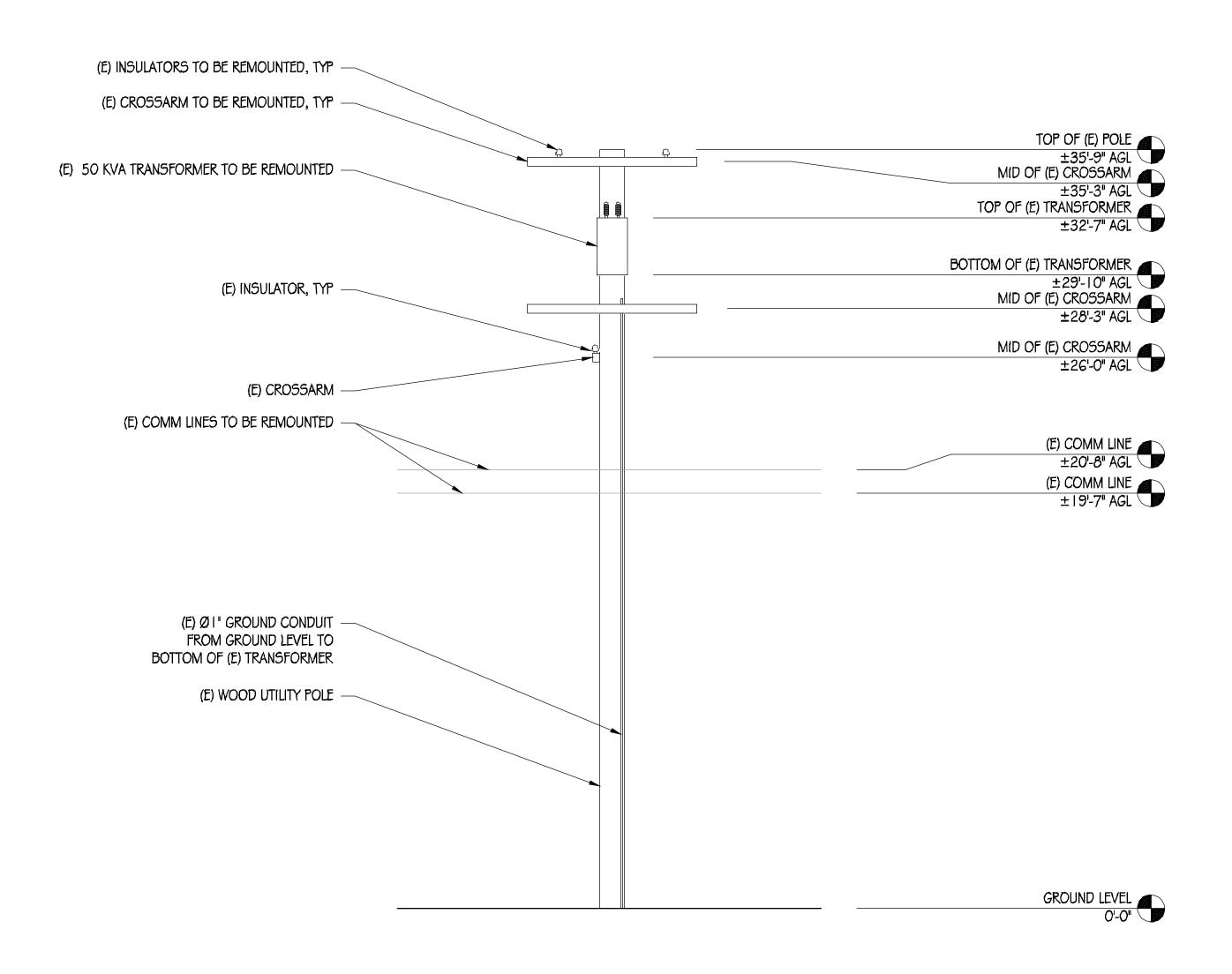
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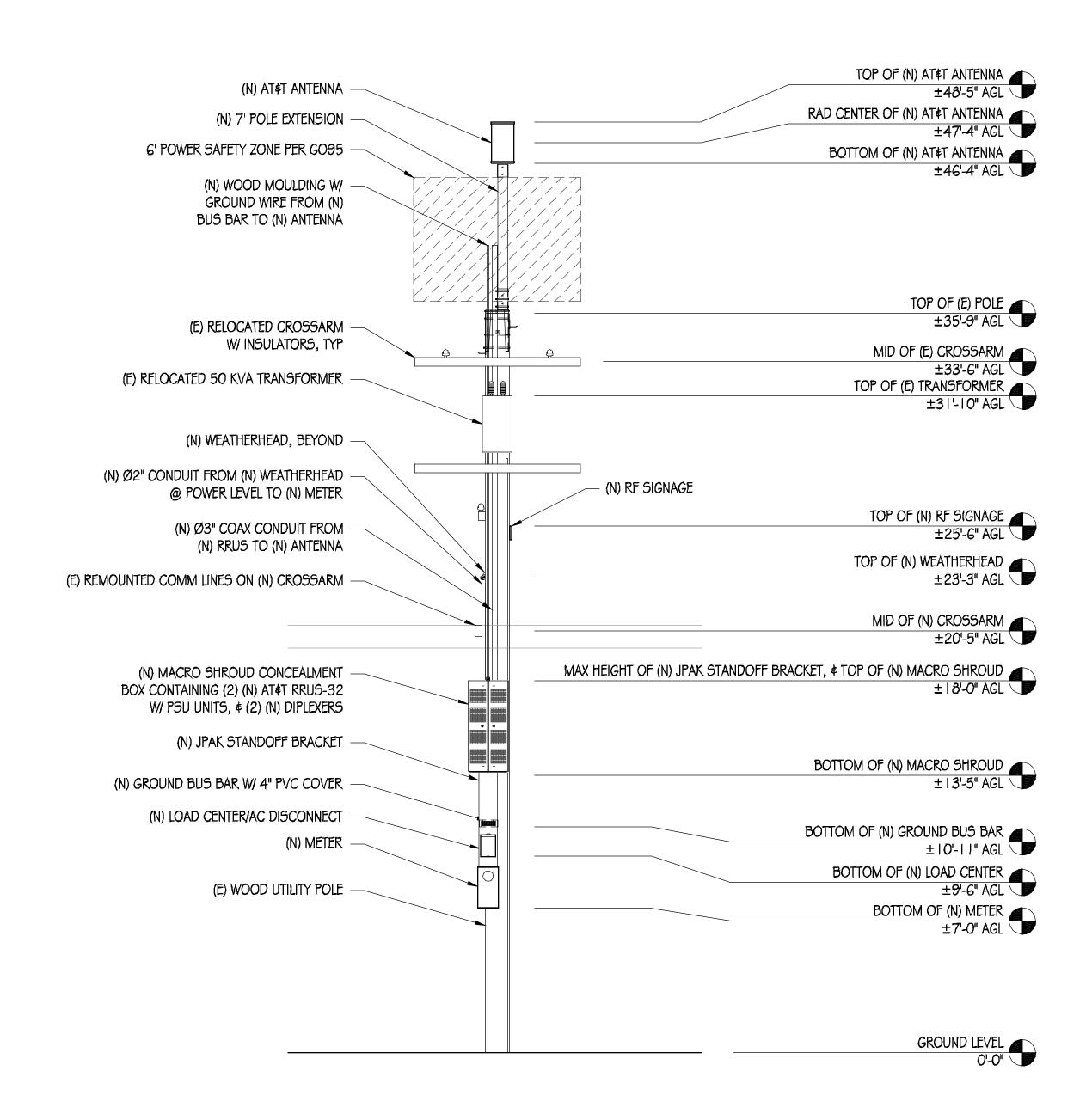
33 PINE LN LOS ALTOS, CA 94022

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ELEVATIONS

SHEET NUMBER





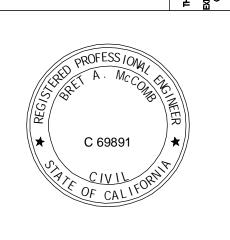
EXISTING WEST ELEVATION

1/4"=1'-0"

NEW WEST ELEVATION







CRAN_RSFR_LOSAO_04

33 PINE LN LOS ALTOS, CA 94022

ISSUE	STATUS	
DATE	DESCRIPTION	1
06/08/18	CD 90%	
07/25/19	CD 100%	
BY:	T.J. / B.L.	
ED BY:	T. DICARLO	
VED BY:	В. МсСОМВ	
	07/25/19	
SHE	ET TITLE:	
	DATE 06/08/18 07/25/19 I BY: ED BY: VED BY:	OG/08/18 CD 90% O7/25/19 CD 100% I BY: T.J. / B.L. ED BY: T. DICARLO VED BY: B. McCOMB

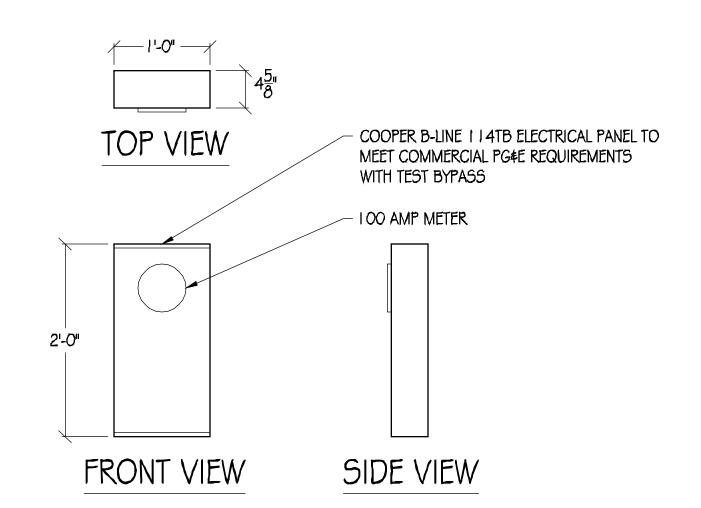
ELEVATIONS

SHEET NUMBER

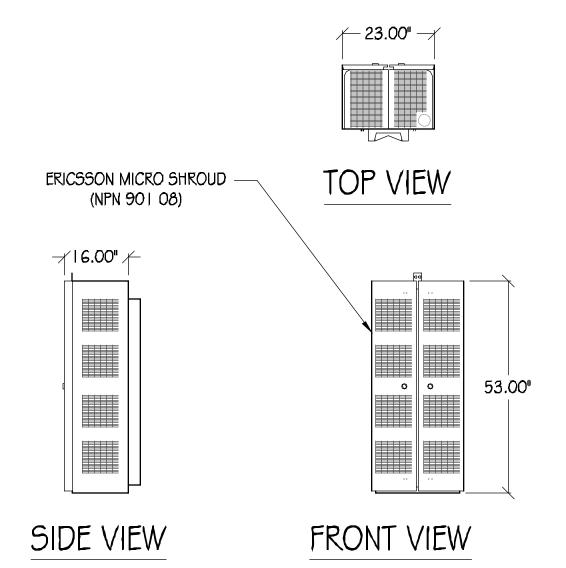
Λ /

POLE-TOP EXTENSION NOTES:

- I. 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.



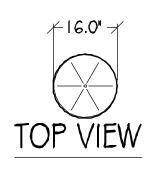


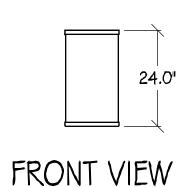




KMW FX-OM2L10H2-06T

WIND AREA: WEIGHT: **DIMENSIONS:** RF CONNECTORS: 2.67 5Q FT 34.2 LBS Ø16.0" X 24.0" TALL (12) 4.3-10 FEMALE



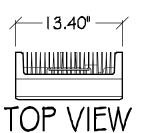


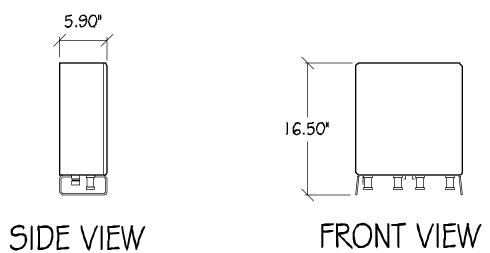


ERICSSON RRUS-4415

TOTAL WEIGHT: DIMENSIONS:

UNDER 46 LBS 16.5" X 13.4" X 5.9"





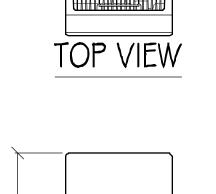
RRUS-44 | 5 DETAIL

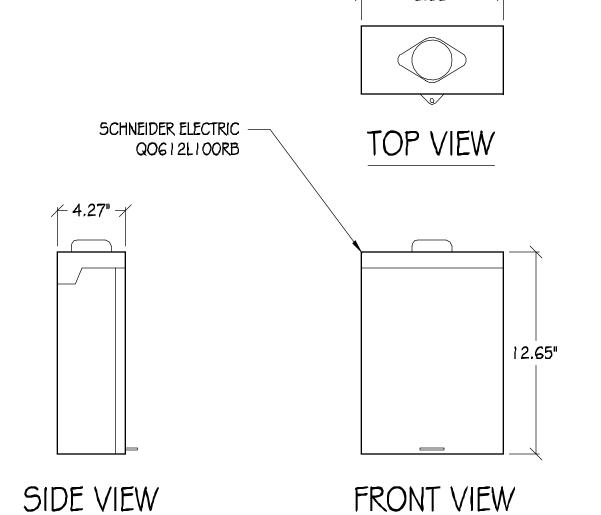
BRIDGEPORT ALUMINUM

CONDUIT #1256 OR EQUIV

WEATHER HEAD FOR 2"

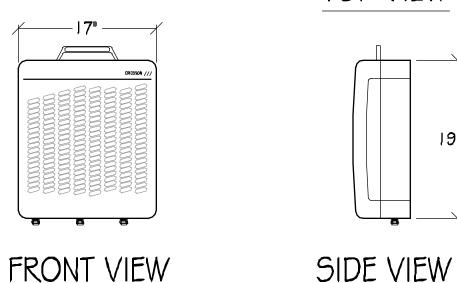
WEATHER HEAD





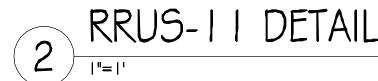
LOAD CENTER/AC DISCONNECT

COMMSCOPE ERICSSON RRUS-11 CBC1923T-4310/ E11F13P06 55 LBS



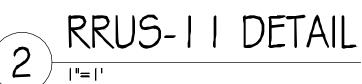
TOTAL WEIGHT:

DIMENSIONS:

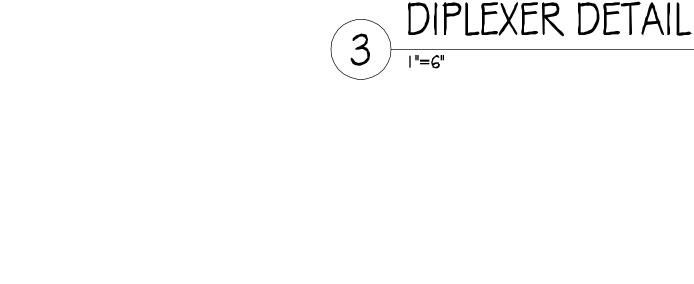


ERICSSON PSU AC 08

19.7" TALL X17" WIDE X 7.2" DEEP TOP VIEW 19.7"



SIDE VIEW



COLOR: GRAY

(1.8")

SIDE VIEW

(4,6")

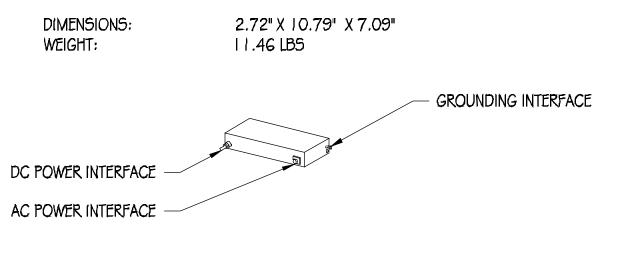
WIDE X 1.8" DEEP

TOTAL WEIGHT: +/- 4,4 LB

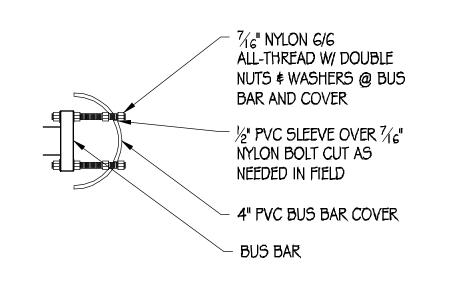
DIMENSIONS: 8.3" TALL X 4.6"

CBC1923T-4310

DIPLEXER



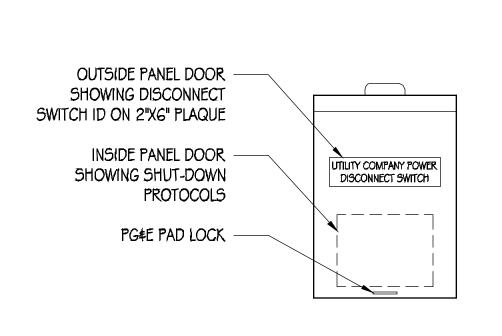




TOP VIEW

FRONT VIEW



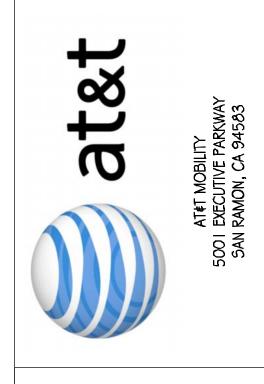


SHUTDOWN DISCONNECT NORMAL SHUT-DOWN PROTOCOLS 1, CALL (800) G38-2822 NOC 24HRS PRIOR TO SCHEDULE A SHUT-DOWN DAY AND 2, GIVE NOC THE NODE NUMBER_ 4. CALL NOC WHEN WORK IS COMPLETED EMERGENCY SHUT-DOWN PROTOCOLS 1. CALL (600) 638-2822 NOC 2, GIVE NOC THE NODE NUMBER_ 3. PULL THE DISCONNECT HANDLE TO THE 'OFF' POSITION. 4. CALL NOC WHEN THE WORK (5 COMPLETED,

SHUT-DOWN PROTOCOL ON 3"X4" LABE



I . SITE ID WILL BE SWITCH #, SITE # \$ SITE NAME 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT







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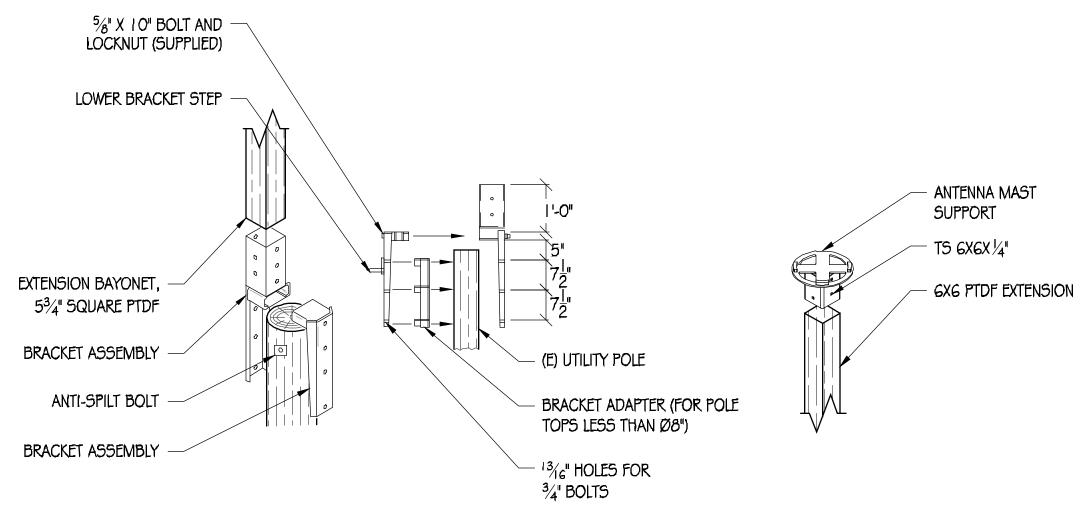
	ISSUE	STATUS	
\triangle	DATE	DESCRIPTION	
	06/08/18	CD 90%	
	07/25/19	CD 100%	
DRAWN	I BY: 1	ſ.J. / B.L.	
CHECK	ED BY: 1	T. DICARLO	
APPRO'	VED BY: E	В. МсСОМВ	
DATE:	(07/25/19	
	SHEE	T TITLE:	

DETAILS SHEET NUMBER

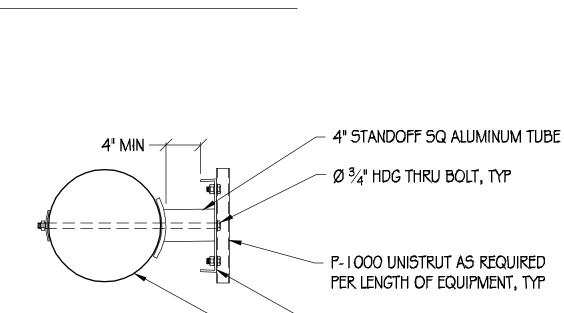
A-5

STRUCTURAL STEEL NOTES:

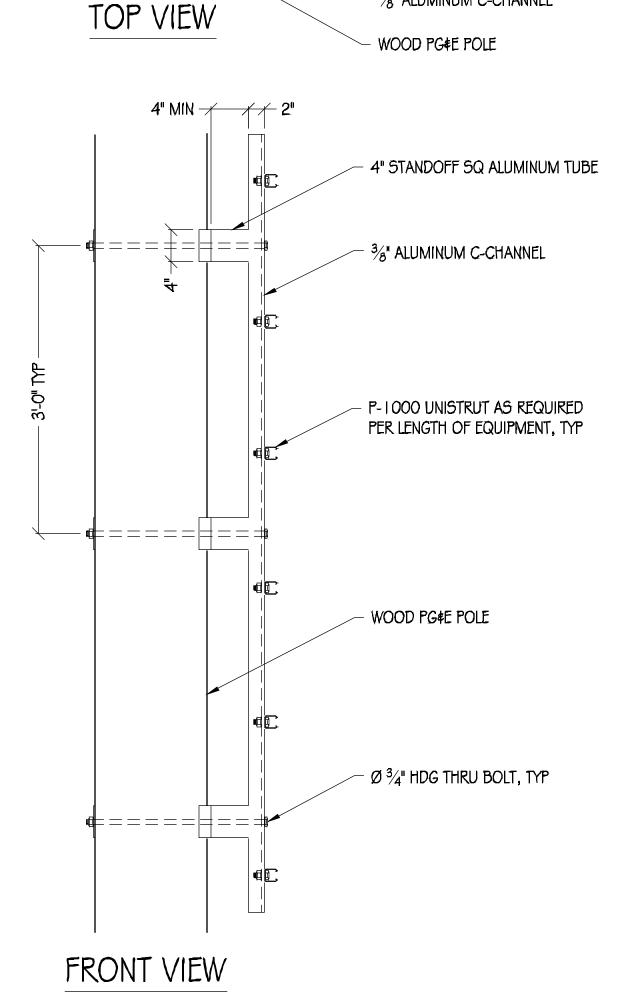
- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- 2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (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.
- 3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC \$ AWS DI.I. 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.
- 4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- 5. 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.
- 6. THREADED RODS SHALL BE ASTM F593 CW 304/3 1 6 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER. \$ SIZE OF BOLTS.
- 7. 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.
- 8. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A I 23 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.
- 9. 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.
- IO. AT ALL WEB STIFFENER PLATES LEAVE 3/4"Ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.



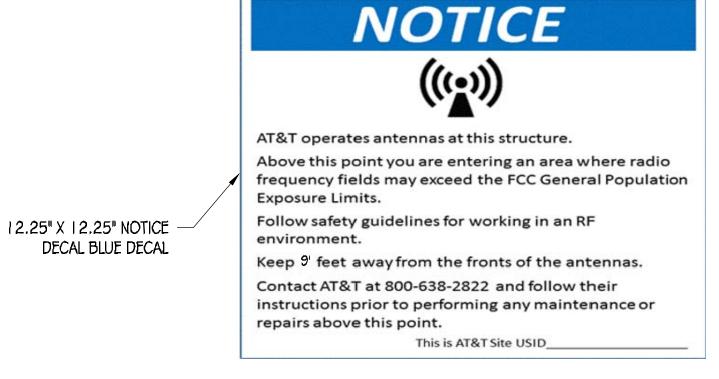




3/8" ALUMINUM C-CHANNEL



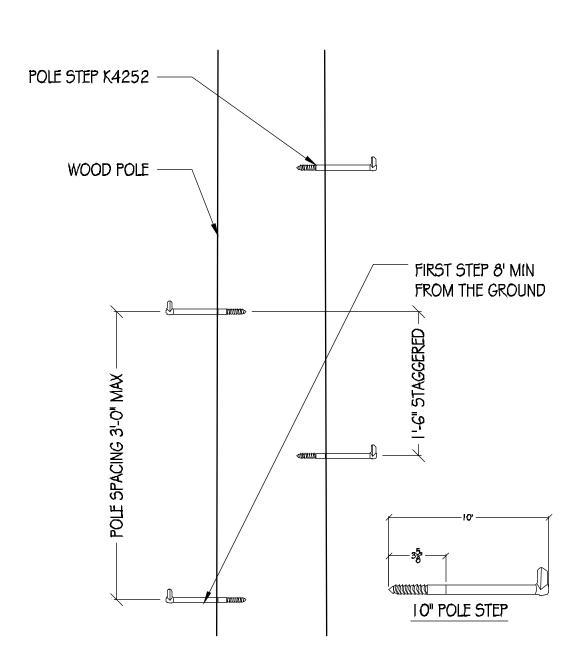


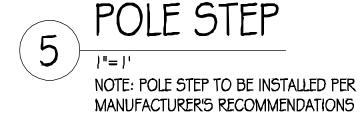


NOTICE SIGNAGE

NOTES:

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

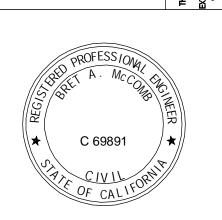








Phone: (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603
rese flans and specifications, as instruments of service, are and shall regard of precision design & drafting inc. Whether the projects for which they are made are



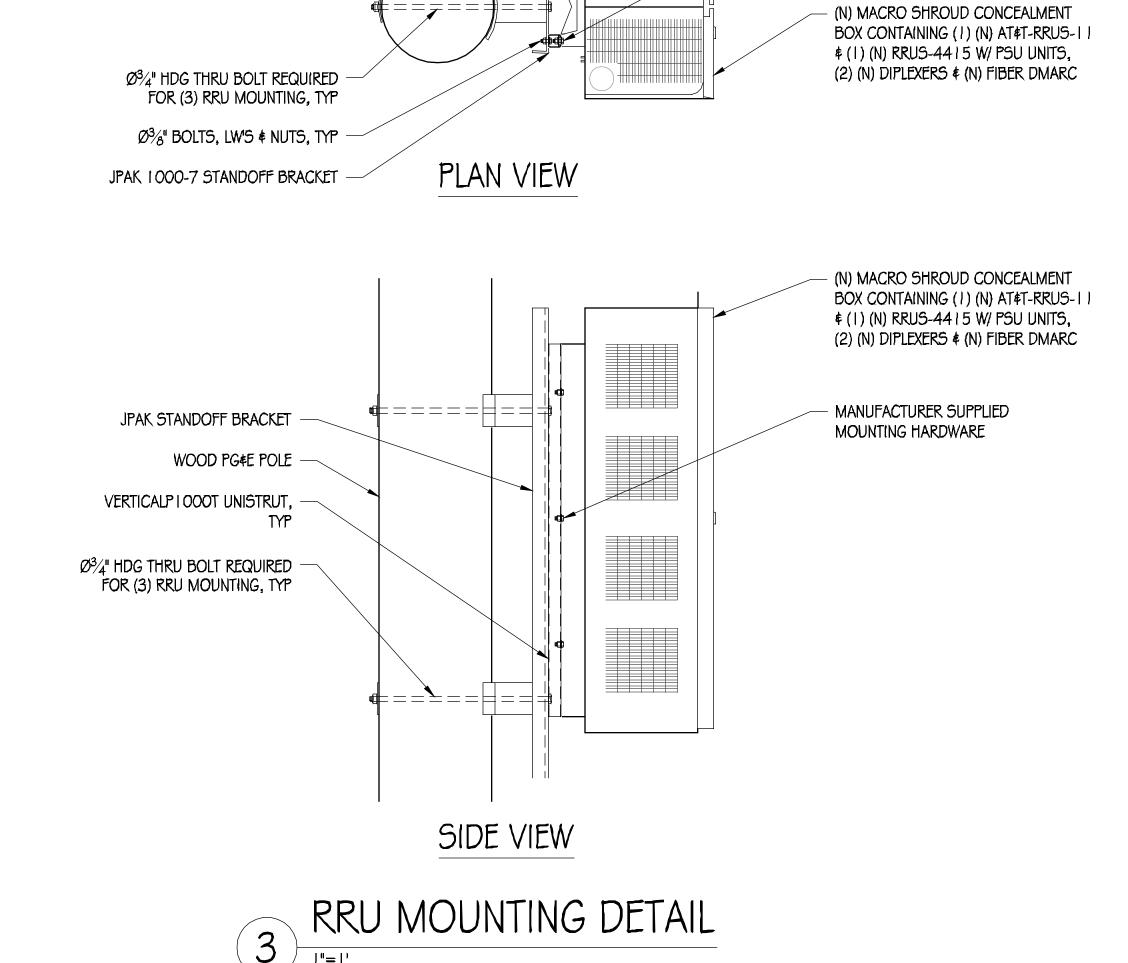
CRAN RSFR LOSAO 04

33 PINE LN LO5 ALTO5, CA 94022

	ISSUE	= 6	STATUS
\triangle	DATE		DESCRIPTION
	06/08/18	3	CD 90%
	07/25/19)	CD 100%
DRAWN	I BY:	Τ.,	J. / B.L.
CHECK	ED BY:	۲.	DICARLO
APPRO	VED BY:	В.	McCOMB
DATE:		07	7/25/19
	SH	EET	TITLE:

DETAILS
SHEET NUMBER

A-6



VERTICAL P1000 T

MANUFACTURER SUPPLIED

MOUNTING HARDWARE

UNISTRUT, TYP

GENERAL ELECTRICAL NOTES:

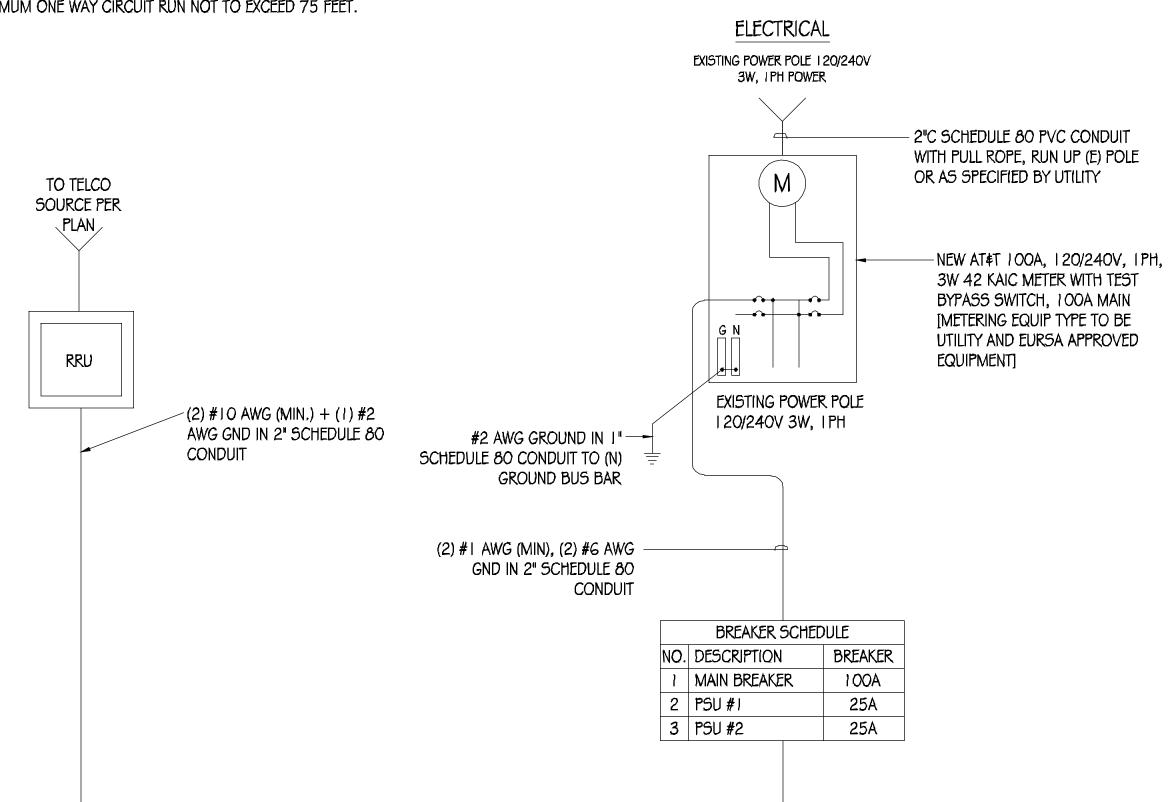
- I. PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
- 2. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE24, ALL OTHER APPLICABLE CODES 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 #G 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, SYDUAL 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.

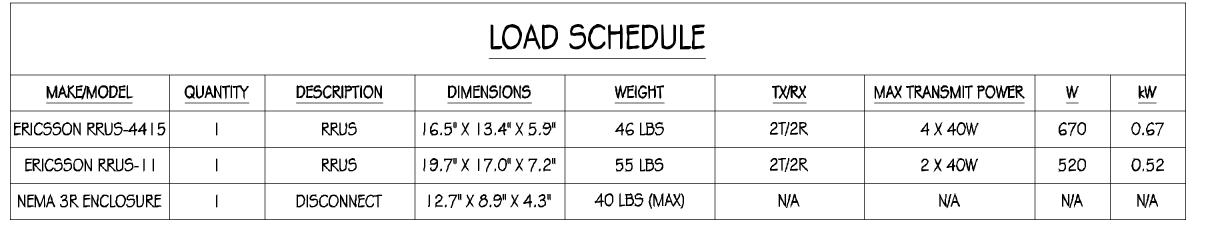
POWER AND TELCO NOTES:

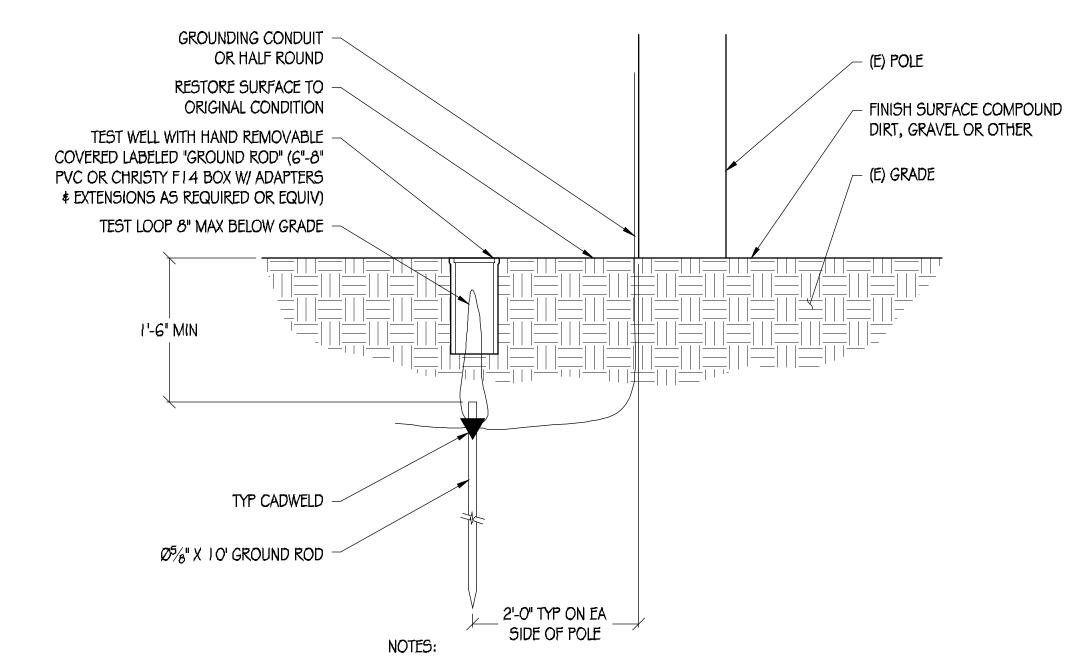
- I. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
- 2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE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

SINGLE-LINE DIAGRAM

- 8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
- 9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.





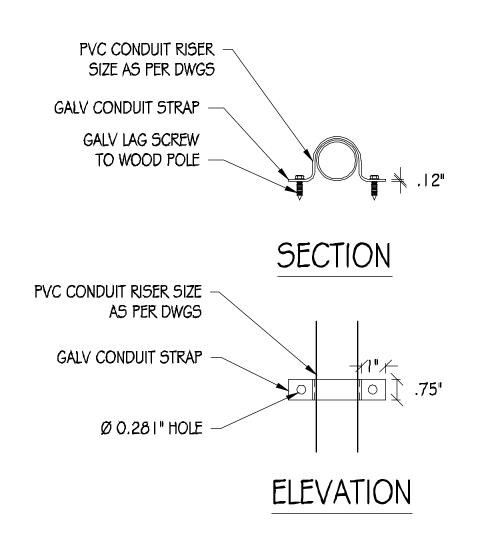


I. REMOVE & REPLACE SIDEWALK SECTION, RESTORATION TO MEET CITY STANDARD DETAILS

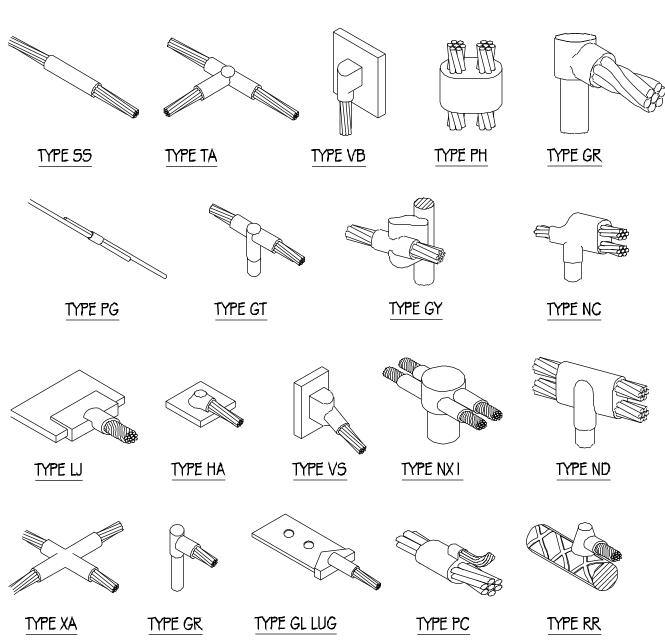
2. EXPOSED CONCRETE TO HAVE BROOM FINISH

POLE GROUNDING DETAIL

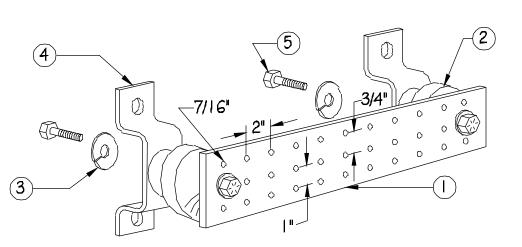
I TNT



2 CONDUIT RISER DETAIL



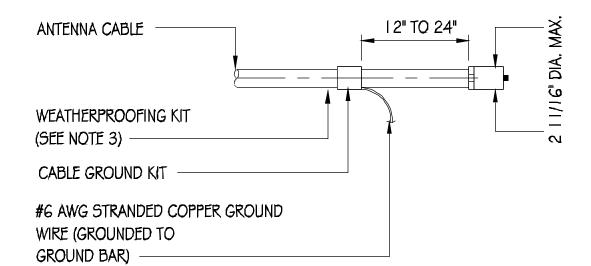
EXOTHERMIC WELD DETAILS



NOTES:

- I. 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 I" 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.





NOTES:

- I. 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.)







PRECISION DESIGN

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

THESE HANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING INC. WHETHER THE PROJECTS FOR WHICH THEY ARE MADIE AND SPECIFICATION SHALL NOT BE USED BY ANY PRESSOR OF BEAR OF A DRAFTING INC. THE PROMISES FOR WHICH THE PROMISES FOR WHICH THE PROMISES FOR TH



CRAN RSFR LOSAO 04

33 PINE LN LOS ALTOS, CA 94022

ISSUE STATUS

△ DATE DESCRIPTION

O6/08/18 CD 90%

O7/25/19 CD 100%

DRAWN BY: T.J. / B.L.

CHECKED BY: T. DiCARLO

APPROVED BY: B. McCOMB

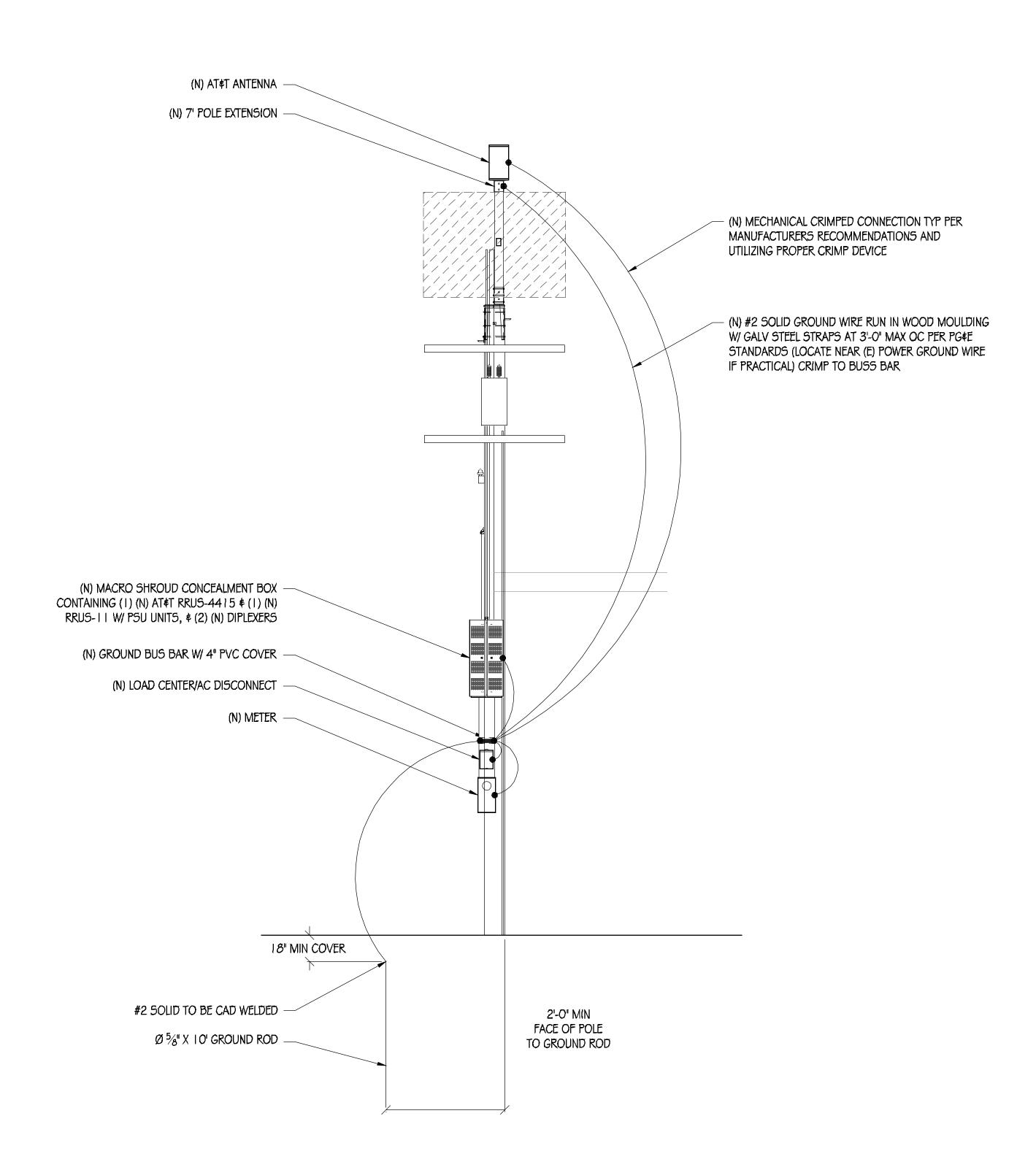
DATE: 07/25/19

SHEET TITLE:

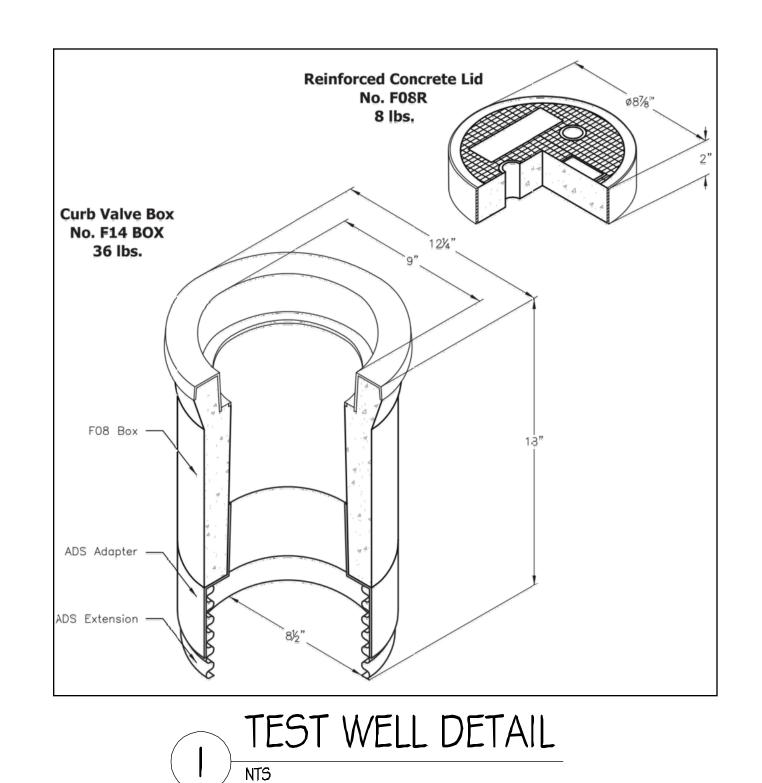
SINGLE-LINE DIAGRAM \$
DETAILS

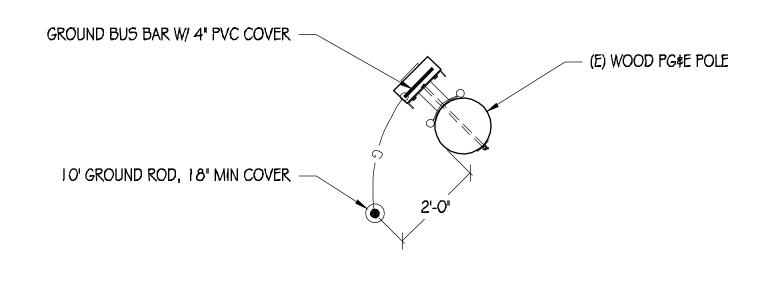
SHEET NUMBER

F_1



POLE GROUNDING DIAGRAM

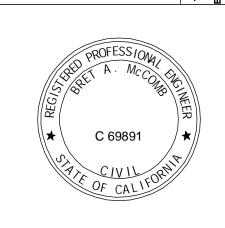












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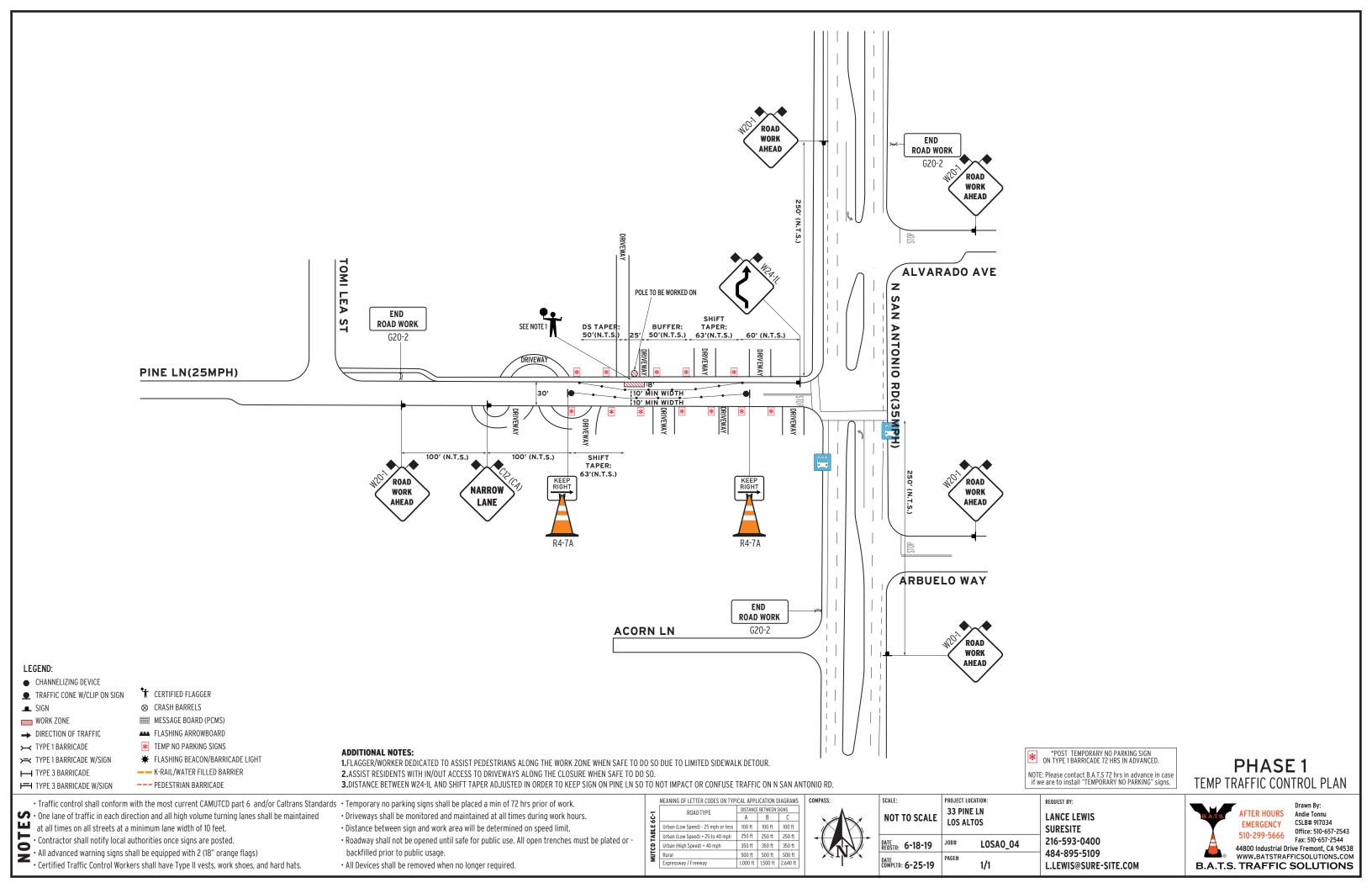
33 PINE LN LOS ALTOS, CA 94022

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APPRO	VED BY:	E	В. МсСОМВ				
DATE:		(07/25/1 9				
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GROUNDING DIAGRAMS

SHEET NUMBER

F-2



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 m	naintain wireless
communication systems at 33 Pine Lane	_, 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 Name/Title Agent

CERTIFIED NOTIFICATION LIST AFFIDAVIT

CITY OF LOS ALTOS STATE OF CALIFORNIA COUNTY OF SANTA CLARA

I, <u>Robert Castro</u> , 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
Signature
June 21, 2019
Date the notices were mailed out
Location:
Public right of way near 33 Pine Lane
37 3022600 122 1150700
<u>37.3922600, -122.1150700</u>

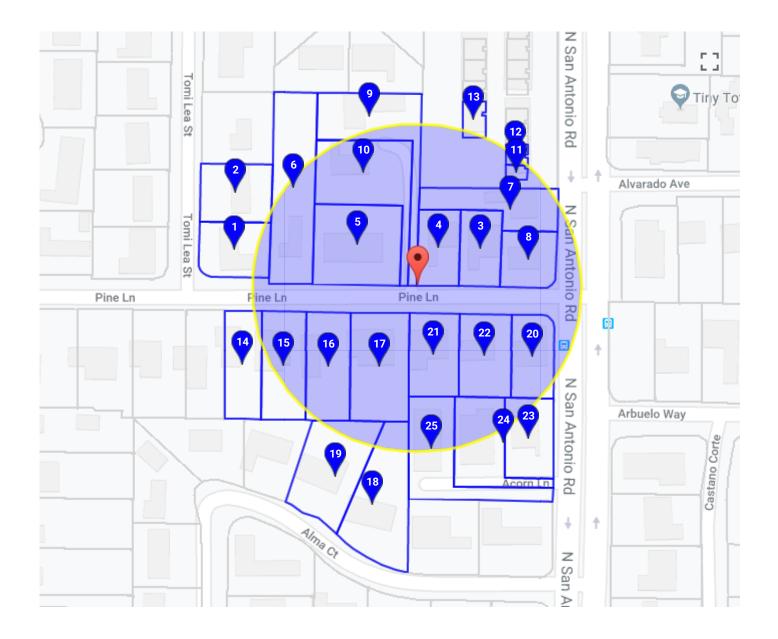
1 167-23-016	2 167-23-017	3 167-23-034
MINYOUNG & KIM HYUNJEONG PARK	ROBERT B DAVIS	TONY LEE & FENG YIJIONG WERNER
611 TOMI LEA ST	625 TOMI LEA ST	23 PINE LN
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
4 167-23-035	5 167-23-037	5 167-23-037
LEONARD K PON	BENJAMIN HAO	OCCUPANT
33 PINE LN	1703 OCTAVIA ST	51 PINE LN
LOS ALTOS CA 94022	SAN FRANCISCO CA 94109	LOS ALTOS CA 94022
6 167-23-038 JAROSLAV & EMANUELA VA'VRA 67 PINE LN LOS ALTOS CA 94022	7 167-23-093 RAMNEEK & SINGHEE PRIYAMVADA GUPTA 640 N SAN ANTONIO RD LOS ALTOS CA 94022	8 167-23-094 YUK MING & LAI YU-MIEN KWOK 11 PINE LN LOS ALTOS CA 94022
9 167-23-095	10 167-23-096	11 167-23-104
IRA FELDMAN	THOMAS W & BARBARA D MCCARTHY	ANAHITA AALAMI
35 PINE LN	39 PINE LN	1080 MORENO AVE
LOS ALTOS CA 94022	LOS ALTOS CA 94022	PALO ALTO CA 94303
11 167-23-104	12 167-23-105	13 167-23-115
OCCUPANT	DAVID KRAUS	HAL A & NANCY LONHART
652 N SAN ANTONIO RD	654 N SAN ANTONIO RD	660 N SAN ANTONIO RD
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
14 167-28-019	15 167-28-020	16 167-28-021
PAUL A & CATHARINE H ZANDER	JUNWEI & ZHANG HAIJING BAO	DAPHNE & WU GUOPING SANG
86 PINE LN	68 PINE LN	56 PINE LN
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
17 167-28-022	18 167-28-027	18 167-28-027
PINE FIFTY LLC	NEAL G ANDERSEN	OCCUPANT
50 PINE LN	552 SHOREBIRD CIR #1102	17 ALMA CT
LOS ALTOS CA 94022	REDWOOD CITY CA 94065	LOS ALTOS CA 94022
19 167-28-028 CHRISTOPHER J & GRIFFIN-WHITE MAURE WHITE 23 ALMA CT LOS ALTOS CA 94022	20 167-28-075 DAVID A FITCH 10 PINE LN LOS ALTOS CA 94022	21 167-28-077 ISAAC W & COZETTA G GUINN 36 PINE LN LOS ALTOS CA 94022
22 167-28-078 GEORGE WANG 1135 MESTRES DR PEBBLE BEACH CA 93953	22 167-28-078 OCCUPANT 24 PINE LN LOS ALTOS CA 94022	23 167-28-113 EDWARD J & BERNS-BATCHELLER BATCHELLER 5 ACORN LN LOS ALTOS CA 94022
24 167-28-114 KAREN M & FRANCIS R CANO 11 ACORN LN LOS ALTOS CA 94022	25 167-28-115 JAMES J & ZOE F CONROY 17 ACORN LN LOS ALTOS CA 94022	IVAN TOEWS SURESITE CONSULTING 2033 GATEWAY PL 6TH FLR SAN 10SE CA 95110

LOS ALTOS CA 94022

SAN JOSE CA 95110

LOS ALTOS CA 94022

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,

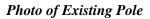
AT&T Mobility proposes to install a state-of-the-art wireless communication small cell node facility on existing wood utility pole located in the City of Los Altos public right-of-way near 33 PINE LANE. The equipment to be initially installed includes one (1) antenna, two (2) radio units, and one (1) 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









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



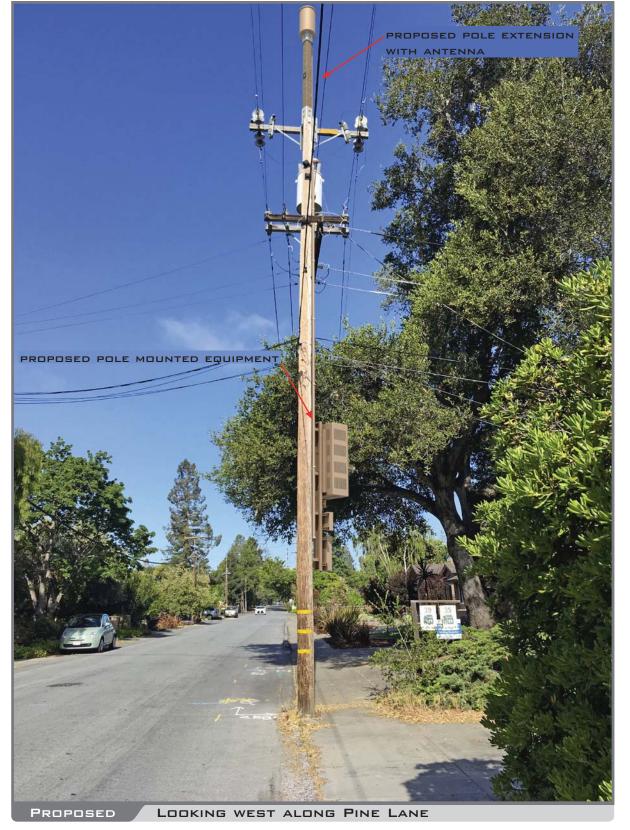
CRAN RSFR LOSAO 04

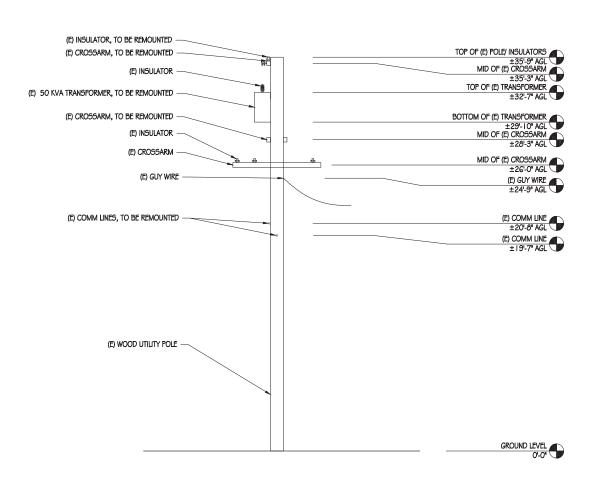
33 PINE LANE LOS ALTOS CA 94022

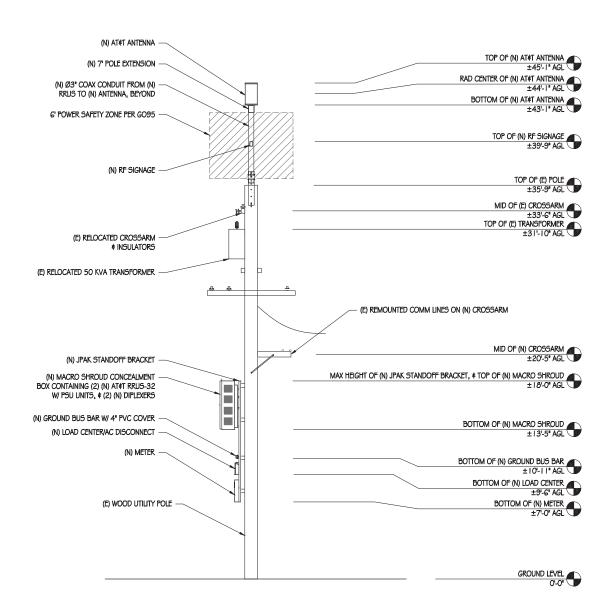


VIEW 1









EXISTING SOUTH ELEVATION

NEW SOUTH ELEVATION

1/4"=1'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN NOTE: (E) CATV TO BE MOVED OUT OF CLIMBING SPACE









CRAN_RSFR_LOSAO_04

ROW ADJCT TO 33 PINE LN LOS ALTOS, CA 94022

ISSUE STATUS		
7	DATE	DESCRIPTIO
	06/08/18	CD 90%
	10/29/18	CD 100%

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DRAWN	I BY:	IB/BL	
CHECK	ED BY:	T. DICARLO	
APPRO	VED BY:	В. МсСОМВ	
DATE:		10/29/18	
	SH	IFFT TITLE:	

ELEVATIONS

SHEET NUMBER

AT&T Mobility Radio Frequency Statement Los Altos CA Small Cell Node 4

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 Pine Lane near Tomi Lea Street. Denial of this proposed facility would materially inhibit AT&Ts 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 33 Pine Lane is needed to close the high-band LTE service coverage in an area bordered roughly by May Lane to the north, Cherry Avenue to the west, Carriage Court to the south and Vera Cruz Avenue 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

EXHIBIT 1

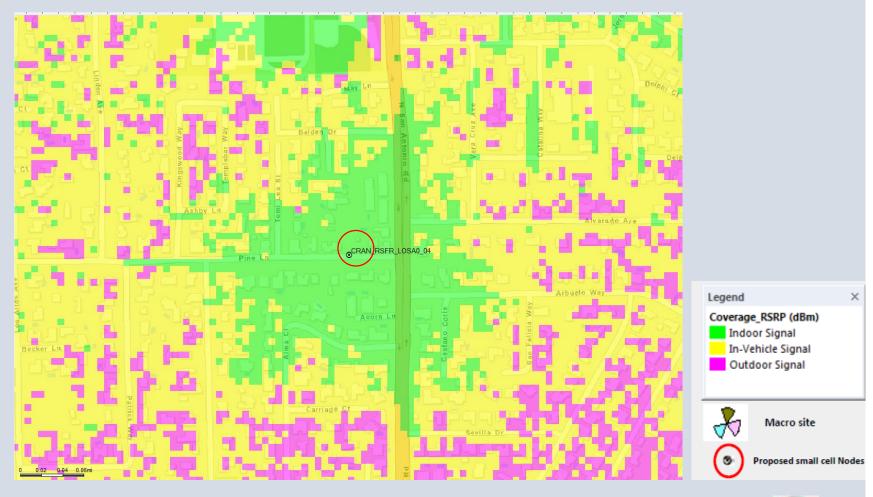
LTE 1900 Coverage without Small Cell LOSA0_04





EXHIBIT 2

LTE 1900 Coverage with Small Cell LOSA0_04







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	a ar	61. H 1 1	/1		
•	<u>the applicant with a copy o</u> ORK: 49 San Juan Ct	t detailed plan	drawing showing t	<u>he prop</u>	osed work):
TYPE OF WORK:	Install equipment on new utility	nole (PG&F to n	erform note replacement	ındar san	arate excavation permit)
CONTRACTOR:	Ericsson, Delbert Butcher				720-317-7282
	PG&E, Jwo Cheng		PHO	_	650-515-9842
OWNER:	Mobility (New Cingular Wireless PCS),		PHO	_	
APPLICANT: Ivan To	news, SureSite Consulting, Agent		PHO	NE#_	949-278-2962
Applicant must subm permit including, with of this permit. The Ci back of this page and Notify the City any work in Dorequires at least business day page A copy of this be terminated The applicant County at (408)	it evidence of insurance comout limitation, the General ty of Los Altos approves the following indicated correct of Los Altos Engineering Department of Los Engineering City of Los Polity Contacting City of Los Polity the City until compliance shall notify the Los Altos Polity 378-4010 at least 3 business construct Driveway/Walkway approach to the City University Contacting City of Los Altos Polity City University City City City City City City City C	verage meeting Requirement is request subjuditions: ivision at (650) and arterial roto beginning of a Altos Engine authorized require Department days prior to a	g the minimum request and exhibits attached to the "General left work. Final inspection of the Cityrement is met. It at (650) 947-2770 and my work in the travele	ned here Requires siness da ic right o on shall y when r d Fire Do d way se	to prior to issuance ments" listed on the ays prior to beginning of way in other areas be scheduled at least 1 equested or work may epartment, Santa Claraction of a street.
to the existing	curb (cold joint).		Ch1 d D D-1;	_	
Applicant shall	n the City ROW shall comply provide adequate drainage wi subbase is required) and confo	ith 3' wide AC s	wale (minimum of 4"	•	2" AC or 4" AC
Contractor will New sidewalk	be required to saw cut along t	the existing roa	d pavement due to sev	ere dama	iged edge.
16" long dowel Comments: _	or curb shall be constructed pos @ 12"o.c. All saw cuts to be	done at existin	g joints.		
Applicant has read an SIGNATURE OF	d understands all the condi	itions; and agi	ees to all the conditi DATE:	ons of t	nis permit.
	AITLICANI.		DATE:		
ISSUED BY:		CICNIAT		-	
INSPECTED BY	÷	SIGNAT FINAL IN	SPECTION DATE	:	
ATTACHMENT:					
YES		\$196.00	CREDIT CH	ECK [CASH
NO		_			Provide Check # or type of credit (VS, MC, or D) and last 4 digits
Distribution:	Original – Inspector	Copies: A	pplicant and Finance	2	

1 11

PERMIT VALID FOR 60 DAYS

(See other side for General Requirements)

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	ng the proposed	l location(s)):	
LOCATION: 49 San Juan Ct TYPE OF WORK: Install equipment on new utility pole. (PG&E to perform pole replacer	nent under separate	excavation permit)	
DATE(S) REQUESTED: 3/21/2019			
CONTRACTOR: Ericsson, Delbert Butcher	PHONE #	720-317-7282	
OWNER: PG&E, Jwo Cheng	_	650-515-9842	
APPLICANT: AT&T Mobility (New Cingular Wireless PCS),		949-278-2962	
Ivan Toews, SureSite Consulting, Agent	_ 1110112 //	<u> </u>	
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:		
SSUED BY: DATE:			
SIGNATURE	_		
INSPECTED BY:FINAL INSPECTION I	DATE:		
APPLICATION FEE (includes the first day): 0 additional days at \$62/day: TOTAL FEES:	\$ 505.00 \$ - \$ 505.00		
ATTACHMENT:			
YES Traffic Control Plan NO	CHECK	Provide Check # or type of credit (VS, MC, or D) and last 4 digits	
<u>Distribution</u> : Original – Inspector Copies: Applicant, Po	olice Departme	nt, and Finance	

See other side for General Requirements

DAYS

PERMIT VALID FOR

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.

Temporary Lane Closure: October 2018_BBK

EXHIBIT B INSURANCE

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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:

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 - e. Aggregate Limits that Apply per Project
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- 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.

Temporary Lane Closure: October 2018_BBK

- 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.

Temporary Lane Closure: October 2018_BBK

- 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.

Temporary Lane Closure: October 2018_BBK



Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name: CRAN_RSFR_LOSA0_05 Site Structure Type: Utility Pole
Address: 49 San Juan Court Latitude: 37.39588
Los Altos, California Longitude: -122.11325

Report Date: October 29, 2018 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_05 site located at 49 San Juan Court, 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.

	Limits for General Populate	ion/ Uncontrolled Exposure	Limits for Occupational/	Controlled Exposure
Frequency (MHz)	Power Density (mW/cm²)	Averaging Time (minutes)	Power Density (mW/cm²)	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-foot Utility Pole with a centerline 48.3 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 0.3610% 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 0.8600% 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 43 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

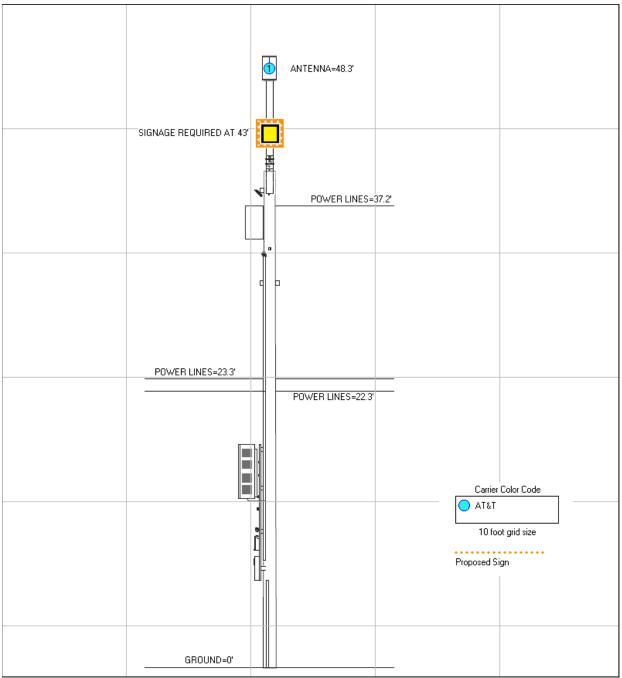


Figure 2: Mitigation Recommendations

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 49 San Juan Court, 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 26, 2018

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

Subj: CRAN_RSFR_LOSA0_005

We have analyzed the wood pole at ROW adjacent to 49 San Juan Ct., Los Altos, CA 94022 (37.3958800, -122.1132500) 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 new pole with proposed loading is at 81.0% 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:

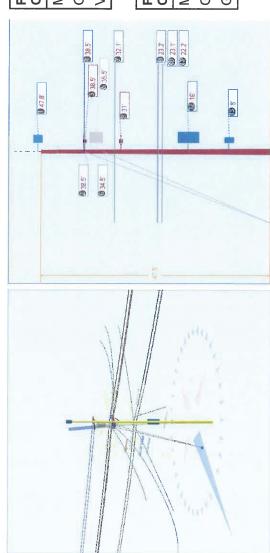
1. O-Calc Output:

4 pages

2. Pole Size Chart:

1 page

Pole Num:	CRAN_RSFR_LOSA0_05 Pole Length / Class:	Pole Length / Class:	55 / 3 Code:	Code:	GO 95	GO 95 Structure Type:	Guyed Tangent
Aux Data 1	Unset	Unset Species:	DOUGLAS FIR NESC Rule:	NESC Rule:			Guy Wires Adequate
Aux Data 2	Unset	Jnset Setting Depth (ft):	7.50	7.50 Construction Grade:	8	Pole Strength Factor:	0.50
Aux Data 3	Unset	Unset G/L Circumference (in):		39.96 Loading District:	Light	Light Transverse Wind LF:	1.00
Aux Data 4	Unset	Jnset G/L Fiber Stress (psi):	8,000	8,000 Ice Thickness (in):	0.00	0.00 Wire Tension LF:	1.00
Aux Data 5	Unset	Jnset Allowable Stress (psi):	3,938	3,938 Wind Speed (mph):	55.90	55.90 Vertical LF:	1.00
Aux Data 6	Unset	Jnset Fiber Stress Ht. Reduc:	No	No Wind Pressure (psf):	8.00		
Latitude:		37.395880 Deg Longitu	ngitude:		-122.113250 Deg Elevation:	Elevation:	94.9 Feet



Pole Capacity Utilization (%) Crossarm allowance 300 lbs	sq (%)	Height (ft)	Wind Angle (deg)
Maximum	81.0	0.0	0.06
Groundline	81.0	0.0	90.0
Vertical	1.7	24.9	180.0

Pole Moments (ft-lb) Crossarm allowance 300 lbs	300 lbs	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	53,379	8.68	0.06
Groundline	53,379	8.68	0.06
GL Allowable	66,317		

Guy System Component Summary				Load From	Load From Worst Wind	Loo I mimison lenginipul	- mimis
				Angle on Pole	on Pole		Ammuni Load
Description	Lead Length (ft)	Lead Length Lead Angle (ft) (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
▶ Single - 14" - Soil Class 4	15.0	0.0		0.3	0.06	5.6	180.0
• HS 1/8 (Down)			38.5	3.2	0.06	62.2	180.0
• HS 1/8 (Down)			34.5	3.0	0.06	68.7	180.0
		System Capacity Summary:	ty Summary:	Adequate	uate	Adequate	uate

*Includes Load Factor(s)

	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	984	64.1	37,872	71.0	57.1	2,250	71	_	2,250	57.1
Comms	-67	4.4	899-	-1.3	-1.0	4	351	က	-37	-0.9
GuyBraces	4	0.3	144	0.3	0.2	O	59	0	6	0.2
PowerEquipments	42	2.7	1,959	3.7	3.0	116	335	က	119	3.0
GenericEquipments	131	8.5	2,521	4.7	3.8	150	160	_	151	3.8
Pole	317	20.7	7,363	13.8	1.1	437	1,599	13	450	11.4
Crossarms	101	9.9	3,398	6.4	5.1	202	138	_	203	5.2
Insulators	24	1.5	790	1.5	1.2	47	82	~	48	1.2
Pole Load	1,535	100.0	53,379	100.0	80.5	3,171	2,794	22	3,193	81.1
Pole Reserve Capacity			12,938		19.5	797			745	18.9

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 89.8°	Reporting An	gle Mode: Loa	d - Reporting	Angle: 89.8°						
	Shear Load* (Ibs)	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></undefined>	1,218	79.3	46,016	86.2	4.69	2,733	1,196	G	2,743	69.7
	317	20.7	7,363	13.8	11.1	437	1,599	13	450	11.4
Totals:	1,535	100.0	53,379	100.0	80.5	3,171	2,794	22	3,193	81.1

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Power		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp	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		38.50	40.55	0.3280	1.68	0.078	165.0	0.06	165.0	492	18,942	_	0	18,943
Primary	AAC 1 AWG 7 STRAND PANSY		38.50	40.55	0.3280	1.68	0.078	165.0	90.0	165.0	492	18,942	—	0	18,943
Secondary	TRIPLEX 6 AWG		32.15	36.56	0.5800	2.31	0.113	165.0	0.06	165.0	357	11,485	2	0	11,490
Secondary	TRIPLEX 6 AWG		32.15	36.56	0.5800	2.31	0.113	165.0	0.06	165.0	357	11,485	5	0	11,489
Secondary	TRIPLEX 6 AWG		32.15	20.98	0.5800	2.31	0.113	165.0	90.0	165.0	357	11,485	5	0	11,490
Secondary	TRIPLEX 6 AWG		32.15	20.98	0.5800	2.50	0.113	176.0	270.0	176.0	357	-11,485	-5	0	-11,490
Secondary	TRIPLEX 6 AWG		32.15	36.56	0.5800	2.50	0.113	176.0	270.0	176.0	357	-11,485	-5	0	-11,490
Secondary	TRIPLEX 6 AWG		32.15	36.56	0.5800	2.50	0.113	176.0	270.0	176.0	357	-11,485	-5	0	-11,490
											Totals:	37,884	-	0	37,885

*Includes Load Factor(s)

² Worst Wind Per Guy Wire

Comm		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp	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		32.15	36.56	1.0000	1.30	0.400	35.0	5.0	35.2	50	142	6	373	524
Telco	TELE 1.0		32.15	36.56	1.0000	3.24	0.400	78.0	170.0	78.4	100	547	=	812	1.370
Telco	TELE 1.0		32.15	36.56	1.0000	2.32	0.400	0.99	180.0	66.3	100	-11	+	708	687
Telco	TELE 1.0		32.15	36.56	1.0000	5.83	0.400	75.0	350.0	76.5	20	-273	-10	781	499
Telco	TELE 1.0		23.25	7.54	1.0000	3.13	0.400	165.0	90.0	165.1	800	18,600	0	0	18,600
Telco	TELE 1.0		23.11	25.16	1.0000	0.36	0.400	45.0	0.0	45.0	300	23	21	343	387
Telco	TELE 1.0		23.11	25.16	1.0000	0.87	0.400	73.0	180.0	73.0	400	-31	12	556	537
Telco	TELE 1.0		23.25	7.54	1.0000	3.41	0.400	176.0	270.0	176.1	800	-18,600	0	0	-18,600
Telco	TELE 1.0		23.10	25.16	1.0000	0.16	0.400	30.0	315.0	30.0	300	-4,763	-22	115	-4,670
Telco	TELE 1.0		22.25	7.60	1.0000	3.13	0.400	165.0	90.0	165.1	800	17,800	0	0	17,800
Telco	TELE 1.0		22.25	7.60	1.0000	3.41	0.400	176.0	270.0	176.1	800	-17,800	0	0	-17,800
											Totals:	4,366	11	3,686	-668

PowerEquipment		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (dea)	Rotate Angle (deg)	Unit Weight	Unit Height	Unit Depth	Unit Diameter	Unit Length	Offset Moment*	Wind Moment*	Moment at GL*
Transformer	1PH-15KVA		35.50	17.34	0.06	0.06	335.00	34.00	1	22.00		484	1,475	1,959
											Totals:	484	1,475	1,959

GenericEquipment	int	Owner	Height	Horiz.	Offset	-	Unit	Unit	Unit	Unit	Unit	Offset	Wind	Moment
			Œ,	Offset (in)	Angle (deg)	Angle (dea)	Weight (lbs)	Height (in)	Depth (in)	Diameter (in)	Length (in)	Moment*	Moment*	at GL*
Box	Housing For RRUs		16.00	13.45	315.0		130.00	53.00	16.00		23.00	-103	1,469	1,366
Box	100amp Meter		8.00	8.22	315.0	0.0	10.00	24.00	4.63	ı	12.00	-5	142	137
Cylinder	Antenna-KMW FX- OM2LI OH2		47.75	0.35	0.0		20.00	24.00	ı	16.00	i	0	1,019	1,019
											Totals:	-108	2,629	2,522

Crossarm		Owner	Height	Horiz. Offset	Offset	Rotate	Unit	Unit	Unit Depth	Unit	Offset	Wind	Moment at
			(2.1)	(in)	(deg)	(Gep)	(lbs)	(in)	(iii)	-	(ft-lb)	(ft-lb)	(ff-lb)
Normal	CROSSARM 3-1/2 X 4-		38.50	5.92	90.06	0.06	46.00	4.50	3.50	84.00	23	1,294	1,316
Normal	I/2 X / CROSSARM 3-1/2 X 4- 1/2 X 7		31.00	6.35	90.0	90.0	46.00	4.50	3.50	84.00	0	2,083	2,083
										Totals:	23	3,377	3,399

Unit Unit Offset Wind Moment at GL* Diameter Length Moment* GL* GL* (in) (in) (ft-lb) (ft-lb) (ft-lb)	100
Weight (lbs)	
Rotate Angle (deg)	
Offset Angle (deg)	
Horiz. Offset (in) -36.00	
Height (ft) 38.50	
Owner	
Deadend 12.75"	
Insulator Deadend	_

*Includes Load Factor(s)

Friday, October 26, 2018 11:01 AM	
O-Calc® Pro Analysis Report	
Pole ID:LOSA0_005-Modeling.pplx	

Deadend	Deadend 12.75"	38.50	36.00	170.7	0.0	3.00	3.80	12.75	2	104	108
Post	Post Insulator - 15 kV	31.19	-36.00	10.0	0.0	11.00	4.75	11.50	9	96	101
Post	Post Insulator - 15 kV	31.19	36.00	170.0	0.0	11.00	4.75	11.50	9	96	101
Post	Post Insulator - 15 kV	31.19	-20.00	17.6	0.0	11.00	4.75	11.50	9	96	101
Post	Post Insulator - 15 kV	31.19	-20.00	342.4	180.0	11.00	4.75	11.50	ဖှ	96	06
Post	Post Insulator - 15 kV	31.19	36.00	190.0	180.0	11.00	4.75	11.50	မှ	96	06
Post	Post Insulator - 15 kV	31.19	-36.00	350.0	180.0	11.00	4.75	11.50		96	06
Bolt	Single Bolt	23.25	0.00	180.0	180.0	5.00	3.00	00:00	0	0	0
Bolt	Single Bolt	22.25	0.00	180.0	180.0	2.00	3.00	00:00	0	0	0
							<u></u>	Totals:	6	780	790

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)
HS 1/8	Down		38.50	0.00	15.00	0.125	75.00	0.0	68.5	0.032	48.28	0.09
HS 1/8	Down		34.50	0.00	15.00	0.125	75.00	0.0	66.3	0.032	44.48	0.08

Guy Wire and Brace (Loads and Reactions)	Srace actions)	Elastic Modulus (psi)	Rated Tensile Strength (lbs)	Guy Strength Factor	Allowable Tension (lbs)	Initial Tension (lbs)	Loaded Tension*² (lbs)	Maximum Tension² (lbs)	Applied Tension³ (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (Ibs)	Shear Load At Report Angle (lbs)	Moment at GL³ (ft-lb)
HS 1/8	Down	2.30e+7	1,330	0.75	866	700	620	620	32	29	12	0	79
HS 1/8	Down	2.30e+7	1,330	0.75	866	200	989	989	30	28	12	0	65
									Totals:	57	24	0	144

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 Load² (lbs)	Load at Pole MCU³ (lbs)	Max Required Capacity² (%)
Single - 14" - Soil Class 4		00:0	15.00	0.0	31,000	0.75	23,250	1,306	62	5.6

	Buckling Load Factor of Safety	58.82
	Buckling Load Applied at Height (lbs)	1643.82
	Buckling Load Capacity at Height (lbs)	166,577
	Pole Tip Height (ft)	47.50
	Ice Density (pcf)	57.00
	Pole Density (pcf)	00:09
	Modulus of Elasticity (psi)	1.60e+6
	Diameter at GL Ele (in)	12.73
	Diameter at Tip (in)	7.32
	Minimum Buckling Diameter at GL (in)	9.34
	Buckling Section Diameter (in)	11.78
	Buckling Section Height (% Buckling Col. Hgt.)	33.34
ng	Buckling Column Height* (ft)	24.90
Pole Buckling	Buckling Constant	0.71

User: Nemesis Nemesis OCP: 5.03

Page 4 of 4

² Worst Wind Per Guy Wire

			DOUGI	AS FIR	POLE :	DOUGLAS FIR POLE SIZING CHART	CHART					
Class	9-H	H-5	H-4	H-3	H-2	Ξ	-	2	ო	4	r _C	9
Minimum Circumference at Top (Inches)	39	37	35	33	8	59	27	25	23	21	19	17
Length of Pole (Feet)			Minin	num Circ	cumferer	Minimum Circumference at 6 feet from Butt (Inches)	eet from	Butt (In	ches)			
20	-	1	,	-		,	31.0	29.0	27.0	25.0	23.0	21.0
25	-	1		-		1	33.5	31.5	29.5	27.5	25.5	23.0
30	1	1	1	1	1	1	36.5	34.0	32.0	29.5	27.5	25.0
35	1	I v		-	43.5	41.5	39.0	36.5	34.0	31.5	29.0	27.0
40	1	1	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
20	61.0	58.5	52.5	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		t
09	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	0.69	66.5	63.5	60.5	57.0	54.0	51.0	48.0	45.0	41.5		1
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	0.09	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	-	,	-
06	76.0	73.0	69.5	66.5	63.0	59.5	56.0	53.0	49.0	1		1
95	77.5	74.5	71.0	67.5	64.5	61.0	57.0	54.0			1	1
100	79.0	76.0	72.5	0.69	65.5	62.0	58.5	55.0	ı	,	,	,
105	80.5	77.0	74.0	70.5	67.0	63.0	59.5	56.0	1		-	-
110	82.0	78.5	75.0	71.5	68.0	64.5	60.5	57.0	1	'		1
115	83.5	80.0	76.5	72.5	0'69	65.5	61.5	58.0	-	-		
120	85.0	81.0	77.5	74.0	70.0	66.5	62.5	59.0	,	'	'	1
125*	86.0	82.5	78.5	75.0	71.0	67.5	63.5	59.5	1		-	1
	H-6	H-5	H-4	H-3	H-2	H-1	-	2	က	4	S	9
* 125' Availability: Untreated Only	Untreate	d Only										

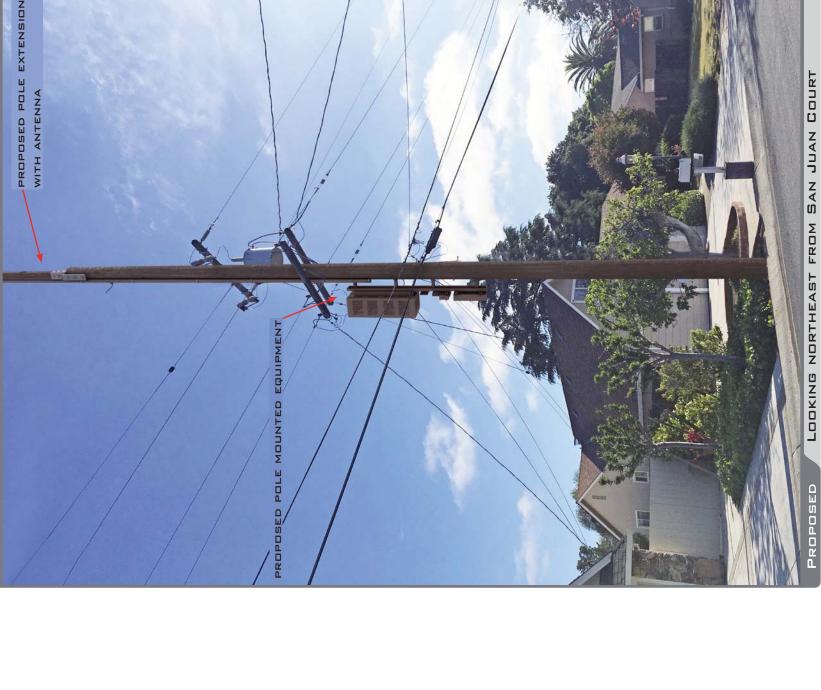


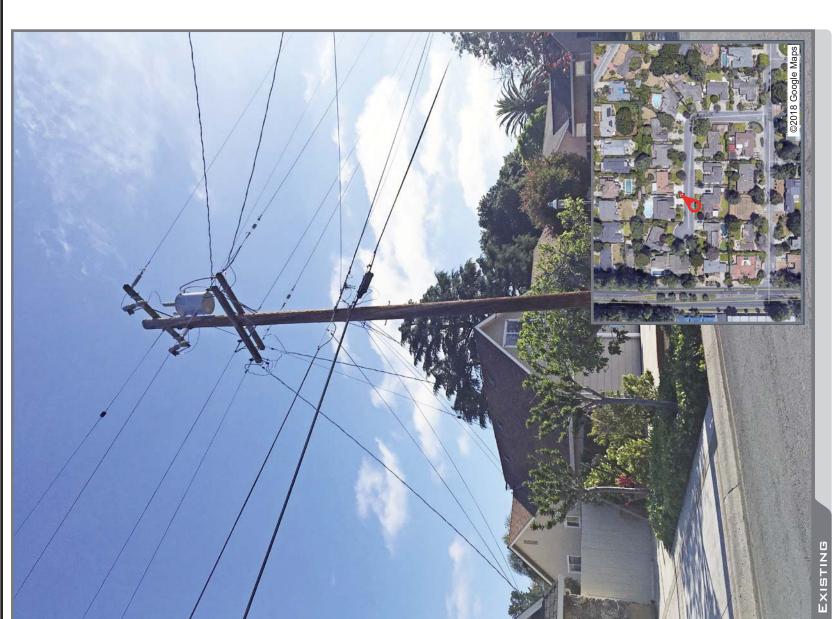
CRAN RSFR LOSAO 05

49 SAN JUAN COURT LOS ALTOS CA 94022



VIEW 1





Alternate Review

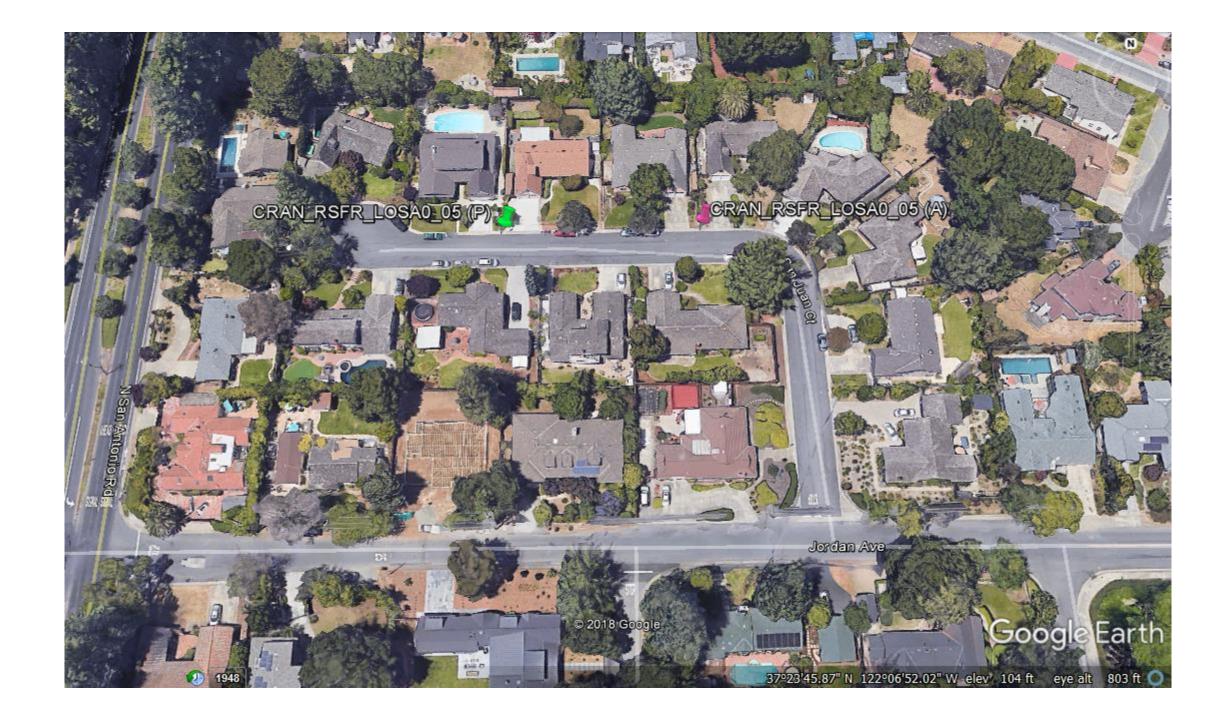
- ☐ AT&T proposed a node location near North San Antonio Road and Jordan Avenue
- ☐ Existing (traditional) cell sites are not suitable candidates for colocation as they do not meet network requirements
- ☐ One alternate location was considered



Alternative Site Location

This location is a wood utility pole located in the public ROW on the north side of San Juan Court approximately 300 feet from Jordan Avenue

This pole is considered a possible candidate but is located farther away from the center of the preferred location as required by our network needs.



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



36 EXECUTIVE PARK, SUITE 210

Phone: (530) 823-6546 www.pdnd.con PRECISION DESIGN

THIS IS AN UNIMAINED TELECOMMUNICATIONS FACILITY FOR ATFT WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENINS & ASSOCIATED EQUIPMENT OF A NV PG#E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

PROJECT DESCRIPTION

INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON A (N) PC4F UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON GO95 COMPLIANT STANDOFF BRACKET & CONSISTS OF (I) ELECTRICAL METER, (I) LOAD CENTERAC DISCONNECT, (I) CONCEALMENT BOX CONTAINING (I) RRUS-44 I S # (I) RRUS-11 W/ PSU UNITS # (2) DIPLEKERS, # (I) KAWN PC-OMZLIOH2

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

GENERAL NOTES, LEGEND, ¢ ABBREVIATIONS

TITLE SHEET

SHEET NO

EQUIPMENT PLAN ¢ ANTENNA PLANS

SITE PLAN

DETAILS SINGLE-LINE DIAGRAM & DETAILS

ELEVATIONS DETAILS ELEVATIONS

IRAFFIC CONTROL PLAN GROUNDING DIAGRAMS

CRAN RSFR LOSAO 05 ROW ADJCT TO 49 SAN JUAN CT PG¢E POLE (PM# 114474352) LOS ALTOS, CA 94022 PG≰E

SITE ADDRESS:

AT¢T MOBILIY 5001 EXECUTIVE PARKWAY 5001 RAMON, CA 945&3

at&t

2898152

POLE OWNER:

SITE TYPE:

FA LOCATION: USID:

PROJECT TEAM (408) 796-8443 CHRISTOPHER.JOHNSON@ERICSSON.COM ERICSSON 6 I 40 STONERIDGE MALL RD, SUITE 350 PLEASANTON, CA 94588 PRECISION DESIGN # DRAFTING, INC 11768 ATWOOD ROAD, SUITE #20 AUBURN, CA 95603 (530) 823-6546 BRET @PDND.COM ARCHITECT/ENGINEER OF RECORD: BRET McCOMB 36 PECUTIVE PARK, #210 IRVINE, CA 92614 (949) 278-2962 LMEINERS@SURE-SITE.COM CONSTRUCTION MANAGER: TBD PROJECT MANAGERS: CHRIS JOHNSON RF MANAGER: THE CROSSING Q 24 Hour Fitness Sport SITE LOCATION Walmart © Trader Joe's 🖲 The Village at San Antonio Center VICINITY MAP ita Rita 🔾 School 122° 06' 47.63" W (-122. I 132306) NAD 83 37° 23' 45.20" N (37.3958889) NAD 83 SITE INFORMATION ROW ADJCT TO 49 SAN JUAN CT LOS ALTOS, CA 94022 SURESITE 36 EXECUTIVE PARK, SUITE 210 IRVINE, CA 92614 AT¢T MOBIUTY 500 I EXECUTIVE PARKWAY 5AN RAMON, CA 94583 ADJCT TO 170-13-045 CITY OF LOS ALTOS SANTA CLARA ±94.9' AMSL PUBLIC ROW 100508817 STREET CLASSIFICATION: ZONING JURISDICTION: GROUND ELEVATION: SITE ADDRESS: PG¢E SAP ID: LONGITUDE: APPLICANT: COUNTY: LATITUDE: ZONING:

CRAN_RSFR_LOSAO_05

ROW ADJCT TO 49 SAN JUAN CT LOS ALTOS, CA 94022

△ DATE DESCRIPTION IO/30/18 CD 90% ISSUE STATUS

CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE	DIRECTIONS FROM AT#T V
* LOCAL COUES AS ADOPTED BY LOCAL JUNISHION, INCLUDING BUT NOT LIMITED TO:	FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94.
1. 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 ¢ 25)	
2. 2016 CALIFORNIA BUILDING CODE	1. HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR
	TURN RIGHT ONTO SUNSET DR
3. 2016 CALIFORNIA ELECTRICAL CODE	USE THE MIDDLE LANE TO TURN RIGHT ONTO BOLLINGE
	4. USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THI
4. 2016 CALIFORNIA MECHANICAL CODE	5. MERGE ONTO I-680 S
	TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 T
5. 2016 CALIFORNIA PLUMBING CODE	KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSIO
	SMISSION BLVD

4. 2016 CALIFORNIA MECHANICAL CODE	5. 2016 CALIFORNIA PLUMBING CODE	LIFORNIA FIRE CODE	JILDING CODES
4. 2016 CALIFORNIA	5. 2016 CALIFORNIA	6. 2016 CALIFORNIA FIRE CODE	7. LOCAL BUILDING CODES

HANDICAP REQUIREMENTS	
HANE	1

8. CITY/COUNTY ORDINANCES

9. ANSI/EIA-TIA-222-G

THIS FACILITY IS UNMANNED ¢ NOT FOR HUMAN HABITATION. HANDICAPPED
REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STAT
ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1 105B.3.4.2, EXCEPTIOI

ACCESS ¢ TE ON I

ESTIMATED DISTANCE: 39.9 MI

ESTIMATED TIME: 50 MINS

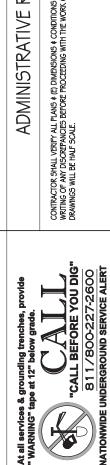
END AT: 49 SAN JUAN CT, LOS ALTOS, CA 94022

DRIVING DIRECTIONS

CODE COMPLIANCE

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE		
MAY, SAN RAMON, CA 94583 ALTOS, CA 94022		
P DR TOWARD SUNSET DR	256	F
JR.	- - 0	Σ
RN RIGHT ONTO BOLLINGER CANYON RD	0.3	Σ
KGE ONTO 1-680 S VIA THE RAMP TO SAN JOSE	0.3	Σ
	21.5	Σ
BLVD/STATE ROUTE 262 TOWARD I-880	0.2	Σ

	,			
	4.	USE THE RIGHT LANE TO MERGE ONTO 1-680 S VIA THE RAMP TO SAN JOSE	0.3	₹
	5.	MERGE ONTO 1-680 S	21.5	₹
	ė	TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD 1-880	0.5	₹
	7.	KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO CA-262		
		SMISSION BIVD	0.3	₹
	ø.	MERGE ONTO CA-262 S/MISSION BLVD	9.0	₹
	6	USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD INTERSTATE 880 S/SAN JOSE	6.0	₹
	<u>o</u>	MERGE ONTO 1-880 S	3.	₹
	=	USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW	6.0	₹
	2	CONTINUE ONTO CA-237 W	8.4	₹
	<u></u>	KEEP LEFT TO CONTINUE ON CA-237 W/SOUTHBAY FWY	0.5	₹
	4	TURN RIGHT ONTO EL CAMINO REAL	2.3	₹
	5	Turn left onto Jordan ave	4.0	₹
	<u>.</u>	TURN RIGHT ONTO SAN JUAN CT	469	E
_				



		DRAWN BY: T. JONES	CHECKED BY: T. DICARLO	APPROVED BY: B. McCOMB	DATE: 10/30/18	SHEET TITLE:	TITIF SHFFT		SHEET NUMBER
							REQUIREMEN IS	S ON THE JOB SITE # SHALL IMMEDIATELY NOTIFY THE ENGINEER IN	OR BE RESPONSIBLE FOR SAME IF USING II"X I7" PLOT,

ADMINISTRATIVE

١

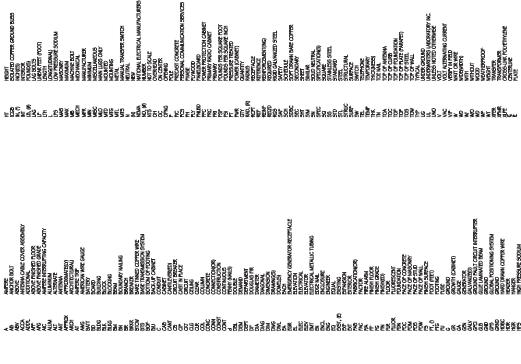
CONVERT 4" CONDUIT OF SIX BAGE OF POLE. CONTRACTOR TO STUD UP FOLE 10" W. 3" FOWER CONDUIT. FOWER COMPANY TO COMPERT PROM 3" STUD SCHEDULE 60 TO 2" SCHEDULE 60 FROM TOP OF STUD UP. USE 172 DA. CABLE DA ANTRAWA UNILESO OTHERWISE STICHED. PLACE GFO DARA OF SOUTHER SAY DEPOSITIES AT MAINLAIM GFROM TRANSHIM ANTRANA WHICH IS 24" AMAY TROM CANTRE OF POLE. FILL VOID AROUND CABLES AT CANDULT OFFENING WITH POAM SEALANT TO PREPENT WATER INTELSION. MANTAN 30 MINIMALM COFER FOR ALL TELECOMMUNICATIONS CONDUTS. MANAMAN I "SAND SHOWN EXPLOY CONDUTS, AND A "CONFISION ON TOP OF CONDUTS REQUIRED. MALE EXECTIVED, CONDUTINIS TRANK TOWER CONFINIT FROM MY TELE TRANSFORMER OR OTHER LOCATIONS WILL DE SUIREY DAGATILED. IN STREET SUIREY TO GRADE AND MILL DOWN I 1-1/2" FOR AC CAP. CABLE CLAMPS TO SECURE CABLE TO ARMS, PLACE 2" T-MOBILE CABLE I.D. TAGS ON BOTH SIDES OF ARMS 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10" THEN CONVERT TO SCHEDULE 80. IN DIET SLURRY I 18" ROM GRADE AND FILL 95%, COMPACTION NATIVE SOIL FOR BAUANCE WARNING TAFE TO BE FLACED IN TRENCH I 2" ABOVE ALL CONDUITS AND #18 WARNING TAFE ABOVE RING TYPICAL R.O.W. POLE CONSTRUCTION NOTES MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE. GENERAL GROUNDING NOTES GENERAL TRENCHING NOTES 5/8' x 10' rod), cad weld below grade ground tested at 5 ohias or less. FS ground and bond wire. Grounds 3' from pole. GENERAL CONDUIT NOTES **ABBREVIATIONS** CONTRACTOR SHALL EGALY AND PROPREY DISPOSE OF ALL SCRAF NATERALS SUCH AS CONSAL CABLES AND OTHER ITAKE PRACKED PROAT THE ENSTING FACILITY. ANTENAMO REMONDS SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION. PROR TO THE SURMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CRIL SITE TO PAMILIANZE WITH THE BUSTING CONDITIONS AND TO COMPRAI THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION REALMICS. ANY DECORPANCY FOUND SHALL BE BROJUGHT TO THE ATTENTION OF CONTRACTOR. SINCE THE CELLSITE B ACTINE, ALL SAFETY PECULIDISE MAST BE TAKEN WHEN WORKING AROUND INCH LEAGLS OF ELECTROMAGNETIC RUDATION. EXAMPLES SHULDOWN. ANY WORK THAT COLUD DEFOSE THE WORKERS TO BANY DAMERICALS PERSONNE LEAFS. CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL ALTHORITY HAVING JURISDICTION (ANJ) POR THE LOCATION CONTRACTOR SHALL DETSAMIR ACTUAL BOUTHIG OF COMBUT, POWER AND TI CABLES, GROANDING AND CABLES AS SHOWN ON THE POWER, GROANDING AND TELCO PLAN DRAWANG. BESTING TRAYS ANDICK SHALL ADD NEW TRAYS AS NECESSARY, CONTRACTOR, SHALL CONFRM THE ACTUAL BOUTING WITH THE CONTRACTOR. TELCOMMUNICATIONS INDIGETY VECCOLATION (TIM, 2224; STRUCTIRA, STRUCTIRA, MITCHAN, SULFANNA TOMER AND ANTENNA SULFORTING STRUCTIRES HABITITION FOR ELECTRICALA, DELICENCIACIS DIGENERS FINE BE, GLUET FOR RESURNAT, GROUND INFERMEZ, AND PARTI SURVEZ FOTENTI (1899) RECOMMUNICATE FOR FOURNIES AND GROUNDING OF ELECTRICAL EDUINING THE GROUNS (FOR INCIDENCY 1234 AND HIGH SOFTEN BROSHE?) HER SEC 44, RECOMMUNICATION THE GROUNDING STRUCTION FOR THE GROUNS (FOR IDCATION CATEGORY 1234 AND HIGH SOFTEN BROSHE?) 5/8" X 10"-0", CU. GND ROD IN TEST WELL 18" MIN. BELOW GRADE. COMMERCIAL BUIDING GROUNDING AND BONDING REQUIREMENTS FOR TRECOMMINICATIONS AND TRECORDIA GR-63 NETWORK EQUIPMENT-BUIDING SYSTEM THE DESTING CRIL STILE OIL NO MARKROLAL OPERATION, ANY CONSTRUCTION WORK BY CONTRACTOR, SHALL NOT DEBUITT THE DESTING NORWAL OPERATION COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SOFEDULED FOR AN APPROPRIATE WANTERWAYE WINDOW USHALLY IN LOW TRAFF PRESIDES AFTED. CHEMICAL GROUND ROD (XIT GROUND ROD) THE EDITION OF THE ANJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN CONTRACTOR SHALL VERITY ALL BYSTING DINJEKONG AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DINJEKSIONS OF CONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCRETANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONE APPLICABLE CODES, REGULATIONS, AND STANDARDS CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS GENERAL NOTES FOR EXISTING CELL SITES for any conflicts between sections of listed codes and There is conflict between a general requirement and syfe telcordia gr. i 275 general installation requirements Telcordia gr. i 503 coaval cable connections ANY AND ALL OTHER LOCAL # STATE LAWS AND REGULATIONS TELCO RUN WORK OR CONSTRUCTION. 9. ALL BETING UTLITES, FACILITES, CONDITIONS, AND THER DAMESIONS SHOWN ON THE FLAM HAND FROM ANALABLE RECORDS. THE ARCHITECTENGHERS AND THE OMNER, ASSUME NO SERVICEMENT OF THE MEMORY OF THE MEMORY OF THE MEMORY OF THE MEMORY OF THE WINDS OF THE MEMORY OF THE WINDS OF THE MEMORY OF THE WINDS OF THE WINDS. 12. ANT DRAIN ANDOR TIED THE ENCOUNTERED DERRING CONSTRUCTION SYALL BE FEITHEID TO TIS ORIGINAL CONDITION TROOK TO COMPLETION OF WORK, SIZE, LICCATION AND THE OF ANY UNDERSOUND THITITS OR IMPROPRIENTS SHALL BE ACCURATELY MOTED AND TAKED ON MO-BUILD TRAININGS BY CARRAL CONTRACTOR, AND SOURD TO THE ACCURATELY MOTED AND TAKED ON MO-BUILD TO AND THE OF ANY TRAINING OF THE ACCURATELY AND THE ACCURATE AND THE WHERE LOCAL CODES OR THE CODE ENFORCEMEN TIONAL SAPETY AND HEALTH 6. REPRESENTATIONS OF TRUE MORTH, OTHER THAN THOSE FOUND ON THE THAT OF SURVEY DRAWINGS, SHALL NOT BE LISED TO IDENITY OR ESTABLISH BEARNE OF TRUE MORTH AT THE SHITE. THE CONTRACTOR SHALLE ESTADLE OF THE THOT OF SHEAR FOR THAT SHALL SHALL SHALL SHALL SHALL SHALL WORTH, AND SHALL MOTH 7. ALL KOUTNEHT, INCLUDING ANTININGS, MOUNTINGSTARDOFF BEACKERS, FOLE ENTRIBICION, METRE, AND RADIOS SHALL BE PAINTED MEDA BROWN LISING A DURABLE OUTDOOR PAINT. 5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COCLUBC'S RECAUSEMENTS RESHOWED ARE RESISTANCE, FOR, BUT NOT LIMITED TO, FITHING, PRITURES, CRILING GRID, INTEROR PARTITIONS, AND MECHANICLE EXCURIBIST. ALL WORK MAST COMPLY WITH LOCAL ENGINGLANCE COORSE AND RESULATIONS. 18. CABING SHALL BE MESA BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT BKCESS CABLE LOOPS, 4 SHALL BE HIDDEN FROM VIEW TO THE MANNAM KTEMT POSSIBLE. 1. ALI NEW AND EXSTING UTLITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO THISH BLEVATIONS PRIOR TO FINAL LIST IG. FONDATED RE WAG MARNING SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN PRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD THE BUILDING IF THERE IS NO WINDOW. 2. THE CANTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEPAINED OR IDBITITIED BY THE CONTRACT DOCUMENTS. 4. THE CONTRACTOR SHALL NSTALL ALE EQUIPMENT AND MATERIAS IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR 1 FEBLUATIONS INCEPRICESPORT. IO, COMTRACTOR SHALL WEBTH, UITUITS, BOTH HOWIZOMITA, AND VRICICALLY, RICKR TO THE STAKE OF COMPILACTOR. ANY DECORDANCES OR DOLARIS AS TO THE SHALLD BE MANIBURITY REPORTED TO THE ARCHITECT BIGNERS FOR RESCOUNDING AND INSTRUCTION, AND NO TARTHER WORK SHALL BE REFORMED UNTIL THE DECORDANCY IS OF THE ARCHITECT BIGNERS. FINLINE TO SECURE SUCH INSTRUCTION MEMB CORECTOR WITH HAVE WORKED AT HISHER OIM RISK AND BETSHEE. 3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALER) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEDING WITH ANY EXCAVATION, SITE 3. ALT TRIPORAY BICAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITES, ETC, SHALL BE PROPERLY LAD ENCY OR BRACED IN ACCORDANCE WITH CORRECT COCLIFIAL ADMINISTRATION (CSHIW PECULIPEAGENTS). I. FLAIS AR INTENDED TO BE DIAGNAMANTO CUTLINE DIVIL, MALES NOTID OTHEWICE. THE WORK, SHALL INCLUDE FURNISHING MATERIALS, EQUITAGIT, APPURITIMACES AND COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWNINGS. 15. ALI EXUMENDI LOGOS, OTHER THAN THOSE REXULRED BY RESULATION E.G. NODE DENTIFICATION OR SHILLDOWN SIGNACES OR TOR TO RESULATIONS SHALL BE FANTED OVER. RASDIDENSES DIGGOS OR TEXT ON EXUMENT (E.G. RASD), IF PRESENT, TO BE SANDED OFF OR COVERED WITH STICKER, A THEN PARITED OVER. 7. THE BUILDING DEPARTMENT EQUING THE PERMITS SHALL BE NOTHED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCIAMENT OF WORK, OR AS OTHERWISE STIPLLATED GROUT OR PLASTER 19. SUPPORT EQUIPMENT (E.G. METERS, DISCONNECT SWITCH, ETC) TO BE CLUSTERED VERTICALLY AS CLOSE AS TECHNICALLY FEASIBLE ON POLE. 8. Do not excavate or disturb beyond the property lines or lease lines, unless otherwise noted. GROUND BUSS BAR EXISTING ANTENNA GENERAL CONSTRUCTION NOTES GROUND ROD 14. INCLUDE MISC ITEMS PER ATAT WIRELESS SPECIFICATIONS. SYMBOLS LEGEND \otimes OFFICIAL HAVING JURISDICTION.

36 EXECUTIVE PARK, SUITE 210

Phone: (530) 823-6546 www.pdnd.cor PRECISION DESIGN

AT¥T MOBILIY 5001 EXECUTIVE PARKWAY 5AN RAMON, CA 945&3

Jäjb



1ALO GROUND CONNECTIO

UTILITY METER BASE CIRCUIT BREAKER

3

SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, 50 D CATALOG NO. H222NRB

FUSE, SIZE AND TYPE AS INDICATED.

GROUNDING CONDUCTOR

MECHANICAL GRND. CONN. GROUND ACCESS WELL *

(ECHANICAL CONNECTION

CRAN_RSFR_LOSAO_05

ROW ADJCT TO 49 SAN JUAN CT LOS ALTOS, CA 94022

DATE DESCRIPTION 10/30/18 CD 90% ISSUE STATUS DRAWN BY:

CHECKED BY: 1. DICARLO APPROVED BY: B. McCOMB 10/30/18 SHEET TITLE DATE

IONIZATION SMOKE DETECTOR WIAJARM HORN ♦ AUXILJARY CONTACT, I 20 VAC, GENTEX PART NO 7 I 00F

 \odot

EMERCENCY LIGHTING, 2/50M, HUBBELL LIGHTING CATALOG #HEG-50-2-R9 I

LIGHTING FIXTURE, INCANDESCENT, 1/100W, V MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1

9

overhead telephongoverhead Power

-0HT/0HP

ELEVATION REPERENCE

SECTION REFERENCE

OVERHEAD TELEPHONE LINE OVERHEAD POWER LINE

(N) POLE MOUNTED XPMES

(E) POLE MOUNTED XPMF (N) PAD MOUNTED XFME (E) PAD MOUNTED XFMER

 \blacktriangleleft

LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336

A

LIGHTING FIXTURE, HALDGEN, QUARTZ, 1/300W, LIGHTING CATALDG #QL-505

5/8" X 10'-0", CU. GND ROD 18" MIN. BELOW GRADE

TOGGLE SWITCH, IP-120V-15A, WP TOGGLE SWITCH, IP-125V-15A, HUBBELL CATALOG #HBL 1201CN

EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL WIBATTERY PACK, HUBBELL LIGHTING CATALOG #PRB UGHTING FIXTURE, HIGH PRESSURE SODIUM, 170W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121

> 무

COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PRC

OVERHEAD SERVICE CONDUCTORS

₹ — C□AX

CHAIN LINK FENCING

GROUND CONDUCTOR

GRID REFERENCE

 $\stackrel{\times}{}$

COAXIAL CABLE

PROPERTY/JEASE LINE

FND. MONUMENT

LIGHT POLE

SPOT ELEVATION

SET POINT REVISION

 \triangleleft

TELEPHONE BOX

PLECTRIC BOX

 \otimes 1 **-** \Rightarrow 0 MATCH LINE WORK POINT

RECEPTACLE, 2P-3W-125V-15A, DUPLEY GROUND TYPE, HUBBELL CATALOG #536

 \oplus

P-DOWN TRANSFORMER

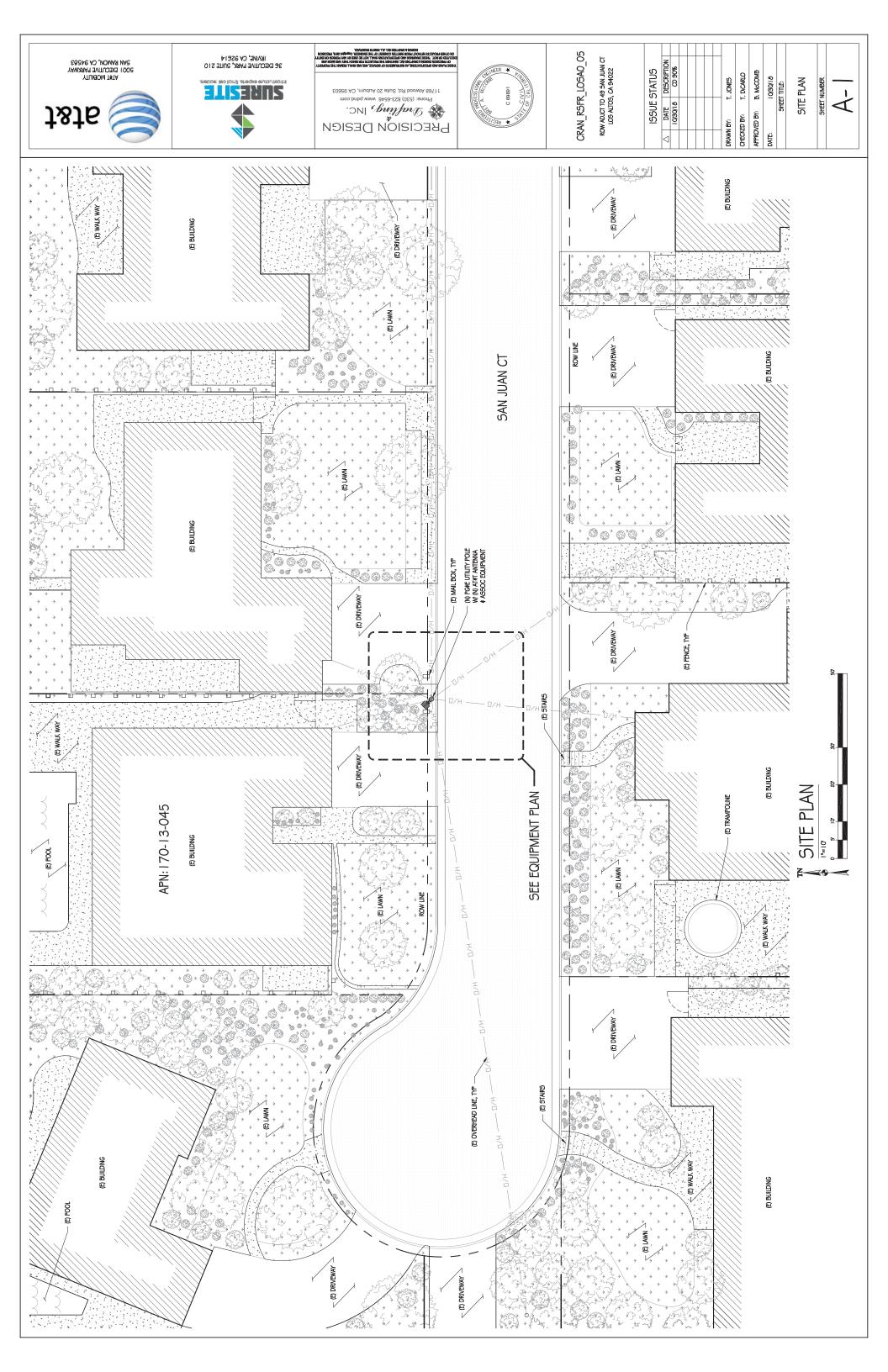
 \vdash

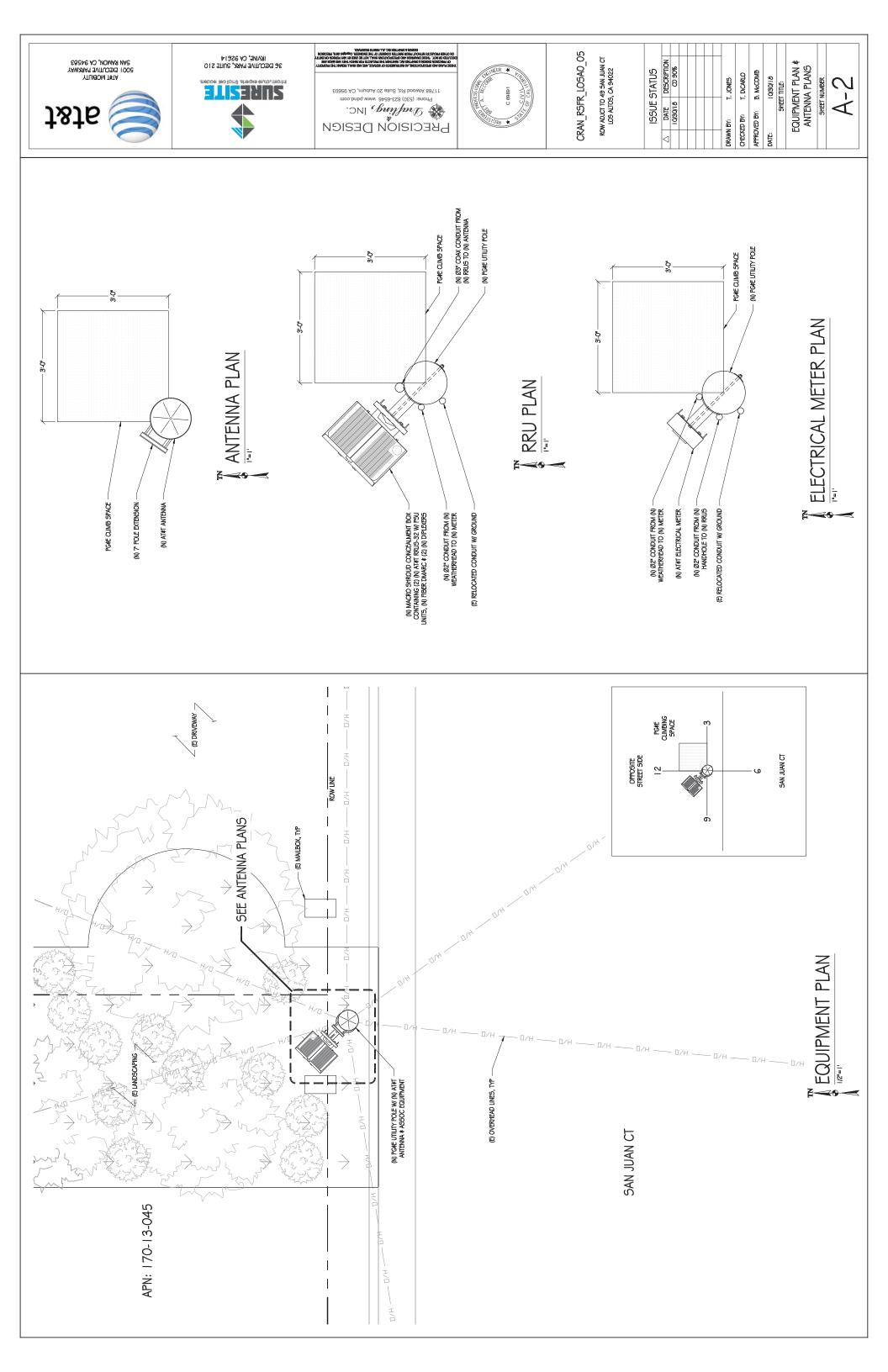
LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4"-0", 240W SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG JIGHTING FIXTURE, FLUORESCENT, 10.94" x 8-0", 2/95W BURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG

MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE

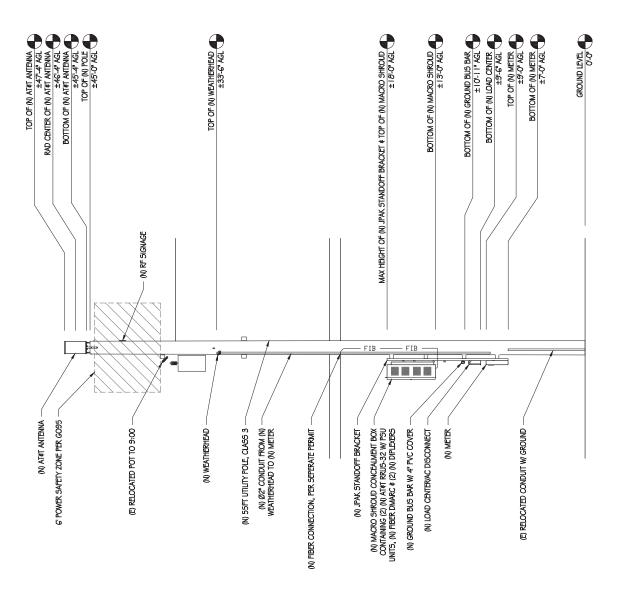
GENERAL NOTES, LEGEND # ABBREVIATIONS

 \mathcal{C} ١





CRAN_RSTR. LOSAO OS ALTOS CA 3-940-63 MILION CONSTRUCTION OF BITCHER CONTROL OF BENEFIC OF BENEFIC



TOP OF (I) POLE # 199-07 AGL | 199-07 AGL |

(E) POT TO BE RELOCATED

(E) 15 KVA TRANSFORMER (E) GUY WIRE, TYP

(E) CROSS ARM, TYP

(E) COMM LINE, TYP

BOTTOM OF (2) TRANSFORMER

±34-6" AGL
(E) GJV WIRE

±33-9" AGL
(E) CROSS ARM

±31-0" AGL

(E) COMM LINE ±23'-3" AGL (E) COMM LINE ±22'-3" AGL

> (E) PG4E UTILITY POLE TO BE REMOVED & REPLACED

EXISTING NORTH ELEVATION

GROUND LEVEL O-0"

NEW NORTH ELEVATION

/4"=|'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN

ELEVATIONS

A-3





(E) POT

(E) GUY WIRE, TYP

(E) CROSS ARM, TYP

(E) I 5 KVA TRANSFORMER

POT TO BE RELOCATED

BOTTOM OF (F) TRANSFORMER

±34.6° AGI

±34.6° AGI

±33.9° AGI

(E) CROSS ARM

±31.0° AGI







ROW ADJCT TO 49 SAN JUAN CT LOS ALTOS, CA 94022

ISSUE STATUS

DATE DESCRIPTION 10/30/18 CD 90%

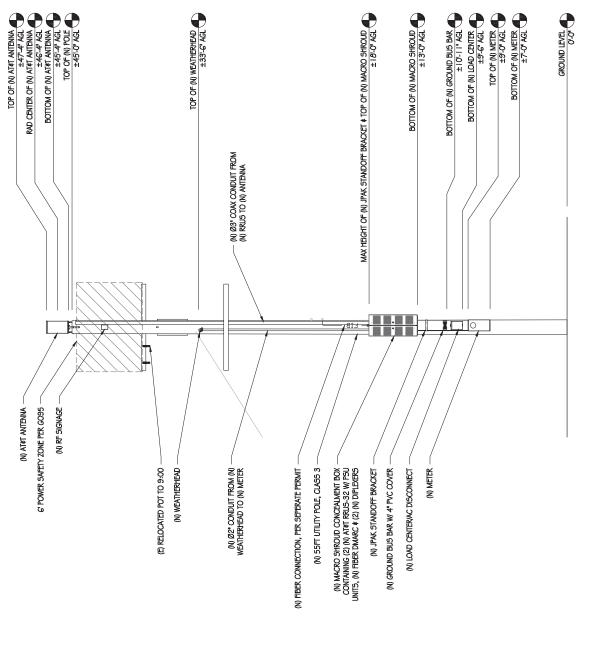
APPROVED BY: B. McCOMB CHECKED BY: T. DICARLO DRAWN BY:

10/30/18 SHEET TITLE:

ELEVATIONS

A-4





(E) COMM UNE ±23'-3" AGL (E) COMM UNE ±22'-3" AGL

(E) PG¢E UTILITY POLE TO BE REMOVED ¢ REPLACED

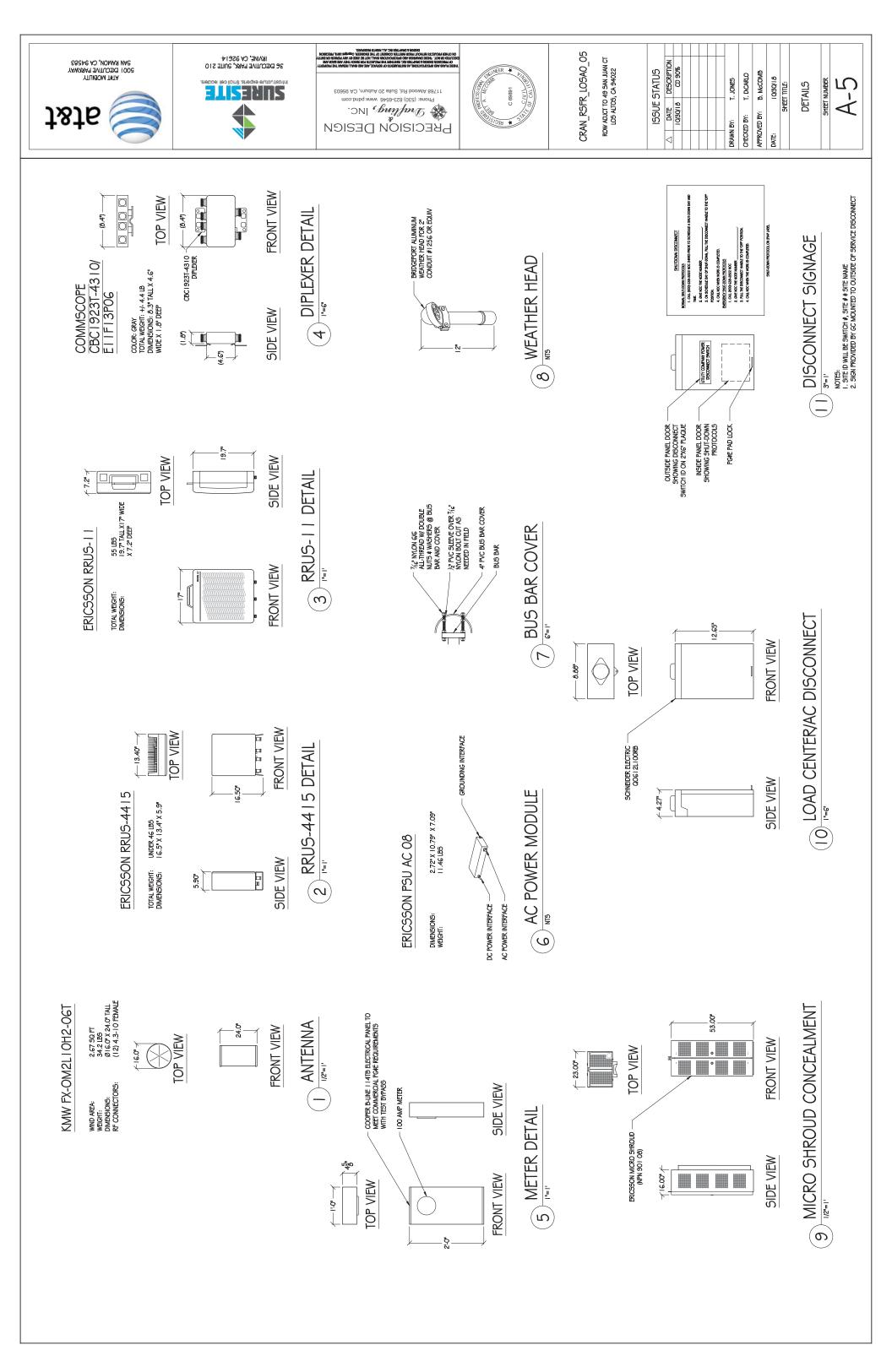
(E) COMM LINE, TYP

NEW EAST ELEVATION

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN

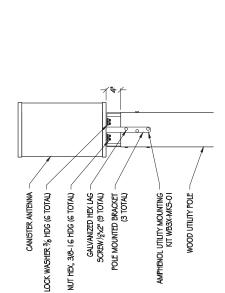
EXISTING EAST ELEVATION

GROUND LEVEL O'-0"

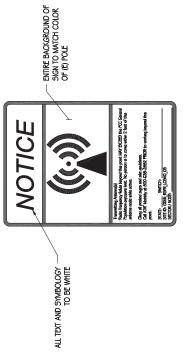


STRUCTURAL STEEL NOTES

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, FRECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND FRECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL, SHALL BE ASTM A3G UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_r=50,000 Psi) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TER) CHES) SHALL BE ASTM A500 GRADE B (F_r=46,000 Psi), ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_r=35,000 Psi)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E700X ELECTRODES AND SHALL CONFORM TO AISC ¢ AWS DI.I. 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, ϕ SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM FS93 CW 304/31 (C STANLESS STEEL . BOLIED CONNECTIONS SHALL BE BEARING TYPE, SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLIS. ė
- ALL HOLES FOR BOLITD CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. UDES STANDED ASC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE, HOLES FOR ANCHOR BOLTS IN BAGE PLATES MAY BE ASC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HOG WASHER BAY.
- ALL SHOF FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALIVANIZED PER ASTIM AI 23 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOF COAT OR GALIVANIZED & PAINTED FER PLAN. ø.
- ali field fabricated galvanized strei, that is cut, ground, drilled, weided or damaged shall Be treated with zinc rich" cold galvanizing spray or coating. No raw strei, shall be
- at all web stiffener plates leave 3/20 (or ζ , whichever is larger) hole @ Webflange intersection unless noted otherwise. <u>ö</u>



POLE-TOP ANTENNA MOUNT DETAIL



AT¥T MOBILIY 5001 EXECUTIVE PARKWAY 5001 EXECUTIVE PAF563

at&t

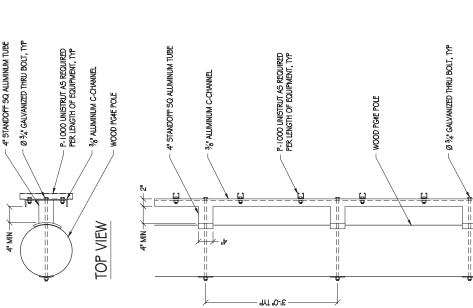


NOTES: NOTICE IS A VINYL STICKER ADHERED TO POLE

(N

36 EXECUTIVE PARK, SUITE 210

Phone: (530) 823-6546 www.pdnd.com PRECISION DESIGN



MICRO EQUIPMENT SHROUD W/ (1)
RRUS-4415 # (1) RRUS-11,
STACKED, # (2) DIPLEXERS

PLAN VIEW

س√* GALV THRU BOLT REQUIRED FOR (3) RRU MOUNTING, TYP Ø3/8" BOLTS, LWS \$ NUTS, TYP JPAK 1000-7 STANDOFF BRACKET MANUFACTURER SUPPLIED MOUNTING HARDWARE

VERTICALP I 000T UNISTRUT,

JPAK STANDOFF BRACKET WOOD PG4E POLE 09/4" GALV THRU BOLT REQUIRED FOR (3) RRU MOUNTING, TYP

MICRO EQUIPMENT SHROUD W/ (1)
RRUS-4415 & (1) RRUS-11,
STACKED, & (2) DIPLEXERS

Manufacturer Supplied Mounting Hardware

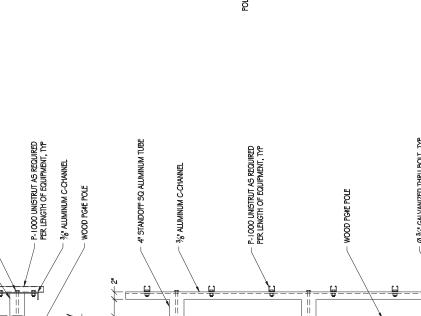
- VERTICAL P.1000 T UNISTRUT, TYP

WOOD PG#E POLE

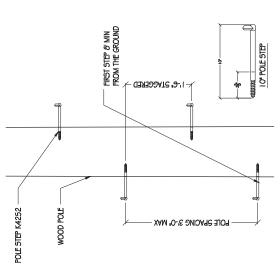


RRU MOUNTING DETAI

SIDE VIEW







DATE DESCRIPTION 10/30/18 CD 90% ISSUE STATUS

CHECKED BY: T. DICARLO APPROVED BY: B. McCOMB

DRAWN BY:

10/30/18

SHEET TITLE:

CRAN_RSFR_LOSAO_05

ROW ADJCT TO 49 SAN JUAN CT LOS ALTOS, CA 94022









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 CALFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MASSHALL ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF INDEPENTED ADDRATIORY (UL) OR AN APPROVED TESTING LABORATORY, PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT. ĸi
- 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 FOR ANY LOSS OR INURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS & WARNINGS. ω;
- COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES
- ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE PART OF THIS CONTRACT.

Ŋ,

- FINALIZE ALI ELECTRICAL, SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETALLS, COORDINATION OF THE INSTALLATION & PAYMENT OF ACCURED CHARGES WITH LOCATION-PAYAN, VERBEY LOCATION FOR FACILITIES & FICELLE WHITH CONFIDENTY, IN ADDITION TO THE RECUIREMENTS SHOWN IN THE CONFINAL WAS SHALL COMPLY WITH CONFIDENCION STANDARDS & SERVICE REQUIREMENTS OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES. ف
- 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 TWA".
- PROVIDE CONDUIT SEALS FOR ALL CONDUITS FENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT. ø.
- FUSES SIZED TO EQUIPMENT 5, SWITCHES AND OTHER OUTDOOR uniess shown otherwise, fused disconnect switches shall be provided with low-peak, sidual element in Nameplate fuse current rating, motor starters shall be provided with similarly sized fusible elements, Equipment shall be rated nema sr andjor ul listed for wet environment. و.
- 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. <u>o</u>

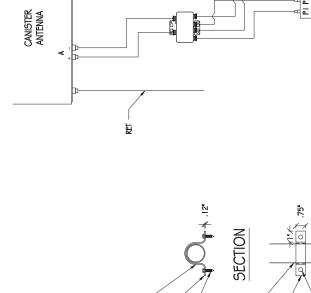
POWER AND TELCO NOTES:

- 1. 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 WORKMATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK. ત્યં
- 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. ω;
- CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.

4.

- 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 ڧ
- 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.

ø.



PVC CONDUIT RISER SIZE AS PER DWGS

- New Atrt 100A, 120/240V, 1Pt 3W 42 Kaic Metter with Test Bytass Switch, 100A Main Metrenic Equip Type to Be Utility And Eursa Afrroyed Equipment]

2°C SCHEDULE 80 PVC CONDUIT WITH PULL ROPE, RUN UP (E) POLE OR AS SPECIFIED BY UTILITY

Σ

TO TELCO SOURCE PER PLAN

120/240V

ELECTRICAL EXISTING POWER POLE I 3W, IPH POWER GALV LAG SCREW TO WOOD POLE

R POLE

EXISTING POWER I 20/240V 3W, I

#2 AWG GROUND IN 1"
SCHEDULE 80 CONDUIT TO (N)
Ø% X I O' GROUND ROD PER
N.E.C. ARTICLE 250

(2) #10 AWG (MIN.) + (1) #2 AWG GND IN 2" SCHEDULE 80 CONDUIT

RRU

(2) #1 AWG (MIN), (2) #6 AWG GND IN 2" SCHEDULE 80 CONDUIT

v ს

GALV CONDUIT STRAP

PVC CONDUIT RISER SIZE AS PER DWGS

GALV CONDUIT STRAP

BREAKER SCHEDULE

"GCRIPTION BREAKER

"EACER 100A

25A

25A

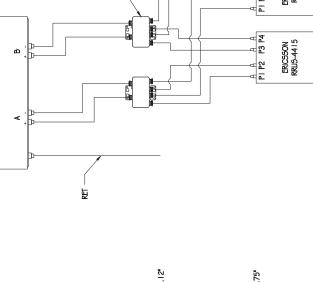
NO. DESCRIPTION

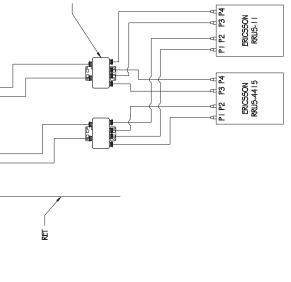
I MAIN BREAKER

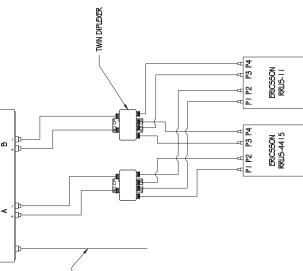
2 PSU #1

3 PSU #2

Ø 0.281" HOLE









EXOTHERMIC WELD DETAILS 4 SEN

GALYANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)

NOTES:

POLE GROUNDING DETAIL

2. EXPOSED CONCRETE TO HAVE BROOM FINISH

. IF GROUND ROD IS INSTALLED ON SIDEWALK AREA, CORE DRILL SIDEWALK PRIOR TO INSTALLING INSPECTION WELL

2'-0" TYP ON EA SIDE OF POLE

TYP CADWELD

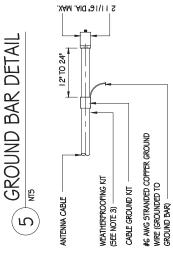
Ø%" X 10' GROUND ROD

- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
- 5,6º 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 TOWERMONOPINE STRUCTURE. CONNECTION TO TOWERMONOPINE STRUCTURE. SHALL BE FER MANUFACTURERS RECOMMENDATIONS.

CRAN_RSFR_LOSAO_05

ROW ADJCT TO 49 SAN JUAN CT LOS ALTOS, CA 94022

DATE DESCRIPTION CD 30/18 CD 30% ISSUE STATUS



	do not install cable ground kit at a bend and always direct ground wire down to ground bar.
2	

WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.) GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

GND KIT DETAIL

١





TYPE NC

TYPE TA

k₩ 0.67 0.52 ≸

MAX TRANSMIT POWER

TX/RX 21/2R 2T/2R ≸

LOAD SCHEDULE

4 X 40W 2 X 40W ≸

520 ≥ 079

≸

40 LBS (MAX)

DISCONNECT RRUS RRUS

> NEMA 3R ENCLOSURE ERICSSON RRUS-11

55 LBS 46 LB5

16.5" X 13.4" X 5.9" 19.7" X 17.0" X 7.2" 12.7" X 8.9" X 4.3"

DIMENSIONS

DESCRIPTION

QUANTITY

MAKEMODEL

ERICSSON RRUS-4415



TYPE GL LUIG

TYPE XA

FINISH SURFACE COMPOUND DIRT, GRAVEL OR OTHER

(E) POLE

RESTORE SURFACE TO ORIGINAL CONDITION

GROUNDING CONDUIT OR HALF ROUND

TEST WELL WITH HAND REMOVABLE COVERED LABELED 'GROUND ROD' (G-6" PVC OR CHRISTY FI 4 BOX W/ ADAPTERS # EXTENSIONS AS REQUIRED OR EQUIV)

TEST LOOP 8" MAX BELOW GRADE

NIW "9-

(E) GRADE







CONDUIT RISER DETAIL

SINGLE-LINE DIAGRAM

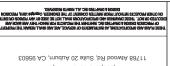
ELEVATION



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ISSUE STATUS	DESCRIPTION	%06 CD
ISSUE	DATE	81/08/01

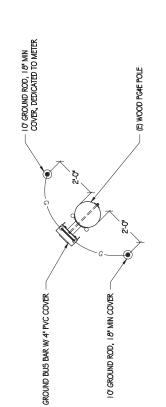
	z								
SOUE STALUS	DESCRIPTION	%06 CD			T. JONES	T. DICARLO	B. McCOMB	10/30/18	
ISSUE:	DATE	10/30/18						_	
	◁				DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	

10/30/18 Sheet title:

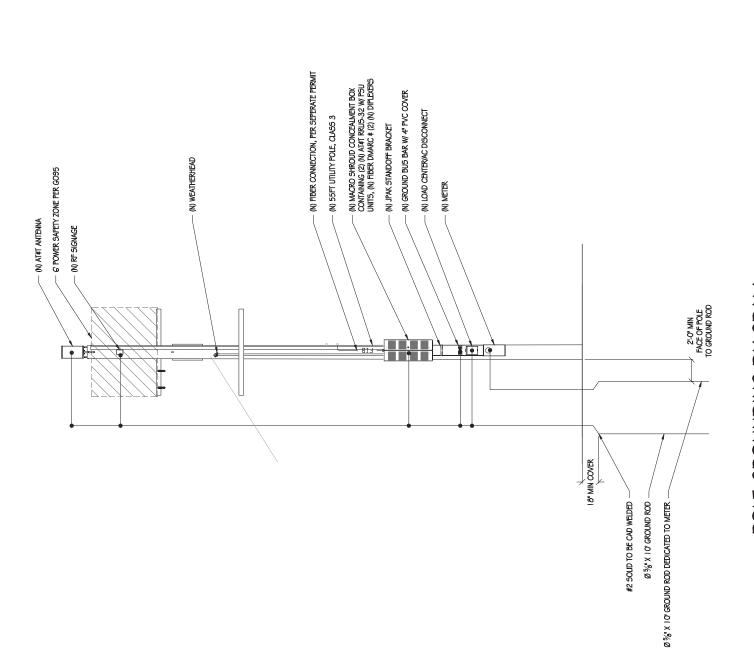
GROUNDING DIAGRAMS SHEET NUMBER

E-2

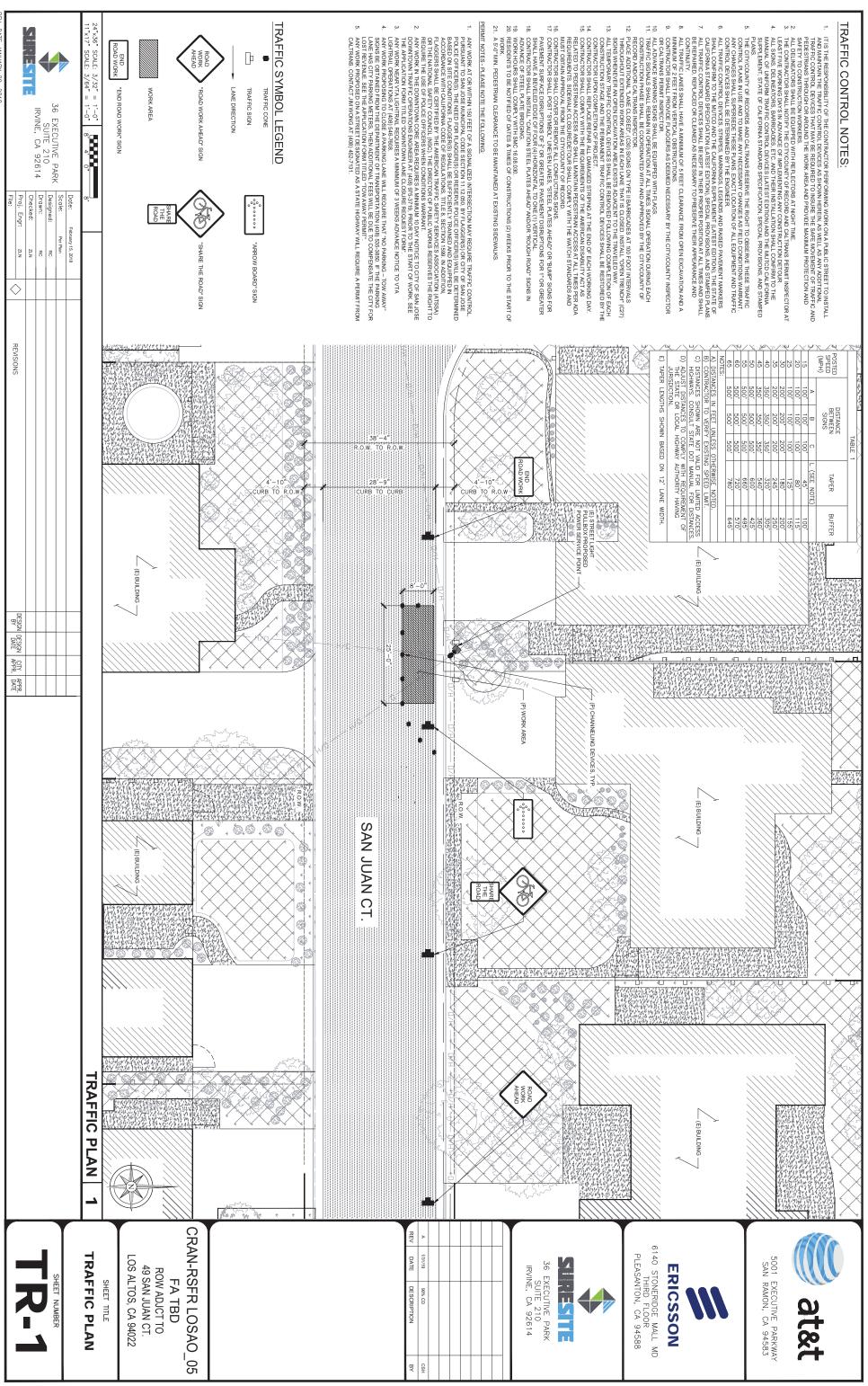








POLE GROUNDING DIAGRAM





CRAN RSFR LOSAO 05 SITE ID:

49 SAN JUAN CT SITE ADDRESS:

LOS ALTOS, CA 94022

114474352 PM#:

SITE TYPE: BRAND NEW PG&E POLE #TBD

POLE OWNER: PG&E

14816594 FA LOCATION:

198295 USID:

SITE INFORMATION

APPLICANT: AT#T MOBILITY 5001 EXECUTIVE PARKWAY

SAN RAMON, CA 94583

SURESITE 36 EXECUTIVE PARK, SUITE 210

AGENT:

IRVINE, CA 92614 ADJCT TO 170-13-045

LOS ALTOS, CA 94022

CITY OF LOS ALTOS

SITE ADDRESS: 49 SAN JUAN CT

COUNTY: SANTA CLARA

37° 23' 45.20" N (37.3958889) NAD 83 LATITUDE:

LONGITUDE: 122° 06' 47.63" W (-122.1132306) NAD 83

LOCAL

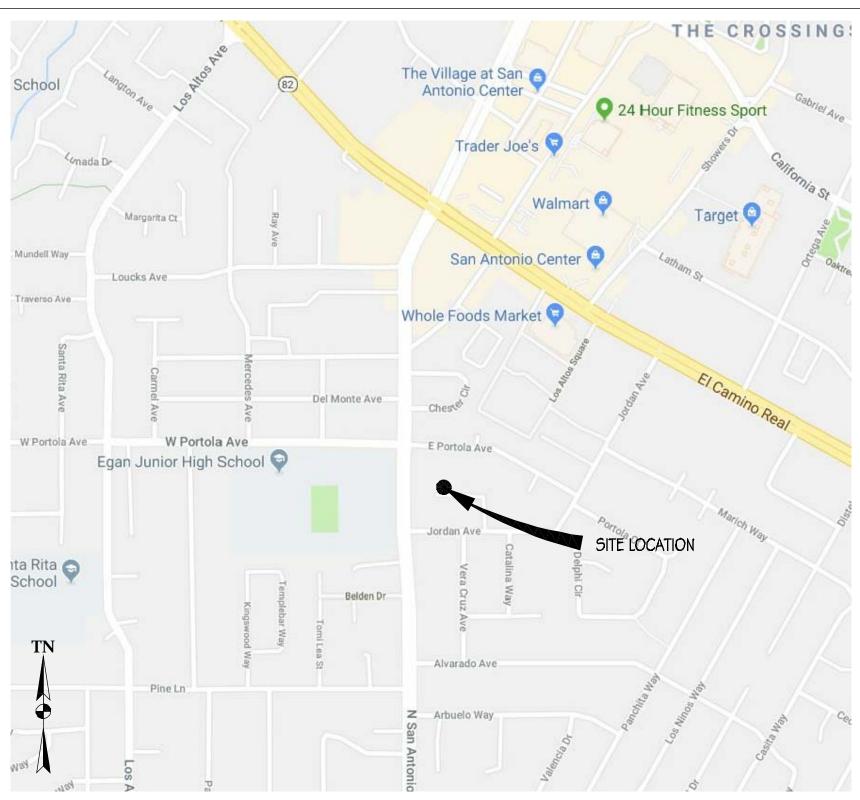
GROUND ELEVATION: ±94.9' AM5L ZONING: **PUBLIC ROW**

PG¢E SAP ID: 100508817

STREET CLASSIFICATION:

ZONING JURISDICTION:

VICINITY MAP



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

500 I EXECUTIVE PARKWAY, SAN RAMON, CA 94583 49 SAN JUAN CT, LOS ALTOS, CA 94022

1.	HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR	256	F
2.	TURN RIGHT ONTO SUNSET DR	Q.I	Ν
3.	USE THE MIDDLE LANE TO TURN RIGHT ONTO BOLLINGER CANYON RD	0.3	M
4.	USE THE RIGHT LANE TO MERGE ONTO 1-680 S VIA THE RAMP TO SAN JOSE	0.3	M
5.	MERGE ONTO I-680 5	21.5	M
6.	TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-880	0.2	M
7.	KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO CA-262		
	S/MISSION BLVD	0.3	M
8.	MERGE ONTO CA-262 S/MISSION BLVD	0.6	M
9.	USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD INTERSTATE 880 S/SAN JOSE	0.9	M
10.	MERGE ONTO I-880 S	3.1	M
11.	USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW	0,9	M
12.	CONTINUE ONTO CA-237 W	8.4	M
13.	KEEP LEFT TO CONTINUE ON CA-237 W/SOUTHBAY FWY	0.5	M
14.	TURN RIGHT ONTO EL CAMINO REAL	2.3	M
15.	TURN LEFT ONTO JORDAN AVE	0.4	M

END AT: 49 SAN JUAN CT, LOS ALTOS, CA 94022

16. TURN RIGHT ONTO SAN JUAN CT

ESTIMATED TIME: 50 MINS ESTIMATED DISTANCE: 39.9 MI

PROJECT TEAM

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

At all services & grounding trenches, provide

NATIONWIDE UNDERGROUND SERVICE ALERT

"CALL BEFORE YOU DIG"

811/800-227-2600

" WARNING" tape at 12" below grade.

(720) 317-7282

469 FT

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:

- . 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-4415 \$ (1) RRUS-11 W/ PSU UNITS, (2) DIPLEXERS, \$ (1) KMW FX-OM2L10H2-06T 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

TITLE SHEET

GENERAL NOTES, LEGEND, & ABBREVIATIONS

SITE PLAN A-1

EQUIPMENT PLAN & ANTENNA PLANS

ELEVATIONS ELEVATIONS

DETAILS

DETAILS

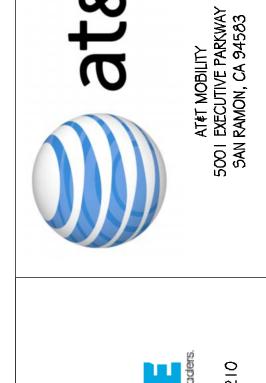
SINGLE-LINE DIAGRAM & DETAILS

GROUNDING DIAGRAMS

TRAFFIC CONTROL PLAN

ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS \$ (E) DIMENSIONS \$ CONDITIONS ON THE JOB SITE \$ SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11" X 17" PLOT, DRAWINGS WILL BE HALF SCALE



at&t





CRAN RSFR LOSAO 05

49 SAN JUAN CT LO5 ALTO5, CA 94022

ISSUE STATUS

△ DATE DESCRIPTION

	10/30/1	3	CD 90%	
	07/25/1	9	CD 100%	
				_
DRAWN	I BY:	T	. JONES	
CHECK	ED BY:	T	. DiCARLO	
APPRO	VED BY:	E	В. МсСОМВ	
DATE:		(7/25/19	

TITLE SHEET

SHEET TITLE:

SHEET NUMBER

GENERAL CONSTRUCTION NOTES

- 1. 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.
- 2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 3. 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.
- 4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 5. 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.
- 6. 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 CARJOUS 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.
- 7. 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.
- 8. 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 PREFORMED 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.
- II. 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 AT&T WIRELESS SPECIFICATIONS.

SYMBOLS LEGEND

- 15. ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHTUDOWN SIGNAGE) 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.
- 16, FCNDATED RF WAC MARNING 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.

GROUT OR PLASTER

(E) BRICK

(E) MASONRY

CONCRETE

EARTH

PLYWOOD

SAND

STEEL

CENTERLINE

MATCH LINE

WORK POINT

COAXIAL CABLE

WOOD CONT.

WOOD BLOCKING

PROPERTY/LEASE LINE

GROUND CONDUCTOR

OVERHEAD SERVICE

CHAIN LINK FENCING

OVERHEAD TELEPHONE/OVERHEAD

OVERHEAD TELEPHONE LINE

OVERHEAD POWER LINE

POWER RUN

—— C□AX ——

——OHT/OHP——

——— OHT ———

—— P ——

- 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.

NEW ANTENNA

GROUND ROD

EXISTING ANTENNA

GROUND BUSS BAR

MECHANICAL GRND, CONN.

GROUND ACCESS WELL

ELECTRIC BOX

TELEPHONE BOX

FND. MONUMENT

SPOT ELEVATION

GRID REFERENCE

DETAIL REFERENCE

ELEVATION REFERENCE

SECTION REFERENCE

SET POINT

REVISION

LIGHT POLE

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.
- 5. 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 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,
- 2. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- 3. CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - -AMERICAN CONCRETE INSTITUTE (ACI) 3 1 8, 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 CG2.41, 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-1 275 GENERAL INSTALLATION REQUIREMENTS
- 5. ANY AND ALL OTHER LOCAL \$ STATE LAWS AND REGULATIONS

T TELCO RUN

----- G ----- GROUNDING CONDUCTOR

——— — — GROUNDING CONDUCTOR

--- CONDUIT UNDERGROUND

FUSE, SIZE AND TYPE AS INDICATED.

NEMA 3R ENCLOSURE

#WSW232T

ENCLOSURE, SQ D CATALOG NO. H222NRB

SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R

MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE,

LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W,

SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG

LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/95W,

LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL

EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG

LIGHTING FIXTURE, HALQGEN, QUARTZ, 1/300W, HUBBELL

5/8" X 10'-0", CU. GND ROD 18" MIN. BELOW GRADE,

LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336

EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING,

MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307

OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121

W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB

COMBINATION, EXIT SIGN & EMERGENCY LIGHTING,

LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG

HUBBELL LIGHTING CATALOG #PRC

#HEG-50-2-R91

#BRH-100-06-1

LIGHTING CATALOG #QL-505

SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG

TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

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.

5/8" X 10'-0" ,CU, GND ROD IN TEST WELL 18" MIN.

BELOW GRADE.

CHEMICAL GROUND ROD (XIT GROUND ROD)

CADWELD CONNECTION

MECHANICAL CONNECTION

HALO GROUND CONNECTION

CIRCUIT BREAKER

UTILITY METER BASE

STEP-DOWN TRANSFORMER

RECEPTACLE, 2P-3W-125V-15A, DUPLEX,

TOGGLE SWITCH, IP-125V-15A,

HUBBELL CATALOG #HBL 1201CN

(N) POLE MOUNTED XFMER

(E) POLE MOUNTED XFMR

(N) PAD MOUNTED XFMER

(E) PAD MOUNTED XFMER

TOGGLE SWITCH, IP-120V-15A, "WP"

IONIZATION SMOKE DETECTOR WALARM HORN \$

AUXILIARY CONTACT, 120 VAC, GENTEX PART NO.

GROUND TYPE, HUBBELL CATALOG #5362

TRANSFORMER

POLE

GENERAL TRENCHING NOTES

- . MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- 2. MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM I" 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.
- 5. IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- 6. IN DIRT SLURRY 18" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BALANCE
- 7. WARNING TAPE TO BE PLACED IN TRENCH 12* ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE RING.

GENERAL GROUNDING NOTES

- . 5/8" x 10' ROD, CAD WELD BELOW GRADE
- 2. 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 PBMD OR STRONG BOX.
- 6. WOOD MOULDING, STAPLED EVERY 3' AND AT EACH END, UNLESS OTHERWISE NOTED.

GENERAL CONDUIT NOTES

- I, ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- 3. SCHEDULE 80 CONDUIT FOR RISER USE.
- 4. 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

- 1. 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"
- 4. ALL HOLES IN POLE LEFT FROM REARRANGEMENT OF CLIMBERS TO BE FILLED.
- 5. 90° SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST TRANSITION ON THE INSIDE OR BOTTOM OF THE ARM (NO CABLE ON TOP OF ARM).
- 6. USE 90° CONNECTOR AT CABLE CONNECTION FOR OMNI DOWN ANTENNAS.
- 7. USE CABLE CLAMPS TO SECURE CAB;LE 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.
- 9. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION,

ABBREVIATIONS

HPS

HIGH PRESSURE SODIUM

λ.	AN ADEDE	ler.	UEIOUE
A AB	AMPERE ANCHOR BOLT	HT ICGB	HEIGHT ISOLATED COPPER GROUND BUSS
ABV	ABOVE	IN, (")	INCH(E5)
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT	INTERIOR
add'l Aff	ADDITIONAL ABOVE FINISHED FLOOR	LB, (#)	POUND(5)
AFG	ABOVE FINISHED GRADE	lag Le	LAG BOLTS LINEAR FEET (FOOT)
AIC	AMPERE INTERRUPTING CAPACITY	Ľтн	LENGTH
ALUM	ALUMINUM	L	Long(Itudinal)
alt Ant	alternate Antenna	LPS	LOW PRESSURE SODIUM
APPROX	APPROXIMATE(LY)	MAS MAX	MASONRY MAXIMUM
ARCH	ARCHITECT(URAL)	MB	MACHINE BOLT
AT	AMPERE TRIP	MECH	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MFR	MANUFACTURER
BATT BD	BATTERY BOARD	MIN	MINIMUM
BLDG	BUILDING	MISC MLO	MISCELLANEOUS MAIN LUGS ONLY
BLK	BLOCK	MTD	MOUNTED
BLKG	BLOCKING	MTG	MOUNTING
BM BN	BEAM BOUNDARY NAILING	MTL	METAL
BR	BRANCH	MT5 N	MANUAL TRANSFER SWITCH NEUTRAL
BRKR	BREAKER	(N)	NEW
BTCW	BARE TINNED COPPER WIRE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BTS	BASE TRANSMISSION SYSTEM BOTTOM OF FOOTING	NO, (#)	NUMBER
BOF B/U	BACK-UP CABINET	NTS	NOT TO SCALE
Č	CONDUIT	OH OC	OVERHEAD ON CENTER
CAB	CABINET	OPNG	OPENING
CANT	CANTILEVER(ED)	P	POLE
CB CIP	CIRCUIT BREAKER CAST IN PLACE	P/C	PRECAST CONCRETE
CKT	CIRCUIT	PCS PH	PERSONAL COMMUNICATION SERVICES
CLG	CEILING	rn PLY	Phase Plywood
CLR	CLEAR	PNLBD	PANELBOARD
COL	COLUMN	PPC	POWER PROTECTION CABINET
CONC CONN	CONCRETE CONNECTION(OR)	PRC	PRIMARY RADIO CABINET
CONST	CONSTRUCTION	PRI P9F	PRIMARY
CONT	CONTINUOUS	751 P 51	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
d	PENNY (NAIL5)	P T	PRESSURE TREATED
DBL	DOUBLE	PW R	POWER (CABINET)
DEM Dept	DEMAND DEPARTMENT	QTY	QUANTITY
DF	DOUGLAS FIR	RAD, (R) ROPT	RADIUS RECEPTACLE
DÍA	DIAMETER	REF	REFERENCE
DIAG	DIAGONAL	REINF	REINFORCEMENT(ING)
DIM	DIMENSION	R EQ'D	required
DWG DWL	Drawing(5) Dowel(5)	RG5	RIGID GALVANIZED STEEL
EA	EACH	SAF SCH	SAPETY SCHEDULE
EGR	EMERGENCY GENERATOR RECEPTACLE	SDBC	SOFT DRAWN BARE COPPER
EL .	ELEVATION	SEC	SECONDARY
ELEC ELEV	ELECTRICAL ELEVATOR	SHT	SHEET
EMT	ELECTRICAL METALLIC TUBING	SIM SN	SIMILAR SOLID NEUTRAL
EN	EDGE NAIL	SPEC	SPECIFICATION(S)
ENCL	ENCLOSURE	SQ	SQUARE
ENG	ENGINEER	55	STAINLESS STEEL
EQ EXST, (E)	EQUAL Existing	SID	STANDARD
EXP	EXPANSION	STL STRUC	STEEL STRUCTURAL
EXT	EXTERIOR	SURF	SURFACE
FAB	FABRICATION(OR)	SW	SWITCH
FAC F/A	FACTOR FIRE ALARM	TEL	TELEPHONE
fF	FINISH FLOOR	TEMP THK	TEMPORARY THICK(NESS)
FG	FINISH GRADE	TN	TOE NAIL
FIN	FINISH(ED)	TOA	TOP OF ANTENNA
FLR FLUOR	FLOOR FLUORESCENT	TOC	TOP OF CURB
FIDOR FDN	FOUNDATION	TOF	TOP OF FOUNDATION
FOC	FACE OF CONCRETE	TOP TOS	TOP OF PLATE (PARAPET) TOP OF STEEL
FOM	FACE OF MASONRY	TOW	TOP OF WALL
FO S	FACE OF STUD	TYP	TYPICAL
FOW F5	FACE OF WALL FINISH SURFACE	UG	UNDER GROUND
PT, (*)	FOOT (FEET)	UL	UNDERWRITERS LABORATORY INC.
FTG	FOOTING	UNO V	UNLESS NOTED OTHERWISE VOLT
FU	FUSE	VAC	VOLT ALTERNATING CURRENT
G CP	GROUND CRONATH (CARINET)	VIF	VERIFY IN FIELD
GR GA	Growth (Cabinet) Gauge	W	WATT OR WIRE
GEN	GENERATOR	WD	WIDE(MIDTH)
GALV	GALVANIZE(D)	W/ W/O	WITH WITHOUT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WD	WOOD
GLB CND	GLUE LAMINATED BEAM	ŴP	WEATHERPROOF
GND GP S	GROUND GLOBAL POSITIONING SYSTEM	WT	WEIGHT
GRND	GROUND	XFER	TRANSFER
HDBC	HARD DRAWN COPPER WIRE	XFMR XLPE	TRANSFORMER CROSS-LINK POLYETHYLENE
HDG	HOT-DIP GALVANIZE(D)	£	CENTERLINE
HDR HGR	HEADER HANCER	e	PLATE
HBC	HANGER		





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CRAN RSFR LOSAO 05

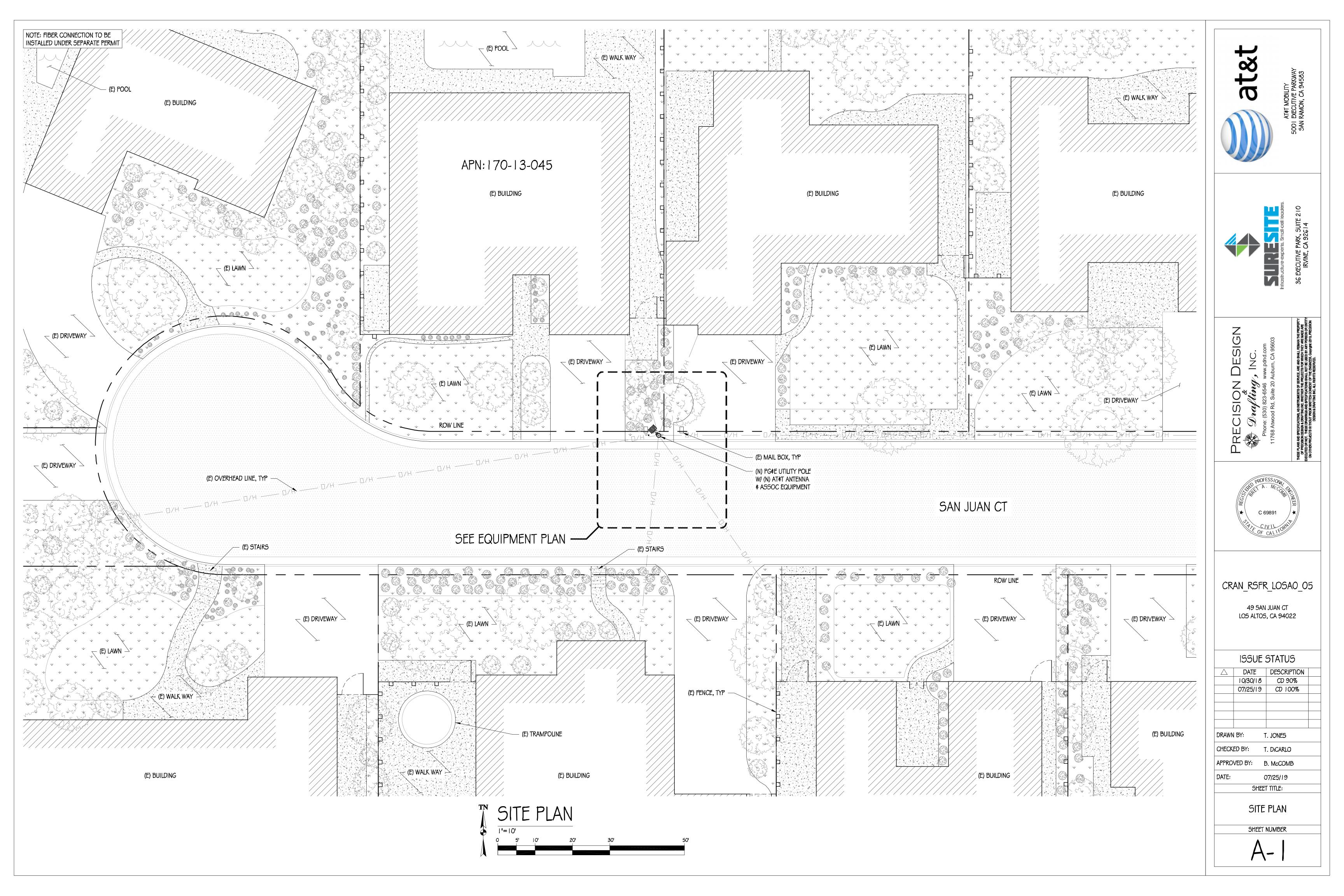
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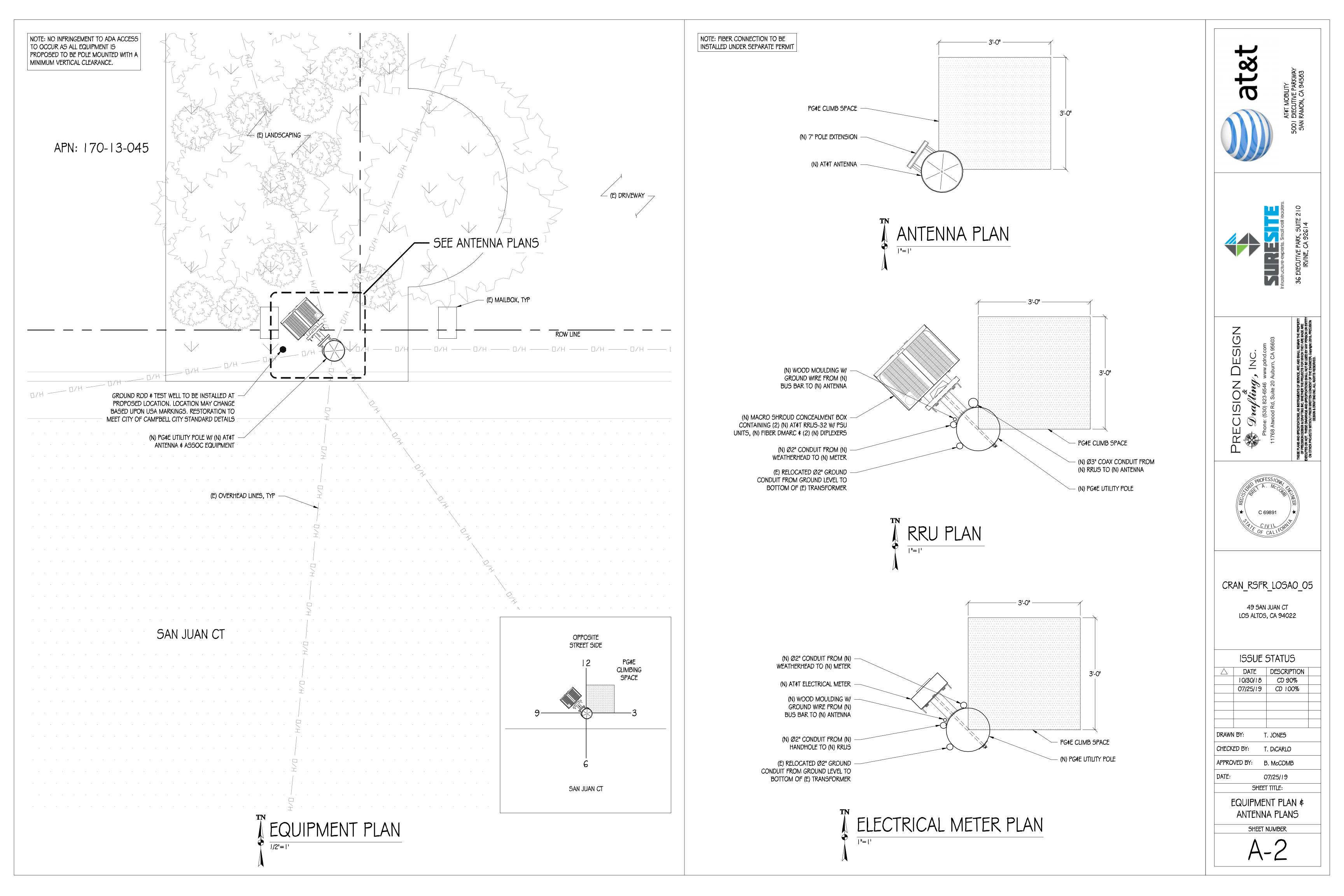
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\triangle	DATE	DESCRIPTION					
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	07/25/19	CD 100%					
RAWN BY:		T. JONE5					
HECKED BY:		T. DICARLO					
PPROVED BY:		В. МсСОМВ					
ATE:		07/25/19					
SHEET TITLE:							

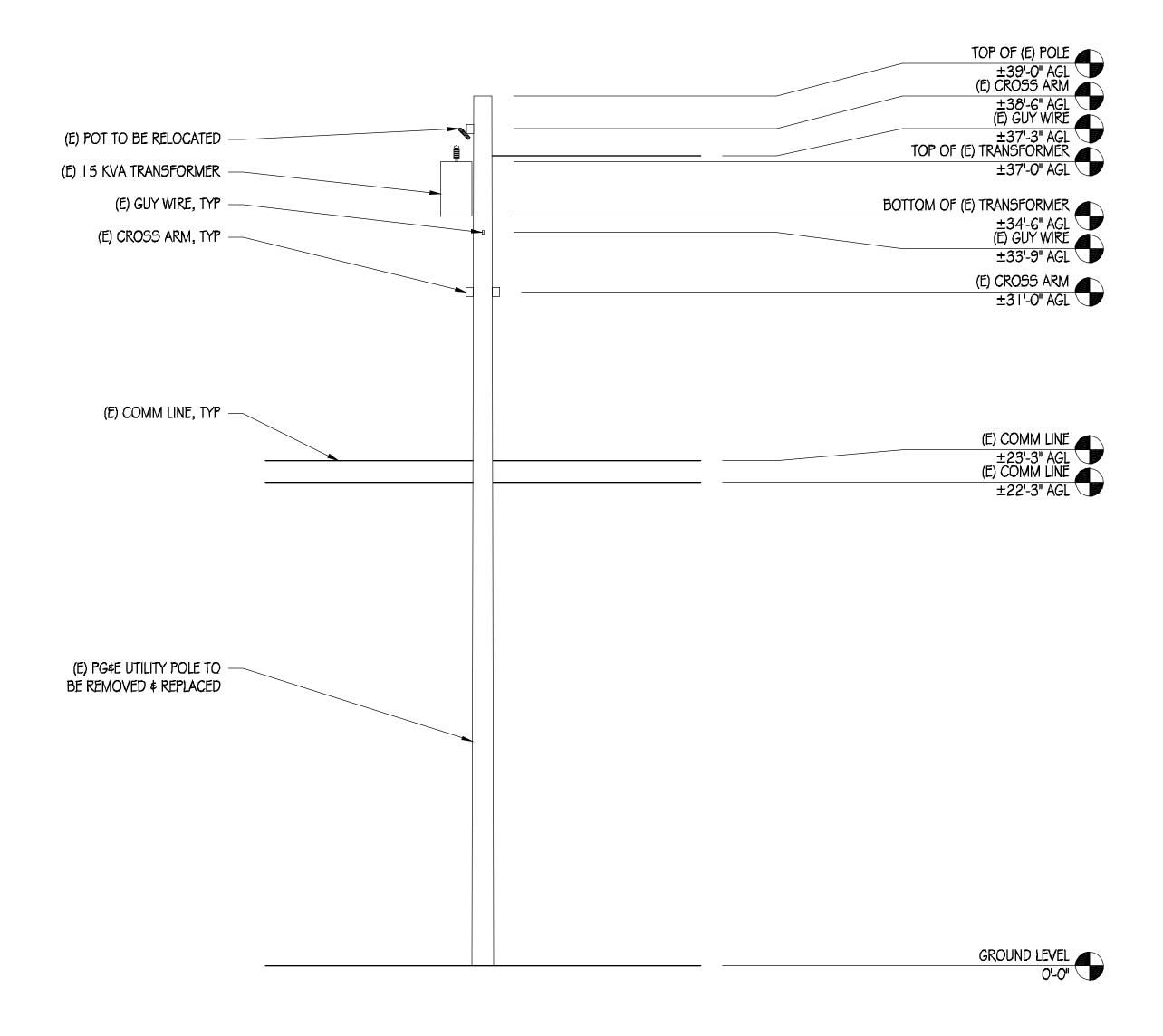
GENERAL NOTES, LEGEND, \$ ABBREVIATIONS

SHEET NUMBER

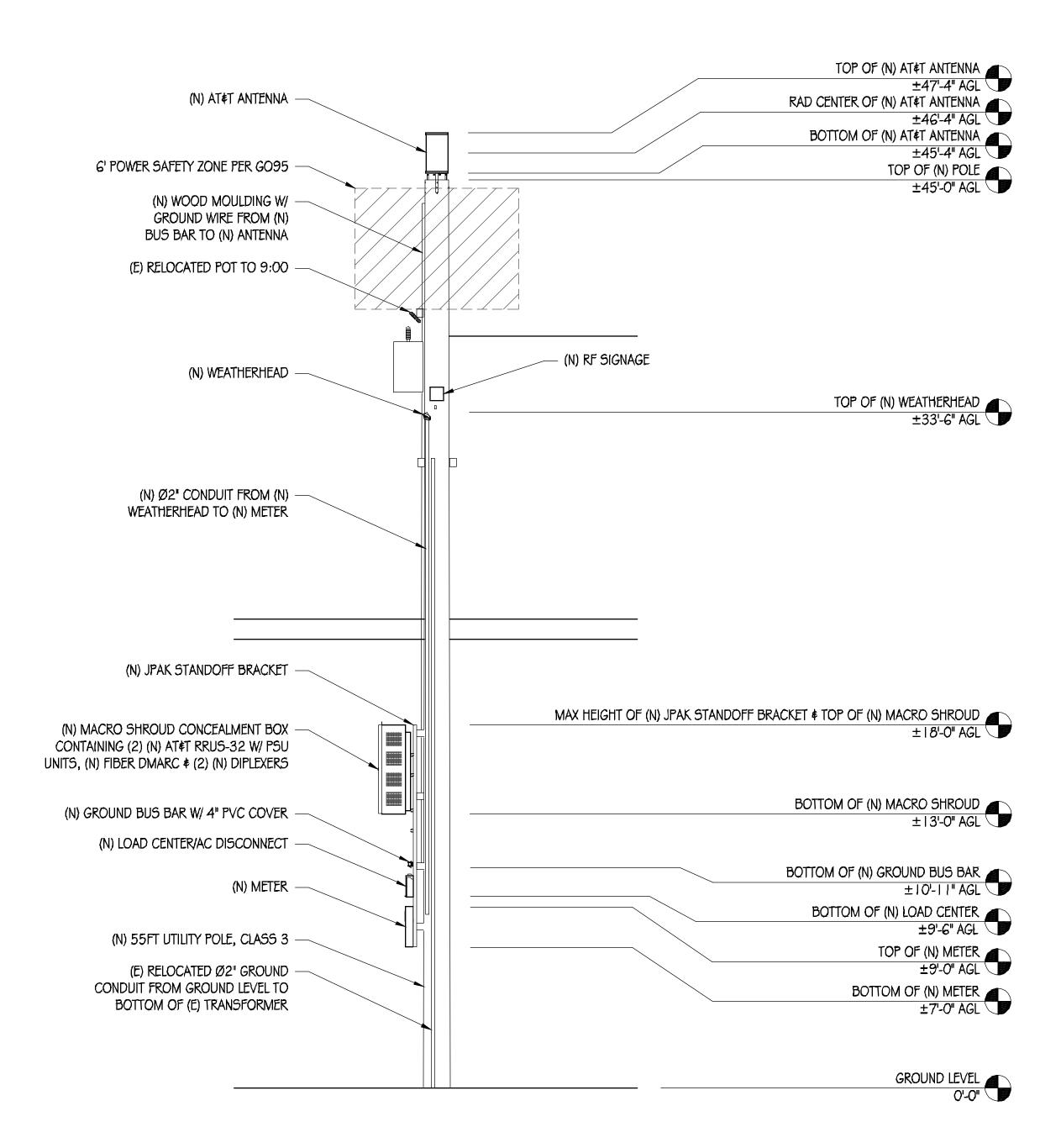
T-2







EXISTING NORTH ELEVATION | /4"=| '-0"

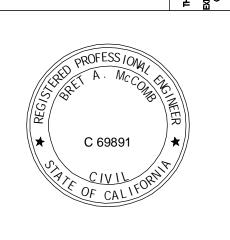


NEW NORTH ELEVATION

1/4"=1'-O"







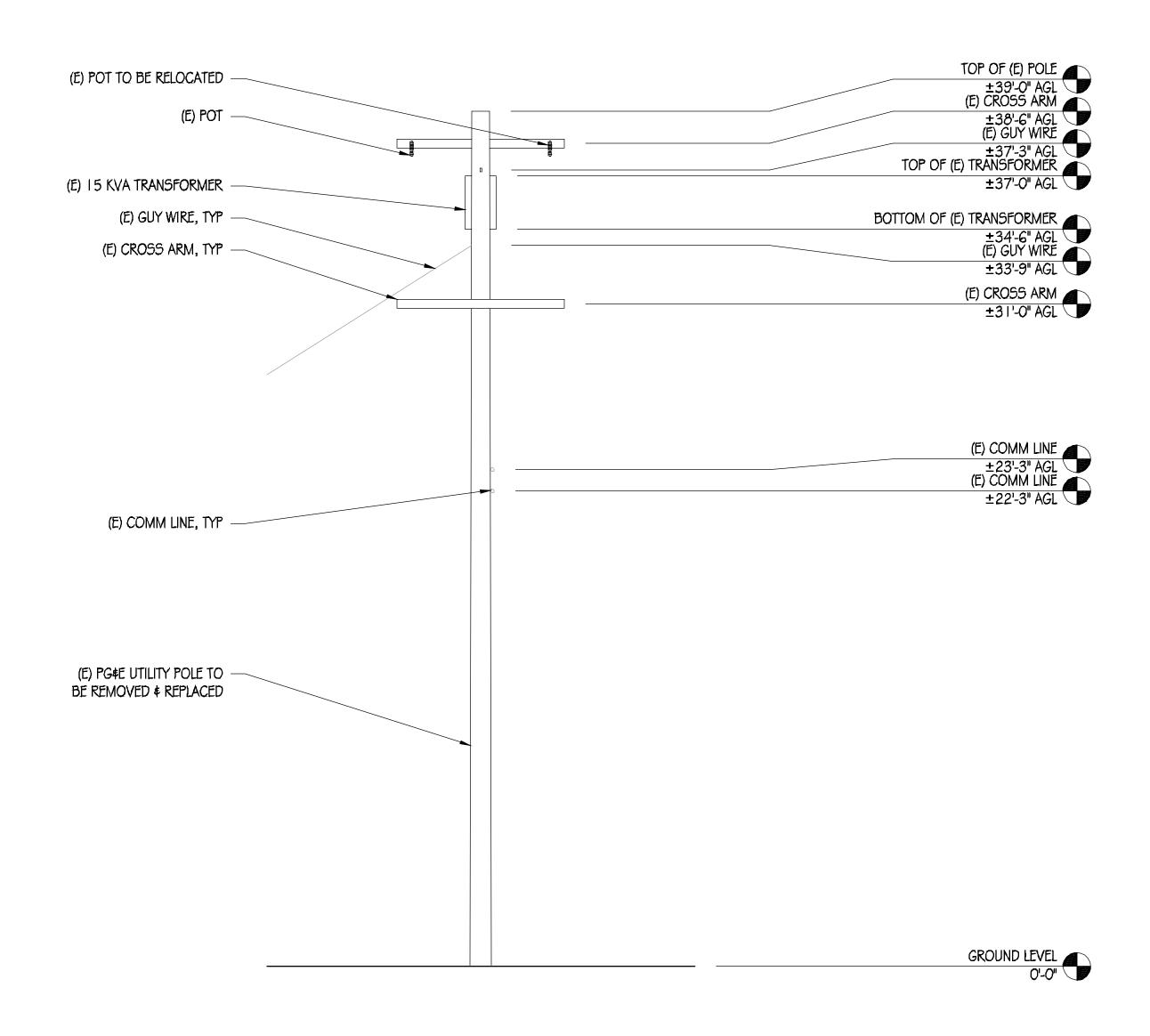
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49 5AN JUAN CT LO5 ALTO5, CA 94022

	ISSUE	STATUS		
\triangle	DATE	DESCRIPTION		
	10/30/18	CD 90%		
	07/25/19	CD 100%		
DRAWN	I BY:	T. JONES		
CHECK	ED BY:	T. DICARLO		
APPROVED BY:		В. МсСОМВ		
DATE:		07/25/19		
	SHE	ET TITLE:		

SHEET NUMBER

ELEVATIONS



TOP OF (N) AT\$T ANTENNA ±47'-4" AGL (N) AT&T ANTENNA RAD CENTER OF (N) AT&T ANTENNA ±46'-4" AGL 6' POWER SAFETY ZONE PER GO95 BOTTOM OF (N) AT&T ANTENNA ±45'-4" AGL TOP OF (N) POLE ±45'-0" AGL - (N) RF SIGNAGE (E) RELOCATED POT TO 9:00 (N) WEATHERHEAD TOP OF (N) WEATHERHEAD ±33'-6" AGL (N) Ø2" CONDUIT FROM (N) - (N) Ø3" COAX CONDUIT FROM WEATHERHEAD TO (N) METER (N) RRUS TO (N) ANTENNA (N) WOOD MOULDING W/ GROUND WIRE FROM (N) BUS BAR TO (N) ANTENNA - (E) RELOCATED Ø2" GROUND CONDUIT FROM GROUND LEVEL TO BOTTOM OF (N) 55FT UTILITY POLE, CLASS 3 (E) TRANSFORMER, BEYOND (N) MACRO SHROUD CONCEALMENT BOX CONTAINING (2) (N) AT&T RRU5-32 W/ PSU UNITS, (N) FIBER DMARC \$ (2) (N) DIPLEXERS MAX HEIGHT OF (N) JPAK STANDOFF BRACKET \$ TOP OF (N) MACRO SHROUD ± 18'-0" AGL (N) JPAK STANDOFF BRACKET (N) GROUND BUS BAR W/ 4" PVC COVER (N) LOAD CENTER/AC DISCONNECT BOTTOM OF (N) MACRO SHROUD ±13'-0" AGL BOTTOM OF (N) GROUND BUS BAR ± 10'-11" AGL BOTTOM OF (N) LOAD CENTER ±9'-6" AGL TOP OF (N) METER ±9'-0" AGL BOTTOM OF (N) METER ±7'-0" AGL GROUND LEVEL O'-O"

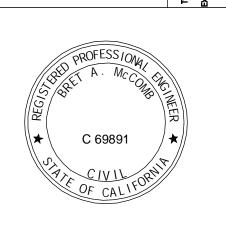
EXISTING EAST ELEVATION 1/4"=1'-0"

1/4"=1'-0"

NEW EAST ELEVATION







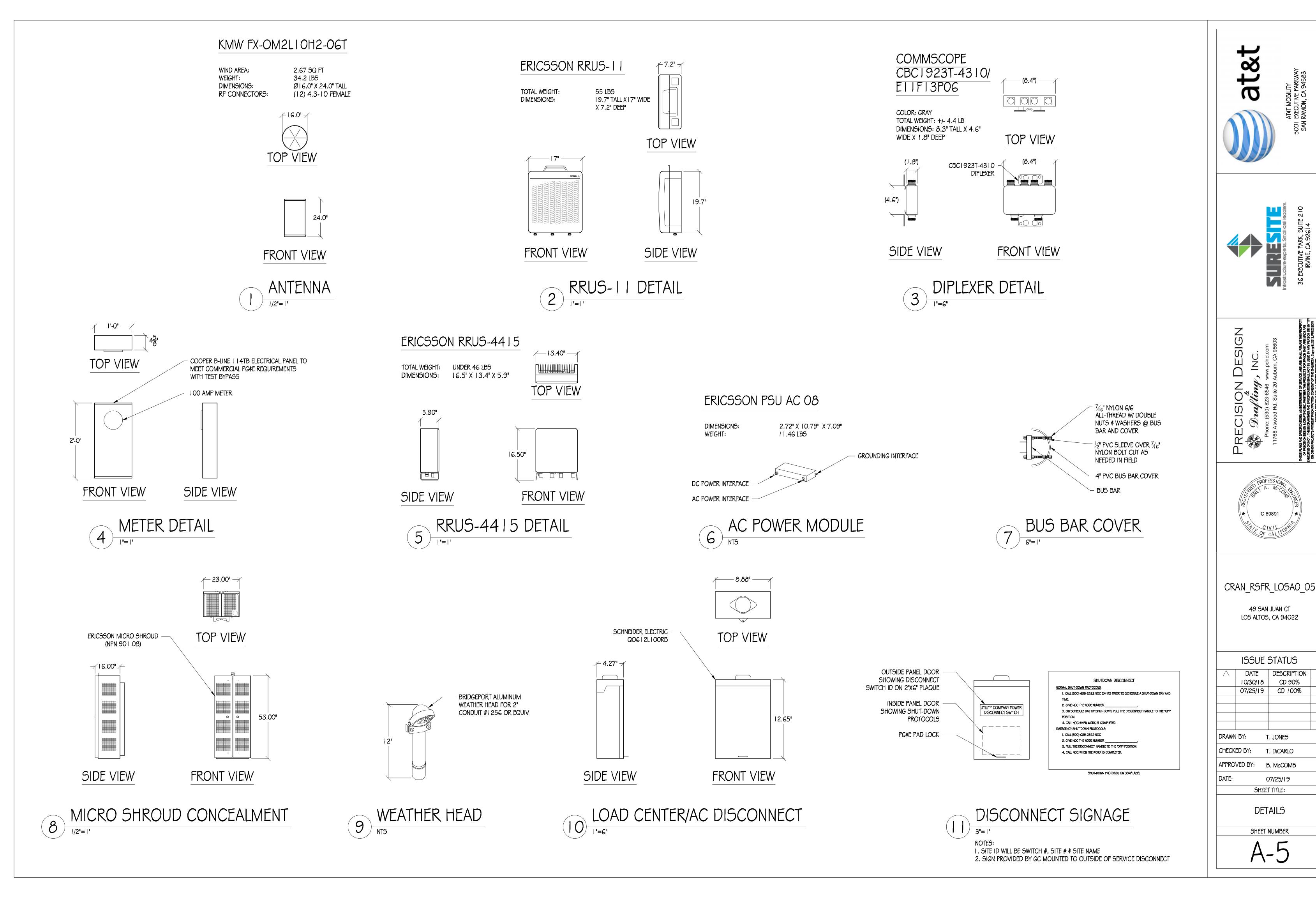
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	ISSU	E:	STATUS		
\triangle	DATE		DESCRIPTION		
	10/30/1	8	CD 90%		
	07/25/1	9	CD 100%		
DRAWN	I BY:	1	. Jones		
CHECK	ED BY:	1	. DICARLO		
APPROVED BY:		E	B. McCOMB		
DATE:		(07/25/19		
	Sh	IEE	TITLE:		

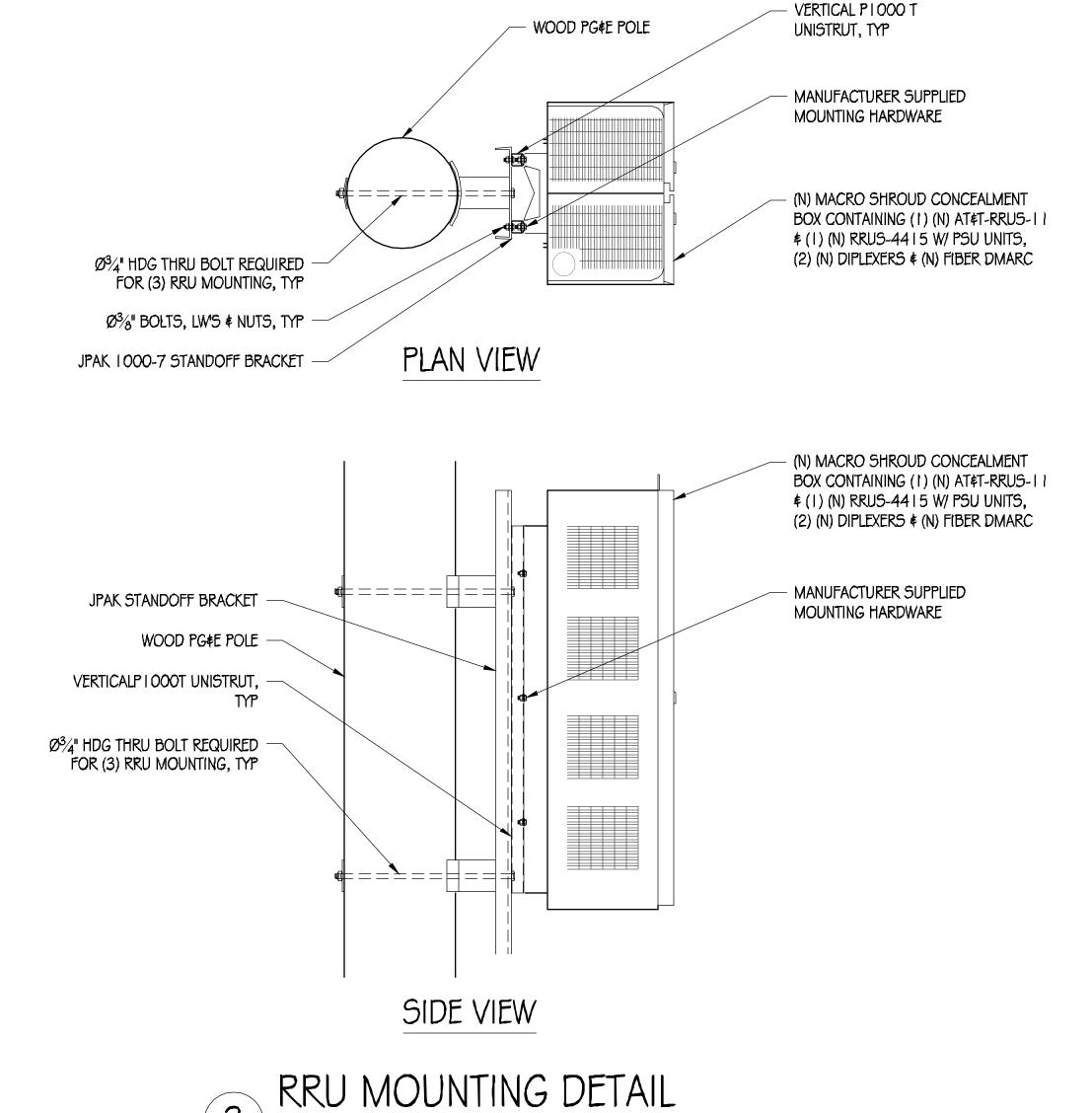
ELEVATIONS

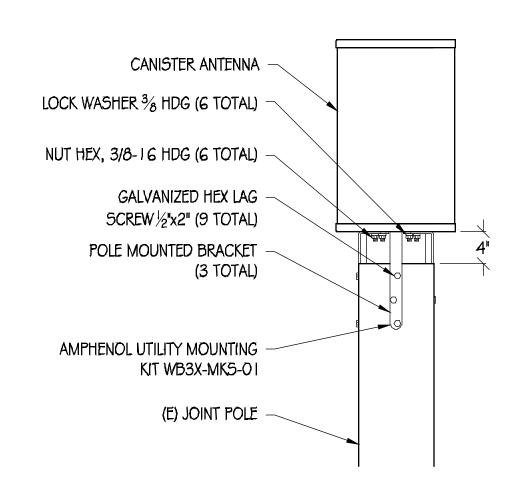
SHEET NUMBER



STRUCTURAL STEEL NOTES:

- I. 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.
- 2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) \sharp 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 5, GRADE B (F_Y =35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- 3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS DI.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.
- 4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- 5. 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.
- 6. THREADED RODS SHALL BE ASTM F593 CW 304/3 | 6 STAINLESS STEEL . BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, \$ SIZE OF BOLTS.
- 7. 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.
- 8. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A I 23 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.
- 9. 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.
- IO. AT ALL WEB STIFFENER PLATES LEAVE 3/4"Ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.

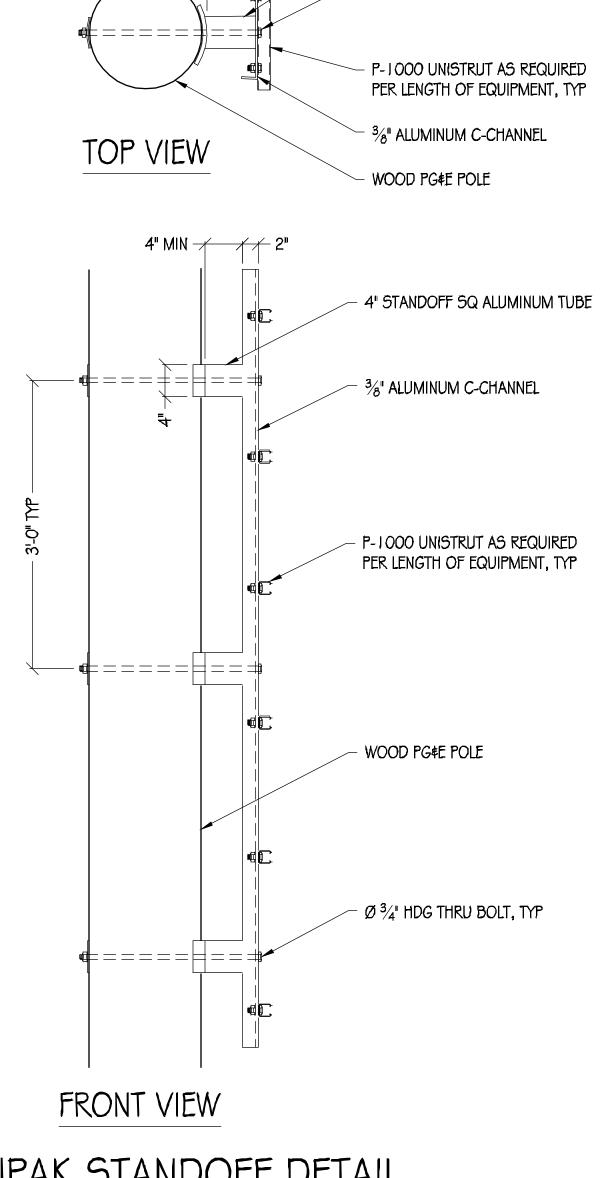




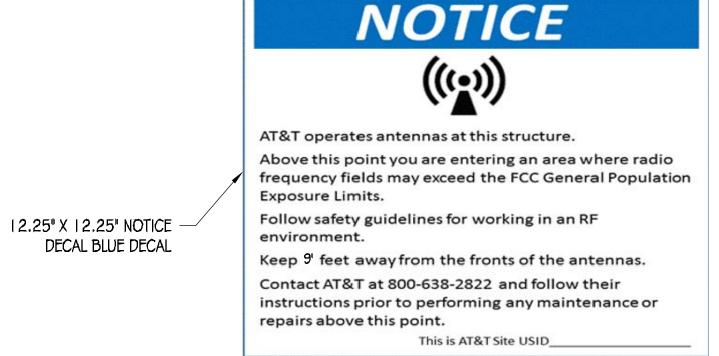
POLE-TOP ANTENNA MOUNT DETAIL

4" STANDOFF SQ ALUMINUM TUBE

- Ø ¾" HDG THRU BOLT, TYP



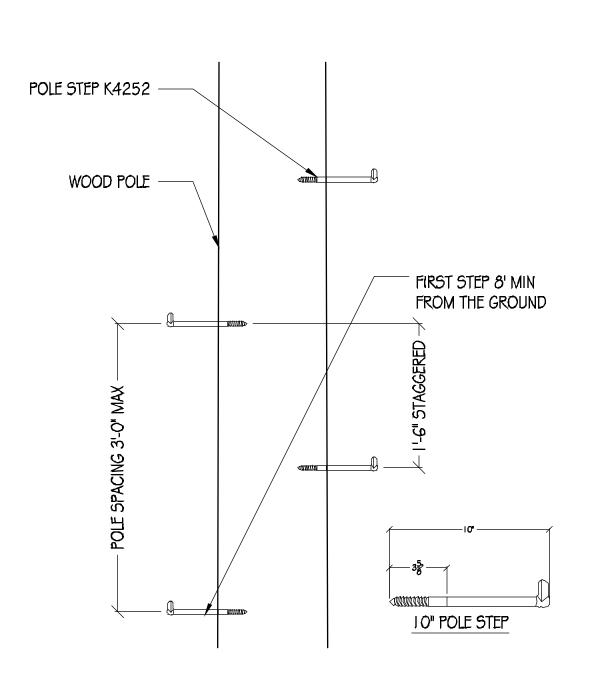
JPAK STANDOFF DETAIL

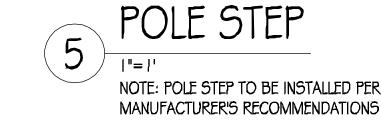




NOTES

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



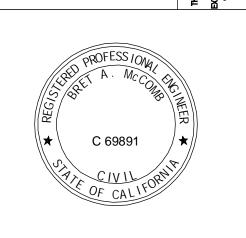






Phone: (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603

SER LANS AND SPECIFICATIONS, AS INSTRUMENTS OF SPROJECTS FOR WHICH THEY ARE MADE ARE
OF PRECISION DESIGN & DRAFTING INC. WHETHER THE PROJECTS FOR WHICH THEY ARE MADE ARE



CRAN RSFR LOSAO 05

49 5AN JUAN CT LO5 ALTOS, CA 94022

ISSUE STATUS					
△ DATE DESCRIPTION					
	10/30/18	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:

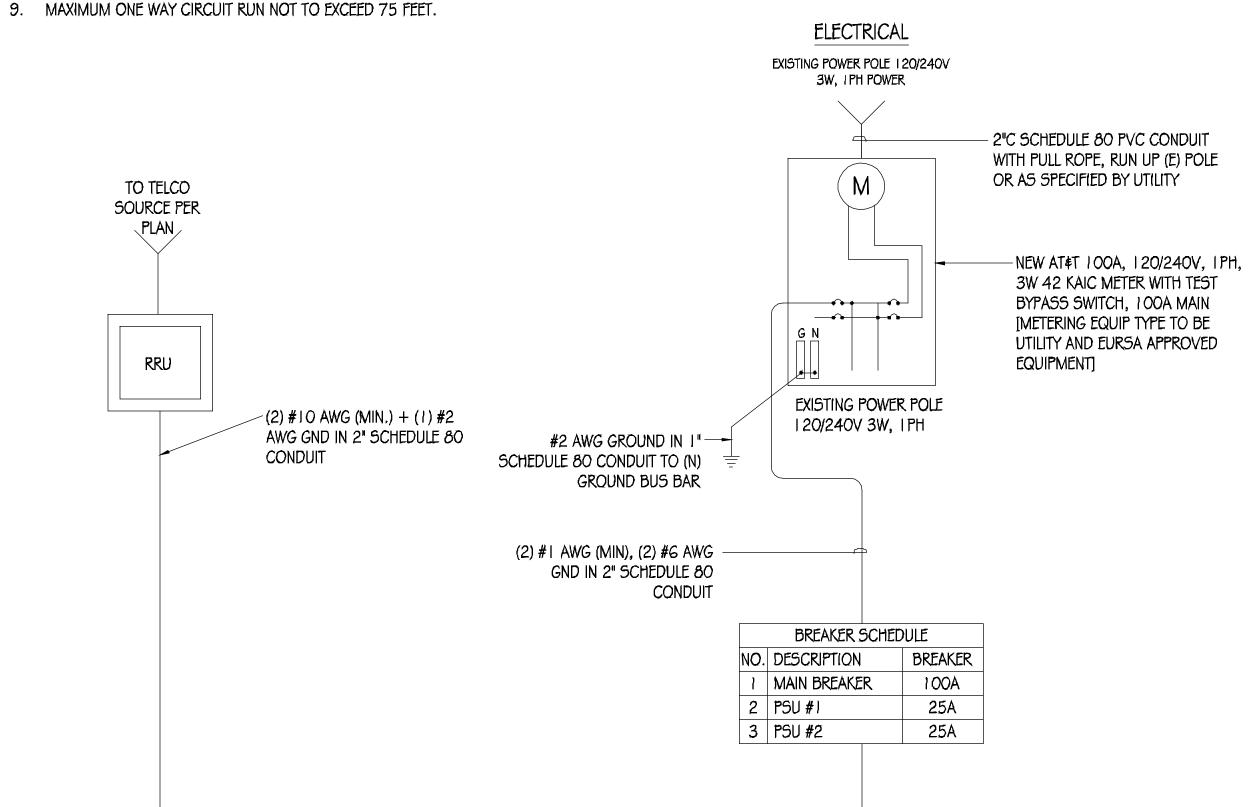
- 2. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MARSHALL. ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWRITERS LABORATORY (UL) 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 #G 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, SYDUAL 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:

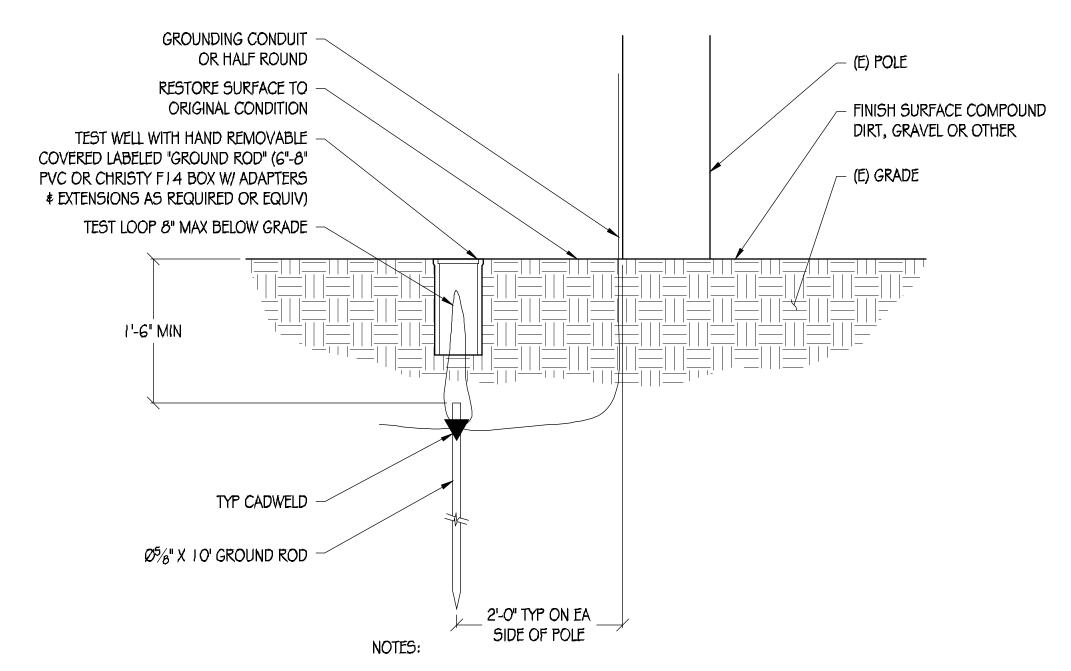
- I. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
- 2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE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

SINGLE-LINE DIAGRAM

- 8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
- 9 MAYIMLIM ONE WAY CIRCUIT RUN NOT TO EYCEED 75 FEET



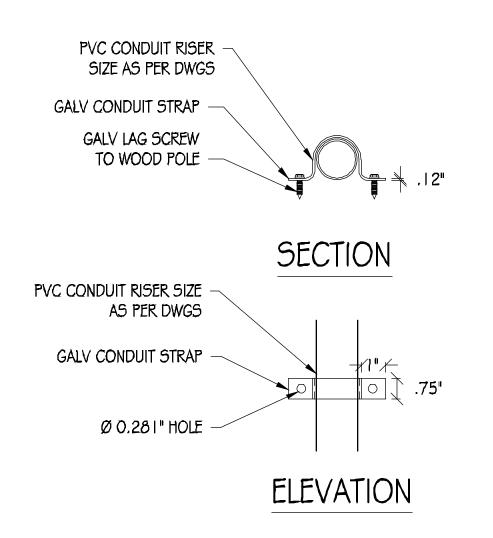




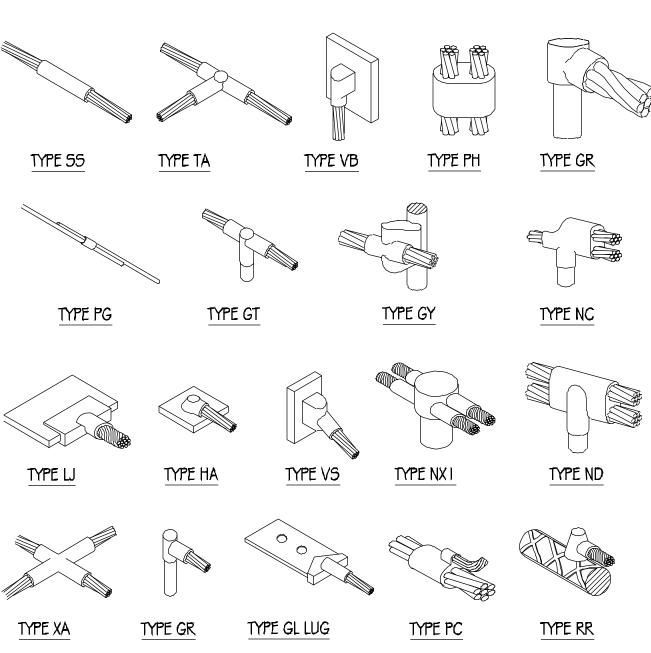
I. REMOVE & REPLACE SIDEWALK SECTION, RESTORATION TO MEET CITY STANDARD DETAILS

2. EXPOSED CONCRETE TO HAVE BROOM FINISH

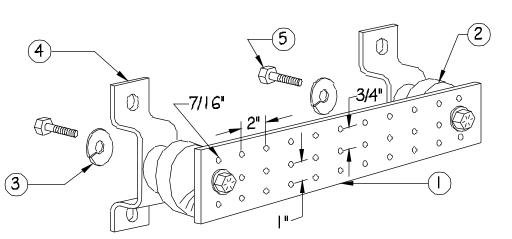
POLE GROUNDING DETAIL NTS



2 CONDUIT RISER DETAIL



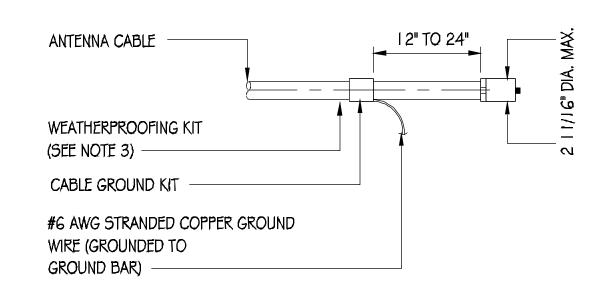
EXOTHERMIC WELD DETAILS



NOTES:

- I. 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 I" 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.





NOTES:

- I. 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.)







PRECISION DESIGN

Referans and specifications, as instruments of service, are and shall pregner

of precision designs, directly when the propers of precision on not. These praymings and specifications shall not be used by any pregnon on on the process without mency and precision on the process without mency and precision on the process.



CRAN RSFR LOSAO 05

49 SAN JUAN CT LOS ALTOS, CA 94022

ISSUE STATUS

DATE DESCRIPTION

10/30/18 CD 90%

07/25/19 CD 100%

DRAWN BY: T. JONES

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

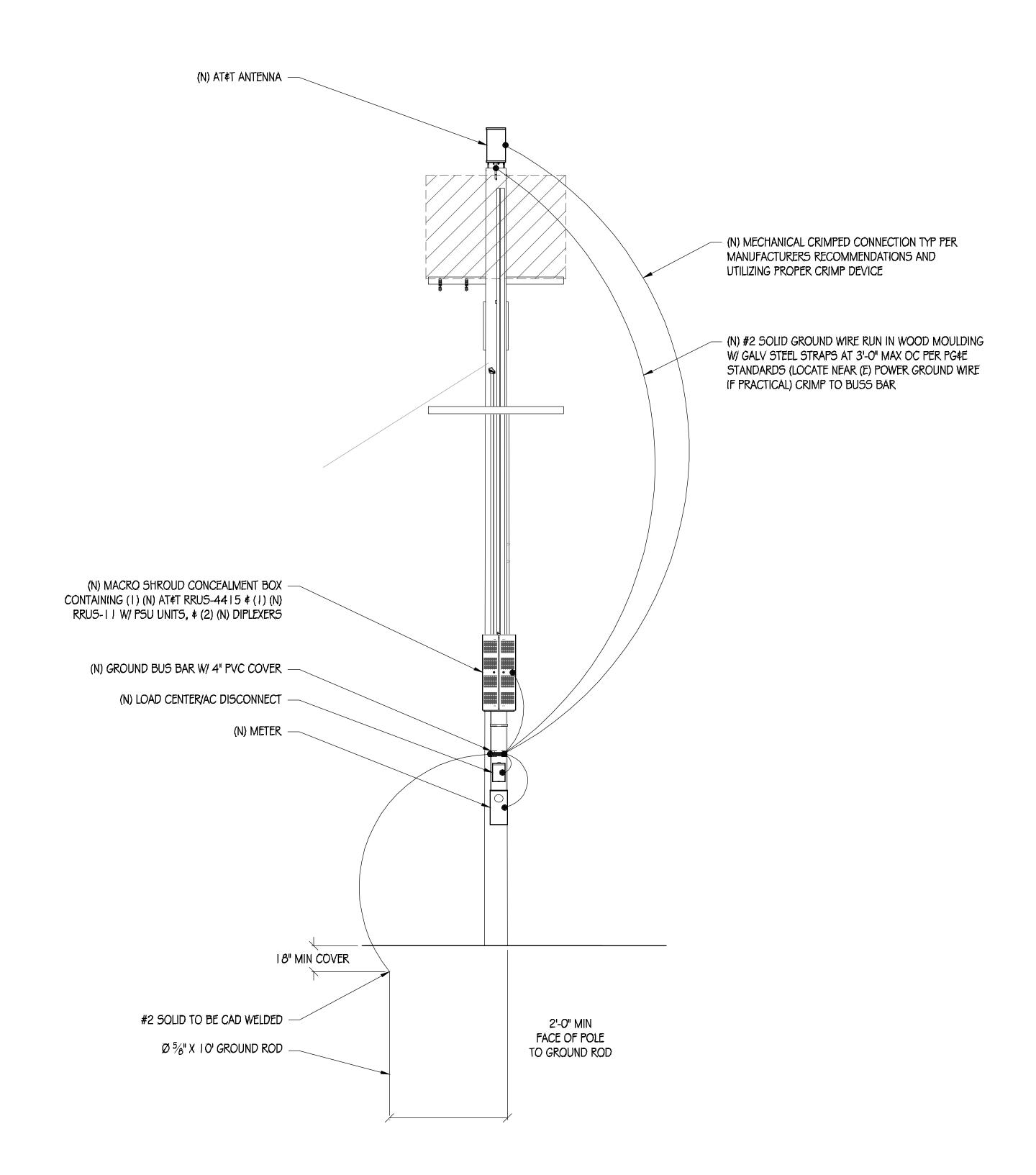
DATE: 07/25/19

SHEET TITLE:

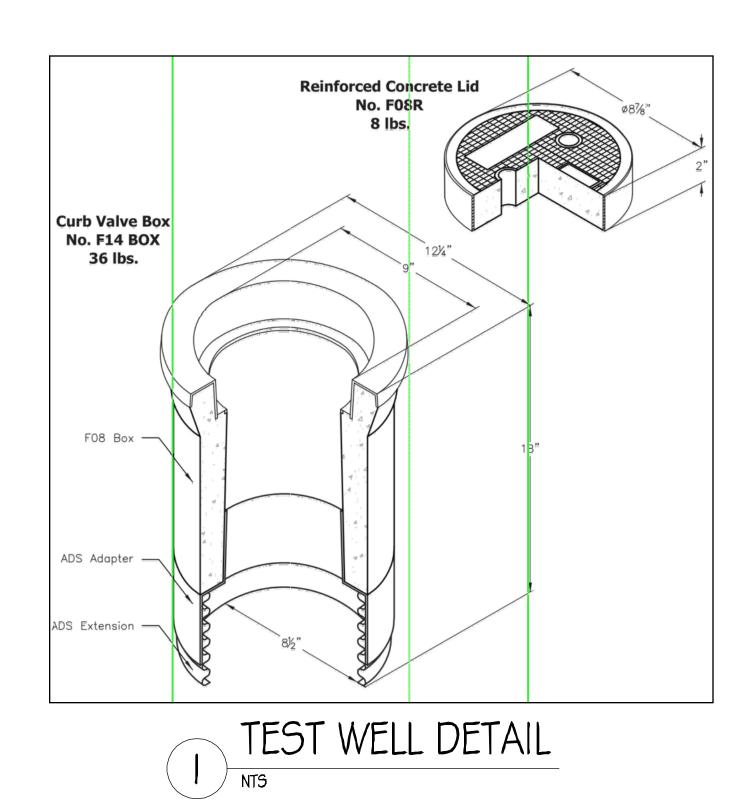
DETAILS
SHEET NUMBER

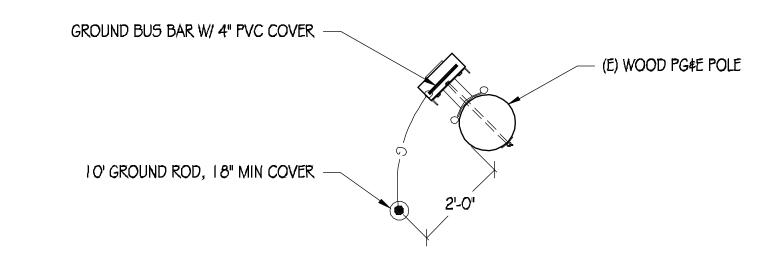
SINGLE-LINE DIAGRAM \$

F-1



POLE GROUNDING DIAGRAM

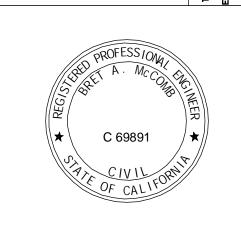












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49 SAN JUAN CT LOS ALTOS, CA 94022

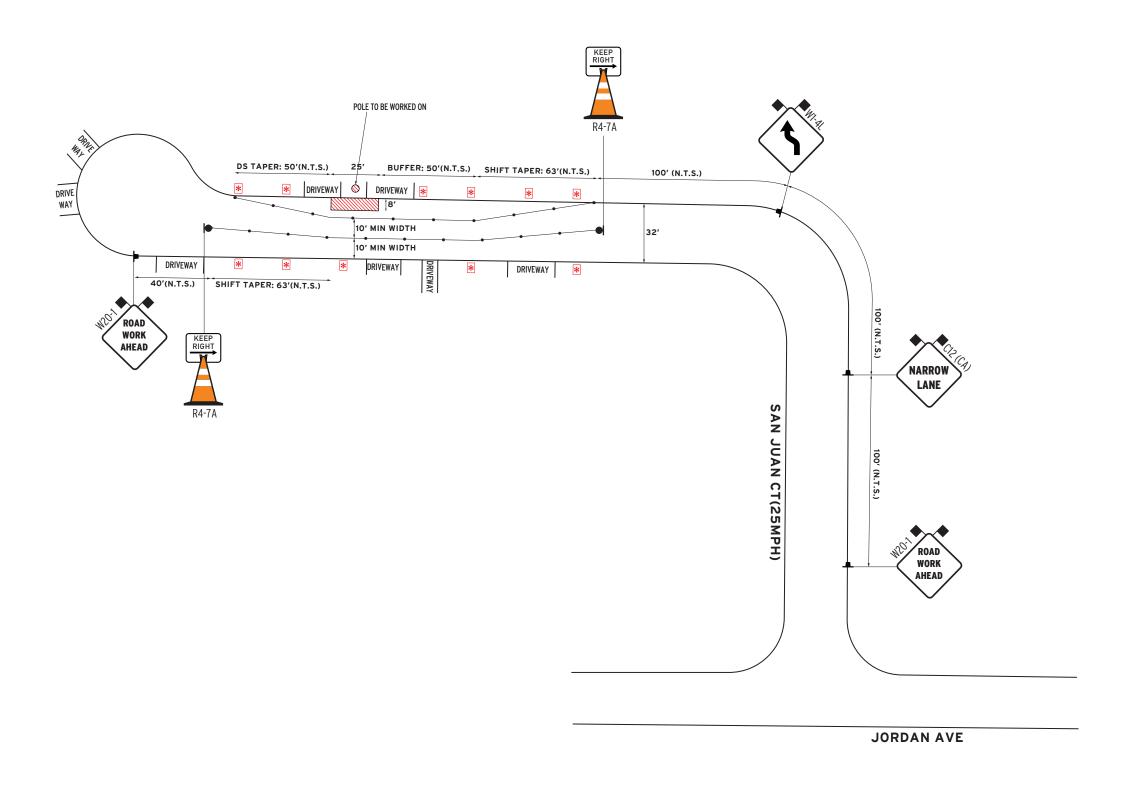
ISSUE STATUS				
	DATE	DESCRIPTION		
	10/30/18	CD 90%		
	07/25/19	CD 100%		
DRAWN	I BY:	T. JONES		
CHECKED BY: T. DICARLO				
APPRO	VED BY:	В. МсСОМВ		
DATE:		07/25/19		

GROUNDING DIAGRAMS

SHEET TITLE:

SHEET NUMBER

E-2



LEGEND:

CHANNELIZING DEVICE

TRAFFIC CONE W/CLIP ON SIGN

■ SIGN WORK ZONE

→ DIRECTION OF TRAFFIC

→ TYPE 1 BARRICADE

→ TYPE 3 BARRICADE

₩ TYPE 3 BARRICADE W/SIGN

* TEMP NO PARKING SIGNS ★ FLASHING BEACON/BARRICADE LIGHT > TYPE 1 BARRICADE W/SIGN --- K-RAIL/WATER FILLED BARRIER

T CERTIFIED FLAGGER

⊗ CRASH BARRELS **IIIII** MESSAGE BOARD (PCMS)

FLASHING ARROWBOARD

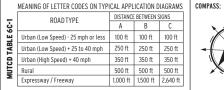
--- PEDESTRIAN BARRICADE

ADDITIONAL NOTES:

1.ASSIST RESIDENTS WITH IN/OUT ACCESS TO DRIVEWAYS ALONG THE CLOSURE WHEN SAFE TO DO SO.

• Traffic control shall conform with the most current CAMUTCD part 6 and/or Caltrans Standards • Temporary no parking signs shall be placed a min of 72 hrs prior of work.

- 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
- All Devices shall be removed when no longer required.





CALE:	PROJECT LOCATION:	
NOT TO SCALE	49 SAN JUAN LOS ALTOS	
ATE EOSTD: 6-18-19	JOB# LO	

N CT 0SA0_05 DATE COMPLIED: 6-26-19

REQUEST BY:

LANCE LEWIS

216-593-0400

484-895-5109

L.LEWIS@SURE-SITE.COM

SURESITE

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



Drawn By: AFTER HOURS Andie Tonnu
EMERGENCY CSLB# 917034 510-299-5666 Office: 510-657-2543 Fax: 510-657-2544

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

7	• One lane of traffic in each direction and all high volume turning lanes shall be maintained
	at all times and all atmosts at a minimum land width of 10 feet

- 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.
- Driveways shall be monitored and maintained at all times during work hours.
- backfilled prior to public usage.

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 m	aintain wireless
communication systems at 49 San Juan Court	_, 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 t	he 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.
- 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 Sure Site Consulting
Name/Title

Jama Meiners
Signature

T-30-19
Date

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
Signature
_June 21, 2019
Date the notices were mailed out
Location:
Public right of way near 49 San Juan Court
37.3958800, -122.1132500

1 170-13-017	1 170-13-017	2 170-13-018
HENRY A SOWIZRAL	OCCUPANT	BIN & YU JING QIN
16023 NE 58TH CT	16 E PORTOLA AVE	737 LOMA VERDE AVE #3
REDMOND WA 98052	LOS ALTOS CA 94022	PALO ALTO CA 94303
2 170-13-018	3 170-13-019	4 170-13-020
OCCUPANT	GELENA SIGANEVICH	ALAN E & SKODA HANA LOH
32 E PORTOLA AVE	42 E PORTOLA AVE	50 E PORTOLA AVE
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
5 170-13-022 DAVID & SARAH ZIEGLER 80 E PORTOLA AVE LOS ALTOS CA 94022	6 170-13-041 PHYLLIS E GRAME 99 SAN JUAN CT LOS ALTOS CA 94022	7 170-13-042 ABDOLREZA & SARTIPI NADIA RAISSINIA 85 SAN JUAN CT LOS ALTOS CA 94022
8 170-13-043	9 170-13-044	10 170-13-045
PETER H & JULIE R MAHOWALD	PATRICIA A DENSMORE	ALBERT C & MARIE L SMITH
71 SAN JUAN CT	57 SAN JUAN CT	43 SAN JUAN CT
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
11 170-13-046	12 170-13-047	13 170-13-052
DAVID F X & CAROL A MURRAY	JEANINE VALADEZ	STEVEN & BERNADETTE HOUTCHENS
29 SAN JUAN CT	15 SAN JUAN CT	130 SAN JUAN CT
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
14 170-13-053	15 170-13-054	16 170-13-073
GEORGE & MARYANN KONTON	HAREESH BHAT	MARYAM IMAM
144 SAN JUAN CT	55 JORDAN AVE	25 JORDAN AVE
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
17 170-13-074	18 170-13-060	19 170-13-061
HU ALBERT L TRUSTEE	MURALI B & PRIYA DHARAN	JIE & ZHANG ZHONG MA
41 JORDAN AVE	32 SAN JUAN CT	42 SAN JUAN CT
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
20 170-13-062	21 170-13-064	21 170-13-064
LADAN & BAGHERI RAMIN KAZERONI	WILLY J & HELEN S LAURIKS	OCCUPANT
66 SAN JUAN CT	111 VIA CONCHA	747 N SAN ANTONIO RD
LOS ALTOS CA 94022	APTOS CA 95003	LOS ALTOS CA 94022
22 170-13-065	23 170-13-066	24 170-13-071
AMOL H & ASMITA A WANKHEDE	ROBERT G MATHEWS	JOSHUA & LEE FANYEE SCHACHTER
757 N SAN ANTONIO RD	785 N SAN ANTONIO RD	60 E PORTOLA AVE
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
25 170-13-072 LIANG & LI RUOYU XUE 2190 KLASSEN WAY	25 170-13-072 OCCUPANT 70 E PORTOLA AVE	IVAN TOEWS SURESITE CONSULTING 2033 GATEWAY PL 6TH FLR SAN JOSE CA 95110

LOS ALTOS CA 94022

SAN JOSE CA 95110

SAN JOSE CA 95131

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!

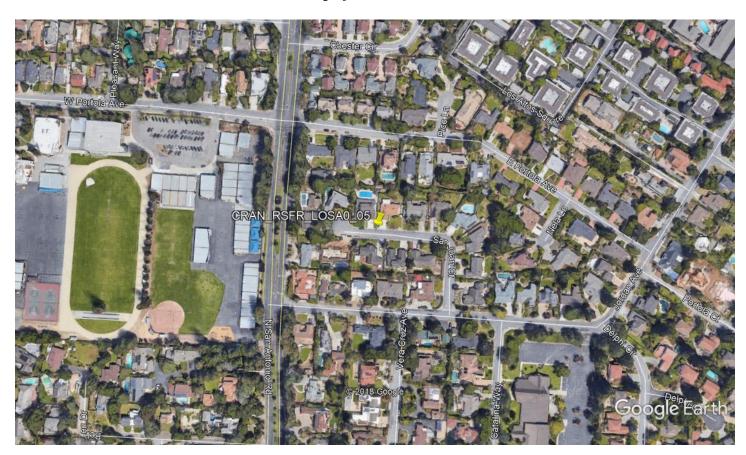
June 10, 2019

Dear Neighbor,

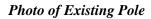
AT&T Mobility proposes to install a state-of-the-art wireless communication small cell node facility on existing wood utility pole located in the City of Los Altos public right-of-way near 49 SAN JUAN COURT. The equipment to be initially installed includes one (1) antenna, two (2) radio units, and one (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.











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



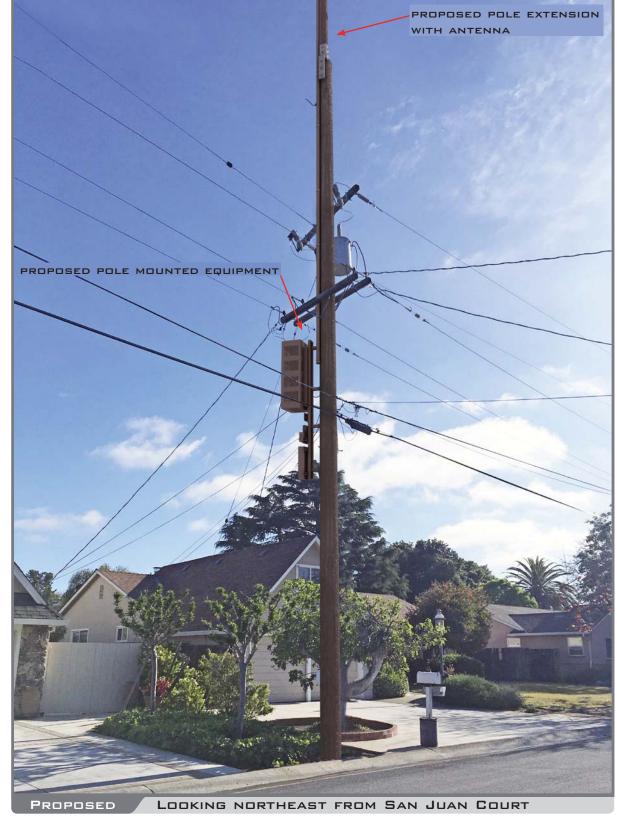
CRAN RSFR LOSAO 05

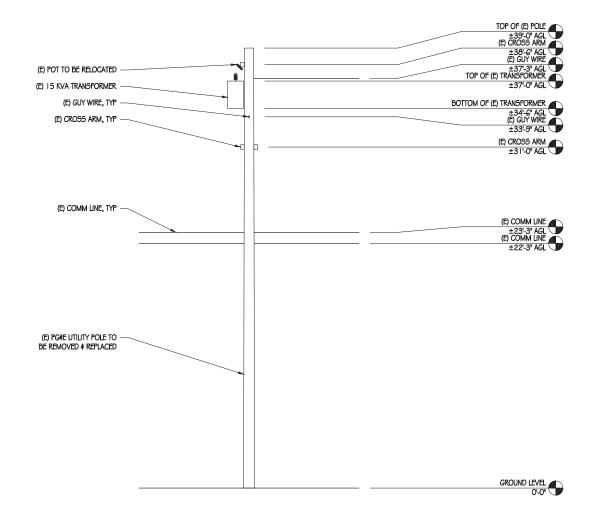
49 SAN JUAN COURT LOS ALTOS CA 94022



VIEW 1







TOP OF (N) AT\$T ANTENNA
±47'-4" AGL

RAD CENTER OF (N) AT\$T ANTENNA
±46'-4" AGL

BOTTOM OF (N) AT\$T ANTENNA
±45'-4" AGL

TOP OF (N) POLE
±45'-0" AGL (N) AT&T ANTENNA 6' POWER SAFETY ZONE PER GO95 (E) RELOCATED POT TO 9:00 (N) RF SIGNAGE (N) WEATHERHEAD TOP OF (N) WEATHERHEAD ±33'-6" AGL (N) 55FT UTILITY POLE, CLASS 3 -(N) Ø2" CONDUIT FROM (N) WEATHERHEAD TO (N) METER (N) FIBER CONNECTION, PER SEPERATE PERMIT (N) JPAK STANDOFF BRACKET (N) MACRO SHROUD CONCEALMENT BOX CONTAINING (2) (N) AT\$T RRUS-32 W/ PSU UNITS, (N) FIBER DMARC \$ (2) (N) DIPLEXERS MAX HEIGHT OF (N) JPAK STANDOFF BRACKET \$ TOP OF (N) MACRO SHROUD $\pm 1.6^{\circ}$ O* AGL (N) GROUND BUS BAR W/ 4" PVC COVER (N) LOAD CENTER/AC DISCONNECT BOTTOM OF (N) MACRO SHROUD ±13'-0" AGL (N) METER BOTTOM OF (N) GROUND BUS BAR ±10-11" AGL BOTTOM OF (N) LOAD CENTER ±9'-6" AGL TOP OF (N) METER ±9'-0" AGL (E) RELOCATED CONDUIT W/ GROUND -BOTTOM OF (N) METER ±7'-0" AGL GROUND LEVEL 0'-0"

EXISTING NORTH ELEVATION

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN

NEW NORTH ELEVATION









CRAN_RSFR_LOSAO_05

ROW ADJCT TO 49 SAN JUAN CT LOS ALTOS, CA 94022

	ISSUE	STATUS		
Δ	DATE	DESCRIPTION		
	10/30/18	CD 90%		
			\vdash	
DRAWN	I BY: 1	. Jones		
CHECKED BY: T. DICARLO				
APPROVED BY: B. McCOMB				
DATE: 10/30/18				
SHEET TITLE:				
ELEVATIONS				
SHEET NUMBER				

AT&T Mobility Radio Frequency Statement Los Altos CA Small Cell Node 5

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 I 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 towards the end of San Juan Courtt. Denial of this proposed facility would materially inhibit AT&Ts 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 49 San Juan Court is needed to close the high-band LTE service coverage in an area bordered roughly by East Portola Avenue to the north, Nela Lane to the west, Catalina Court to the south and Egan Junior high School to the east. This portion of Los Altos is primarily residential neighborhoods with dozens of homes and a Junior High school.

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

EXHIBIT 1

LTE 1900 Coverage without Small Cell LOSA0_05

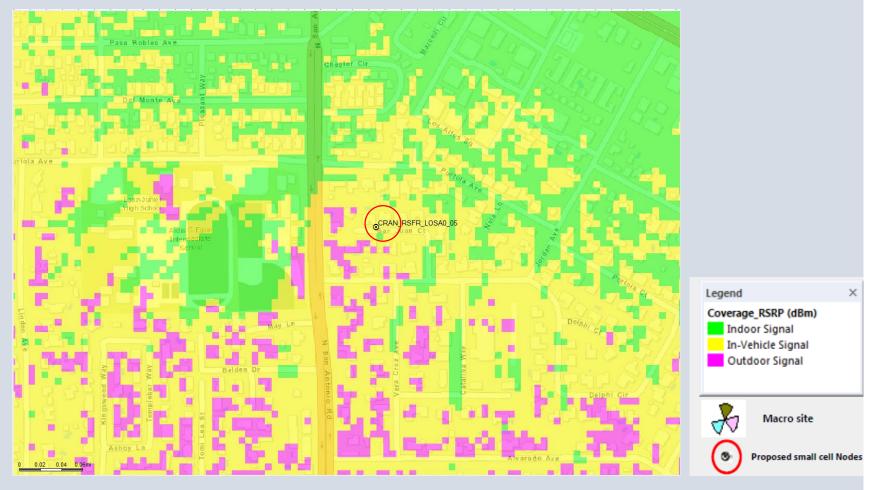
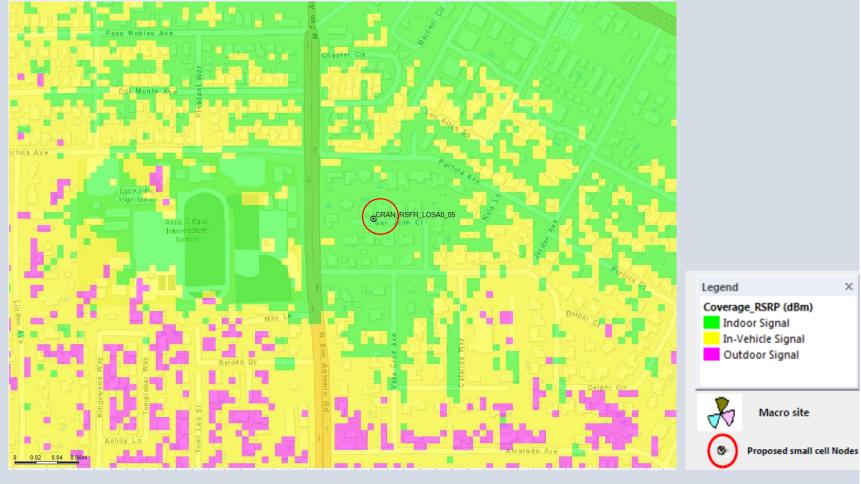




EXHIBIT 2

LTE 1900 Coverage with Small Cell LOSA0_05







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 detail	ed plan /drawing	showing the pro	anoged work)
` - •	ORK: 791 Los Altos Ave	eu pian/urawnig	snowing the pro	posed workj.
TYPE OF WORK:	Install equipment on new utility pole. (Pe		eplacement under se	eparate excavation permit)
CONTRACTOR:	Ericsson, Delbert Butcher	· · ·	PHONE #	720-317-7282
OWNER:	PG&E, Jwo Cheng		PHONE #	650-515-9842
APPLICANT: AT&T Ivan T	Mobility (New Cingular Wireless PCS), pews, SureSite Consulting, Agent		PHONE #	949-278-2962
SPECIAL REQUIRE	EMENTS (TO BE COMPLETED	BY THE CITY	<u>:</u>	
permit including, with of this permit. The Ciback of this page and Notify the City any work in Drequires at least business day page A copy of this be terminated The applicant County at (408 Applicant to county to the existing	it evidence of insurance coverage anout limitation, the General Requity of Los Altos approves this request the following indicated conditions of Los Altos Engineering Division a countown area or on collector and art at 1 business day notice prior to begin prior by contacting City of Los Altos permit must be at job site for authority the City until compliance with the shall notify the Los Altos Police Dep 378-4010 at least 3 business days prostruct Driveway/Walkway approach curb (cold joint).	rements and exhibited to the dest subject to the dest subject to the dest subject to the dest subject to the dest (650) 947-2780 at the dest of the de	bits attached her "General Requires the public right al inspection shalton. of the City when het. 47-2770 and Fire I the traveled way sexisting rolled cur	reto prior to issuance rements" listed on the days prior to beginning to f way in other areas ll be scheduled at least 1 requested or work may Department, Santa Clara section of a street.
	provide adequate drainage with 3' wi subbase is required) and conforms to			s 2" AC or 4" AC
Contractor will New sidewalk 16" long dowel Comments:	be required to saw cut along the exist or curb shall be constructed per City S s @ 12"o.c. All saw cuts to be done at dunderstands all the conditions;	ing road pavement standards and conn existing joints.	due to severe dan ected to existing s	sidewalk or curb with #4,
SIGNATURE OF	F APPLICANT:		DATE:	
ISSUED BY :			DATE:	
	S	SIGNATURE		
INSPECTED BY	: FIN	AL INSPECTIO	N DATE:	
ATTACHMENT: YES NO	<u>\$196</u>	5.00 CREDIT	СНЕСК	Provide Check # or typ of credit (VS, MC, or D) and last 4 digits
Distribution:	Original – Inspector Cop	ies: Applicant ar	nd Finance	

PERMIT VALID FOR 60 DAYS

(See other side for General Requirements)

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	e applicant with a copy of detailed drawing showing	g the proposed	1 location(s)):
	Los Altos Ave Install equipment on new utility pole. (PG&E to perform pole replacement)	ent under separate	excavation permit)
DATE(S) REQUEST	 FD· 3/21/2010		
CONTRACTOR:	Ericsson, Delbert Butcher	PHONE #	720-317-7282
		_	650-515-9842
<u> </u>	&E, Jwo Cheng		
	Mobility (New Cingular Wireless PCS), pews, SureSite Consulting, Agent	PHONE #	949-278-2962
SPECIAL REQUIREM	MENTS (TO BE COMPLETED BY THE CITY):		
	evidence of insurance coverage meeting the minim		
	out limitation, the General Requirements and exhibit		
	Los Altos approves this request subject to the "General following indicated conditions:	ieral Requiren	nents" listed on the
	of Los Altos Engineering Division at (650) 947-27	80 at least 2 b	usiness days prior to
	work in Downtown area or on collector and arteria		
	eas requires at least 1 business day notice prior to		
	aled at least 1 business day prior by contacting City		
	permit must be at job site for authorized represent		•
	erminated by the City until compliance with this re shall notify the Los Altos Police Department at (65		
	unty at (408) 378-4010 at least 3 business days prio		
Comments:	unity at (100) eve 1010 at 104000 submitted buys prio	i to unity iunio	J1 10 00 0100 0100
Applicant has read and	understands all the conditions; and agrees to all the	conditions of	this permit.
SIGNATURE OF AP	PLICANT: DA	ATE:	
ISSUED BY:	D A	ATE:	
	SIGNATURE		
INSPECTED BY:	FINAL INSPECTION D	ATE:	
	, ,,	\$ 505.00	
		\$ -	
	TOTAL FEES:	\$ 505.00	
ATTACHMENT:	ol Plan CREDIT	CHECK	CASH
NO Traine Control	AT IMI	CILOR	Provide Check # or type of credit (VS, MC, or D) and last 4 digits
Distribution:	Original – Inspector Copies: Applicant, Pol	lice Departme	

PERMIT VALID FOR

See other side for General Requirements

DAYS

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.

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Minimum Scope of Insurance

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 - 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
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 - 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_06 Site Structure Type: Utility Pole
Address: 791 Los Altos Avenue Latitude: 37.396761
Los Altos , California Longitude: -122.121247

Report Date: October 29, 2018 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_06 site located at 791 Los Altos 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.

	Limits for General Population/ Uncontrolled Exposure		Limits for Occupational/ Controlled Exposure	
Frequency (MHz)	Power Density (mW/cm²)	Averaging Time (minutes)	Power Density (mW/cm²)	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 38.4-foot Utility Pole with a centerline 46.6 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 0.3945% 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 0.9775% 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 41 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

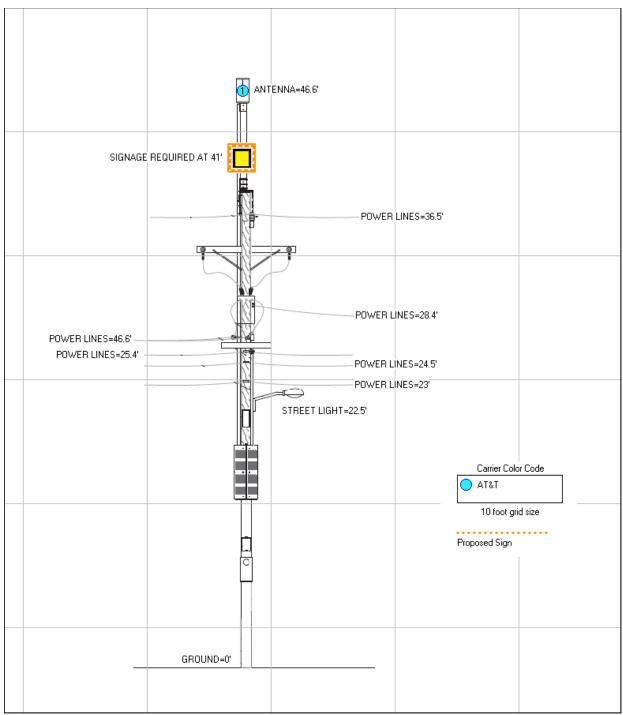


Figure 2: Mitigation Recommendations

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 791 Los Altos 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 25, 2018

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

Subj: CRAN_RSFR_LOSA0_006

We have analyzed the wood pole at ROW adjacent to 791 Los Altos Avenue, Los Altos, CA 94022 (37.3967610, -122.1212470) 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 41.0% capacity and may be **considered adequate to support the proposed loads.**

Please contact me if you have any questions.

Sincerely,

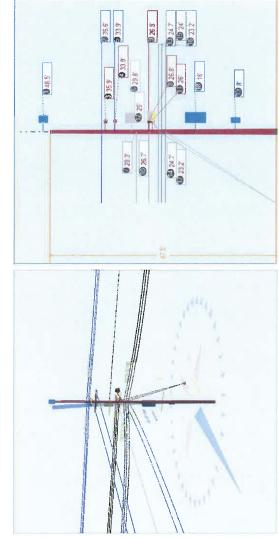
Bret McComb, P.E.



Attachments:

O-Calc Output: 6 pages
 Pole Size Chart: 1 page

Pole Num:	CRAN_RSFR_LOSA0_06 Pole Length / Class:	Pole Length / Class:	55 / 3 Code:	ä	GO 95	GO 95 Structure Type:	Guyed Tangent
Aux Data 1	Unset	Unset Species:	DOUGLAS FIR NESC Rule:	C Rule:		- Status Gu	Guy Wires Adequate
Aux Data 2	Unset	Jnset Setting Depth (ft):	7.50 Cons	7.50 Construction Grade:	8	B Pole Strength Factor:	0.50
Aux Data 3	Unset	Unset G/L Circumference (in):	39.96 Loading District:	ling District:	Light	-ight Transverse Wind LF:	1.00
Aux Data 4	Unset	Unset G/L Fiber Stress (psi):	8,000 Ice T	8,000 Ice Thickness (in):	0.00	0.00 Wire Tension LF:	1.00
Aux Data 5	Unset	Unset Allowable Stress (psi):	3,929 Wind	3,929 Wind Speed (mph):	55.90	55.90 Vertical LF:	1.00
Aux Data 6	Unset	Jnset Fiber Stress Ht. Reduc:	No Wind	No Wind Pressure (psf):	8.00		
Latitude:		37.396761 Deg Longitu	ngitude:		-122.121247 Deg Elevation:	Elevation:	99.9 Feet



Pole Capacity Utilization (%) Crossarm allowance 300 lbs		Height (ft)	Wind Angle (deg)
Maximum	41.0	27.0	355.6
Groundline	12.7	0.0	88.6
Vertical	5.4	24.6	0.06

Pole Moments (ft-lb) Crossarm allowance 300 lbs	sq	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	11,086	347.8	355.6
Groundline	5,379	70.7	88.6
GL Allowable	66,167		

² Worst Wind Per Guy Wire

Guy System Component Summary				Load From Worst Wind Angle on Pole	Norst Wind in Pole	Individual Maximum Load	ximum Load
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
▶ Anchor	190.0	270.0		5.9	355.6	10.2	0.06
● EHS 3/8 (Span/Head)			29.3	7.7	355.6	13.2	0.06
▶ Anchor	200.0	0.0		0.0	355.6	0.0	0.0
• EHS 3/8 (Span/Head)			26.7	0.0	355.6	0.0	0.0
▶ Single - 14" - Soil Class 4	15.0	180.0		31.4	355.6	ى ئ	0.0
• HS 9/32 (Down)			26.7	58.1	355.6	58.1	0.0
• HS 9/32 (Down)			24.7	49.9	355.6	49.9	0.0
• HS 9/32 (Down)			23.2	44.3	355.6	44.3	0.0
		System Capacity Summary:	y Summary:	Adequate	uate	Adequate	uate

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 70.7°	- Reporting A	ngle Mode: L	oad - Reportin	ig Angle: 70.7	0					
	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	1,807	873.6	39,522	734.7	29.7	3,029	85	_	3,029	77.1
Comms	286	138.1	5,286	98.3	8.0	405	292	2	407	10.4
GuyBraces	-2,052	-992.1	-42,482	-789.8	-64.2	-3,256	6,371	90	-3,205	-81.6
PowerEquipments	1	5.2	372	6.9	9.0	29	335	က	31	0.8
GenericEquipments	43	21.0	299	12.4	1.0	51	160	~	52	1.3
Pole	82	39.4	1,467	27.3	2.2	112	1,599	13	125	3.2
Crossarms	20	8.0	420	7.8	9.0	32	215	2	34	6.0
Streetlights	9	2.8	20	0.4	0.0	2	45	0	2	0.0
Insulators	ß	2.3	107	2.0	0.2	00	73	-	6	0.2
Pole Load	207	100.0	5,379	100.0	8.1	412	9,175	72	484	12.3
Pole Reserve Capacity			60,788		91.9	3,517			3,444	87.7

*Includes Load Factor(s)

Load Summary by Owner - Reporting Angle Mode: Load - Reporting	Reporting And	gle Mode: Loa	999	Angle: 70.7°						
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (Ibs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
<undefined></undefined>	125	9.09	3,912	72.7	6.9	300	7,576	09	359	9.1
Pole	82	39.4	1,467	27.3	2.2	112	1,599	13	125	3.2
Totals:	207	100.0	5,379	100.0	8.1	412	9,175	72	484	12.3

Detailed Load Components:

Power		Owner	Height	Horiz.	Cable	Sag at	Cable	Lead/Span	Span	Wire	Tension	Tension	Offset	Wind	Moment
			Œ	Offset	Diameter	Мах		Length	Angle	Length	(sql)	Moment*	Moment*	Moment*	at GL*
				(E)	Î)	d (£)	(msall)	E)	(geg)	E)		(H-ID)	(H-ID)	(H-ID)	(ff-lb)
Primary	AAC 1 AWG 7 STRAND PANSY		36.60	16.18	0.3280	1.65	0.078	164.0	0.06	164.0	200	17,283	0	216	17,499
Primary	AAC 1 AWG 7 STRAND PANSY		36.60	16.18	0.3280	2.03	0.078	190.0	270.0	190.0	200	-17,283	0	250	-17,034
Primary	AAC 1 AWG 7 STRAND PANSY		36.60	40.46	0.3280	1.65	0.078	164.0	0.06	164.0	200	17,283	4	216	17,504
Primary	AAC 1 AWG 7 STRAND PANSY		36.60	40.46	0.3280	2.03	0.078	190.0	270.0	190.0	200	-17,283	ß	250	-17,029
Primary	AAC 1 AWG 7 STRAND PANSY		36.60	40.46	0.3280	1.65	0.078	164.0	90.0	164.0	200	17,283	-10	216	17,489
Primary	AAC 1 AWG 7 STRAND PANSY		36.60	40.46	0.3280	2.03	0.078	190.0	270.0	190.0	200	-17,283	-12	250	-17,045
Primary	AAC 1 AWG 7 STRAND PANSY		33.92	40.54	0.3280	2.21	0.078	200.0	0.0	200.0	492	5,506	ကု	-53	5,450
Primary	AAC 1 AWG 7 STRAND PANSY		33.92	40.54	0.3280	2.21	0.078	200.0	0.0	200.0	492	5,506	က	-53	5,456
Secondary	TRIPLEX 6 AWG		26.75	6.16	0.5800	2.10	0.113	164.0	0.06	164.0	200	12,626	4	279	12,908
Secondary	TRIPLEX 6 AWG		26.75	40.47	0.5800	2.10	0.113	164.0	0.06	164.0	200	12,626	2	279	12,907
Secondary	TRIPLEX 6 AWG		26.75	40.47	0.5800	2.10	0.113	164.0	0.06	164.0	200	12,626	<u></u>	279	12,904
											Totals:	48,890	6 -	2,129	51,010

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		24.67	7.46	1.0000	4.32	0.400	164.0	90.0	164.3	400	9,315	7	444	9,766
Telco	TELE 1.0		24.67	7.46	1.0000	4.77	0.400	190.0	270.0	190.2	200	-11,644	00	514	-11,122
Telco	TELE 1.0		24.67	7.46	1.0000	4.32	0.400	200.0	0.0	200.1	700	5,697	-23	-118	5,556
Telco	TELE 1.0		23.17	7.54	1.0000	4.32	0.400	164.0	0.06	164.3	400	8,749	7	417	9,172
Telco	TELE 1.0		23.17	7.54	1.0000	4.77	0.400	190.0	270.0	190.2	200	-10,936	00	483	-10,445
Telco	TELE 1.0		23.17	7.54	1.0000	4.32	0.400	200.0	0.0	200.1	200	5,351	-24	-111	5,216
Telco	TELE 1.0		24.00	7.50	1.0000	4.32	0.400	164.0	0.06	164.3	400	9,062	7	432	9,501

³ Wind At 355.6°

² Worst Wind Per Guy Wire

Page 3 of 6

*Includes Load Factor(s)

User: Nemesis Nemesis OCP: 5.03

Friday, October 26, 2018 11:53 AM
O-Calc® Pro Analysis Report
Pole ID:LOSA0_006-Modeling.pplx

10,820	6,823
- 009	2,559
œ	ကု
-11,328	4,267
200	Totals:
190.2	
270.0	
190.0	
0.400	
4.77	
1.0000	
7.50	
24.00	
TELE 1.0	
Telco	

PowerEquipment		Owner	Height (ft)	Horiz. Offset	Offset Angle	Rotate Angle	Unit Weight	Unit Height	Unit Depth	Unit Diameter	Unit Length	Offset Moment*	Wind Moment*	Moment at GL*
Transformer	1PH-15KVA		29.75	17.67	0.0	0.0	335.00	34.00	(III)	22.00	(11)	163	318	480
											Totals:	163	318	480
GenericEquipment		Owner	Height	Horiz.	Offset	Rotate	Unit	Unit		Unit		Offset	Wind	Moment
			(£)	Offset	Angle	Angle	Weight	Height	Depth	Diameter	Length	Moment*	Moment*	at GL*
				(in)	(deg)	(deg)	(sql)	(ii)		(ii)		(ft-lb)	(ft-lb)	(ft-lb)
Box	Housing For RRUs		16.00	13.45	0.0	0.0	130.00	53.00		\$		48	484	532
Box	100amp Meter		8.00	8.22	0.0	0.0	10.00	24.00	4.63	1	12.00	2	62	64
Cylinder	Antenna-KMW FX- OM2LI OH2		48.50	0.40	0.0	0.0	20.00	24.00	ŀ	16.00	i	0	266	266

Crossarm		Owner	Height	Horiz.	Offset	Rotate	Unit	Unit	Unit Depth	Unit	Offset	Wind	Moment at
		3	(L)	Offset (in)	Angle (deg)	Angle (deg)	Weight (lbs)	Height (in)	(in)	Length (in)	Moment* (ft-lb)	Moment*	GL*
Normal	CROSSARM 3-1/2 X 4- 1/2 X 8		35.92	6.07	270.0	270.0	53.00	4.50	3.50	96.00	-25	-83	-108
Normal	CROSSARM 3-1/2 X 4- 1/2 X 8		33.92	6.18	180.0	180.0	53.00	4.50	3.50	96.00	6 -	425	416
Normal	CROSSARM 3-1/2 X 4- 1/2 X 8		26.75	6.59	270.0	270.0	53.00	4.50	3.50	96.00	-27	-62	-89
Normal	CROSSARM 3-1/2 X 4- 1/2 X 4		26.00	6.63	0.0	0.0	28.00	4.50	3.50	48.00	5	162	167
Normal	CROSSARM 3-1/2 X 4- 1/2 X 4		26.00	6.63	180.0	180.0	28.00	4.50	3.50	48.00	τĊ	162	157
										Totals:	-62	604	542

861

811

20

Totals:

Streetlight		Owner	Height	Horiz.	Offset	Rotate		Unit	Unit	Unit	Unit	Offset	Wind	Moment
)			(£)	Offset	Angle	Angle	Weight	Height	Depth	Diameter	Length	Moment*	Moment*	at GL*
				(ii)	(ded)	(deg)		(ii)	(in)	(ii)	(ii)	(ft-lb)	(ft-lb)	(ft-lb)
General	Streetlight - 3 ft. Arm		25.00	4.94	270.0	270.0	45.00	24.00	20.00	3.00	36.00	-120	146	25
										_	Totals:	-120	146	25

Insulator		Owner	Height	Horiz.	Offset	Rotate	Unit	Unit	Unit	Offset	Wind	Moment at
			(L)	Offset (in)	Angle (deg)	Angle (dea)	Weight (lbs)	Diameter (in)	Length (in)	Moment*	Moment*	GL*
Post	Post Insulator - 15 kV		36.10	15.00	338.0		11.00	4.75	00.9	-1	15	14
Post	Post Insulator - 15 kV		36.10	40.00	351.4	0.0	11.00	4.75	00.9	7	15	22
Post	Post Insulator - 15 kV		36.10	-40.00	188.6	0.0	11.00	4.75	00.9	-17	15	<u>ب</u>
Deadend	Deadend 12.75"		33.92	40.00	261.2	180.0	3.00	3.80	12.75	6-	23	15
Deadend	Deadend 12.75"		33.92	-40.00	98.8	180.0	3.00	3.80	12.75	10	23	33

*Includes Load Factor(s)

Friday, October 26, 2018 11:53 AM	
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Pole ID:LOSA0_006-Modeling.pplx	

Deadend	Deadend 12.75"	26.75	0.00	270.0	180.0	3.00	3.80	12.75	-	19	20
Deadend	Deadend 12.75"	26.75	40.00	350.6	180.0	3.00	3.80	12.75	2	19	23
Deadend	Deadend 12.75"	26.75	-40.00	189.4	180.0	3.00	3.80	12.75	-5	19	17
Bolt	Single Bolt	24.67	0.00	0.0	0.0	2.00	3.00	0.00	-	0	_
Bolt	Single Bolt	24.67	0.00	270.0	270.0	2.00	3.00	0.00	ကု	0	ဇှ
Bolt	Single Bolt	23.17	0.00	0.0	0.0	2.00	3.00	0.00	_	0	
Bolt	Single Bolt	23.17	0.00	270.0	270.0	2.00	3.00	0.00	ကု	0	ကု
Bolt	Single Bolt	24.00	0.00	0.0	0.0	2.00	3.00	0.00	_	0	-
								Totals:	o _p	147	138

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		29.33	29.33	190.00	0.375	75.00	270.0	0.0	0.273	187.26	1.05
EHS 3/8	Span/Head		26.67	26.67	200.00	0.375	75.00	0.0	0.0	0.273	197.24	0.00
HS 9/32	Down		26.67	0.00	15.00	0.281	75.00	180.0	60.4	0.164	37.15	1.16
HS 9/32	Down		24.67	0.00	15.00	0.281	75.00	180.0	58.5	0.164	35.32	0.95
HS 9/32	Down		23.17	0.00	15.00	0.281	75.00	180.0	56.9	0.164	33.96	0.81

Guy Wire and Brace (Loads and Reactions)	(s)	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 Tension³ (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (Ibs)	Shear Load At Report Angle (lbs)	Moment at GL³ (ft-lb)
EHS 3/8	Span/Head	2.30e+7	15,400	0.75	11,550	700	1,522	1,522	888	0	888	-838	-24,394
EHS 3/8	Span/Head	2.30e+7	15,400	0.75	11,550	700	0	0	0	0	0	0	-39
HS 9/32	Down	2.30e+7	6,400	0.75	4,800	700	2,790	2,790	2,788	2,425	1,376	454	-11,794
HS 9/32	Down	2.30e+7	6,400	0.75	4,800	200	2,396	2,396	2,394	2,041	1,251	-413	-9,930
HS 9/32	Down	2.30e+7	6,400	0.75	4,800	200	2,129	2,129	2,127	1,781	1,162	-383	-8,672
									Totals:	6,247	4,676	-2,088	-54,830

Anchor/Rod Load Summary	Owner	Rod Length	Lead Length	Lead Angle	Strength of	Anchor/Rod	Allowable	Max Load ²	Load at Pole	Max
		AGL (1	(1)	(ded)	Assembly (lbs)	Strength Factor	Load (lbs)	(sql)	MCU³	Required Capacity ² (%)
Anchor		30.00	190.00	270.0	20,000	0.75	15,000	1,522	۱	10.1
Anchor		30.00	200.00	0.0	20,000	0.75	15,000	0	0	0.0
Single - 14" - Soil Class 4		0.00	15.00	180.0	31,000	0.75	23,250	7,312	7,306	31.5

User: Nemesis Nemesis OCP: 5.03

³ Wind At 355.6°

Pole ID:LOSA0_006-Modeling.pplx

	Buckling Load Factor of Safety	18.52
	Buckling Load Applied at Height (lbs)	1699.06
	Buckling Load Capacity at Height (lbs)	170,998
	Pole Tip Height (ft)	47.50
	Ice Density (pcf)	57.00
	Pole Density (pcf)	00.09
	Modulus of Elasticity (psi)	1.60e+6
	Diameter at GL (in)	12.73
	Diameter at Tip (in)	7.32
	Minimum Buckling Diameter at GL (in)	16.29
	Buckling Section Diameter (in)	11.79
	Buckling Section Height (% Buckling Col. Hgt.)	33.30
ng	Buckling Column Height* (ft)	24.63
Pole Buckling	Buckling	0.71

² Worst Wind Per Guy Wire

3 Wind At 355.6°

			DONG	AS FIR	DOUGLAS FIR POLE SIZING CHART	SIZING (CHART					
Class	9-H	H-5	H-4	H-3	H-2	Ξ	-	2	ო	4	5	9
Minimum Circumference at Top (Inches)	39	37	35	33	31	59	27	25	23	21	19	17
Length of Pole (Feet)			Minin	num Circ	Minimum Circumference at 6 feet from Butt (Inches)	ice at 6 f	eet from	Butt (In	ches)			
20	1		-	1	1	'	31.0	29.0	27.0	25.0	23.0	21.0
25			1	1			33.5	31.5	29.5	27.5	25.5	23.0
30	-	1	-	-	ı		36.5	34.0	32.0	29.5	27.5	25.0
35	-	1	- 1	-	43.5	41.5	39.0	36.5	34.0	31.5	29.0	27.0
40	'	1	51.0	48.5	46.0	43.5	41.0	38.5	36.0	33.5	31.0	28.5
45	58.5	26.0	53.5	51.0	48.5	45.5	43.0	40.5	37.5	35.0	32.5	30.0
20	61.0	58.5	52.5	53.0	50.5	47.5	45.0	42.0	39.0	36.5	34.0	
52	63.5	60.5	58.0	55.0	52.0	49.5	46.5	43.5	40.5	38.0		,
09	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	52.5	52.5	49.5	46.5	43.5	40.5	-	1
70	0.69	66.5	63.5	60.5	57.0	54.0	51.0	48.0	45.0	41.5	1	-
75	71.0	0.89	65.0	62.0	59.0	55.5	52.5	49.0	46.0	-		1
80	72.5	69.5	66.5	63.5	0.09	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			1
06	76.0	73.0	69.5	66.5	63.0	59.5	56.0	53.0	49.0	1	1	ı
95	77.5	74.5	71.0	67.5	64.5	61.0	57.0	54.0	1		-	
100	79.0	76.0	72.5	69.0	65.5	62.0	58.5	55.0	1	-	1	
105	80.5	77.0	74.0	70.5	67.0	63.0	59.5	56.0	1			
110	82.0	78.5	75.0	71.5	68.0	64.5	60.5	57.0	1	-	-	-
115	83.5	80.0	76.5	72.5	0.69	65.5	61.5	58.0	-	1		1
120	85.0	81.0	77.5	74.0	70.0	66.5	62.5	59.0	1	,	'	-
125*	86.0	82.5	78.5	75.0	71.0	67.5	63.5	59.5	-		-	1
	9-H	H-5	H-4	H-3	H-2	H-1	-	2	က	4	5	9
* 405' Avoilability	4000	:										

* 125' Availability: Untreated Only



CRAN RSFR LOSAO 06

94022 ۵ 791 LOS ALTOS AVENUE LOS ALTOS







PORTOLA AVENUE

ACCURACY OF PHOTO SIMULATION BASED UPON INFORMATION PROVIDED BY PROJECT APPLICANT.

Alternate Review

- ☐ AT&T proposed a node location near West Portola Avenue and Linden Avenue
- ☐ 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 West Portola Avenue where it intersects with Mercedes Avenue

This pole is considered a possible candidate but is located farther away from the center of the preferred location as required by our network needs. In addition, it is adjacent to a school.



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



PG¢E

2898152

FA LOCATION:

USID:

CRAN RSFR LOSAO OG ROW ADJCT TO 791 LOS ALTOS AVE PG&E POLE (PM# 114474404) LOS ALTOS, CA 94022 SITE ADDRESS: POLE OWNER: SITE TYPE: SITE ID:

AT¢T MOBILIY 5001 EXECUTIVE PARKWAY 5001 RAMON, CA 945&3

at&t

36 EXECUTIVE PARK, SUITE 210

THIS IS AN UNIMAINIED TELECOMMUNICATIONS FACILITY FOR ATFT WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENINS & ASSOCIATED EQUIPMENT OF A (N) PC&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY. PROJECT DESCRIPTION PROJECT TEAM VICINITY MAP TERRACE SITE INFORMATION

36 EXECUTIVE PARK, #210 IRVINE, CA 92614 (949) 278-2962 949) 278-2962 ..MEINERS@SURE-SITE.COM

STONERIDGE MALL RD, SUITE 350 NANTON, CA 94588 PROJECT MANAGERS: CHRIS JOHNSON

CONSTRUCTION MANAGER: TBD

O Target

Dalo Al

ROW ADICT TO 791 LOS ALTOS AVE LOS ALTOS, CA 94022

SITE ADDRESS:

SANTA CLARA

COUNTY: LATITUDE:

ADJCT TO 167-21-034

SURESITE 36 EXECUTIVE PARK, SUITE 210 IRVINE, CA 92614

AT≰T MOBIUTY 500 I EXECUTIVE PARKWAY SAN RAMON, CA 94583

APPLICANT:

122° 07' 16.43" W (-122.1212470) NAD 83 37° 23' 48.39" N (37.3967610) NAD 83

±99.9' AMSL PUBLIC ROW

GROUND ELEVATION:

ZONING:

LONGITUDE:

LOCAL COLLECTOR

STREET CLASSIFICATION:

100508715 LOS ALTOS

ZONING JURISDICTION:

PG¢E SAP ID:

3

(408) 796-8443 CHRISTOPHER.JOHNSON@ERICSSON.COM

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

SITE LOCATION

RF MANAGER:

DRAWING INDEX

SHEET NO:

Phone: (530) 823-6546 www.pdnd.com PRECISION DESIGN

INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON A (N) PORE UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON GO95 COMPLIANT STANDOPF BRACKET 4 CONSISTS OF (I) ELECTRICAL METER, (I) LOAD CENTERAC DISCONNECT, (I) CONCEAUMENT BOX CONTIANING (I) RRUI I 4 (I) 44 I 5 W/ PSU UNITS, (2) DIPLECES, 4 (I) KMW PK-OMZLI OHZ

CYLINDRICAL ANTENNA. ALL EQUIPMENT TO BE PAINTED TO MEET JURISDICTION APPROVAL. UTILITY LINES BETWERN (E) POINT OF CONNECTION ¢ POLE TO BE UNDERGROUND AND/OR OVERHEAD.

GENERAL NOTES, LEGEND, & ABBREVIATIONS TITLE SHEET

CRAN_RSFR_LOSAO_06

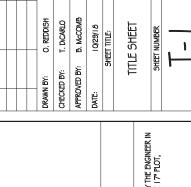
ROW ADJCT TO 791 LOS ALTOS AVE LOS ALTOS, CA 94022

DATE DESCRIPTION 0G/13/18 CD 90% 10/29/18 CD 100%

ISSUE STATUS

ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIPY ALL PLANS 4 (E) DIMENSIONS 4 CONDITIONS ON THE JOB SITE 4 SHALL IMMEDIATELY NOTIPY 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.



EQUIPMENT PLAN ¢ ANTENNA PLANS SINGLE-LINE DIAGRAM & DETAILS GROUNDING DIAGRAMS **IRAFFIC CONTROL PLAN** ELEVATIONS ELEVATIONS DETAILS **DETAILS**

"CALL BEFORE YOU DIG" At all services & grounding trenches, provide WARNING" tape at 12" below grade.

1. HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR
3. USE THE MIDDE LEAR TO TURR RIGHT ONTO BOLLING CANYON RD
4. USE THE MIDDE LEAR TO TURRE CNITO LEGO S VIA THE RAMP TO SAN JOSE
5. GOTTINIE STRAINT TO STAY ON LEGO S
6. CONTINIE STRAINT TO STAY ON LEGO S
7. TAKE BRI T. FOR MISSION BLVD/STATE ROUTE ZEZ TOWARD L-860
6. KEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION LVD W MRRGE ONTO CA-262
7. TAKE BRI T. FOR MISSION BLVD/STATE ROUTE ZEZ TOWARD L-860
7. TAKE BRI T. FOR MISSION BLVD
7. LOUSE THE TITZ L POR MISSION BLVD
7. USE THE TITZ L LANES TO TAKE THE EAT TOWARD L-860 SISAN JOSE
7. LUSE THE RIGHT Z LANES TO TAKE THE CA-237 W EAT TOWARD MIN VIEW
7. COMITINIE ON CA-237 W SOUTHBAY TWY
7. CONTINIE ON CA-237 W SOUTHBAY TWY
7. TURN RIGHT ONTO E PORTOLA ANE
7. TURN RIGHT ONTO PORDAN ANE

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583 791 LOS ALTOS AVE, LOS ALTOS, CA 94022

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

1. 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 ¢ 25)

2. 2016 CALIFORNIA BUILDING CODE

4. 2016 CALIFORNIA MECHANICAL CODE 3. 2016 CALIFORNIA ELECTRICAL CODE

5. 2016 CALIFORNIA PLUMBING CODE

6. 2016 CALIFORNIA FIRE CODE

8. CITY/COUNTY ORDINANCES 7. LOCAL BUILDING CODES

9. ANSI/EIA-TIA-222-G

CODE COMPLIANCE

DRIVING DIRECTIONS



ESTIMATED DISTANCE: 40 MI

ESTIMATED TIME: 48 MINS

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 I 105B.3.4.2, EXCEPTION I

HANDICAP REQUIREMENTS

END AT: 791 LOS ALTOS AVE, LOS ALTOS, CA 94022



MANTAN 30" MINING TOYER FOR ALL TELECOMANNICATIONS CONDUTS. MANNAN LECTRICAL CONDUTS AND CONDUTS. AND CONDUTS REQUIRED. MANNAN LECTRICAL CONDUTS AND CONDUTS. AND ANY FOLIA TRANSPERSINGS OF OTHER LOCATIONS WILL BE SULREY BACKFILLED. IN STITES SURREY TO GAUSE AND MILL DOWN 1-1/2" FOR AC CAP. IN DIFFE SURREY TO FROM GAUSE AND PRILL 35% CONTICATION WATTER SOLI FOR BALANCE. MANNING THE OFF TO THE PLACED IN TERMS TO SOUTH ALL COMBUTS AND 19 INVANING THE ABOVE RING. MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS GENERAL TRENCHING NOTES THE CELL SHETO PAMILWRZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOMN JUSHIT TO THE ATTENTION OF CONTRACTOR. GENERAL NOTES FOR EXISTING CELL SITES LABOR NECESSARY TO I. FLAIS AR INTENDED TO BE DIAGNAMANTO CUTLINE DIAL, MILES NOTID OTHEWICE. THE WORK, SHALL INCLUDE FURNISHING MATERIALS, EQUITABIT, APPLICITIONICES AND COMPLETE ALL INSTITUTIONS AS INDICATED ON THE DRAWNINGS. GENERAL CONSTRUCTION NOTES

PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CONTRECED THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGH

CONTRACTOR SHALL VERIFY ALL BYSTING DIA/BISIONE AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIA/BISIONS OF CONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREFANCES PRIOR TO ORDIENNE, MATERIAL OR PROCEEDING WITH CONE. 2. THE CANTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEPINED OR IDBITITIED BY THE CONTRACT DOCUMENTS.

THE EXEMIC CELISITE IS IN TILL COMMERCIAL OPERATION, ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DESIGNET THE EXSTING MORA. COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BY SCHEDULD FOR AN APPROPRAITE WANTENWACE WINDOW USUALLY IN LOW TRAFFIC WORK OR CONSTRUCTION 4. THE CONTRACTOR SHALL NETALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS UNLESS STECHCOLLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGLATIONS TAKE PRECEDENCE.

SINCE THE CALLSITE B ACTINE, ALL SAFETY PECULIDISE MAST BE TAKEN WHEN WORKING AROUND HIGH LEAGS OF ELECTROMAGNETIC RUDATION. EXULPHENT SHOULD BE SHUTDOWN. ANY WORK THAT COLUD DEFOSE THE WORKERS TO BAY DAWGEROUS BROSSIVE LEAGS.

CONTRACTOR SHALL DETSAINE ACTUAL BOUTHIG OF COIDUIT, POWER AND TI CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWANG. BESTING TRAYS ANDICK SHALL ADD NEW TRAYS AS NECESSARY, CONTRACTOR, SHALL CONFRAN THE ACTUAL BOUTING WITH THE CONTRACTOR.

CONTRACTOR SHALL LEGALLY AND PROTERLY DISPOSE OF ALL SCRAF NATERIALS SUCH AS CONSAL CABLES AND OTHER TITAGE PRAINTED FROM THE EXISTING PACILITY. ANTENIAVE REACOND SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION.

APPLICABLE CODES, REGULATIONS, AND STANDARDS

BY THE CODE ENFORCEMEN

6. RETREBUTATIONS OF TRUE NORTH, OTHER THAN THOSE YOUND ON THE THAT OF SHAREN DEPARKS OF TRUE NORTH AT THE SHITE. THE CONTRACTOR SHALLES MACHINE FLOOT OF SHAREN TRANSMERS AND ASSET AT THE SHITE NEW THE NEWSTH, AND SHALL MOTH'THE ARCHITECTOROMENS. THOSE OF PROCESSING WHITH THE WORST OF ANY CONTRACT HE MODERNING THE WORST OF BRANKES AND THE TRUE NORTH ORBITATION AS DEPICTED ON THE CONL. SHAREN: THE CONTRACTOR SHALL ASSIME SOLE LUBSLITY FOR ANY PALLIFE TO NOTH'THE MODIFIEST.

7. THE BUIDING DEPARTMENT BEUING THE PERMITS SHALL BE NOTHED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIFULATED

8. Do not excavate or disturb beyond the property lines or lease lines, unless otherwise noted.

OFFICIAL HAVING JURISDICTION.

5. AL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COCURDAN FROMERARITS RESARDING PRESIDENCE, FOR, BUT NOT LIMITED TO, FIPMG, PRITURES, CELLING GRED, INTERIOR, AND MECHANICAL EXAMPLED. TALL WORK MIST COMPLY WITH LOCAL ENGING INDECADATIONS.

3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE

CONTRACTORS WORK SHALL COMPLY WITH ALL APLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL ALTHORITY HAVING JURISDICTION (ANJ) POR THE LOCALION

THE EDITION OF THE ANJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN

9. ALL BESTING UTLITES, FACILITES, CONDITIONS, AND THER DAMEBIONG SHOWN ON THE FLAN HAVE BERN FLOTTED TROAN AVAILABLE RECORDS. THE ARCHITECTENGMETS AND THE CONNECTONS SHOWLE BY RESPONSABILY TO THE REMOVAL OR ADJUSTINGSTONE SHOWLE BY RESPONSABILY FOR THE CONNECTONS SHOWLE BY RESPONSABLE DAVIL DAVINGSTONE SHOWLE BY REMOVAL OR ADJUSTINGSTONE SHOWLE BY REPORTED THE AND THE PROPERTY OF A BY REPORTED THE AND THE PROPERTY OF ALL DESINE OF THE LOCATION OF ALL DESINE OF THE LOCATION OF ALL DESINE AND THE CONNEWY TEMADE INTO REMOVAN CENTRAL PROPERTY OF THE PROPERTY OF THE PROPINITY OF THE PROPERTY OF THE PROP

IO, CAMINACIOR SHALI MEBY ALL BIGTING UTULICE, BOTH HOWIZONTA, AND VRICICALLY, FROX TO THE STAKE OF CONFINCTION, ANY DESCREMACIES OR DOLDINGS. AS TO THE MITERITED AND DESCREMACIES OF ICACID AND CORRECTED. SHALL BE PREFORMED UNTL. THE DESCREMACY IS CHECKED AND CORRECTED BY THE ARCHITECT BIGNERER, PAULNE TO SECORE SUCH INSTRUCTION MANIS CONTRACTOR WILL HAVE WORKED AT HISHERS OWN RESE, AND PREFISE.

I 2. ANTORNIA MODOR FIED THE ENCONTREED DISTRICTORY SHALDE FETINISME TO SOREIMAL CONTITION PRIOR TO COMPLETION OF WORK, SIZE, LICCATON AND THE OF ANY UNITS OR IMPROVALENTS SHALDE ACCURATELY INSTITE AND AND PACED ON MESULIE DRAWINGS BY CEMENAL CONTITION OF SECULIE OF MESULIE OF ACCURATION OF PROJECT.

13. ALI TENTORNY DICAMATONS FOR THE NETALATION OF FOUNDATIONS, UTILITES, ETC, SHALL DE PROFERY LAD DACK OR RANCID IN ACCORDANICE WITH CORRECT COCUPAT, ADMINISTRATION (OSHA) PECULIFICATIOS.

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

17. ALL EQUIPMENT, INCLUDING ANTENAVS, INCLININGSTANDOFF BRACKETS, POLE BITENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED MISA BROWN USING A DURABLE CUTDOOR PAINT 16. CABLING SHALL DE MESA BROHN IN COLOR AND SHALL DE INSTALLED IN A TIDY MANNER WITHOUT DICESS CABLE LOOPS, \$ SHALL DE HIDDEN PROM VIBY TO THE MANNIM BITRIT POSSIBLE.

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

16. POIDATED REWACKARRING SIGNACE SHALL FACE OUT TO STREET WHEN PLACED IN PRONT OF OR NEAR A WINDOW. SIGNACE SHALL FACE TOWARD THE BUILDING IF THERE IS NO WINDOW.

15. ALI BOUMBIT LOGGS, OTHET THAN THOSE REQUIRED BY REQUATION (E.G. NODE DENTIFICATION OR SHILD ONE) CANDED FOR CANDED FO

14. INCLUDE MISC ITEMS PER AT#T WIRELESS SPECIFICATIONS.

CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS

-NOTITION FOR ELCTRICAL AND ELCTRICANCS BARNETS (IETS 6), GLIDE FOR NEGELING EMETHESISTATIF, GROJAID IMPERANCE, AND EMETH SURPACE POTRETI (1999) RECOMMENDED TRACTICE FOR POMERIAG AND GROJANDING OF ELCTRICAL EQUINABIT FEEK CG2.41, PECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AS FORMER CRICLITS (FOR LOCATION CATEGORY VCS" AND YHARI SHITEN BEYCSJAR?)

COMMERCIAL BUILDING GROUNDING AND BONDING REQUIR

NOWAL SAPETY AND HEALTH

OR REMOVED.

TELCORDIA GR. I 275 GENERAL INSTALLATION REQUIREMENTS TELCORDIA GR. I 503 COAMAL CABLE CONNECTIONS ANY AND ALL OTHER LOCAL # STATE LAWS AND REGULATIONS RESTRICTIVE SHALL GOVERN. WHERE for any conflicts between sections of listed codes and There is conflict between a general requirement and syfe

Phone: (530) 823-6546 www.pdnd.cor Duffing, INC.

USE 112" DA. CARLE ON ANTRANAS UNILESS OTHERANCE, STICCHED. FLACE GFS CIN HAM OF SCUTHERN SKY DEPOSIUTE AT MANINAM G. PROM TRANSMIT ANTBINA WHICH IS 24" AMAY TROM CENTER OF POLE. PILL VOID ARCHAD CABLES AT CONDUIT OPERING WITH FOAM SEAJANT TO PREMEN WATER INTRUSION.

ABBREVIATIONS

USE 80° CONNECTOR AT CABLE CONNECTION FOR OANN DOWN ANTIBNUS. USE CABLE CLAMPS TO SECLIRE CABLLE TO ARMS, PLACE 2" T-MOBILE CABLE I.D. TAGS ON BOTH SIDES OF ARMS.

all holes in pole left from rearrangement of climbers to e 90° short sweeps under antenna arm, all cables must tran

CRAN_RSFR_LOSAO_06

ROW ADJCT TO 791 LOS ALTOS AVE LOS ALTOS, CA 94022

ISSUE STATUS

DATE DESCRIPTION 06/13/18 CD 90% 10/29/18 CD 100%

O. REDDISH CHECKED BY: 1. DICARLO B. McCOMB APPROVED BY: DRAWN BY:

10/29/18 SHEET TITLE DATE

7



PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBIAD OR STRONG BOX. WOOD MOULDING, STAPLED EVERY 3" AND AT EACH BND.

GENERAL CONDUIT NOTES

5/8' x 10' rod), cad weld below grade ground tested at 5 ohias or less. FS ground and bond wire. Grounds 3' from pole.

GENERAL GROUNDING NOTES

AT¥T MOBILIY 5001 EXECUTIVE PARKWAY 5AN RAMON, CA 945&3

at&t



ALL CONDUITS WILL BE IMMORELED MO EXAMPTED WITH 38° FULL KOPE.
SCHEDULE 40 CONDUIT FOR BLOOD USE.
SCHEDULE 40.
CONVERT FOR UNDUIT FOR ANY CONDUIT UNDER 3°, SING UP 10° THEN CONVERT TO SCHEDULE 60.
CONVERT FOR CONDUIT FOR ANY CONDUIT. FOR ANY CONDUIT, FOWER COMPANY TO CONVERT FROM 3° SING SCHEDULE 60 TO 2° SCHEDULE 60 FROM TOF OF SING UP.

TYPICAL R.O.W. POLE CONSTRUCTION NOTES

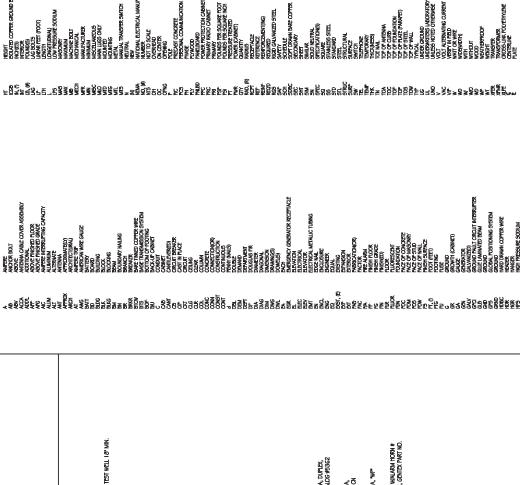
CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE.



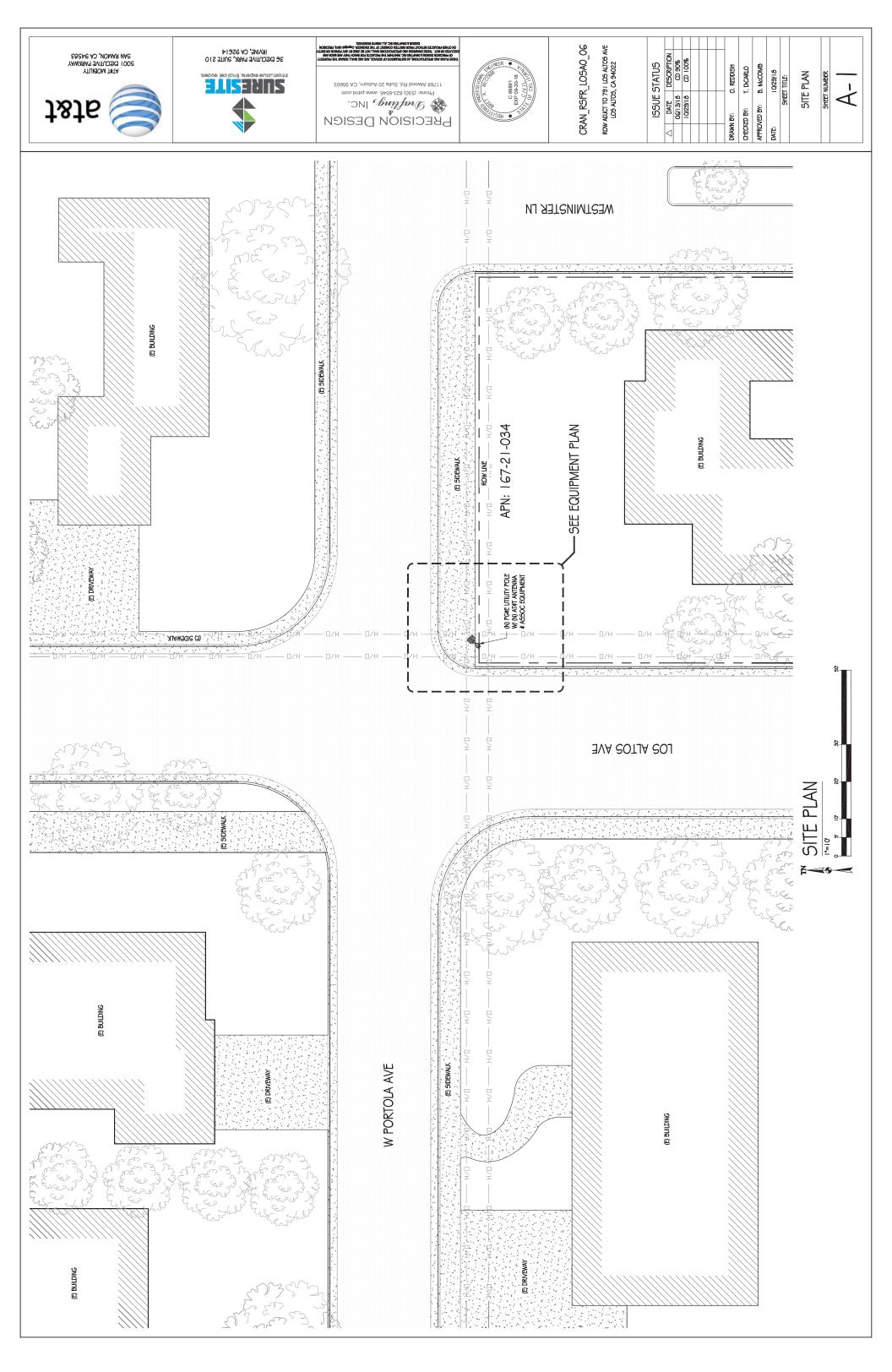


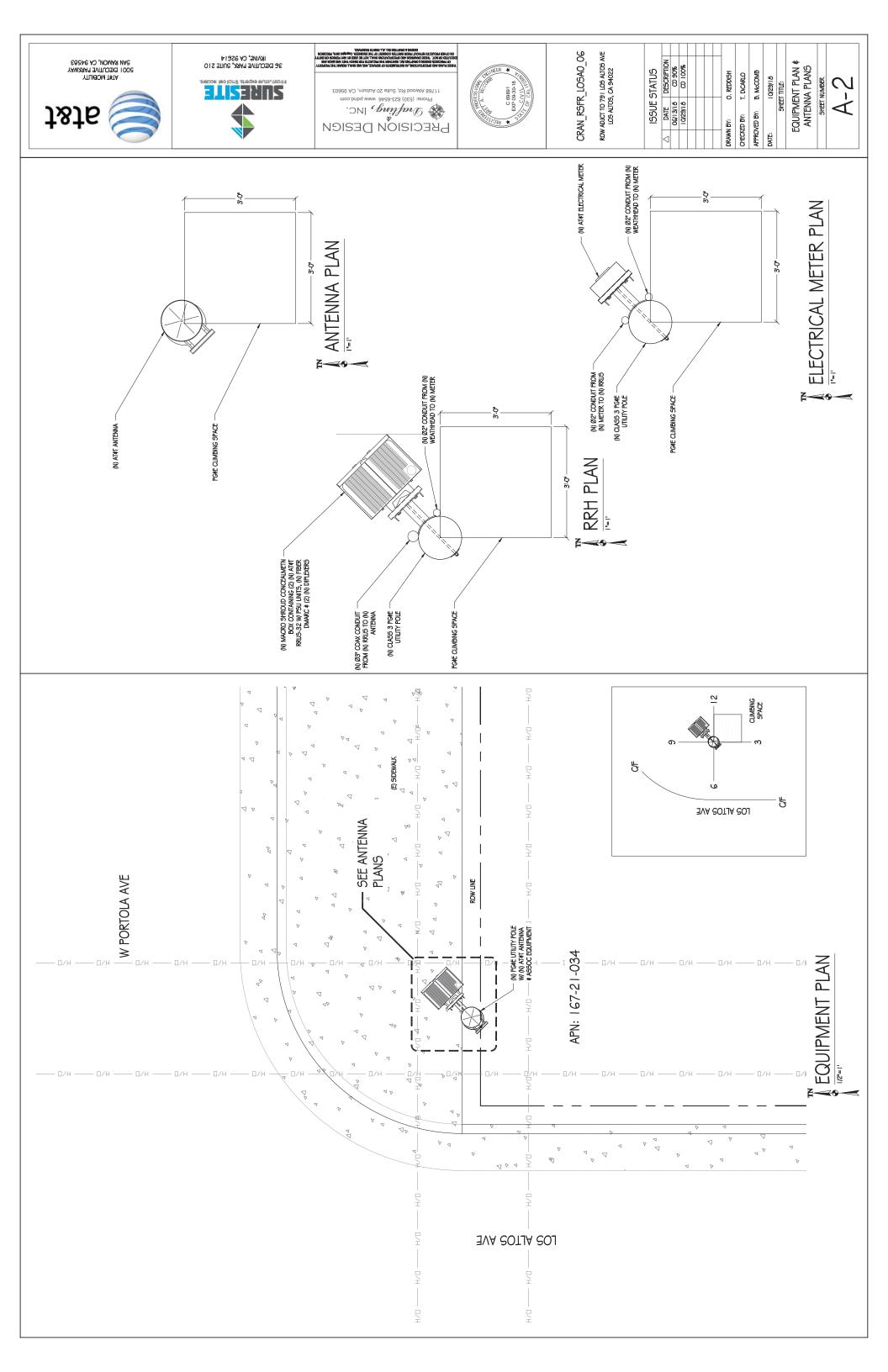
PREC		28 *			
			AGGOC.		
HEIGHT SOLATES COTTER GROUND BUSS- INCHES) HOTHEROR POUNDES! HOWER TOT TOO! LINCHEST TOO!	LOW PEESURE SODUM MASONRY MASONRY MASONRY MECHALICAL MANUFACTIRER MINAMIA MINAMIA	MAN LUGS ONLY MOUNTING MOTATING METAL MANUAL TRANSFER SWITCH NEUTRAL	NATIONAL ELECTRICAL MANUFACTURES ASSOC. NUMBER NOT TO SCALE OVERVEND	ON CENTER OPENING POLE	PRECAST CONCRETE PERSONAL COMMUNICATION SERVICES PHASE
F 500 F 1 F 1 F 1 F 1 F 1 F 1 F 1 F 1 F 1 F	SE S		AMON NO SEN OF S	26° 28°	កភូរ

NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	NUMBER NOT TO SCALE	OVENIER ON CASTER OPPING	POLITICAL COLORES	PESONAL COMMUNICATION SERVICES	FLWOOD	PANELBOARD POWER PROTECTION CABINET	PRIMARY RADIO CABINET	POUNDS PER SQUARE FOOT	POUNDS PER SQUARE INCH PRESSURE TREATED	POWER (CABINET)	RADIUS	RECEPIACE	RETAKENCE REINFORCEMENT(ING)	REGUIRED	RIGID GALVANIZED STEEL.	SCHEDUL	SOFI DRAW BARE COPPER	SHET	SOUD NEUTRAL	SPECIFICATION(5)	SYNUTS STEEL	STANDARD	STRUCTURAL	SURFACE	TELEFHONE	TEMPORARY	TOP NAIL	TOP OF ANTENNA	TOP OF FOUNDATION	TOP OF STEEL (PAKAPET)	TOP OF WALL	UNDER GROUND	Underwatters Laboratory Inc. Unless noted otherwise	non	VOLI ALIENATINS CUNCENI VERIFY IN PIELD	WATT OR WRE WIDEWIDTH)	WITH	WOOD	WEIGHT	TRANSFER
NEWA	8 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	88	2 5 a. i	₹2;	EÈ		J.	z iz	ĒŁ	J.	Z4D.	þ		RECOD	885 445	Š		동	56))))	78	g	SIRIC	SUR P	ħ≓	A F	É	ğβ	þ	ģ	25	= 9	님	>	Š	»§	≥	2	*	K S



	5/8" X 10-0", C.U. GND ROD IN TEST WELL 18" MIN. PAPI OW CRADIE	CHEMICAL CROIMD ROD	(XIT GROUND ROD)	CADWELD CONNECTION	MECHANICAL CONNECTION		וואדם פארסטום כיסטאודים ווכוא	CIRCUIT BREAKER	SO I BOLOTI / LILLI	סוודון שבודא סאכר	TRANSFORMER	STEP-DOWN TRANSFORMER	RECEPIACLE, 2P-3W-125V-15A, DUPLEK, GROUND TYTE, HUDRELL CATALOG #5382	TOGGLE SMITCH, IP-125V-15A, HIBBRIL CATALOG #PBL 1201(X)	TOGGE SWITCH, IP-120V-15A "WP"	IONIZATION SAVOKE DETECTOR WAJARA HORN # AMMLARY CONTACT, I 20 VAC, GRITER PART NO. 7107#	POLE	(N) POLE MOUNTED XPMER	(E) POLE MOUNTED XPAR	(N) PAD MOUNTED XPARR	(E) PAD MOUNTED XFMER
	•] (•	•	7	\langle	6	•	*	—	• •	S	$S_{_{WP}}$	\odot		4	\triangleleft	•	
	— TELCO RUN	— POWERTELCO RUN	BOART INTO STREET FOR	— GROUNDING CONDUCTOR	— Grounding Conductor	— CONDITE INDERGEOIND		FLISE, SIZE AND TYPE AS INDICATED.	SAFETY SMITCH, 2P-240V-60A WISOA FUSES, NENA 3R.	ENCLOSURE, SQ D CATALOG NO. H222NRB	MANUAL TRANSFER SWITCH, 2P-240V-2004, NO FUSE, NEWA 3R ENCLOSURE	LIGHTING FIXTURE, FLUORESCENT, 10.34" x 4"-0", 240W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG AMEMORYT	FW3W5261 LIGHTING FRXURE, FLLORESCENT, 10.34° x 8°-0°, 285W, SURFACE WOUNTING TIPE, HUBBELL LIGHTING CATALOG	LIGHTING PRYLIKE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG ANG-307 OR 1/50W, HUBBELL LIGHTING CATALOG ANG-121	EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, WITATTERY PACK, HUBBELL LIGHTING CATALOG #PRE	COMBINATION, EVIT SIGN & BAIFRGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PRC	EMERCENCY LIGHTING, 2750W, HUBBELL LIGHTING CATALOG #166-50-2-R91	LIGHTING FYTURE, INCRAIDESCENT, 1/1 OOW, WALL MOUNTING TIPE, HUBBELL LIGHTING CATALOG FIRSH 1 00-06-1	LIGHTING FIXTURE, HALDGEN, QUARTZ, 1/300W, HURBELL LIGHTING CATALDG#QL-505	LIGHTING FIXTURE, 1/175W: METAL HALIDE, HUBBBLL CAT #MIC-0175H-336	5/8° X 10-0°, CU. GND ROD 18° MIN. BELOW GRADE.
		— P/T —	c	ا و ا					Ì		Ī			早	\$			9		Ā	•
	GROUT OR PLASTER	C) BRICK	CITITITITITITITICS (E) MASONRY	CONCRETE	EARTH -	F S S S S S S S S S S S S S S S S S S S	GOOWIN CONTROLLED IN THE CONTROL OF	dws	WOOD CONT.	WOOD BFOCKING	VARIATION STEEL	CENTRUNE	FROFERINGLASE LINE MATCH LINE MATCH LINE	WORK PONIT	ı	CLIHA COMMULCIAGE 0-44 COMUCCIAGE COMUCCIAGE	ı	——OHT/OHP—— OVERHEAD TELFTONE LINE OVERHEAD TELFTONE LINE	OHP OVERHEAD FOWER LINE	P POWER RUN	
	NEW ANTENNA	EXISTING ANTENNA	GROUND ROD	GROUND BUSS BAR	MECHANICAL GRND. CONN.	GROUND ACCESS WELL	VOI CIETCH II	NO DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA C	TELEPHONE BOX	LIGHT POLE	FND. MONUMENT	SPOT BLEVATION	SET POINT	REVISION	GRID REFERENCE	DETAIL REFERENCE	ELEVATION REFERENCE	SECTION REFERENCE			
SYMBOLS LEGEND	ŀ	()	\otimes	ţ	•	\boxtimes	u	1	I	\dot{\phi}	0	•	◁	< (* (XXX •					





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(E) CROSSARM W/ PRIMARY WIRES TO BE RELOCATED

(E) 15 KVA TRANSFORMER TO BE RELOCATED

(E) CROSSARM W/ PRIMARY WIRES TO BE RELOCATED

(E) STREETLIGHT ARM TO BE RELOCATED

(E) SECONDARY TO BE RELOCATED

(E) UTILITY BOX

(E) WOOD UTILITY POLE, TO BE REMOVED ¢ REPLACED

AT∳T MOBILITY 5001 EXECUTIVE PARKWAY 5AU RAMON, CA 94583

at&t



A-3 SHEET NUMBER

O. REDDISH T. DICARLO

B. McCOMB APPROVED BY: CHECKED BY: DRAWN BY:

10/29/18 DATE

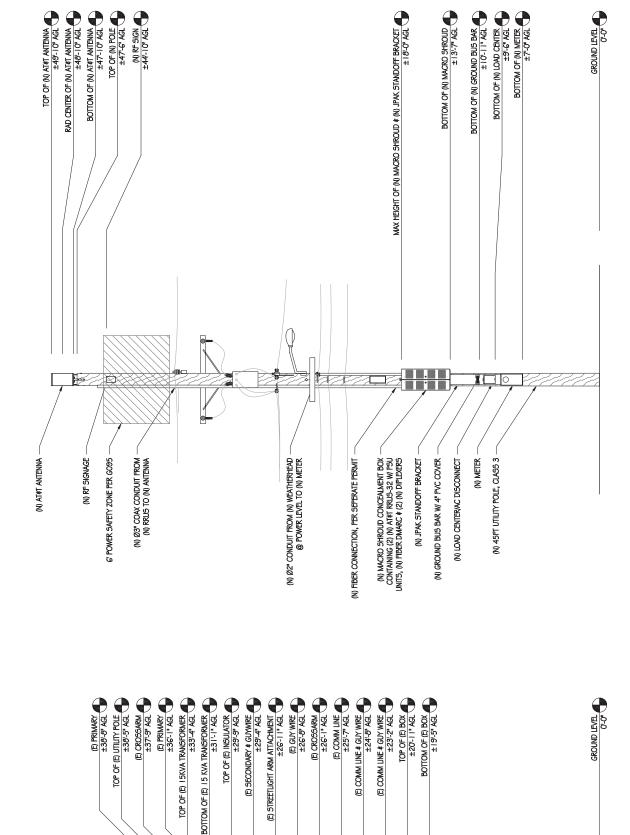
NEW NORTH ELEVATION

1/4"=1"-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN
NOTE: ALL (E) EQUIPMENT TO BE REMOUNTED AT SAME ELEVATION ON (N) POLE

ELEVATIONS

CRAN_RSFR_LOSAO_06 ROW ADJCT TO 791 LOS ALTOS AVE LOS ALTOS, CA 94022 DATE DESCRIPTION 06/13/18 CD 90% 10/29/18 CD 100% ISSUE STATUS



EXISTING NORTH ELEVATION

AT¢T MOBILITY 5001 EXECUTIVE PARKWAY 5AN RAMON, CA 945&3

at&t





PRECISION DESIGN





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	CRAN_RSFR_LOSAO_06

ROW ADJCT TO 791 LOS ALTOS AVE LOS ALTOS, CA 94022

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ISSUE (ISSUE STATUS
DATE	DESCRIPTION
81/81/90	306 CD
81/67/01	CD 100%

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SSUE STATUS	DESCRIPTION	‰06 Œ	‰001 ab		
ISSUE:	DATE	81/81/90	81/67/01		

O. REDDISH CHECKED BY: T. DICARLO DRAWN BY:

B. McCOMB 10/29/18 SHEET TITLE APPROVED BY:

ELEVATIONS

A-4

TOP OF (N) AT#T ANTENNA ±49-10° AGL RAD CENTER OF (N) AT#T ANTENNA ±48-10° AGL BOTTOM OF (N) AT#T ANTENNA ±47-10° AGL (N) RF SIGN ±44'-10" AGL MAX HEIGHT OF (N) MACRO SHROUD ¢ (N) JPAK STANDOFF BRACKET ± 10°-0° AGL BOTTOM OF (N) GROUND BUS BAR ± 10-11" AGL BOTTOM OF (N) LOAD CENTER ±9-6" AGL GROUND LEVEL O'-0" TOP OF (N) POLE ±47-6" AGL BOTTOM OF (N) MACRO SHROUD ±13-7" AGL BOTTOM OF (N) METER ±7'-0" AGL (N) RF SIGNAGE 6' POWER SAFETY ZONE PER 6095 (N) Ø3" COAX CONDUIT FROM (N) RRUS TO (N) ANTENNA BEYOND POLE (N) Ø2" CONDUIT FROM (N) WEATHERHEAD @ POWER LEVEL TO (N) METER (N) MACRO SHROUD CONCEALMENT BOX CONTAINING (2) (N) AT#T RRUS-32 W/ PSU UNITS, (N) FIBER DMARC ¢ (2) (N) DIPLEXERS (N) GROUND BUS BAR W/ 4" PVC COVER (N) METER (N) AT¢T ANTENNA (N) JPAK STANDOFF BRACKET (N) LOAD CENTER/AC DISCONNECT

(E) GUY WRE ±26'-8" AGL (E) CROSSARM ±26'-1" AGL

(E) COMM LINE ±25'-7" AGL

(E) COMM LINE # GUY WIRE ±24'-8" AGL

(E) COMM LINE & GUY WRE ±23'-2" AGL

(E) CROSSARM ±37'-9" AGL

TOP OF (E) UTILITY POLE ±38'-5" AGL

(E) CROSSARM W/ PRIMARY WIRES TO BE RELOCATED

(E) CROSSARM W/ PRIMARY WRES TO BE RELOCATED

(E) 15 KVA TRANSFORMER TO BE RELOCATED

(E) GUY WIRE

(E) STREETLIGHT ARM ATTACHMENT

(E) CROSSARM W/ SECONDARY TO BE RELOCATED

(E) PRIMARY ±36'-1" AGL

TOP OF (E) 15KVA TRANSFORMER ±33'-4" AGL BOTTOM OF (E) 15 KVA TRANSFORMER ±31'-1" AGL

TOP OF (E) INSULATOR ±29'-9" AGL (E) SECONDARY & GUYWIRE ±29'-4" AGL (E) STREETLIGHT ARM ATTACHMENT ±26-111" AGL TOP OF (E) BOX ±20-11" AGL BOTTOM OF (E) BOX ±19-5" AGL

(E) WOOD UTILITY POLE TO BE REMOVED # REPLACED

(E) UTILITY BOX

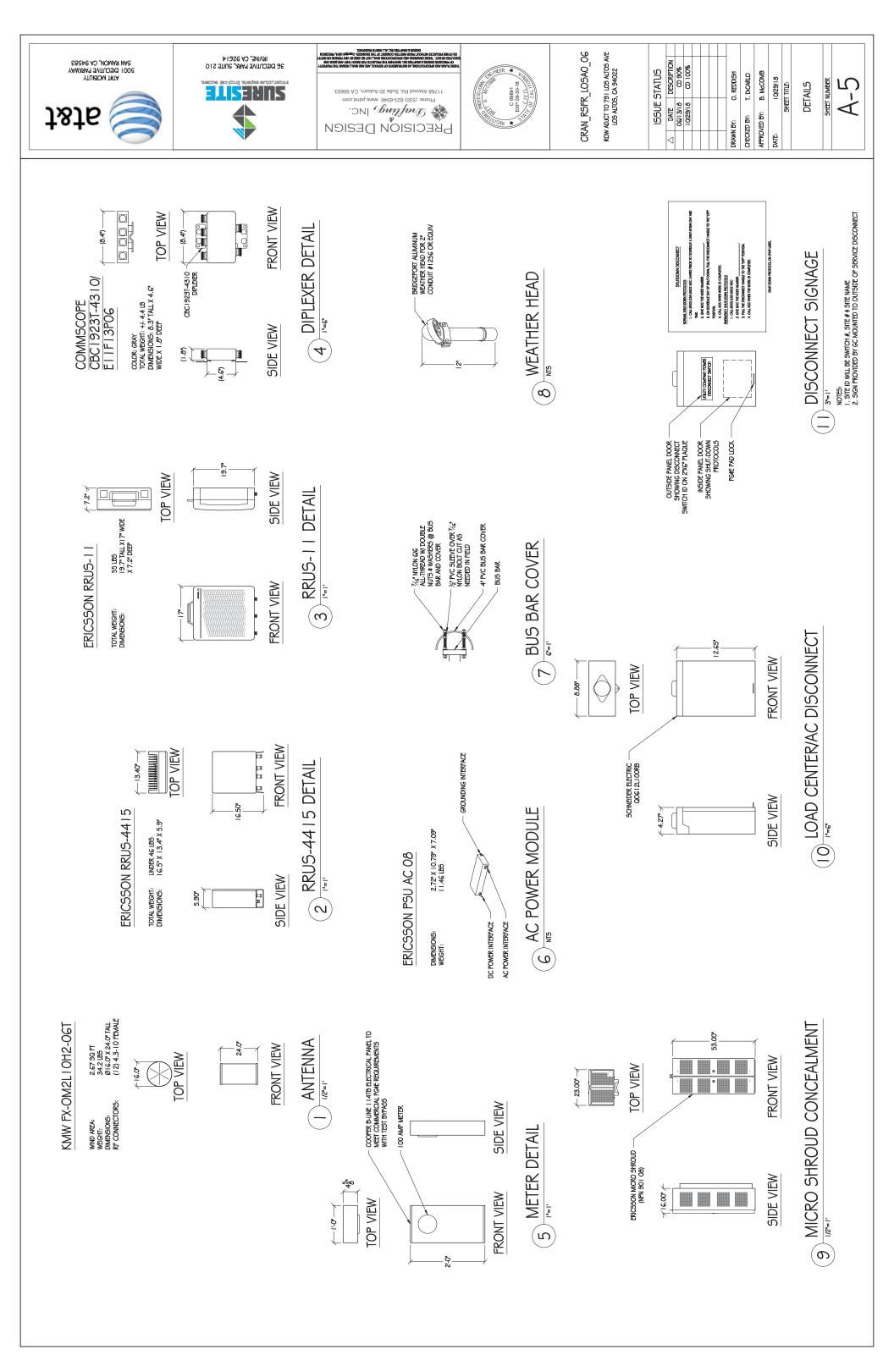
EXISTING WEST

GROUND LEVEL O'-O"

NEW WEST ELEVATION

1,44=1:-07

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN
NOTE: ALL (E) EQUIPMENT TO BE REMOUNTED AT SAME ELEVATION ON (N) POLE



STRUCTURAL STEEL NOTES

- AL STEEL CONSTRUCTION INCLIDING FABRICATION, FRECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AJSC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A3G UNLESS OTHERWISE NOTED. ALL WF (WDE FLANGE) # WT (TE) SHAPES TO BE ASTM A392 (F_F=50,000 Ps) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS9) SHALL BE ASTM A500 GRADE B (F_F=46,000 Ps)). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR 5, GRADE B (F_F=35,000 PS)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED. ĸi

CANISTER ANTENNA LOCK WASHER % HDG (6 TOTAL)

- ALL WELDING SHALL BE PERFORMED USING F70XX 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. က်
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS. 4.

GALVANIZED HEX LAG —
SCREW/§x2* (9 TOTAL)
POLE MOUNTED BRACKET —
(3 TOTAL)

NUT HEX, 3/8-16 HDG (6 TOTAL)

AMPHENOL UTILITY MOUNTING KT WB3X-MK5-01

WOOD UTILITY POLE

BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, 4 SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.

r.

- THREADED RODS SHALL BE ASTIM FS93 CW 304/316 STANLESS STEEL. BOLITED CONNECTIONS SHALL BE BEARING TIME. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLIS. ė
- ALL HOLES FOR BOLITD CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLI DIAMETER. UDES STANDARD ASIC GAGE AND PITCH FOR BOLIS EXCEPT AS NOTED OTHERWISE, HOLES FOR ANCHOR BOLIS IN BASE LAFTES MAY BE ASIC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDRID THE WASTER DAY. ۲.
- ALL SHOF FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTEXIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM AI 23 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN. ø.
- al 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 drosed. 6
- AT ALL WEB STIFFENER PLATES LEAVE 3/20 (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE. <u>o</u>

WOOD PG#E POLE







CRAN_RSFR_LOSAO_06

ROW ADJCT TO 79 I LOS ALTOS AVE LOS ALTOS, CA 94022

	ISSUE (ISSUE STATUS
⊲	DATE	DESCRIPTION
	06/13/18	CD 90%
	10/29/18	CD 100%
DRAWN BY:		O. REDDISH
SHECK	CHECKED BY: T	T. DICARLO

APPROVED BY: B. McCOMB 10/29/18 Sheet title: DETAILS

A-6



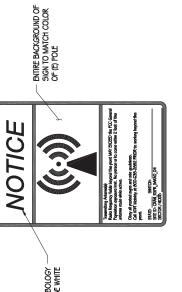




NOTICE IS A VINYL STICKER ADHERED TO POLE

4" STANDOFF SQ ALUMINUM TUBE Ø 3/4" GALVANIZED THRU BOLT, TYP

4" MIN -

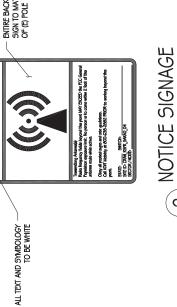


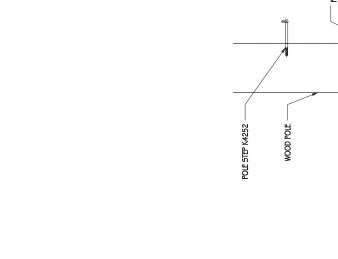
AT¢T MOBILIY 5001 EXECUTIVE PARKWAY 5AN RAMON, CA 945&3

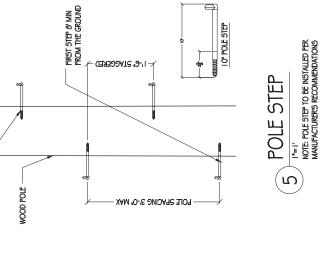
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POLE-TOP ANTENNA MOUNT DETAIL



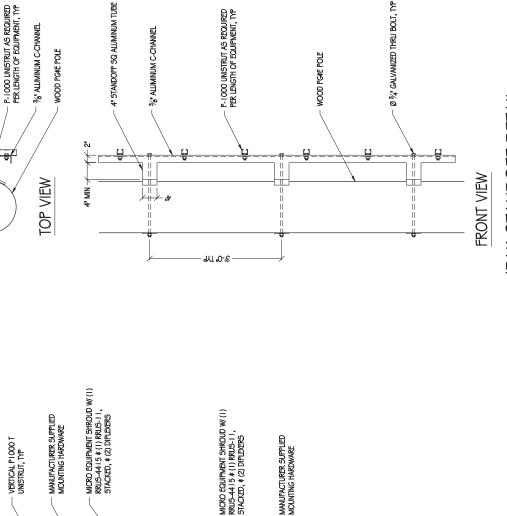












VERTICALP I 000T UNISTRUT, WOOD PG4E POLE

JPAK STANDOFF BRACKET

س√² GALY THRU BOLT REQUIRED FOR (3) RRU MOUNTING, TYP

PLAN VIEW

س√² GALV THRU BOLT REQUIRED FOR (3) RRU MOUNTING, TYP Ø3/6" BOLTS, LWS ¢ NUTS, TYP JPAK 1000-7 STANDOFF BRACKET





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 CALFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MASSHALL ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWITERS LABORATORY (UL) OR AN APPROVED TESTING LABORATORY, PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT. ĸi
- 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 INURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS & WARNINGS. ω;
- COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES
- ALL SAW CUTTING, TRENCHING, BACK FILLING ¢ PATCHING SHALL BE PART OF THIS CONTRACT.

r,

- FINALIZE ALI ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETALLS, COORDINATION OF THE INSTALLATION & PRAMBAT OF ACCUBLE CHARGES WITH LOCATION-PARK TOUTHER, FORTLALLS WITH LOCATE OF THE RECUIREMENTS SHOWN IN THE CONFIRMANT OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES. ف
- 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 TWA".
- PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT. ø.
- FUSES SIZED TO EQUIPMENT 5, SWITCHES AND OTHER OUTDOOR uniess shown otherwise, fused disconnect switches shall be provided with low-peak, sdual element in Nameplate fuse current rating. Motor starters shall be provided with similarly sized fusible elements, equipment shall be rated nema sr and/or ul listed for wet environment. 6
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GROUNDING SYSTEM AND ENGURING 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. <u>o</u>

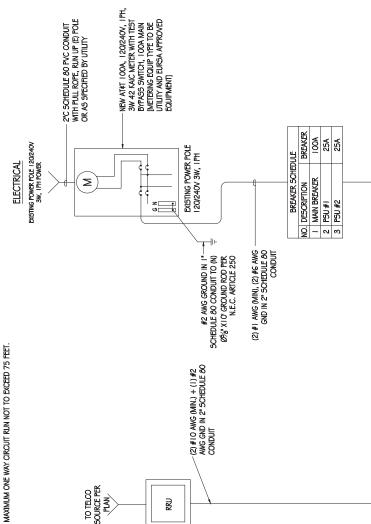
POWER AND TELCO NOTES:

- 1. 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 WORKMATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK. ત્રં
- 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. ω;
- CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.

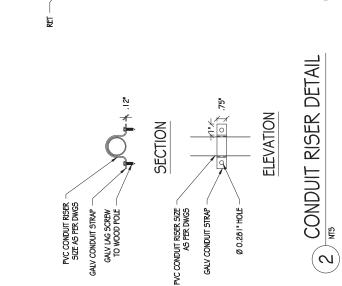
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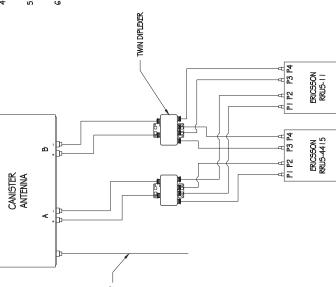
- CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/UTILITY CABINET.
- ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS ڧ
- CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
- FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
- ø.

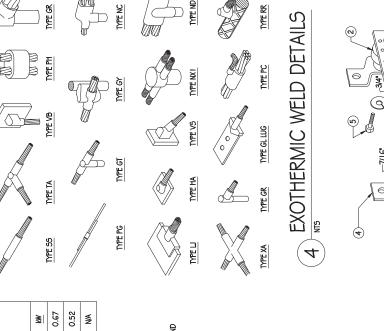
TO TELCO SOURCE PER PLAN



RRU







FINISH SURFACE COMPOUND DIRT, GRAVEL OR OTHER

(E) POLE

RESTORE SURFACE TO ORIGINAL CONDITION

GROUNDING CONDUIT OR HALF ROUND

TEST WELL WITH HAND REMOVABLE COVERED LABELED 'GROUND ROD' (G-6" PVC OR CHRISTY FI 4 BOX W/ ADAPTERS & EXTENSIONS AS REQUIRED OR EQUIV)

TEST LOOP 8" MAX BELOW GRADE

NIW "9-

(E) GRADE

36 EXECUTIVE PARK, SUITE 210

AT¢T MOBILIY SOO I EXECUTIVE PARKWAY SAN RAMON, CA 945&3

520 ¥ 079

MAX TRANSMIT POWER

4 X 40W 2 X 40W ≸

TX/RX 21/2R

LOAD SCHEDULE

2T/2R ≸

55 LBS 46 LBS

16.5" X 13.4" X 5.9" 19.7" X 17.0" X 7.2" 12.7" X 8.9" X 4.3"

DIMENSIONS

DESCRIPTION

QUANTITY

MAKEMODEL

ERICSSON RRUS-4415

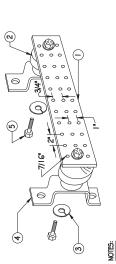
40 LBS (MAX)

DISCONNECT RRUS RRUS

> NEMA 3R ENCLOSURE ERICSSON RRUS-11

≸

at&t



Phone: (530) 823-6546 www.pdnd.com

PRECISION DESIGN

GALYANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)

POLE GROUNDING DETAIL

2. EXPOSED CONCRETE TO HAVE BROOM FINISH

I. IF GROUND ROD IS INSTALLED ON SIDEWALK AREA, CORE DRILL SIDEWALK PRIOR TO INSTALLING INSPECTION WELL

2'-0" TYP ON EA SIDE OF POLE

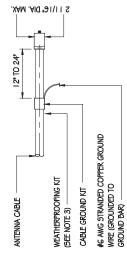
TYP CADWELD

Ø%" X 10' GROUND ROD

- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
- 5,6º 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" HHC5 BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL
- INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWERMONOPINE STRUCTURE. CONNECTION TO TOWERMONOPINE STRUCTURE. SHALL BE PER MANUFACTURERS RECOMMENDATIONS.



CRAN_RSFR_LOSAO_06



I. 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

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L

SINGLE-LINE DIAGRAM ≰ DETAILS ROW ADJCT TO 791 LOS ALTOS AVE LOS ALTOS, CA 94022 DATE DESCRIPTION OG/13/18 CD 90% ISSUE STATUS O. REDDISH T. DICARLO B. McCOMB 10/29/18 SHEET TITU CHECKED BY: APPROVED BY: DRAWN BY: DATE

> ७ **WIRE DIAGRAM DETAIL**

STS

m

SINGLE-LINE DIAGRAM











GROUNDING PLAN

SSUE STATUS	DESCRIPTION	2006 CD
ISSUE	DATE	81/21/20
	7	

ISSUE STATUS	DESCRIPTION	%06 ab	‰001 ab			о. Керрізн	T. DiCARLO
ISSUE	DATE	06/13/18	10/29/18				
	⊲					DRAWN BY:	CHECKED BY:

APPROVED BY: B. McCOMB
DATE: 10/29/18
SHEET TITLE:

GROUNDING DIAGRAMS

E-2 SHEET NUMBER

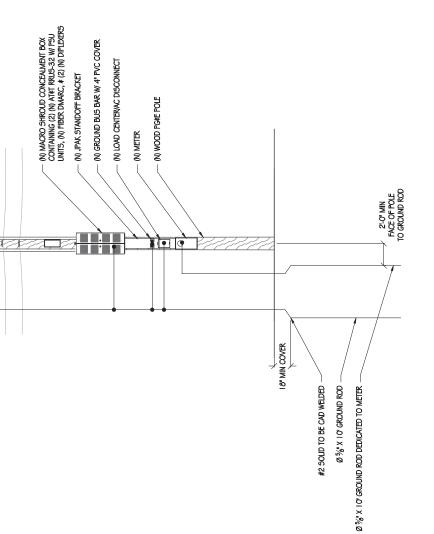
CRAN_RSFR_LOSAO_06 ROW ADJCT TO 791 LOS ALTOS AVE LOS ALTOS, CA 94022

IO' GROUND ROD, IO" MIN COVER

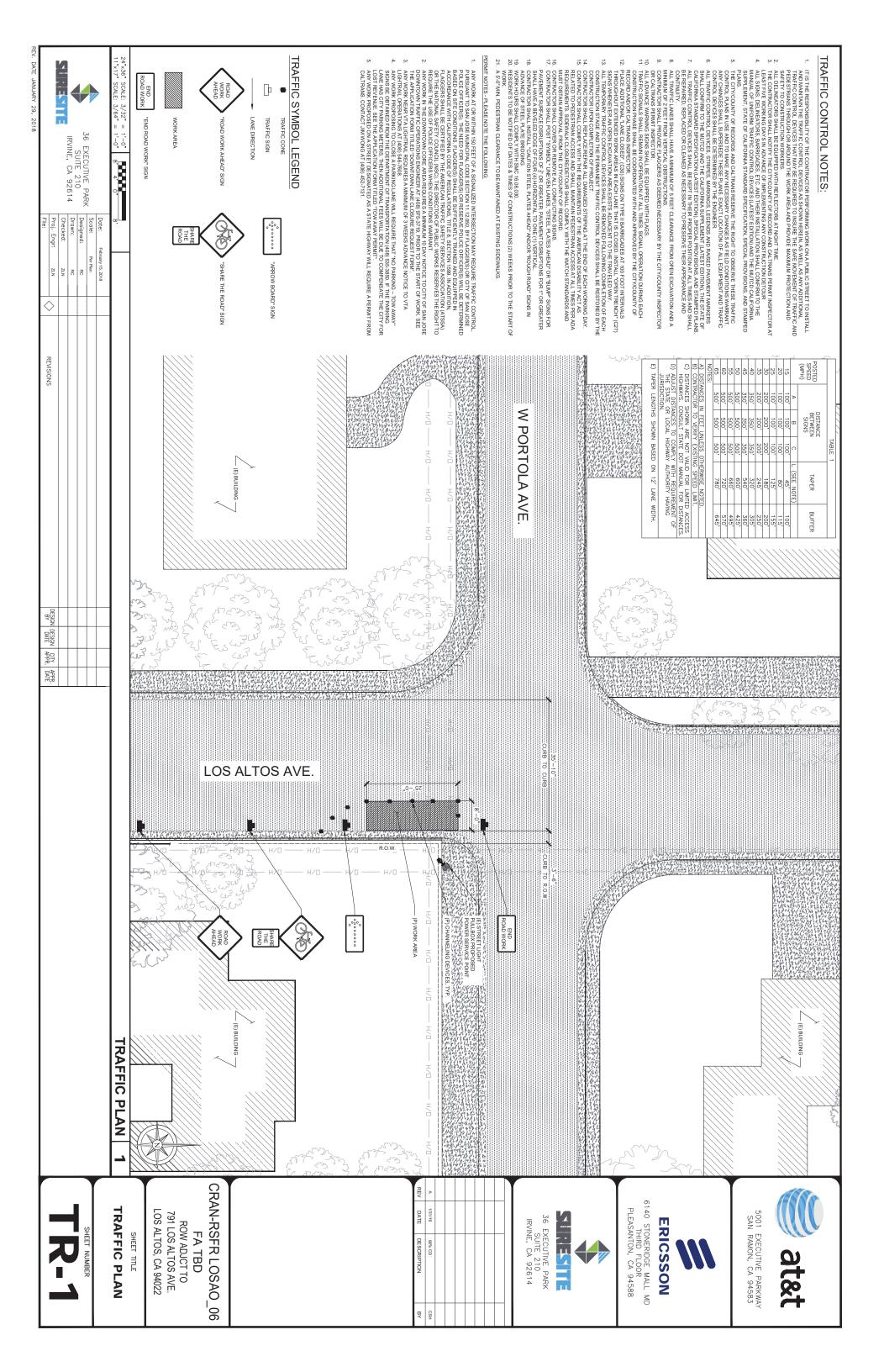
(N) #2 SOUD GROUND WRE RUN IN WOOD MOULDING W/ GALV STEEL STRAPS AT 3-0" MAX OC PER PC#E STANDARDS (LOCATE NEAR (F) POWER GROUND WIRE IF PRACTICAL) CRIMP TO BUSS BAR

GROUND BUS BAR W/ 4" PVC COVER

10' GROUND ROD, 18" MIN COVER, DEDICATED TO METER WOOD PG4E POLE



POLE GROUNDING DIAGRAM





CRAN RSFR LOSAO 06 SITE ID:

791 LOS ALTOS AVE SITE ADDRESS:

LOS ALTOS, CA 94022

PM#: 114474404

SITE TYPE: BRAND NEW PG&E POLE #TBD

POLE OWNER: PG\$E

FA LOCATION: 14816595

USID: 198300

SITE INFORMATION

SAN RAMON, CA 94583

LOS ALTOS, CA 94022

CODE COMPLIANCE

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

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

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

HANDICAP REQUIREMENTS

6. 2016 CALIFORNIA FIRE CODE

7. LOCAL BUILDING CODES

9. ANSI/EIA-TIA-222-G

8. CITY/COUNTY ORDINANCES

APPLICANT: AT#T MOBILITY 5001 EXECUTIVE PARKWAY

SURESITE

36 EXECUTIVE PARK, SUITE 210 IRVINE, CA 92614

AGENT:

ADJCT TO 167-21-034 SITE ADDRESS: 791 LOS ALTOS AVE

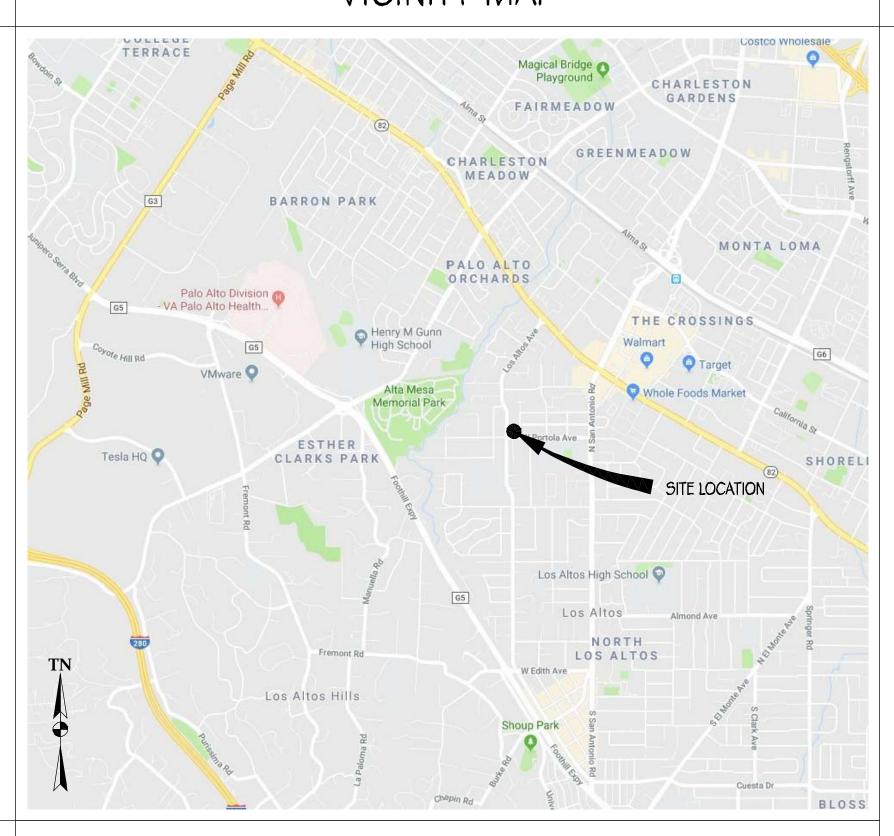
COUNTY: SANTA CLARA

37° 23' 48.39" N (37.396775) NAD 83 LATITUDE:

LONGITUDE: 122° 07' 16.43" W (-122.121231) NAD 83

GROUND ELEVATION: ±99.9' AM5L ZONING: **PUBLIC ROW** ZONING JURISDICTION: LOS ALTOS PG¢E SAP ID: 100508715 STREET CLASSIFICATION: LOCAL COLLECTOR

VICINITY MAP



DRIVING DIRECTIONS

500 I EXECUTIVE PARKWAY, SAN RAMON, CA 94583

1.	TILAD NONTILAST ON DISTION DE TOWARD SUNSET DE	206	11
2.	TURN RIGHT ONTO SUNSET DR	Q.I	MI
3.	USE THE MIDDLE LANE TO TURN RIGHT ONTO BOLLING CANYON RD	0.3	MI
4.	USE THE RIGHT LANE TO MERGE ONTO 1-680 S VIA THE RAMP TO SAN JOSE	0.3	Ml
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/STATE ROUTE 262 TOWARD I-880	0.2	MI
8.	KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION LVD W MERGE ONTO CA-262	0.3	MI
9.	MERGE ONTO CA-262 S/MISSION BLVD	0.6	MI
10.	USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD 1-880 S/SAN JOSE	0.9	MI
11.	MERGE ONTO 1-880 S	3.1	MI
12.	USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW	0,9	MI

TURN RIGHT ONTO E PORTOLA AVE

ESTIMATED TIME: 48 MINS ESTIMATED DISTANCE: 40 MI

PROJECT TEAM

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

AGENT:

SURESITE

CHRIS JOHNSON 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:

- . 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-4415 \$ (1) RRUS-11 W/ PSU UNITS, (2) DIPLEXERS, \$ (1) KMW FX-OM2L10H2-O6T 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

TITLE SHEET

GENERAL NOTES, LEGEND, & ABBREVIATIONS

SITE PLAN A-1

EQUIPMENT PLAN & ANTENNA PLANS

ELEVATIONS ELEVATIONS DETAILS

DETAILS

SINGLE-LINE DIAGRAM & DETAILS

GROUNDING DIAGRAMS TRAFFIC CONTROL PLAN

> DESCRIPTION 06/13/18

CD 90% CD 100% 07/25/19 DRAWN BY: T. JONES CHECKED BY: T. DiCARLO APPROVED BY: B. McCOMB 07/25/19

C 69891

CRAN RSFR LOSAO 06

791 LOS ALTOS AVE

LOS ALTOS, CA 94022

ISSUE STATUS

at&t

AT∉T MOBILITY 500 I EXECUTIVE PARKWAY SAN RAMON, CA 94583

TITLE SHEET

SHEET TITLE:

SHEET NUMBER

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

791 LOS ALTOS AVE, LOS ALTOS, CA 94022

	HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR	256	FT
2.	TURN RIGHT ONTO SUNSET DR	Q.I	M
3.	USE THE MIDDLE LANE TO TURN RIGHT ONTO BOLLING CANYON RD	0.3	M
4.	USE THE RIGHT LANE TO MERGE ONTO 1-680 S VIA THE RAMP TO SAN JOSE	0.3	M
5.	MERGE ONTO I-680 5	3.9	M
6.	CONTINUE STRAIGHT TO STAY ON I-680 S	17.5	M
7.	TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-880	0.2	M
8.	KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION LVD W MERGE ONTO CA-262	0.3	M
9.	MERGE ONTO CA-262 S/MISSION BLVD	0.6	M
0.	USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD I-880 S/SAN JOSE	0.9	M
1.	MERGE ONTO I-880 S	3.1	M
2.	USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW	0.9	M
3.	CONTINUE ONTO CA-237 W	8.4	M
4.	KEEP LEFT TO CONTINUE ON CA-237 W/SOUTHBAY FWY	0.5	M
5.	TURN RIGHT ONTO EL CAMINO REAL	2.3	M
-	TURN LEFT ONTO JORDAN AVE	0.2	M
7	TURN RIGHT ONTO E PORTOLA AVE	0.6	M

0.6 END AT: 791 LOS ALTOS AVE, LOS ALTOS, CA 94022

"CALL BEFORE YOU DIG" 811/800-227-2600

At all services & grounding trenches, provide

NATIONWIDE UNDERGROUND SERVICE ALERT

"WARNING" tape at 12" below grade.

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



GENERAL CONSTRUCTION NOTES

- 1. 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.
- 2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 3. 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.
- 4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 5. 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.
- 6. 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 CARJOUS 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.
- 7. 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.
- 8. 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 LITILITIES, 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 PREFORMED 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 (QSHA) REQUIREMENTS.
- 14. INCLUDE MISC ITEMS PER AT AT WIRELESS SPECIFICATIONS.

SYMBOLS LEGEND

- 15. ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHTUDOWN SIGNAGE) 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.
- 16, FONDATED RF WAC MARNING 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.

GROUT OR PLASTER

(E) BRICK

(E) MASONRY

CONCRETE

EARTH

PLYWOOD

SAND

STEEL

CENTERLINE

MATCH LINE

WORK POINT

WOOD CONT.

WOOD BLOCKING

PROPERTY/LEASE LINE

GROUND CONDUCTOR

OVERHEAD SERVICE

CHAIN LINK FENCING

OVERHEAD TELEPHONE/OVERHEAD

OVERHEAD TELEPHONE LINE

Overhead power line

POWER RUN

——OHT/OHP——

——— OHT ———

—— P ——

—— C□AX —— COAXIAL CABLE

- 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.

NEW ANTENNA

GROUND ROD

EXISTING ANTENNA

GROUND BUSS BAR

MECHANICAL GRND, CONN.

GROUND ACCESS WELL

ELECTRIC BOX

TELEPHONE BOX

FND. MONUMENT

SPOT ELEVATION

GRID REFERENCE

DETAIL REFERENCE

ELEVATION REFERENCE

SECTION REFERENCE

SET POINT

REVISION

LIGHT POLE

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 SAPETY 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 TI 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 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
 - JEEE 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
- ANY AND ALL OTHER LOCAL \$ STATE LAWS AND REGULATIONS

------ T ------ TELCO RUN

----- G ----- GROUNDING CONDUCTOR

——— — — GROUNDING CONDUCTOR

— — CONDUIT UNDERGROUND

FUSE, SIZE AND TYPE AS INDICATED.

NEMA 3R ENCLOSURE

#WSW232T

ENCLOSURE, SQ D CATALOG NO. H222NRB

SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R

MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE,

LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W,

SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG

LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/95W,

LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL

EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG

LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL

5/8" X 10'-0", CU. GND ROD 18" MIN. BELOW GRADE,

LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336

EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING,

MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307

OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121

W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB

COMBINATION, EXIT SIGN & EMERGENCY LIGHTING,

LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG

HUBBELL LIGHTING CATALOG #PRC

#HEG-50-2-R91

#BRH-100-06-1

LIGHTING CATALOG #QL-505

SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG

TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

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.

5/8" X 10'-0" ,CU. GND ROD IN TEST WELL 18" MIN.

BELOW GRADE.

CHEMICAL GROUND ROD (XIT GROUND ROD)

CADWELD CONNECTION

MECHANICAL CONNECTION

HALO GROUND CONNECTION

CIRCUIT BREAKER

UTILITY METER BASE

STEP-DOWN TRANSFORMER

RECEPTACLE, 2P-3W-125V-15A, DUPLEX,

TOGGLE SWITCH, IP-125V-15A,

HUBBELL CATALOG #HBL 1201CN

(N) POLE MOUNTED XFMER

(E) POLE MOUNTED XFMR

(N) PAD MOUNTED XFMER

(E) PAD MOUNTED XFMER

TOGGLE SWITCH, IP-120V-15A, "WP"

IONIZATION SMOKE DETECTOR WALARM HORN \$

AUXILIARY CONTACT, 120 VAC, GENTEX PART NO.

GROUND TYPE, HUBBELL CATALOG #5362

TRANSFORMER

POLE

GENERAL TRENCHING NOTES

- MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM I " 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 18" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BALANCE
- WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE RING.

GENERAL GROUNDING NOTES

- 5/8" × 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 PBMD OR STRONG BOX.
- WOOD MOULDING, STAPLED EVERY 3' AND AT EACH END, UNLESS OTHERWISE NOTED.

GENERAL CONDUIT NOTES

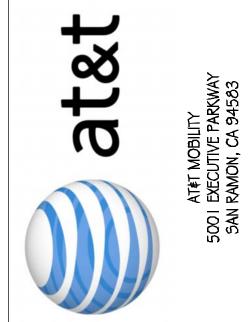
- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE.
- 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
- CONTRACTOR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

TYPICAL R.O.W. POLE CONSTRUCTION NOTES

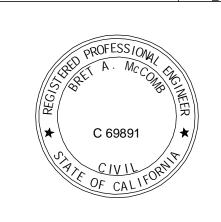
- CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE.
- ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
- NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2"
- ALL HOLES IN POLE LEFT FROM REARRANGEMENT OF CLIMBERS TO BE FILLED.
- 90° SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST TRANSITION ON THE 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 CAB;LE 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	нт	HEIGHT
AB	ANCHOR BOLT	ICGB	ISOLATED COPPER GROUND BUSS
ABV ACCA	ABOVE ANTENNA CABLE COVER ASSEMBLY	IN, (") Int	INCH(ES) INTERIOR
ADD'L	ADDITIONAL	LB, (#)	POUND(5)
aff afg	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	LAG	LAG BOLTS
AIC AIC	AMPERE INTERRUPTING CAPACITY	LF LTH	LINEAR FEET (FOOT) LENGTH
ALUM	ALUMINUM	L	LONG(ITUDINÁL)
alt ant	ALTERNATE ANTENNA	LPS	LOW PRESSURE SODIUM
APPROX	APPROXIMATE(LY)	mas Max	MASONRY MAXIMUM
ARCH	ARCHITECT(URAL)	MB	MACHINE BOLT
at Awg	AMPERE TRIP AMERICAN WIRE GAUGE	MECH	MECHANICAL
BATT	BATTERY	MFR Min	Manufacturer Minimum
BD	BOARD	MISC	MISCELLANEOUS
BLDG BLK	BUILDING BLOCK	MLO	MAIN LUGS ONLY
BLKG	BLOCKING	MTD MTG	MOUNTED MOUNTING
BM	BEAM BOUNDADY MANUAC	MTL	METAL
BN B R	BOUNDARY NAILING BRANCH	MTS	MANUAL TRANSFER SWITCH
BRKR	BREAKER	N (N)	NEUTRAL NEW
BTCW	BARE TINNED COPPER WIRE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BTS BOF	BASE TRANSMISSION SYSTEM BOTTOM OF POOTING	NO, (#)	NUMBER NOT TO SCALE
B/U	BACK-UP CABINET	nts Oh	NOT TO SCALE OVERHEAD
C	CONDUIT	OC	ON CENTER
CAB CANT	CABINET CANTILEVER(ED)	OPNG	OPENING
CB	CIRCUIT BREAKER	P P/C	POLE PRECAST CONCRETE
CIP	CAST IN PLACE	PCS	PERSONAL COMMUNICATION SERVICES
CKT CLG	CIRCUIT CEILING	PH	PHASE
CLR	CLEAR	PLY PNLBD	PLYWOOD PANELBOARD
COL	COLUMN	PPC	POWER PROTECTION CABINET
CONC CONN	CONCRETE CONNECTION(OR)	PRC	PRIMARY RADIO CABINET
CONST	CONSTRUCTION	PRI PSF	PRIMARY POUNDS PER SQUARE FOOT
CONT	CONTINUOUS	PSI	POUNDS PER SQUARE INCH
d DBL	PENNY (NAILS) Double	PT	PRESSURE TREATED
DEM	DEMAND	PWR QTY	POWER (CABINET) QUANTITY
DEPT	DEPARTMENT	RAD, (R)	RADIUS
D f Dià	DOUGLAS FIR DIAMETER	RCPT	RECEPTACLE
DIAG	DIAGONAL	ref Reinf	REFERENCE REINFORCEMENT(ING)
DIM	DIMENSION	REQ'D	REQUIRED
DWG	DRAWING(5) DOWEL(5)	RG5	RIGID GALVANIZED STEEL
DWL EA	EACH	SAF SCH	SAPETY SCHEDULE
EGR	EMERGENCY GENERATOR RECEPTACLE	SDBC	SOFT DRAWN BARE COPPER
EL ELEC	ELEVATION ELECTRICAL	SEC	SECONDARY
ELEV	ELEVATOR	SHT SIM	SHEET SIMILAR
EMT	ELECTRICAL METALLIC TUBING	SN	SOLID NEUTRAL
en Encl	EDGE NAIL ENCLOSURE	SPEC	SPECIFICATION(S)
ENG	ENGINEER	SQ SS	Square Stainless Steel
EQ	EQUAL	STD	STANDARD
EXST, (E) EXP	EXISTING EXPANSION	STL	STEEL
EXT	EXTERIOR	STRUC SURF	STRUCTURAL SURPACE
FAB	FABRICATION(OR)	SW	SWITCH
FAC F/A	FACTOR FIRE ALARM	TEL	TELEPHONE
f f	FINISH FLOOR	temp Thk	TEMPORARY THICK(NESS)
FG	FINISH GRADE	TN	TOE NAIL
FIN FLR	FINISH(ED) FLOOR	TOA	TOP OF ANTENNA
FLUOR	FLUORESCENT	TOC TOF	TOP OF CURB TOP OF FOUNDATION
FDN	FOUNDATION FACE OF COUCRETE	TOP	TOP OF PLATE (PARAPET)
FOC FOM	FACE OF CONCRETE FACE OF MASONRY	T0 3	TOP OF STEEL
FOS	FACE OF STUD	TOW TYP	TOP OF WALL TYPICAL
FOW	FACE OF WALL	ÜĞ	UNDER GROUND
F5 FT, (f)	FINISH SURFACE FOOT (FEET)	UL	UNDERWRITERS LABORATORY INC.
PTG	FOOTING	UNO V	UNLESS NOTED OTHERWISE VOLT
fυ	FUSE	VAC	VOLT ALTERNATING CURRENT
G GR	Ground Growth (Cabinet)	VIF	VERIFY IN FIELD
GA	GAUGE	W WD	WATT OR WIRE WIDE(WIDTH)
GEN	GENERATOR	W/	WITH
GALV GFCI	GALVANIZE(D) GROUND FAULT CIRCUIT INTERRUPTER	W/O	WITHOUT
GLB	GLUE LAMINATED BEAM	WD WP	WOOD WEATHERPROOF
GND	GROUND	WP WT	WEIGHT
GPS GRND	GLOBAL POSITIONING SYSTEM GROUND	XFER	TRANSFER
HDBC	HARD DRAWN COPPER WIRE	XPMR VIPE	TRANSFORMER CROSS-LINK POLYETHYLENE
HDG	HOT-DIP GALVANIZE(D)	XLPE C	CENTERLINE
HDR HGR	HEADER HANGER	E.	PLATE
HPS	HIGH PRESSURE SODIUM		







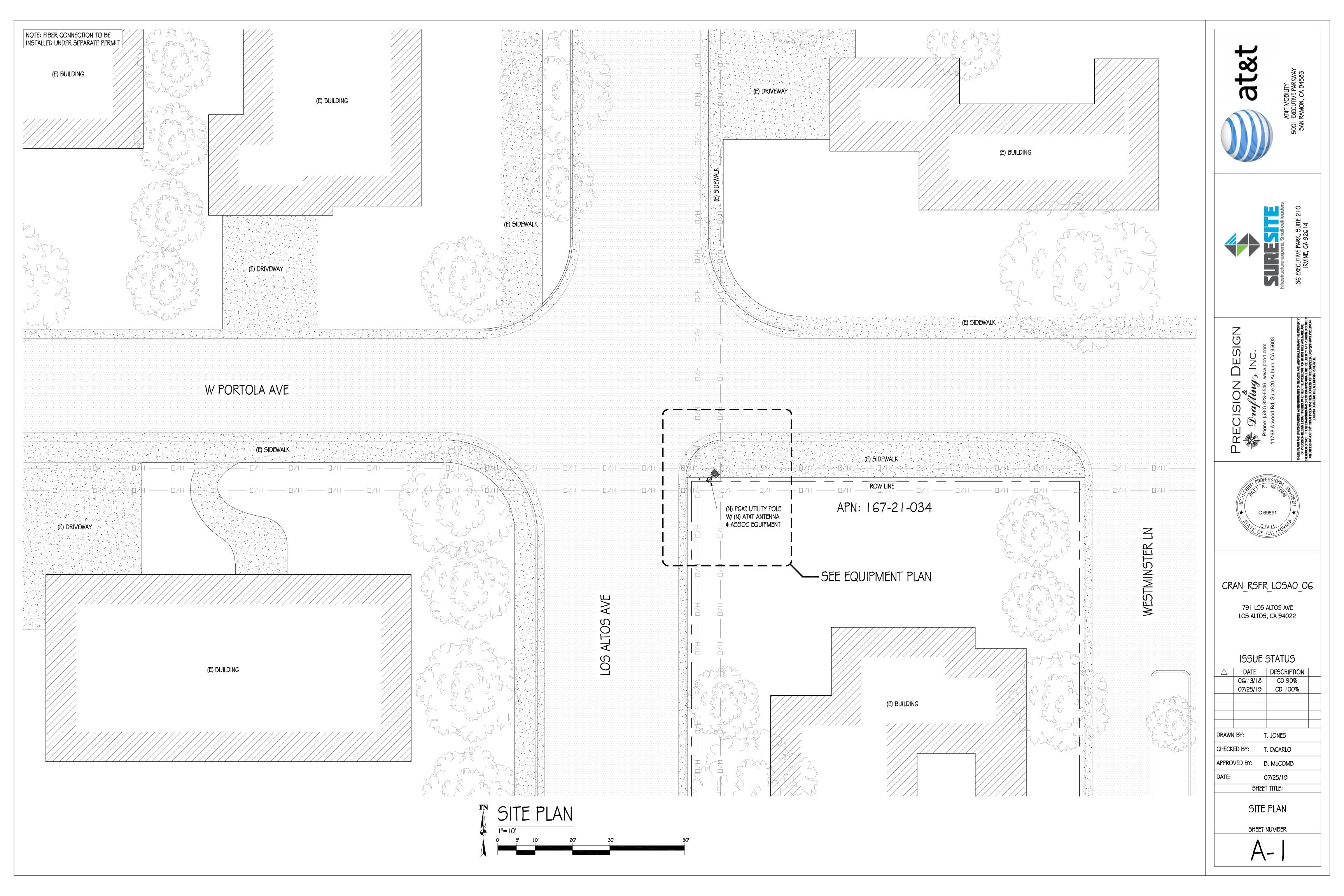
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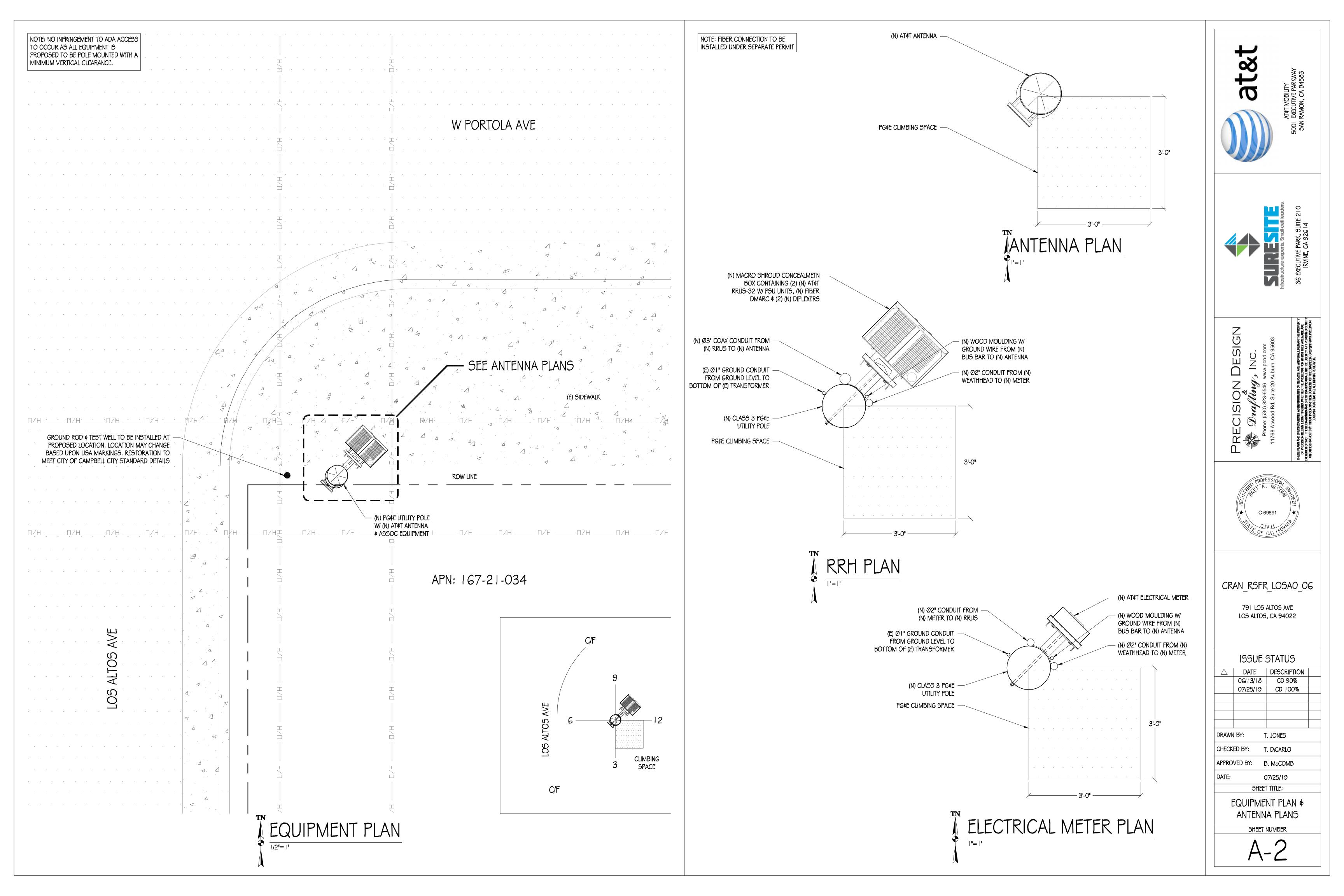
791 LOS ALTOS AVE LO5 ALTO5, CA 94022

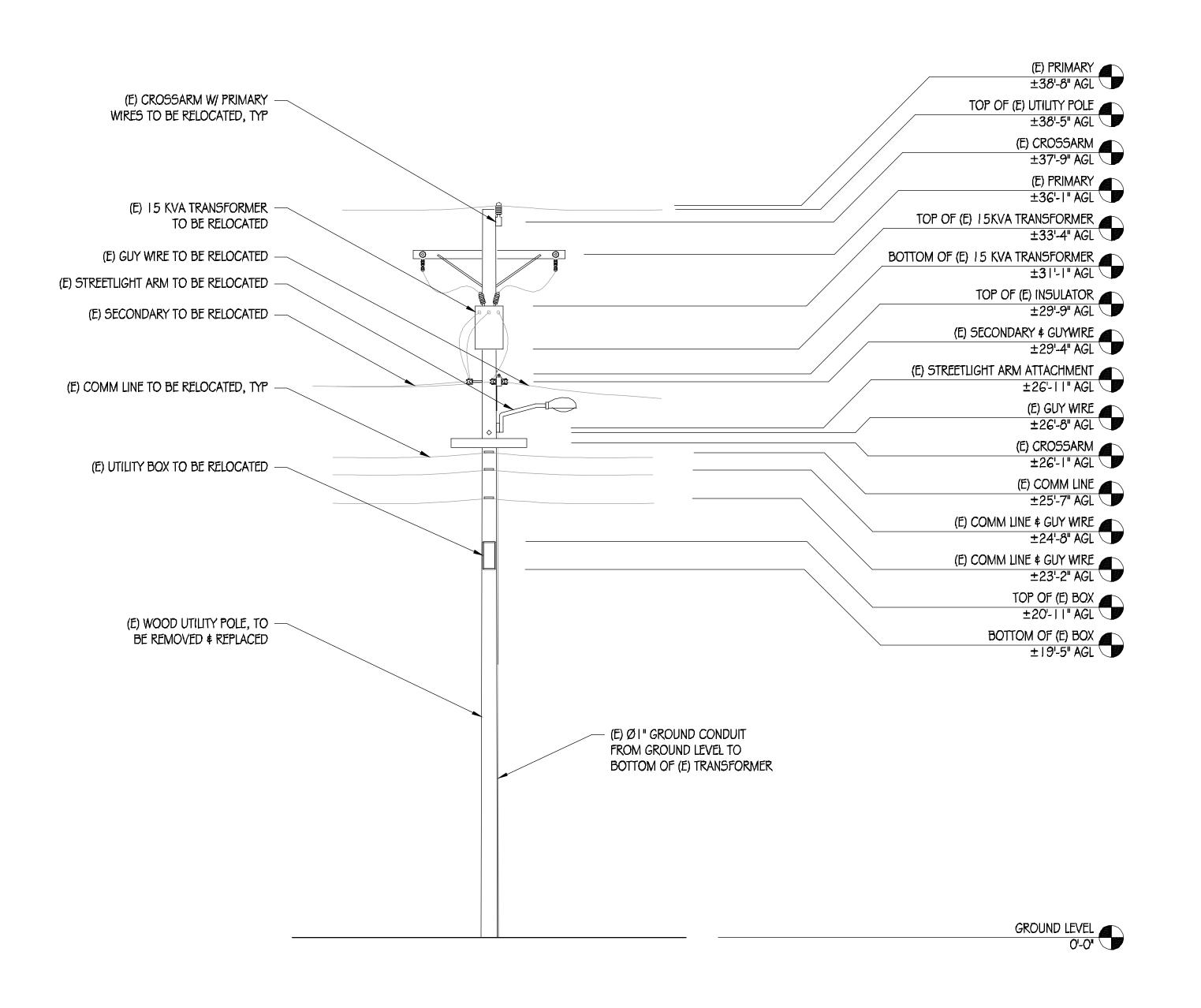
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PRO	VED BY:	В. МсСОМВ						
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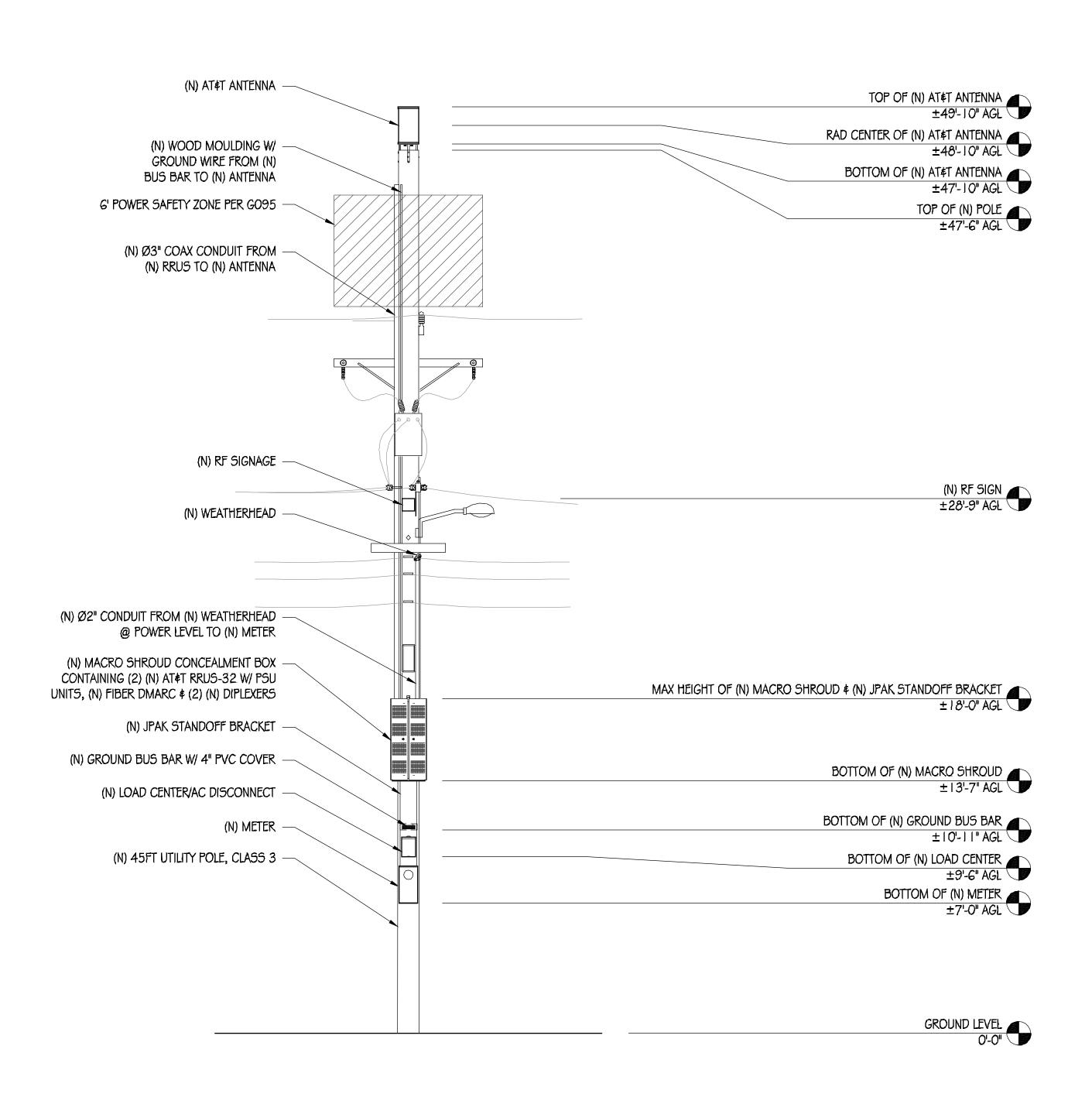
GENERAL NOTES, LEGEND, **# ABBREVIATIONS**

SHEET NUMBER









EXISTING NORTH ELEVATION

NEW NORTH ELEVATION

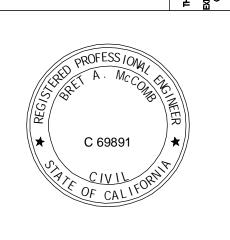
atet MOBILITY
5001 EXECUTIVE PARKWAY
5AN RAMON, CA 94583



TRECISION DESIGN

and find, INC.

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11768 Atwood Rd, Suite 20 Auburn, CA 95603



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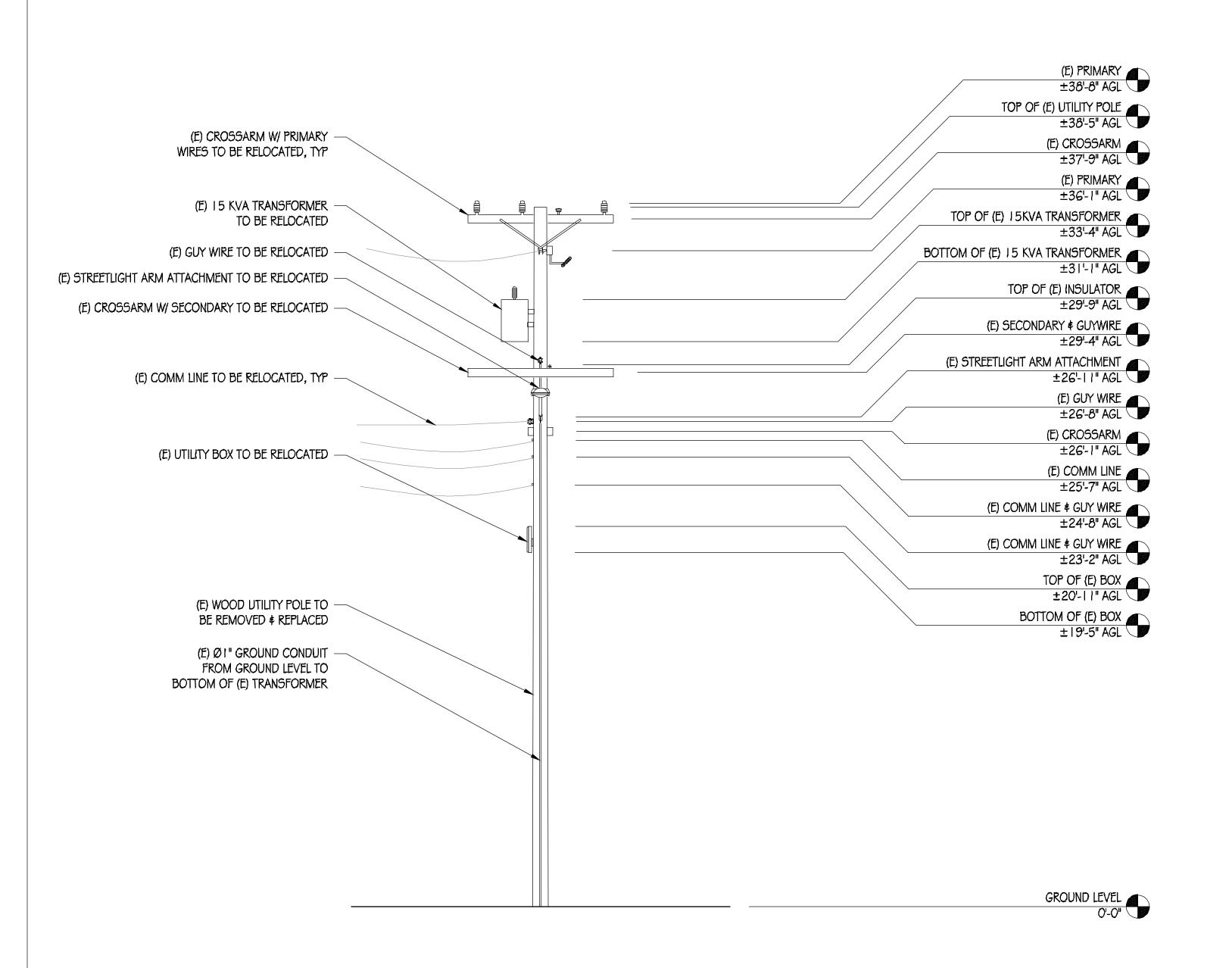
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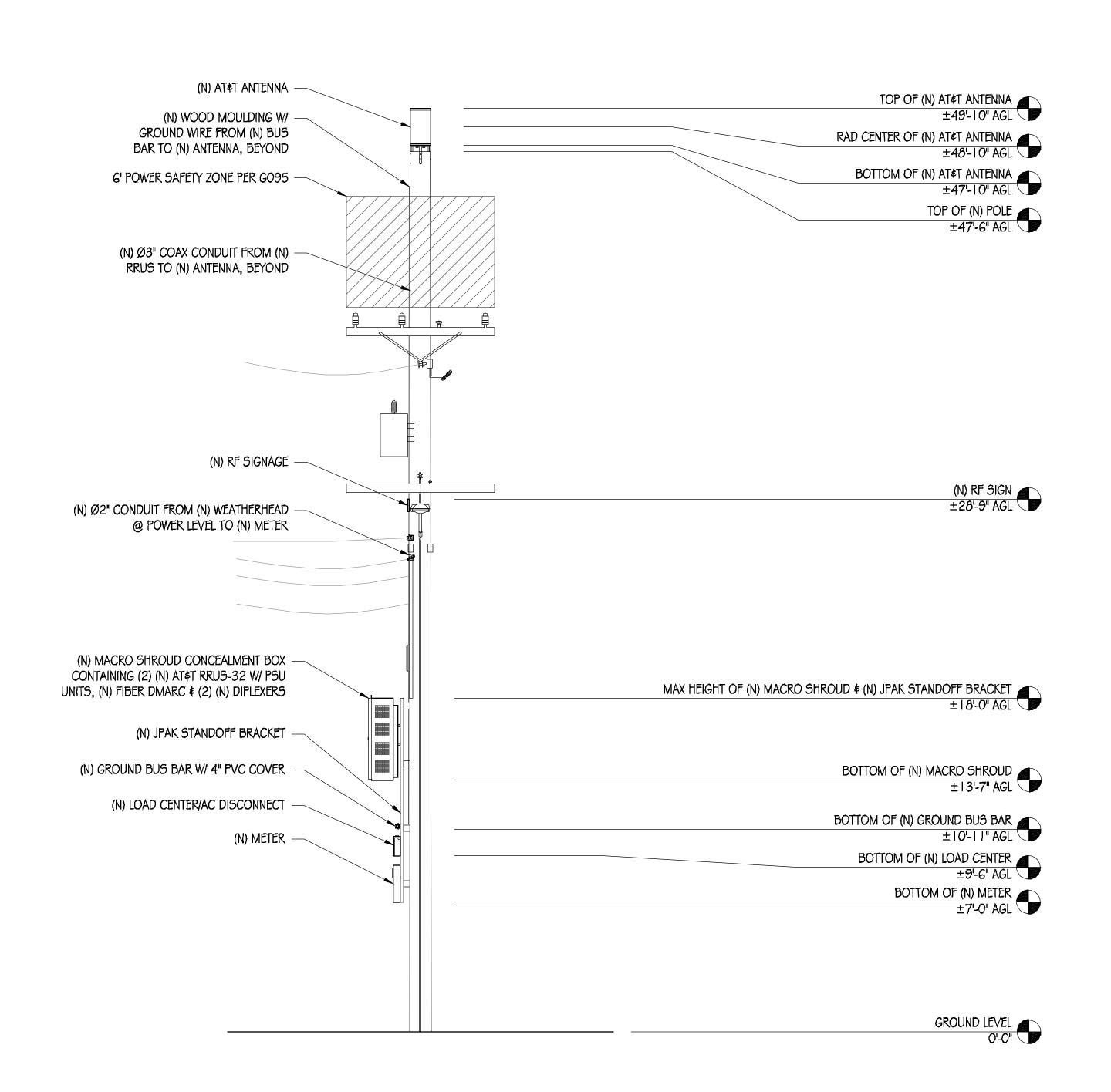
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CHECK	ED BY:	1	. DICARLO	
APPRO	VED BY:	E	В. МсСОМВ	
DATE:		C	07/25/19	

ELEVATIONS

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EXISTING WEST ELEVATION

NEW WEST ELEVATION

| 1/4"=1'-0"





PRECISION DESIGN

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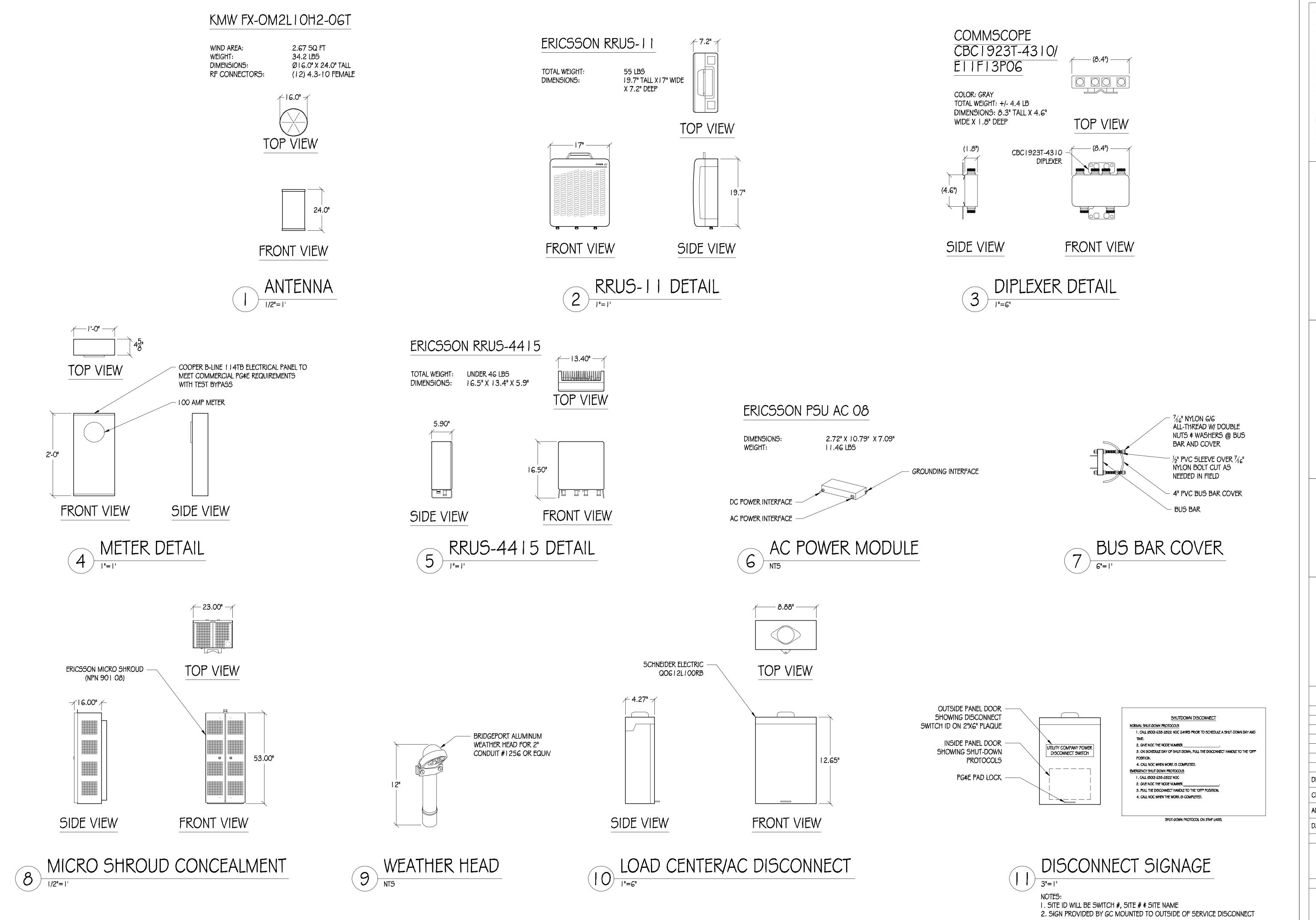
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APPROVED BY:		E	В. МсСОМВ			
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ELEVATIONS

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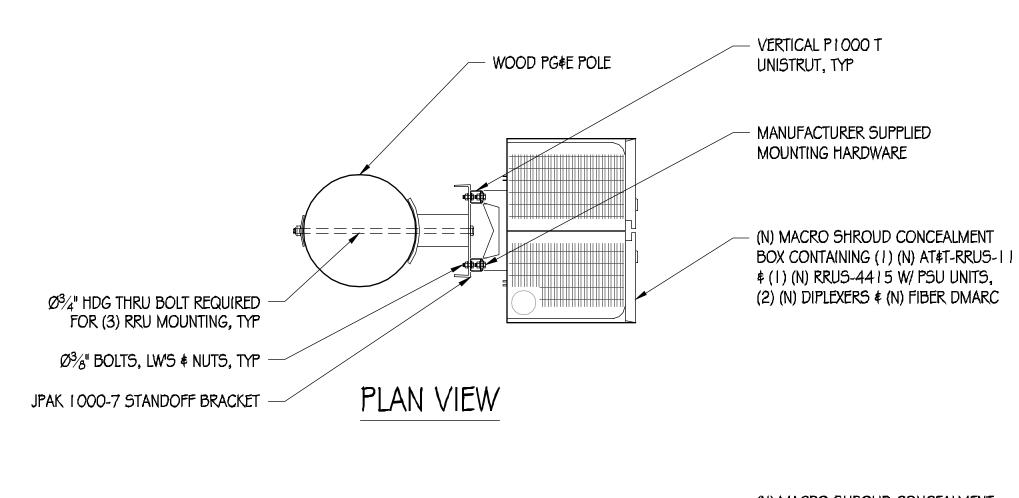
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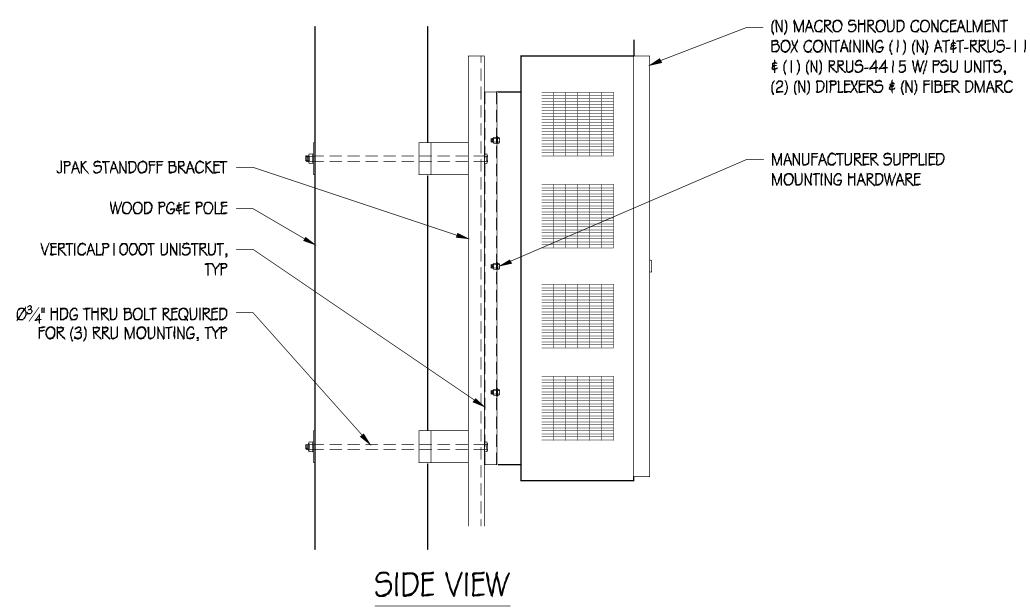
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DRAWN BY:	T. JONES	
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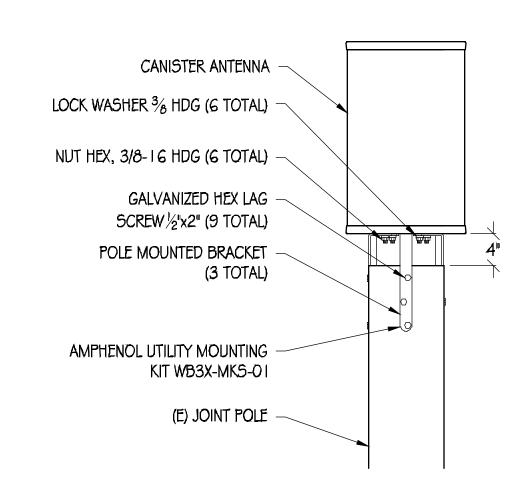
STRUCTURAL STEEL NOTES:

- 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.
- 2. 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.
- 3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC \$ AWS DI.I. 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.
- 4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- 5. 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.
- 6. THREADED RODS SHALL BE ASTM F593 CW 304/3 1 6 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, \$ SIZE OF BOLTS.
- 7. 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.
- 8. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A I 23 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.
- 9. 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.
- IO. AT ALL WEB STIFFENER PLATES LEAVE 3/4"Ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.





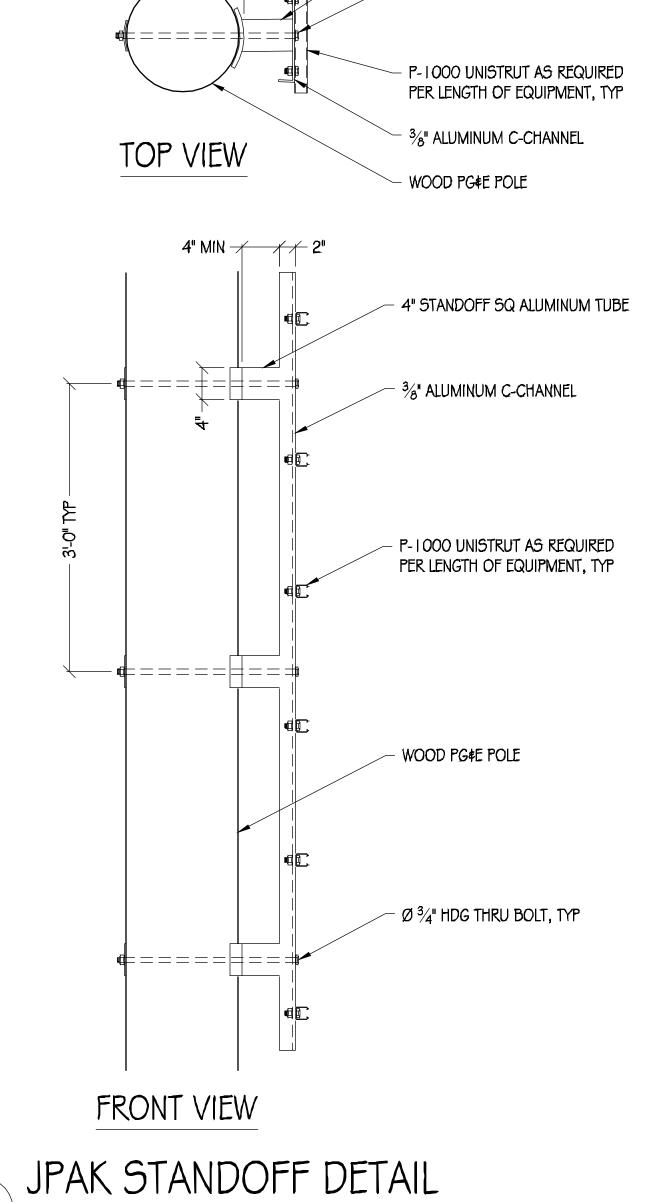


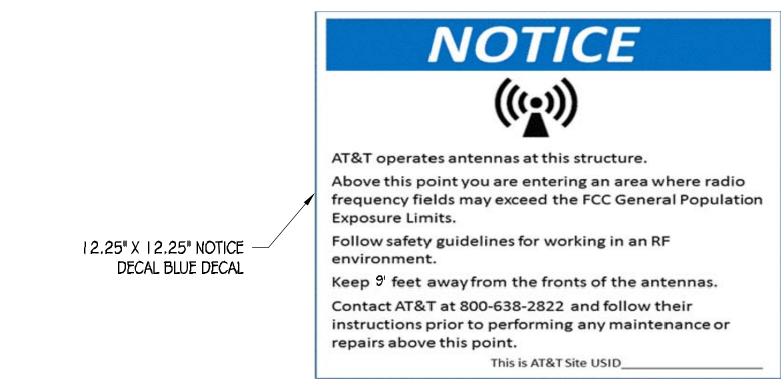


POLE-TOP ANTENNA MOUNT DETAIL

4" STANDOFF SQ ALUMINUM TUBE

Ø 3/4" HDG THRU BOLT, TYP

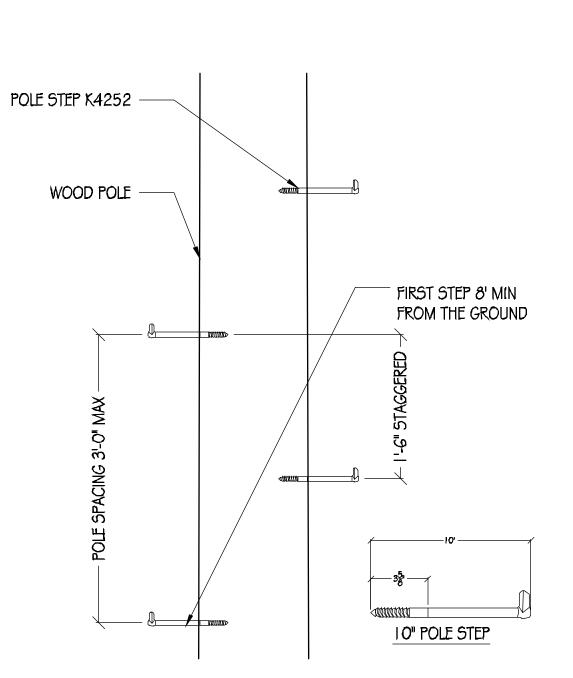


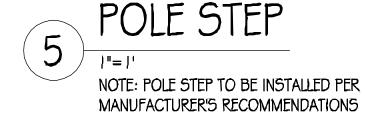


NOTICE SIGNAGE

NOTES:

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



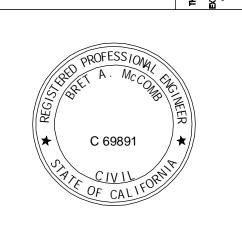






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SEPLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMANN THE PROPERTY OF PRECISION DESIGN & DRAFTING INC. WHETHER THE PROJECTS FOR WHICH THEY ARE MADE ARE



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791 LOS ALTOS AVE LOS ALTOS, CA 94022

ISSUE STATUS				
\triangle	DATE	DESCRIPTION		
	06/13/18	CD 90%		
	07/25/19	CD 100%		
DRAWN BY: T. JONES				
CHECKED BY: T. DICARLO				
APPROVED BY:		В. МсСОМВ		
DATE:		07/25/19		
SHEET TITLE:				

DETAILS
SHEET NUMBER

GENERAL ELECTRICAL NOTES:

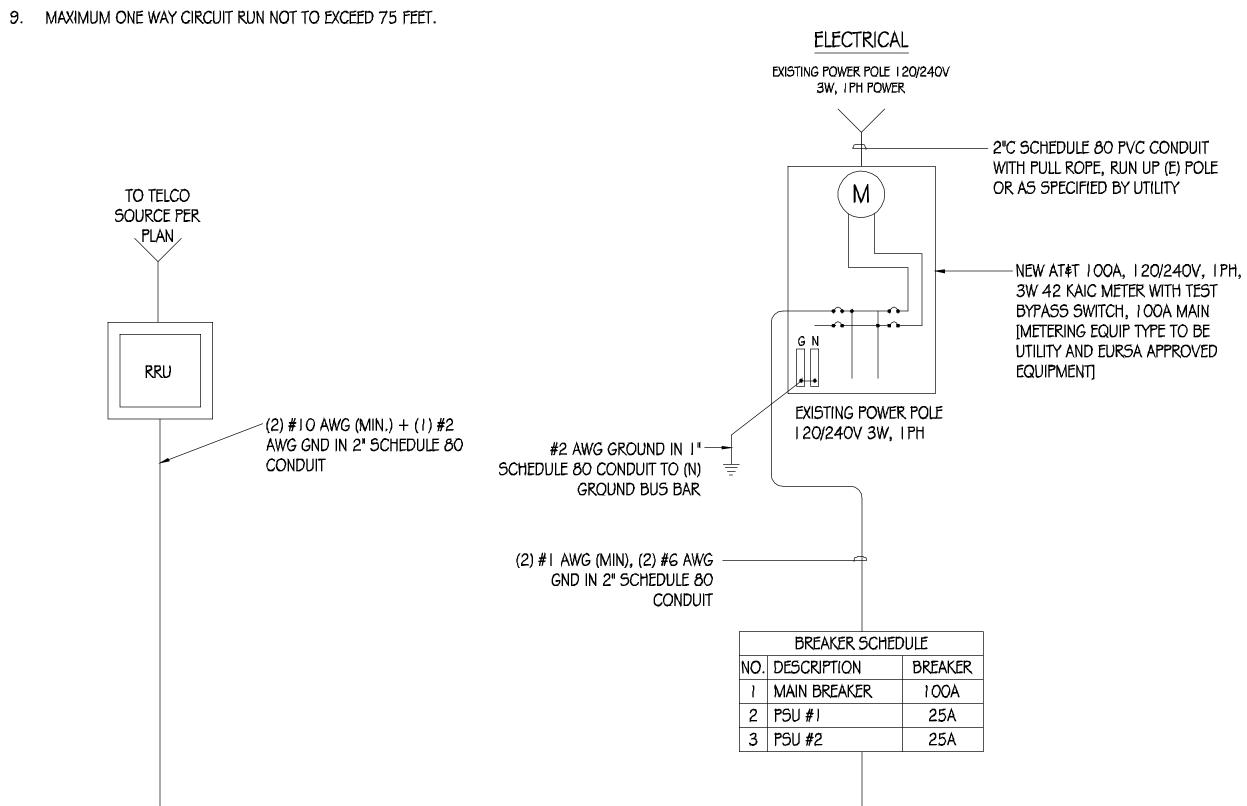
- PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
- 2. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE24, ALL OTHER APPLICABLE CODES 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.
- 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 "THWN" OR "TWN".
- 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, SYDUAL 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.

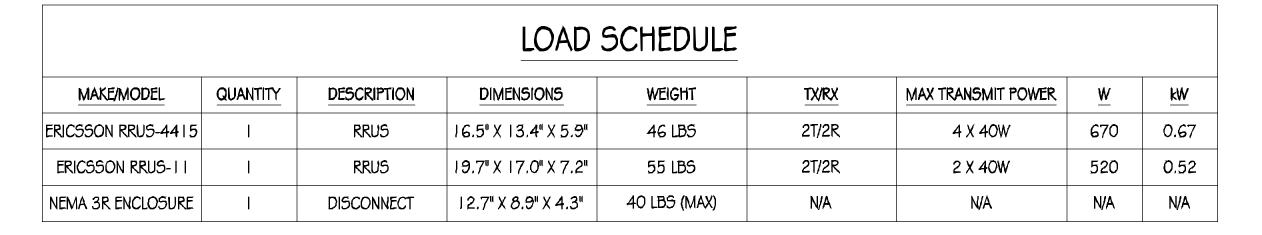
POWER AND TELCO NOTES:

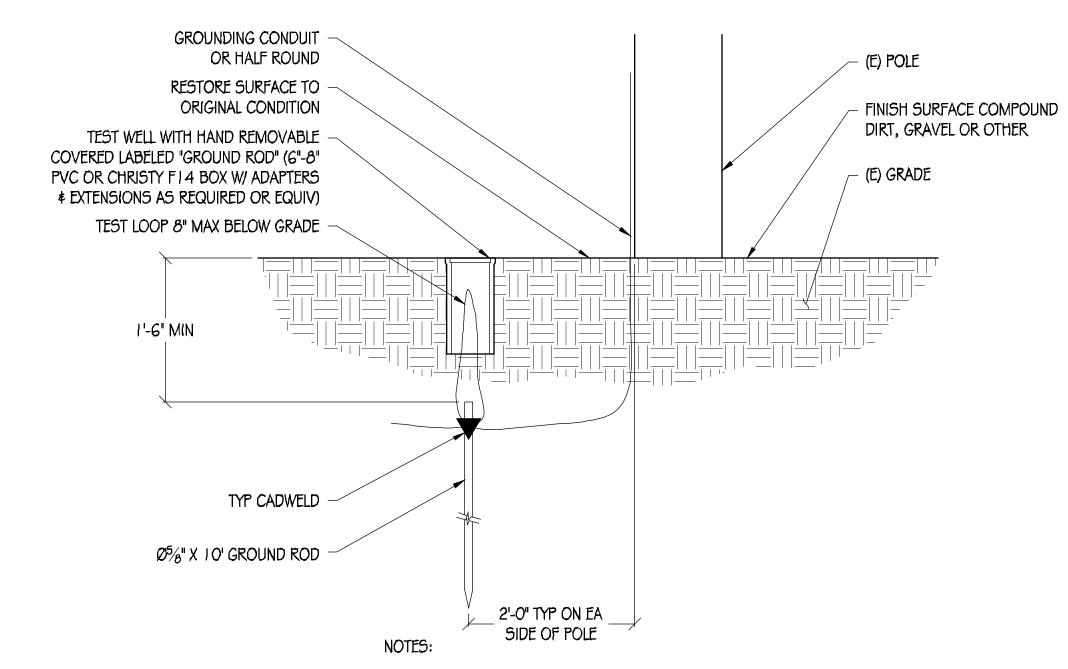
- POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.

SINGLE-LINE DIAGRAM

- FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.



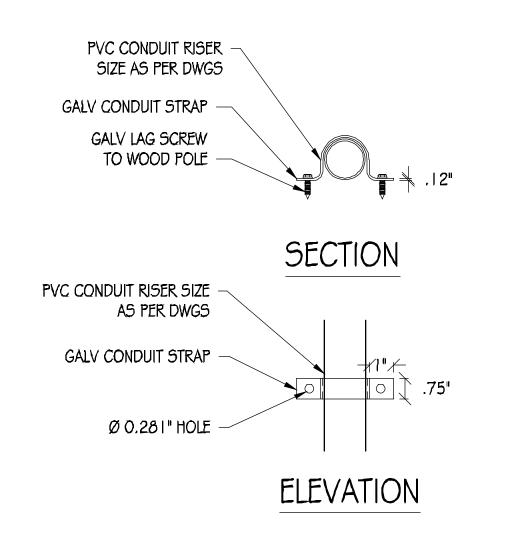




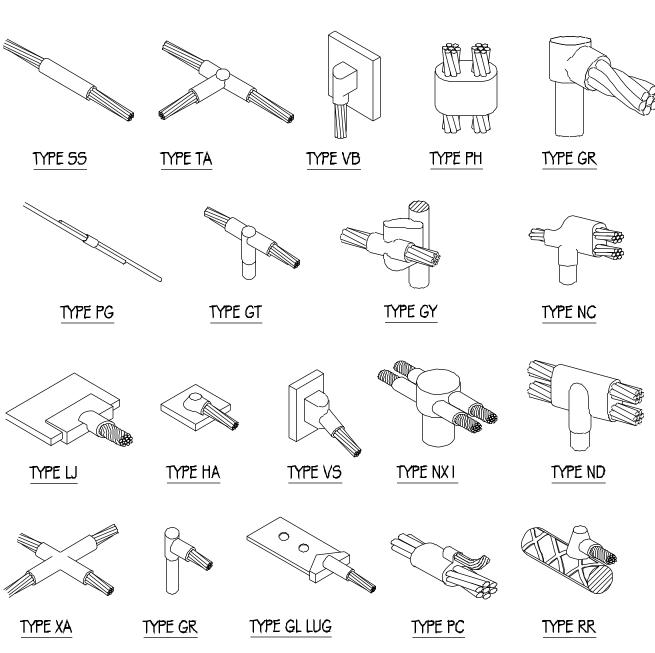
I. REMOVE & REPLACE SIDEWALK SECTION, RESTORATION TO MEET CITY STANDARD DETAILS

2. EXPOSED CONCRETE TO HAVE BROOM FINISH

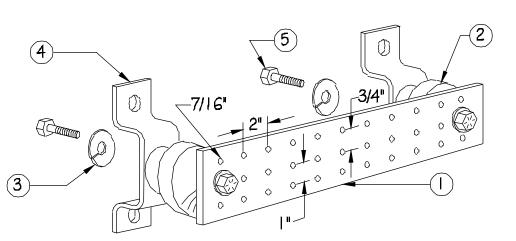
POLE GROUNDING DETAIL



CONDUIT RISER DETAIL



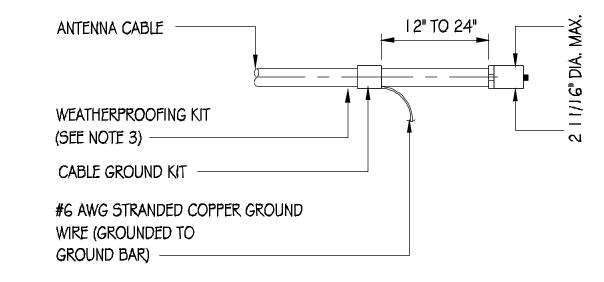
EXOTHERMIC WELD DETAILS



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 I" 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.





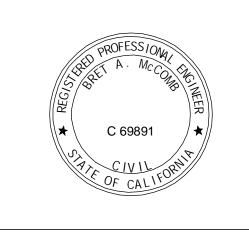
NOTES:

- I. 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.)









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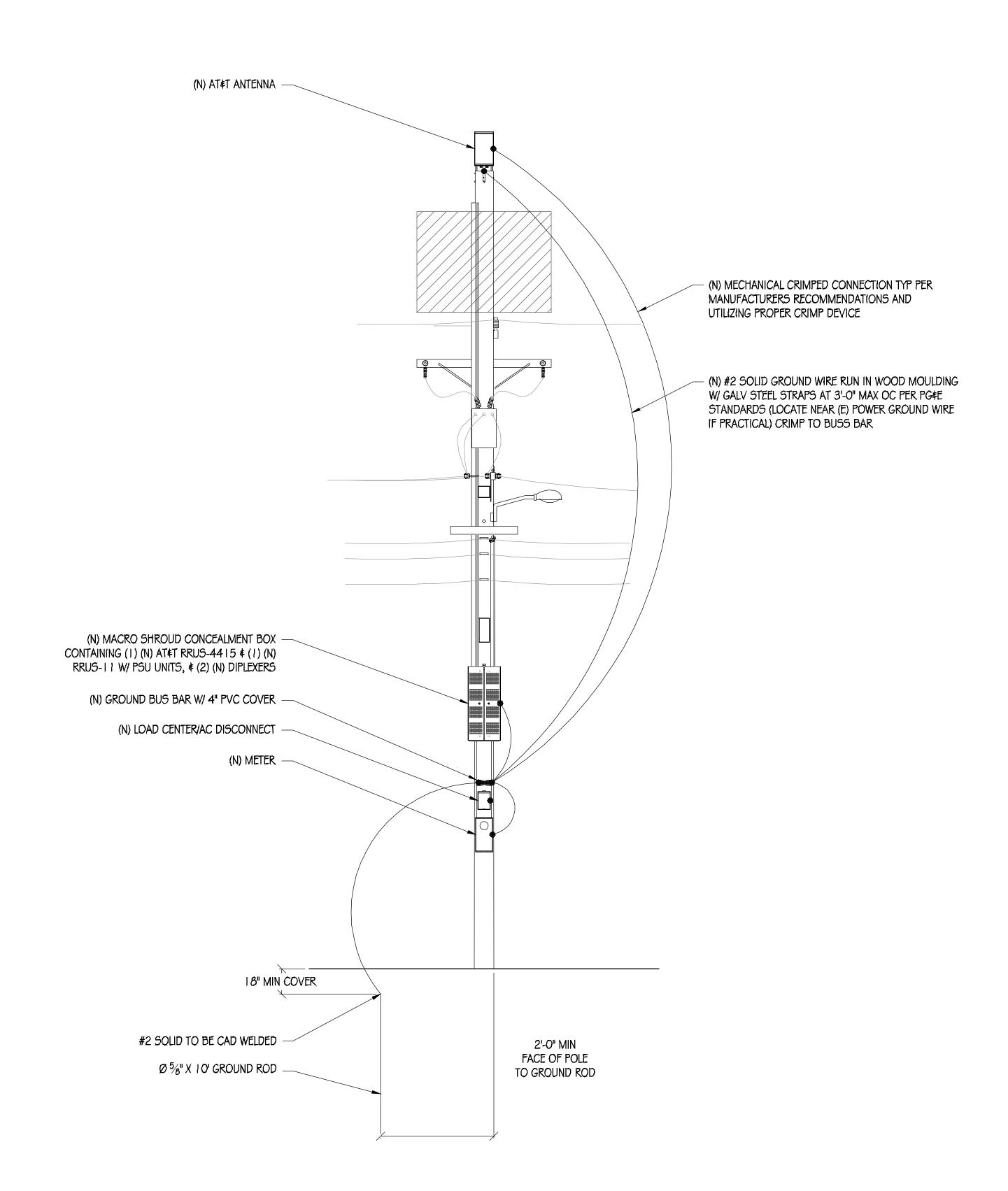
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ISSUE STATUS DESCRIPTION CD 90% 06/13/18 CD 100% 07/25/19 DRAWN BY: T. JONES CHECKED BY: T. DICARLO APPROVED BY: B. McCOMB DATE: 07/25/19 SHEET TITLE:

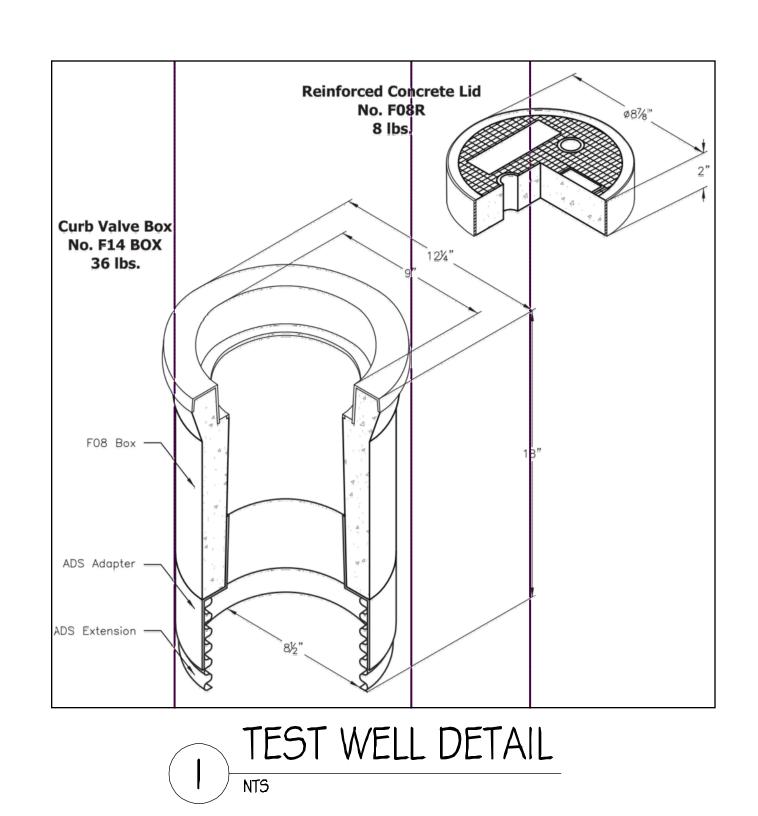
> DETAILS SHEET NUMBER

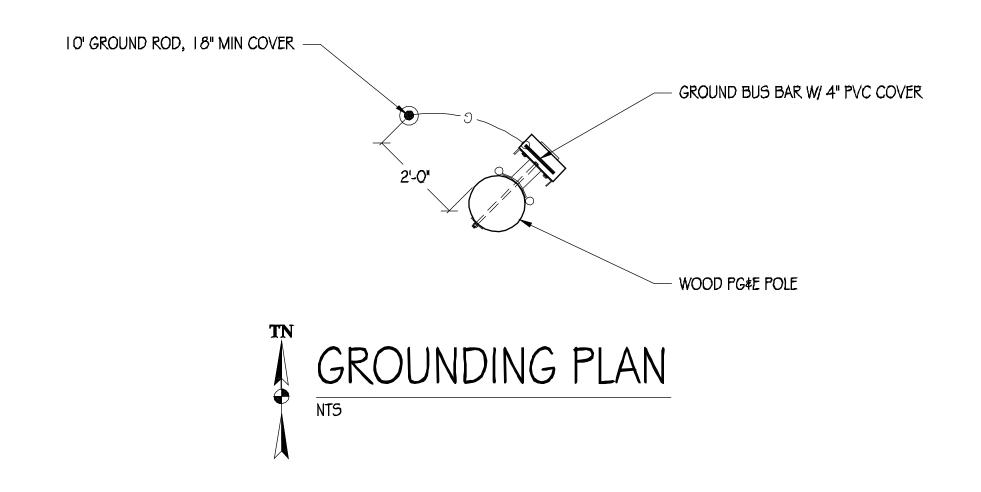
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SINGLE-LINE DIAGRAM \$



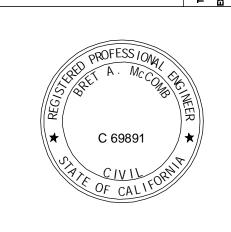
POLE GROUNDING DIAGRAM











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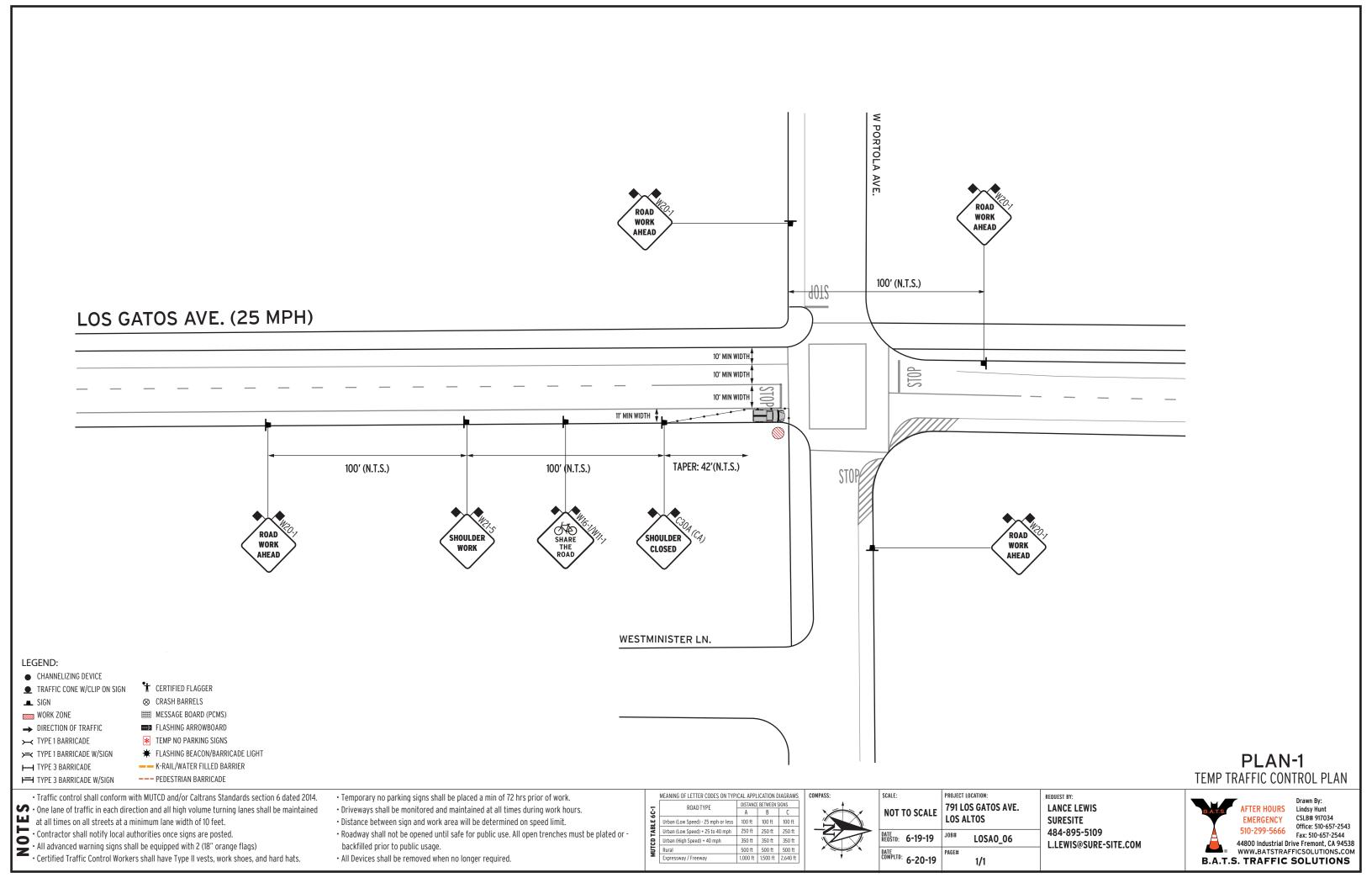
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APPROVI	ED BY:	E	В. МсСОМВ	
DATE:		C	07/25/19	
	SH	EE	r title:	

GROUNDING DIAGRAMS

SHEET NUMBER

F-2



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
The applicant is hereby given temporary permission to construct and maintain wireless communication systems at 791 Cos Alfos Aunul, 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.
- 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 Sure Site Consulting
Name/Title

Laura Meiners, Site Dev Agent
Company

T-30-19

CERTIFIED NOTIFICATION LIST AFFIDAVIT

CITY OF LOS ALTOS STATE OF CALIFORNIA COUNTY OF SANTA CLARA

I, <u>Robert Castro</u> , 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
Signature
June 21, 2019
Date the notices were mailed out
Location:
Public right of way near 791 Los Altos Avenue
37.3967610, -122.1212470

1 167-18-049 DAVE R & DIANE M BEATTY 826 CARMEL AVE LOS ALTOS CA 94022	2 167-18-050 SANTHOSH M & KALIA SHALINI SRINIVASAN 818 CARMEL AVE LOS ALTOS CA 94022	3 167-18-051 OANH H HANLEY 808 CARMEL AVE LOS ALTOS CA 94022
4 167-18-052 YU & LIU TIANYUN CHANG 800 CARMEL AVE LOS ALTOS CA 94022	5 167-18-067 BRYAN & ZHAO LING LI 829 SANTA RITA AVE LOS ALTOS CA 94022	6 167-18-073 ROBERT M & JACOBS PEGGY RICHARDSON PO BOX 1075 MOUNTAIN VIEW CA 94042
6 167-18-073	7 167-18-080	7 167-18-080
OCCUPANT	AGU & WU YU DU	OCCUPANT
830 LOS ALTOS AVE	4681 BLUE RIDGE DR	315 W PORTOLA AVE
LOS ALTOS CA 94022	SAN JOSE CA 95129	LOS ALTOS CA 94022
8 167-18-081	9 167-18-082	10 167-18-085
GENE & HUI WENDY CHOY	BRENT M SAPIRO	MICHAEL C & CATHERINE H LIU
821 LOS ALTOS AVE	831 LOS ALTOS AVE	666 KINGSWOOD WAY
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
10 167-18-085	11 167-18-086	11 167-18-086
OCCUPANT	ZHIHAO & HU XIN ZHENG	OCCUPANT
345 W PORTOLA AVE	3305 POMERADO WAY	359 W PORTOLA AVE
LOS ALTOS CA 94022	SAN JOSE CA 95135	LOS ALTOS CA 94022
12 167-18-087	13 167-21-006	13 167-21-006
SETH PHILIP LESLIE	DROR & TESSEL MARIANNA SNEH	OCCUPANT
817 SANTA RITA AVE	2778 GASPAR CT	366 W PORTOLA AVE
LOS ALTOS CA 94022	PALO ALTO CA 94306	LOS ALTOS CA 94022
14 167-21-007	15 167-21-008	16 167-21-009
HAKIM & SHAHLA ALY	AJIT K & KISHORE ANITA VERMA	WUGANG & WU TIAN ZHAO
340 W PORTOLA AVE	780 LOS ALTOS AVE	772 LOS ALTOS AVE
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
17 167-21-019 IDEC SYSTEMS & CONTROLS CORP 1175 ELKO DR SUNNYVALE CA 94089	17 167-21-019 OCCUPANT 777 LOS ALTOS AVE LOS ALTOS CA 94022	18 167-21-023 JEFFREY A & HAY-KAUFMAN MARTHA KAUFMAN 280 W PORTOLA AVE LOS ALTOS CA 94022
19 167-21-034	20 167-21-046	21 167-21-047
MARK H & PATRICIA A GOODMAN	JAIN FAMILY TRUST	NANDA KISHORE
791 LOS ALTOS AVE	771 WESTMINSTER LN	781 WESTMINSTER LN
LOS ALTOS CA 94022	LOS ALTOS CA 94022	LOS ALTOS CA 94022
22 167-21-048 JOHN B & SANDRA A PARKES	IVAN TOEWS SURESITE CONSULTING 2033 GATEWAY PL 6TH FLR	CHRIS ELDRIDGE ERICSSON 6140 STONERIDGE MALL ROAD SUITE 350

2033 GATEWAY PL 6TH FLR

SAN JOSE CA 95110

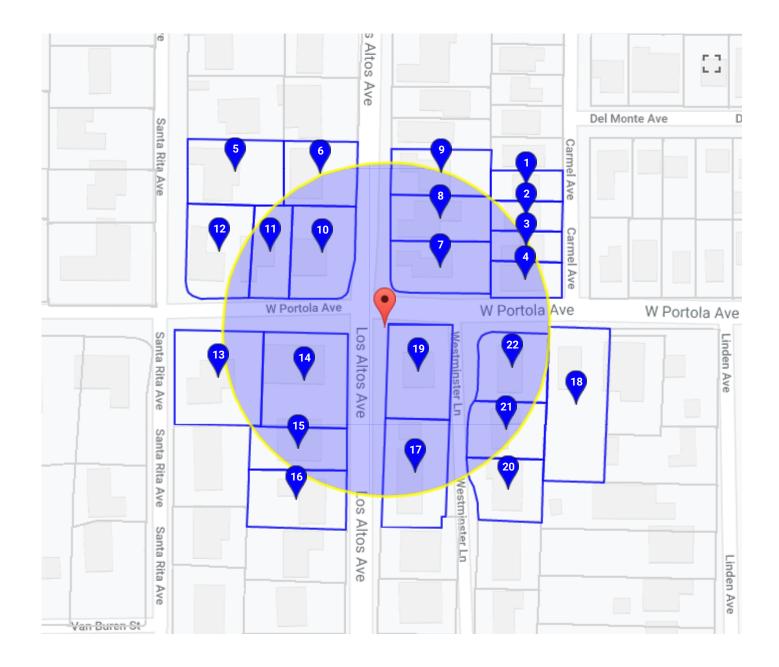
6140 STONERIDGE MALL ROAD SUITE 350

PLEASANTON CA 94588

791 WESTMINSTER LN

LOS ALTOS CA 94022

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!

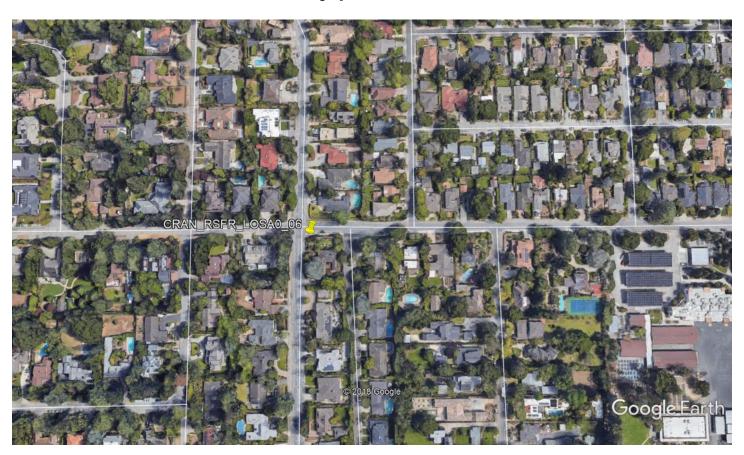
June 10, 2019

Dear Neighbor,

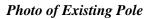
AT&T Mobility proposes to install a state-of-the-art wireless communication small cell node facility on existing wood utility pole located in the City of Los Altos public right-of-way near 791 LOS ALTOS AVENUE. The equipment to be initially installed includes one (1) antenna, two (2) radio units, and 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.

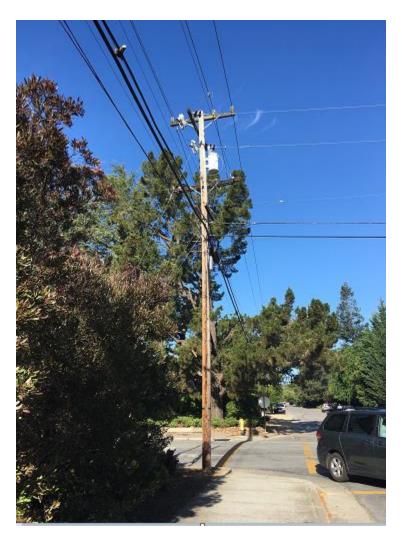
This proposed small cell node is part of a greater network that will provide and enhance current cutting edge and future AT&T wireless voice and data service to the surrounding area, improving wireless capabilities and public safety connectivity. Although experiences with wireless services vary based 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









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

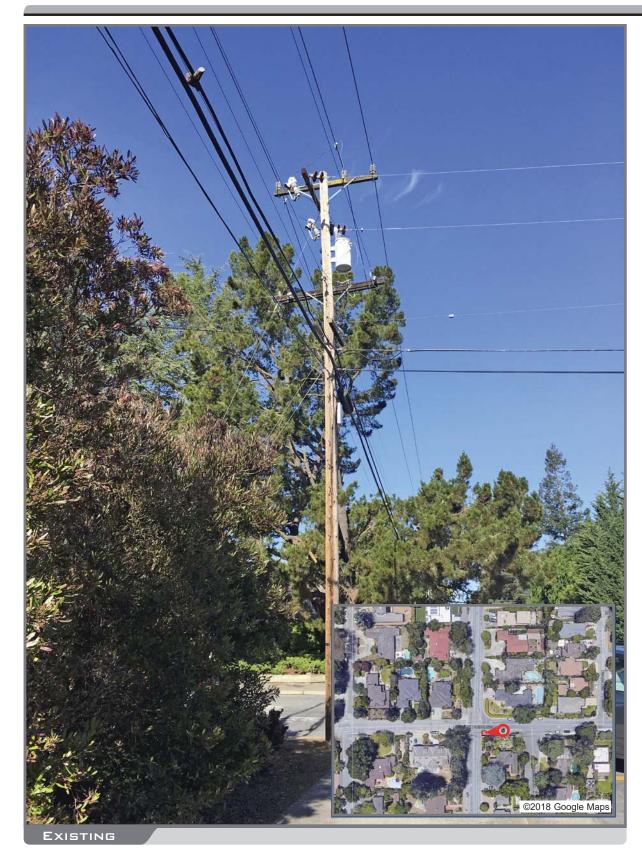


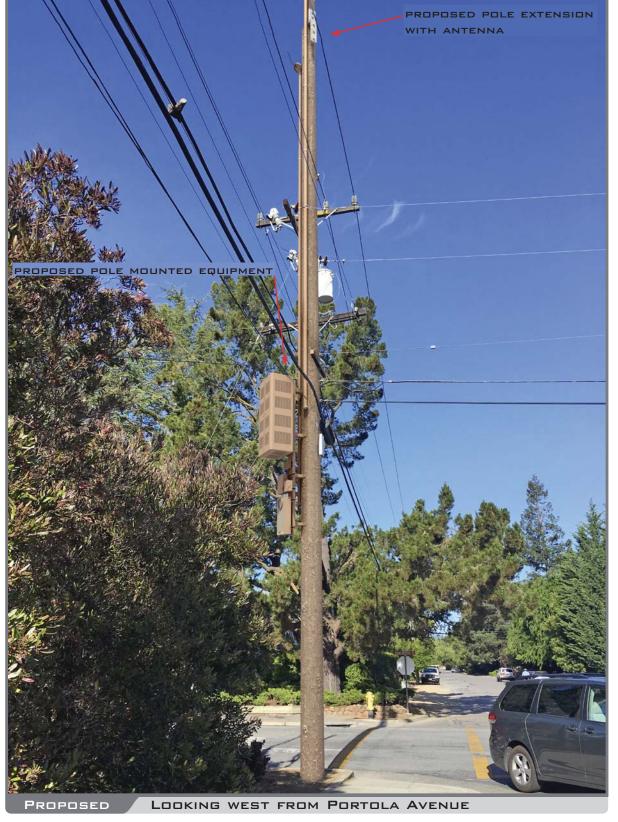
CRAN RSFR LOSAO 06

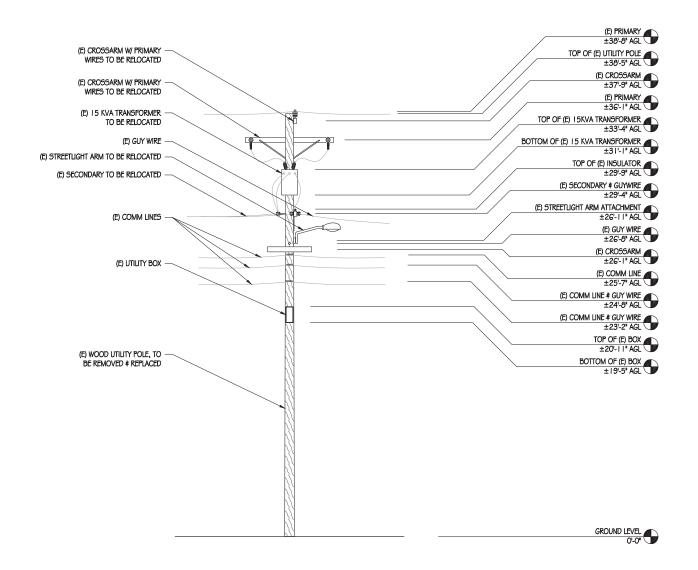
791 LOS ALTOS AVENUE LOS ALTOS CA 94022

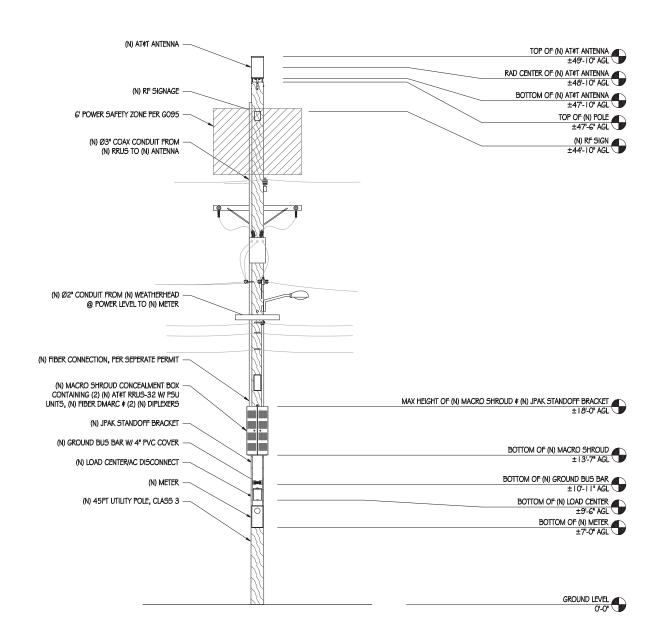


VIEW 1









EXISTING NORTH ELEVATION

NEW NORTH ELEVATION

1/4"=1'-0"

Note: All (n) equipment to be painted mesa brown Note: All (e) equipment to be remounted at same elevation on (n) pole





PRECISION DESIGN

Prone: (530) 822-6546 www.pdnd.com
11768 Alwood Rd. Suite 20 Aubum. CA 95603

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CRAN_RSFR_LOSAO_06

ROW ADJCT TO 791 LOS ALTOS AVE LOS ALTOS, CA 94022

	ISSUE	STATUS	
Δ	DATE	DESCRIPTION	Г
	06/13/18	CD 90%	
	10/29/18	CD 100%	
DRAWN	IBY: (D. REDDISH	
CHECKED BY: T. DICARLO			
APPRO	VED BY: E	В. МсСОМВ	
DATE:	I	10/29/18	
	SHEE	r title:	
	ELEVA	TIONS	

SHEET NUMBER

AT&T Mobility Radio Frequency Statement Los Altos CA Small Cell Node 6

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 Los Altos Avenue near W Portola Avenue. Denial of this proposed facility would materially inhibit AT&Ts 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 791 Los Altos Avenue is needed to close the high-band LTE service coverage in an area bordered roughly by Pasa Robles Avenue to the north, Laverne Way to the west, Van Buren Street to the south and Mercedes Avenue 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 I 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

EXHIBIT 1

LTE 1900 Coverage without Small Cell LOSA0_06

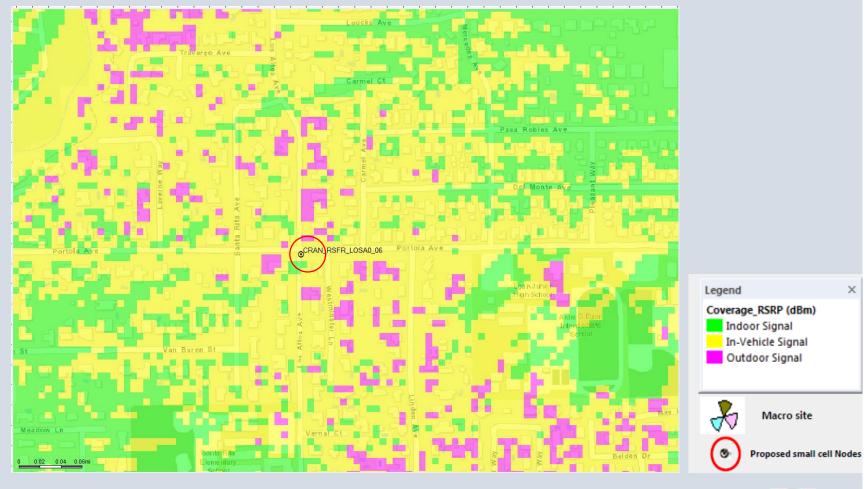




EXHIBIT 2

LTE 1900 Coverage with Small Cell LOSA0_06

