

RESOLUTION NO. PC 19-025

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SAN CLEMENTE, CALIFORNIA, APPROVING, CONDITIONAL USE PERMIT 18-540, AT&T SMALL CELL MSVJ1 001, A REQUEST TO INSTALL AND OPERATE A SMALL WIRELESS FACILITY ON A CITY STREETLIGHT POLE IN THE PUBLIC RIGHT OF WAY AT 948 CALLE AMANECER CS, ON THE WEST SIDE OF CALLE AMANECER AT CALLE CORDILLERA

WHEREAS, on August 31, 2018, an application was submitted, and completed on June 7, 2019, by Franklin Orozco of M Squared Wireless, 1387 Calle Avanzado, San Clemente, CA 92673, on behalf of AT&T; for Conditional Use Permit (CUP) 18-540, a request to install and operate a small wireless facility on a City streetlight pole in the public right of way at 948 Calle Amanecer CS, on the west side of Calle Amanecer at Calle Cordillera; and

WHEREAS, the Planning Division has completed an initial environmental assessment of the above matter in accordance with the California Environmental Quality Act (CEQA) and recommends that the Planning Commission determine the project is Categorical Exempt from CEQA pursuant to State CEQA Guidelines Section 15303 (Class 3: New Construction or Conversion of Small Structures). This is recommended because the project consists of the construction and location for limited numbers of new small facilities and structures, consisting of small wireless facilities located on replacement City-owned streetlight poles in the right of way; and

WHEREAS, on September 9, 2018, the Development Management Team (DMT) reviewed the proposed project for compliance with the General Plan, Zoning Ordinance, and other applicable City ordinances and codes; and

WHEREAS, on September 26, 2018 and December 12, 2018, the Design Review subcommittee (DRSC) considered the project and made recommendations which have been incorporated into the project; and

WHEREAS, the City Planner has advertised and noticed the Planning Commission public hearing for this item at least ten days in advance of the hearing both by publication in a newspaper of general circulation in the City of San Clemente and by mailing a notice of the time, place, and purpose of such hearing to required recipients, including property owners within 300 feet for the subject location; and

WHEREAS, on July 17, 2019, the Planning Commission of the City of San Clemente held a duly noticed public hearing on the subject application, considered written and oral comments, and facts and evidence presented by the applicant, City staff, and other interested parties.

NOW, THEREFORE, The Planning Commission of the City of San Clemente does

hereby resolve as follows:

Section 1. Incorporation of Recitals.

The Planning Commission hereby finds that all of the facts in the Recitals are true and correct and are incorporated and adopted as findings of the Planning Commission as fully set forth in this resolution.

Section 2. CEQA Findings.

Based upon its review of the entire record, including the Staff Report, any public comments or testimony presented to the Planning Commission, and the facts outlined below, the Planning Commission hereby finds and determines that the proposed project is categorically exempt from CEQA pursuant to State CEQA Guidelines Section 15303 (Class 3: New Construction or Conversion of Small Structures). The Class 3 exemption applies to the “construction and location of limited numbers of new, small facilities or structures” and the “installation of small new equipment and facilities in small structures.” The Class 3 exemption applies to the installation of wireless communications equipment at multiple locations. (See *Aptos Residents Association v. County of Santa Cruz* (2018) 20 Cal.App.5th 1039 [finding the proposed installation of 13 microcell transmitters at different locations each consisting of an antenna mounted on an extender pole with related pole-mounted equipment to be exempt under the Class 3 exemption]; *Robinson v. City and County of San Francisco* (2012) 208 Cal.App.4th 950 [finding a series of approximately 40 proposed wireless telecommunications equipment installations to be fastened to utility poles throughout the City to be exempt under the Class 3 exemption]; *San Francisco Beautiful v. City and County of San Francisco* (2014) 226 Cal.App.4th 1012 [finding the installation of 726 metal utility boxes housing telecommunications equipment on city sidewalks to be exempt under the Class 3 exemption].)

Here, the proposed project is one of fourteen applications for the installation of small wireless facility equipment sites which will each include the placement of an antenna along with pole-mounted equipment located within an equipment shroud on replacement City-owned or San Diego Gas and Electric (SDG&E)-owned streetlights or utility poles. Sites also include a small subterranean equipment vault (or “hand-hole”). The equipment meets with the Federal Communications Commission (FCC) definition of “small wireless facility.” Each site thus consists of the “construction and location of limited numbers of new, small facilities or structures, or the “installation of small new equipment and facilities in small structures” within the meaning of the Class 3 exemption.

Furthermore, none of the exceptions to the use of the Class 3 categorical exemption identified in State CEQA Guidelines section 15300.2 apply. The project is not in a particularly sensitive environment and has no impact on any environmental resource of hazardous or critical concern since the project is located in the right of way within a business park, is located approximately 145 feet from the nearest occupiable structure, does not block scenic vistas, and there are not environmental resources affected. The project will not result in a cumulative impact from successive projects of the same type in the same place, over time, because the small wireless facilities are dispersed throughout the City and have been found to function below FCC-established radiofrequency (RF) emissions levels. Any additional or subsequent small wireless facilities proposed to locate

in the immediate vicinity will be subject to the same review with regard to impacts. There are no unusual circumstances surrounding the project that result in a reasonable possibility of a significant effect on the environment. The project is not in a scenic corridor, will not alter or impact historic resources, and does not include any hazardous waste sites. Thus, the Class 3 exemption applies, and no further environmental review is required.

Section 3. Conditional Use Permit Findings

With respect to Conditional Use Permit (CUP) 18-540, the Planning Commission finds as follows:

- A. The proposed use is permitted within the subject zone pursuant to the approval of a Conditional Use Permit and complies with all the applicable provisions of this title, the San Clemente General Plan and the purpose and intent of the zone in which the use is being proposed, in that:
 1. Major utilities, such as antennas in the right of way, are permitted with a Conditional Use Permit pursuant to Zoning Ordinance Sections 17.28.240 and 17.28.070;
 2. The proposed facility is stealthed to the extent feasible with equipment shrouded at the top of the pole, utilizing a replacement of an existing City-owned streetlight; all conduit is located within the pole, and ground equipment and disconnects are located in small underground vaults consistent with General Plan Policy M-1.18, which seeks to promote the City's visual quality and character by encouraging "undergrounding or stealthing of overhead utility lines and equipment, cellular facilities, and related ground-mounted structures;" and
 3. The project is consistent with the Safety and Public Services & Utilities Elements of the General Plan. Emergency response systems utilize cellular technology and enhancing such allows emergency responders to locate callers more quickly. Enhanced cellular service also helps to ensure that the public, which is more and more interconnected through cellular service instead of land-lines, receives emergency alerts.
- B. The site is suitable for the type and intensity of use that is proposed, in that:
 1. The proposed site is in the public right of way in a business park area. The site will be located on a replacement streetlight, the height of which will increase by 4'-9" and is in character with other adjacent, regularly spaced streetlights;
 2. The right of way is a customary location for public utilities and other similar infrastructure. The proposed use will help to provide improved wireless service for the public in the area and meet increasing consumer demands; and

3. The proposed use is an un-manned facility and will not generate any additional pedestrian or vehicular traffic, noise, or other similar impacts except for initial installation and sporadic maintenance, much like other public utility and infrastructure elements.
- C. The proposed use will not be detrimental to the public health, safety or welfare, or materially injurious to properties and improvements in the vicinity, in that:
1. The proposed use will be located on a replaced streetlight pole, the new height of which is in character with other similarly placed streetlights and which is not significantly aesthetically different than the other infrastructure located within the right of way;
 2. The proposed use will not produce any additional noise, light, glare, or other similar impacts because it is an unmanned wireless facility with minimal equipment; and
 3. The FCC has established maximum limitations for safe exposure to RF emissions. The FCC precludes local governments from denying or regulating the placement and construction of wireless facilities on the basis of environmental or health effects of RF to the extent that such facilities comply with FCC regulations concerning acceptable frequency emissions. The FCC has determined that many wireless facilities are unlikely to cause human exposures in excess of the RF exposure limits established by the FCC for public and occupational exposure. Facilities meeting this criteria are categorically excluded from routinely having to determine their compliance though more extensive RF/EME reports conducted by RF engineers or other professionals. The applicant has provided evidence that this facility is categorically excluded and is thus not required to provide a more extensive study. The use will be conditioned to ensure it continues to operate within required FCC parameters pertaining to RF emissions.
- D. The proposed use will not negatively impact surrounding land uses, in that:
1. The proposed use will be located on a replaced streetlight pole, the new height of which is in character with other similarly placed streetlights and which is not significantly aesthetically different than the other infrastructure located within the right of way;
 2. The proposed use is approximately 145 feet from the nearest occupiable structure and the elevation of the right of way is approximately 32 feet higher than the elevation of the nearest adjacent private property;
 3. The proposed use will not produce any additional noise, light, glare, or other similar impacts because it is an unmanned wireless facility with minimal equipment; and
 4. The FCC has established maximum limitations for safe exposure to RF emissions. The FCC precludes local governments from denying or

regulating the placement and construction of wireless facilities on the basis of environmental or health effects of RF to the extent that such facilities comply with FCC regulations concerning acceptable frequency emissions. The FCC has determined that many wireless facilities are unlikely to cause human exposures in excess of the RF exposure limits established by the FCC for public and occupational exposure. Facilities meeting this criteria are categorically excluded from routinely having to determine their compliance though more extensive RF/EME reports conducted by RF engineers or other professionals. The applicant has provided evidence that this facility is categorically excluded and is thus not required to provide a more extensive study. The use will be conditioned to ensure it continues to operate within required FCC parameters pertaining to RF emissions so as to ensure there is no harmful public exposure.

Section 4. Planning Commission Approval.

Based on the foregoing recitals and findings above, and the written and oral comments, facts, and evidence presented, the City of San Clemente Planning Commission approves Conditional Use Permit (CUP) 18-540, AT&T Small Cell MSVJ1 001, subject to the Conditions of Approval set forth in Exhibit A.

PASSED AND ADOPTED at a regular meeting of the City of San Clemente Planning Commission on July 17, 2019.

Chair

CERTIFICATION:

I HEREBY CERTIFY this Resolution was adopted at a regular meeting of the City of San Clemente Planning Commission on July 17, 2019, carried by the following roll call vote:

- AYES: COMMISSIONERS:
- NOES: COMMISSIONERS:
- ABSTAIN: COMMISSIONERS:
- ABSENT: COMMISSIONERS:

Secretary of the Planning Commission

**CONDITIONS OF APPROVAL
CUP 18-540, AT&T SMALL CELL MSVJ1 001**

1.0 GENERAL CONDITIONS OF APPROVAL

- | | | |
|-----|---|----------------|
| 1.1 | Within 30 days of receipt of the signed conditions of approval, the applicant shall submit to the City Planner a signed acknowledgement concurring with all conditions of approval on a form to be provided by the City, unless an extension is granted by the City Planner. | Planning |
| 1.2 | The applicant shall defend, indemnify, and hold harmless the City of San Clemente and its officers, employees, and agents from and against any claim, action, proceeding, fines, damages, expenses, and attorneys' fees, against the City, its officers, employees, or agents to attack, set aside, void, or annul any approval or condition of approval of the City concerning this project, including but not limited to any approval or condition of approval of the City Council, Planning Commission, or City Planner. Applicant shall pay all costs, The City shall promptly notify the applicant of any claim, action, or proceeding concerning the project and the City shall cooperate fully in the defense of the matter. The City reserves the right, at its own option, to choose its own attorney to represent the City, its officers, employees, and agents in the defense of the matter. If the applicant fails to so defend the matter, the City shall have the right, at its own option, to do so and, if it does, the applicant shall promptly pay the City's full cost of the defense. | Planning |
| 1.3 | Use and development of this property shall be in substantial conformance with the approved plans, material boards and other applicable information submitted with this application, and with these conditions of approval. | Planning |
| 1.4 | The applicant shall comply with all applicable current and future provisions of the San Clemente Municipal Code, adopted ordinances, and state laws. | All |
| 1.6 | This Conditional Use Permit may be modified or revoked by the Planning Commission should the Commission determine, after a duly noticed hearing held in compliance with all applicable laws, including without limitation, the Federal Telecommunications Act and FCC rules and regulations, that the proposed use or conditions under which it is being operated or maintained are detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity. | Planning
** |
| 1.7 | In accordance with Government Code Section 66020, the applicant is informed that the 90-day period in which the Applicant | Planning
** |

- may protest the fees, dedications, reservation, or exactions imposed on this project through the conditions of approval has begun.
- 1.8 Within 48 hours from project approval, the applicant shall submit to the Planning Division a check in the amount of \$50.00, made payable to the Orange County Clerk-Recorder, for filing the Notice of Exemption. Planning
**
 - 1.9 Prior to any work in the public right-of-way on City-owned utilities/poles, a fully executed Master License Agreement (MLA), that includes the subject site, shall be in place between the City and the wireless carrier and/or operator of the wireless telecommunications facility. To the extent permitted by law, the applicant shall be responsible for any City Attorney cost associated with review and approval of the MLA. Planning
Public
Works**
 - 1.10 Prior to issuance of permits or any work in the public right-of-way, the applicant shall submit for and obtain an Encroachment Permit to cover the inspection of the actual work in the public right-of-way. The public sidewalk shall remain open at all times of construction, unless otherwise approved by the City Engineer. Public
Works**
 - 1.11 If the poles are to be removed and/or replaced at a later time due to undergrounding of utilities, damage to the pole, installation of sidewalk, or any other such reason where the pole is changed, it shall be the sole cost of the improvement owner to remove/relocate their facilities. Modification to facilities may require the approval of the City Planner or further discretionary permits. Similarly, it shall be the responsibility of the owner or designee to relocate and/or replace, all improvements associated with this application in the event a conflict with pre-existing utilities or infrastructure is found at any time. Public
Works**
 - 1.12 Prior to issuance of any Encroachment Permit, if it is determined that proposed work involves cutting into existing street paving that is subject to the City's Moratorium Policy, the City Engineer shall establish repair standards which may include repaving the entire width of the street in the area of the proposed work. Public
Works**
 - 1.13 The applicant shall maintain 4-foot sidewalk clearance around proposed improvements. The applicant shall be responsible for adjusting improvements as needed, including obtaining any necessary associated approvals. Public
Works**
 - 1.14 *Permit Duration.* A Conditional Use Permit shall be valid for a period of ten (10) years, unless pursuant to another provision of the Code or these conditions, it expires sooner or is terminated. At Planning
**

the end of ten (10) years from the date of issuance, such Permit shall automatically expire, unless an extension or renewal has been granted. A person holding a wireless encroachment permit must either (1) remove the facility within thirty (30) days following the permit's expiration (provided that removal of support structure owned by City, a utility, or another entity authorized to maintain a support structure in the right of way need not be removed, but must be restored to its prior condition, except as specifically permitted by the City); or (2) at least ninety (90) days prior to expiration, submit an application to renew the permit, which application must, among all other requirements, demonstrate that the impact of the wireless facility cannot be reduced. The wireless facility must remain in place until it is acted upon by the City and all appeals from the City's decision exhausted.

1.15 The permittee shall at all times maintain compliance with all applicable federal, state and local laws, regulations and other rules, including, without limitation, those applying to use of public rights-of-way. Planning
**

1.16 *RF Exposure Compliance.* All facilities must comply with all standards and regulations of the FCC and any other state or federal government agency with the authority to regulate RF exposure standards. After transmitter and antenna system optimization, but prior to unattended operations of the facility, permittee or its representative must conduct on-site post-installation RF emissions testing to demonstrate actual compliance with the FCC OET Bulletin 65 RF emissions safety rules for general population/uncontrolled RF exposure in all sectors. For this testing, the transmitter shall be operating at maximum operating power, and the testing shall occur outwards to a distance where the RF emissions no longer exceed the uncontrolled/general population limit. Planning
**

1.17 *No waiver of standing.* The city's grant of a permit for a small cell facility request does not waive, and shall not be construed to waive, any standing by the city to challenge any FCC orders or rules related to small cell facilities, or any modification to those FCC orders or rules. Planning
**

5.0 PRIOR TO FINAL INSPECTION

5.10 The applicant shall ensure the equipment shroud is in a color and finish to match the lightpole to the satisfaction of the City Planner. Planning
**

7.0 OPERATIONAL CONDITIONS OF APPROVAL

7.15 The Applicant is required to completely dismantle and remove the Planning

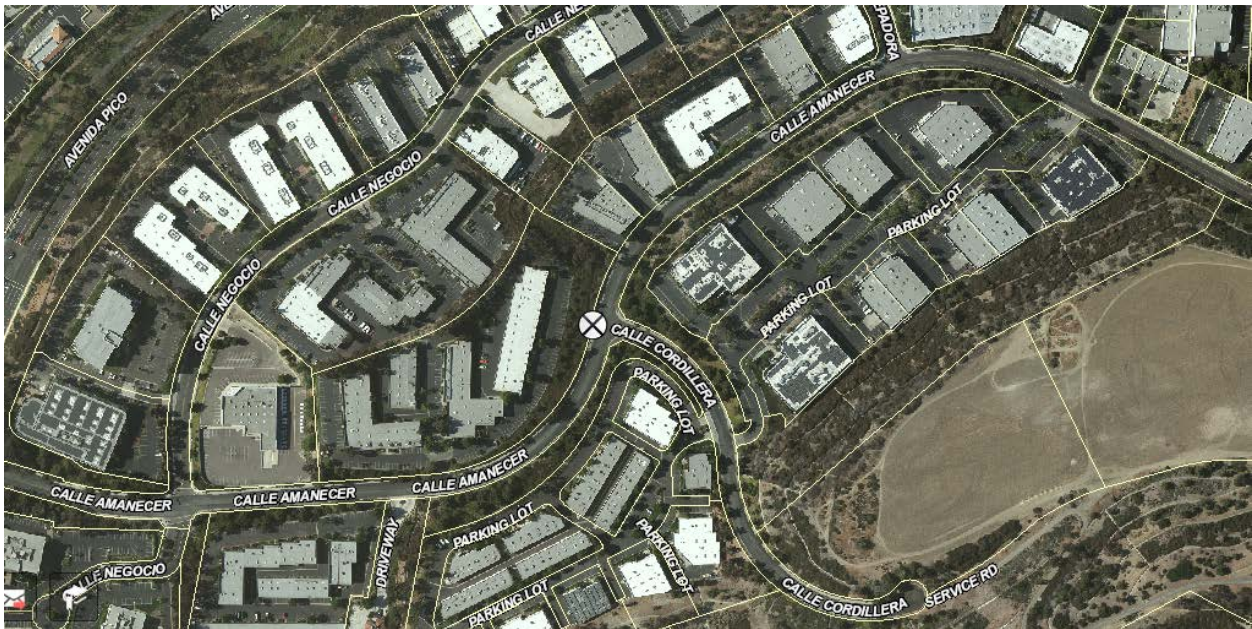
- wireless facility and all of its associated antennas and all equipment and infrastructure established and maintained at the subject location pursuant to this permit if the use is abandoned, discontinued, or no longer providing service for a period of six months or more. Public Works**
- 7.16 The applicant shall cooperate with other wireless communications providers in co-locating additional antennas, equipment or structures at the subject location, provided said providers have received all required approvals. The applicant shall exercise good faith in co-locating with other wireless providers and sharing the permitted site, provided such shared use does not give rise to a substantial technical level or quality of service impairment of the permitted use (as opposed to a competitive conflict or financial burden). Planning**
- 7.17 The applicant shall maintain all communications facility and antenna elements approved pursuant to this permit in a “like new” condition and shall promptly repair, replace, or repaint elements as applicable within 90 days upon written notification from the City Planner. Planning**
- 7.18 All future modifications to this facility shall be in conformance with applicable City ordinances and state and federal regulations at the time of the modification. Planning**

* Denotes a modified Standard Condition of Approval

** Denotes a project-specific Condition of Approval

CUP 18-540: MSVJ1 001

Project Location and Setting



The site is a streetlight pole at 948 Calle Amanecer CS, on the west side of Calle Amanecer at Calle Cordillera. Calle Amanecer is a two-lane street with bike lanes with tapered concrete streetlights at regularly spaced intervals down each side.

The site is located in the Rancho San Clemente Business Park. The nearest occupiable structure is an office building at 946 Calle Amanecer, which is approximately 145 feet

away from streetlight pole. The building pad is approximately 32' lower than the base of the pole.



**AT&T Mobility Radio Frequency Statement
San Clemente CA Small Cell Node MSVJ1_001**

The proposed node is necessary to improve signal quality in the area, which will increase data rates necessary for customers to consistently stream video. The node will do so by offloading network traffic carried by an antenna sector on a nearby macro facility that is experiencing, or is forecast to experience, capacity restraints that reduce mobile data speeds. Increasing data speed is critical to providing the mobile experience customers demand and to manage the unprecedented increase in mobile data usage on AT&T's network. AT&T estimates that since introduction of the iPhone in 2007, mobile data usage has increased 250,000% 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 that 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. When facilities are placed in high-traffic areas where the local macro sector is constrained, the customer receives a stronger signal that produces faster data rates. The faster data rates allow customers to get on and off the network quickly, which produces more efficient use of the limited spectrum. Thus, 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.

As noted above, competition and customer demand require that AT&T design and maintain its network so that customers experience average data rates sufficient to stream video. Any areas that do not meet this minimal standard represent a service coverage gap that must be closed. This small cell facility that AT&T proposes in this portion of San Clemente is needed to close a service coverage gap. This service coverage gap is significant because it includes many dozens of homes in nearby residential areas, parks, and a school. The proposed small cell facility will not only help close the existing gap by improving data speeds, but it will also help address the increased usage by offloading the nearby macro antenna sector during current and future peak demand periods.

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.

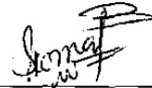
It is also important to note that the signal losses, slow data rates, and other service problems can and do occur for customers even at times when certain other customers in the same vicinity may not experience any problems on AT&T's network. These problems can and do occur even when certain customers' 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 simulation tools to identify the areas in its network where interference will affect data rates and 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 evaluates signal quality based on the Signal to Interference and Noise Ratio (SINR), which directly affects data speeds. AT&T designs and builds its wireless network to ensure customers will receive reliable in-building service coverage and data rates sufficient to stream video and complete calls. This level of service is critical as customers increasingly use their mobile phones as their primary communication devices (more than 70% of American households rely exclusively or primarily on wireless phones) 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 the federal First Responder Network Authority, FirstNet, as the wireless service provider to build and manage the nationwide first responder wireless network, each new or modified facility will strengthen first responder communications.

Exhibit 1 is a map that depicts the area near the proposed node by data rates when noise or interference is introduced into the high-band signal of the existing high-band LTE service (without the proposed small cell node). The green shading shows areas where customers experience excellent data speeds that can typically support high-definition video streaming, and the yellow shading portrays areas where customers experience acceptable data speeds to stream standard-definition video. The pink shading, however,

depicts areas where customers will not be able to reliably stream video and are using resources inefficiently. Exhibit 2 displays this same area after the proposed small cell node is constructed and on air. As you can see, the proposed node helps to close AT&T's significant service coverage gap in this area effectively.

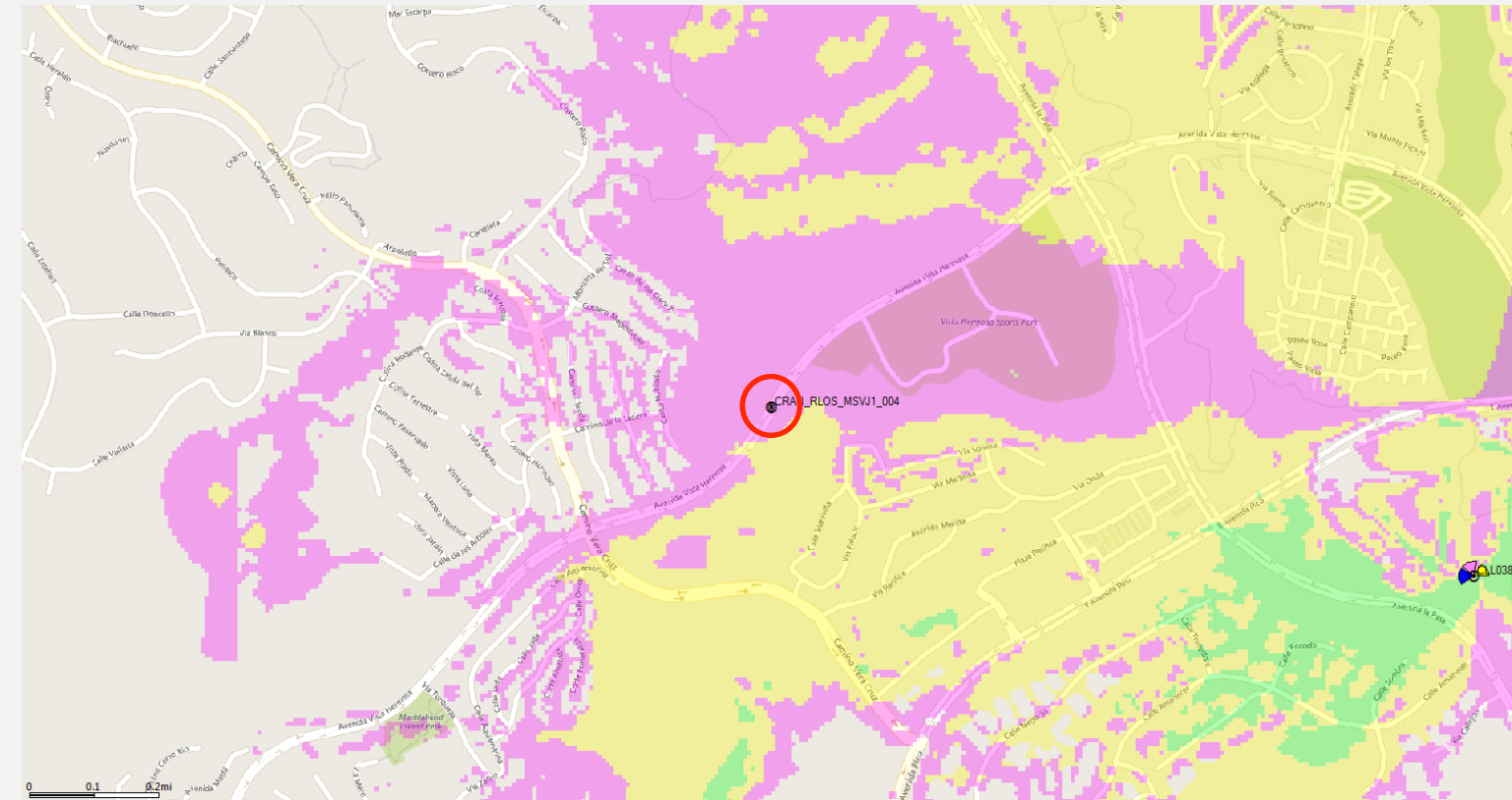
My conclusions are based on my knowledge of the proposed small cell locations and with AT & T's wireless network in the surrounding area. I have a Bachelor Degree in Telecommunications Engineering from the University of Texas, and have worked as an engineering expert in the wireless communications industry for more than 10 years.



Komal Mustafa
AT&T Mobility Services LLC
Network, Planning & Engineering
RAN Design & RF Engineering
August 2018

SINR_Coverage without Small cell

Node: MSVJ1_001 – Exhibit 1



Legend

- Network SINR**
- Excellent Data Speeds
 - Good Data Speeds
 - Poor Data Speeds



Macro site

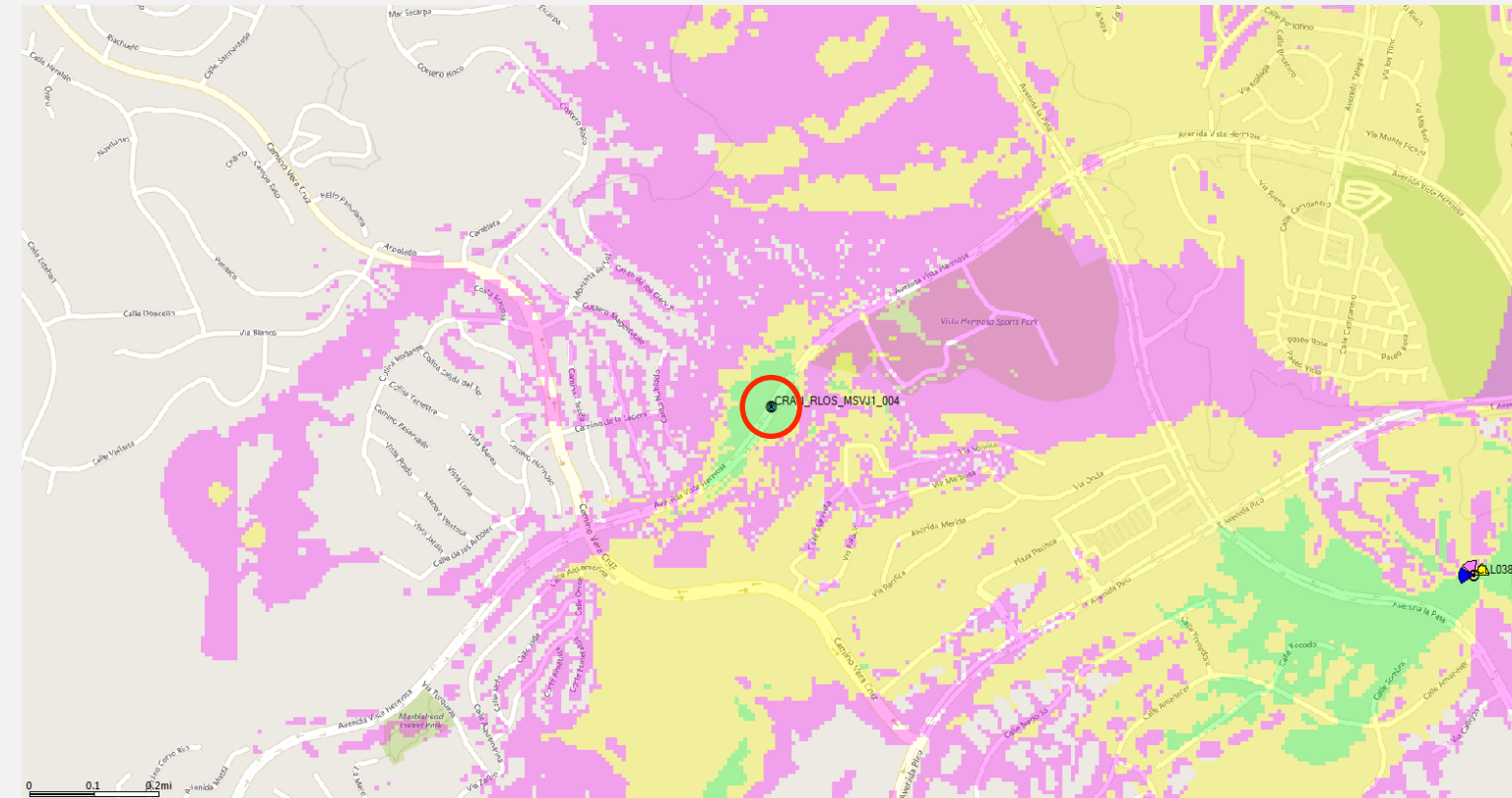


Proposed small cell Nodes



SINR_Coverage with Small cell

Node: MSVJ1_001 – Exhibit 2



Legend

- Network SINR**
- Excellent Data Speeds
 - Good Data Speeds
 - Poor Data Speeds

- Macro site
- Proposed small cell Nodes



**Optional Checklist for Local Government
To Determine Whether a Facility is Categorically Excluded**

Purpose: The FCC has determined that many wireless facilities are unlikely to cause human exposures in excess of RF exposure guidelines. Operators of those facilities are exempt from routinely having to determine their compliance. These facilities are termed "categorically excluded." Section 1.1307(b)(1) of the Commission's rules defines those categorically excluded facilities. This checklist will assist state and local government agencies in identifying those wireless facilities that are categorically excluded, and thus are highly unlikely to cause exposure in excess of the FCC's guidelines. Provision of the information identified on this checklist may also assist FCC staff in evaluating any inquiry regarding a facility's compliance with the RF exposure guidelines.

BACKGROUND INFORMATION

1. Facility Operator's Legal Name: AT&T Mobility
2. Facility Operator's Mailing Address: 1452 Edinger Avenue, Tustin, CA 92618
3. Facility Operator's Contact Name/Title: Amelia Pineda
4. Facility Operator's Office Telephone: (800) 832-6662
5. Facility Operator's Fax: _____
6. Facility Name: CRAN_RLOS_MSVJ1_001
7. Facility Address: 948 Calle Amanacer CS
8. Facility City/Community: San Clemente
9. Facility State and Zip Code: CA 92673
10. Latitude: 33.450879
11. Longitude: -117.603557

continue
→

Optional Local Government Checklist (page 2)

EVALUATION OF CATEGORICAL EXCLUSION

12. Licensed Radio Service (see attached Table 1): Personal Communications Services
13. Structure Type (free-standing or building/roof-mounted): Free-standing
14. Antenna Type [omnidirectional or directional (includes sectored)]: Omni
15. Height above ground of the lowest point of the antenna (in meters): 9.95
16. Check if all of the following are true:
- (a) This facility will be operated in the Multipoint Distribution Service, Paging and Radiotelephone Service, Cellular Radiotelephone Service, Narrowband or Broadband Personal Communications Service, Private Land Mobile Radio Services Paging Operations, Private Land Mobile Radio Service Specialized Mobile Radio, Local Multipoint Distribution Service, or service regulated under Part 74, Subpart I (see question 12).
- (b) This facility will not be mounted on a building (see question 13).
- (c) The lowest point of the antenna will be at least 10 meters above the ground (see question 15).

If box 16 is checked, this facility is categorically excluded and is unlikely to cause exposure in excess of the FCC's guidelines. The remainder of the checklist need not be completed. If box 16 is not checked, continue to question 17.

17. Enter the power threshold for categorical exclusion for this service from the attached Table 1 in watts ERP or EIRP* (note: $EIRP = (1.64) \times ERP$): 1640 per Table 1 PCS (part 24)
18. Enter the total number of channels if this will be an omnidirectional antenna, or the maximum number of channels in any sector if this will be a sectored antenna: 4
19. Enter the ERP or EIRP per channel (using the same units as in question 17): 20
20. Multiply answer 18 by answer 19: 80
21. Is the answer to question 20 less than or equal to the value from question 17 (yes or no)? (yes)

If the answer to question 21 is YES, this facility is categorically excluded. It is unlikely to cause exposure in excess of the FCC's guidelines.

If the answer to question 21 is NO, this facility is not categorically excluded. Further investigation may be appropriate to verify whether the facility may cause exposure in excess of the FCC's guidelines.

*"ERP" means "effective radiated power" and "EIRP" means "effective isotropic radiated power"

TABLE 1 (cont.)

SERVICE (TITLE 47 CFR RULE PART)	EVALUATION REQUIRED IF:
<p>Personal Communications Services (part 24)</p>	<p>(1) Narrowband PCS (subpart D): <u>non-building-mounted antennas</u>: height above ground level to lowest point of antenna < 10 m <u>and</u> total power of all channels > 1000 W ERP (1640 W EIRP) <u>building-mounted antennas</u>: total power of all channels > 1000 W ERP (1640 W EIRP)</p> <p>(2) Broadband PCS (subpart E): <u>non-building-mounted antennas</u>: height above ground level to lowest point of antenna < 10 m <u>and</u> total power of all channels > 2000 W ERP (3280 W EIRP) <u>building-mounted antennas</u>: total power of all channels > 2000 W ERP (3280 W EIRP)</p>
<p>Satellite Communications (part 25)</p>	<p>all included</p>
<p>General Wireless Communications Service (part 26)</p>	<p>total power of all channels > 1640 W EIRP</p>
<p>Wireless Communications Service (part 27)</p>	<p>total power of all channels > 1640 W EIRP</p>
<p>Radio Broadcast Services (part 73)</p>	<p>all included</p>



LOCATION

@2016 Google Maps



EXISTING



PROPOSED

LOOKING SOUTHWEST FROM CALLE AMANCER



LOCATION

@2016 Google Maps



EXISTING



PROPOSED

LOOKING NORTHWEST FROM CALLE CORDILLERA



LOCATION

@2016 Google Maps



EXISTING



PROPOSED

LOOKING NORTHWEST FROM CALLE AMANACER

SITE NAME: MSVJ1 01A
 SITE NUMBER: CRAN_RLOS_MSVJ1_001
 PROJECT: CRAN/ SMALL CELL/ PICO
 USID: 213579
 PACE: MRLOS049593



POLE TYPE: (N) CONCRETE LIGHT POLE
 POLE ID #: 21A-6
 LATITUDE/LONGITUDE: 33.450879/ -117.603551
 SITE ADDRESS: 948 1/3 CALLE AMANECER,
 SAN CLEMENTE, CA 92673
 FIBER ADDRESS: 948 CALLE AMANECER
 SAN CLEMENTE, CA 92673

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. 2016 CALIFORNIA ADMINISTRATIVE CODE
2. 2016 CALIFORNIA BUILDING CODE
3. 2016 CALIFORNIA ELECTRIC CODE
4. 2016 CALIFORNIA MECHANICAL CODE
5. 2016 CALIFORNIA PLUMBING CODE
6. 2016 CALIFORNIA FIRE CODE
7. ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
8. CITY/COUNTY ORDINANCES

HANDICAP REQUIREMENTS:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 1103B.

CODE COMPLIANCE

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEW.

GENERAL NOTES



Dig Alert

Know what's below.
 Call before you dig.

CALIFORNIA SOUTH
 Call Two Working Days Before You Dig!
 811 / 800-227-2600

DIG ALERT

PUBLIC/Private:
 ADDRESS: 948 1/3 CALLE AMANECER, SAN CLEMENTE, CA 92673
 APPLICANT: AT&T
 ADDRESS: 1452 EDINGER AVE, TUSTIN, CA 92780
 LATITUDE (NAD 83): 33.450879
 LONGITUDE (NAD 83): -117.603551
 LAT/LONG TYPE: NAD-83
 GROUND ELEVATION (NAVD 88): ±350'
 JURISDICTION: CITY OF SAN CLEMENTE
 CURRENT ZONING: PUBLIC RIGHT OF WAY
 PROPOSED USE: UNMANNED TELECOMMUNICATIONS
 POWER COMPANY: SDG&E
 ADDRESS: 8335 CENTURY PARK COURT, CP-11D, SAN DIEGO, CA 92123

PROJECT SITE INFORMATION

PROJECT MANAGER:
 M SQUARED WIRELESS
 1387 CALLE AVANZADO
 SAN CLEMENTE, CA 92673
 SAC/ZONING/PERMITTING:
 M SQUARED WIRELESS
 1387 CALLE AVANZADO
 SAN CLEMENTE, CA 92673
 RF ENGINEER:
 AT&T
 1452 EDINGER AVE.
 TUSTIN, CA 92618
 CONTACT: KARLO DAVINAGRACIA
 EMAIL: KD270J@ATT.COM

ENGINEER:
 M SQUARED WIRELESS
 1387 CALLE AVANZADO
 SAN CLEMENTE, CA 92673
 SENIOR TECHNICAL PROJECT MANAGER:
 AT&T
 1452 EDINGER AVE.
 TUSTIN, CA 92618
 CONTACT: TED SUEKAWA
 EMAIL: TS4994@ATT.COM

PROJECT TEAM

AREA MAPS



VICINITY MAP

LOCATION MAP

DIRECTIONS FROM AT&T OFFICE:

- DIRECTION ARE TAKEN FROM 1452 EDINGER AVE, TUSTIN, CA 92780
1. TURN RIGHT ONTO EDINGER AVE
 2. TURN LEFT ONTO RED HILL
 3. TURN RIGHT ONTO I-5 S
 4. TAKE EXIT 76 FOR AVENIDA PICO
 5. TURN LEFT ONTO AVENIDA PICO
 6. TURN RIGHT ONTO CALLE AMANECER

DESTINATION WILL BE ON THE LEFT,
 948 1/3 CALLE AMANECER, SAN CLEMENTE, CA 92673

DRIVING DIRECTIONS

IF USING 11"x17" PLOT, DRAWING WILL BE HALF SCALE

CASE #: CUP 18-540

CONSTRUCTION DRAWING

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN, ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.

APPROVED BY:	INITIALS:	DATE:
AT&T RF ENGINEER:		
AT&T OPERATIONS:		
SITE ACQUISITION MANAGER:		
PROJECT MANAGER:		
ZONING VENDOR:		
LEASING VENDOR:		
CONSTRUCTION MANAGER:		
A/E MANAGER:		
PROPERTY OWNER:		
UTILITY MANAGER:		

APPROVALS

AT&T PROPOSES TO INSTALL A NEW WIRELESS INSTALLATION LOCATED IN THE PUBLIC RIGHT OF WAY TO (N) CONCRETE LIGHT POLE.

THE SCOPE WILL CONSIST OF THE FOLLOWING:

- * AT&T TO REMOVE (1) EXISTING CONCRETE STREETLIGHT
- * AT&T TO INSTALL (1) 29'-3" CONCRETE STREETLIGHT
- * AT&T TO INSTALL (4) NEW AT&T REMOTE RADIO UNITS
- * AT&T TO INSTALL (1) NEW AT&T OMNI-DIRECTIONAL ANTENNA
- * AT&T TO INSTALL (1) NEW AT&T EQUIPMENT SHROUD
- * AT&T TO INSTALL (1) NEW RAYCAP DISCONNECT
- * AT&T TO INSTALL (1) NEW HANDHOLE

PROJECT DESCRIPTION

SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
GN-1	GENERAL NOTES
A-1	SITE PLAN
A-2	ELEVATIONS
A-3	ELEVATIONS
A-4	SITE IMAGE
D-1	DETAILS
D-2	DETAILS
E-1	ELECTRICAL & GROUNDING DETAILS

DRAWING INDEX

SUBCONTRACTOR SHALL VERIFY ALL PLANS & EXISTING 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.

DO NOT SCALE DRAWINGS



330 COMMERCE, STE. 200
 IRVINE, CA 92602



1387 CALLE AVANZADO
 SAN CLEMENTE CA 92673 (949) 391-8824

DRAWN BY: EG

CHECKED BY: MM

REV	DATE	DESCRIPTION
C	05/21/2019	REVISION
B	02/05/2019	100% CONSTRUCTION
A	01/21/2019	90% CONSTRUCTION



DATE SIGNED: 2/14/2019

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

SITE ID: MSVJ1 01A
 948 1/3 CALLE AMANECER
 SAN CLEMENTE, CA 92673

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

	NEW ANTENNA		GROUT OR PLASTER		TELCO (FIBER) RUN
	EXISTING ANTENNA		(E) BRICK		GROUNDING CONDUCTOR
	GROUND ROD		(E) MASONRY		UNDERGROUND TELCO (FIBER) RUN
	GROUND BUS BAR		CONCRETE		UNDERGROUND POWER (ELECTRICAL) RUN
	MECHANICAL GRND. CONN.		EARTH		
	CADWELD		GRAVEL		
	GROUND ACCESS WELL		PLYWOOD		
	ELECTRIC BOX		SAND		FUSE, SIZE AND TYPE AS INDICATED.
	TELEPHONE BOX		WOOD CONT.		SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NRB
	LIGHT POLE		WOOD BLOCKING		MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE
	FND. MONUMENT		STEEL		LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WSW232T
	SPOT ELEVATION		CENTERLINE		LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/95W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #TWSM232T
	SET POINT		PROPERTY/LEASE LINE		LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121
	REVISION		MATCH LINE		EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB
	GRID REFERENCE		WORK POINT		COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PRC
	DETAIL REFERENCE		GROUND CONDUCTOR		EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HE6-50-2-R91
	ELEVATION REFERENCE		COAXIAL CABLE		LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1
	SECTION REFERENCE		OVERHEAD SERVICE CONDUCTORS		LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #QL-505
			CHAIN LINK FENCING		LIGHTING FIXTURE, 1/175W, METAL HALIDE, HUBBELL CAT #MIC-0175H-336
			OVERHEAD TELEPHONE/OVERHEAD POWER		5/8" X 10'-0" CU. GND ROD 30" MIN. BELOW GRADE.
			OVERHEAD TELEPHONE LINE		
			OVERHEAD POWER LINE		
			POWER (ELECTRICAL) RUN		
			POWER/FIBER RUN		

- THE FACILITY IS AN UNOCCUPIED DIGITAL TELECOMMUNICATION FACILITY.
- PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A 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.
- PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
- PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
- DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING (SHEET LS1 OR SHEET C-1), SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS 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 ENGINEER.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, VEGETATION, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF AT&T.
- KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
- PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATER TIGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. CONTRACTOR SHALL OBTAIN DETAILED CLARIFICATION FOR SITE-SPECIFIC CONDITIONS FROM ENGINEER, IF NECESSARY, BEFORE PROCEEDING.
- BEFORE ORDERING AND/OR BEFORE FABRICATING/CONSTRUCTING/INSTALLING ANY ITEMS, VERIFY THE TYPES AND QUANTITIES.
- CONTRACTOR SHALL PROVIDE SITE FOREMAN WITH A CELLULAR PHONE AND PAGER, AND KEEP SAME ON SITE WHENEVER PERSONNEL ARE ON SITE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE AND NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES BEFORE STARTING ANY WORK.
- CONTRACTOR TO PROVIDE COMPLETE SET OF AS BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
- CONTRACTOR IS TO EXCAVATE 6" BELOW EXISTING GRADE AND SPRAY WITH WEED CONTROL, REPLACE WITH CLASS II AGGREGATE BASE AND CRUSHED WASHED ROCK, AS SPECIFIED ON SITE PLAN.
- CONTRACTOR SHALL PROVIDE TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR THE FABRICATION OF MATERIALS TO BE INSTALLED AT THE SITE, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INCLUDING AS-BUILT DIMENSIONS OF EXISTING STRUCTURES OR STRUCTURAL ELEMENTS HAVING A BEARING ON THE SCOPE OF THE WORK TO BE PERFORMED. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE DIMENSIONS OR CONDITIONS FOUND TO BE EXISTING IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN DESIGN RESOLUTION PRIOR TO PROCEEDING WITH THE PORTION(S) OF THE WORK AFFECTED. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO SO NOTIFY THE ENGINEER AND OBTAIN RESOLUTION BEFORE PROCEEDING.



ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARE WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

DRAWN BY: EG
CHECKED BY: MM

REV	DATE	DESCRIPTION
C	05/21/2019	REVISION
B	02/05/2019	100% CONSTRUCTION
A	01/21/2019	90% CONSTRUCTION



DATE SIGNED: 2/14/2019

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

SITE ID: MSVJ1 01A
948 1/3 CALLE AMANECER
SAN CLEMENTE, CA 92673

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

ABBREVIATIONS

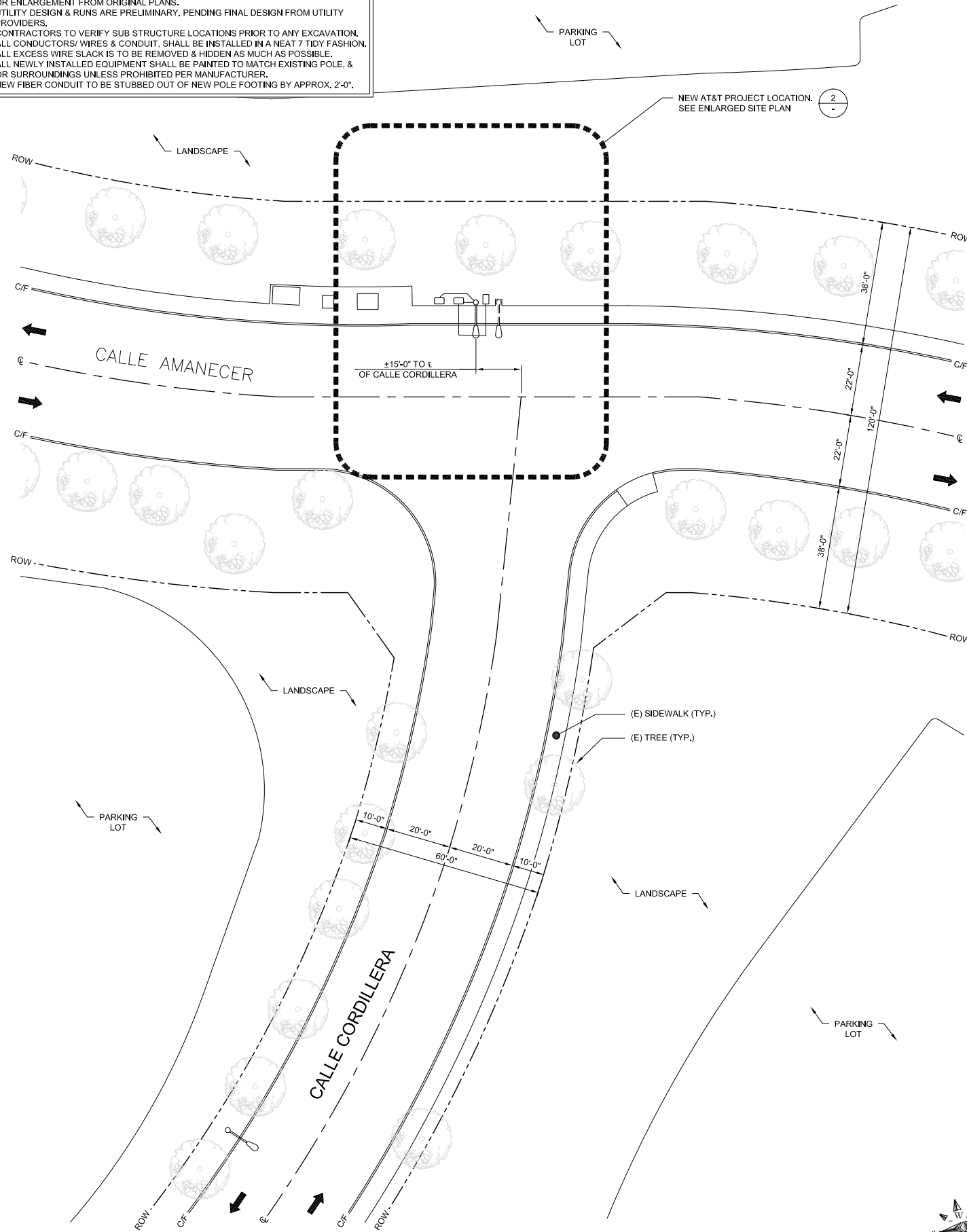
A	AMPERE	EMT.	ELECTRICAL METALLIC TUBING	MTD.	MOUNTED	T.O.F.	TOP OF FOUNDATION
A.B.	ANCHOR BOLT	E.N.	EDGE NAIL	MTG.	MOUNTING	T.O.P.	TOP OF PLATE (PARAPET)
ABV.	ABOVE	ENCL.	ENCLOSURE	MTL.	METAL	T.O.S.	TOP OF STEEL
AC	ALTERNATE CURRENT/AIR CONDITIONER	ENG.	ENGINEER	MTS.	MANUAL TRANSFER SWITCH	T.O.W.	TOP OF WALL
ACCA	ANTENNA CABLE COVER ASSEMBLY	EQ.	EQUAL	N	NEUTRAL	TYP.	TYPICAL
ADD'L	ADDITIONAL	EXST.(E)	EXISTING	(N)	NEW	U.G.	UNDER GROUND
A.F.F.	ABOVE FINISHED FLOOR	EXP.	EXPANSION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	U.L.	UNDERWRITERS LABORATORY INC.
A.F.G.	ABOVE FINISHED GRADE	EXT.	EXTERIOR	NO.(#)	NUMBER	UMTS	UNIVERSAL MOBIL TECH, SYS. (3G MOBILE TECH)
AIC	AMPERE INTERRUPTING CAPACITY	FAB.	FABRICATION(OR)	NOT TO SCALE	NOT TO SCALE	U.N.O.	UNLESS NOTED OTHERWISE
ALUM.	ALUMINUM	FAC.	FACTOR	OBIF	OPTICAL BASEBAND INTERFACE	V	VOLT
ALT.	ALTERNATE	F/A	FIRE ALARM	OH	OVERHEAD	VAC	VOLT ALTERNATING CURRENT
ANT.	ANTENNA	F.F.	FINISH FLOOR	O.C.	ON CENTER	V.I.F.	VERIFY IN FIELD
APPROX.	APPROXIMATE(LY)	F.G.	FINISH GRADE	OPNG.	OPENING	W	WATT OR WIRE
ARCH.	ARCHITECT(URAL)	FIN.	FINISHED	P	POLE	WD	WIDE(WIDTH)
AT	AMPERE TRIP	FLR.	FLOOR	P/C	PRECAST CONCRETE	W/	WITH
AWG.	AMERICAN WIRE GAUGE	FLUOR	FLUORESCENT	PCS	PERSONAL COMMUNICATION SERVICES	W/O	WITHOUT
BATT.	BATTERY	FDN.	FOUNDATION	PH	PHASE	WD.	WOOD
BD.	BOARD	F.O.C.	FACE OF CONCRETE	PLY.	PLYWOOD	W.P.	WEATHERPROOF
BLDG.	BUILDING	F.O.M.	FACE OF MASONRY	PNLBD	PANEL BOARD	WT.	WEIGHT
BLCK.	BLOCK	F.O.S.	FACE OF STUD	PPC	POWER PROTECTION CABINET	XFMR	TRANSFORMER
BLKG.	BLOCKING	F.O.W.	FACE OF WALL	PRC	PRIMARY RADIO CABINET	XLPE	CROSS-LINK POLYETHYLENE
BM.	BEAM	F.S.	FINISH SURFACE	PRI	PRIMARY	CL	CENTERLINE
B.N.	BOUNDARY NAILING	FT.(')	FOOT (FEET)	P.S.F.	POUNDS PER SQUARE FOOT	C	PLATE, PROPERTY LINE
BR.	BRANCH	FTG.	FOOTING	P.S.I.	POUNDS PER SQUARE INCH		
BRKR.	BREAKER	FU	FUSE	P.T.	PRESSURE TREATED		
BTBW.	BARE TINNED COPPER WIRE	G	GROUND	PWR.	POWER (CABINET)		
BTS.	BASE TRANSMISSION SYSTEM	GR	GROWTH (CABINET)	QTY.	QUANTITY		
B.O.F.	BOTTOM OF FOOTING	GA.	GAUGE	RAD.(R)	RADIUS		
B/U	BACK-UP CABINET	GEN.	GENERATOR	RBS	RADIO BASE STATION		
C	CONDUIT	GL.	GALVANIZE(D)		(BASE STATION 3G NETWORKS)		
CAB.	CABINET	G.F.C.I.	GROUND FAULT CIRCUIT INTERRUPTER	RCPT.	RECEPTACLE		
CANT.	CANTILEVER(ED)	GLB. (GLU-LAM)	GLUE LAMINATED BEAM	REF.	REFERENCE		
CB.	CIRCUIT BREAKER	GND	GROUND	REINF.	REINFORCEMENT(ING)		
CDMA	CODE-DIVISION MULTIPLE ACCESS (2G & 3G)	GPS	GLOBAL POSITIONING SYSTEM	REQ'D.	REQUIRED		
CDJK	CONSOLIDATION DISTRIBUTION UNIT KIT	GRND.	GROUND	RGS.	RIGID GALVANIZED STEEL		
C.I.P.	CAST IN PLACE	GSM	GLOBAL SYSTEM MOBILE (2G+ MOBILE TECH.)	RRU	REMOTE RADIO UNIT		
CKT.	CIRCUIT	HDBC	HARD DRAWN COPPER WIRE		(RADIO TRANSCIEVER)		
CLG.	CEILING	HDR.	HEADER	RX-AIT	RECEIVER AIR INTERFACE TRAY		
CLR.	CLEAR	HGR.	HANGER	SAF	SAFETY		
CMU	CONCRETE MASONRY UNIT (JAMB BLOCKS)	HPS	HIGH PRESSURE SODIUM	SCH.	SCHEDULE		
COL.	COLUMN	HT.	HEIGHT	SDBC	SOFT DRAWN BARE COPPER		
CONC.	CONCRETE	ICGB.	ISOLATED COPPER GROUND BUS	SEC	SECONDARY		
CONN.	CONNECTION(OR)	IN.(')	INCH(ES)	SHT.	SHEET		
CONSTR.	CONSTRUCTION	INT.	INTERIOR	SIM.	SIMILAR		
CONT.	CONTINUOUS	INT.(#)	INTERIOR FOUND(S)	S.M.	SOLID NEUTRAL		
C	PENNY (NAILS)	L.B.(#)	LAG BOLTS	SPEC.	SPECIFICATION(S)		
DBL.	DOUBLE	L.F.	LINEAR FEET (FOOT)	SO.	SQUARE		
DC	DIRECT CURRENT	L.G.	LENGTH	S.S.	STAINLESS STEEL		
DEM.	DEMAND	L.	LONGITUDINAL	STD.	STANDARD		
DEPT.	DEPARTMENT	LPS	LOW PRESSURE SODIUM	STL.	STEEL		
D.F.	DOUGLAS FIR	LTE	LONG TERM EVOLUTION (4G MOBILE TECH.)	STRUC.	STRUCTURAL		
DIA.	DIAMETER	MAS.	MASONRY	SURF.	SURFACE		
DIAG.	DIAGONAL	MAX.	MAXIMUM	SW	SWITCH		
DIM.	DIMENSION	M.B.	MACHINE BOLT	TEL.	TELEPHONE		
DWG.	DRAWING(S)	MECH.	MECHANICAL	TEMP.	TEMPORARY		
DWL.	DOWEL(S)	MFR.	MANUFACTURER	THK.	THICKNESS		
EA.	EACH	MIN.	MINIMUM	TMS	TOWER MOUNTED AMPLIFIER		
EGR.	EMERGENCY GENERATOR RECEPTACLE	MISC.	MISCELLANEOUS		(DC SUPPLY VOLTAGE)		
EL.	ELEVATION	MLO	MAIN LUGS ONLY	T.N.	TOE NAIL		
ELEC.	ELECTRICAL			T.O.A.	TOP OF ANTENNA		
ELEV.	ELEVATOR			T.O.C.	TOP OF CURB		

ABBREVIATIONS

GENERAL NOTES

3

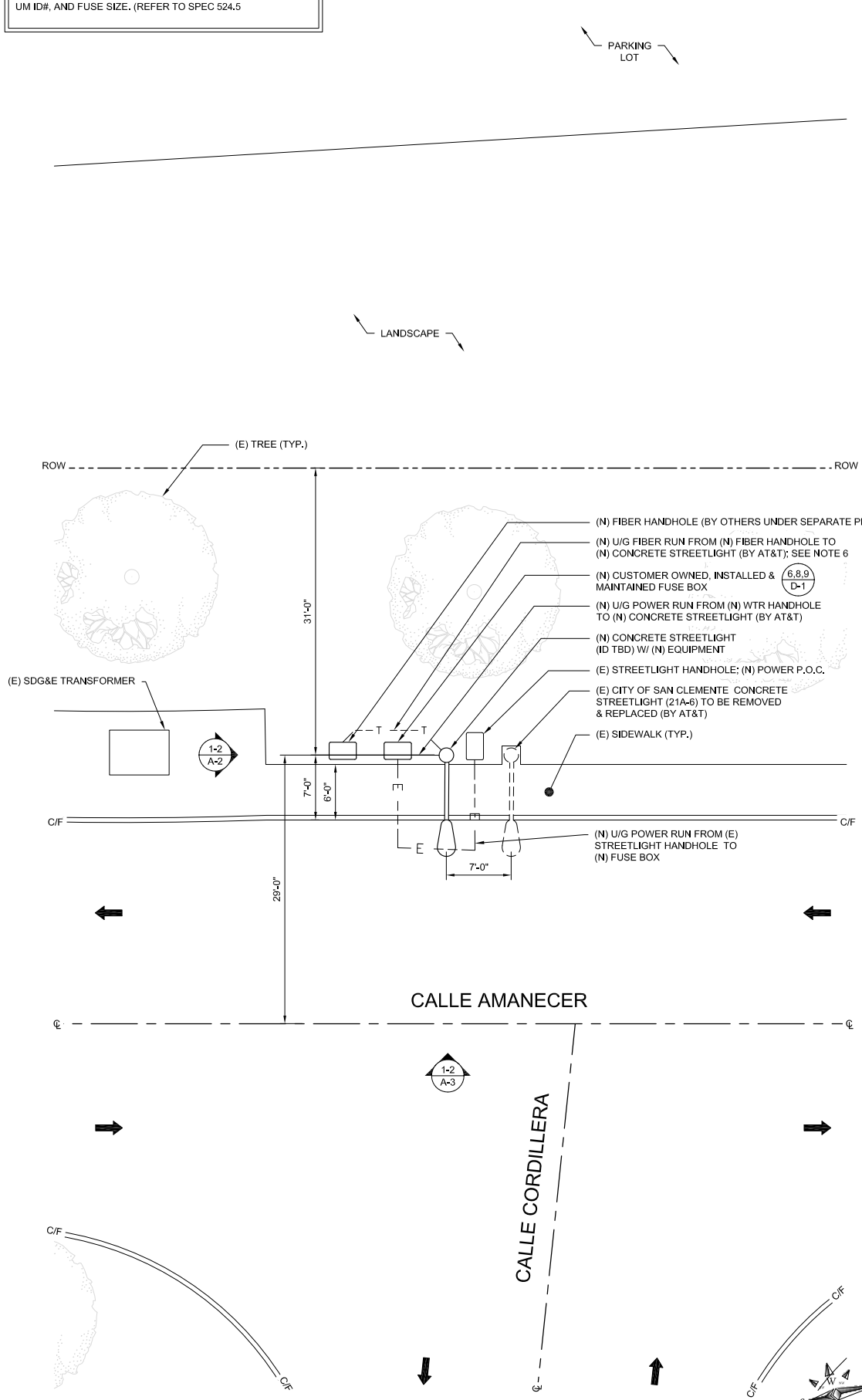
- NOTE:
1. IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.
 2. UTILITY DESIGN & RUNS ARE PRELIMINARY, PENDING FINAL DESIGN FROM UTILITY PROVIDERS.
 3. CONTRACTORS TO VERIFY SUB STRUCTURE LOCATIONS PRIOR TO ANY EXCAVATION.
 4. ALL CONDUCTORS/ WIRES & CONDUIT, SHALL BE INSTALLED IN A NEAT & TIDY FASHION. ALL EXCESS WIRE SLACK IS TO BE REMOVED & HIDDEN AS MUCH AS POSSIBLE.
 5. ALL NEWLY INSTALLED EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING POLE, & OR SURROUNDINGS UNLESS PROHIBITED PER MANUFACTURER.
 6. NEW FIBER CONDUIT TO BE STUBBED OUT OF NEW POLE FOOTING BY APPROX. 2'-0".



SITE PLAN

24"x36" SCALE: 1" = 20'-0"
 11"x17" SCALE: 1" = 40'-0"

- NOTE: PERMANENTLY INSTALL AN IDENTIFICATION PLAQUE ON FUSE BOX INDICATING CUSTOMER NAME, SITE ADDRESS, UM ID#, AND FUSE SIZE. (REFER TO SPEC 524.5)



ENLARGED SITE PLAN

24"x36" SCALE: 1/8" = 1'-0"
 11"x17" SCALE: 1/16" = 1'-0"



DRAWN BY: EG
 CHECKED BY: MM

REV	DATE	DESCRIPTION
C	05/21/2019	REVISION
B	02/05/2019	100% CONSTRUCTION
A	01/21/2019	90% CONSTRUCTION

DATE SIGNED: 2/14/2019

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

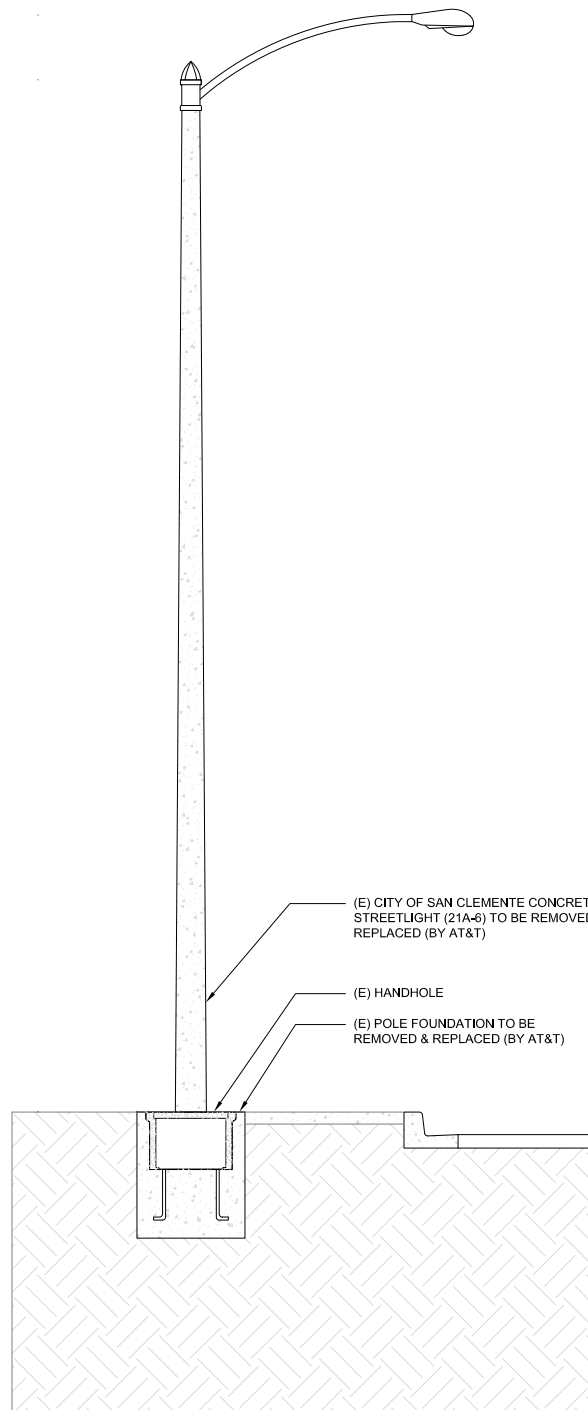
SITE ID: MSVJ1 01A
948 1/3 CALLE AMANE CER
SAN CLEMENTE, CA 92673

SHEET TITLE
SITE PLAN

SHEET NUMBER
A-1

T/O OF (E) LUMINAIRE
30'-6" A.G.L.

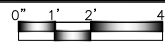
T/O OF (E) POLE
28'-8" A.G.L.



(E) GROUND LEVEL
0'-0" A.G.L.

EXISTING SOUTH ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"



2

NOTES:
1. ANTENNA AND SHROUD TO BE PAINTED TO MATCH TEXTURE AND COLOR OF NEW POLE.

T/O OF (N) ANTENNA
34'-9" A.G.L.

C/L OF (N) ANTENNA
33'-8" A.G.L.

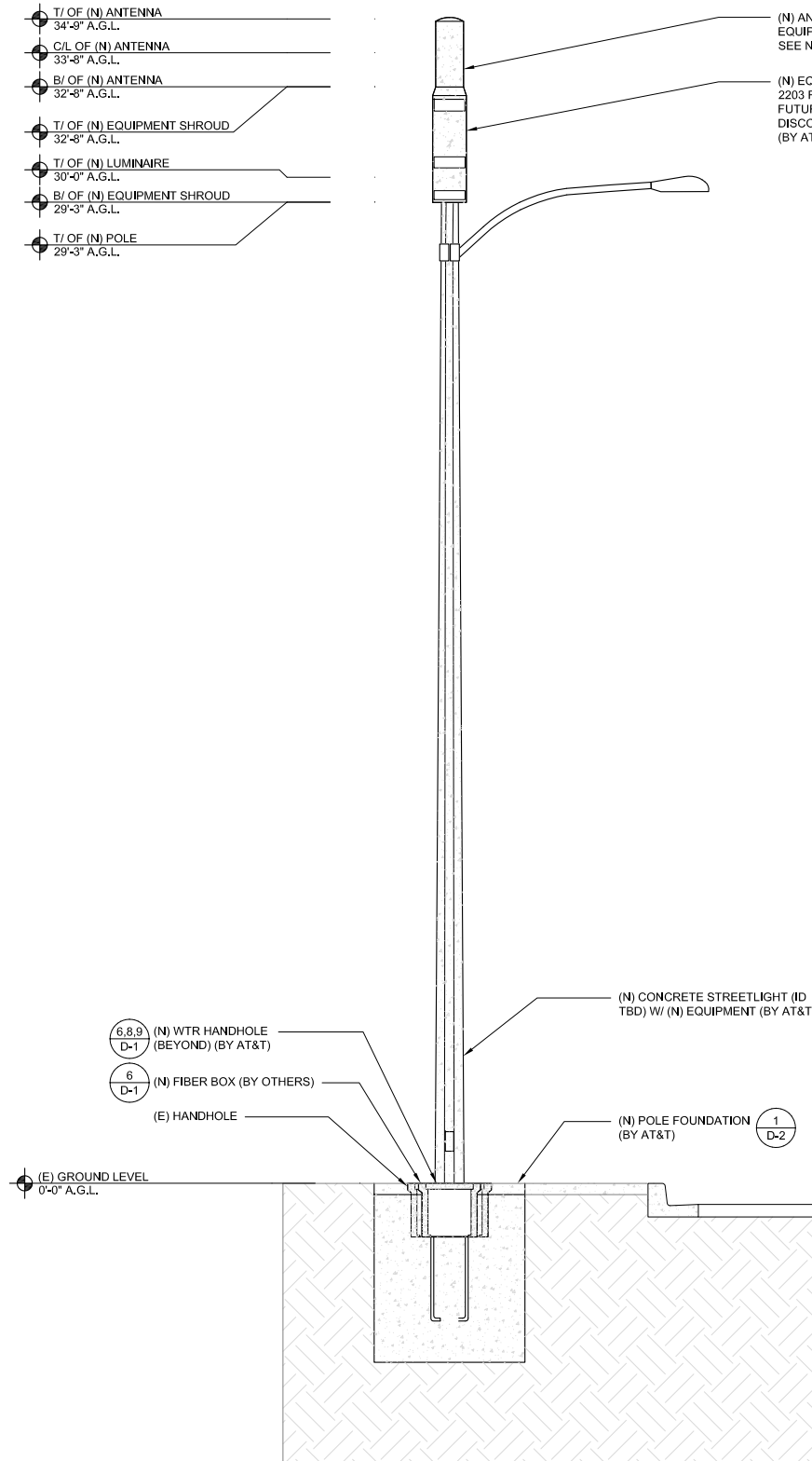
B/O OF (N) ANTENNA
32'-8" A.G.L.

T/O OF (N) EQUIPMENT SHROUD
32'-8" A.G.L.

T/O OF (N) LUMINAIRE
30'-0" A.G.L.

B/O OF (N) EQUIPMENT SHROUD
29'-3" A.G.L.

T/O OF (N) POLE
29'-3" A.G.L.



(N) ANTENNA MOUNTED ON (N) EQUIPMENT SHROUD (BY AT&T), SEE NOTE 1 (1 D-1)

(N) EQUIPMENT SHROUD W/ (2) (N) AT&T 2203 RADIO, (1) (N) 2205 RADIOS (1) FUTURE 2205 RADIO & (1) (N) RAYCAP DISCONNECT SWITCH WITHIN SHROUD (BY AT&T) (2-5 D-1)

6,8,9 (N) WTR HANDHOLE (BEYOND) (BY AT&T) (D-1)

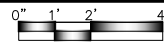
6 (N) FIBER BOX (BY OTHERS) (D-1)

(E) HANDHOLE

(E) GROUND LEVEL
0'-0" A.G.L.

NEW SOUTH ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"



1



330 COMMERCE, STE. 200
IRVINE, CA 92602



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

DRAWN BY: EG

CHECKED BY: MM

REV	DATE	DESCRIPTION
C	05/21/2019	REVISION
B	02/05/2019	100% CONSTRUCTION
A	01/21/2019	90% CONSTRUCTION



DATE SIGNED: 2/14/2019

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

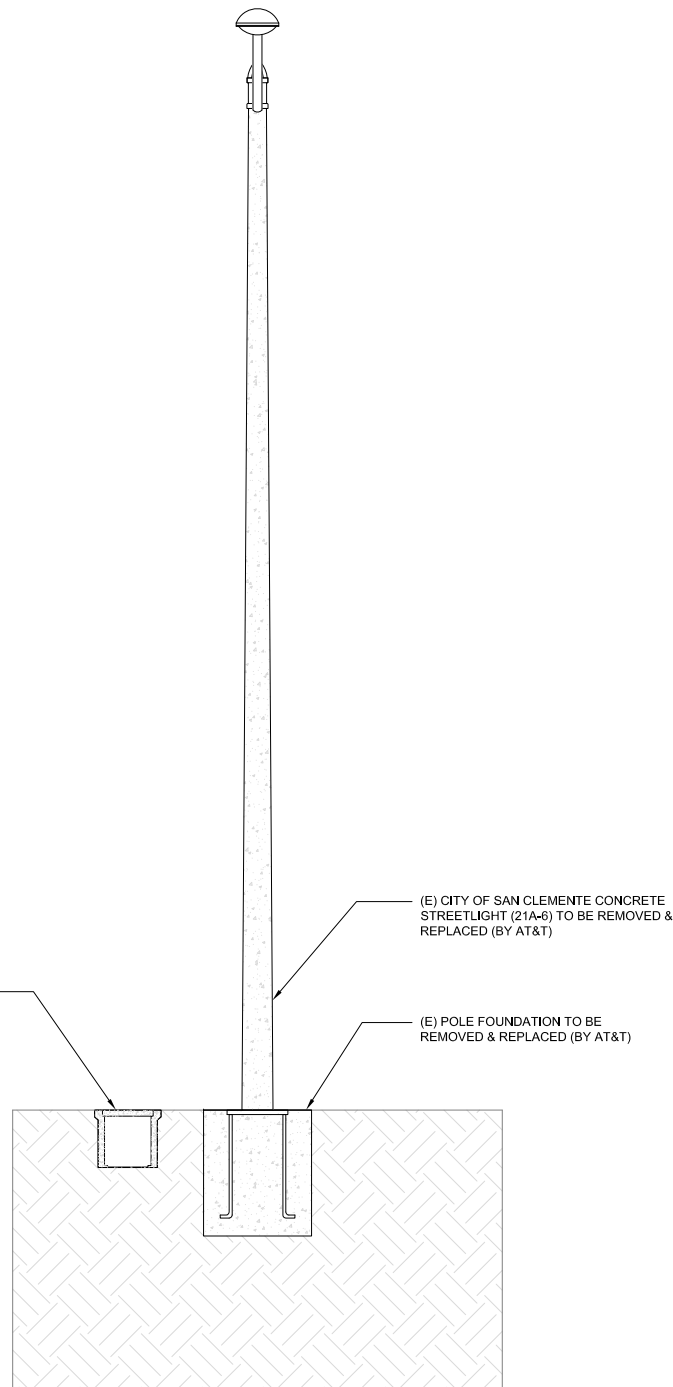
SITE ID: MSVJ1 01A
948 1/3 CALLE AMANECER
SAN CLEMENTE, CA 92673

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-2

T/ OF (E) LUMINAIRE
30'-6" A.G.L.

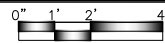
T/ OF (E) POLE
28'-8" A.G.L.



(E) GROUND LEVEL
0'-0" A.G.L.

EXISTING EAST ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"



2

NOTES:
1. ANTENNA AND SHROUD TO BE PAINTED TO MATCH TEXTURE AND COLOR OF NEW POLE.

T/ OF (N) ANTENNA
34'-9" A.G.L.

C/L OF (N) ANTENNA
33'-8" A.G.L.

B/ OF (N) ANTENNA
32'-8" A.G.L.

T/ OF (N) EQUIPMENT SHROUD
32'-8" A.G.L.

T/ OF (N) LUMINAIRE
30'-0" A.G.L.

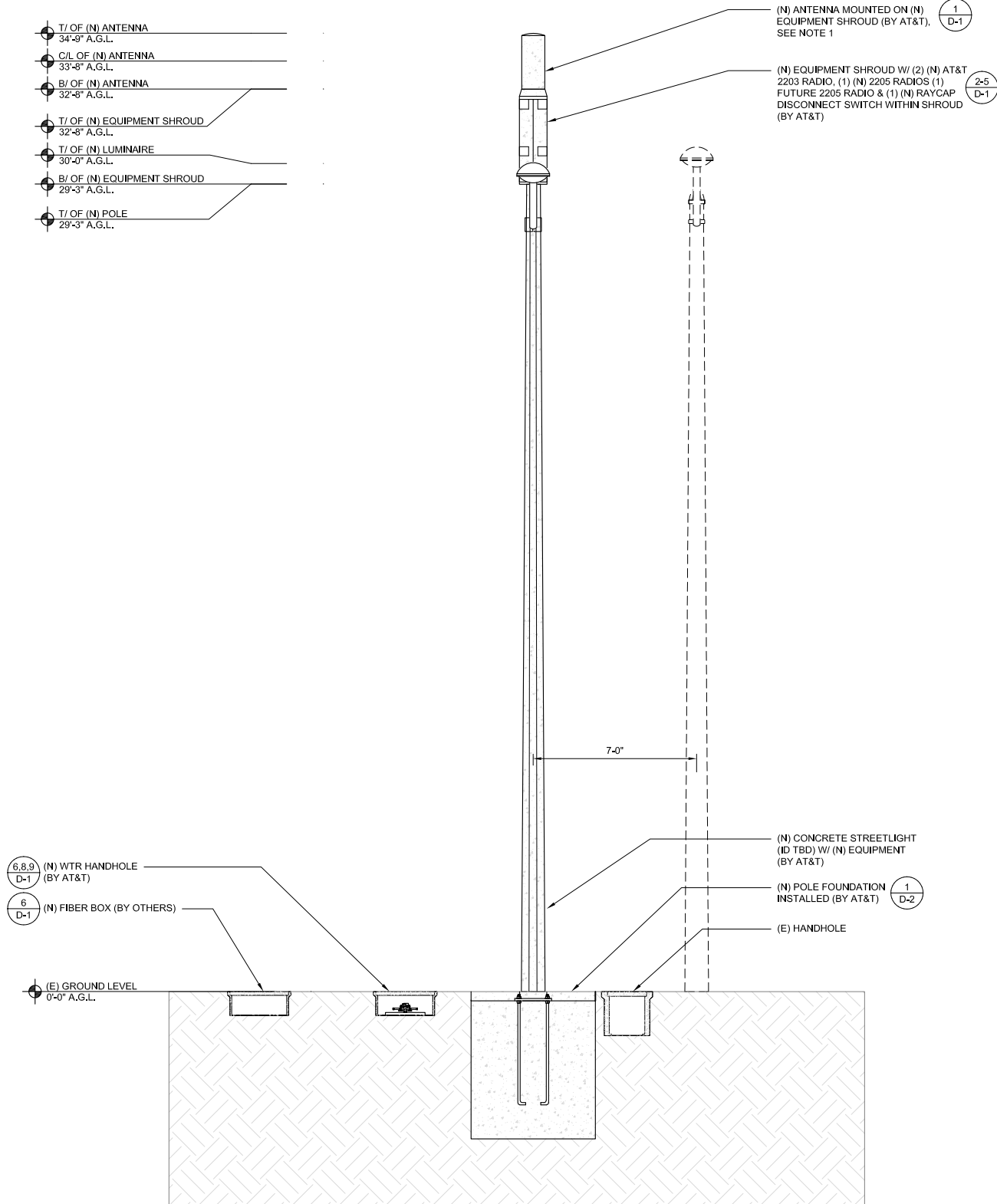
B/ OF (N) EQUIPMENT SHROUD
29'-3" A.G.L.

T/ OF (N) POLE
29'-3" A.G.L.

6.8.9 (N) WTR HANDHOLE
D-1 (BY AT&T)

6 (N) FIBER BOX (BY OTHERS)
D-1

(E) GROUND LEVEL
0'-0" A.G.L.



(N) ANTENNA MOUNTED ON (N) EQUIPMENT SHROUD (BY AT&T), SEE NOTE 1

(N) EQUIPMENT SHROUD W/ (2) (N) AT&T 2203 RADIO, (1) (N) 2205 RADIOS (1) FUTURE 2205 RADIO & (1) (N) RAYCAP DISCONNECT SWITCH WITHIN SHROUD (BY AT&T)

(N) CONCRETE STREETLIGHT (ID TBD) W/ (N) EQUIPMENT (BY AT&T)

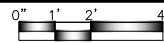
(N) POLE FOUNDATION INSTALLED (BY AT&T)

(E) HANDHOLE

7'-0"

1 D-2

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"



1



330 COMMERCE, STE. 200
IRVINE, CA 92602



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

DRAWN BY: EG

CHECKED BY: MM

REV	DATE	DESCRIPTION
C	05/21/2019	REVISION
B	02/05/2019	100% CONSTRUCTION
A	01/21/2019	90% CONSTRUCTION



DATE SIGNED: 2/14/2019

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

SITE ID: MSVJ1 01A
948 1/3 CALLE AMANECER
SAN CLEMENTE, CA 92673

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-3



DRAWN BY: EG
 CHECKED BY: MM

REV	DATE	DESCRIPTION
C	05/21/2019	REVISION
B	02/05/2019	100% CONSTRUCTION
A	01/21/2019	90% CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
 DONALD A. WHARTON
 C. 50547
 CIVIL
 STATE OF CALIFORNIA
 DATE SIGNED: 2/14/2019

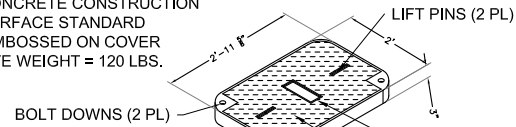
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID: MSVJ1 01A
 948 1/3 CALLE AMANECER
 SAN CLEMENTE, CA 92673

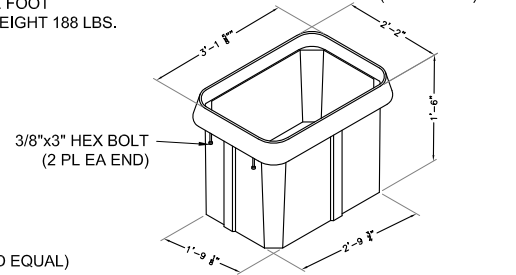
SHEET TITLE
SITE IMAGE

SHEET NUMBER
A-4

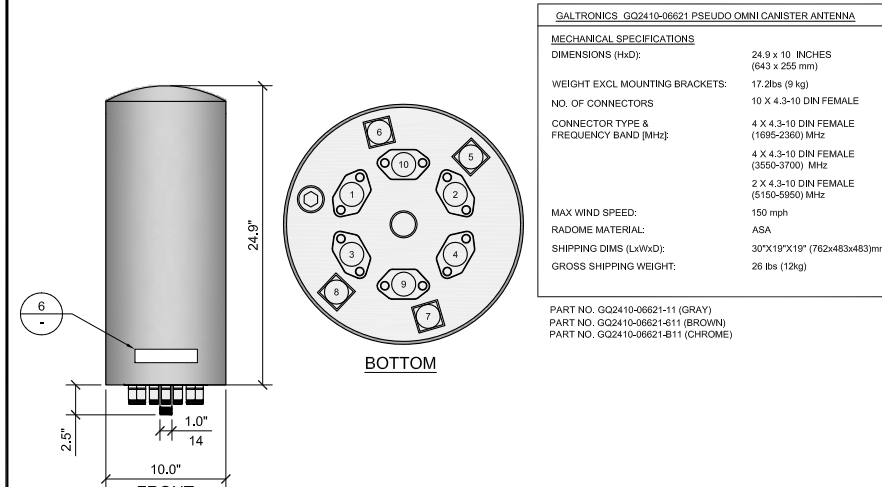
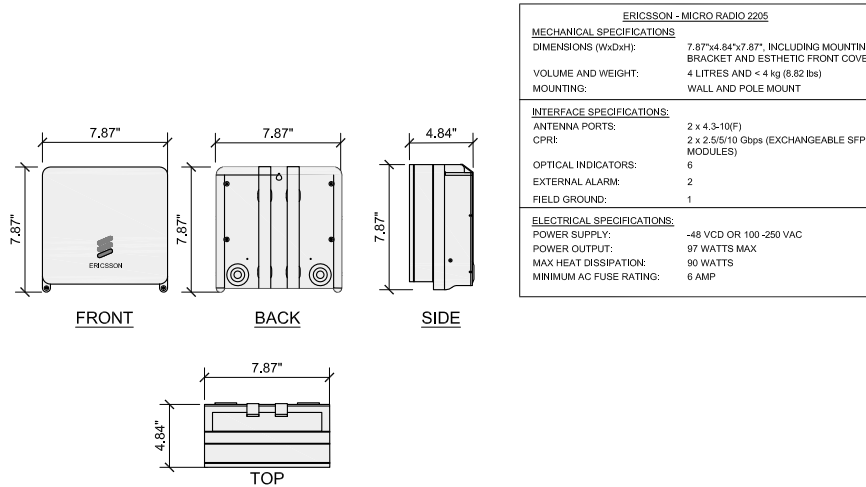
- COVER FEATURES:**
- STANDARD LOAD RATING: 20,800 LBS. WHEEL LOAD ON 10"x20" PLATE
 - 2 BOLT DOWN LOCATIONS
 - STAINLESS STEEL BOX INSERTS
 - POLYMER CONCRETE CONSTRUCTION
 - NON-SKID SURFACE STANDARD
 - 20K TO BE EMBOSSED ON COVER
 - APPROXIMATE WEIGHT = 120 LBS.



- COVER FEATURES:**
- POLYMER CONCRETE CONSTRUCTION
 - LIGHTWEIGHT
 - STACKABLE FOOT
 - APPROX. WEIGHT 188 LBS.



(OR APPROVED EQUAL)



HANDHOLE

24"x36" SCALE: NTS
11"x17" SCALE: NTS

7

ERICSSON - RADIO 2205

24"x36" SCALE: NTS
11"x17" SCALE: NTS

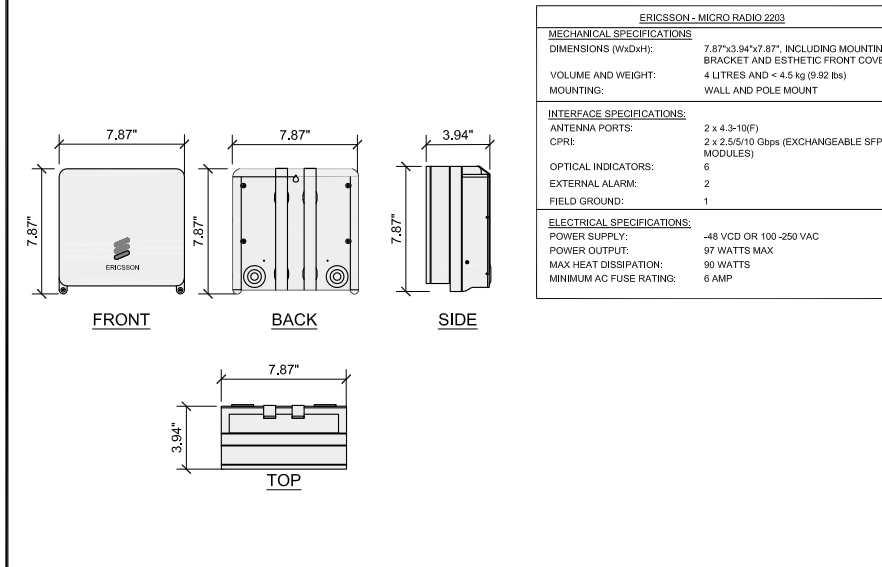
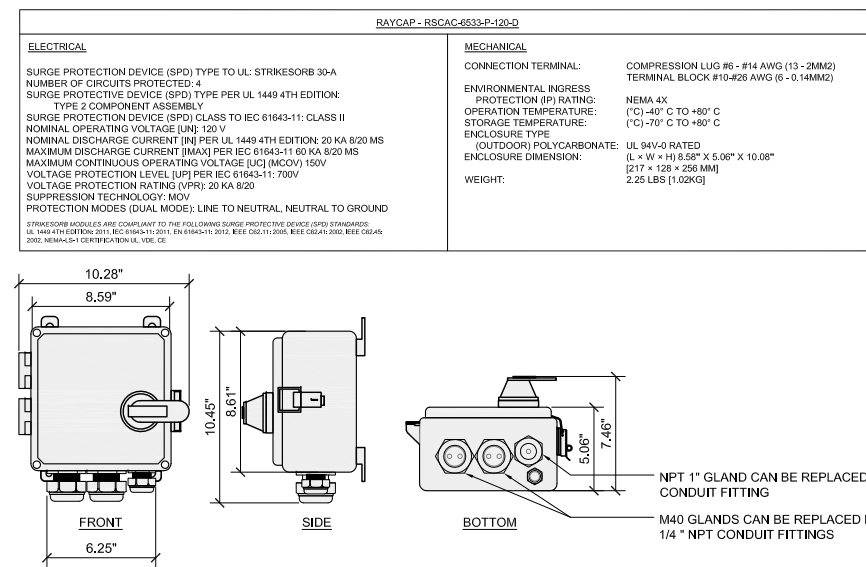
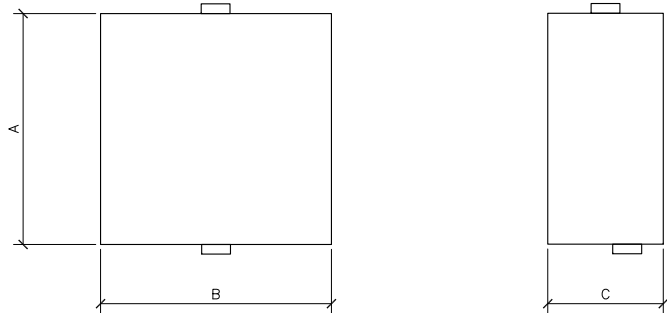
4

GALTRONICS OMNI ANTENNA

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

ELECTROMATE	
HINGED 3R ENCLOSURE	
DIMENSIONS:	
A	12"
B	12"
C	6"



DRAWN BY: EG
CHECKED BY: MM

REV	DATE	DESCRIPTION
C	05/21/2019	REVISION
B	02/05/2019	100% CONSTRUCTION
A	01/21/2019	90% CONSTRUCTION



DATE SIGNED: 2/14/2019

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

SITE ID: MSVJ1 01A
948 1/3 CALLE AMANECER
SAN CLEMENTE, CA 92673

SHEET TITLE
DETAILS

SHEET NUMBER
D-1

SDG&E UN-METERED FUSED PANEL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

8

RAYCAP DISCONNECT

24"x36" SCALE: NTS
11"x17" SCALE: NTS

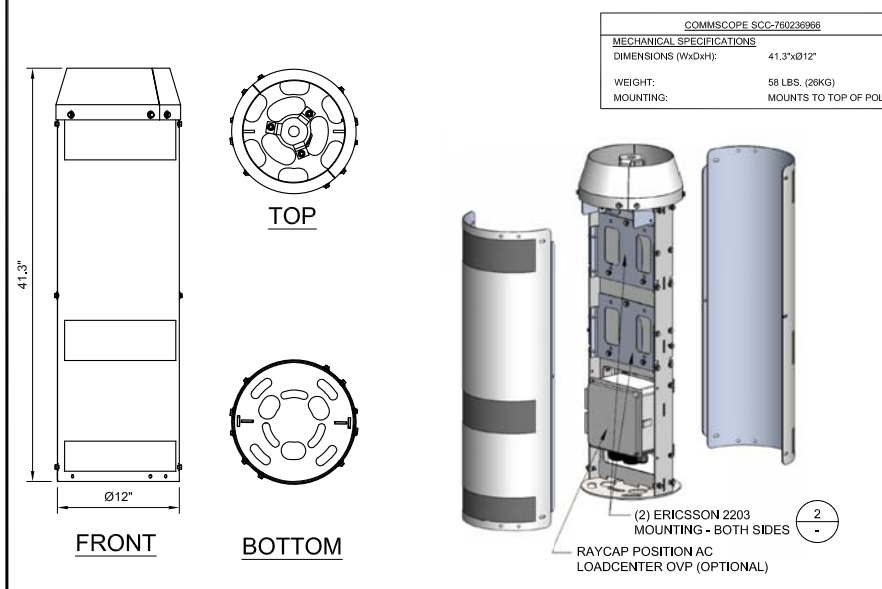
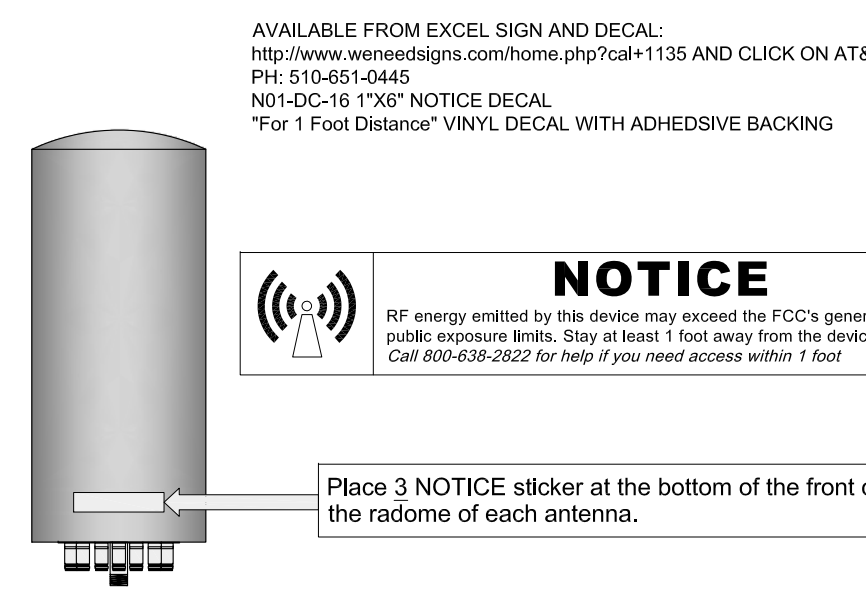
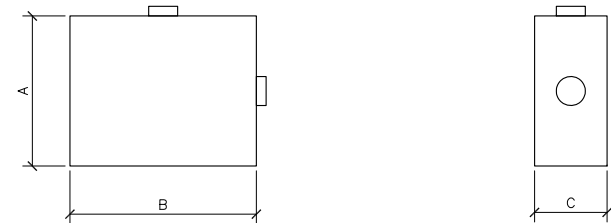
5

ERICSSON - RADIO 2203

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

SQUARE-D	
HINGED 3R ENCLOSURE # D221NRB	
DIMENSIONS:	
A	7.75"
B	9.63"
C	3.75"



AT&T MOBILITY FUSED DISCONNECT

24"x36" SCALE: NTS
11"x17" SCALE: NTS

9

OMNI ANTENNA DISCLAIMER LABEL

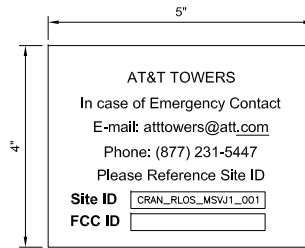
24"x36" SCALE: NTS
11"x17" SCALE: NTS

6

EQUIPMENT SHROUD

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3



OWNER / OPERATOR NOTE:
 SITE ID LABEL TO BE AFFIXED AT OR NEAR THE POINT OF POWER CONNECTION WITH IZE5241 LABELING TAPE OR EQUIVALENT BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH EXTRA-STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER. TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT OF 1/2".

EMERGENCY CONTACT SIGN

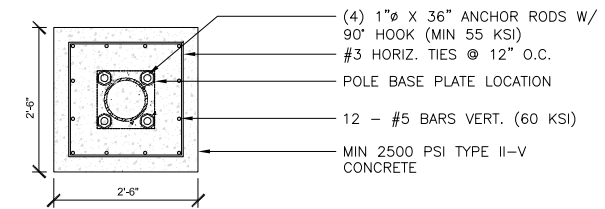
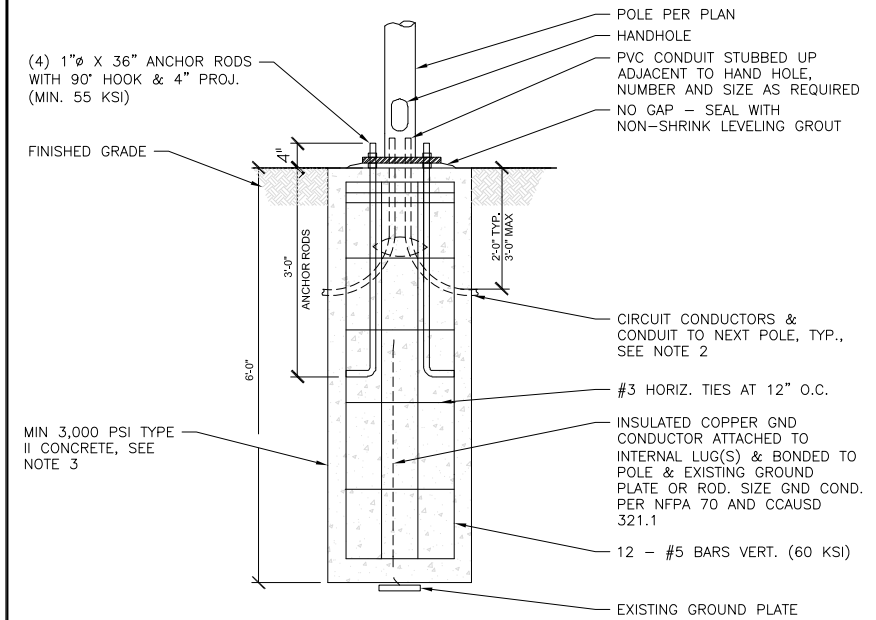


ANTENNA SIGNAGE:
 ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE
 ON METAL POLES - ADHESIVE VINYL OR PLACARD STRAPPED WITH SS TIES
 ON CONCRETE / COMPOSITE - PLACARD STRAPPED WITH SS TIES
SIGN PLACEMENT:
 AFFIX TO THE STRUCTURE 3-4' BELOW THE COMMERCIAL RF ANTENNA(S)
 SIZE APPROX. 8" x 5"

ANTENNA SIGNAGE

NOTES:

- THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION.
- FOR FIBER CONDUIT, STUB OUT FROM FOUNDATION AWAY FROM STREET SIDE FOR FUTURE FIBER HANDHOLE INSTALLATION.
- WHERE KNOWN HIGH SULFATE CONTENT EXISTS IN SOIL, USE TYPE V CEMENT.



NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

5

POLE MOUNTED SIGNS

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

POLE FOUNDATION

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

6

NOT USED

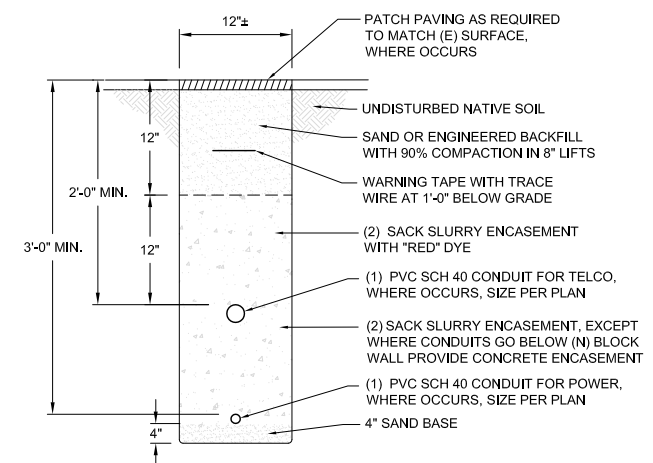
24"x36" SCALE: NTS
11"x17" SCALE: NTS

4

TRENCH DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2



330 COMMERCE, STE. 200
IRVINE, CA 92602



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

DRAWN BY: EG

CHECKED BY: MM

REV	DATE	DESCRIPTION
C	05/21/2019	REVISION
B	02/05/2019	100% CONSTRUCTION
A	01/21/2019	90% CONSTRUCTION



DATE SIGNED: 2/14/2019

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

SITE ID: MSVJ1 01A
948 1/3 CALLE AMANECER
SAN CLEMENTE, CA 92673

SHEET TITLE

DETAILS

SHEET NUMBER

D-2



330 COMMERCE, STE. 200
IRVINE, CA 92602



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

DRAWN BY: EG

CHECKED BY: MM

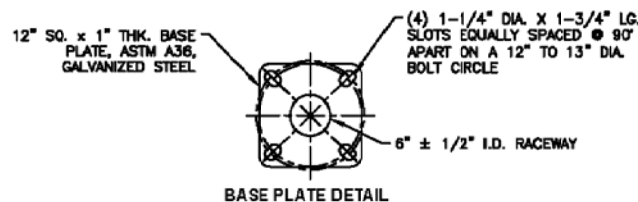
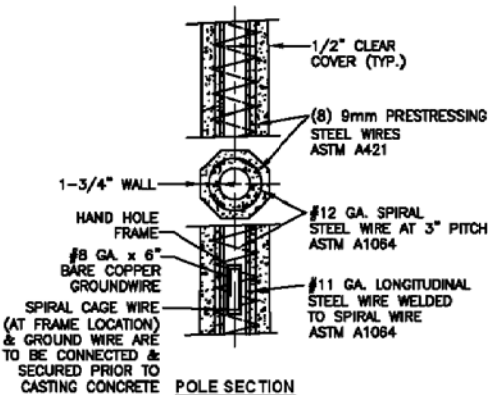
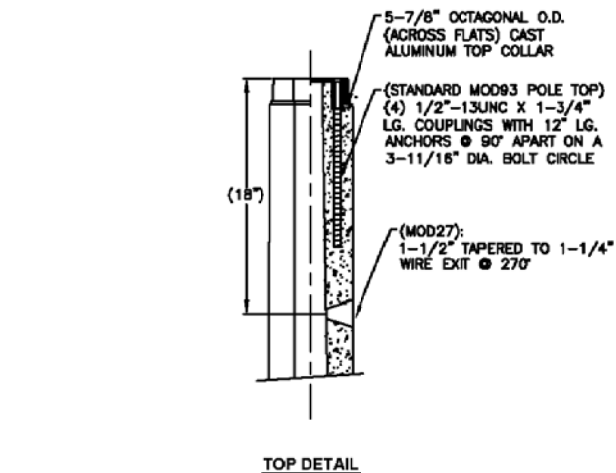
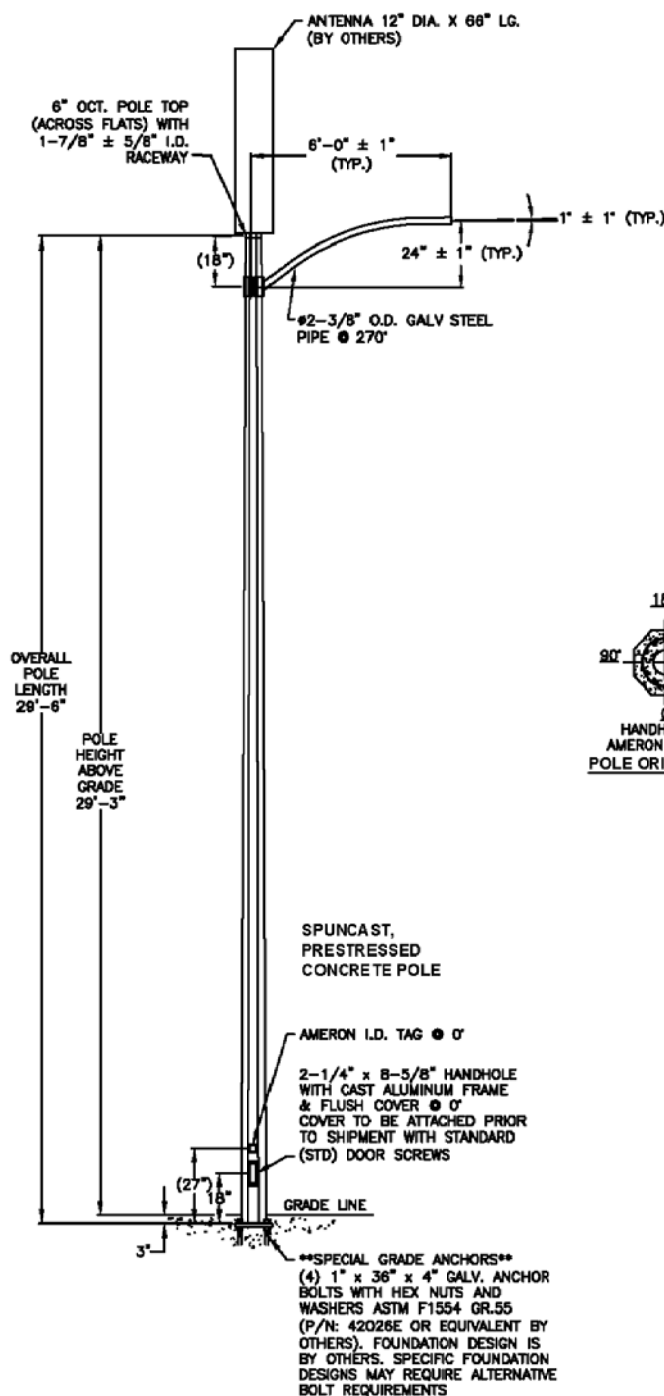
REV	DATE	DESCRIPTION
C	05/21/2019	REVISION
B	02/05/2019	100% CONSTRUCTION
A	01/21/2019	90% CONSTRUCTION

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

SITE ID: MSVJ1 01A
948 1/3 CALLE AMANECER
SAN CLEMENTE, CA 92673

SHEET TITLE
POLE DETAILS

SHEET NUMBER
S-1



REV.	DATE	DESCRIPTION	DRN.	APPR.

"F" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO.
COATING	N	
HH COVER	45209	
DOOR SCRS	STD	
MISC. MOD	MODFE	NOTE #8

"P" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO.
MIX	B1	
FINISH	3	
BASEPLATE	62470E	
COLLAR	65832E	OCT
POLE TOP CON.	MOD93	
CAST-IN	MOD27	
STRUCT MOD	MODDCI	NOTE #9

CENTRECON BASE PLATE OCTAGONAL POLES

POLE DESIGN-NATION	POLE HEIGHT ABOVE GRADE	OVERALL POLE LENGTH	BOLT CIRCLE	BASE O.D.	ULTIMATE G.L. MOMENT (ft.-lbs.)	POLE WEIGHT (lbs.)
CBOX09	29'-3"	29'-6"	12-1/2"	9-7/16"	34,800	1250

- () POLES REQUIRED, EACH WITH:
 (1) 6' GALVANIZED STEEL CLAMP ON ARM ASSEMBLY (P/N: T.B.D.)
 (4) OPTIONAL 1" x 36" x 4" GR. 55 ANCHOR BOLTS (P/N: 42026E)

- NOTES:
- MIX (813N): LA BLACK & WHITE, EXPOSED AGGREGATE FINISH WITH NO COATING.
 - ASTM C-150 TYPE III GRAY CEMENT.
 - f_c @ 28 DAYS=7,000 PSI, USING SPUN CYLINDER TEST.
 - f_c @ 28 DAYS=5,000 PSI, USING ASTM C-31 CYLINDER TEST.
 - POLES MANUFACTURED TO ASTM C-1089-13 SPECIFICATIONS.
 - PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
 - PRESTRESSED WITH (8) 9 MM DIA A-421 PRESTRESSING TENDONS.
 - MODFE: POLE BOTTOM PREPARATION FOR FREEZING OR CORROSIVE COASTAL ENVIRONMENTS; SEE DOCUMENTATION.
 - MODDCI: CORROSION INHIBITOR ADMIXTURE MODIFICATION.
 - THE POLE DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY (1) TOP MOUNTED ANTENNA (NOT TO EXCEED 6.1 SQ FT EPA, 115 LBS) & (1) SINGLE CLAMP ON ARM (NOT TO EXCEED 6' LENGTH, 2.5 SQ. FT. EPA, 35 POUNDS) WITH THE ARM HOLDING A DOWNWARD FACING AREA OR PENDANT LUMINAIRE (NOT TO EXCEED 2.5 SQ. FT. EPA, 50 POUNDS); THE POLE DEPICTED IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY THE LMA, LUMINAIRE & ANTENNA AS DESIGNED PER THE ASCE 7-10 USING A 110 MPH WIND ZONE (3-SECOND GUSTS), RISK CATEGORY 2, NON-BUILDING STRUCTURE, EXPOSURE C, SITE CLASS D, WITH SURFACE ROUGHNESS CATEGORY C, WITH NO HILL NOR ESCARPMENT CONSIDERED. SEISMIC IS PER ASCE 7-10, CALIFORNIA BUILDING CODE USING A MAXIMUM S_s = 1.549 & S₁ = 0.578. PLEASE CONTACT & ADVISE MANUFACTURER IF INTENDED LOADING EXCEEDS THESE VALUES.

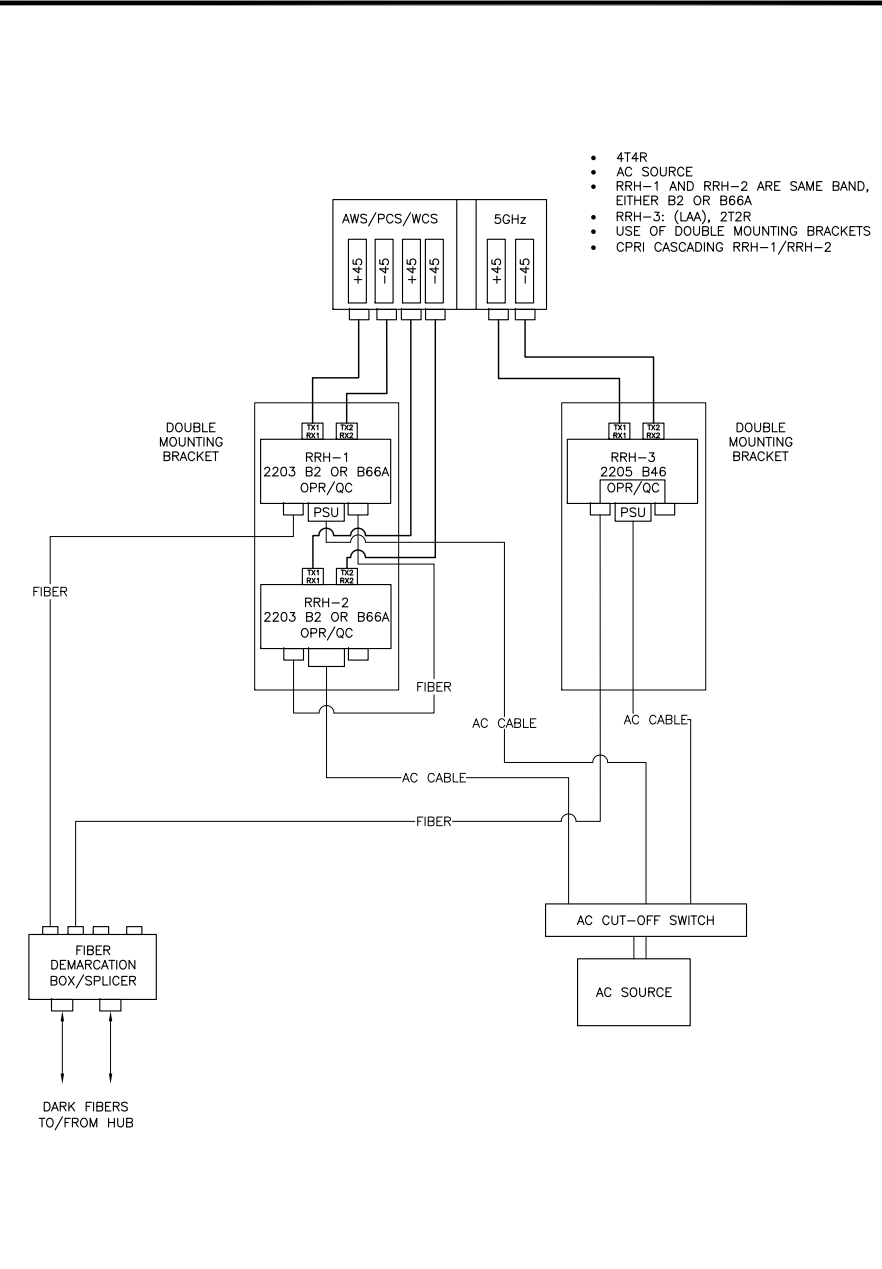
APPROVED BY _____ DATE _____

M SQUARED WIRELESS
 HUNTINGTON BEACH, CA
 CBOX09 POLE WITH 6' ARM ASSEMBLY

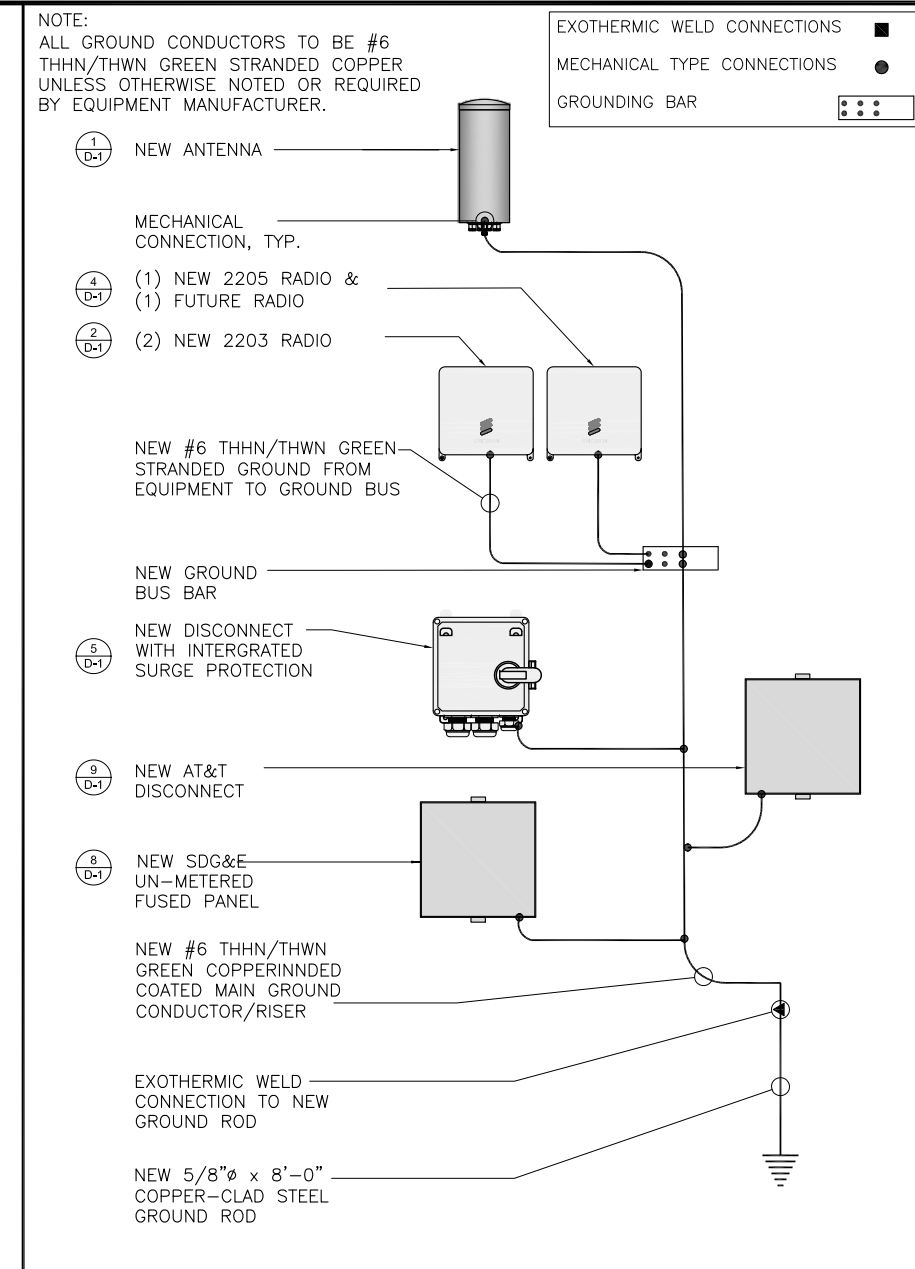
THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO NATIONAL OILWELL VARCO. IT SHALL NOT BE REPRODUCED, USED OR DISCLOSED TO ANYONE WITHOUT THE PRIOR WRITTEN PERMISSION OF NATIONAL OILWELL VARCO.

	DRAWN: A.F.	DATE: 12/12/2018	
	SCALE: N.T.S.	DWG. NO. 1812-022	REV -

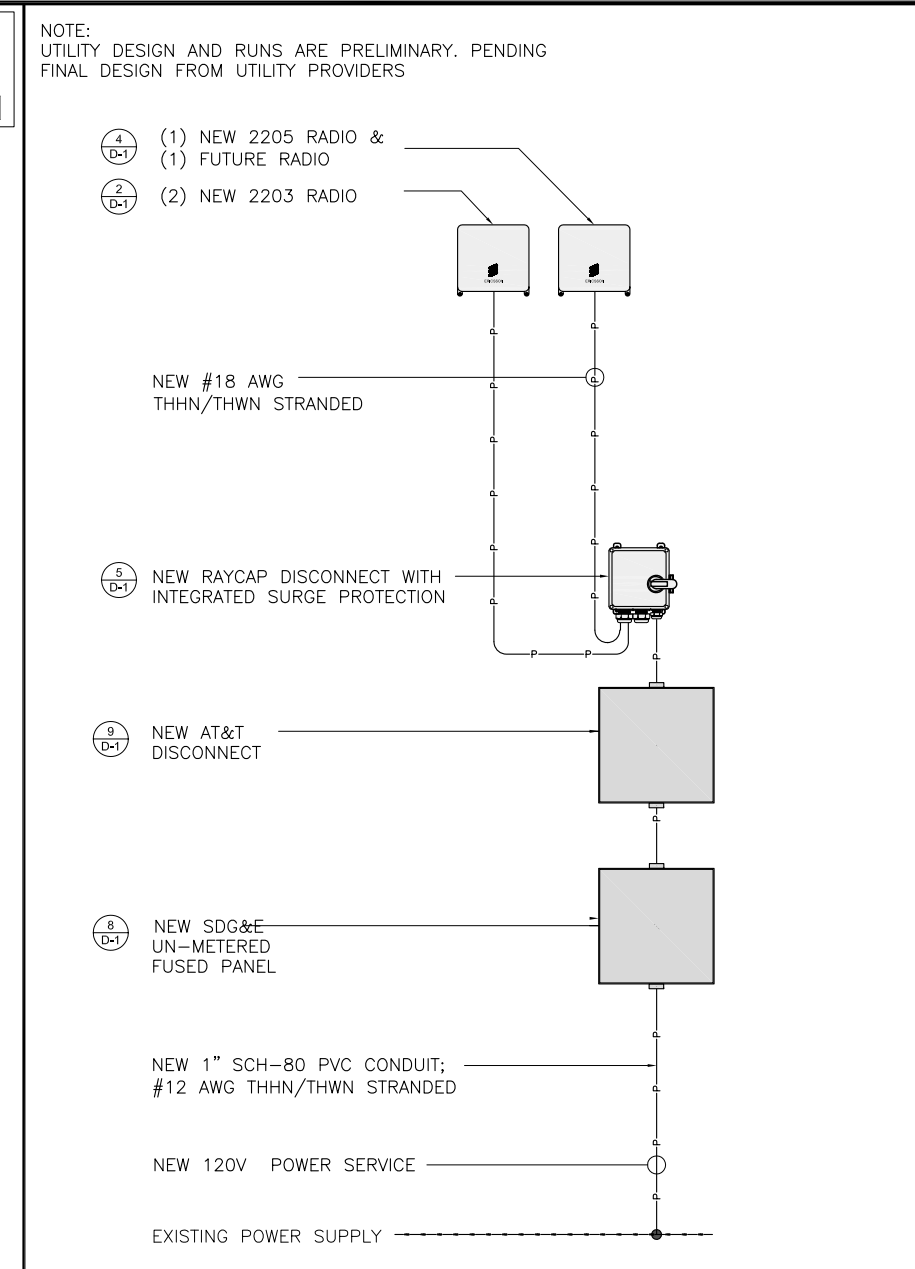
COMPLIANCE TO ANY CODE NOT EXPLICITLY LISTED ON THIS DRAWING IS NOT GUARANTEED. PLEASE CONTACT NATIONAL OILWELL VARCO IF YOU HAVE SPECIFIC CODE REQUIREMENTS.



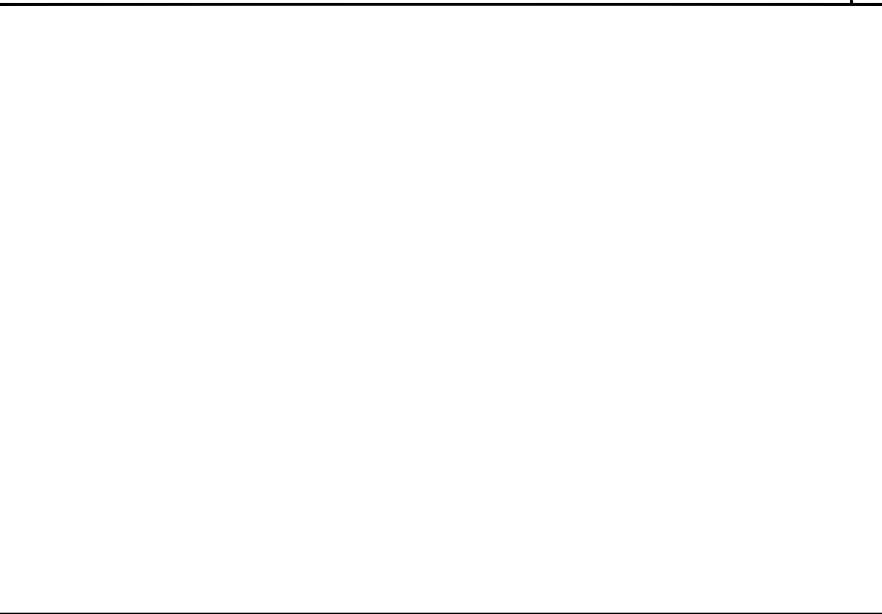
PICO PLUMBING DIAGRAM 24"x36" SCALE: NTS 11"x17" SCALE: NTS 5



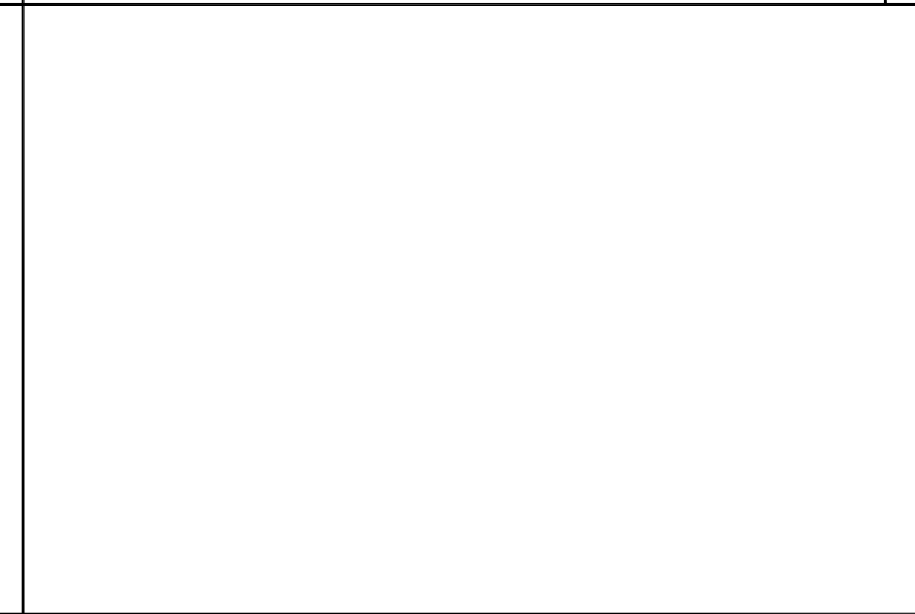
GROUNDING SCHEMATIC 24"x36" SCALE: NTS 11"x17" SCALE: NTS 3



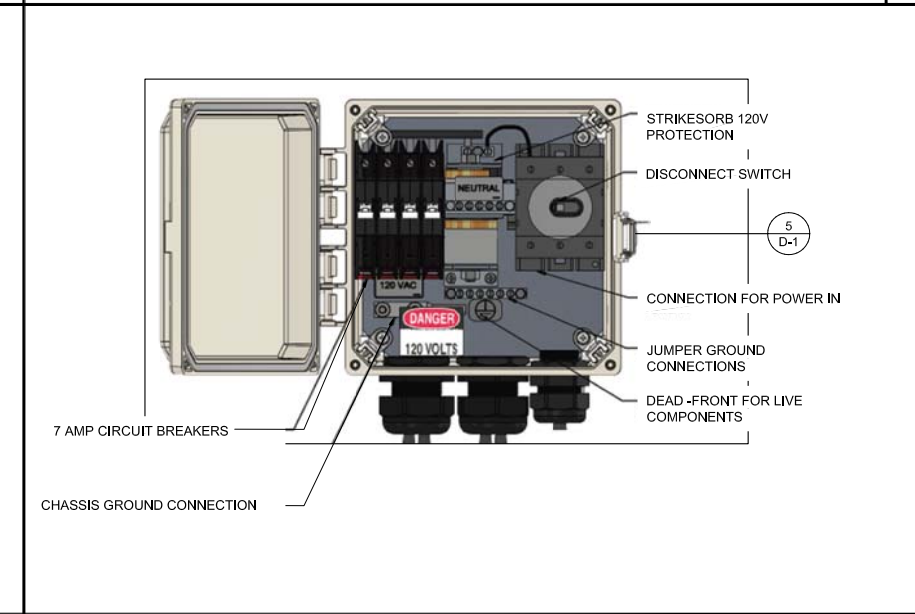
SINGLE LINE DIAGRAM 24"x36" SCALE: NTS 11"x17" SCALE: NTS 1



NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 6



NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 4



BREAKER SCHEDULE 24"x36" SCALE: NTS 11"x17" SCALE: NTS 2



DRAWN BY: EG
 CHECKED BY: MM

REV	DATE	DESCRIPTION
C	05/21/2019	REVISION
B	02/05/2019	100% CONSTRUCTION
A	01/21/2019	90% CONSTRUCTION

DATE SIGNED: 2/14/2019

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

SITE ID: MSVJ1 01A
 948 1/3 CALLE AMANECER
 SAN CLEMENTE, CA 92673

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-1