



Caring for Your Coast

Gary Jones
Director

Kerry Silverstrom
Chief Deputy

John Kelly
Deputy Director

Brock Ladewig
Deputy Director

MARINA DEL REY DESIGN CONTROL BOARD AGENDA

SPECIAL MEETING

Tuesday, April 10, 2018, 1:30 p.m.

Del Rey Yacht Club
13900 Palawan Way
Marina del Rey, CA 90292

Audio

1. **Call to Order, Action on Absences, Pledge of Allegiance, and Order of Agenda**
2. **Public Comment**
This is the opportunity for members of the public to address the Board on items that are not on the posted agenda, provided that the subject matter is within the jurisdiction of the Board. Speakers are reminded of the three-minute time limitation.
3. **Consent Agenda**
The Chair may entertain a motion by a Board member at the beginning of the meeting to approve certain non-controversial agenda items as consent agenda items unless held by a Board member or member(s) of the public for discussion or separate action.
4. **New Business**
 - ☺) A. Parcel 75 – Del Rey Professional Association / UCLA Health – DCB # 18-005 – Consideration of new sign program
 - ☺) B. Parcel 97 – Pacific Ocean Management / Café Buna – DCB # 18-006 – Consideration of new tenant signage
 - ☺) C. Parcels 27, 22, and 9 – Southern California Edison / Mobilitie – DCB # 18-007, 18-008, 18-009 - Consideration of pole mounted wireless telecommunication facilities
5. **Staff Reports**
 - A. Temporary Permits Issued by the Department
 - B. Ongoing Activities Report
 - Board of Supervisors Actions on Items Relating to Marina del Rey
 - Regional Planning Commission's Calendar
 - Coastal Commission's Calendar
 - Future Major DCB Agenda Items
 - Small Craft Harbor Commission Minutes
 - Redevelopment Project Status Report
 - Marina del Rey Signage and Gateways Master Plan
 - C. Marina del Rey Special Events



6. **Adjournment**

PLEASE NOTE

1. ADA ACCOMODATIONS: If you require reasonable accommodations or auxiliary aids and services such as material in alternate format or a sign language interpreter, please contact the ADA (Americans with Disabilities Act) Coordinator at (424) 526-7752 (Voice) or (TTY/TDD) users, please call the California Relay Service at 711. The ADA coordinator may be reached by email at rstassi@bh.lacounty.gov.

2. The Los Angeles County Board of Supervisors adopted Chapter 2.160 of the Los Angeles Code (Ord. 93-0031 ~ 2 (part), 1993), relating to lobbyists. Any person who seeks support or endorsement from the Design Control Board on any official action must certify that he/she is familiar with the requirements of this ordinance. A copy of the ordinance can be provided prior to the meeting and certification is to be made before or at the meeting.

All materials provided to the Design Control Board Members are available for public review, beginning the Friday prior to the meeting, at the **four Marina del Rey locations listed below**. The Department of Beaches and Harbors website also provides all reports and audio files from current and past meetings. Electronic copies of project submittals for Business Items referred to in this agenda will be available online for a two week period from the date of this agenda.

Please visit the Department of Beaches and Harbors Website Address at <http://marinadelrey.lacounty.gov>, or the [Design Control Board Archive](#) for more information.

Department of Beaches and Harbors
Administration Building
13837 Fiji Way
Marina del Rey, CA 90292

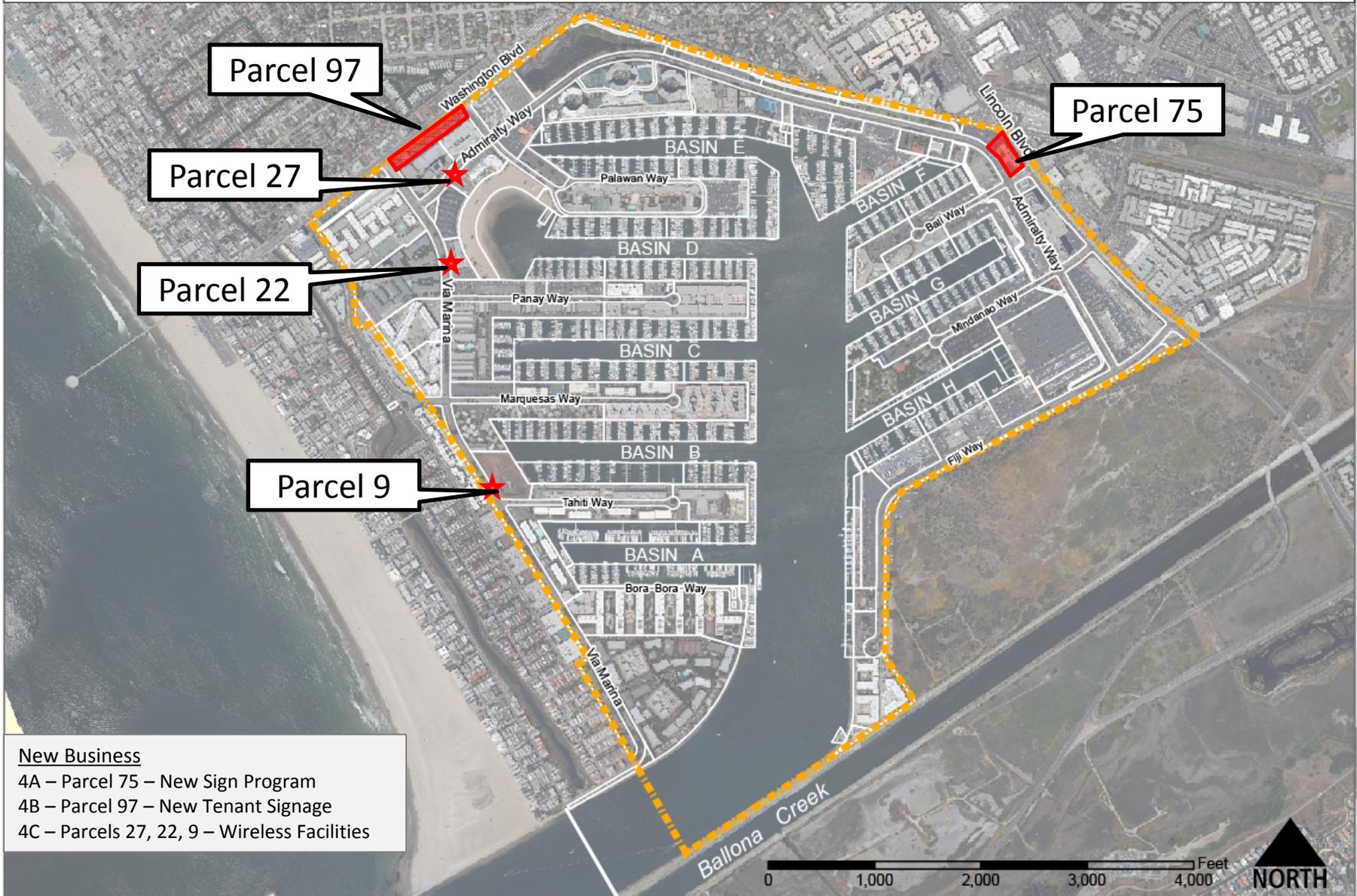
MdR Visitors & Information Center
4701 Admiralty Way
Marina del Rey, CA 90292

Burton Chace Park Community Room
13650 Mindanao Way
Marina del Rey, CA 90292

Lloyd Taber-Marina del Rey Library
4533 Admiralty Way
Marina del Rey, CA 90292



Location of April 10, 2018 DCB Items



New Business

- 4A – Parcel 75 – New Sign Program
- 4B – Parcel 97 – New Tenant Signage
- 4C – Parcels 27, 22, 9 – Wireless Facilities



Caring for Your Coast

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Deputy Director

April 4, 2018

TO: Design Control Board
FROM:  Gary Jones, Director

SUBJECT: ITEM 4A – PARCEL 75 – DEL REY PROFESSIONAL ASSOCIATION / UCLA HEALTH – DCB # 18-005 – CONSIDERATION OF NEW SIGN PROGRAM

Item 4A on your agenda is a submittal from UCLA Health (Applicant), seeking approval for a new sign plan. The project is located at 4560 Admiralty Way.

PROJECT OVERVIEW

Background

Since July 2005, your board has reviewed proposed signage for this site eight times. The focus of these meetings was to revise all signage to create a cohesive sign program. The last time your board reviewed signage for this site was January 2008, at which point you approved refacing the existing pylon sign, and directed the applicant to further refine their proposed sign program.

Existing Conditions

The Del Rey Professional Building consists of a three-story medical office building, and a one-story rotunda building utilized as a pharmacy. This site has three street frontages, which are Lincoln Boulevard, Admiralty Way, and Bali Way. The existing signage consists of wall signs on all four facades of the medical office building, one wall sign on the rotunda building, a free standing pylon sign, and other miscellaneous signage on site. There is no sign program for this complex. The existing signage has been installed incrementally overtime, resulting in signs with different fonts and sizes.

Proposed Project

The applicant proposes to establish a new sign program, which entails removing six existing wall signs, installing five new signs, and refacing one existing pylon sign. All signage on the main medical building would be replaced. The small rotunda building would keep its existing "Marina Del Rey Pharmacy" sign.

SIGNAGE

North and South Building Façades

Two identical building façade signs would be installed, one on the north façade facing the parking lot, and the other on the south façade facing Bali Way. These signs would be smaller than the existing wall signs. The proposed signs would be roughly 60 square feet,



measure 20' wide by 7'-4" tall, and be mounted 26' above grade. The signs would have two lines of text. The top line would read "UCLA Health" with 2'-6" tall letters, using font type Futura Bold Italic, in white text pushed through a PMS 279c blue cabinet, and Times New Roman in black channel letters. The second line of text would provide the address "4560 Admiralty Way" in 1'-4" tall channel letters, using font type Interstate Light in black. These signs would be made with an acrylic face and aluminum returns. The UCLA cabinet would be internally illuminated, and the "Health" text would be face lit.

West Building Façade

The proposed west building façade sign would be roughly 60 square feet and measure 32'-11" wide by 3'-4" tall. The sign would read "UCLA Health – Urgent Care" with 3'-4" tall letters, using font type Futura Bold Italic in white, pushed through a PMS 279c blue cabinet, and Times New Roman and Interstate Light in black channel letters. This sign would be made with an acrylic face and aluminum returns. The UCLA cabinet would be internally illuminated, and the "Health – Urgent Care" text would be face lit.

Directional

The applicant proposes a second smaller building façade sign on the south building façade facing Bali Way. This sign would be located on the ground level and mounted 6'-6" above grade. The sign would be 8.6 square feet and measure 1' tall by 8'-7" wide. The sign would read "LAW OFFICES" in white channel letters, using Interstate Light font. This sign would not be illuminated.

The Marina Del Rey Revised Permanent Sign Controls allows for only one wall sign per tenant space, which the applicant is proposing with the larger "UCLA Health" sign. The Sign Controls does allow for additional "directional" signs as needed. The applicant is proposing this "LAW OFFICES" sign as a directional sign, used to identify the law offices on site. It is at your board's discretion whether to permit this as a directional sign.

Freestanding Column or Tower

This existing pylon sign is located in front of the medical building facing Admiralty Way. It stands approximately 24' tall, with an 8' wide by 12' tall double face panel. The applicant proposes to reface both sides of this sign with three rectangular panels stacked on top of each other, measuring roughly 8' wide by 4' tall. The top panel would use a translucent white acrylic face with the "UCLA Health" logo and "Urgent Care" text in a black Interstate Light font. The middle and bottom panels use a blue vinyl background with white Interstate Light text that would read "Marina Del Rey Pharmacy" and "4560 Admiralty Way". This sign would be internally lit.

Hours of illumination

All lighted signs would be illuminated from dusk until dawn each day.

STAFF REVIEW

Staff finds that the applicant has adhered to the Design Control Board's previous direction and developed a comprehensive sign program for the medical building. Staff finds that

the proposed project is consistent with the Marina del Rey Design Guidelines, and the Revised Permanent Sign Control and Regulations, with the following exception.

The applicant is requesting your Board allow the "Law Offices" sign as "directional / informational". It is under your board's discretion to determine whether this sign is needed or designed appropriately.

Staff recommends APPROVAL of DCB #18-005, subject to the following conditions:

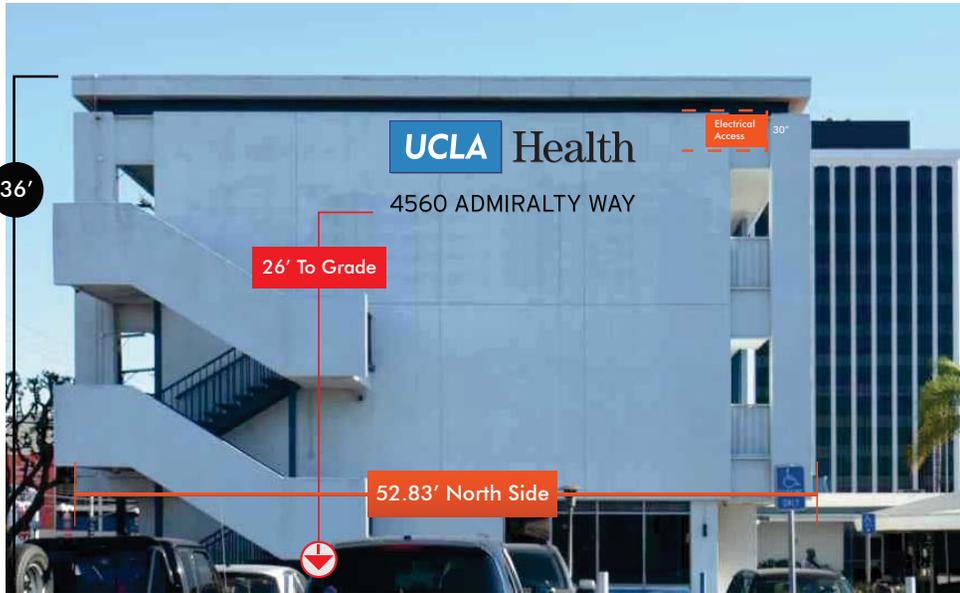
- 1) The Applicant shall obtain approval from the Department of Regional Planning.**
- 2) No change shall be made to the approved design, landscaping, hardscape, materials, or signage without written approval from the Department of Beaches and Harbors Planning Division staff.**
- 3) No substantial change shall be made to the approved design, landscaping, hardscape, materials, or signage without the written consent of the Design Control Board.**

GJ:BL:te

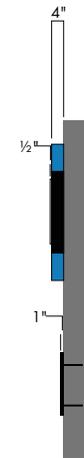
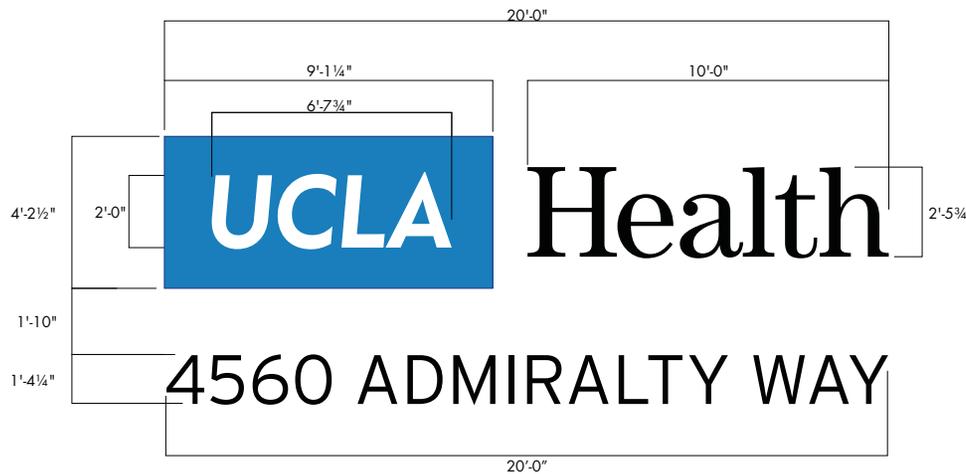


4560 Admiralty Way, Marina del Rey, CA 90292

Sign 1 - Internally Illuminated Channel Plaque W/push Thru Copy & Day/Night Trimcap Channel Letters



Dimensions
Sq. Ft. = 59.66'
Qty - 1



Colors

Faces

- Push Thru - 1/2" Translucent White Acrylic
- Routed Out Acrylic with AVERY A9503-T Tropical Blue
- Day/ Night Vinyl Black Perforated

- "Address" Black

Returns

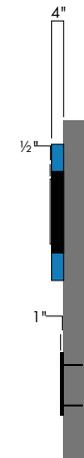
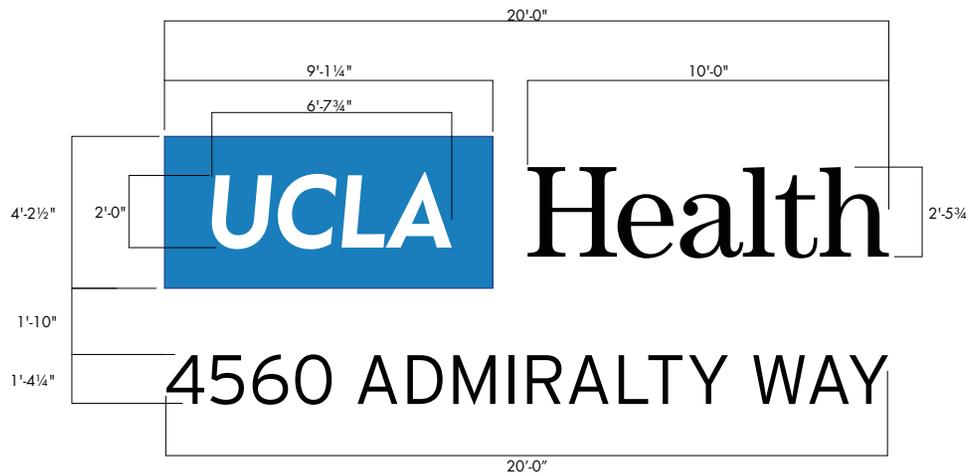
- Aluminum Returns - Painted to Match PMS 279
- Trimcap and Returns - Black
- "Address" Black

tako tyko	Project Name.	Project Address.	Account Rep.	Designer.	Date.	Revisions	Approvals:
	UCLA Health	4560 Admiralty Way, Marina del Rey, CA 90292	Eric Cielak	L. Moreno	2-20-2018		
5010 Venice Blvd. Los Angeles, CA 90019 • Ph - 323.937.4445 • Fx - 323.937.3912 • TakoTyko.com			© COPYRIGHT PROTECTED		Client	This is an original unpublished drawing prepared for you by Tako Tyko Signs and Lighting for your business. All ideas, designs, arrangements and plans indicated or represented in this drawing are owned by and the property of Tako Tyko Signs and Lighting. It is not to be shown to anyone outside of your organization nor to be reproduced, copied or exhibited in any fashion without the written permission of Tako Tyko Signs and Lighting.	Page. 2
				Salesperson			

Sign 2 - Internally Illuminated Channel Plaque W/push Thru Copy & Day/Night Trimcap Channel Letters



Dimensions
Sq. Ft. = 59.66'
Qty - 1



Colors

Faces

- Push Thru - 1/2" Translucent White Acrylic
- Routed Out Acrylic with AVERY A9503-T Tropical Blue
- Day/ Night Vinyl Black Perforated

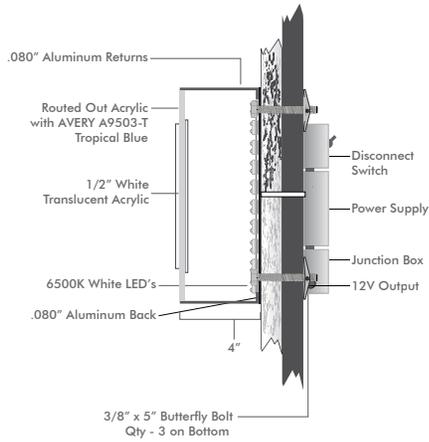
- "Address" Black

Returns

- Aluminum Returns - Painted to Match PMS 279
- Trimcap and Returns - Black
- "Address" Black

tako tyko	Project Name.	Project Address.	Account Rep.	Designer.	Date.	Revisions	Approvals:
	UCLA Health	4560 Admiralty Way, Marina del Rey, CA 90292	Eric Cielak	L. Moreno	2-20-2018		
5010 Venice Blvd. Los Angeles, CA 90019 • Ph - 323.937.4445 • Fx - 323.937.3912 • TakoTyko.com			Client		Salesperson		<p>This is an original unpublished drawing prepared for you by Tako Tyko Signs and Lighting for your business. All ideas, designs, arrangements and glass indicated or represented in this drawing are owned by and the property of Tako Tyko Signs and Lighting. It is not to be shown to anyone outside of your organization nor to be reproduced, copied or exhibited in any fashion without the written permission of Tako Tyko Signs and Lighting.</p> <p>© COPYRIGHT PROTECTED</p>

Sign 1 & 2 - Internally Illuminated Channel Plaque W/push Thru Copy & Day/Night Trimcap Channel Letters
 "UCLA" Logo - Side View



Push Through Cabinet Specs

Face: 1/4" Routed Out Acrylic Face W/ 1/2" White Acrylic push thru and Vinyl Overlays

Return: .080" Aluminum
 Back: .080" ALuminum

Illumination

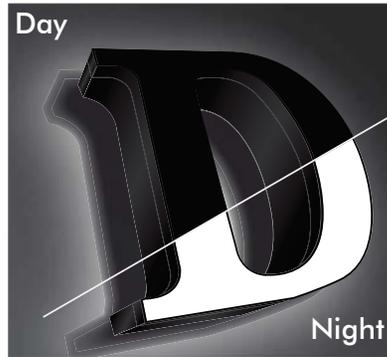
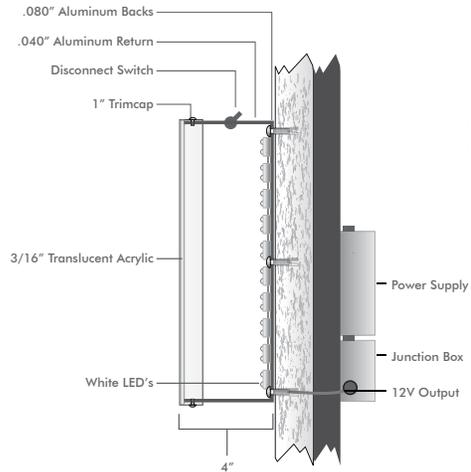
Type: LED
 Transformer: Self Contained
 Input - 120-220 VAV -0.26-.063 Amp
 Output - 2.1 - 3.3 VDC - 2 x 5 Amp Circuit

Mounting

3/8" X 8" All Thread with Washers and Nuts - Qty - 4 on Top
 3/8" x 5" Butterfly Bolt - Qty - 3 on Bottom



"Health" - Side View



Channel Letter Specs

Face: 3/16 Translucent Acrylic
 Trimcap - 1"
 Return: .040" Aluminum
 Back: .080" ALuminum

Illumination

Type: LED
 Transformer: Self Contained
 Input - 120-220 VAV -0.26-.063 Amp
 Output - 2.1 - 3.3 VDC - 2 x 5 Amp Circuit

Mounting

Flex Connectors, Flex Conduit
 6-8 of 1/4" x 1 1/2" Screws and Shields



"Address" - Side View



Project Name.	Project Address.	Account Rep.	Designer.	Date.
UCLA Health	4560 Admiralty Way, Marina del Rey, CA 90292	Eric Cielak	L. Moreno	2-20-2018
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Revisions

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Sign 3 - Internally Illuminated Channel Plaque W/push Thru Copy & Day/Night Trimcap Channel Letters



Dimensions
Sq. Ft. = 59.66'
Qty - 1



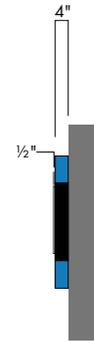
Colors

Faces

-  1/2" Translucent White Acrylic
-  Aluminum Painted to Match PMS 279
-  Day/ Night Vinyl Black Perforated
-  "Address" Black

Returns

-  Returns - Painted to Match PMS 279
-  Trimcap and Returns - Black
-  "Address" Black



Project Name.	Project Address.	Account Rep.	Designer.	Date.
UCLA Health	4560 Admiralty Way, Marina del Rey, CA 90292	Eric Cielak	L. Moreno	2-20-2018
5010 Venice Blvd. Los Angeles, CA 90019 • Ph - 323.937.4445 • Fx - 323.937.3912 • TakoTyko.com				

Revisions	

Approvals:

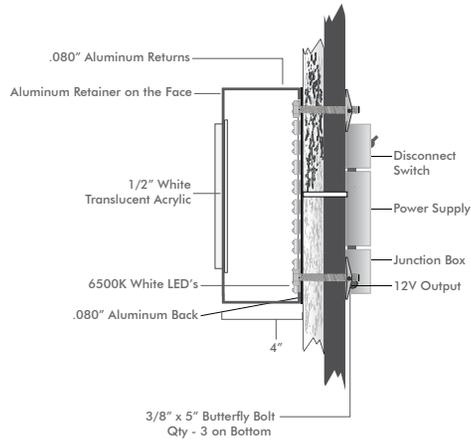
Client _____

Salesperson _____

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Sign 1& 2 - Internally Illuminated Channel Plaque W/push Thru Copy & Day/Night Trimcap Channel Letters
 "UCLA" Logo - Side View



Push Through Cabinet Specs

Face: .090" Routed Out Aluminum Face W/ 1/2" White Acrylic and Vinyl Overlays

Return: .080" Aluminum

Back: .080" ALuminum

Illumination

Type: LED

Transformer: Self Contained

Input - 120-220 VAV -0.26-.063 Amp

Output - 2.1 - 3.3 VDC - 2 x 5 Amp Circuit

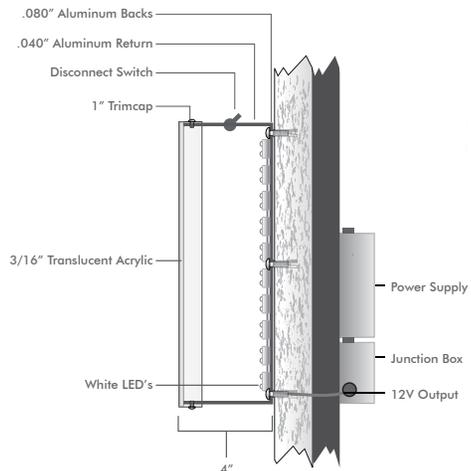
Mounting

3/8" X 8" All Thread with Washers and Nuts - Qty - 4 on Top

3/8" x 5" Butterfly Bolt - Qty - 3 on Bottom



"Health / Urgent Care" - Side View



Channel Letter Specs

Face: 3/16 Translucent Acrylic

Trimcap - 1"

Return: .040" Aluminum

Back: .080" ALuminum

Illumination

Type: LED

Transformer: Self Contained

Input - 120-220 VAV -0.26-.063 Amp

Output - 2.1 - 3.3 VDC - 2 x 5 Amp Circuit

Mounting

Flex Connectors, Flex Conduit

6-8 of 1/4" x 1 1/2" Screws and Shields



Project Name.	Project Address.	Account Rep.	Designer.	Date.
UCLA Health	4560 Admiralty Way, Marina del Rey, CA 90292	Eric Cielak	L. Moreno	2-20-2018
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Revisions	

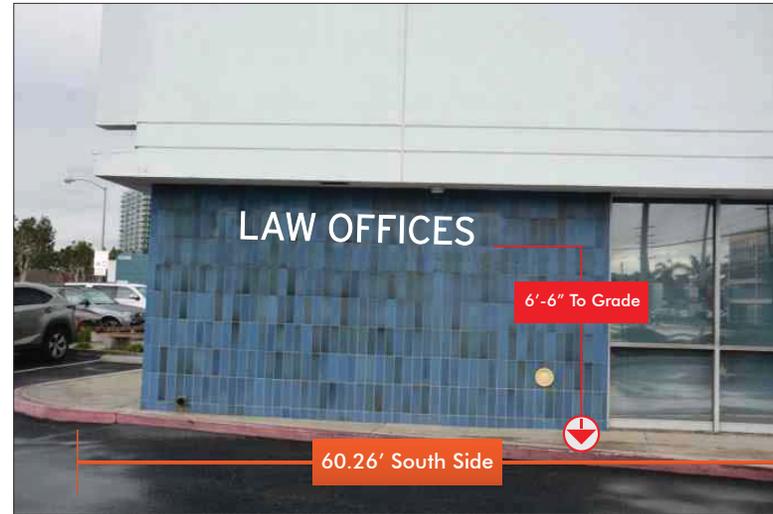
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Client	
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Sign 4 - Non Lit - Fabricated Letters

Existing



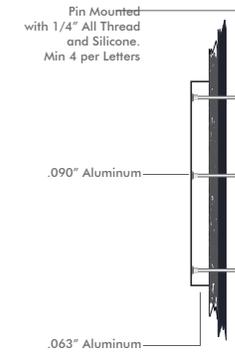
Proposed



Dimensions
Sq. Ft. = 8.6'
Qty - 1



Side View



Project Name. **UCLA Health** Project Address. **4560 Admiralty Way, Marina del Rey, CA 90292** Account Rep. **Eric Cielak** Designer. **L. Moreno** Date. **2-20-2018**
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Revisions

Approvals:

Client

Salesperson

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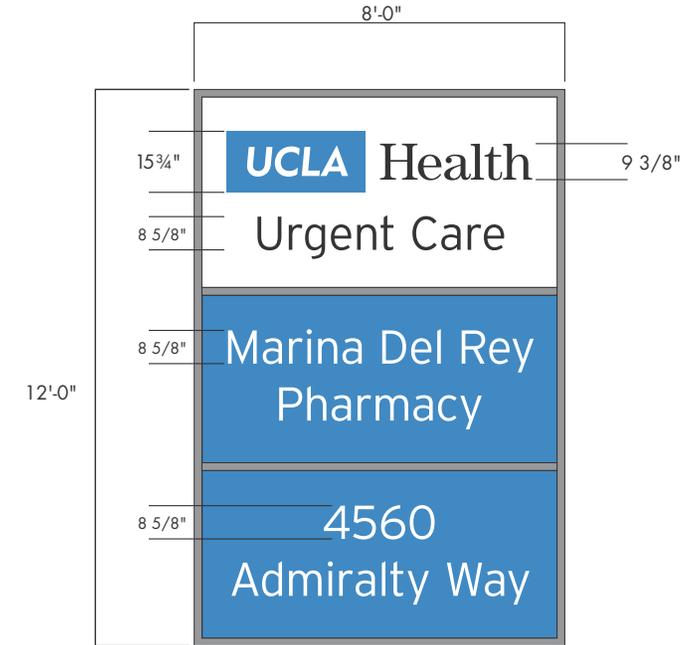
Page.

7

Sign 5 - Double Face Pole Sign Face Replacement



Dimensions
Sq. Ft. = 96'
Qty - 1



Colors

Faces

-  3/16" Translucent White Acrylic
-  Vinyl to Match AVERY A9503-T Tropical Blue
-  Matte Black Vinyl

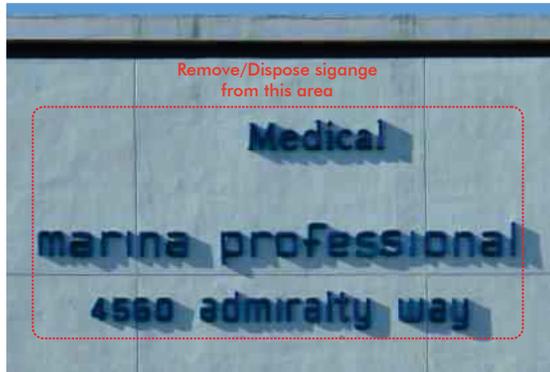


Project Name.	Project Address.	Account Rep.	Designer.	Date.
UCLA Health	4560 Admiralty Way, Marina del Rey, CA 90292	Eric Cielak	L. Moreno	2-20-2018
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Revisions	

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Existing Signage



Project Name.	Project Address.	Account Rep.	Designer.	Date.
UCLA Health	4560 Admiralty Way, Marina del Rey, CA 90292	Eric Cielak	L. Moreno	2-20-2018
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Revisions	

Approvals:
Client
Salesperson

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Project Logo - Futura Bold Italic - PMS 279c (blue)



Project Wordmark - Times New Roman -

Health

Interstate Light

Project Secondary Copy

ABCDEFGHIJKLMNO
PQRSTUVWXYZ

abcdefghijklmnopqrst
uvwxyz

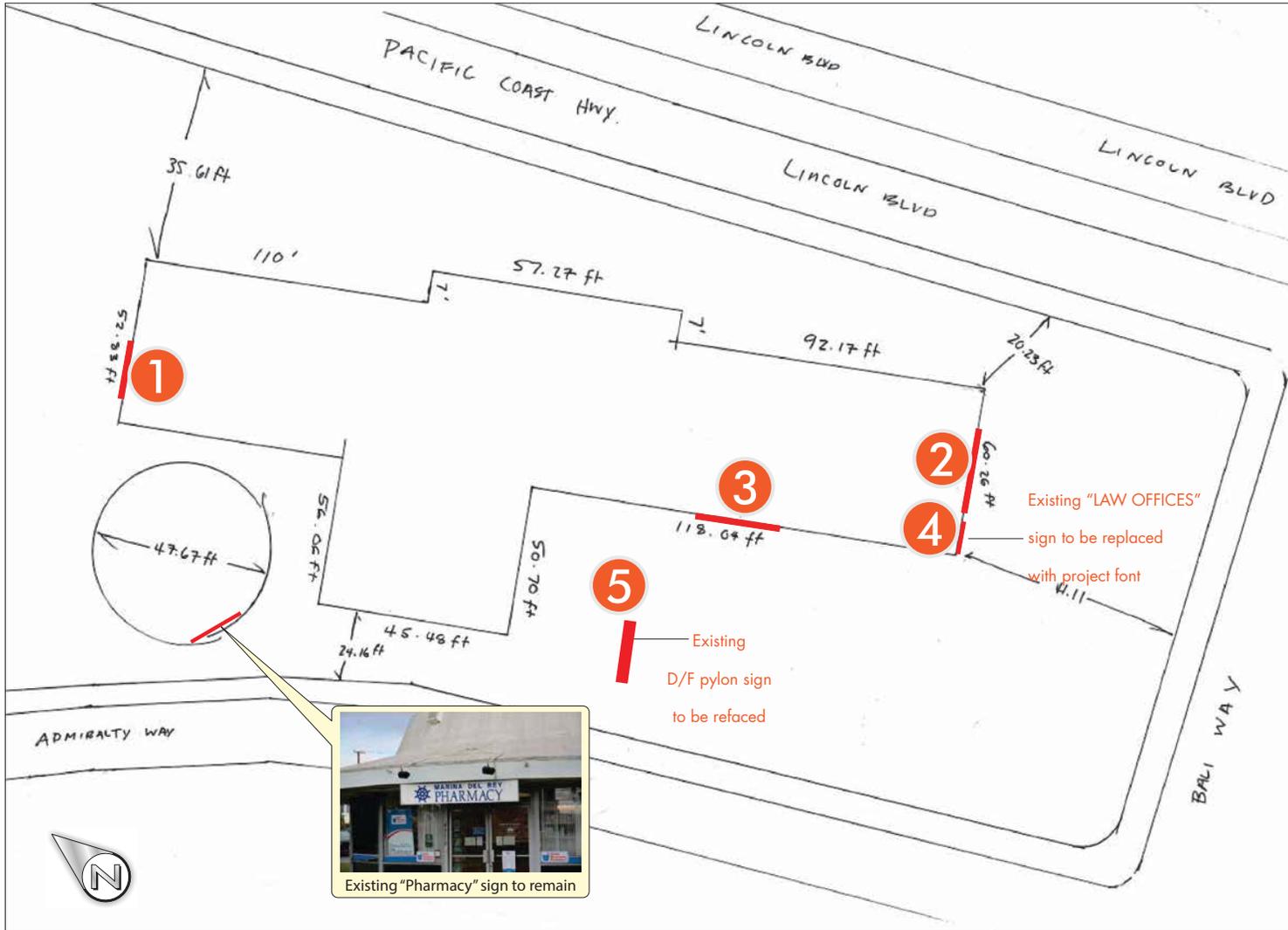
1234567890

The quick brown fox jumps
over the lazy dog

Revisions	

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Sign 1 - Site Plan



VICINITY MAP

EXISTING SIGNAGE:
 MP SIGN 30.25 SQ. FT.
 PYLON SIGN 96 SQ. FT.
 ADMIRALTY SIDE SIGNS TOTAL AREA: 54.69 SQ. FT.
 LINCOLN SIDE SIGNS TOTAL AREA: 27.88 SQ. FT.
 NORTH SIDE SIGNS TOTAL AREA: 86.8 SQ. FT.
 BALI SIDE SIGNS TOTAL AREA: 65.13 SQ. FT.

TOTAL: 360.75 SQUARE FEET

NEW SIGNAGE:
 PYLON SIGN 96 SQ. FT.
 SIGN A.1: 59.66 SQ. FT.
 SIGN A.2: 59.66 SQ. FT.
 SIGN B: 74.53 SQ. FT.
 SIGN C: 8.6 SQ. FT.

TOTAL: 298.45 SQUARE FEET



Existing "Pharmacy" sign to remain

PLOT PLAN - 4560 Admiralty Way, Marina Del Rey, CA. 90292

	Project Name.	Project Address.	Account Rep.	Designer.	Date.	Revisions _____ _____ _____	Approvals: Client _____ Salesperson _____	This is an original unpublished drawing prepared for you by Tako Tyko Signs and Lighting for your business. All ideas, designs, arrangements and plans indicated or represented in this drawing are owned by and the property of Tako Tyko Signs and Lighting. It is not to be shown to anyone outside of your organization nor to be reproduced, copied or exhibited in any fashion without the written permission of Tako Tyko Signs and Lighting. © COPYRIGHT PROTECTED	Page. 11
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Caring for Your Coast

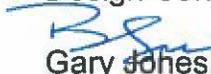
Gary Jones
Director

Kerry Silverstrom
Chief Deputy

John Kelly
Deputy Director

Brock Ladewig
Deputy Director

April 4, 2018

TO: Design Control Board
FROM:  Gary Jones, Director

SUBJECT: ITEM 4B – PARCEL 97 – PACIFIC OCEAN MANAGEMENT / CAFÉ BUNA – DCB # 18-006– CONSIDERATION OF NEW TENANT SIGNAGE

Item 4B on your agenda is a submittal from Café Buna (Applicant), seeking approval for new tenant signage. The project is located at 552 Washington Boulevard.

PROJECT OVERVIEW

Existing Conditions

The subject tenant space is located within the Marina Beach Shopping Center, which has a sign program that was previously approved by your Board in 2004. The storefront features a covered walkway with display windows. The sign from the previous tenant is mounted on the front wall above the covered walkway.

Proposed Project

The applicant proposes to replace the existing wall sign with one new wall sign on the wall above the covered walkway.

SIGNAGE

Building Façade

The proposed wall sign would be 48 square feet and measure 32' long by 2' tall. The sign would be mounted on the building façade above the front walkway, 11' above grade. The sign would read "CAFÉ BUNA – RESTAURANT" in 18" tall Times New Roman channel letters, in European Blue #2620-137F, and include a logo of a waitress. The sign would be made with lexan faces and aluminum returns. The proposed sign uses the appropriate sign placement, size, font, and colors, consistent with the sign program for this shopping center.

STAFF REVIEW

Staff finds the proposed project is consistent with the Marina del Rey Design Guidelines, the Revised Permanent Sign Control and Regulations, and the Marina Beach Shopping Center Sign Program.

Staff recommends APPROVAL of DCB #18-006, subject to the following conditions:



- 1) The Applicant shall obtain approval from the Department of Regional Planning.**
- 2) No change shall be made to the approved design, landscaping, hardscape, materials, or signage without written approval from the Department of Beaches and Harbors Planning Division staff.**
- 3) No substantial change shall be made to the approved design, landscaping, hardscape, materials, or signage without the written consent of the Design Control Board.**

GJ:BL:te



Graphics > Signage > Displays

363 Coral Circle
Suite B
El Segundo, CA 90245
310.577.0300
<http://www.image360.com/mb.ca/>

Client: Cafe Buna

Location: 552 Washington Blvd

Date: 02/13/18

Sign Type

Halo-Lit Channel Letter Sign

Drawing:

Front Elevation

Property is 50 ft long
Sign is 48 sq. ft.





Front Lit Light Box
3.41 Sq.Ft.

European Blue #3630-137F



Pantone 493c



Pantone 7502c



European Blue #3630-137F



Graphics > Signage > Displays

363 Coral Circle
Suite B
El Segundo, CA 90245
310.577.0300
<http://www.image360.com/mb.ca/>

Client: Cafe Buna

Location: 552 Washington Blvd

Date: 02/13/18

Sign Type

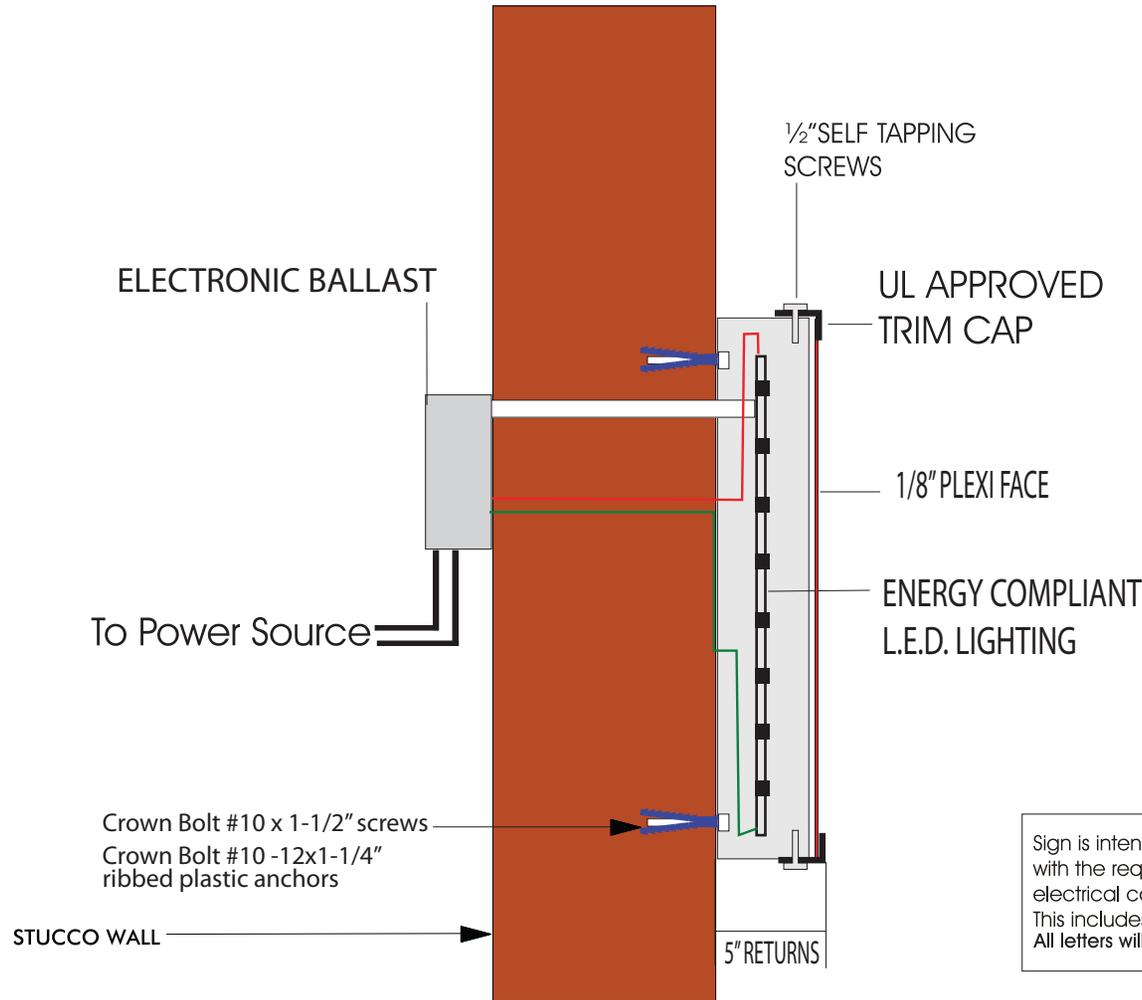
Halo-Lit Channel Letter Sign

Drawing:

Front Elevation

Property is 50 ft long
Sign is 48 sq. ft.

INSTALL PLAN FRONT LIT CHANNEL LETTERS



SPECIFICATIONS

RETURNS

040 White aluminum

FACES

1/8" white plexi with black trim cap

ELECTRICAL SPECIFICATIONS

SECONDARY

Energy compliant LED lighting

Class 2 power supply AC input 100 - 240 VAC

1A,47 - 63hz DC output + 12V/5A/60W

Sign is intended to be installed in accordance with the requirements of article 600 of the national electrical code and / or other applicable local codes, This includes proper grounding and bonding of the sign. All letters will have UL labels attached



Graphics > Signage > Displays

363 Coral Circle
Suite B
El Segundo, CA 90245

310.577.0300
<http://www.image360.com/mb.ca/>

Client: Cafe Buna

Location: 552 Washington Blvd

Date: 02/13/18

Sign Type

Halo-Lit Channel Letter Sign

Drawing:

Install Plan

Back Lit Channel Letters

44.43 Sq.Ft.

355.5"

CAFE BUNA • RESTAURANT 18"

European Blue #3630-137F



Graphics > Signage > Displays

363 Coral Circle
Suite B
El Segundo, CA 90245

310.577.0300
<http://www.image360.com/mb.ca/>

Client: Cafe Buna

Location: 552 Washington Blvd

Date: 02/13/18

Sign Type

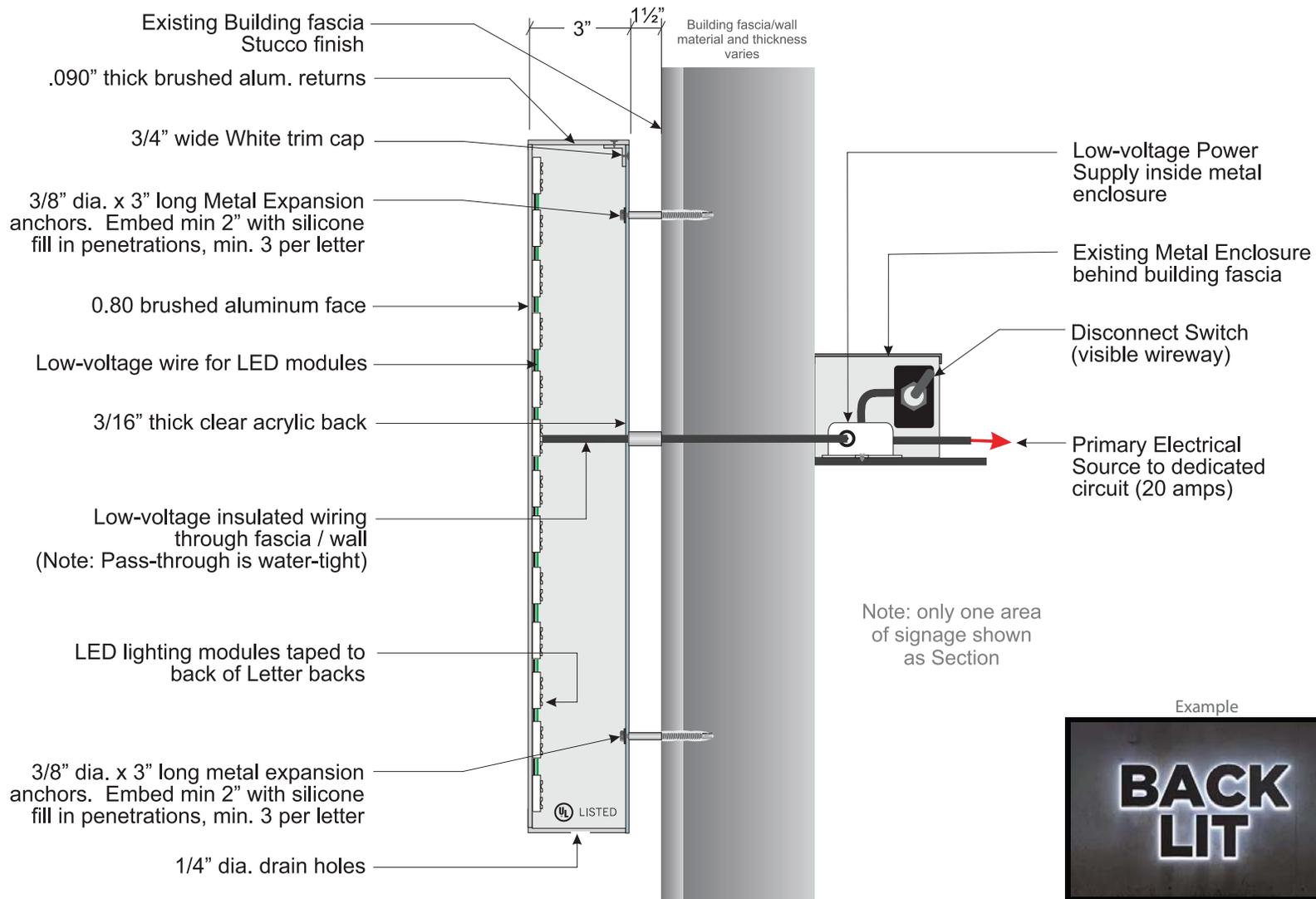
Halo-Lit Channel Letter Sign

Drawing:

Front Elevation

Property is 50 ft long
Sign is 48 sq. ft.

THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF THE SIGN.



Graphics > Signage > Displays

363 Coral Circle
Suite B
El Segundo, CA 90245

310.577.0300
<http://www.image360.com/mb.ca/>

Client: Cafe Buna

Location: 552 Washington Blvd

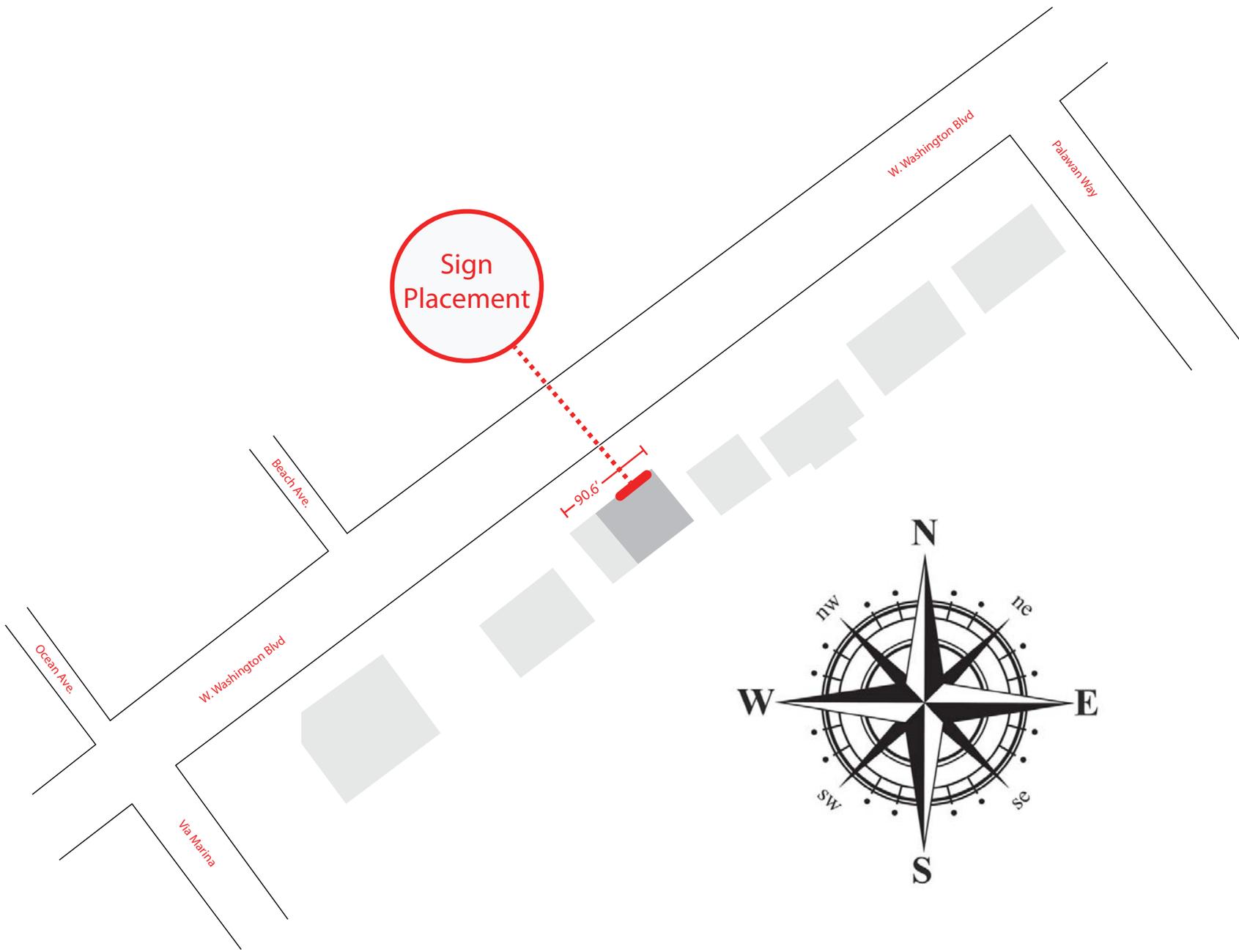
Date: 02/13/18

Sign Type

Halo-Lit Channel Letter Sign

Drawing:

Install Plan



Graphics > Signage > Displays

363 Coral Circle
Suite B
El Segundo, CA 90245
310.577.0300
<http://www.image360.com/mb.ca/>

Client: Cafe Buna

Location: 552 Washington Blvd

Date: 02/13/18

Sign Type

Halo-Lit Channel Letter Sign

Drawing:

Plot Plan



Caring for Your Coast

Gary Jones
Director

Kerry Silverstrom
Chief Deputy

John Kelly
Deputy Director

Brock Ladewig
Deputy Director

April 4, 2018

TO: Design Control Board
FROM: 
Gary Jones, Director

SUBJECT: ITEM 4C – PARCELS 9, 22, 27 – SOUTHERN CALIFORNIA EDISON / MOBILITIE – DCB #s 18-007, 18-008, and 18-009 – CONSIDERATION OF POLE MOUNTED WIRELESS TELECOMMUNICATION FACILITIES

Item 4C on your agenda is a submittal from Mobilitie (Applicant), seeking approval for three pole mounted wireless telecommunication facilities (Facilities). The projects are located in the Admiralty Way and Via Marina street right-of-ways adjacent to parcels 27 (DCB # 18-007), 22 (DCB # 18-008), and 9 (DCB # 18-009).

PROJECT OVERVIEW

Existing Conditions

The three proposed project sites contain 28' tall Southern California Edison light poles. They are located in the sidewalk within the public works right of way on Admiralty Way and Via Marina near parcels 9, 22, and 27.

Proposed Project

The applicant proposes to replace three existing light poles with new pole-mounted Facilities, disguised as light poles. The light poles will remain functional.

BUILDING DESIGN

Pole-Mounted Facilities

The three proposed light poles would be approximately 28' tall, with a slightly larger pole diameter than the existing street light, and consist of grey concrete. Antennas and equipment would be located on the top of the pole, extending approximately 6' above the arm and light. A cylindrical shroud would be placed over the antenna equipment and painted grey to match the pole. The equipment at the top of the light pole would be slightly larger in diameter than the pole. Two subterranean equipment vaults would be installed adjacent to each light.

The new street lights would be installed in the sidewalk within 3' of the existing locations. The existing street lights would remain in place until the new ones were installed.

STAFF REVIEW

The proposed Facility locations next to parcel 27 and parcel 22 appear to be free of any obstructions. The proposed Facility next to parcel 9 would be located in a future driveway



location for the Wetland Park. This Facility's location would need to be moved outside of the future driveway.

Staff finds the applicant's proposal would utilize co-locating with existing utilities and the design of the Facilities adequately screens the antenna equipment. The project is consistent with the following Marina del Rey Design Guidelines.

DG.179 – Discourage service areas or utilities visible from the waterfront and promenade.

DG.186 – Encourage the installation of utilities underground.

DG.187 – Locate satellite dishes or wireless telecommunication facilities in unobtrusive locations and/or surrounded by walls to minimize their visual impact.

DG.188 – Screen and buffer antennas and on-site transformers from any public street views.

DG.191 – Treat mechanical equipment as a unique design feature using quality materials or blending with the architecture.

Staff recommends **APPROVAL** of DCB #18-007, 18-008, 18-009, subject to the following conditions:

- 1) The Applicant shall obtain approval from the Department of Regional Planning and Public Works.
- 2) No change shall be made to the approved design, landscaping, hardscape, materials, or signage without written approval from the Department of Beaches and Harbors Planning Division staff.
- 3) No substantial change shall be made to the approved design, landscaping, hardscape, materials, or signage without the written consent of the Design Control Board.
- 4) Updated plans shall be submitted for the Facility adjacent to Parcel 9 indicating an alternate location outside of the future driveway.
- 5) The traffic control plan is not part of this approval.

GJ:BL:te

APPROVED

By Berto Barajas at 3:40 pm, Feb 08, 2018

Streetlight design drawings conceptually approved
All ground base equipment to be approved by local jurisdiction.

Approved power route from IMS and district planner is also required for final CD approval.

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED



IF YOU DIG IN ANY STATE
DIAL 811 FOR THE LOCAL
"ONE CALL CENTER" -
IT'S THE LAW

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE (E) UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL NOTES

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 OF EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS (N).

SITE INFORMATION

Table with 2 columns: Field Name and Value. Fields include SITE ID, CASCADE ID, LATITUDE, LONGITUDE, CROSS STREET, CITY, STATE, ZIP, COUNTY, JURISDICTION, PROPERTY OWNER, and APPLICANT.

ENGINEER

XD INDUSTRIES 1572 N. BATAVIA ST. SUITE 1D ORANGE, CA 92876
JOSE FRIAS (714) 947-3093 PROJECT NUMBER: 9CAB011919

DO NOT SCALE DRAWINGS

CONTRACTORS SHALL VERIFY ALL PLANS, (E) DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



intelligent infrastructure

SITE ID-CANDIDATE LETTER/CASCADE ID-CANDIDATE LETTER:

9CAB011919/LA90XSIQ0A

STREETLIGHT ID/STRUCTURE NUMBER:

4101526E

COORDINATES OF POLE LOCATION:

33.974157/-118.457639

CROSS STREET:

VIA MARINA & TAHITI WY.

CITY, STATE, ZIP:

MARINA DEL REY, CA 90292

VICINITY MAP



Table with 2 columns: Field Name and Value. Fields include STRUCTURE_NUMBER, TARIFF, MATERIAL, POLE_HEIGHT, SAP_ASSET_NAME, F_OF_LAMPS, LONGITUDE, LATITUDE, POLE_PURPOSE, NAME_ALF, CITY_NAME, and County-z.

PROJECT DESCRIPTION

END USER PROPOSES TO INSTALL EQUIPMENT ON A REPLACEMENT CONCRETE POLE WITHIN AN EXISTING RIGHT-OF-WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:
- INSTALL PROPOSED BACKHAUL TRANSPORT EQUIPMENT ON REPLACEMENT STREETLIGHT.
- SCE CONTRACTOR SHALL INSTALL NEW CONCRETE STREET LIGHT AND HANDHOLE.

CODES

2015 INTERNATIONAL BUILDING CODE GENERAL ORDER 95
2014 NATIONAL ELECTRICAL CODE
TIA/EIA-222-G-2 OR LATEST EDITION
LOCAL BUILDING/PLANNING CODE

DRAWING INDEX

Table with 2 columns: SHEET NO. and SHEET TITLE. Lists drawing sheets T-1 through TC-1.



PROJECT NO: LA90XSIQ0A
DRAWN BY: K.C.
CHECKED BY: JF

Table with 2 columns: Date and Description. Lists revision dates and descriptions.

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

NOT FOR CONSTRUCTION

LA90XSIQ0A
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST ADOPTED EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
2. CONTRACTOR SHALL CONSTRUCT SITE IN ACCORDANCE WITH THESE DRAWINGS AND LATEST MOBILITIE CONSTRUCTION STANDARDS. THE SPECIFICATION IS THE RULING DOCUMENT AND ANY DISCREPANCIES BETWEEN THE SPECIFICATION AND THE CONSTRUCTION DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OR MOBILITIE CM PRIOR TO THE COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE (N) WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED, AS SHOWN, PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OR MOBILITIE CM PRIOR TO THE COMMENCEMENT OF WORK. NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OF FIELD CONDITIONS.
4. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL ANY/ALL ITEMS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM SUBJECT ONLY TO OWNER-SUPPLIED ITEMS. CONTRACTOR SHALL PROVIDE ANY/ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
5. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. OWNER PROVIDED AND CONTRACTOR INSTALLED MATERIALS WILL INCLUDE THE FOLLOWING, UNLESS NOTED OTHERWISE:
 - A) TRANSMITTER
 - B) UHF ANTENNA AND MOUNTING BRACKETS, GPS ANTENNAS AND KU ANTENNAS
 - C) UHF COAX AND HANGERS
 - D) INTEGRATED LOAD CENTER
6. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, (E) CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ANY DISCREPANCIES TO THE ATTENTION OF THE MOBILITIE CM, IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.
7. DETAILS PROVIDED ARE FOR THE PURPOSE OF SHOWING DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR SITE CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
8. CONTRACTOR SHALL PAY FOR APPLICABLE PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO ORDERING MATERIALS AND THE COMMENCEMENT OF WORK.
9. THE TERM #PROVIDE-USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
10. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
11. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING ACCEPTED INDUSTRY-STANDARD SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
13. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE MOBILITIE CM AND SCHEDULE THEIR ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
15. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
16. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT (E) SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING ETC. AND IMMEDIATE REPAIR TO RESTORE CONDITION, ANY DAMAGE THAT OCCURS DURING CONSTRUCTION AT THE SOLE COST OF THE CONTRACTOR.
17. IN DRILLING HOLES, OR CORING, INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., MUST BE CLEARLY UNDERSTOOD THAT REINFORCING

STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE LOCATED BY THE CONTRACTOR USING APPROPRIATE METHODS AND EQUIPMENT PRIOR TO ANY DRILLING OR CORING OPERATIONS IN (E) CONCRETE.

1. CONTRACTOR SHALL REPAIR, TO NEW CONDITION, ALL (E) WALL SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACES.
2. CONTRACTOR SHALL SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES OR MATERIALS WITH UL, LISTED AND FIRE CODE APPROVED MATERIALS AND SYSTEMS THAT MEET OR EXCEED THE RATING OF THE ASSEMBLY IN WHICH THE NEW PENETRATION IS PLACED.
3. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
4. MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
5. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO (E) SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH JURISDICTIONAL OR STATE AND LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATED WITH LOCAL REGULATORY AUTHORITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ANY EROSION CONTROL MEASURES, RECORD-KEEPING, MONITORING, AND REPORTING TO THE OWNER AND REGULATORY AUTHORITIES.
6. ALL CONSTRUCTION WORK IS TO ADHERE TO APPLICANT'S INTEGRATED CONSTRUCTION STANDARDS UNLESS STATE OR LOCAL CODE IS MORE STRINGENT.
7. THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PERFORM THE CONSTRUCTION IN ACCORDANCE PER STATE BUILDING STANDARDS CODE AND STATE CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISHED WORK WILL NOT COMPLY PER STATE CODE OF REGULATIONS, A SCOPE OF WORK DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE JURISDICTION BEFORE PROCEEDING WITH THE WORK. A CHANGE ORDER FOR THAT SCOPE SHALL BE SUBMITTED TO THE MOBILITIE CM PRIOR TO PROCEEDING WITH THE WORK.
8. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
9. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE. ANY CORRECTIVE WORK SHALL BE COMPLETED AT THE SOLE COST OF THE CONTRACTOR.

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY MOBILITIE CM AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE MOBILITIE CM HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL (E) CONDITIONS OF ELECTRICAL EQUIP., ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF THEIR BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC, ALL CODES AND ORDINANCES OF THE LOCAL JURISDICTION, AND POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT ARE NOT BE LIMITED TO:

- A) UL – UNDERWRITERS LABORATORIES
- B) NEC – NATIONAL ELECTRICAL CODE
- C) NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
- D) OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
- E) SBC – STANDARD BUILDING CODE
- F) NFPA – NATIONAL FIRE PROTECTION AGENCY
- G) ANSI – AMERICAN NATIONAL STANDARDS INSTITUTE
- H) IEEE – INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
- I) ASTM – AMERICAN SOCIETY FOR TESTING MATERIALS

4. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH MOBILITIE CM ANY SIZES AND LOCATIONS WHEN NEEDED.
5. (E) SERVICES: CONTRACTOR SHALL NOT INTERRUPT (E) SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
6. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC... ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE MOBILITIE CM, PRIOR TO BEGINNING ANY WORK.
7. MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION, UNLESS OTHERWISE NOTED.
8. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
9. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
10. ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY APPLICANT.
11. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY FUNCTIONAL AND SHALL BE APPROVED BY THE MOBILITIE CM AND LOCAL JURISDICTION. ANY DEFICIENCIES SHALL BE CORRECTED BY AN ELECTRICAL CONTRACTOR AT THE SOLE COST OF THE CONTRACTOR.
12. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.



PROJECT NO: LA90XSIQQA
 DRAWN BY: K.C.
 CHECKED BY: JF

5	12/19/17	CLIENT COMMENTS
4	11/28/17	UC INCORPORATED
3	08/04/17	UC INCORPORATED
2	06/23/17	CLIENT COMMENTS
1	06/07/17	DESIGN CHANGE
0	06/05/17	90% CONSTRUCTION DRAWINGS

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

NOT FOR CONSTRUCTION

LA90XSIQQA
 MARINA DEL REY, CA 90292
 (N) CONCRETE LIGHT POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

ELECTRICAL NOTES CONT'D

- 13. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- 14. CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- 15. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS 'EXCAVATION, AND BACKFILLING.
- 16. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEC.
- 17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURER'S CATALOG INFORMATION OF ANY/ALL EQUIPMENT AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE MOBILITIE CM PRIOR TO INSTALLATION.
- 18. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE MOBILITIE CM UPON FINAL ACCEPTANCE.
- 19. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 20. DISCONNECT SWITCHES SHALL BE UL-RATED, H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- 21. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND KNOWN AS "NO-OXIDE A" BY DEARBORN CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
- 22. RACEWAYS: CONDUIT SHALL BE SCHEDULE 80 PVC MEETING OR EXCEEDING NEMA TC2 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'COLD GALV'.
- 23. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- 24. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, UNLESS OTHERWISE NOTED, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- 25. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- 26. SERVICE: AS SPECIFIED ON THE DRAWINGS, OWNER OR OWNER'S AGENT WILL APPLY FOR POWER. ALL PROVISIONS FOR TEMPORARY POWER WILL BE OBTAINED BY THE CONTRACTOR.
- 27. TELEPHONE OR FIBER SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- 28. ELECTRICAL AND TELCO/FIBER RACEWAYS TO BE BURIED A MINIMUM DEPTH OF 30", UNLESS OTHERWISE NOTED.
- 29. CONTRACTOR SHALL PLACE 6" WIDE DETECTABLE WARNING TAPE AT A DEPTH OF 6" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM".
- 30. ALL BOLTS SHALL BE 3-16 STAINLESS STEEL

GROUNDING NOTES:

- 1. ALL HARDWARE SHALL BE 3-16 STAINLESS STEEL, INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND, AS SPECIFIED, BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
- 2. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- 3. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.
- 4. ALL ELECTRICAL AND GROUNDING AT THE POLE SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION

(NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

- 5. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- 6. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #6 GROUND WIRES. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS.
- 7. ALL GROUND CONNECTIONS SHALL BE #6 AWG, UNLESS OTHERWISE NOTED. ALL WIRES SHALL BE COPPER WITH THHN, UNLESS OTHERWISE NOTED. ALL GROUND WIRE SHALL BE SOLID TIN COATED OR STRANDED GREEN INSULATED WIRE.
- 8. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, 10 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE MOBILITIE CM.
- 9. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- 10. ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE/ 6" BELOW FROST-LINE IN TRENCH, UNLESS OTHERWISE NOTED. BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT/ENGINEER.
- 11. ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.
- 12. ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
 - 12.A. RNDY, HY-GRADE U.L. LISTED CONNECTORS FOR OUTDOOR USE OR AS APPROVED BY APPLICANT PROJECT MANAGER. CADWELD, EXOTHERMIC WELDS WELDED CONNECTIONS).
 - 12.B. ONE (1) HOLE TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS.
- 13. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES) AND WEATHER-PROOFED WITH HEAT SHRINK.
- 14. ALL CONNECTION HARDWARE SHALL BE TYPE 3-16 STAINLESS STEEL (NOT ATTRACTED TO MAGNETS). ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH NEC, ARTICLE 250-82 AND SHALL BOND ALL (E) AND NEW GROUNDING ELECTRODES. NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS.

TESTING AND EQUIPMENT TURN UP REQUIREMENTS:

- 1. RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT TESTING WILL COMPLY WITH CURRENT INDUSTRY STANDARDS AND OR THOSE STANDARDS OF THE EQUIPMENT MANUFACTURER OR PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.
- 2. CONTRACTOR WILL USE THE APPROPRIATE CALIBRATED TESTING EQUIPMENT IN THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT THAT MEET INDUSTRY STANDARDS OF THE MANUFACTURER OR THOSE STANDARDS PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.
- 3. CONTRACTOR TO VERIFY AND RECORD ALL TEST RESULTS AND PROVIDE THESE RESULTS WITHIN THE FINAL CLOSE OUT PACKAGE.
- 4. ALL PERSONNEL INVOLVED IN THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT WILL BE REQUIRED TO HAVE BEEN TRAINED AND OR CERTIFIED IN THE PROPER TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT.
- 5. ALL TEST RESULTS SHALL BE TIME STAMPED, RECORDED AND PRESENTED PRIOR TO ENERGIZING AND TURN UP OF ANY EQUIPMENT.
- 6. GPS EQUIPMENT IS NOT TO BE TESTED OR ATTACHED TO ANY CABLING DURING TESTING, DOING SO WILL DAMAGE THE GPS UNIT.
- 7. PRIOR TO TESTING IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE TESTING PROCEDURES THEY ARE TO CALL AND OBTAIN ASSISTANCE FROM A QUALIFIED DESIGNATED TESTING REPRESENTATIVE.
- 8. EQUIPMENT IS NOT TO BE ENERGIZED UNTIL ALL TESTING HAS BEEN COMPLETED, APPROVED AND THE APPROPRIATE AUTHORITY HAS BEEN NOTIFIED AND GIVES APPROVAL TO ENERGIZE THE EQUIPMENT.

SITE WORK NOTES:

- 1. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- 2. 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 ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- 3. ALL (E) UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND

OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL (E) UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING (E) UTILITIES

4. CONTRACTOR SHALL VERIFY ALL (E) UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER OR MOBILITIE CM FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT THEIR OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL LOCAL UTILITY LOCATE HOT LINE, SUCH AS 811, FOR UTILITY LOCATIONS A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

5. ALL NEW AND (E) UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK. ANY COST RELATED TO ADJUSTING (E) STRUCTURES SHALL BE BORNE SOLELY BY THE CONTRACTOR.

6. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO (E) GRADES AT THE GRADING LIMITS.

7. 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.



PROJECT NO: LA90XSIQQA

DRAWN BY: K.C.

CHECKED BY: JF

5	12/19/17	CLIENT COMMENTS
4	11/28/17	UC INCORPORATED
3	08/04/17	UC INCORPORATED
2	06/23/17	CLIENT COMMENTS
1	06/07/17	DESIGN CHANGE
0	06/05/17	90% CONSTRUCTION DRAWINGS

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LA90XSIQQA
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2

SITE WORK NOTES CONT'D

8. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY, UNLESS OTHERWISE NOTED.
9. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
10. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
11. ANY FILLS PLACED ON (E) SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE (E) SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
12. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO DEBRIS, PAPER, TRASH, WEEDS, BRUSH, EXCESS FILL, OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
13. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
14. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

ENVIRONMENTAL NOTES:

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES AS REQUIRED BY THE LOCAL JURISDICTION WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSION CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE. ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
7. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
8. SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE, BUT IS NOT LIMITED TO SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
10. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

11. GO TO PLACE FILTER MATERIAL AT ALL CATCH BASINS ADJACENT TO CONSTRUCTION SITE TO PREVENT SOLID WASTE CONTAMINATION FROM ENTERING SEWER SYSTEM

FOUNDATION, EXCAVATION AND BACKFILL NOTES:

1. ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL, UNLESS OTHERWISE NOTED.
2. BACKFILL OF POLE SHALL BE PERFORMED IN ONE OF THREE OPTIONS:
 - A. PREFERRED: RAINBOW INDUSTRIES POLE SETTING FOAM SHALL BE INSTALLED PER MANUFACTURER SPECS. FOAM SHALL ALWAYS BE USED FOR POOR SOILS.
 - B. SECONDARY: CONCRETE (REQUIRES MOBILITIE CM WRITTEN APPROVAL) ALLOWABLE SOIL PRESSURE = 2000 PSF (ASSUMED). NON-NATIVE SOILS SHALL BE REMOVE FROM BORE AREA AND SHALL NOT BE REUSED FOR BACKFILL.
3. ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
4. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF ADEQUATE BEARING CAPACITY IS NOT ACHIEVED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
5. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
6. ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557.
7. NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING.
8. FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
9. NEWLY GRADED GRAVEL SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: TYPAR-3401 AS MANUFACTURED BY TYPAR GEOSYNTHETICS OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENCE OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED. I.E. FDOT TYPE NO. 57 FOR FENCED COMPOUND; FDOT TYPE NO. 67 FOR ACCESS DRIVE AREA, UNLESS OTHERWISE NOTED.
10. IN ALL AREAS TO RECEIVE FILL: REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH (E)/PREPARED SOIL SURFACE.
11. WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOILS AND RECOMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
12. IN AREAS WHICH (E) GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION

AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.

13. (E) GRAVEL SURFACING MAY NOT BE REUSED.

14. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE.

15. PROTECT (E) GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING 'MATS' OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR ANY DAMAGE TO (E) GRAVEL SURFACING OR SUB GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTORS OPERATIONS.

16. DAMAGE TO (E) STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/ OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.

17. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.



1872 N. BATAVIA ST. STE. 10
ORANGE, CA 92667

PROJECT NO:	LA90XSIQQA
DRAWN BY:	K.C.
CHECKED BY:	JF

5	12/19/17	CLIENT COMMENTS
4	11/28/17	UC INCORPORATED
3	08/04/17	UC INCORPORATED
2	06/23/17	CLIENT COMMENTS
1	06/07/17	DESIGN CHANGE
0	06/05/17	90% CONSTRUCTION DRAWINGS

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NOT FOR CONSTRUCTION

LA90XSIQQA
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
GENERAL NOTES

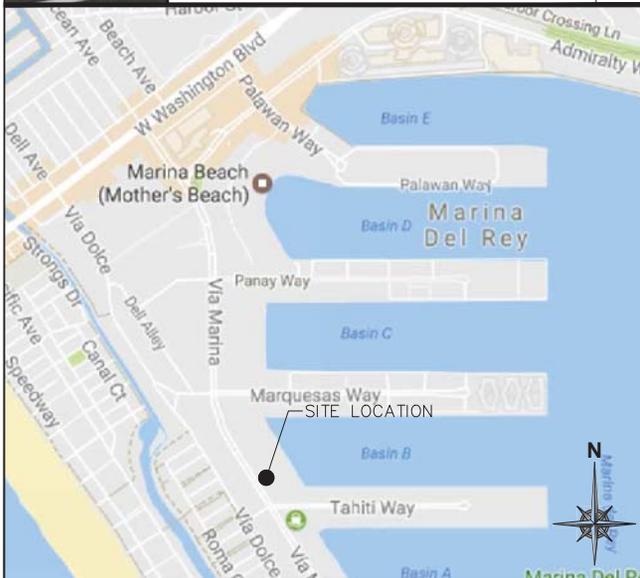
SHEET NUMBER
GN-3



EXHIBIT PHOTO

SCALE: NOT TO SCALE

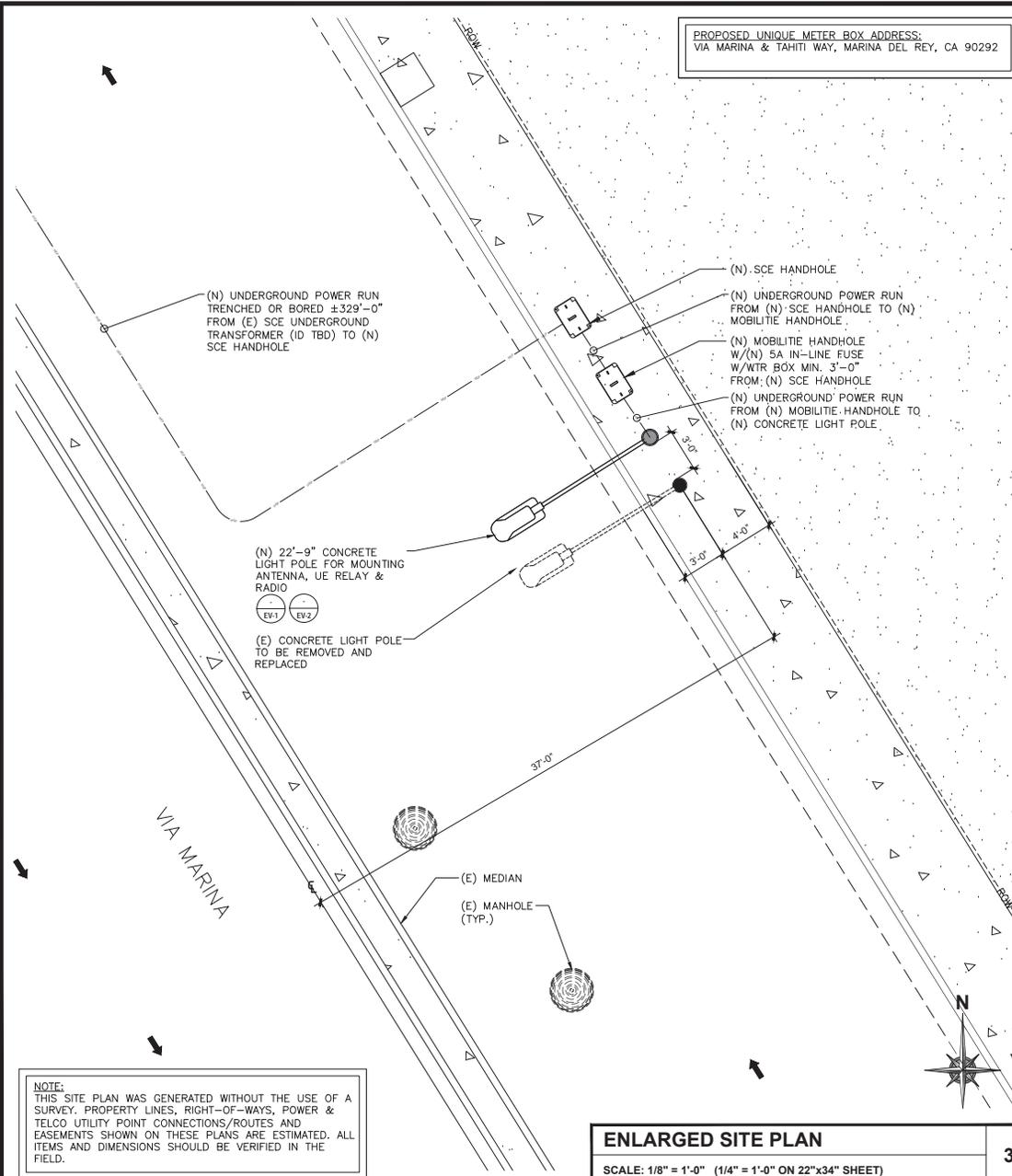
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AERIAL SITE LOCATION

SCALE: NOT TO SCALE

2



PROPOSED UNIQUE METER BOX ADDRESS:
VIA MARINA & TAHITI WAY, MARINA DEL REY, CA 90292

NOTE:
THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, RIGHT-OF-WAYS, POWER & TELCO UTILITY POINT CONNECTIONS/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.

ENLARGED SITE PLAN

SCALE: 1/8" = 1'-0" (1/4" = 1'-0" ON 22"x34" SHEET)

3





1572 N. BATAVIA ST. STE. 10
ORANGE, CA 92667

PROJECT NO:	LA90XSIQQA
DRAWN BY:	K.C.
CHECKED BY:	JF

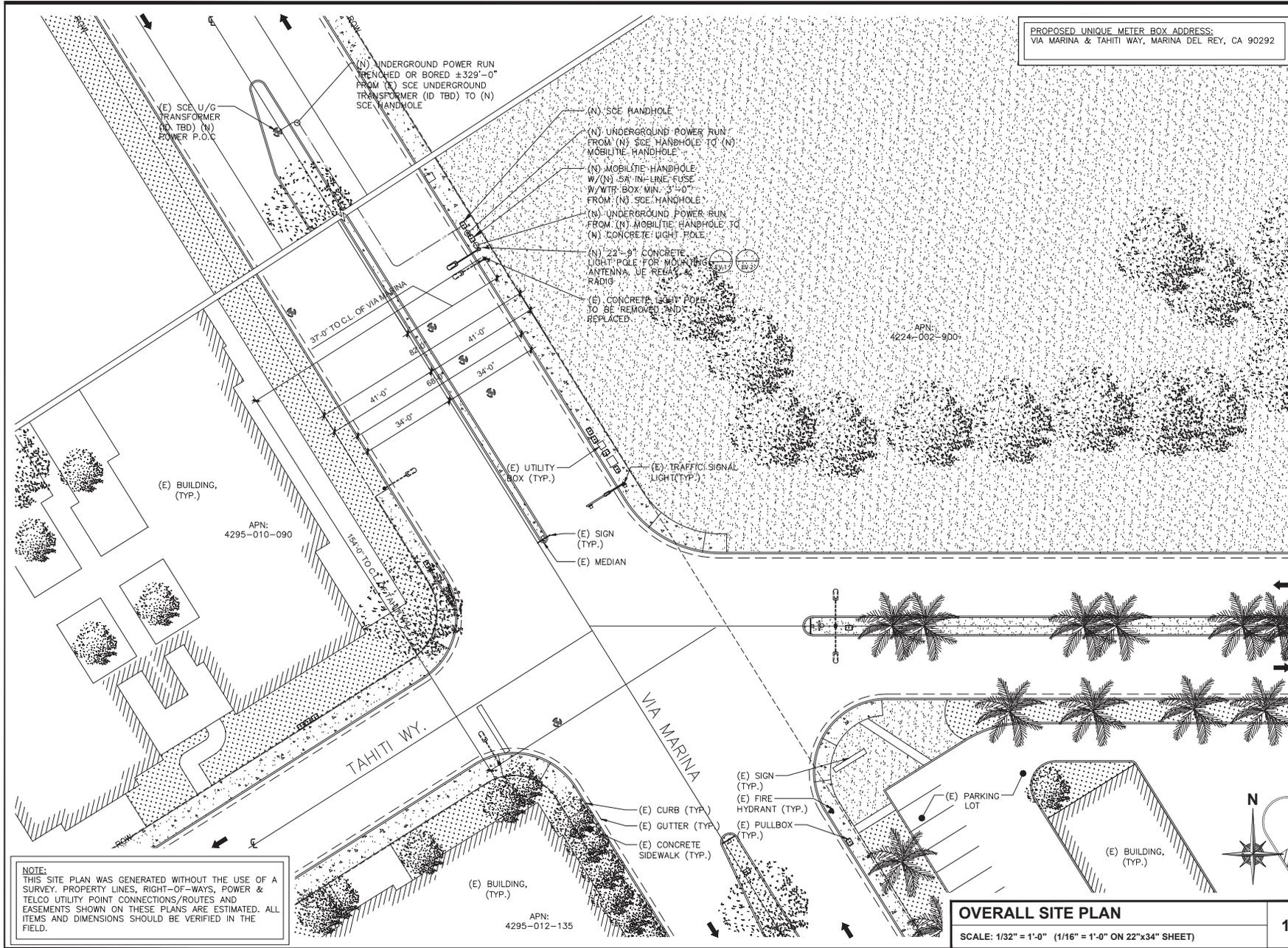
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4	11/28/17	UC INCORPORATED
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AFN:
224-002-900

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LA90XSIQQA MARINA DEL REY, CA 90292 (N) CONCRETE LIGHT POLE
SHEET TITLE EXHIBIT PHOTO <input type="checkbox"/> SITE PLAN
SHEET NUMBER SP-1



PROJECT NO: LA90XSIQ0A
DRAWN BY: K.C.
CHECKED BY: JF

5	12/19/17	CLIENT COMMENTS
4	11/28/17	UC INCORPORATED
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LA90XSIQ0A
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
SP-2

OVERALL SITE PLAN

SCALE: 1/32" = 1'-0" (1/16" = 1'-0" ON 22"x34" SHEET)

1

PROJECT NO: LA90XSIQ0A
DRAWN BY: K.C.
CHECKED BY: JF

5	12/19/17	CLIENT COMMENTS
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0	06/05/17	90% CONSTRUCTION DRAWINGS

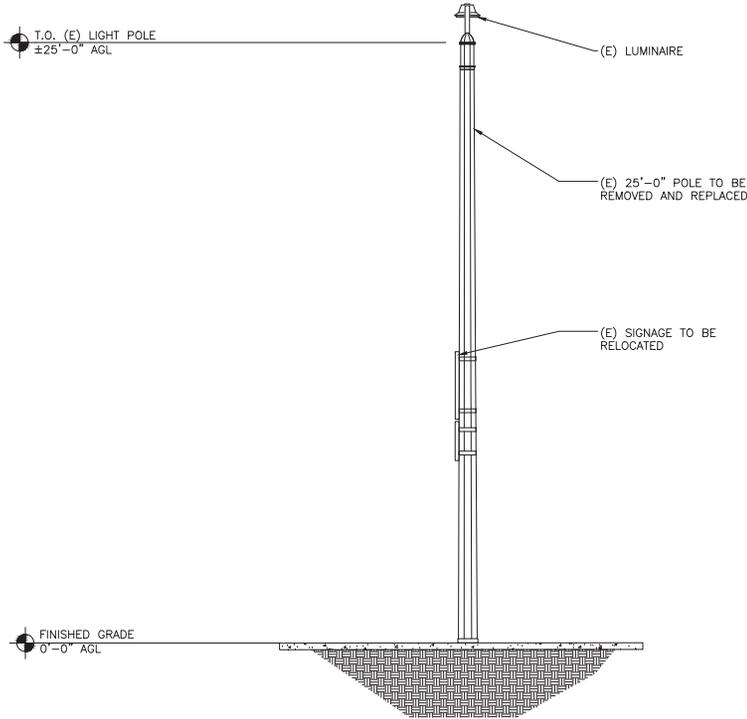
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NOT FOR CONSTRUCTION

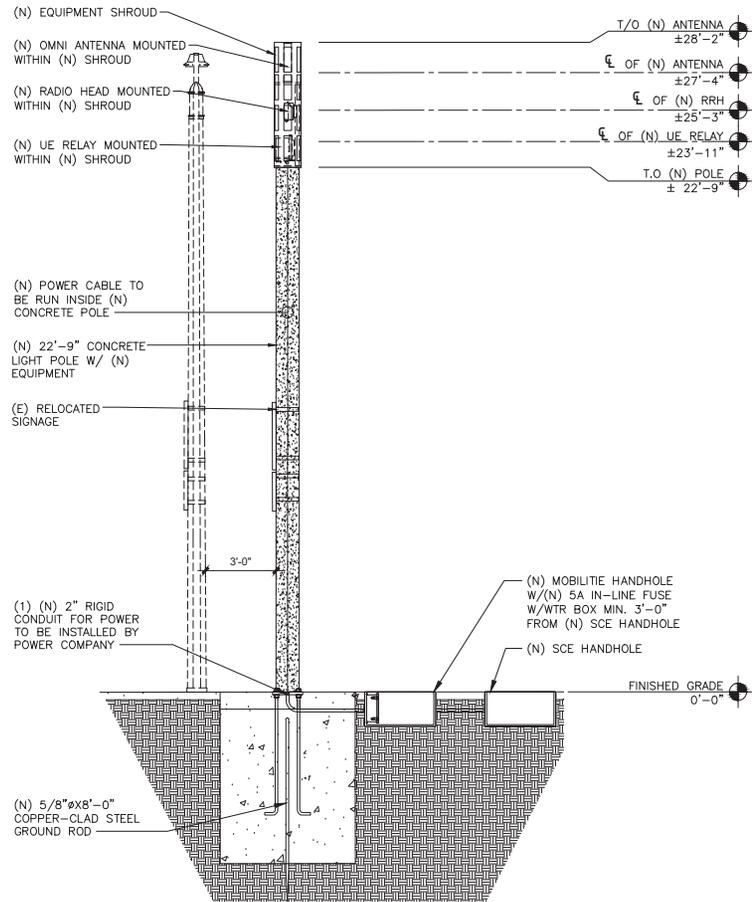
LA90XSIQ0A
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
POLE ELEVATIONS

SHEET NUMBER
EV-1



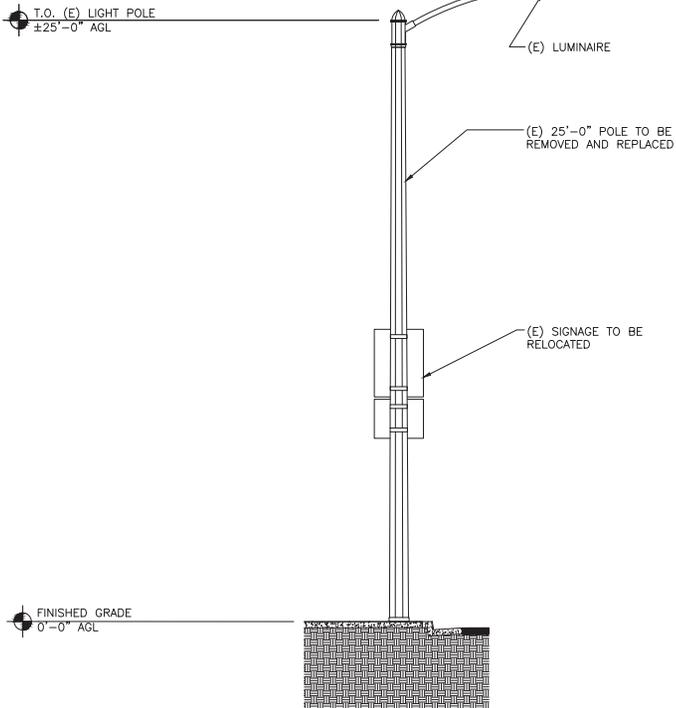
EXISTING REAR ELEVATION



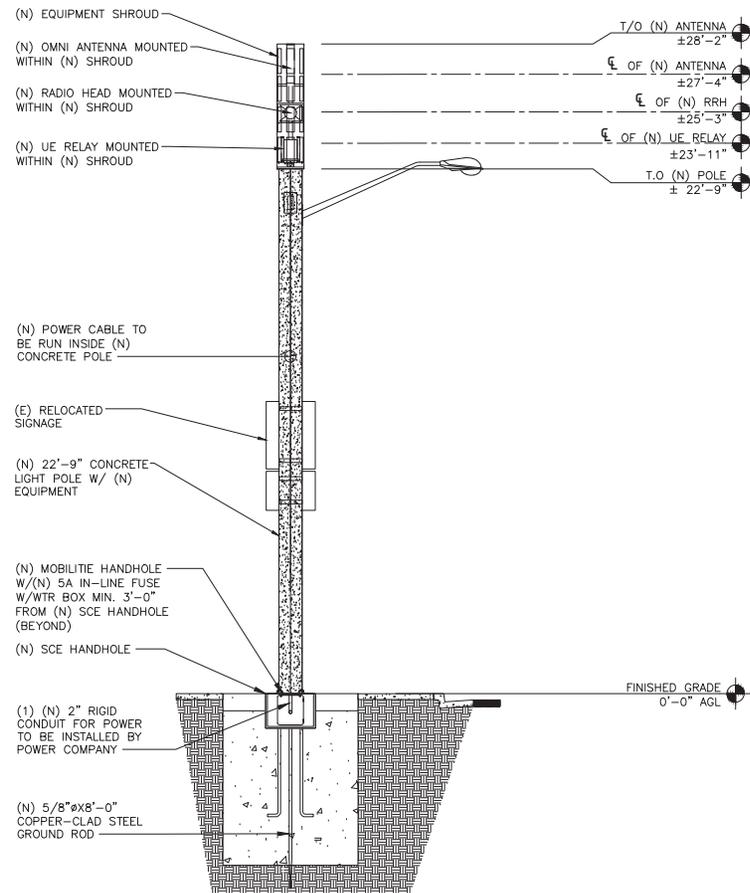
NEW REAR ELEVATION

POLE ELEVATIONS

SCALE: 3/16" = 1'-0" (3/8" = 1'-0" ON 22"x34" SHEET)



EXISTING SIDE ELEVATION



NEW SIDE ELEVATION

POLE ELEVATIONS
SCALE: 3/16" = 1'-0" (3/8" = 1'-0" ON 22"x34" SHEET)

1

mobilitie
intelligent infrastructure

XD Industries
1572 N. BATAVIA ST. STE. 10
DUNAGE, CA 90907

PROJECT NO: LA90XSIQ0A
DRAWN BY: K.C.
CHECKED BY: JF

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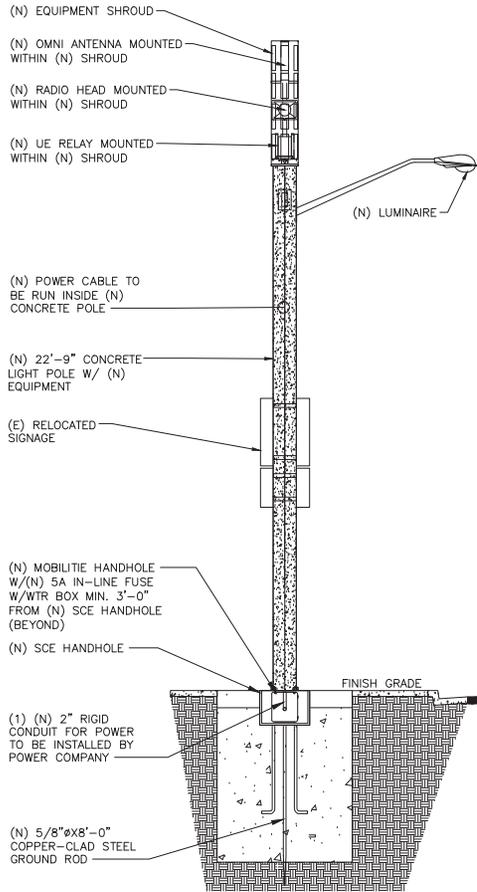
NOT FOR CONSTRUCTION

LA90XSIQ0A
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
POLE ELEVATIONS

SHEET NUMBER
EV-2

NOTE:
 1. CABLING DIAGRAM IS FOR CLARITY OF CABLE ROUTE AND TERMINATION ONLY. CONTRACTOR SHALL INSTALL CABLES WITH MINIMAL VISUAL IMPACT ON (N) CONCRETE LIGHT POLE. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.



CABLING NOTES:

- A) WOOD, CONCRETE AND EXISTING METALLIC POLES
- I) GROUNDING CONDUCTORS IN EXPOSED LOCATIONS MUST BE INSTALLED IN PVC.
- II) IN EARTH INSTALL PVC CONDUIT FOR BACKHAUL AND ELECTRICAL SERVICE. TRANSITION TO RGS AT GRADE LINE.
- (1) UTILIZE 1/2" COAX BLOCKS WITH LAG SCREWS TO SUPPORT COAX, RADIO AND MW POWER, RF COAX, AND ETHERNET CABLES TO WITHIN 12" OF THE EQUIPMENT BEING SERVED AND ON INTERVALS NOT TO EXCEED 6'.
- III) FOR UNDERGROUND HFC/PUBLIC BACKHAUL, ROUTE ETHERNET CABLE IN CONDUIT UP THE POLE AND ENTER THE UTILITY POLE RISER. SEAL EXPOSED END OF CONDUIT WITH A CABLE TERMINATION FITTING.
- IV) BY APPROVAL IN SELECT CASES LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) MAY BE USED IN LENGTHS NOT TO EXCEED 36" TO EXTEND THE ELECTRICAL SERVICE CONDUIT TO THE AC DISTRIBUTION BOX. EXAMPLE: UTILITY-REQUIRED DISCONNECT ON POLE W/ AC DISTRIBUTION BOX ON OPPOSITE SIDE OF POLE.
- B) (N) METALLIC POLES
 - i) PROCURE (N) POLES WITH SUITABLE HAND HOLES SUCH THAT HAND HOLES EXIST AT ALL EQUIPMENT LOCATIONS.
 - (1) WITH CLIENT APPROVAL IN SELECT CASES TO FACILITATE IMPROVED APPEARANCE, 1/2" COAXIAL CABLES MAY BE "SUPERFLEX" IN LIEU OF LDF-4.
 - ii) WHERE POSSIBLE, INSTALL POLE BASE SUCH THAT THE ELECTRICAL FEED AND BACKHAUL (IF UNDERGROUND) CIRCUIT ENTER THE POLE THROUGH THE POLE BASE. IF A DISCONNECTING MEANS SEPARATE FROM THE AC DISTRIBUTION BOX IS REQUIRED BY JURISDICTION OR UTILITY, WITH APPROVAL IN SELECT CASES LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) MAY BE USED IN LENGTHS NOT TO EXCEED 36" TO EXTEND THE ELECTRICAL SERVICE CONDUIT TO THE AC DISTRIBUTION BOX.

PLUMBING DIAGRAM

SCALE: 3/16" = 1'-0" (3/8" = 1'-0" ON 22"x34" SHEET)

1

BILL OF MATERIALS							
QTY.	DESCRIPTION	MANUFACTURER	MODEL NUMBER	AZIMUTH	CABLE	DIMENSIONS (HxWxD)	WEIGHT
1	ANTENNA	CCI	SCA-OM-360Fx-Q-H2	TBD	--	20.9" X 4" DIAMETER	3.2 LBS
1	UE RELAY	AIRSPAN	IR460-SPB-ST-1-P-0	TBD	--	13" X 7" DIAMETER	8.8 LBS
--	--	--	--	--	--	--	--
1	GPS UNIT	NOKIA	FAWD/472932A	--	--	3.1" X 2.1" DIAMETER	TBD
1	RADIO	NOKIA	473603A	--	--	9.7" X 12.9" X 6.3"	24.7 LBS
--	--	--	--	--	--	--	--
1	ANTENNA SHROUD	CONCALFAB	009819-000	--	1 1/2	65" X 14" DIAMETER	TBD
1	CONCRETE LIGHT POLE	AMERON	BP-300X09	--	--	29'-3" X 11.8" DIAMETER	TBD

BILL OF MATERIALS

SCALE: NOT TO SCALE

2



PROJECT NO: LA90XSIQ0A
 DRAWN BY: K.C.
 CHECKED BY: JF

REV	DATE	DESCRIPTION
5	12/19/17	CLIENT COMMENTS
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3	08/04/17	UC INCORPORATED
2	06/23/17	CLIENT COMMENTS
1	06/07/17	DESIGN CHANGE
0	06/05/17	90% CONSTRUCTION DRAWINGS

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LA90XSIQ0A
 MARINA DEL REY, CA 90292
 (N) CONCRETE LIGHT POLE

SHEET TITLE
 PLUMBING RISER DIAGRAM

SHEET NUMBER
 PL-1

NOT USED

SCALE: NOT TO SCALE

3

PROJECT NO: LA90XSIQQA
DRAWN BY: K.C.
CHECKED BY: JF

REV	DATE	DESCRIPTION	DRN.	APPR.
5	12/19/17	CLIENT COMMENTS		
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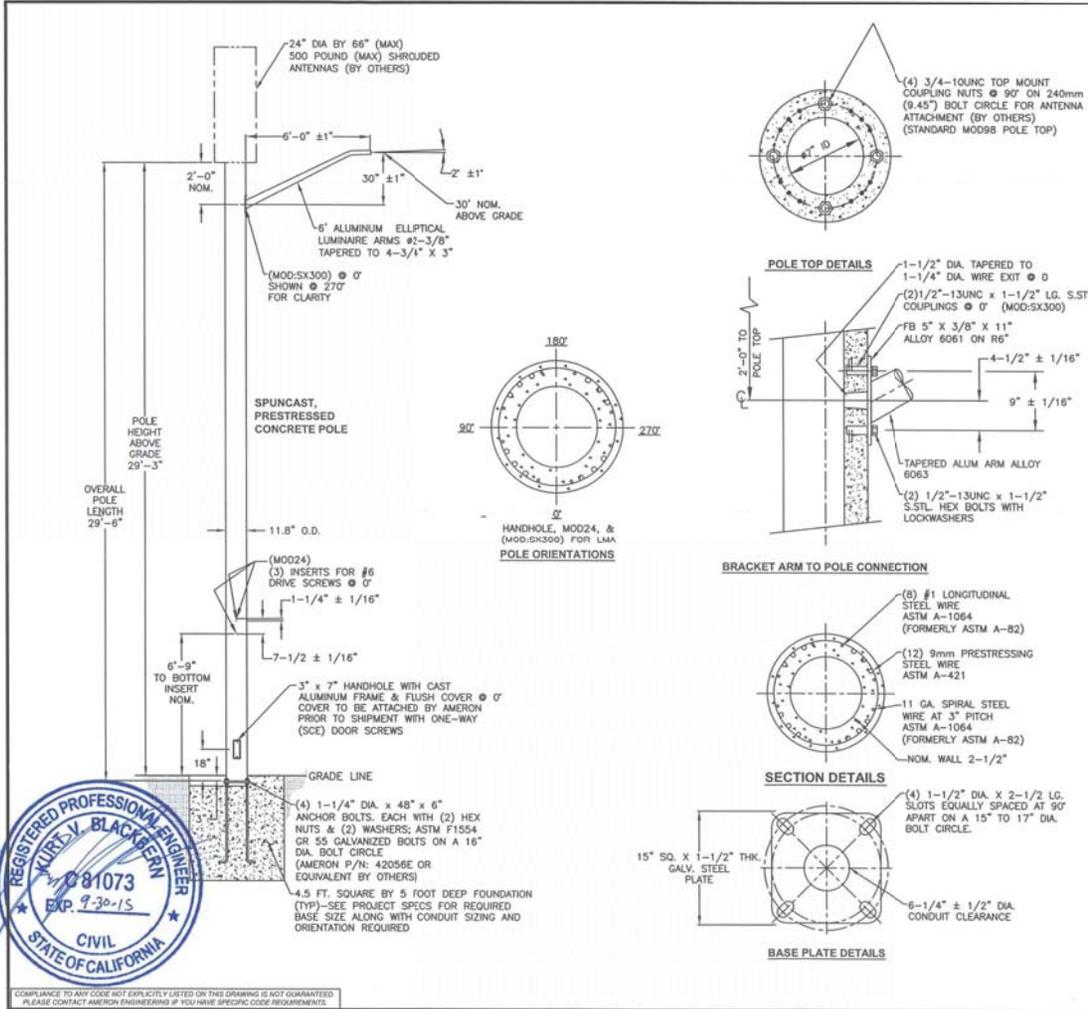
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LA90XSIQQA
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
POLE SPECIFICATION

SHEET NUMBER
EQ-2



REV.	DATE	DESCRIPTION	DRN.	APPR.
A	09/07	REDRAWN, ADDED POLE P/N	A.C.	
B	05/08	UPDATED FOR ORACLE	T.L.	
C	02/10	A/B WERE A36M55, NOW A307	J.C.	
D	06/15	UPDATED TO NEW DWG. STDS.	L.P.	

"F" LEVEL CONFIG CODES			"P" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO.	OPTION CLASS	ENTRY	INFO.
COATING	S		MIX	81	
HH COVER	66546E		FINISH	5	
DOOR SCRS	SCE		BASEPLATE	63250E	
DRILL IN MOD	MOD24		COLLAR	NONE	
			POLE TOP CON.	MOD98	
			CAST-IN MOD	MODSX300	

POLE DESIGN-NATION	POLE HEIGHT ABOVE GRADE	OVERALL POLE LENGTH	BOLT CIRCLE	BASE O.D.	ULTIMATE G.L. MOMENT (ft.-lbs.)	POLE WEIGHT (lbs.)
BP300X09	29'-3"	29'-6"	16"	11-13/16"	65,000	2900

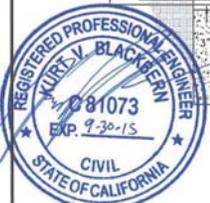
() POLES REQUIRED (P/N: BP300X09-16137), EACH WITH 6" WALL BRACKET ELLIPTICAL ARM (P/N: LAE66A)

- NOTES:**
- MIX (8155): SCE BLACK & WHITE, LIGHTLY EXPOSED AGGREGATE FINISH WITH FLAT WATER SEALER COATING.
 - ASTM C-150 TYPE III GRAY CEMENT.
 - Fc @ 28 DAYS=7,000 PSI, USING SPUN CYLINDER TEST.
 - Fc @ 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.
 - THE POLE DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE SIDE MOUNTED TAPERED ELLIPTICAL ALUMINUM ARM (NOT TO EXCEED 6' OFFSET, 3.7 SQ. FT. EPA, 25 LBS.) WITH THE ARM HOLDING A DOWNWARD FACING AREA OR PENDENT LUMINAIRE (NOT TO EXCEED 2.0 SQ. FT. EPA, 50 POUNDS); THE POLE ALSO SUPPORTS (1) ANTENNA SHROUD CENTERED 3' ABOVE THE POLE TOP (NOT TO EXCEED 6.3 SQ. FT. EPA, 225 LBS. MAX) AS DESIGNED PER THE 2013 AASHTO LTS-4 (CRITERIA FOR STREET LIGHTING POLES), 2010 CALIFORNIA BUILDING CODE & ASC7-05 FOR 90 MPH WIND AND SEISMIC ZONE (3-SECOND GUSTS) & SEISMIC CRITERIA S_e=1.75 & S₁=0.6. PLEASE CONTACT & ADVISE AMERON ENGINEERING IF THE INTENDED VALUES EXCEED THESE VALUES.
 - DUE TO THE NATURE & CHARACTERISTICS OF CONCRETE, SIDE MOUNT SPACING DIMENSIONS CAN ONLY BE TAKEN TO THE NEAREST 1/8 INCH.
- APPROVED BY _____ DATE _____

**SOUTHERN CALIFORNIA EDISON
BP300X09 POLE WITH SINGLE 6' ARM**

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

AMERON POLE PRODUCTS	DRAWN: SJB	DATE: 10/2003
	SCALE: N.T.S.	DWG. NO. 040-01277
	REV: D	



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

PROJECT NO: LA90XSIQ0A
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CHECKED BY: JF

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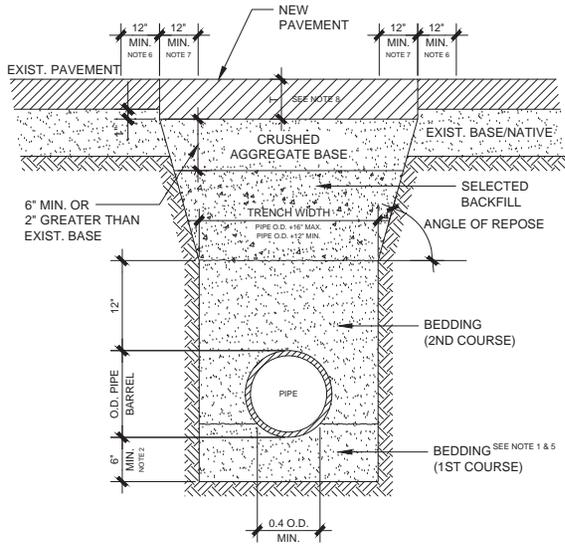
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LA90XSIQ0A
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
EXCAVATION DETAILS

SHEET NUMBER
EX-1



NOTES:

- BEDDING MATERIAL SHALL FIRST BE PLACED SO THAT THE PIPE IS SUPPORTED FOR FULL LENGTH OF THE BARREL WITH FULL BEARING (0.4 O.D. MIN.).
- IN CASES WHERE NATIVE FREE-DRAINING GRANULAR MATERIAL IS SUITABLE FOR USE AS BEDDING, THE TRENCH MAY BE EXCAVATED TO A POINT ABOVE THE INVERT GRADE AND THE TRENCH BOTTOM HAND-SHAPED SO THAT THE BOTTOM SEGMENT OF THE PIPE IS FIRMLY SUPPORTED ON UNDISTURBED MATERIAL.
- IF THE MAXIMUM TRENCH WIDTH IS EXCEEDED, ADDITIONAL BEDDING, ANOTHER TYPE BEDDING OR A HIGHER STRENGTH OF PIPE SHALL BE PROVIDED AS DETERMINED BY THE ENGINEER.
- BEDDING AND BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION, WITH THE EXCEPTION OF THE UPPER SIX (6) INCHES OF SUBGRADE WHICH SHALL BE COMPACTED TO A MINIMUM OF 95 RELATIVE COMPACTION. COMPACTION METHODS SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- BEDDING MATERIAL SHALL BE SAND.
- PRIOR TO INSTALLING FINISH SURFACE COURSE, ASPHALT BASE COURSE PLUS ADDITIONAL MINIMUM 12" WIDTH OF EXISTING PAVEMENT ON BOTH SIDES OF MAIN AND LATERAL EXCAVATIONS SHALL BE COLD PLANED SO AS TO RESULT IN A MINIMUM FINISH SURFACE THICKNESS OF 1.5" AND RECEIVE AN APPLICATION OF TACK COAT.
- SAW CUT AND REMOVE 12" TO CREATE A STRAIGHT EDGE PRIOR TO INSTALLING A.C. BASE COURSE.
- T = PAVEMENT THICKNESS = EXIST. +1" WITH A 4" MIN. FOR A.C. OR 6" MIN. FOR P.C.C. BASE COURSE = C2-AR-4000 MIN 1.5" THICK FINISH COURSE = D2-AR-4000

TRENCH SECTION DETAIL

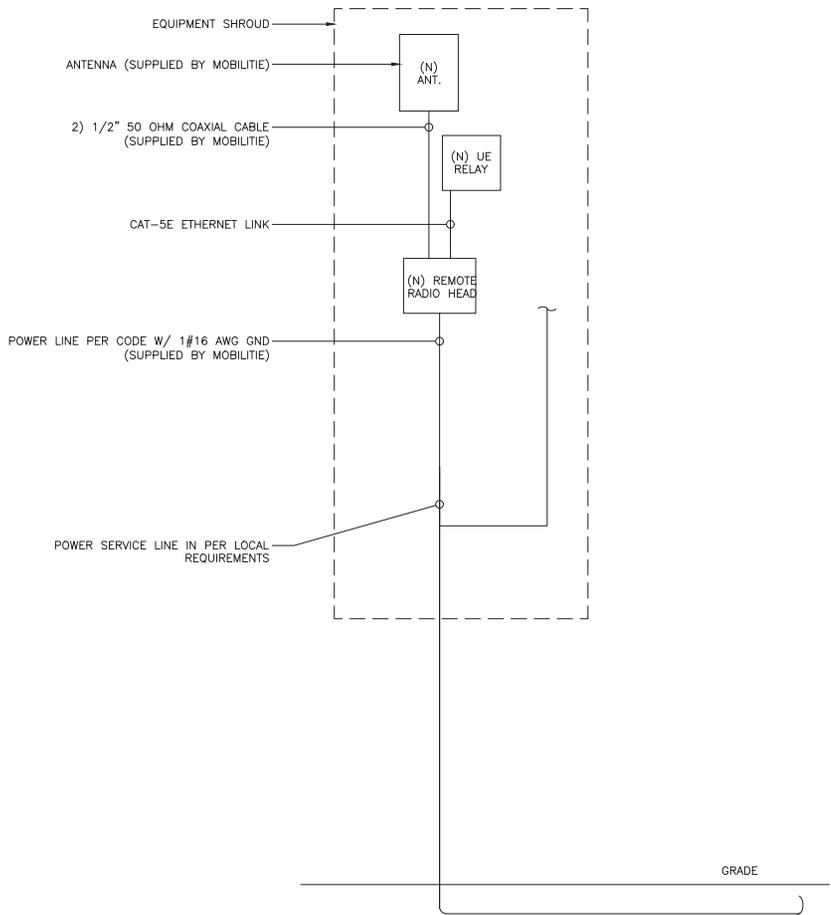
SCALE: NOT TO SCALE

1

NOT USED

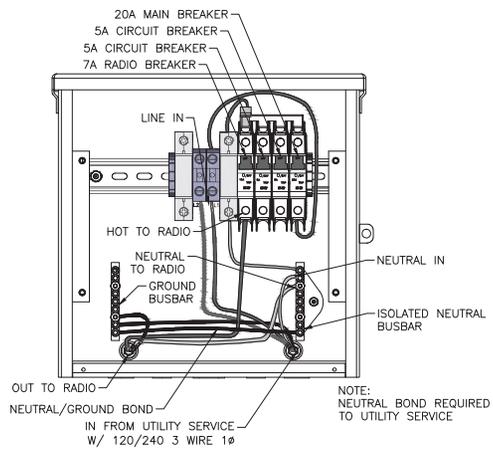
SCALE: NOT TO SCALE

2



ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

1



BREAKER SCHEDULE
SCALE: NOT TO SCALE

2

NOTES:

1. NOMINAL POWER IS CALCULATED AS 80% OF OEM DOCUMENTED MAXIMUM POWER.
2. CALCULATIONS FOR UE W/ NOKIA DO NOT NEED TO INCLUDE THE POWER FOR THE UE ANTENNA AS IT IS INCLUDED IN THE MAX POWER FIGURE. CALCULATIONS FOR UE W/ AIRSPAN MUST INCLUDE UE AS IT IS NOT INCLUDED
3. KVA IS CALCULATED FROM THE CONSUMPTION VALUE ASSUMING A PF=1. MAXIMUM POWER WAS USED FOR KVA. WHERE MAXIMUM WAS NOTED BY THE OEM THE QUOTED FIGURE WAS USED. WHERE AVERAGE/NOMINAL POWER WAS NOTED BY THE OEM MAXIMUM POWER WAS CALCULATED BY INCREASING AVERAGE/NOMINAL POWER BY A FACTOR OF 1.0

Nokia Scenario 5 B41 High Power Radio and Aispan UE Backhaul						
Unit	Sub Description	Max Power (W)	Max Current (A)	KVA	kWh/Yr	
NSN - B41 High	LTE Base Station	360	4.00	0.36	3153.6	
Airspan IR460	UE Relay	N/A	N/A	N/A	N/A	
Total		360	4.00	0.36	3153.6	

LOAD CALCULATIONS
SCALE: NOT TO SCALE

3



PROJECT NO: LA90XSIQ0A
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CHECKED BY: JF

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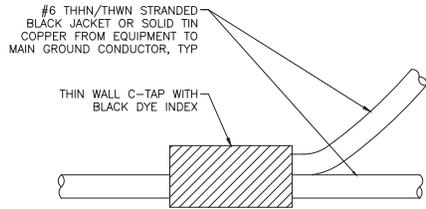
NOT FOR CONSTRUCTION

LA90XSIQ0A
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
ELECTRICAL

SHEET NUMBER
E-1

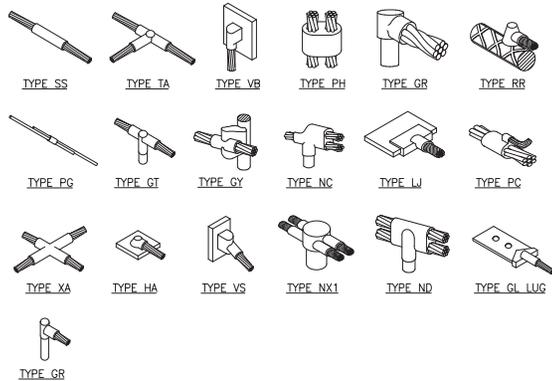
NOTE:
CONTRACTOR TO SURROUND COMPLETED CONNECTION WITH HEAT-SHRINK TUBING TO ENSURE WEATHER PROOF CONNECTION



C-TAP DETAIL

SCALE: NOT TO SCALE

1

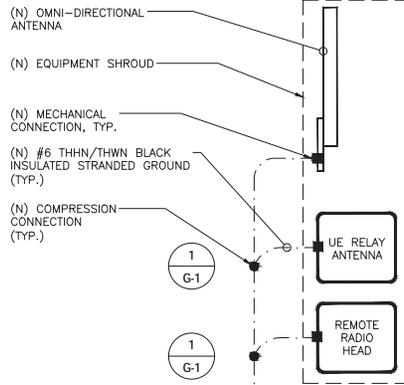


- GROUNDING BONDS:** ALL BONDS ARE TO BE MADE WITH #2 AWG STRANDED COPPER IN BLACK INSULATION. (ATT-TP-76416 7, 6.7)
- EXTERIOR UNIT BONDS:** ALL METALLIC OBJECTS SHALL BE BONDED TO THE GROUND ROD. (ATT-TP-76416 7, 12.6)
- GROUND ROD:** UL LISTED COPPER CLAD STEEL GROUND ROD WITH MINIMUM DIAMETER OF 5/8" AND MINIMUM LENGTH OF 8 FEET. ALL GROUND RODS MAY BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 30" BELOW GRADE OR 6 INCHES BELOW FROST LINE. (ATT-TP-76416 1.4 / 2.2, 3, 10)

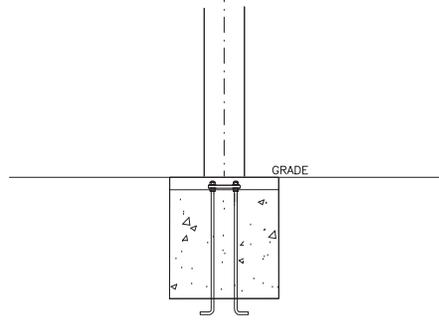
WELD CONNECTION DETAILS

SCALE: NOT TO SCALE

2



#6 SOLID TIN COATED MAIN GROUND CONDUCTOR ROUTED INSIDE (N) CONCRETE POLE



●	COMPRESSION CONNECTION	---	GROUND WIRE
■	MECHANICAL CONNECTION	⊥	GROUND
TT	COPPER GROUND BAR (GB)		
⊙	5/8" x 8' COPPER CLAD STEEL GROUND ROD		

GROUNDING SYMBOLS

- NOTES:**
- GROUNDING RISER FOR DIAGRAMMATIC PURPOSES ONLY. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.
 - ALL RGS TO BE GROUNDED AT BOTH ENDS USING GROUNDING BUSHINGS
 - GROUND WIRE BELOW 11' AGL TO BE RUN IN 1/2" SCHEDULE 40 PVC

GROUNDING RISER DIAGRAM

SCALE: NOT TO SCALE

3



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CHECKED BY:	JF

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LA90XSIQ0A
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1

PEDESTRIAN NOTES:
 A DEDICATED INDIVIDUAL WILL BE ASSIGNED THE RESPONSIBILITY OF ESCORTING PEDESTRIANS THROUGH THE WORK AREA IN ACCORDANCE WITH THREE MAJOR CONSIDERATIONS.

1. PEDESTRIANS SHOULD NOT BE LED INTO DIRECT CONFLICT WITH WORK SITE VEHICLES, EQUIPMENT OR OPERATIONS.
2. PEDESTRIANS SHOULD NOT BE LED INTO DIRECT CONFLICT WITH MAINLINE TRAFFIC MOVING THROUGH OR AROUND THE WORK SITE.
3. PEDESTRIANS SHOULD BE PROVIDED WITH A REASONABLE SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS NEARLY AS PRACTICAL THE MOST DESIRABLE CHARACTERISTICS OF THE EXISTING SIDEWALK OR FOOTPATH

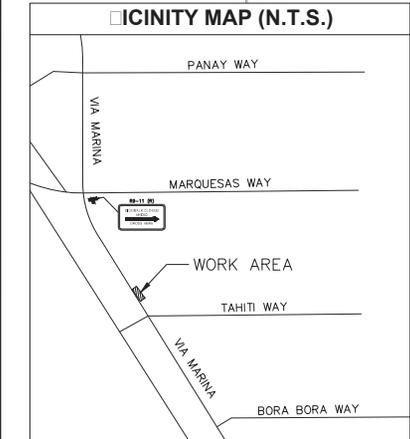
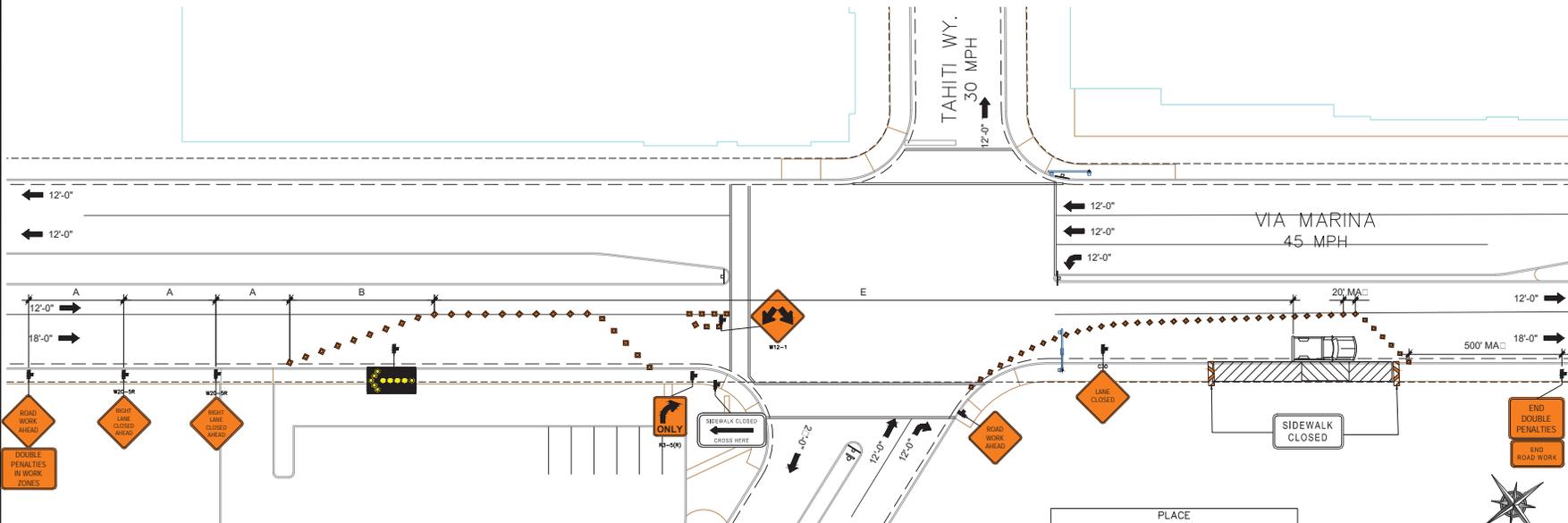
DIMENSIONS	FEET
A (DISTANCE BETWEEN SIGNS)	250
B (MINIMUM MERGING TAPER L)	320
C (MINIMUM SHIFTING TAPER 1/2 L)	160
E (BUFFER SPACE)	315

EXCAVATION DATA IN CITY RIGHT OF WAY	
EXCAVATION IN CONCRETE SIDEWALK	8 SQ FT
EXCAVATION IN DIRT LANDSCAPE	75 SQ FT
EXCAVATION IN ASPHALT STREET	200 SQ FT
TOTAL EXCAVATION	283 SQ FT

WORK HOURS: 9:00 A.M. TO 3:00 P.M. MON - FRI
 CROSS STREET: VIA MARINA & TAHITI WY.
 WORK TYPE: UTILITIES
 NEAREST ADDRESS: 4314-4348 VIA MARINA, MARINA DEL, CA 90292

NOTE:
 PLACE STEEL PLATES OVER OPEN TRENCH TO ALLOW ACCESS TO DRIVEWAYS

LINE TYPE LEGEND	
—	CENTER LINE
- - -	LANES
- · - · -	GUTTER
- - - - -	CURB/SIDEWALK



TRAFFIC CONTROL PLAN GENERAL NOTES

1. ALL ORDER AND MATERIALS DOES COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
2. ALL SIGNING AND MARKINGS DOES CONFORM TO THE STATE OF CALIFORNIA, STANDARD PLANS AND SPECIFICATIONS, INCLUDING STANDARD PLAN A-20, DETAILS.
3. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES, AND DRIVEWAYS AT ALL TIMES.
4. FLASHING YELLOW BEACONS, TYPE B, SHALL BE USED ON ALL 20" SIGNS AND ON ALL TYPE B BARRICADES GUARDING THE WORK AREA OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TRIPOLIAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT. REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO RESERVE THEIR APPEARANCE AND CONTINUIT. AND SHALL INCLUDE A 12" HIGH INTENSIFIED REFLECTORIZED SLEEVE, IF USED DURING NIGHT-TIME WORKS.
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ADJACENT PROPERTIES OWNERS.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS, OR BARRICADING MATERIALS REQUIRED IN THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED ON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-OPERATING HOURS. REMOVE BARRICADES ETC. FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-OPERATING HOURS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY SET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW TEMPORARY SIGNING. ALL CONFLICTING RAISED PAVEMENT MARKINGS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKINGS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
15. ALL ROAD CLOSURES REQUIRE REMOVAL FROM DEPARTMENT OF PUBLIC WORKS. UPON COMPLETION OF EXCAVATION, CONTRACTOR SHALL RESTORE AND PAVEMENT MARKINGS AND SIGNING THAT IS REMOVED DURING CONSTRUCTION.
16. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO TRAFFIC SIGNAL EQUIPMENT SUCH AS LOOP DETECTORS, CONDITION, ETC.
17. CONTRACTOR SHALL CONTACT TRANSIT AUTHORITY 72 HOURS PRIOR TO START OF CONSTRUCTION TO TEMPORARILY RELOCATE BUS STOPS.
18. ALL EXCAVATIONS SHALL BE BACKFILLED OR TRENCHES LATED AT THE END OF EACH WORK DAY. ALL MATERIALS SHALL BE LACED AND EACH TRENCH SHALL BE REVERT TO THE STATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCHES DURING NON-OPERATING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED.
19. TEARDOWN AND SET TEMPORARY TRAFFIC CONTROL DEVICES DAILY.
20. CONTRACTOR SHALL CONTACT LADOT AT 213-285-2288 FIVE BUSINESS DAYS PRIOR TO CONSTRUCTION TO POST TEMPORARY NO STOPPING AN TIME SIGNS AND COVER LANDING METERS.

PLACE R9-11 (R) SEPARATE CLOSED AHEAD SIGN HERE AT THE CORNER OF VIA MARINA AND MARQUESAS WAY

LEGEND	
	= TRAFFIC CONE
	= WORK AREA
	= TYPE 3 BARRICADES
	= PORTABLE SIGN
	= ARROW BOARD
	= WORK VEHICLE

IF YOU DIG IN ANY STATE DIAL 811 FOR THE LOCAL "ONE CALL CENTER" - IT'S THE LAW

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



PROJECT NO: LA90XSIQQA
 DRAWN BY: K.C.
 CHECKED BY: JF

NO	DATE	DESCRIPTION
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LA90XSIQQA
 MARINA DEL REY, CA 90292
 (N) CONCRETE LIGHT POLE

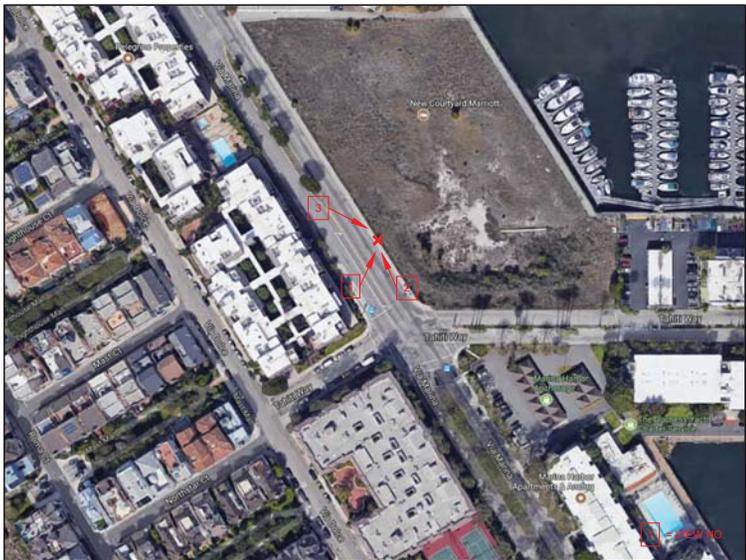
SHEET TITLE
 CIRCULAR TRAFFIC CONTROL PLAN

SHEET NUMBER
 TC-01

MOBILITIE, LLC

PHOTO SIMULATION

FOR NEW SMALL CELL SITE LOCATED AT:
VIA MARINA & TAHITI WAY. | MARINA DEL REY, CA 90292
SITE ID: LA90XSIQ0A



VICINITY MAP

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PREVIEW

SITE DESCRIPTION:
NEW SMALL CELL SITE
WITHIN EXISTING RIGHT
OF WAY

VIEWS: 3

SHEET INDEX
SHEET 2: VIEW 1
SHEET 3: VIEW 2
SHEET 4: VIEW 3

DATE: 12.19.17

SHEET: 1 / 4

Photo Simulation By:



Photo Simulation

This photographic simulation is intended as a visual representation only and is not to be used for construction purposes. Accuracy of photo simulation is based on information provided by project applicant.

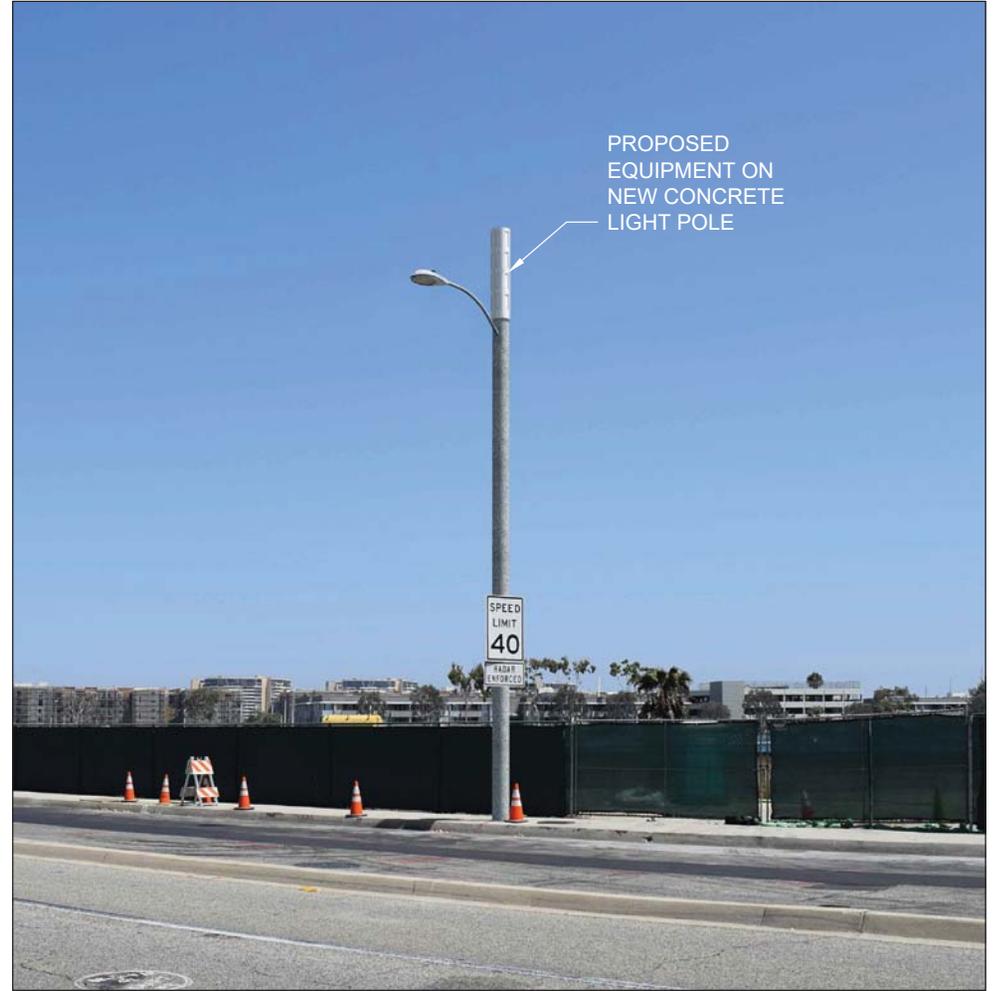
MOBILITIE, LLC

Site ID: LA90XSIQ0A

POLE TYPE: NEW CONCRETE LIGHT POLE
VIA MARINA
MARINA DEL REY, CA 90292



EXISTING VIEW



PROPOSED VIEW

VIEW 1 - LOOKING NORTHEAST FROM VIA MARINA

DATE: 12.19.17

Photo Simulation By:



Photo Simulation

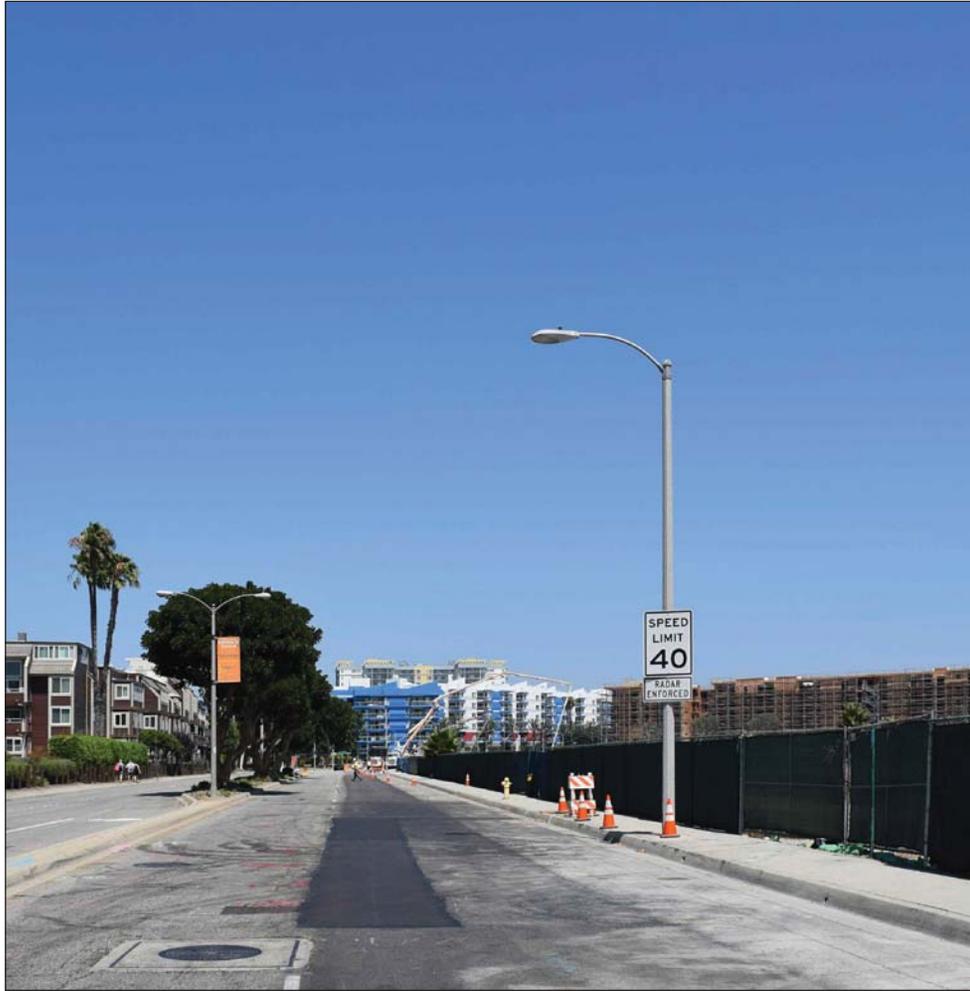
This photographic simulation is intended as a visual representation only and is not to be used for construction purposes. Accuracy of photo simulation is based on information provided by project applicant.

MOBILITIE, LLC

Site ID: LA90XSIQ0A

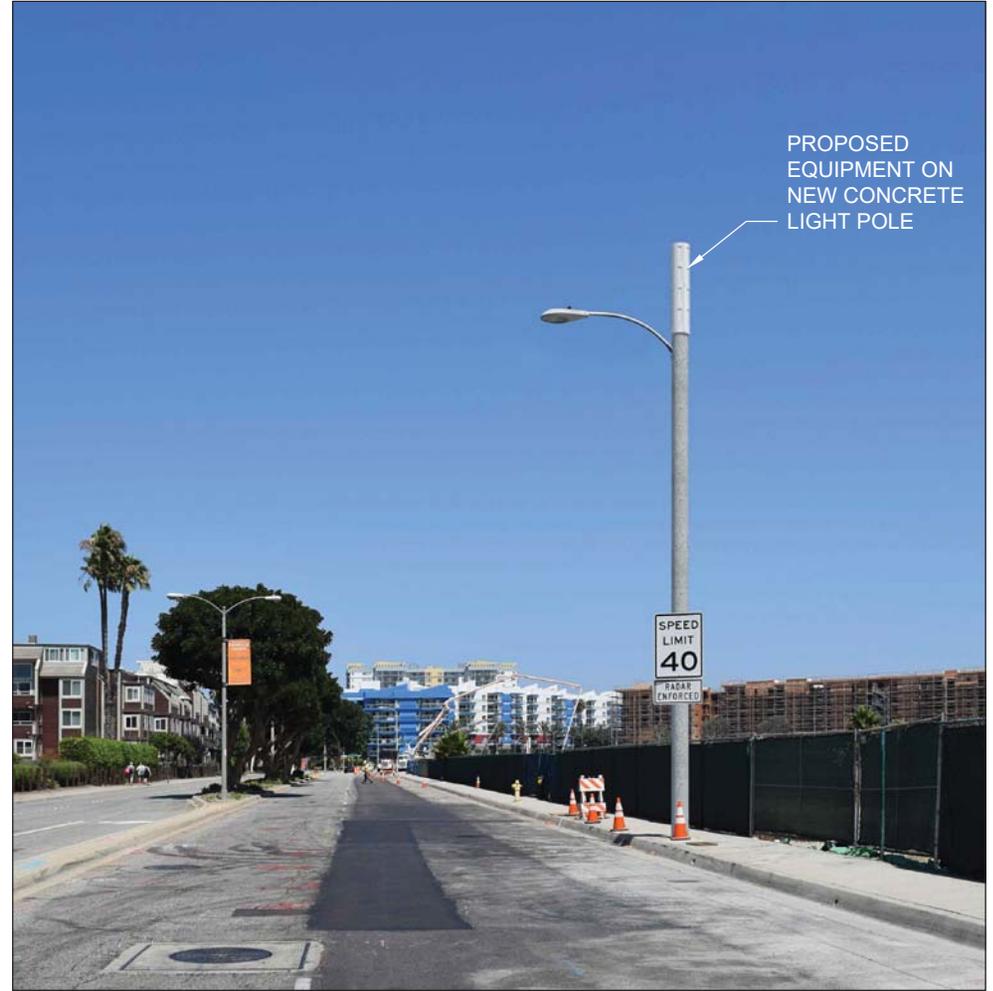
POLE TYPE: NEW CONCRETE LIGHT POLE

VIA MARINA
MARINA DEL REY, CA 90292



EXISTING VIEW

DATE: 12.19.17



PROPOSED VIEW

VIEW 2 - LOOKING NORTHWEST FROM VIA MARINA

SHEET: 3 / 4

Photo Simulation By:

Tangent
SYSTEMS
424-262-4167 | tangent.systems

Photo Simulation

This photographic simulation is intended as a visual representation only and is not to be used for construction purposes. Accuracy of photo simulation is based on information provided by project applicant.

MOBILITIE, LLC

Site ID: LA90XSIQ0A
POLE TYPE: NEW CONCRETE LIGHT POLE
VIA MARINA
MARINA DEL REY, CA 90292



EXISTING VIEW



PROPOSED VIEW

VIEW 3 - LOOKING SOUTHEAST FROM VIA MARINA

DATE: 12.19.17

Photo Simulation By:



Photo Simulation

This photographic simulation is intended as a visual representation only and is not to be used for construction purposes. Accuracy of photo simulation is based on information provided by project applicant.

MOBILITIE, LLC

Site ID: LA90XSIQ0A

POLE TYPE: NEW CONCRETE LIGHT POLE

VIA MARINA
MARINA DEL REY, CA 90292

GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST ADOPTED EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
2. CONTRACTOR SHALL CONSTRUCT SITE IN ACCORDANCE WITH THESE DRAWINGS AND LATEST MOBILITIE CONSTRUCTION STANDARDS. THE SPECIFICATION IS THE RULING DOCUMENT AND ANY DISCREPANCIES BETWEEN THE SPECIFICATION AND THE CONSTRUCTION DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OR MOBILITIE CM PRIOR TO THE COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE (N) WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED, AS SHOWN, PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OR MOBILITIE CM PRIOR TO THE COMMENCEMENT OF WORK. NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OF FIELD CONDITIONS.
4. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL ANY/ALL ITEMS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM SUBJECT ONLY TO OWNER-SUPPLIED ITEMS. CONTRACTOR SHALL PROVIDE ANY/ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
5. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. OWNER PROVIDED AND CONTRACTOR INSTALLED MATERIALS WILL INCLUDE THE FOLLOWING, UNLESS NOTED OTHERWISE:
 - A) TRANSMITTER
 - B) UHF ANTENNA AND MOUNTING BRACKETS, GPS ANTENNAS AND KU ANTENNAS
 - C) UHF COAX AND HANGERS
 - D) INTEGRATED LOAD CENTER
6. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, (E) CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ANY DISCREPANCIES TO THE ATTENTION OF THE MOBILITIE CM, IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.
7. DETAILS PROVIDED ARE FOR THE PURPOSE OF SHOWING DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR SITE CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
8. CONTRACTOR SHALL PAY FOR APPLICABLE PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO ORDERING MATERIALS AND THE COMMENCEMENT OF WORK.
9. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
10. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
11. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING ACCEPTED INDUSTRY-STANDARD SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
13. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE MOBILITIE CM AND SCHEDULE THEIR ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
15. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
16. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT (E) SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING ETC. AND IMMEDIATE REPAIR, TO NEW CONDITION, ANY DAMAGE THAT OCCURS DURING CONSTRUCTION AT THE SOLE COST OF THE CONTRACTOR.
17. IN DRILLING HOLES, OR CORING, INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., MUST BE CLEARLY UNDERSTOOD THAT REINFORCING

STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE LOCATED BY THE CONTRACTOR USING APPROPRIATE METHODS AND EQUIPMENT PRIOR TO ANY DRILLING OR CORING OPERATIONS IN (E) CONCRETE.

1. CONTRACTOR SHALL REPAIR, TO NEW CONDITION, ALL (E) WALL SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACES.
2. CONTRACTOR SHALL SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES OR MATERIALS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS AND SYSTEMS THAT MEET OR EXCEED THE RATING OF THE ASSEMBLY IN WHICH THE NEW PENETRATION IS PLACED.
3. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
4. MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
5. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO (E) SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH JURISDICTIONAL OR STATE AND LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATED WITH LOCAL REGULATORY AUTHORITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ANY EROSION CONTROL MEASURES, RECORD-KEEPING, MONITORING, AND REPORTING TO THE OWNER AND REGULATORY AUTHORITIES.
6. ALL CONSTRUCTION WORK IS TO ADHERE TO APPLICANT'S INTEGRATED CONSTRUCTION STANDARDS UNLESS STATE OR LOCAL CODE IS MORE STRINGENT.
7. THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PERFORM THE CONSTRUCTION IN ACCORDANCE PER STATE BUILDING STANDARDS CODE AND STATE CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISHED WORK WILL NOT COMPLY PER STATE CODE OF REGULATIONS, A SCOPE OF WORK DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE JURISDICTION BEFORE PROCEEDING WITH THE WORK. A CHANGE ORDER FOR THAT SCOPE SHALL BE SUBMITTED TO THE MOBILITIE CM PRIOR TO PROCEEDING WITH THE WORK.
8. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
9. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE. ANY CORRECTIVE WORK SHALL BE COMPLETED AT THE SOLE COST OF THE CONTRACTOR.

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY MOBILITIE CM AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE MOBILITIE CM HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL (E) CONDITIONS OF ELECTRICAL EQUIP., ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF THEIR BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC, ALL CODES AND ORDINANCES OF THE LOCAL JURISDICTION, AND POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT ARE NOT BE LIMITED TO:

- A) UL – UNDERWRITERS LABORATORIES
 - B) NEC – NATIONAL ELECTRICAL CODE
 - C) NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 - D) OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
 - E) SBC – STANDARD BUILDING CODE
 - F) NFPA – NATIONAL FIRE PROTECTION AGENCY
 - G) ANSI – AMERICAN NATIONAL STANDARDS INSTITUTE
 - H) IEEE – INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
 - I) ASTM – AMERICAN SOCIETY FOR TESTING MATERIALS
4. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH MOBILITIE CM ANY SIZES AND LOCATIONS WHEN NEEDED.
 5. (E) SERVICES: CONTRACTOR SHALL NOT INTERRUPT (E) SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
 6. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC... ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE MOBILITIE CM, PRIOR TO BEGINNING ANY WORK.
 7. MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION, UNLESS OTHERWISE NOTED.
 8. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
 9. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
 10. ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY APPLICANT.
 11. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY FUNCTIONAL, AND SHALL BE APPROVED BY THE MOBILITIE CM AND LOCAL JURISDICTION. ANY DEFICIENCIES SHALL BE CORRECTED BY AN ELECTRICAL CONTRACTOR AT THE SOLE COST OF THE CONTRACTOR.
 12. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.



1572 N. BATAVIA ST., STE. 1D
ORANGE, CA 92667

PROJECT NO: LA90XSGQ4A
DRAWN BY: MG
CHECKED BY: JF

2	12/19/17	CLIENT COMMENTS
1	11/27/17	UC INCORPORATED
0	06/09/17	90% CONSTRUCTION DRAWINGS

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

NOT FOR CONSTRUCTION

LA90XSGQ4A
MARINA DEL REY, CA 90292
NEW CONCRETE LIGHT POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

ELECTRICAL NOTES CONT'D

13. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
14. CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
15. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS 'EXCAVATION, AND BACKFILLING.
16. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IECE.
17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURER'S CATALOG INFORMATION OF ANY/ALL EQUIPMENT AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE MOBILITIE CM PRIOR TO INSTALLATION.
18. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE MOBILITIE CM UPON FINAL ACCEPTANCE.
19. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
20. DISCONNECT SWITCHES SHALL BE UL-RATED, H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
21. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND KNOWN AS "NO-OXIDE A" BY DEARBORN CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
22. RACEWAYS: CONDUIT SHALL BE SCHEDULE 80 PVC MEETING OR EXCEEDING NEMA TC2 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH "BRITZ ZINC" OR "COLD GALV".
23. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
24. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, UNLESS OTHERWISE NOTED, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
25. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
26. SERVICE: AS SPECIFIED ON THE DRAWINGS, OWNER OR OWNER'S AGENT WILL APPLY FOR POWER. ALL PROVISIONS FOR TEMPORARY POWER WILL BE OBTAINED BY THE CONTRACTOR.
27. TELEPHONE OR FIBER SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
28. ELECTRICAL AND TELCO/FIBER RACEWAYS TO BE BURIED A MINIMUM DEPTH OF 30", UNLESS OTHERWISE NOTED.
29. CONTRACTOR SHALL PLACE 6" WIDE DETECTABLE WARNING TAPE AT A DEPTH OF 6" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS, CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM".
30. ALL BOLTS SHALL BE 3-16 STAINLESS STEEL

GROUNDING NOTES:

1. ALL HARDWARE SHALL BE 3-16 STAINLESS STEEL, INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND, AS SPECIFIED, BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
3. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.
4. ALL ELECTRICAL AND GROUNDING AT THE POLE SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

5. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.

6. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #6 GROUND WIRES. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS.

7. ALL GROUND CONNECTIONS SHALL BE #6 AWG, UNLESS OTHERWISE NOTED. ALL WIRES SHALL BE COPPER WITH THIN, UNLESS OTHERWISE NOTED. ALL GROUND WIRE SHALL BE SOLID TIN COATED OR STRANDED GREEN INSULATED WIRE.

8. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, 10 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE MOBILITIE CM.

9. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.

10. ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE/ 6" BELOW FROST-LINE IN TRENCH, UNLESS OTHERWISE NOTED. BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT/ENGINEER.

11. ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.

12. ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
12.A. RNDY, HY-GRADE U.L. LISTED CONNECTORS FOR OUTDOOR USE OR AS APPROVED BY APPLICANT PROJECT MANAGER. CADWELD, EXOTHERMIC WELDS WELDED CONNECTIONS).

12.B. ONE (1) HOLE TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS.

13. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES) AND WEATHER-PROOFED WITH HEAT SHRINK.

14. ALL CONNECTION HARDWARE SHALL BE TYPE 3-16 STAINLESS STEEL (NOT ATTRACTED TO MAGNETS). ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH NEC, ARTICLE 250-82 AND SHALL BOND ALL (E) AND NEW GROUNDING ELECTRODES. NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS.

TESTING AND EQUIPMENT TURN UP REQUIREMENTS:

1. RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT TESTING WILL COMPLY WITH CURRENT INDUSTRY STANDARDS AND OR THOSE STANDARDS OF THE EQUIPMENT MANUFACTURER OR PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.

2. CONTRACTOR WILL USE THE APPROPRIATE CALIBRATED TESTING EQUIPMENT IN THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT THAT MEET INDUSTRY STANDARDS OF THE MANUFACTURER OR THOSE STANDARDS PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.

3. CONTRACTOR TO VERIFY AND RECORD ALL TEST RESULTS AND PROVIDE THESE RESULTS WITHIN THE FINAL CLOSE OUT PACKAGE.

4. ALL PERSONNEL INVOLVED IN THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT WILL BE REQUIRED TO HAVE BEEN TRAINED AND OR CERTIFIED IN THE PROPER TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT.

5. ALL TEST RESULTS SHALL BE TIME STAMPED, RECORDED AND PRESENTED PRIOR TO ENERGIZING AND TURN UP OF ANY EQUIPMENT.

6. GPS EQUIPMENT IS NOT TO BE TESTED OR ATTACHED TO ANY CABLING DURING TESTING, DOING SO WILL DAMAGE THE GPS UNIT.

7. PRIOR TO TESTING IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE TESTING PROCEDURES THEY ARE TO CALL AND OBTAIN ASSISTANCE FROM A QUALIFIED DESIGNATED TESTING REPRESENTATIVE.

8. EQUIPMENT IS NOT TO BE ENERGIZED UNTIL ALL TESTING HAS BEEN COMPLETED, APPROVED AND THE APPROPRIATE AUTHORITY HAS BEEN NOTIFIED AND GIVES APPROVAL TO ENERGIZE THE EQUIPMENT.

SITE WORK NOTES:

1. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.

2. 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 ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.

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

4. CONTRACTOR SHALL VERIFY ALL (E) UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER OR MOBILITIE CM FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT THEIR OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL LOCAL UTILITY LOCATE HOT LINE, SUCH AS 811, FOR UTILITY LOCATIONS A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

5. ALL NEW AND (E) UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK. ANY COST RELATED TO ADJUSTING (E) STRUCTURES SHALL BE BORNE SOLELY BY THE CONTRACTOR.

6. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO (E) GRADES AT THE GRADING LIMITS.

7. 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.



PROJECT NO:	LA90XSGQ4A
DRAWN BY:	MG
CHECKED BY:	JF

2	12/19/17	CLIENT COMMENTS
1	11/27/17	UC INCORPORATED
0	06/09/17	90% CONSTRUCTION DRAWINGS

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NOT FOR CONSTRUCTION

LA90XSGQ4A
MARINA DEL REY, CA 90292
NEW CONCRETE LIGHT POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2

SITE WORK NOTES CONT'D

- 8. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY, UNLESS OTHERWISE NOTED.
- 9. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
- 10. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
- 11. ANY FILLS PLACED ON (E) SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE (E) SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
- 12. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO DEBRIS, PAPER, TRASH, WEEDS, BRUSH, EXCESS FILL, OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
- 13. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
- 14. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

ENVIRONMENTAL NOTES:

- 1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
- 3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES AS REQUIRED BY THE LOCAL JURISDICTION WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
- 4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSION CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE. ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
- 7. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
- 8. SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
- 9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE, BUT IS NOT LIMITED TO SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
- 10. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

- 11. GC TO PLACE FILTER MATERIAL AT ALL CATCH BASINS ADJACENT TO CONSTRUCTION SITE TO PREVENT SOLID WASTE CONTAMINATION FROM ENTERING SEWER SYSTEM

FOUNDATION, EXCAVATION AND BACKFILL NOTES:

- 1. ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL, UNLESS OTHERWISE NOTED.
- 2. BACKFILL OF POLE SHALL BE PERFORMED IN ONE OF THREE OPTIONS:
 - A. PREFERRED: RAINBOW INDUSTRIES POLE SETTING FOAM SHALL BE INSTALLED PER MANUFACTURER SPECS. FOAM SHALL ALWAYS BE USED FOR POOR SOILS.
 - B. SECONDARY: CONCRETE (REQUIRES MOBILITE CM WRITTEN APPROVAL) ALLOWABLE SOIL PRESSURE = 2000 PSF (ASSUMED). NON-NATIVE SOILS SHALL BE REMOVE FROM BORE AREA AND SHALL NOT BE REUSED FOR BACKFILL
- 9. ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
- 10. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL, IF ADEQUATE BEARING CAPACITY IS NOT ACHIEVED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
- 11. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
- 12. ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557.
- 13. NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING.
- 14. FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
- 15. NEWLY GRADED GRAVEL SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: TYPAR-3401 AS MANUFACTURED BY TYPAR GEOSYNTHETICS OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENCE OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED, I.E. FDOT TYPE NO. 57 FOR FENCED COMPOUND; FDOT TYPE NO. 67 FOR ACCESS DRIVE AREA, UNLESS OTHERWISE NOTED.
- 16. IN ALL AREAS TO RECEIVE FILL: REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH (E)/PREPARED SOIL SURFACE.
- 17. WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOILS AND RECOMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
- 18. IN AREAS WHICH (E) GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION

AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.

- 19. (E) GRAVEL SURFACING MAY NOT BE REUSED.
- 20. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE.
- 21. PROTECT (E) GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING 'MATTIS' OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR ANY DAMAGE TO (E) GRAVEL SURFACING OR SUB GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTORS OPERATIONS.
- 22. DAMAGE TO (E) STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/ OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
- 23. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.



1572 N. BATAVIA ST., STE. 1D
ORANGE, CA 92667

PROJECT NO: LA90XSGQ4A

DRAWN BY: MG

CHECKED BY: JF

2	12/19/17	CLIENT COMMENTS
1	11/27/17	UC INCORPORATED
0	06/09/17	90% CONSTRUCTION DRAWINGS

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NOT FOR CONSTRUCTION

LA90XSGQ4A
MARINA DEL REY, CA 90292
NEW CONCRETE LIGHT POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-3

T.O. (E) LIGHT POLE
±45'-0" AGL

(E) LUMINAIRE

(E) 45' CONCRETE LIGHT
POLE TO BE REMOVED AND
REPLACED BY SCE

FINISHED GRADE
0'-0" AGL

EXISTING REAR ELEVATION

(N) EQUIPMENT SHROUD

(N) OMNI ANTENNA MOUNTED
WITHIN (N) SHROUD

(N) RADIO HEAD MOUNTED
WITHIN (N) SHROUD

(N) UE RELAY MOUNTED
WITHIN (N) SHROUD

(N) 29'-3" CONCRETE
LIGHT POLE W/ (N)
EQUIPMENT

(N) POWER CABLE TO
BE RUN INSIDE (N)
CONCRETE POLE

(1) (N) 2" RIGID
CONDUIT FOR POWER
TO BE INSTALLED BY
POWER COMPANY

(N) MOBILITE HANDHOLE
W/(N) 5A IN-LINE FUSE/
WTR BOX, MIN. 3'-0"
FROM SCE HANDHOLE

(N) SCE
HAND HOLE

(N) 5/8"Øx8'-0"
COPPER-CLAD STEEL
GROUND ROD

T/O (N) ANTENNA
±34'-8"

℄ OF (N) ANTENNA
±33'-10"

℄ OF (N) RRH
±31'-9"

℄ OF (N) UE RELAY
±30'-5"

T.O (N) POLE
± 29'-3"

(E) 45' CONCRETE LIGHT
POLE TO BE REMOVED AND
REPLACED BY SCE

3'-0"

FINISHED GRADE
0'-0" A.G.L

NEW REAR ELEVATION

mobilitie
intelligent infrastructure

XD Industries
1572 N. BATAVIA ST., STE. 1D
ORANGE, CA 92667

PROJECT NO: LA90XSGQ4A

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CONSTRUCTION**

LA90XSGQ4A
MARINA DEL REY, CA 90292
NEW CONCRETE LIGHT POLE

SHEET TITLE
POLE ELEVATIONS

SHEET NUMBER
EV-1

POLE ELEVATIONS

SCALE: 3/16" = 1'-0" (3/8" = 1'-0" ON 22"x34" SHEET)

1

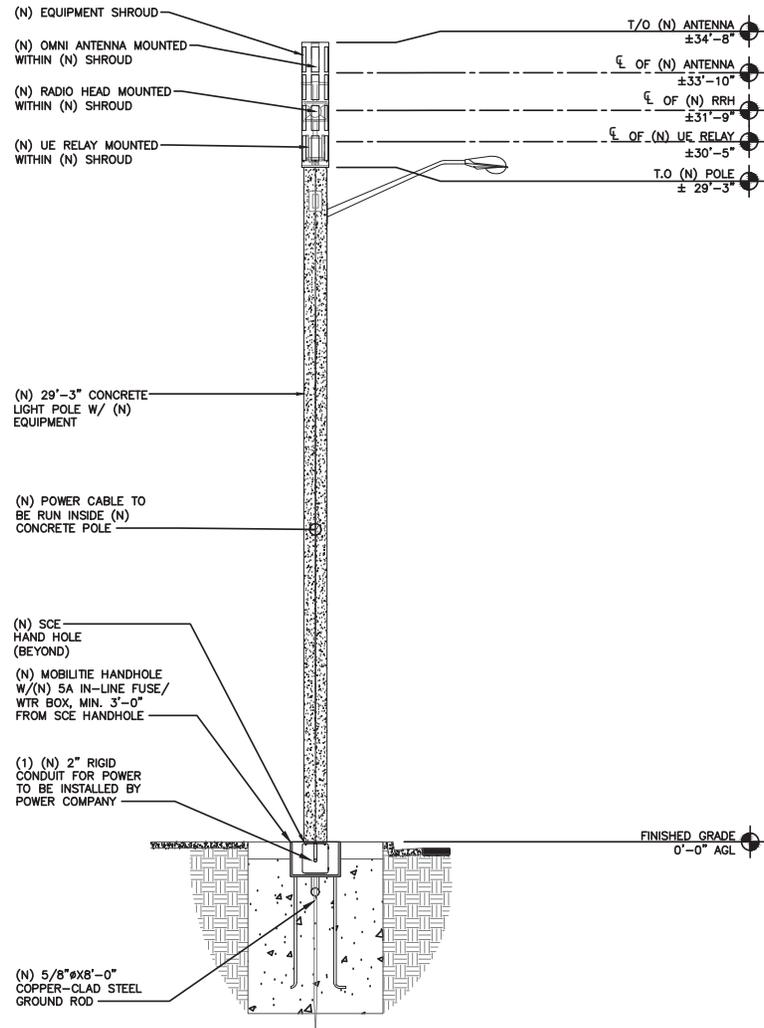
T.O. (E) LIGHT POLE
±45'-0" AGL

(E) LUMINAIRE

(E) 45' CONCRETE LIGHT POLE TO BE REMOVED AND REPLACED BY SCE

FINISHED GRADE
0'-0" AGL

EXISTING SIDE ELEVATION



NEW SIDE ELEVATION

POLE ELEVATIONS

SCALE: 3/16" = 1'-0" (3/8" = 1'-0" ON 22"x34" SHEET)

1



PROJECT NO:	LA90XSGQ4A
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2	12/19/17	CLIENT COMMENTS
1	11/27/17	UC INCORPORATED
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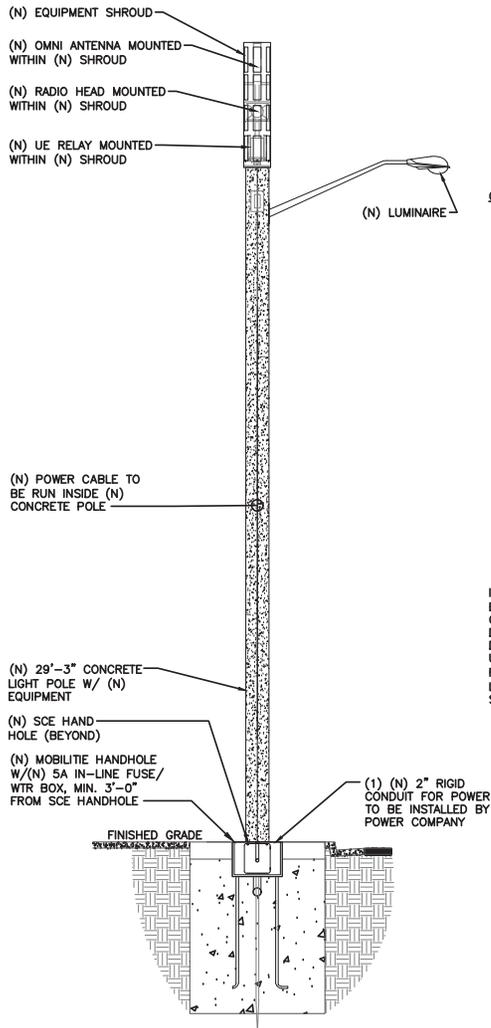
NOT FOR CONSTRUCTION

LA90XSGQ4A
MARINA DEL REY, CA 90292
NEW CONCRETE LIGHT POLE

SHEET TITLE
POLE ELEVATIONS

SHEET NUMBER
EV-2

NOTE:
 1. CABLING DIAGRAM IS FOR CLARITY OF CABLE ROUTE AND TERMINATION ONLY. CONTRACTOR SHALL INSTALL CABLES WITH MINIMAL VISUAL IMPACT ON NEW CONCRETE LIGHT POLE. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.



CABLING NOTES:

A) WOOD, CONCRETE AND EXISTING METALLIC POLES
 I) GROUNDING CONDUCTORS IN EXPOSED LOCATIONS MUST BE INSTALLED IN PVC.
 II) IN EARTH INSTALL PVC CONDUIT FOR BACKHAUL AND ELECTRICAL SERVICE. TRANSITION TO RGS AT GRADE LINE.
 (1) UTILIZE 1/2" COAX BLOCKS WITH LAG SCREWS TO SUPPORT COAX, RADIO AND MW POWER, RF COAX, AND ETHERNET CABLES TO WITHIN 12" OF THE EQUIPMENT BEING SERVED AND ON INTERVALS NOT TO EXCEED 6'.
 III) FOR UNDERGROUND HFC/PUBLIC BACKHAUL, ROUTE ETHERNET CABLE IN CONDUIT UP THE POLE AND ENTER THE UTILITY POLE RISER. SEAL EXPOSED END OF CONDUIT WITH A CABLE TERMINATION FITTING.
 IV) BY APPROVAL IN SELECT CASES LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) MAY BE USED IN LENGTHS NOT TO EXCEED 36" TO EXTEND THE ELECTRICAL SERVICE CONDUIT TO THE AC DISTRIBUTION BOX. EXAMPLE: UTILITY-REQUIRED DISCONNECT ON POLE W/ AC DISTRIBUTION BOX ON OPPOSITE SIDE OF POLE.

B) (N) METALLIC POLES
 I) PROCURE (N) POLES WITH SUITABLE HAND HOLES SUCH THAT HAND HOLES EXIST AT ALL EQUIPMENT LOCATIONS.
 (1) WITH CLIENT APPROVAL IN SELECT CASES TO FACILITATE IMPROVED APPEARANCE, 1/2" COAXIAL CABLES MAY BE "SUPERFLEX" IN LIEU OF LDF-4.
 II) WHERE POSSIBLE, INSTALL POLE BASE SUCH THAT THE ELECTRICAL FEED AND BACKHAUL (IF UNDERGROUND) CIRCUIT ENTER THE POLE THROUGH THE POLE BASE. IF A DISCONNECTING MEANS SEPARATE FROM THE AC DISTRIBUTION BOX IS REQUIRED BY JURISDICTION OR UTILITY, WITH APPROVAL IN SELECT CASES LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) MAY BE USED IN LENGTHS NOT TO EXCEED 36" TO EXTEND THE ELECTRICAL SERVICE CONDUIT TO THE AC DISTRIBUTION BOX.

PLUMBING DIAGRAM
 SCALE: 3/16" = 1'-0" (3/8" = 1'-0" ON 22"x34" SHEET)

BILL OF MATERIALS							
QTY.	DESCRIPTION	MANUFACTURER	MODEL NUMBER	AZIMUTH	CABLE	DIMENSIONS (HxWxD)	WEIGHT
1	ANTENNA	CCI	SCA-OM-360FX-Q-H2	TBD	-	20.9" X 4" DIAMETER	3.2 LBS
1	UE RELAY	AIRSPAN	IR460-SPB-ST-1-P-0	TBD	-	13" X 7" DIAMETER	8.8 LBS
-	-	-	-	-	-	-	-
1	GPS UNIT	NOKIA	FAWD/472932A	-	-	3.1" X 2.1" DIAMETER	TBD
1	RADIO	NOKIA	473603A	-	-	9.7" X 12.9" X 6.3"	24.7 LBS
-	-	-	-	-	-	-	-
1	ANTENNA SHROUD	CONCEALFAB	009819-000	-	1±	65" X 14" DIAMETER	TBD
1	CONCRETE LIGHT POLE	AMERON	BP300X09	-	-	29'-3" X 11.8" DIAMETER	TBD

BILL OF MATERIALS
 SCALE: NOT TO SCALE

NOT USED
 SCALE: NOT TO SCALE

1572 N. BATAVIA ST., STE. 1D
ORANGE, CA 92667

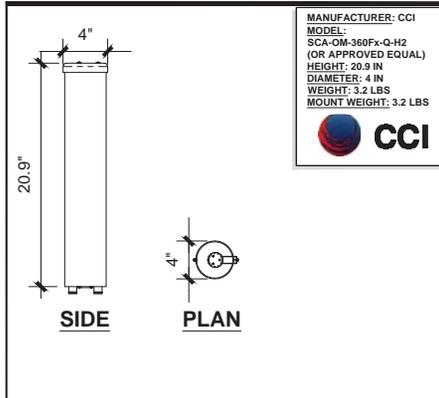
PROJECT NO:	LA90XSGQ4A
DRAWN BY:	MG
CHECKED BY:	JF

2	12/19/17	CLIENT COMMENTS
1	11/27/17	UC INCORPORATED
0	06/09/17	90% CONSTRUCTION DRAWINGS

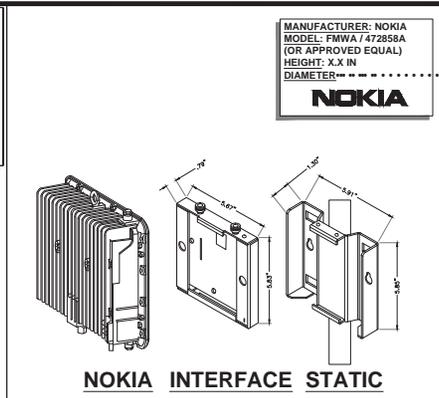
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LA90XSGQ4A MARINA DEL REY, CA 90292 NEW CONCRETE LIGHT POLE
SHEET TITLE PLUMBING & RISER DIAGRAM
SHEET NUMBER PL-1

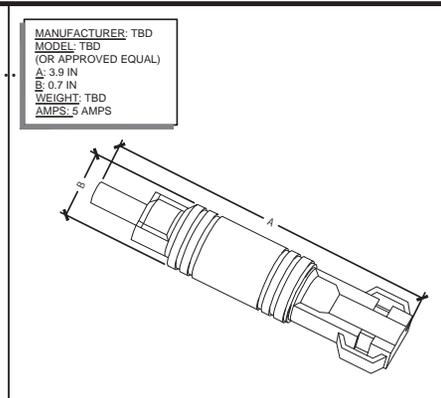
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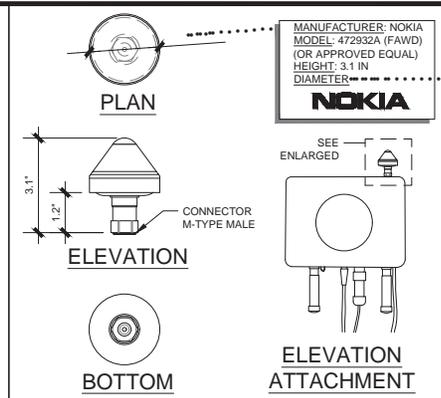
CCI SCA-OM-360Fx-Q-H2 SCALE N.T.S. 1



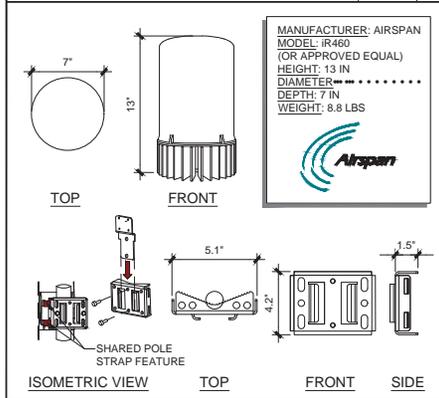
NOKIA RADIO MOUNT SCALE N.T.S. 4



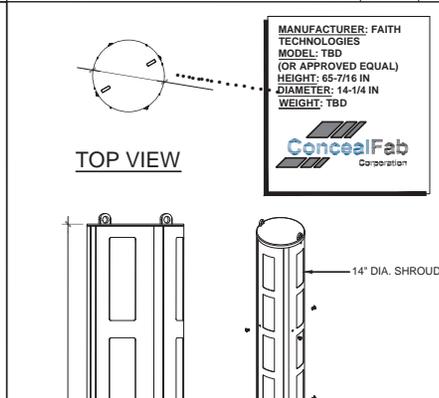
IN-LINE FUSE SCALE N.T.S. 6



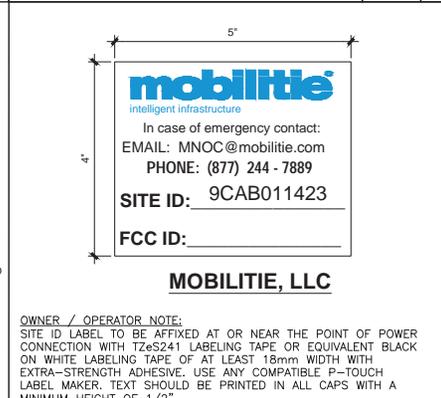
GPS UNIT SCALE N.T.S. 8



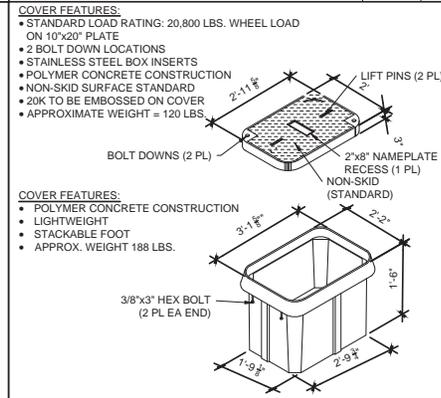
UE RELAY SCALE N.T.S. 1



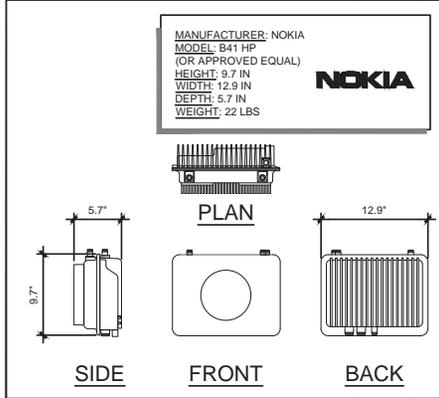
SHROUD DETAIL SCALE N.T.S. 5



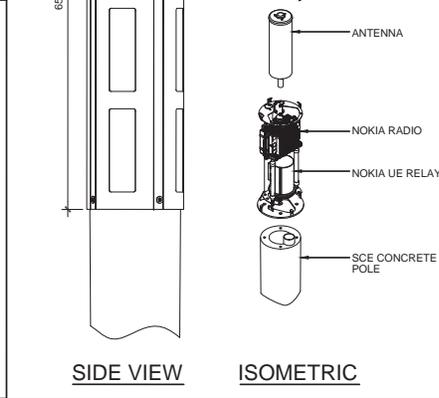
POLE MOUNTED SIGNS SCALE N.T.S. 1



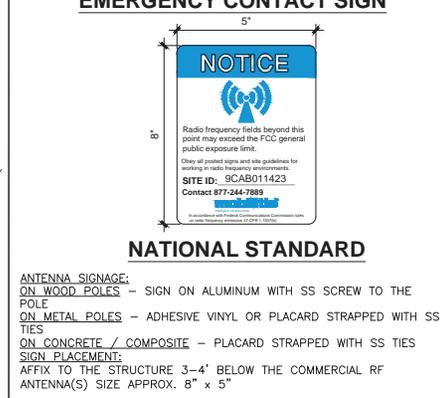
UTILITY VAULT DETAIL SCALE N.T.S. 9



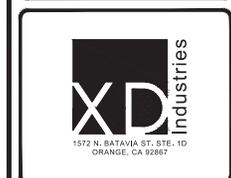
REMOTE RADIO HEAD SCALE N.T.S. 1



EMERGENCY CONTACT SIGN SCALE N.T.S. 1



WTR FUSE BOX SCALE N.T.S. 10



PROJECT NO:	LA90XSGQ4A
DRAWN BY:	MG
CHECKED BY:	JF

2	12/10/17	CLIENT COMMENTS
1	11/27/17	UC INCORPORATED
0	06/09/17	BOX CONSTRUCTION DRAWINGS

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NOT FOR CONSTRUCTION

LA90XSGQ4A
MARINA DEL REY, CA 90292
NEW CONCRETE LIGHT POLE

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
EQ-1

PROJECT NO: LA90XSGQ4A
DRAWN BY: MG
CHECKED BY: JF

2	12/07/17	CLIENT COMMENTS
1	11/27/17	IC INCORPORATED
0	06/09/17	90% CONSTRUCTION DRAWINGS

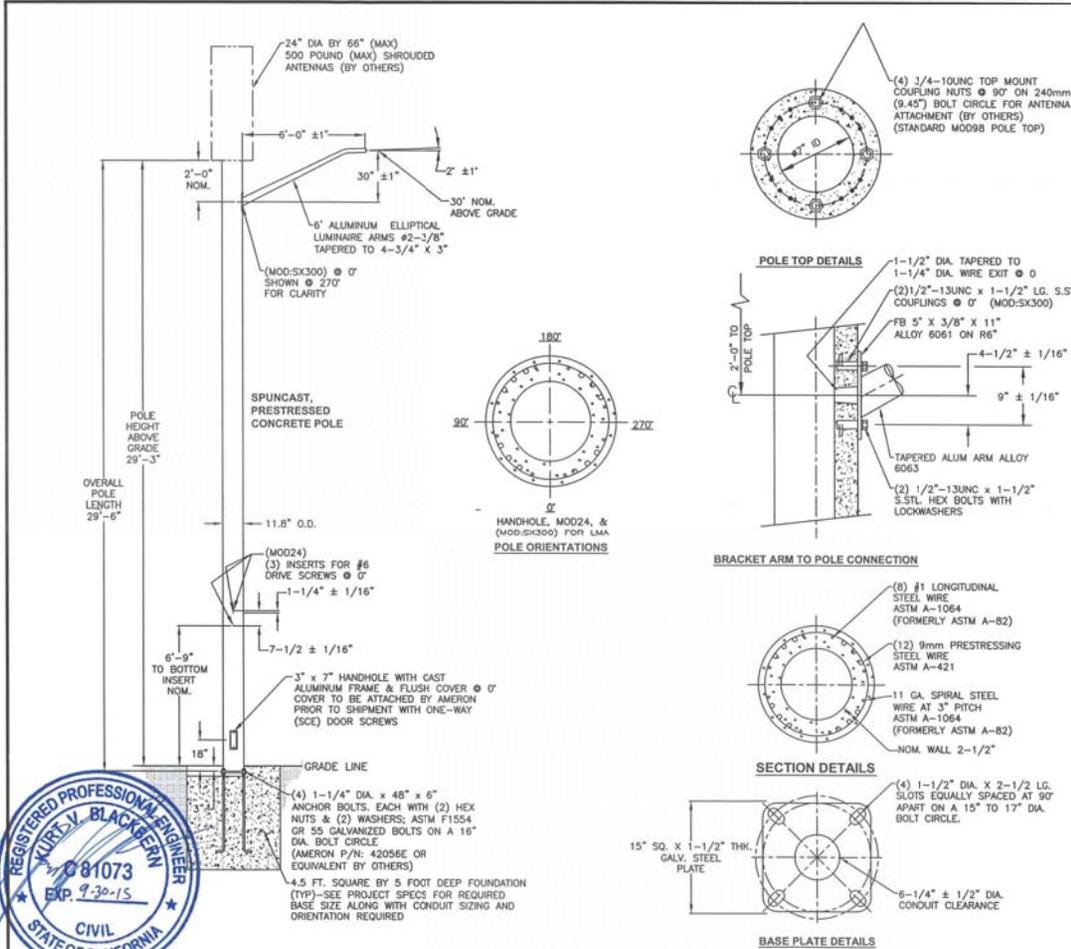
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LA90XSGQ4A
MARINA DEL REY, CA 90292
NEW CONCRETE LIGHT POLE

SHEET TITLE
POLE SPECIFICATION

SHEET NUMBER
EQ-2



REV.	DATE	DESCRIPTION	DRN.	APPR.
A	09/07	REDRAWN, ADDED POLE P/N	A.C.	
B	05/08	UPDATED FOR ORACLE	T.L.	
C	02/10	A/B WERE A36M55, NOW A307	J.C.	
D	06/15	UPDATED TO NEW DWG. STDS.	L.P.	

"F" LEVEL CONFIG CODES			"P" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO.	OPTION CLASS	ENTRY	INFO.
COATING	S		MIX	81	
HH COVER	66546E		FINISH	5	
DOOR SCRS	SCE		BASEPLATE	63250E	
DRILL IN MOD	MOD24		COLLAR	NONE	
			POLE TOP CON.	MOD98	
			CAST-IN MOD	MODSX300	

300MM NON-TAPERED BASE PLATE ROUND POLE

POLE DESIG-NATION	POLE HEIGHT ABOVE GRADE	OVERALL POLE LENGTH	BOLT CIRCLE	BASE O.D.	ULTIMATE G.L. MOMENT (ft.-lbs.)	POLE WEIGHT (lbs.)
BP300X09	29'-3"	29'-6"	16"	11-13/16"	65,000	2900

() POLES REQUIRED (P/N: BP300X09-16137), EACH WITH 6' WALL BRACKET ELLIPTICAL ARM (P/N: LAEB6A)

- NOTES:
- MIX (8155): SCE BLACK & WHITE, LIGHTLY EXPOSED AGGREGATE FINISH WITH FLAT WATER SEALER COATING.
 - ASTM C-150 TYPE III GRAY CEMENT.
 - Fc @ 28 DAYS=7,000 PSI, USING SPUN CYLINDER TEST.
 - Fc @ 28 DAYS=5,000 PSI, USING ASTM C-31 CYLINDER TEST.
 - POLES MANUFACTURED TO ASTM C-1689-13 SPECIFICATIONS.
 - PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
 - THE POLE DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE SIDE MOUNTED TAPERED ELLIPTICAL ALUMINUM ARM (NOT TO EXCEED 6' OFFSET, 3.7 SQ. FT. EPA, 25 LBS.) WITH THE ARM HOLDING A DOWNWARD FACING AREA OR PENDENT LUMINAIRE (NOT TO EXCEED 2.0 SQ. FT. EPA, 50 POUNDS); THE POLE ALSO SUPPORTS (1) ANTENNA SHROUD CENTERED 3' ABOVE THE POLE TOP (NOT TO EXCEED 6.3 SQ. FT. EPA, 225 LBS. MAX) AS DESIGNED PER THE 2013 ASHTO LTS-6 (CRITERIA FOR STREET LIGHTING POLES), 2010 CALIFORNIA BUILDING CODE & ASCE7-05 FOR 90 MPH WIND AND SEISMIC ZONE (3-SECOND GUSTS) & SEISMIC CRITERIA Ss=1.75 & S1=0.6. PLEASE CONTACT & ADVISE AMERON ENGINEERING IF THE INTENDED VALUES EXCEED THESE VALUES.
 - DUE TO THE NATURE & CHARACTERISTICS OF CONCRETE, SIDE MOUNT SPACING DIMENSIONS CAN ONLY BE TAKEN TO THE NEAREST 1/8 INCH.

APPROVED BY: _____ DATE: _____

SOUTHERN CALIFORNIA EDISON
BP300X09 POLE WITH SINGLE 6' ARM

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

AMERON POLE PRODUCTS
DRAWN: SJB DATE: 10/2003
SCALE: N.T.S. DWG. NO. 040-01277 REV D

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

PROJECT NO: LA90XSGQ4A
DRAWN BY: MG
CHECKED BY: JF

2	12/19/17	CLIENT COMMENTS
1	11/27/17	UC INCORPORATED
0	06/09/17	90% CONSTRUCTION DRAWINGS

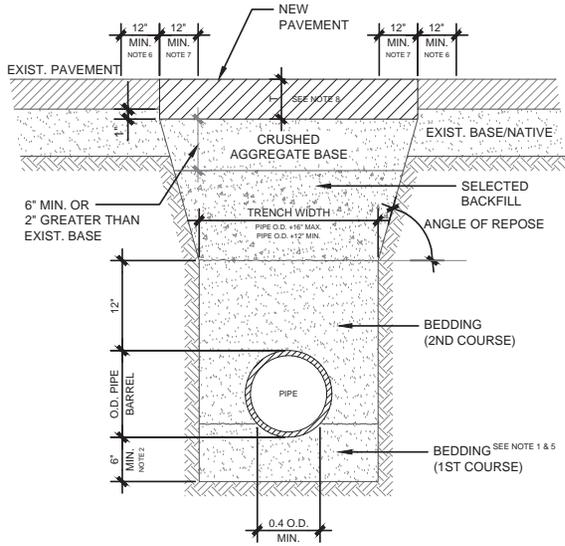
IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

NOT FOR CONSTRUCTION

LA90XSGQ4A
MARINA DEL REY, CA 90292
NEW CONCRETE LIGHT POLE

SHEET TITLE
EXCAVATION DETAILS

SHEET NUMBER
EX-1



NOTES:

- BEDDING MATERIAL SHALL FIRST BE PLACED SO THAT THE PIPE IS SUPPORTED FOR FULL LENGTH OF THE BARREL WITH FULL BEARING (0.4 O.D. MIN.).
- IN CASES WHERE NATIVE FREE-DRAINING GRANULAR MATERIAL IS SUITABLE FOR USE AS BEDDING, THE TRENCH MAY BE EXCAVATED TO A POINT ABOVE THE INVERT GRADE AND THE TRENCH BOTTOM HAND-SHAPED SO THAT THE BOTTOM SEGMENT OF THE PIPE IS FIRMLY SUPPORTED ON UNDISTURBED MATERIAL.
- IF THE MAXIMUM TRENCH WIDTH IS EXCEEDED, ADDITIONAL BEDDING, ANOTHER TYPE BEDDING OR A HIGHER STRENGTH OF PIPE SHALL BE PROVIDED AS DETERMINED BY THE ENGINEER.
- BEDDING AND BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION, WITH THE EXCEPTION OF THE UPPER SIX (6) INCHES OF SUBGRADE WHICH SHALL BE COMPACTED TO A MINIMUM OF 95 RELATIVE COMPACTION. COMPACTION METHODS SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- BEDDING MATERIAL SHALL BE SAND.
- PRIOR TO INSTALLING FINISH SURFACE COURSE, ASPHALT BASE COURSE PLUS ADDITIONAL MINIMUM 12" WIDTH OF EXISTING PAVEMENT ON BOTH SIDES OF MAIN AND LATERAL EXCAVATIONS SHALL BE COLD PLANED SO AS TO RESULT IN A MINIMUM FINISH SURFACE THICKNESS OF 1.5" AND RECEIVE AN APPLICATION OF TACK COAT.
- SAW CUT AND REMOVE 12" TO CREATE A STRAIGHT EDGE PRIOR TO INSTALLING A.C. BASE COURSE.
- T = PAVEMENT THICKNESS = EXIST. +1" WITH A 4" MIN. FOR A.C. OR 6" MIN. FOR P.C.C. BASE COURSE = C2-AR-4000 MIN 1.5" THICK FINISH COURSE = D2-AR-4000

TRENCH SECTION DETAIL

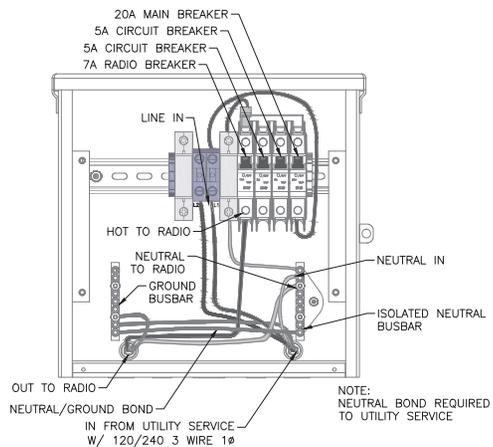
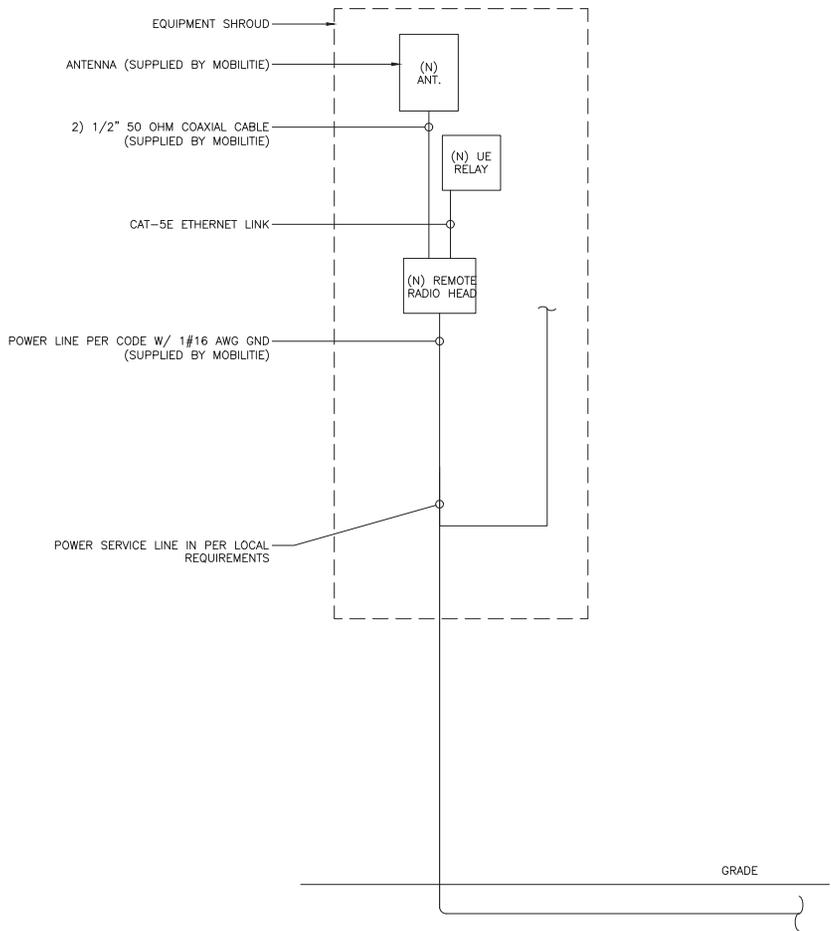
SCALE: NOT TO SCALE

1

NOT USED

SCALE: NOT TO SCALE

2



- NOTES:**
1. NOMINAL POWER IS CALCULATED AS 80% OF OEM DOCUMENTED MAXIMUM POWER.
 2. CALCULATIONS FOR UE W/ NOKIA DO NOT NEED TO INCLUDE THE POWER FOR THE UE ANTENNA AS IT IS INCLUDED IN THE MAX POWER FIGURE. CALCULATIONS FOR UE W/ AIRSPAN MUST INCLUDE UE AS IT IS NOT INCLUDED
 3. KVA IS CALCULATED FROM THE CONSUMPTION VALUE ASSUMING A PF=1. MAXIMUM POWER WAS USED FOR KVA. WHERE MAXIMUM WAS NOTED BY THE OEM THE QUOTED FIGURE WAS USED. WHERE AVERAGE/NOMINAL POWER WAS NOTED BY THE OEM MAXIMUM POWER WAS CALCULATED BY INCREASING AVERAGE/NOMINAL POWER BY A FACTOR OF 50%

Nokia Scenario 5 B41 High Power Radio and Aispan UE Backhaul

Unit	Sub Description	Max Power (W)	Max Current (A)	KVA	kWh/Yr
NSN - B41 High	LTE Base Station	360	4.00	0.36	3153.6
Airspan IR460	UE Relay	N/A	N/A	N/A	N/A
Total		360	4.00	0.36	3153.6

LOAD CALCULATIONS

SCALE: NOT TO SCALE

3



PROJECT NO:	LA90XSGQ4A
DRAWN BY:	MG
CHECKED BY:	JF
2 12/19/17	CLIENT COMMENTS
1 11/27/17	UC INCORPORATED
0 06/09/17	90% CONSTRUCTION DRAWINGS

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LA90XSGQ4A
MARINA DEL REY, CA 90292
NEW CONCRETE LIGHT POLE

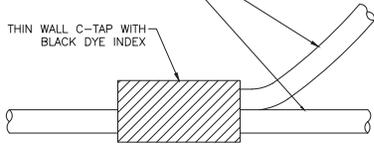
SHEET TITLE
ELECTRICAL

SHEET NUMBER
E-1

NOTE:
CONTRACTOR TO SURROUND COMPLETED CONNECTION WITH HEAT-SHRINK TUBING TO ENSURE WEATHER PROOF CONNECTION

#6 THHN/THWN STRANDED BLACK JACKET OR SOLID TIN COPPER FROM EQUIPMENT TO MAIN GROUND CONDUCTOR, TYP

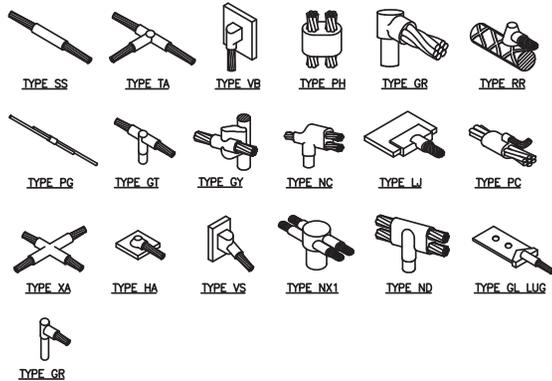
THIN WALL C-TAP WITH BLACK DYE INDEX



C-TAP DETAIL

SCALE: NOT TO SCALE

1

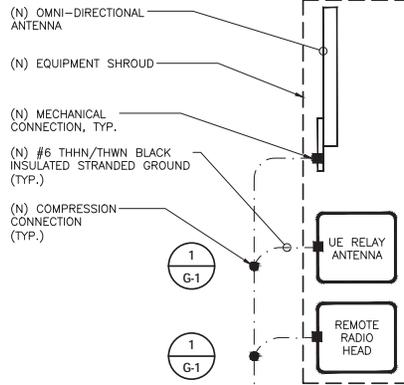


- GROUNDING BONDS:** ALL BONDS ARE TO BE MADE WITH #2 AWG STRANDED COPPER IN BLACK INSULATION. (ATT-TP-76416 7, 6.7)
- EXTERIOR UNIT BONDS:** ALL METALLIC OBJECTS SHALL BE BONDED TO THE GROUND ROD. (ATT-TP-76416 7, 12.6)
- GROUND ROD:** UL LISTED COPPER CLAD STEEL GROUND ROD WITH MINIMUM DIAMETER OF 5/8" AND MINIMUM LENGTH OF 8 FEET. ALL GROUND RODS MAY BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 30" BELOW GRADE OR 6 INCHES BELOW FROST LINE. (ATT-TP-76416 1.4 / 2.2, 3, 10)

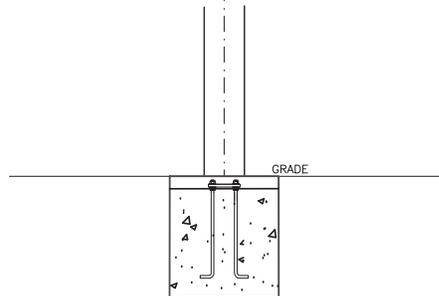
WELD CONNECTION DETAILS

SCALE: NOT TO SCALE

2



#6 SOLID TIN COATED MAIN GROUND CONDUCTOR ROUTED INSIDE (N) CONCRETE POLE



●	COMPRESSION CONNECTION	---	GROUND WIRE
■	MECHANICAL CONNECTION	---	GROUND
TT	COPPER GROUND BAR (GB)	⊥	GROUND
⊙	5/8" x 8' COPPER CLAD STEEL GROUND ROD		

GROUNDING SYMBOLS

- NOTES:**
- GROUNDING RISER FOR DIAGRAMMATIC PURPOSES ONLY. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.
 - ALL RGS TO BE GROUNDING AT BOTH ENDS USING GROUNDING BUSHINGS
 - GROUND WIRE BELOW 11' AGL TO BE RUN IN 1/2" SCHEDULE 40 PVC

GROUNDING RISER DIAGRAM

SCALE: NOT TO SCALE

3



PROJECT NO: LA90XSGQ4A
DRAWN BY: MG
CHECKED BY: JF

2	12/19/17	CLIENT COMMENTS
1	11/27/17	UC INCORPORATED
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NOT FOR CONSTRUCTION

LA90XSGQ4A
MARINA DEL REY, CA 90292
NEW CONCRETE LIGHT POLE

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1

PEDESTRIAN NOTES:
 A DEDICATED INDIVIDUAL WILL BE ASSIGNED THE RESPONSIBILITY OF ESCORTING PEDESTRIANS THROUGH THE WORK AREA IN ACCORDANCE WITH THREE MAJOR CONSIDERATIONS.

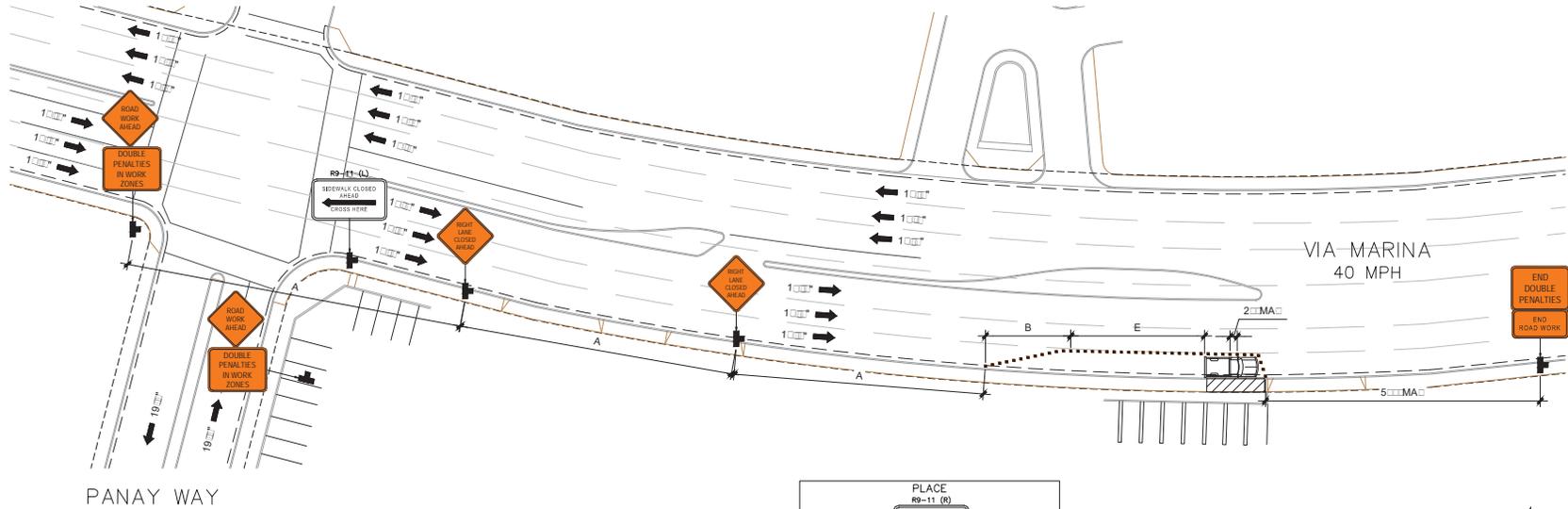
1. PEDESTRIANS SHOULD NOT BE LED INTO DIRECT CONFLICT WITH WORK SITE VEHICLES, EQUIPMENT OR OPERATIONS.
2. PEDESTRIANS SHOULD NOT BE LED INTO DIRECT CONFLICT WITH MAINLINE TRAFFIC MOVING THROUGH OR AROUND THE WORK SITE.
3. PEDESTRIANS SHOULD BE PROVIDED WITH A REASONABLE SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS NEARLY AS PRACTICAL THE MOST DESIRABLE CHARACTERISTICS OF THE EXISTING SIDEWALK OR FOOTPATH

DIMENSIONS	FEET
A (DISTANCE BETWEEN SIGNS)	250
B (MINIMUM MERGING TAPER L)	320
C (MINIMUM SHIFTING TAPER 1/2 L)	160
E (BUFFER SPACE)	315

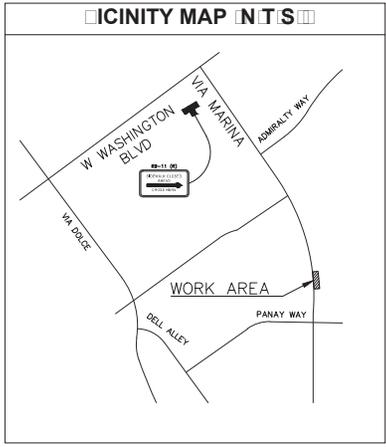
EXCAVATION DATA IN CITY RIGHT OF WAY	
EXCAVATION IN CONCRETE SIDEWALK	504 SQ FT
EXCAVATION IN DIRT LANDSCAPE	0 SQ FT
EXCAVATION IN ASPHALT STREET	0 SQ FT
TOTAL EXCAVATION	504 SQ FT

WORK HOURS: 9:00 A.M. TO 3:00 P.M. MON - FRI
 CROSS STREET: VIA MARINA & PANAY WAY
 WORK TYPE: UTILITIES
 NEAREST ADDRESS: 4142 VIA MARINA MARINA DEL REY, CA

LINE TYPE LEGEND	
---	CENTER LINE
---	LANES
---	GUTTER
---	CURB/SIDEWALK



END DOUBLE PENALTIES
 END ROAD WORK



TRAFFIC CONTROL PLAN GENERAL NOTES

1. ALL MATERIALS DOES COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. ALL SIGNING AND MARKINGS DOES CONFORM TO THE STATE OF CALIFORNIA, STANDARD PLANS AND SPECIFICATIONS, INCLUDING STANDARD PLAN A-2.1 DETAILS.
3. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES, AND DRIVEWAYS AT ALL TIMES.
4. FLASHING YELLOW BEACONS, TYPE B, SHALL BE USED ON ALL TYPE 3 SIGNS AND ON ALL TYPE 3 BARRICADES GUARDING THE WORK AREA OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TYPE 3 DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO RESERVE THEIR APPROPRIATE APPEARANCE AND CONTINUIT, AND SHALL INCLUDE A 12" INTENSIFIED REFLECTORIZED SLEEVE, IF USED DURING NIGHTTIME WORKS.
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROMPTLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ADJACENT PROPERTIES.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS, OR BARRICADES MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED ON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND OR CONES TO SIDE: ALL DURING NON-OPERATIONS. REMOVE BARRICADES ETC. FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-OPERATIONS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY SET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW ITEM OR MARKING. ALL CONFLICTING RAISED PAVEMENT MARKINGS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKINGS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND OR STATE INSPECTOR.
15. HALF ROAD CLOSURE: REQUIRES APPROVAL FROM DEPARTMENT OF PUBLIC WORKS. UPON COMPLETION OF EXCAVATION, CONTRACTOR SHALL RESTORE AND CAVESSAR MARKINGS AND STRIPING THAT IS REMOVED DURING CONSTRUCTION.
16. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO TRAFFIC SIGNAL EQUIPMENT SUCH AS LOOP DETECTORS, CONDITION, ETC.
17. CONTRACTOR SHALL CONTACT TRANSIT AUTHORITY 72 HOURS PRIOR TO START OF CONSTRUCTION TO TEMPORARILY RELOCATE BUS STOPS.
18. ALL EXCAVATIONS SHALL BE BACKFILLED OR TRENCELATED AT THE END OF EACH WORK DAY. AS BACKFILLING SHALL BE LAGGED AND NO EXCAVATION TRENCELATED TO PREVENT THE LATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCELATED LATES DURING NON-OPERATIONS TO ENSURE THAT THEY DO NOT BECOME DISLODGED.
19. TEARDOWN AND SET UP TEMPORARY TRAFFIC CONTROL DEVICES DAILY.
20. CONTRACTOR SHALL CONTACT LADOT AT 213-852-2885 FIVE BUSINESS DAYS PRIOR TO CONSTRUCTION TO POST TEMPORARY NO STOPPING AN TIME SIGNS AND COVER LAGGING METERS.

LEGEND	
	= TRAFFIC CONE
	= WORK AREA
	= TYPE 3 BARRICADES
	= PORTABLE SIGN
	= ARROW BOARD
	= WORK VEHICLE

IF YOU DIG IN ANY STATE DIAL 811 FOR THE LOCAL "ONE CALL CENTER" - IT'S THE LAW

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



PROJECT NO:	LA90XSGQ4A
DRAWN BY:	MG
CHECKED BY:	JF
2 12/19/17	CLIENT COMMENTS
1 11/27/17	UC INCORPORATED
0 06/09/17	90% CONSTRUCTION DRAWINGS

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LA90XSGQ4A
 MARINA DEL REY, CA 90292
 NEW CONCRETE LIGHT POLE

SHEET TITLE
VEHICULAR TRAFFIC CONTROL PLAN

SHEET NUMBER
TC-01

MOBILITIE, LLC

PHOTO SIMULATION

FOR NEW SMALL CELL SITE LOCATED AT:

VIA MARINA & PANAY WAY | MARINA DEL REY, CA 90292
SITE ID: LA90XSGQ4A



VICINITY MAP

© 2016 Google



PREVIEW

SITE DESCRIPTION:
NEW SMALL CELL SITE
WITHIN EXISTING RIGHT
OF WAY

VIEWS: 3
SHEET INDEX
SHEET 2: VIEW 1
SHEET 3: VIEW 2
SHEET 4: VIEW 3

DATE: 12.20.17

SHEET: 1 / 4

Photo Simulation By:



424-262-4167 | tangent.systems

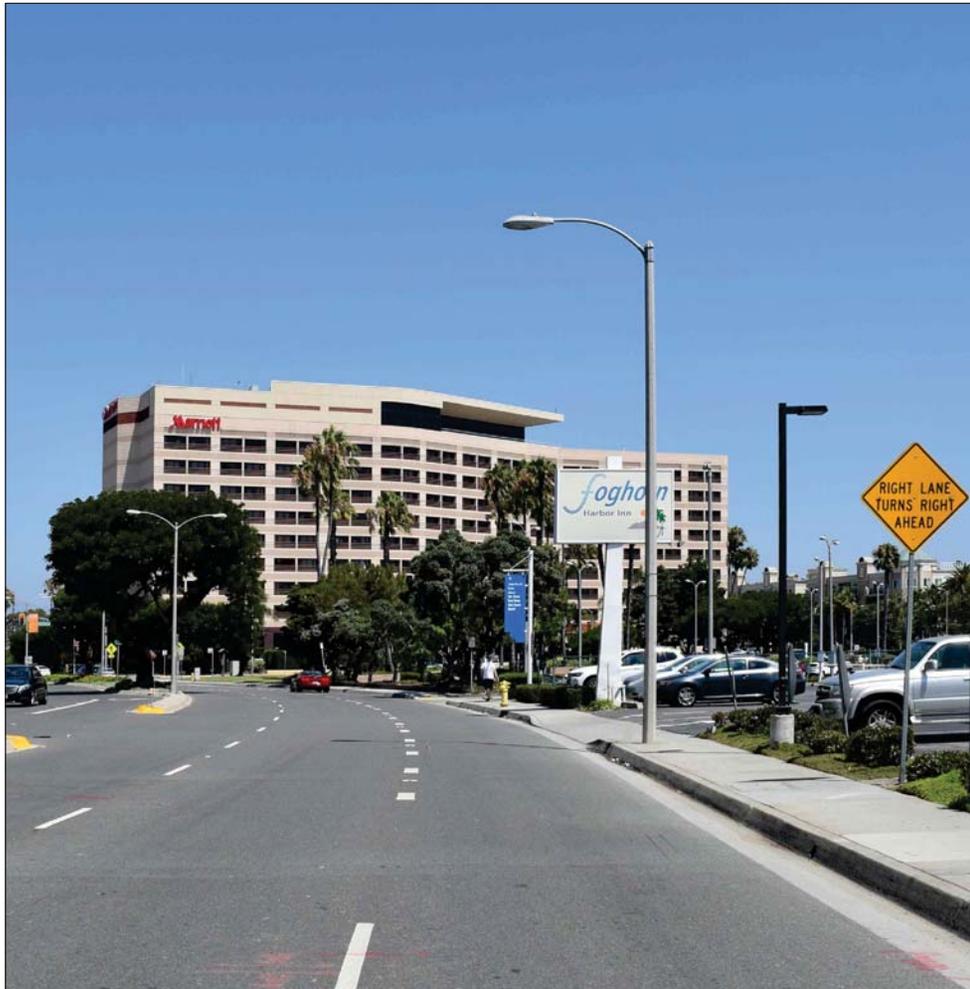
Photo Simulation

This photographic simulation is intended as a visual representation only and is not to be used for construction purposes. Accuracy of photo simulation is based on information provided by project applicant.

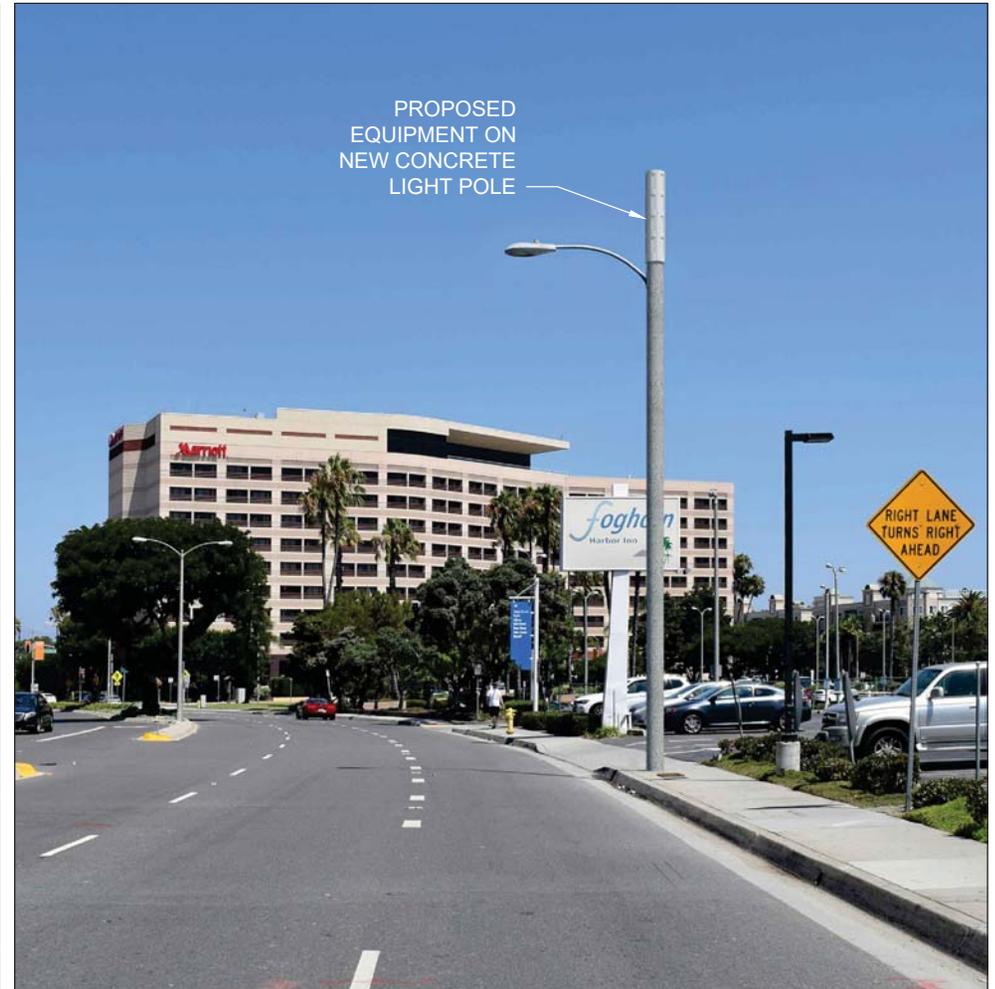
MOBILITIE, LLC

Site ID: LA90XSGQ4A

POLE TYPE: NEW CONCRETE LIGHT POLE
9302 VIA MARINA
MARINA DEL REY, CA 90292



EXISTING VIEW



PROPOSED VIEW

VIEW 1 - LOOKING NORTH FROM VIA MARINA

DATE: 12.20.17

Photo Simulation By:

Tangent
SYSTEMS
424-262-4167 | tangent.systems

Photo Simulation

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MOBILITIE, LLC

Site ID: LA90XSGQ4A

POLE TYPE: NEW CONCRETE LIGHT POLE

9302 VIA MARINA
MARINA DEL REY, CA 90292



EXISTING VIEW

DATE: 12.20.17



PROPOSED VIEW

VIEW 2 - LOOKING NORTHWEST FROM VIA MARINA PARKING

SHEET: 3 / 4

Photo Simulation By:

Tangent
SYSTEMS
424-262-4167 | tangent.systems

Photo Simulation

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MOBILITIE, LLC

Site ID: LA90XSGQ4A

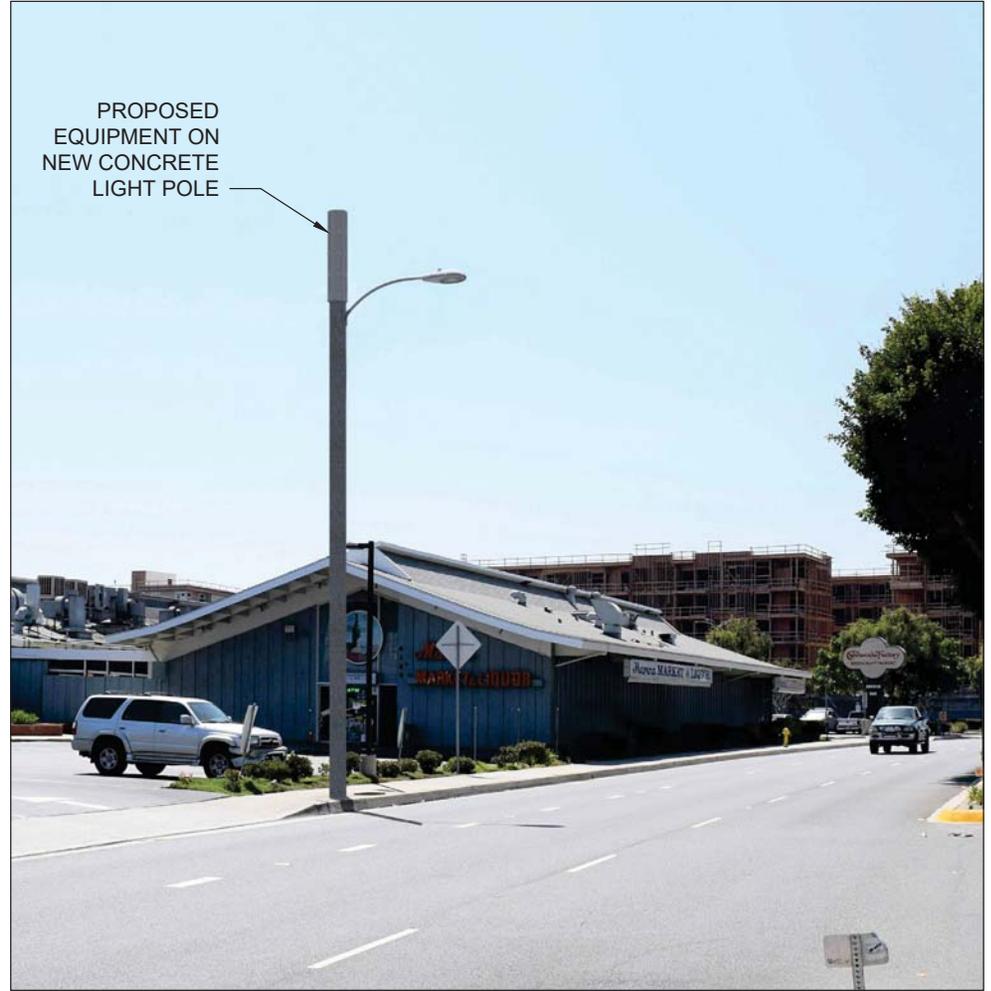
POLE TYPE: NEW CONCRETE LIGHT POLE

9302 VIA MARINA
MARINA DEL REY, CA 90292



EXISTING VIEW

DATE: 12.20.17



PROPOSED VIEW

VIEW 3 - LOOKING SOUTHEAST FROM VIA MARINA

SHEET: 4 / 4

Photo Simulation By:

Tangent
SYSTEMS
424-262-4167 | tangent.systems

Photo Simulation

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MOBILITIE, LLC

Site ID: LA90XSGQ4A

POLE TYPE: NEW CONCRETE LIGHT POLE

9302 VIA MARINA
MARINA DEL REY, CA 90292

APPROVED

By Berto Barajas at 10:42 am, Feb 12, 2018

Streetlight design drawings conceptually approved
All ground base equipment to be approved by local jurisdiction.

Approved power route from IMS and district planner is also required for final CD approval.

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED



IF YOU DIG IN ANY STATE
DIAL 811 FOR THE LOCAL
"ONE CALL CENTER" -
IT'S THE LAW

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mobilitie®

intelligent infrastructure

SITE ID-CANDIDATE LETTER/CASCADE ID-CANDIDATE LETTER:

9CAB011422B/LA90XSGQ3B

STREETLIGHT ID/STRUCTURE NUMBER:

4284165E

COORDINATES OF POLE LOCATION:

33.98213300/-118.45893000

CROSS STREET:

ADMIRALTY WAY & VIA MARINA

CITY, STATE ZIP:

MARINA DEL REY, CA 90292

PROPOSED UNIQUE METER BOX ADDRESS:
4010 1/2 ADMIRALTY WAY
MARINA DEL REY, CA 90292

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intelligent infrastructure

XD
Industries
1572 N. BATAVIA ST. STE. 1D
ORANGE, CA 92667

PROJECT NO: LA90XSGQ3B

DRAWN BY: DR

CHECKED BY: JF

3	12/19/17	CLIENT COMMENTS
2	11/29/17	UC INCORPORATED
1	07/24/17	CLIENT COMMENTS
0	06/14/17	CONSTRUCTION DRAWINGS

GENERAL NOTES

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 OF EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS (N).

SITE INFORMATION

SITE ID:	9CAB011422B
CASCADE ID:	LA90XSGQ3B
LATITUDE:	33.98213300
LONGITUDE:	-118.45893000
CROSS STREET:	ADMIRALTY WAY & VIA MARINA
CITY, STATE, ZIP:	MARINA DEL REY, CA 90292
COUNTY:	LOS ANGELES COUNTY
JURISDICTION:	CITY OF LOS ANGELES
PROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
APPLICANT:	MOBILITIE, LLC 2955 RED HILL AVENUE, STE. 200, COSTA MESA, CA 92626 CONTACT: MARY LUU PHONE: 310-606-9267 EMAIL: mluu@mobilitie.com

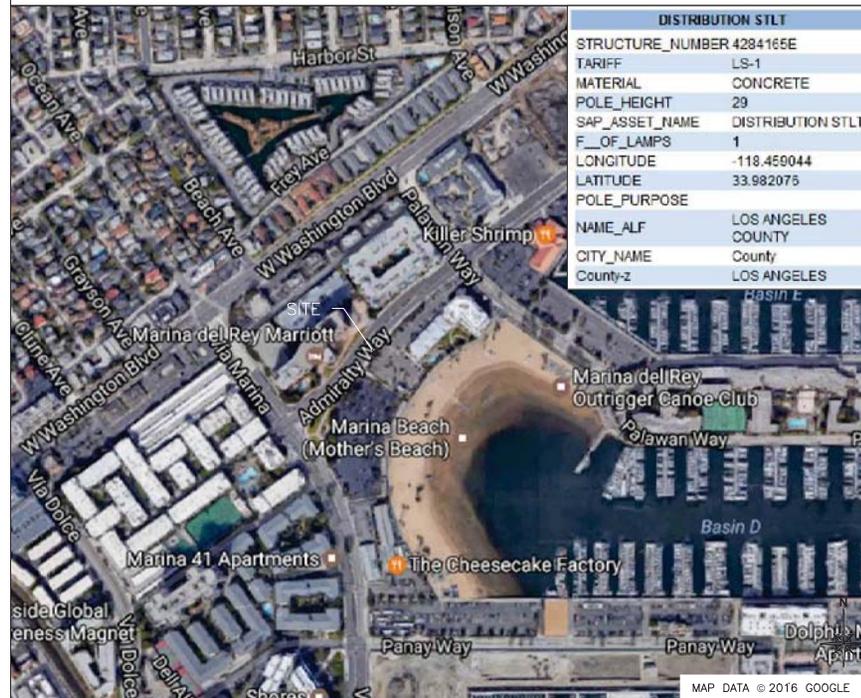
ENGINEER

XD INDUSTRIES 1572 N. BATAVIA ST. SUITE 1D ORANGE, CA 92676	JOSE FRIAS (714) 947-3093 PROJECT NUMBER: 9CAB011422B
---	---

DO NOT SCALE DRAWINGS

CONTRACTORS SHALL VERIFY ALL PLANS, (E) DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

REGIONAL MAP



DISTRIBUTION STLT

STRUCTURE_NUMBER	4284165E
TARIFF	LS-1
MATERIAL	CONCRETE
POLE_HEIGHT	29
SAP_ASSET_NAME	DISTRIBUTION STLT
F_OF_LAMPS	1
LONGITUDE	-118.459044
LATITUDE	33.982075
POLE_PURPOSE	
NAME_ALF	LOS ANGELES COUNTY
CITY_NAME	County
County-z	LOS ANGELES

PROJECT DESCRIPTION

END USER PROPOSES TO INSTALL EQUIPMENT ON A REPLACEMENT CONCRETE POLE WITHIN AN EXISTING RIGHT-OF-WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:
- INSTALL PROPOSED BACKHAUL TRANSPORT EQUIPMENT ON REPLACEMENT STREETLIGHT.
- SCE CONTRACTOR SHALL INSTALL NEW CONCRETE STREETLIGHT AND HANDHOLE.

CODES

2015 INTERNATIONAL BUILDING CODE GENERAL ORDER 95
2014 NATIONAL ELECTRICAL CODE
TIA/EIA-222-G-2 OR LATEST EDITION
LOCAL BUILDING/PLANNING CODE

DRAWING INDEX

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

NOT FOR CONSTRUCTION

LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST ADOPTED EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
2. CONTRACTOR SHALL CONSTRUCT SITE IN ACCORDANCE WITH THESE DRAWINGS AND LATEST MOBILITIE CONSTRUCTION STANDARDS. THE SPECIFICATION IS THE RULING DOCUMENT AND ANY DISCREPANCIES BETWEEN THE SPECIFICATION AND THE CONSTRUCTION DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OR MOBILITIE CM PRIOR TO THE COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE (N) WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED, AS SHOWN, PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OR MOBILITIE CM PRIOR TO THE COMMENCEMENT OF WORK. NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OF FIELD CONDITIONS.
4. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL ANY/ALL ITEMS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM SUBJECT ONLY TO OWNER-SUPPLIED ITEMS. CONTRACTOR SHALL PROVIDE ANY/ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
5. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. OWNER PROVIDED AND CONTRACTOR INSTALLED MATERIALS WILL INCLUDE THE FOLLOWING, UNLESS NOTED OTHERWISE:
 - A) TRANSMITTER
 - B) UHF ANTENNA AND MOUNTING BRACKETS, GPS ANTENNAS AND KU ANTENNAS
 - C) UHF COAX AND HANGERS
 - D) INTEGRATED LOAD CENTER
6. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, (E) CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ANY DISCREPANCIES TO THE ATTENTION OF THE MOBILITIE CM, IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.
7. DETAILS PROVIDED ARE FOR THE PURPOSE OF SHOWING DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR SITE CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
8. CONTRACTOR SHALL PAY FOR APPLICABLE PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO ORDERING MATERIALS AND THE COMMENCEMENT OF WORK.
9. THE TERM ~~PROVIDE~~-USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
10. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
11. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING ACCEPTED INDUSTRY-STANDARD SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
13. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE MOBILITIE CM AND SCHEDULE THEIR ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
15. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
16. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT (E) SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING ETC. AND IMMEDIATE REPAIR, TO NEW CONDITION, ANY DAMAGE THAT OCCURS DURING CONSTRUCTION AT THE SOLE COST OF THE CONTRACTOR.
17. IN DRILLING HOLES, OR CORING, INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., MUST BE CLEARLY UNDERSTOOD THAT REINFORCING

STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE LOCATED BY THE CONTRACTOR USING APPROPRIATE METHODS AND EQUIPMENT PRIOR TO ANY DRILLING OR CORING OPERATIONS IN (E) CONCRETE.

1. CONTRACTOR SHALL REPAIR, TO NEW CONDITION, ALL (E) WALL SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACES.
2. CONTRACTOR SHALL SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES OR MATERIALS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS AND SYSTEMS THAT MEET OR EXCEED THE RATING OF THE ASSEMBLY IN WHICH THE NEW PENETRATION IS PLACED.
3. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
4. MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
5. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO (E) SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH JURISDICTIONAL OR STATE AND LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATED WITH LOCAL REGULATORY AUTHORITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ANY EROSION CONTROL MEASURES, RECORD-KEEPING, MONITORING, AND REPORTING TO THE OWNER AND REGULATORY AUTHORITIES.
6. ALL CONSTRUCTION WORK IS TO ADHERE TO APPLICANT'S INTEGRATED CONSTRUCTION STANDARDS UNLESS STATE OR LOCAL CODE IS MORE STRINGENT.
7. THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PERFORM THE CONSTRUCTION IN ACCORDANCE PER STATE BUILDING STANDARDS CODE AND STATE CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISHED WORK WILL NOT COMPLY PER STATE CODE OF REGULATIONS, A SCOPE OF WORK DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE JURISDICTION BEFORE PROCEEDING WITH THE WORK. A CHANGE ORDER FOR THAT SCOPE SHALL BE SUBMITTED TO THE MOBILITIE CM PRIOR TO PROCEEDING WITH THE WORK.
8. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
9. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE. ANY CORRECTIVE WORK SHALL BE COMPLETED AT THE SOLE COST OF THE CONTRACTOR.

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY MOBILITIE CM AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE MOBILITIE CM HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL (E) CONDITIONS OF ELECTRICAL EQUIP., ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF THEIR BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC, ALL CODES AND ORDINANCES OF THE LOCAL JURISDICTION, AND POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT ARE NOT BE LIMITED TO:

- A) UL – UNDERWRITERS LABORATORIES
 - B) NEC – NATIONAL ELECTRICAL CODE
 - C) NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 - D) OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
 - E) SBC – STANDARD BUILDING CODE
 - F) NFPA – NATIONAL FIRE PROTECTION AGENCY
 - G) ANSI – AMERICAN NATIONAL STANDARDS INSTITUTE
 - H) IEEE – INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
 - I) ASTM – AMERICAN SOCIETY FOR TESTING MATERIALS
4. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH MOBILITIE CM ANY SIZES AND LOCATIONS WHEN NEEDED.
 5. (E) SERVICES: CONTRACTOR SHALL NOT INTERRUPT (E) SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
 6. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC... ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE MOBILITIE CM, PRIOR TO BEGINNING ANY WORK.
 7. MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION, UNLESS OTHERWISE NOTED.
 8. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
 9. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
 10. ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY APPLICANT.
 11. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY FUNCTIONAL AND SHALL BE APPROVED BY THE MOBILITIE CM AND LOCAL JURISDICTION. ANY DEFICIENCIES SHALL BE CORRECTED BY AN ELECTRICAL CONTRACTOR AT THE SOLE COST OF THE CONTRACTOR.
 12. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.



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DUNAGE, CA 92087

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ELECTRICAL NOTES CONT'D

13. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
14. CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
15. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS 'EXCAVATION, AND BACKFILLING.
16. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEC.
17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURER'S CATALOG INFORMATION OF ANY/ALL EQUIPMENT AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE MOBILITE CM PRIOR TO INSTALLATION.
18. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE MOBILITE CM UPON FINAL ACCEPTANCE.
19. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
20. DISCONNECT SWITCHES SHALL BE UL-RATED, H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
21. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND KNOWN AS "NO-OXIDE A" BY DEARBORN CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
22. RACEWAYS: CONDUIT SHALL BE SCHEDULE 80 PVC MEETING OR EXCEEDING NEMA TC2 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITZ ZINC' OR 'COLD GALV'.
SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
24. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, UNLESS OTHERWISE NOTED, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
25. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
26. SERVICE: AS SPECIFIED ON THE DRAWINGS, OWNER OR OWNER'S AGENT WILL APPLY FOR POWER. ALL PROVISIONS FOR TEMPORARY POWER WILL BE OBTAINED BY THE CONTRACTOR.
27. TELEPHONE OR FIBER SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
28. ELECTRICAL AND TELCO/FIBER RACEWAYS TO BE BURIED A MINIMUM DEPTH OF 30", UNLESS OTHERWISE NOTED.
29. CONTRACTOR SHALL PLACE 6" WIDE DETECTABLE WARNING TAPE AT A DEPTH OF 6" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM".
30. ALL BOLTS SHALL BE 3-16 STAINLESS STEEL

GROUNDING NOTES:

1. ALL HARDWARE SHALL BE 3-16 STAINLESS STEEL, INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND, AS SPECIFIED, BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
3. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.
4. ALL ELECTRICAL AND GROUNDING AT THE POLE SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

5. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.

6. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #6 GROUND WIRES. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS.

7. ALL GROUND CONNECTIONS SHALL BE #6 AWG, UNLESS OTHERWISE NOTED. ALL WIRES SHALL BE COPPER WITH THHN, UNLESS OTHERWISE NOTED. ALL GROUND WIRE SHALL BE SOLID TIN COATED OR STRANDED BLACK INSULATED WIRE.

8. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, 10 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE MOBILITE CM.

9. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.

10. ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE/ 6" BELOW FROST-LINE IN TRENCH, UNLESS OTHERWISE NOTED. BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT/ENGINEER.

11. ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.

12. ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
12.A. RNDY, HTY-GRADE U.L. LISTED CONNECTORS FOR OUTDOOR USE OR AS APPROVED BY APPLICANT PROJECT MANAGER. CADWELD, EXOTHERMIC WELDS WELDED CONNECTIONS).
12.B. ONE (1) HOLE TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS.

13. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES) AND WEATHER-PROOFED WITH HEAT SHRINK.

14. ALL CONNECTION HARDWARE SHALL BE TYPE 3-16 STAINLESS STEEL (NOT ATTRACTED TO MAGNETS). ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH NEC, ARTICLE 250-82 AND SHALL BOND ALL (E) AND NEW GROUNDING ELECTRODES. NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS.

TESTING AND EQUIPMENT TURN UP REQUIREMENTS:

1. RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT TESTING WILL COMPLY WITH CURRENT INDUSTRY STANDARDS AND OR THOSE STANDARDS OF THE EQUIPMENT MANUFACTURER OR PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.

2. CONTRACTOR WILL USE THE APPROPRIATE CALIBRATED TESTING EQUIPMENT IN THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT THAT MEET INDUSTRY STANDARDS OF THE MANUFACTURER OR THOSE STANDARDS PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.

3. CONTRACTOR TO VERIFY AND RECORD ALL TEST RESULTS AND PROVIDE THESE RESULTS WITHIN THE FINAL CLOSE OUT PACKAGE.

4. ALL PERSONNEL INVOLVED IN THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT WILL BE REQUIRED TO HAVE BEEN TRAINED AND OR CERTIFIED IN THE PROPER TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT.

5. ALL TEST RESULTS SHALL BE TIME STAMPED, RECORDED AND PRESENTED PRIOR TO ENERGIZING AND TURN UP OF ANY EQUIPMENT.

6. GPS EQUIPMENT IS NOT TO BE TESTED OR ATTACHED TO ANY CABLING DURING TESTING, DURING SO WILL DAMAGE THE GPS UNIT.

7. PRIOR TO TESTING IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE TESTING PROCEDURES THEY ARE TO CALL AND OBTAIN ASSISTANCE FROM A QUALIFIED DESIGNATED TESTING REPRESENTATIVE.

8. EQUIPMENT IS NOT TO BE ENERGIZED UNTIL ALL TESTING HAS BEEN COMPLETED, APPROVED AND THE APPROPRIATE AUTHORITY HAS BEEN NOTIFIED AND GIVES APPROVAL TO ENERGIZE THE EQUIPMENT.

SITE WORK NOTES:

1. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.

2. 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 ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.

3. ALL (E) UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL (E) UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND

METHODS OF REMOVING OR ADJUSTING (E) UTILITIES

4. CONTRACTOR SHALL VERIFY ALL (E) UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER OR MOBILITE CM FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT THEIR OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL LOCAL UTILITY LOCATE HOT LINE, SUCH AS 811, FOR UTILITY LOCATIONS A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

5. ALL NEW AND (E) UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK. ANY COST RELATED TO ADJUSTING (E) STRUCTURES SHALL BE BORNE SOLELY BY THE CONTRACTOR.

6. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO (E) GRADES AT THE GRADING LIMITS.

7. 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.



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SITE WORK NOTES CONT'D

8. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY, UNLESS OTHERWISE NOTED.
9. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
10. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
11. ANY FILLS PLACED ON (E) SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE (E) SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
12. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO DEBRIS, PAPER, TRASH, WEEDS, BRUSH, EXCESS FILL, OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
13. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
14. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

ENVIRONMENTAL NOTES:

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES AS REQUIRED BY THE LOCAL JURISDICTION WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSION CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE. ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
7. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
8. SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE, BUT IS NOT LIMITED TO SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
10. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIBLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

11. GC TO PLACE FILTER MATERIAL AT ALL CATCH BASINS ADJACENT TO CONSTRUCTION SITE TO PREVENT SOLID WASTE CONTAMINATION FROM ENTERING SEWER SYSTEM

FOUNDATION, EXCAVATION AND BACKFILL NOTES:

1. ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL, UNLESS OTHERWISE NOTED.
2. BACKFILL OF POLE SHALL BE PERFORMED IN ONE OF THREE OPTIONS:
 - A. PREFERRED: RAINBOW INDUSTRIES POLE SETTING FOAM SHALL BE INSTALLED PER MANUFACTURER SPECS. FOAM SHALL ALWAYS BE USED FOR POOR SOILS.
 - B. SECONDARY: CONCRETE (REQUIRES MOBILITE CM WRITTEN APPROVAL) ALLOWABLE SOIL PRESSURE = 2000 PSF (ASSUMED). NON-NATIVE SOILS SHALL BE REMOVE FROM BORE AREA AND SHALL NOT BE REUSED FOR BACKFILL
3. ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
4. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF ADEQUATE BEARING CAPACITY IS NOT ACHIEVED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
5. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
6. ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557.
7. NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING.
8. FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
9. NEWLY GRADED GRAVEL SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: TYPAR-3401 AS MANUFACTURED BY TYPAR GEOSYNTHETICS OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENCE OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED, I.E. FDOT TYPE NO. 57 FOR FENCED COMPOUND; FDOT TYPE NO. 67 FOR ACCESS DRIVE AREA, UNLESS OTHERWISE NOTED.
10. IN ALL AREAS TO RECEIVE FILL: REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH (E)/PREPARED SOIL SURFACE.
11. WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOILS AND RECOMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
12. IN AREAS WHICH (E) GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION

AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.

13. (E) GRAVEL SURFACING MAY NOT BE REUSED.
14. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE.
15. PROTECT (E) GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING 'MATTIS' OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR ANY DAMAGE TO (E) GRAVEL SURFACING OR SUB GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTORS OPERATIONS.
16. DAMAGE TO (E) STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/ OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
17. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.



PROJECT NO:	LA90XSGQ3B
DRAWN BY:	DR
CHECKED BY:	JF

3	12/19/17	CLIENT COMMENTS
2	11/29/17	UC INCORPORATED
1	07/24/17	CLIENT COMMENTS
0	06/14/17	CONSTRUCTION DRAWINGS

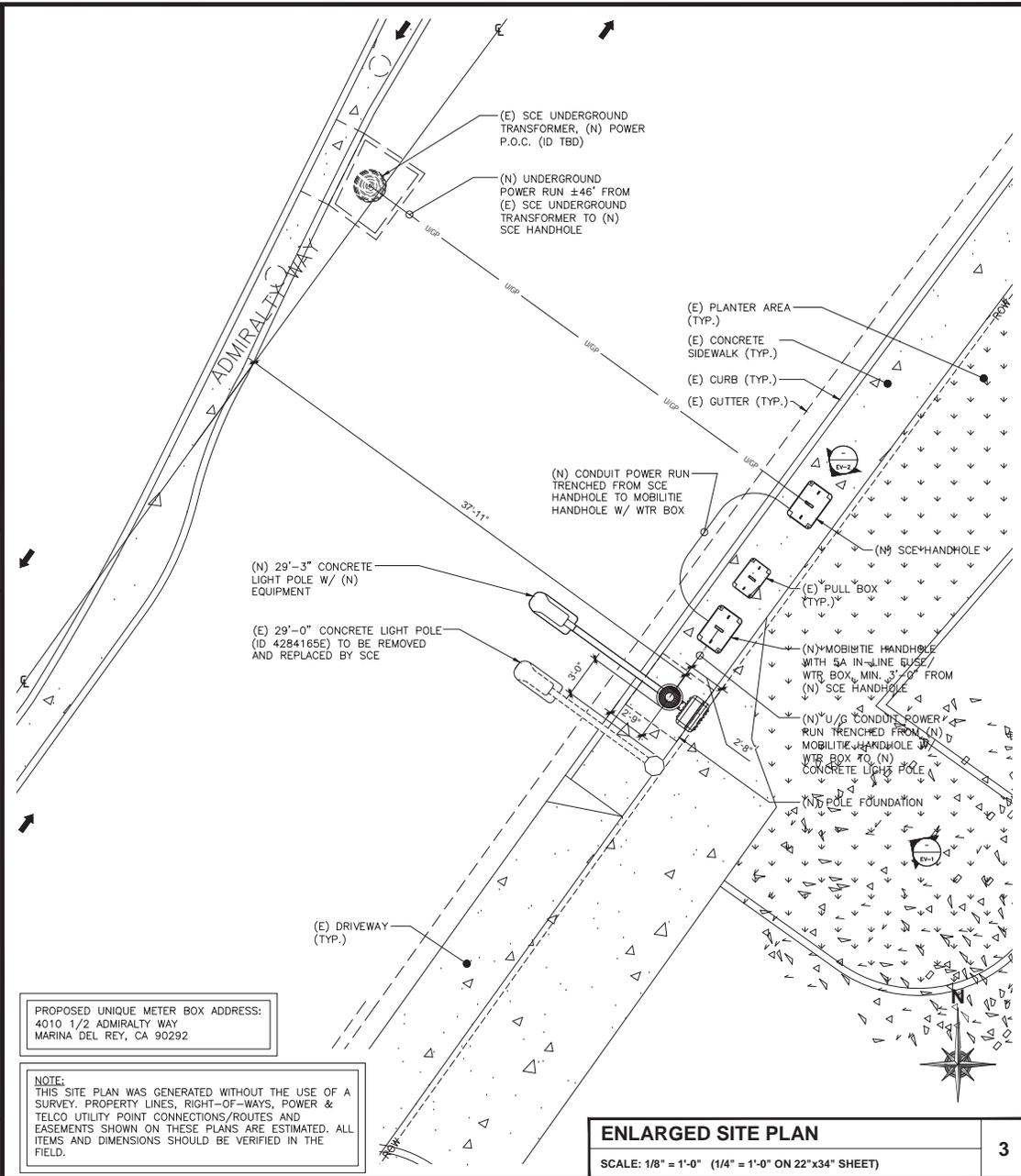
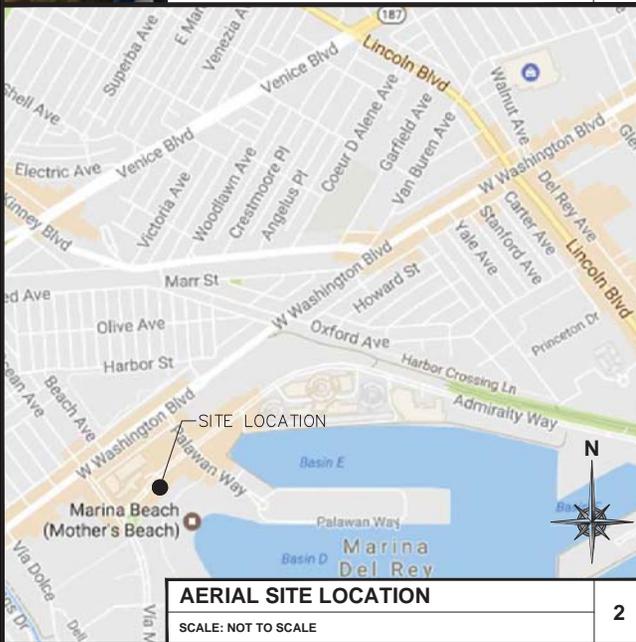
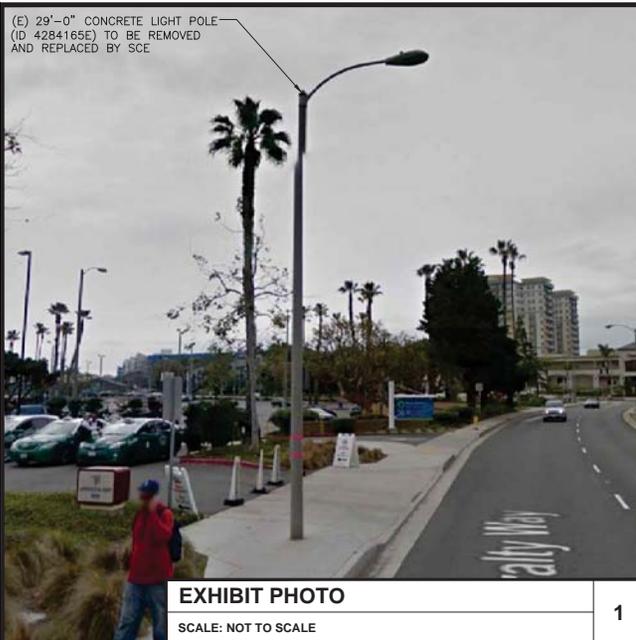
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LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-3



mobilitie
intelligent infrastructure

XD Industries
1572 N. BATAVIA ST. STE. 1D
DUNAGE, CA 92087

PROJECT NO: LA90XSGQ3B
DRAWN BY: DR
CHECKED BY: JF

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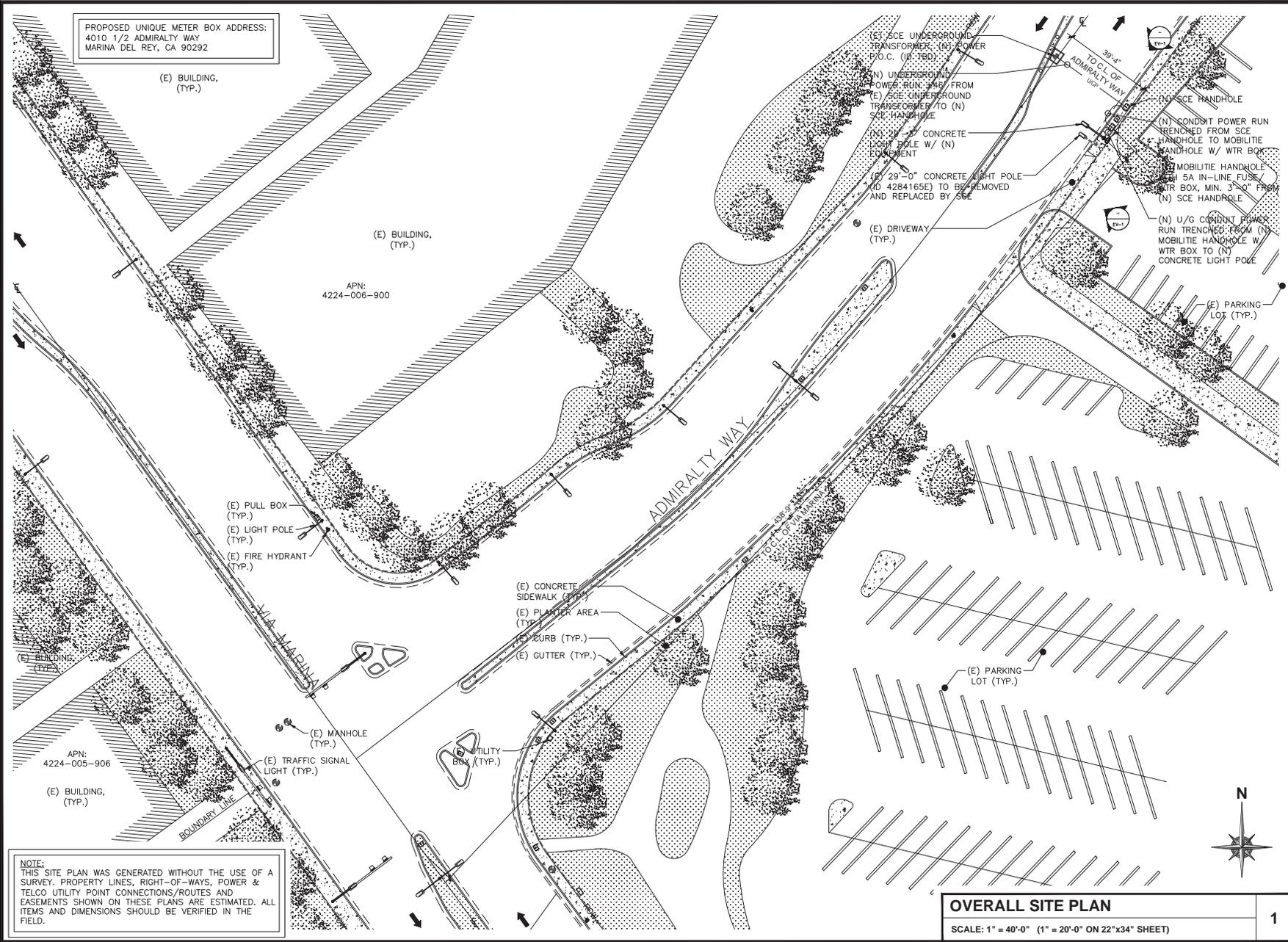
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LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
EXHIBIT PHOTO & SITE PLAN

SHEET NUMBER
SP-1



PROPOSED UNIQUE METER BOX ADDRESS:
4010 1/2 ADMIRALTY WAY
MARINA DEL REY, CA 90292

(E) BUILDING,
(TYP.)

(E) BUILDING,
(TYP.)

APN:
4224-006-900

(E) PULL BOX
(TYP.)
(E) LIGHT POLE
(TYP.)
(E) FIRE HYDRANT
(TYP.)

(E) CONCRETE
SIDEWALK (TYP.)
(E) PLANTER AREA
(TYP.)
(E) CURB (TYP.)
(E) GUTTER (TYP.)

APN:
4224-005-906

(E) BUILDING,
(TYP.)

(E) MANHOLE
(TYP.)
(E) TRAFFIC SIGNAL
LIGHT (TYP.)

(E) UTILITY
BOX (TYP.)

(E) SCE UNDERGROUND
TRANSFORMER, (N) POWER
P.O.C. (ID 780)
(N) UNDERGROUND
POWER RUN, 3/4" FROM
(E) SCE UNDERGROUND
TRANSFORMER TO (N)
SCE HANDHOLE
(N) 2'-0" CONCRETE
LIGHT POLE W/ (N)
EQUIPMENT
(D) 29'-0" CONCRETE LIGHT POLE
(NO 4284165E) TO BE REMOVED
AND REPLACED BY SCE

(E) DRIVEWAY
(TYP.)

(N) CONDUIT POWER RUN
TRENCHED FROM SCE
HANDHOLE TO MOBILITE
HANDHOLE W/ WTR BOX

(N) MOBILITE HANDHOLE
WITH 5A IN-LINE FUSE/
WTR BOX, MIN. 3'-0" FROM
(N) SCE HANDHOLE

(N) U/G CONDUIT POWER
RUN TRENCHED FROM (N)
MOBILITE HANDHOLE W/
WTR BOX TO (N)
CONCRETE LIGHT POLE

(E) PARKING
LOT (TYP.)



NOTE:
THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A
SURVEY. PROPERTY LINES, RIGHT-OF-WAYS, POWER &
TELCO UTILITY POINT CONNECTIONS/ROUTES AND
EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL
ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE
FIELD.

OVERALL SITE PLAN
SCALE: 1" = 40'-0" (1" = 20'-0" ON 22"x34" SHEET)

1



PROJECT NO: LA90XSGQ3B
DRAWN BY: DR
CHECKED BY: JF

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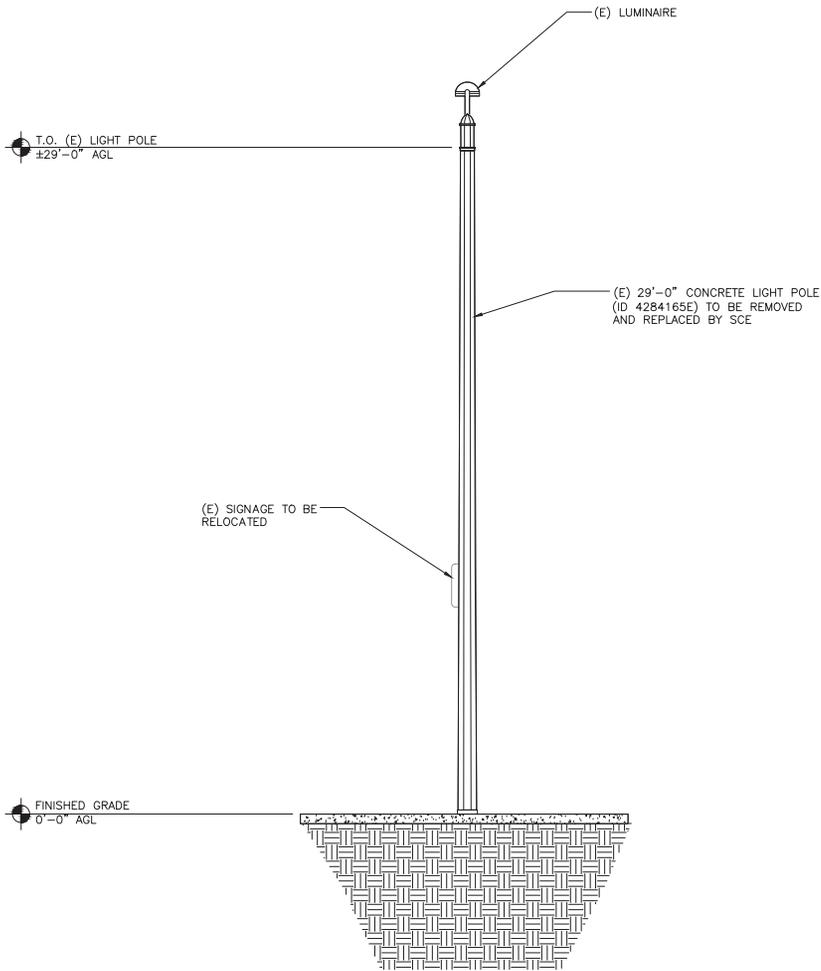
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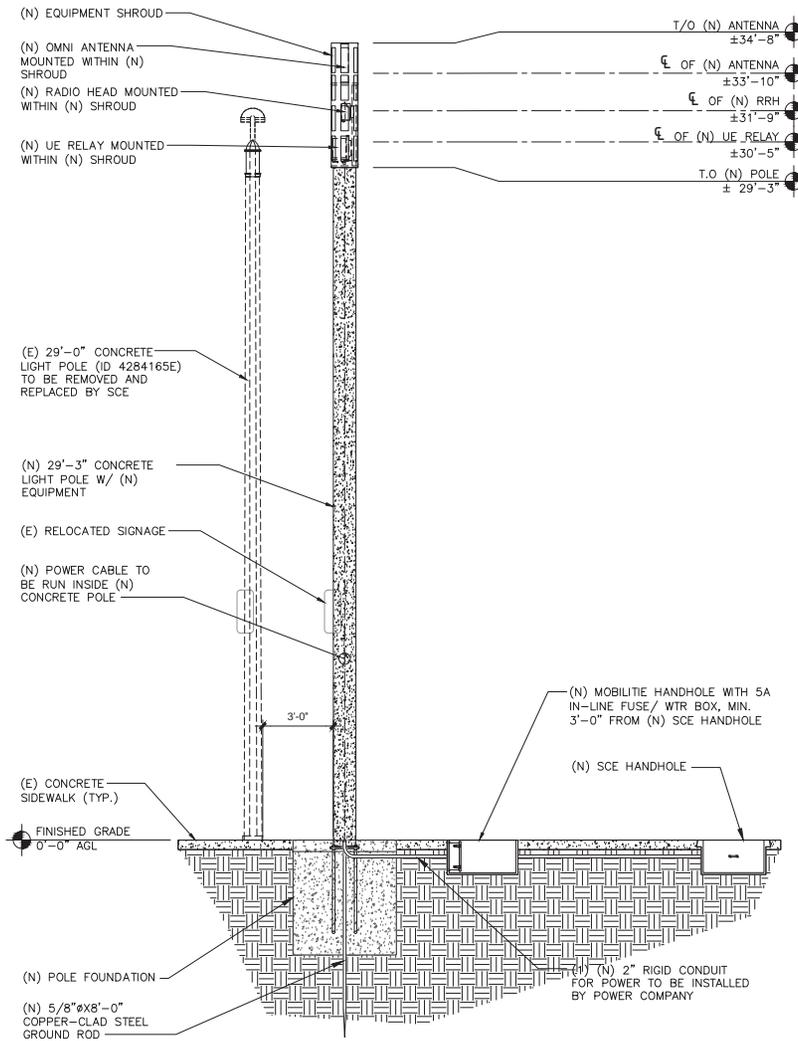
LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
SP-2



EXISTING REAR ELEVATION



NEW REAR ELEVATION

POLE ELEVATIONS
SCALE: 3/16" = 1'-0" (3/8" = 1'-0" ON 22"x34" SHEET)

1



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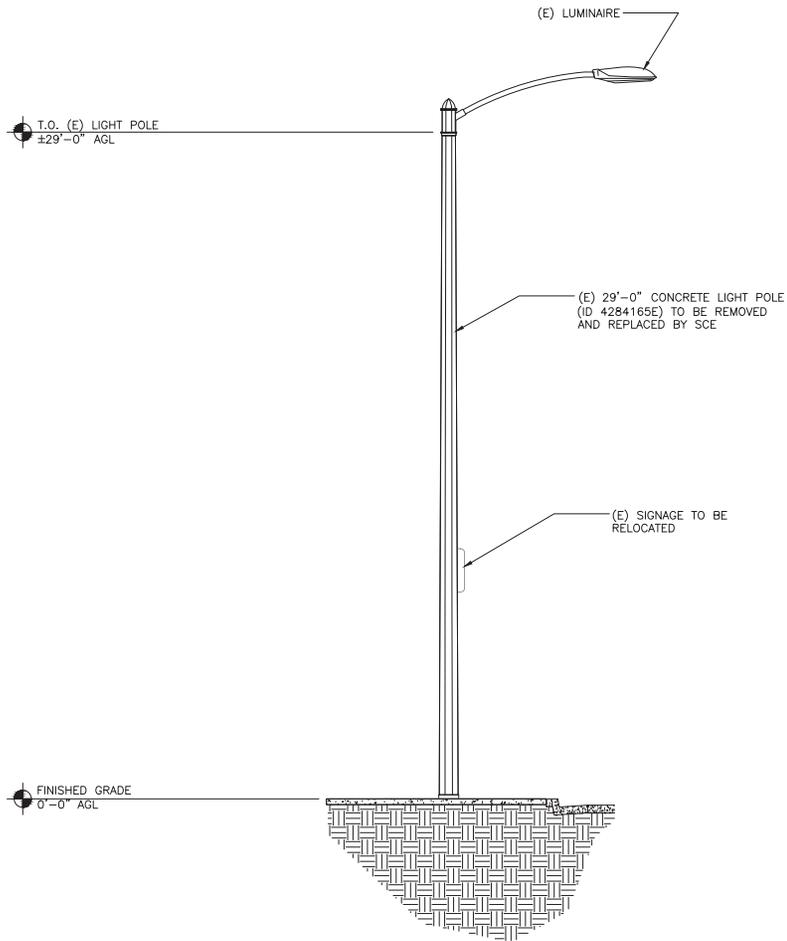
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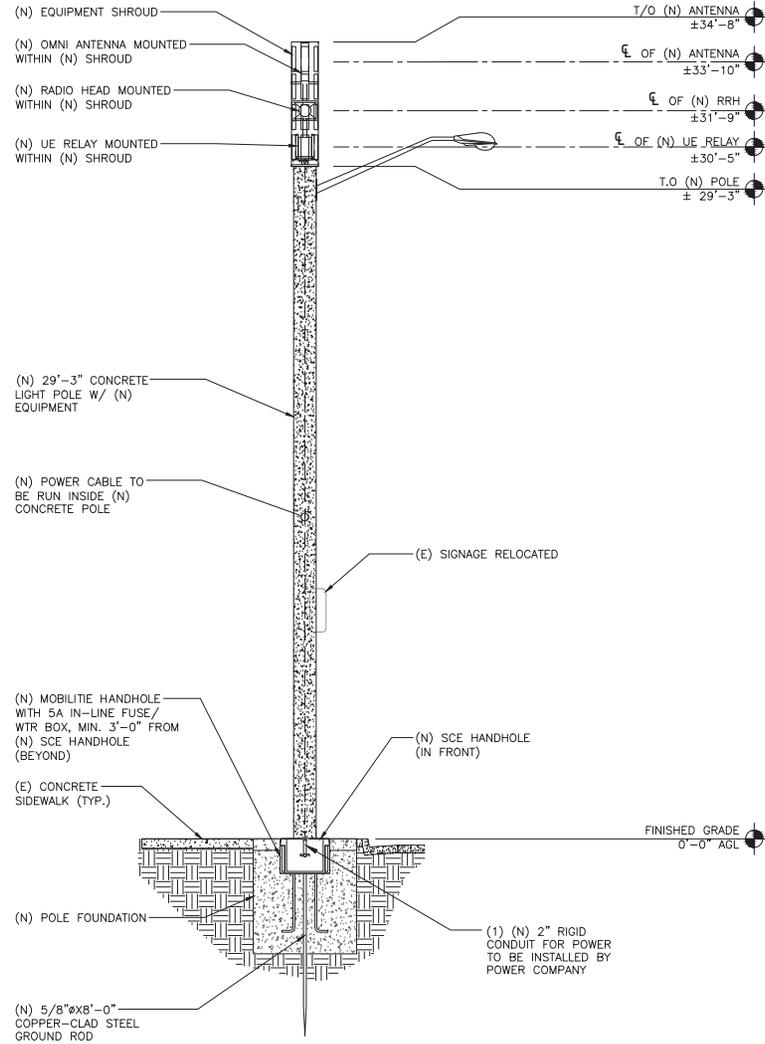
LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
POLE ELEVATIONS

SHEET NUMBER
EV-1



EXISTING SIDE ELEVATION



NEW SIDE ELEVATION

POLE ELEVATIONS

SCALE: 3/16" = 1'-0" (3/8" = 1'-0" ON 22"x34" SHEET)

1



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CHECKED BY: JF

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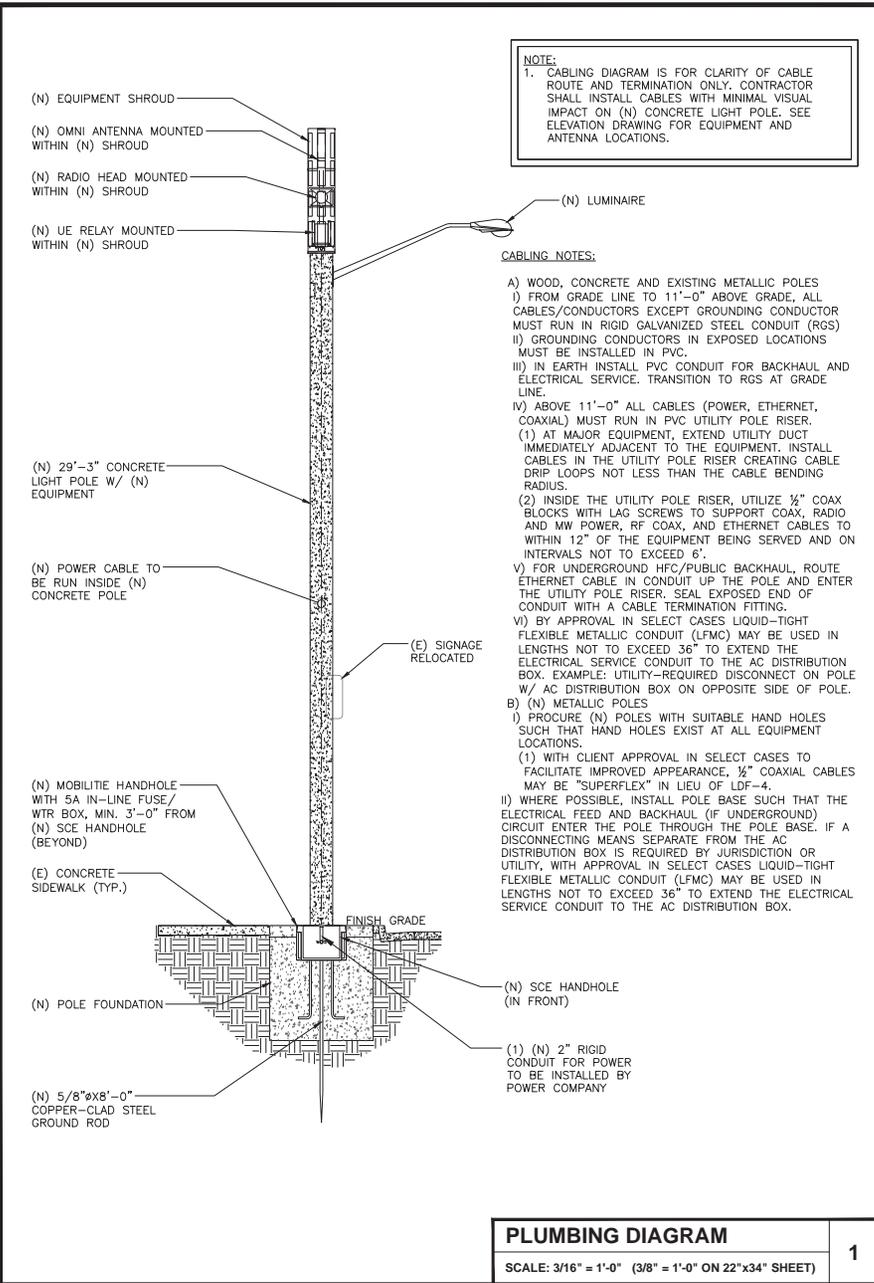
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LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
POLE ELEVATIONS

SHEET NUMBER
EV-2



BILL OF MATERIALS							
QTY.	DESCRIPTION	MANUFACTURER	MODEL NUMBER	AZIMUTH	CABLE	DIMENSIONS (HxWxD)	WEIGHT
1	ANTENNA	CCI	SCA-OM-360FX-Q-H2	TBD	TBD	20.9" X 4" DIAMETER	3.2 LBS
1	EQUIPMENT SHROUD	CONCEALFAB CORP.	TBD	TBD	TBD	65.4" X 14.25"	TBD
1	UE RELAY	AIRSPAN	iR460-SPB-ST-1-P-0	--	--	13" X 7" DIAMETER	8.8 LBS
1	RADIO	NOKIA	473603A	--	--	9.7" X 12.9" X 6.3"	24.7 LBS
1	GPS	NOKIA	FAWD/472932A	--	--	3.1" X 2.1" DIAMETER	0.3 LBS
1	CONCRETE LIGHT POLE	AMERON	BP300x09	--	--	29'-3" X 11-13/16" Ø	2,900
1	10A IN-LINE FUSE	TBD	TBD	--	--	3.9" X 0.7"	TBD
1	WTR FUSE BOX	STAHLIN	J1412HPL	--	--	15.5" X 6.25" X 13.5"	0.16 OZ
--	--	--	--	--	--	--	--

BILL OF MATERIALS	2
SCALE: NOT TO SCALE	

NOT USED	3
SCALE: NOT TO SCALE	

mobilitie
intelligent infrastructure

XD Industries
1572 N. BATAVIA ST. STE. 1D
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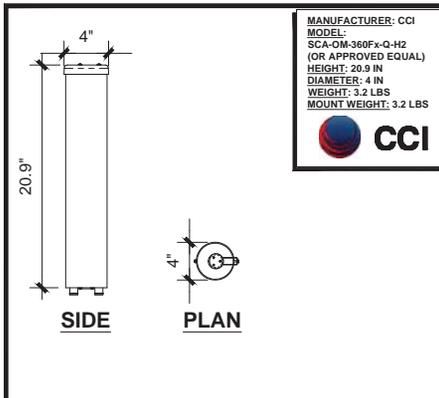
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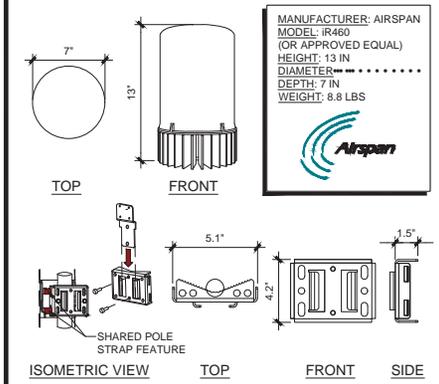
LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
PLUMBING & RISER DIAGRAM

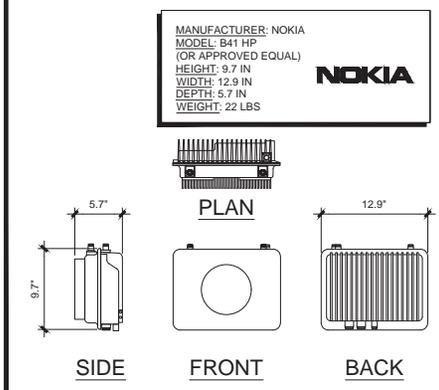
SHEET NUMBER
PL-1



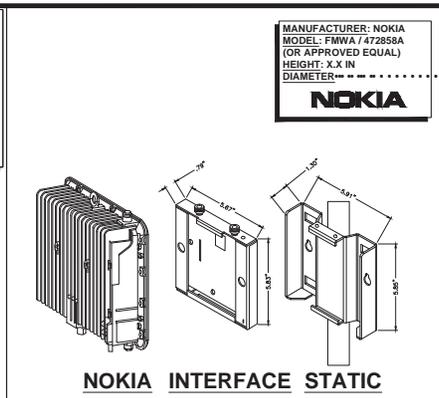
CCI SCA-OM-360Fx-Q-H2 SCALE N.T.S. **1**



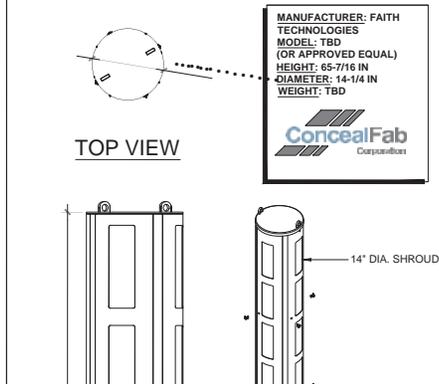
UE RELAY SCALE N.T.S.



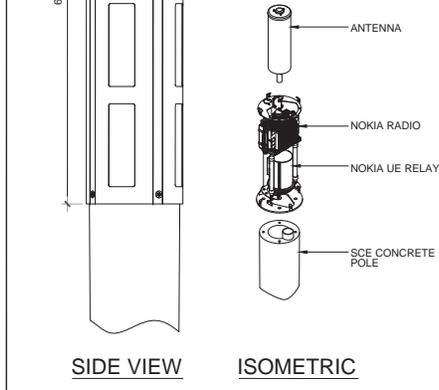
REMOTE RADIO HEAD SCALE N.T.S. **3**



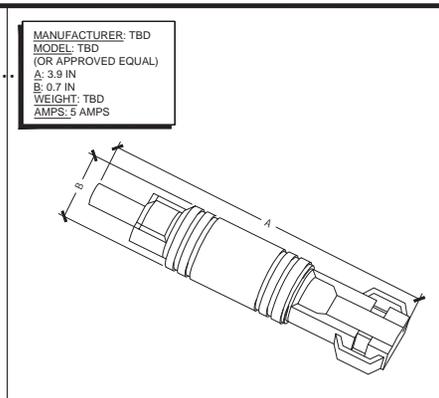
NOKIA RADIO MOUNT SCALE N.T.S.



SHROUD DETAIL SCALE N.T.S. **5**



POL MO T D SIG S SCALE N.T.S. **5**



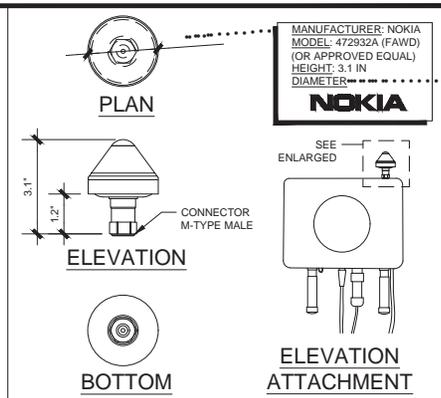
IN-LINE FUSE SCALE N.T.S. **6**



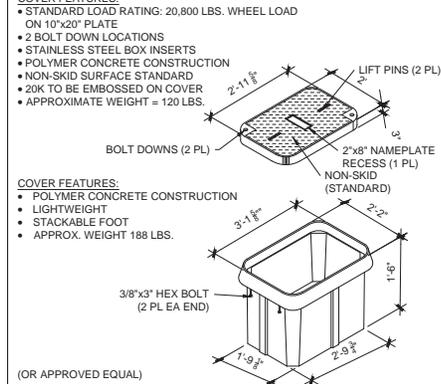
EMERGENCY CONTACT SIGN SCALE N.T.S. **6**



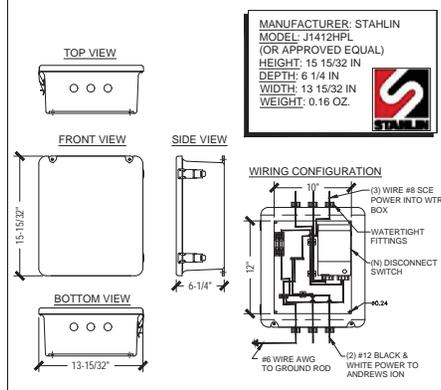
WTR FUSE BOX SCALE N.T.S. **10**



GPS UNIT SCALE N.T.S. **8**



GPS UNIT SCALE N.T.S. **8**



WTR FUSE BOX SCALE N.T.S. **10**



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LA90XSGQ3B
 MARINA DEL REY, CA 90292
 (N) CONCRETE LIGHT POLE

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
EQ-1

PROJECT NO: LA90XSGQ3B
DRAWN BY: DR
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LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
POLE SPECIFICATIONS

SHEET NUMBER
EQ-2

REV.	DATE	DESCRIPTION	DRN.	APPR.
A	09/07	REDRAWN, ADDED POLE P/N	A.C.	
B	05/08	UPDATED FOR ORACLE	T.L.	
C	02/10	A/B WERE A36M55, NOW A307	J.C.	
D	06/15	UPDATED TO NEW DWG. STDS.	L.P.	

"F" LEVEL CONFIG CODES			"P" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO.	OPTION CLASS	ENTRY	INFO.
COATING	S		MIX	81	
HH COVER	66546E		FINISH	5	
DRILL IN MOD	MOD24		BASEPLATE	63250E	
			COLLAR	NONE	
			POLE TOP CON.	MOD98	
			CAST-IN MOD	MODSX300	

300MM NON-TAPERED BASE PLATE ROUND POLE

POLE DESIGN-NATION	POLE HEIGHT ABOVE GRADE	OVERALL POLE LENGTH	BOLT CIRCLE	BASE O.D.	ULTIMATE G.L. MOMENT (ft.-lbs.)	POLE WEIGHT (lbs.)
BP300X09	29'-3"	29'-6"	16"	11-13/16"	65,000	2900

() POLES REQUIRED (P/N: BP300X09-16137), EACH WITH 6" WALL BRACKET ELLIPTICAL ARM (P/N: LAE66A)

NOTES:

- MIX (8155): SCE BLACK & WHITE, LIGHTLY EXPOSED AGGREGATE FINISH WITH FLAT WATER SEALER COATING.
- ASTM C-150 TYPE III GRAY CEMENT.
- fc @ 28 DAYS=7,000 PSI, USING SPUN CYLINDER TEST.
- fc @ 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.
- THE POLE DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE SIDE MOUNTED TAPERED ELLIPTICAL ALUMINUM ARM (NOT TO EXCEED 6" OFFSET, 3.7 SQ. FT. EPA, 25 LBS.) WITH THE ARM HOLDING A DOWNWARD FACING AREA OR PENDENT LUMINAIRE (NOT TO EXCEED 2.0 SQ. FT. EPA, 50 POUNDS); THE POLE ALSO SUPPORTS (1) ANTENNA SHROUD CENTERED 3' ABOVE THE POLE TOP (NOT TO EXCEED 6.3 SQ. FT. EPA, 225 LBS. MAX) AS DESIGNED PER THE 2013 AASHTO LTS-6 (CRITERIA FOR STREET LIGHTING POLES), 2010 CALIFORNIA BUILDING CODE & ASCE7-05 FOR 90 MPH WIND AND SEISMIC ZONE (3-SECOND GUSTS) & SEISMIC CRITERIA S_s=1.75 & S₁=0.6. PLEASE CONTACT & ADVISE AMERON ENGINEERING IF THE INTENDED VALUES EXCEED THESE VALUES.
- DUE TO THE NATURE & CHARACTERISTICS OF CONCRETE, SIDE MOUNT SPACING DIMENSIONS CAN ONLY BE TAKEN TO THE NEAREST 1/8 INCH.

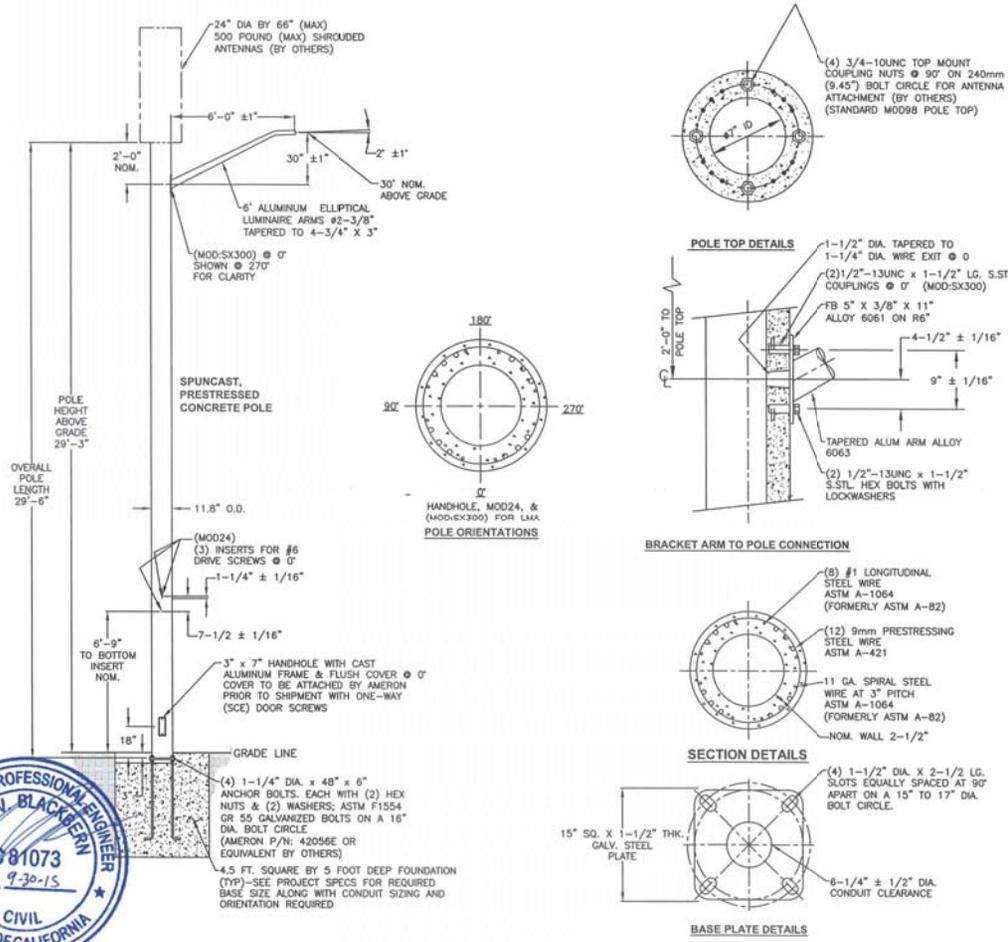
APPROVED BY _____ DATE _____

**SOUTHERN CALIFORNIA EDISON
BP300X09 POLE WITH SINGLE 6" ARM**

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



DRAWN: SJB	DATE: 10/2003
SCALE: N.T.S.	DWG. NO. 040-01277
	REV D



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

PROJECT NO: LA90XSGQ3B

DRAWN BY: DR

CHECKED BY: JF

3	12/19/17	CLIENT COMMENTS
2	11/29/17	UC INCORPORATED
1	07/24/17	CLIENT COMMENTS
0	06/14/17	CONSTRUCTION DRAWINGS

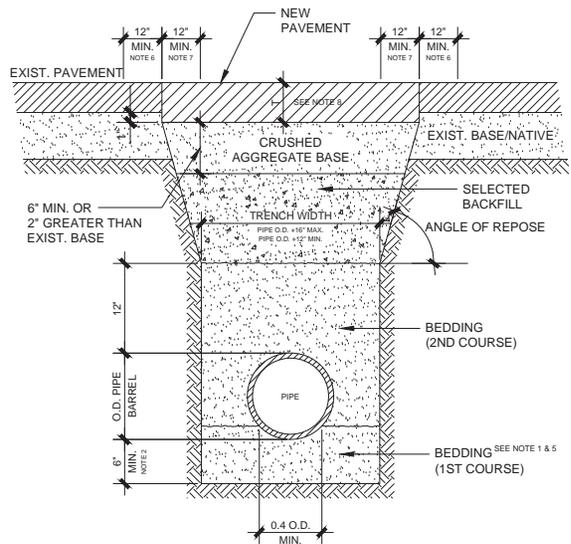
IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

NOT FOR CONSTRUCTION

LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
TRENCH DETAILS

SHEET NUMBER
EX-1



NOTES:

- BEDDING MATERIAL SHALL FIRST BE PLACED SO THAT THE PIPE IS SUPPORTED FOR FULL LENGTH OF THE BARREL WITH FULL BEARING (0.4 O.D. MIN.).
- IN CASES WHERE NATIVE FREE-DRAINING GRANULAR MATERIAL IS SUITABLE FOR USE AS BEDDING, THE TRENCH MAY BE EXCAVATED TO A POINT ABOVE THE INVERT GRADE AND THE TRENCH BOTTOM HAND-SHAPED SO THAT THE BOTTOM SEGMENT OF THE PIPE IS FIRMLY SUPPORTED ON UNDISTURBED MATERIAL.
- IF THE MAXIMUM TRENCH WIDTH IS EXCEEDED, ADDITIONAL BEDDING, ANOTHER TYPE BEDDING OR A HIGHER STRENGTH OF PIPE SHALL BE PROVIDED AS DETERMINED BY THE ENGINEER.
- BEDDING AND BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION, WITH THE EXCEPTION OF THE UPPER SIX (6) INCHES OF SUBGRADE WHICH SHALL BE COMPACTED TO A MINIMUM OF 95 RELATIVE COMPACTION. COMPACTION METHODS SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- BEDDING MATERIAL SHALL BE SAND.
- PRIOR TO INSTALLING FINISH SURFACE COURSE, ASPHALT BASE COURSE PLUS ADDITIONAL MINIMUM 12" WIDTH OF EXISTING PAVEMENT ON BOTH SIDES OF MAIN AND LATERAL EXCAVATIONS SHALL BE COLD PLANED SO AS TO RESULT IN A MINIMUM FINISH SURFACE THICKNESS OF 1.5" AND RECEIVE AN APPLICATION OF TACK COAT.
- SAW CUT AND REMOVE 12" TO CREATE A STRAIGHT EDGE PRIOR TO INSTALLING A.C. BASE COURSE.
- T = PAVEMENT THICKNESS = EXIST. +1" WITH A 4" MIN. FOR A.C. OR 6" MIN. FOR PCC.
BASE COURSE = C2-AR-4000
MIN 1.5" THICK FINISH COURSE = D2-AR-4000

TRENCH SECTION DETAIL

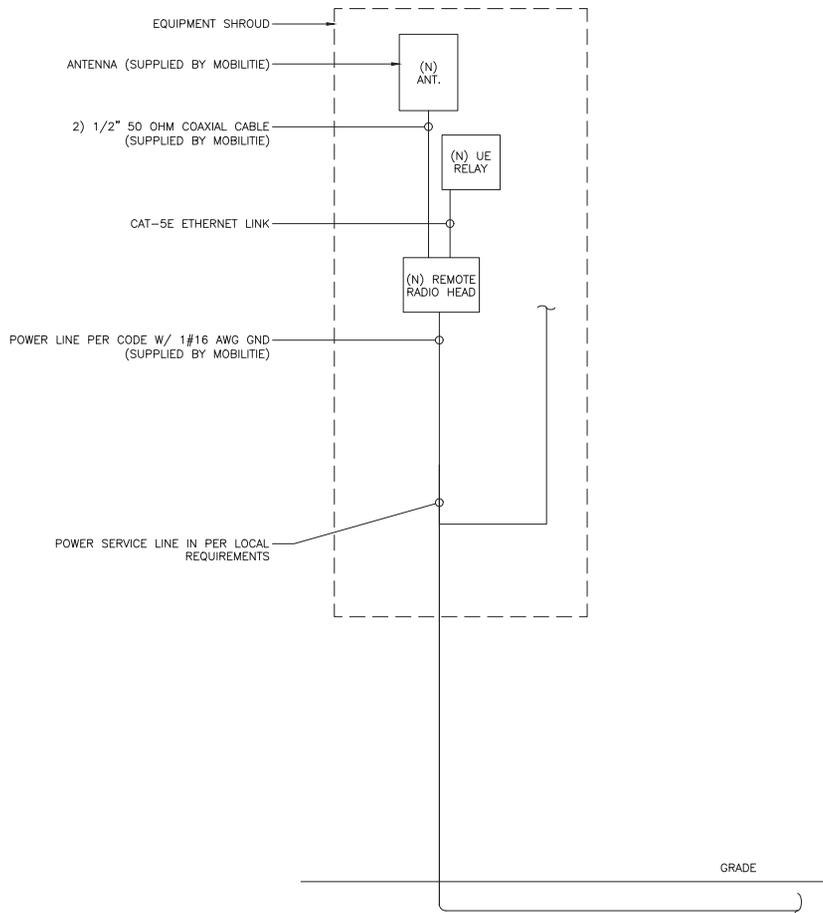
SCALE: NOT TO SCALE

1

NOT USED

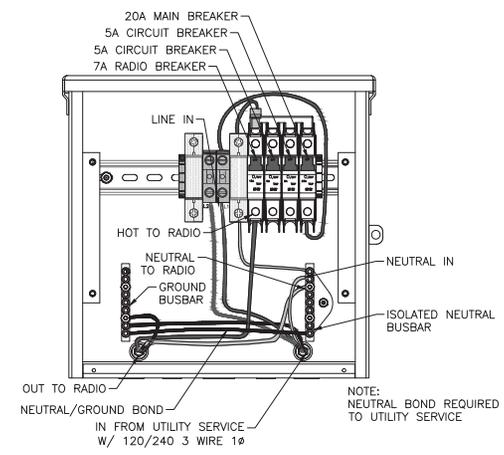
SCALE: NOT TO SCALE

2



ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

1



BREAKER SCHEDULE
SCALE: NOT TO SCALE

2

NOTES:

1. NOMINAL POWER IS CALCULATED AS 80% OF OEM DOCUMENTED MAXIMUM POWER.
2. CALCULATIONS FOR UE W/ NOKIA DO NOT NEED TO INCLUDE THE POWER FOR THE UE ANTENNA AS IT IS INCLUDED IN THE MAX POWER FIGURE. CALCULATIONS FOR UE W/ AIRSPAN MUST INCLUDE UE AS IT IS NOT INCLUDED
3. KVA IS CALCULATED FROM THE CONSUMPTION VALUE ASSUMING A PF=1. MAXIMUM POWER WAS USED FOR KVA. WHERE MAXIMUM WAS NOTED BY THE OEM THE QUOTED FIGURE WAS USED. WHERE AVERAGE/NOMINAL POWER WAS NOTED BY THE OEM MAXIMUM POWER WAS CALCULATED BY INCREASING AVERAGE/NOMINAL POWER BY A FACTOR OF 50%

Nokia Scenario 5 B41 High Power Radio and Aispan UE Backhaul					
Unit	Sub Description	Max Power (W)	Max Current (A)	KVA	kWh/Yr
NSN - B41 High	LTE Base Station	360	4.00	0.36	3153.6
Airspan IR460	UE Relay	N/A	N/A	N/A	N/A
Total		360	4.00	0.36	3153.6

LOAD CALCULATIONS
SCALE: NOT TO SCALE

3



PROJECT NO: LA90XSGQ3B
DRAWN BY: DR
CHECKED BY: JF

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LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

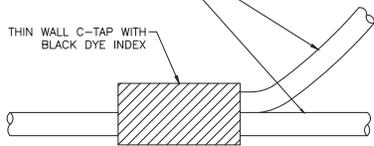
SHEET TITLE
ELECTRICAL

SHEET NUMBER
E-1

NOTE:
CONTRACTOR TO SURROUND COMPLETED CONNECTION WITH HEAT-SHRINK TUBING TO ENSURE WEATHER PROOF CONNECTION

#6 THHN/THWN STRANDED BLACK JACKET OR SOLID TIN COPPER FROM EQUIPMENT TO MAIN GROUND CONDUCTOR, TYP

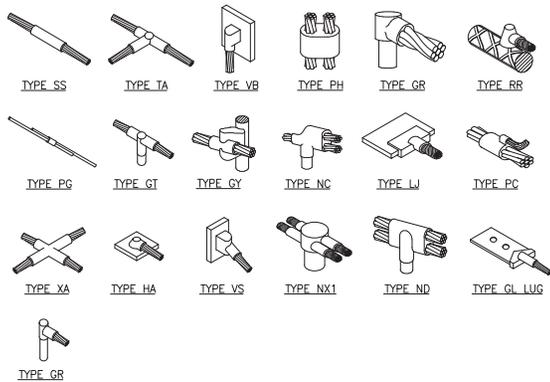
THIN WALL C-TAP WITH BLACK DYE INDEX



C-TAP DETAIL

1

SCALE: NOT TO SCALE

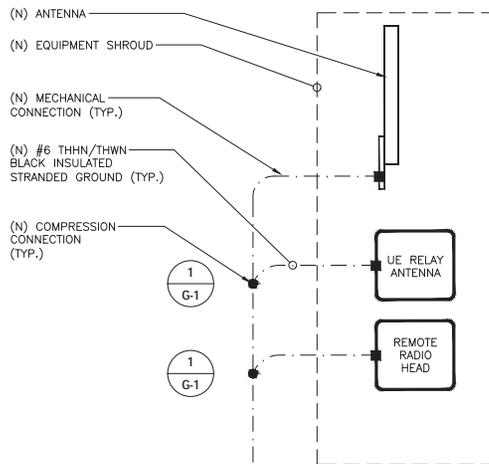


- GROUNDING BONDS:** ALL BONDS ARE TO BE MADE WITH #2 AWG STRANDED COPPER IN BLACK INSULATION. (ATT-TP-76416 7, 6.7)
- EXTERIOR UNIT BONDS:** ALL METALLIC OBJECTS SHALL BE BONDED TO THE GROUND ROD. (ATT-TP-76416 7, 12.6)
- GROUND ROD:** UL LISTED COPPER CLAD STEEL GROUND ROD WITH MINIMUM DIAMETER OF 5/8" AND MINIMUM LENGTH OF 8 FEET. ALL GROUND RODS MAY BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 30" BELOW GRADE OR 6 INCHES BELOW FROST LINE. (ATT-TP-76416 1.4 / 2.2, 3, 10)

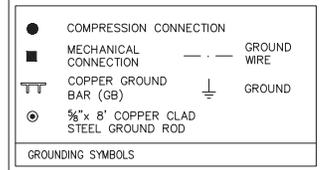
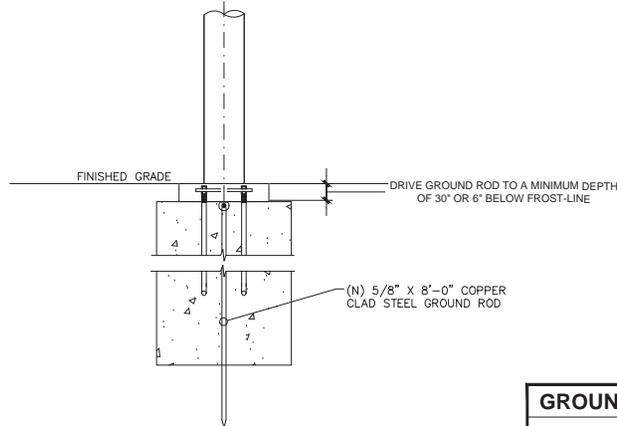
WELD CONNECTION DETAILS

2

SCALE: NOT TO SCALE



#6 SOLID TIN COATED MAIN GROUND CONDUCTOR ROUTED INSIDE (N) CONCRETE POLE



- NOTES:**
- GROUNDING RISER FOR DIAGRAMMATIC PURPOSES ONLY. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.
 - ALL RGS TO BE GROUNDED AT BOTH ENDS USING GROUNDING BUSHINGS
 - GROUND WIRE BELOW 11' AGL TO BE RUN IN 1/2" SCHEDULE 40 PVC

GROUNDING RISER DIAGRAM

3

SCALE: NOT TO SCALE



PROJECT NO:	LA90XSGQ3B
DRAWN BY:	DR
CHECKED BY:	JF

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LA90XSGQ3B
MARINA DEL REY, CA 90292
(N) CONCRETE LIGHT POLE

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1

PEDESTRIAN NOTES:
 A DEDICATED INDIVIDUAL WILL BE ASSIGNED THE RESPONSIBILITY OF ESCORTING PEDESTRIANS THROUGH THE WORK AREA IN ACCORDANCE WITH THREE MAJOR CONSIDERATIONS.

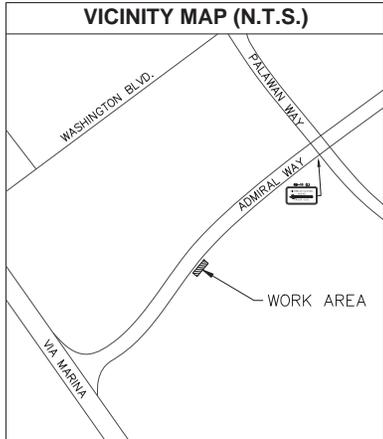
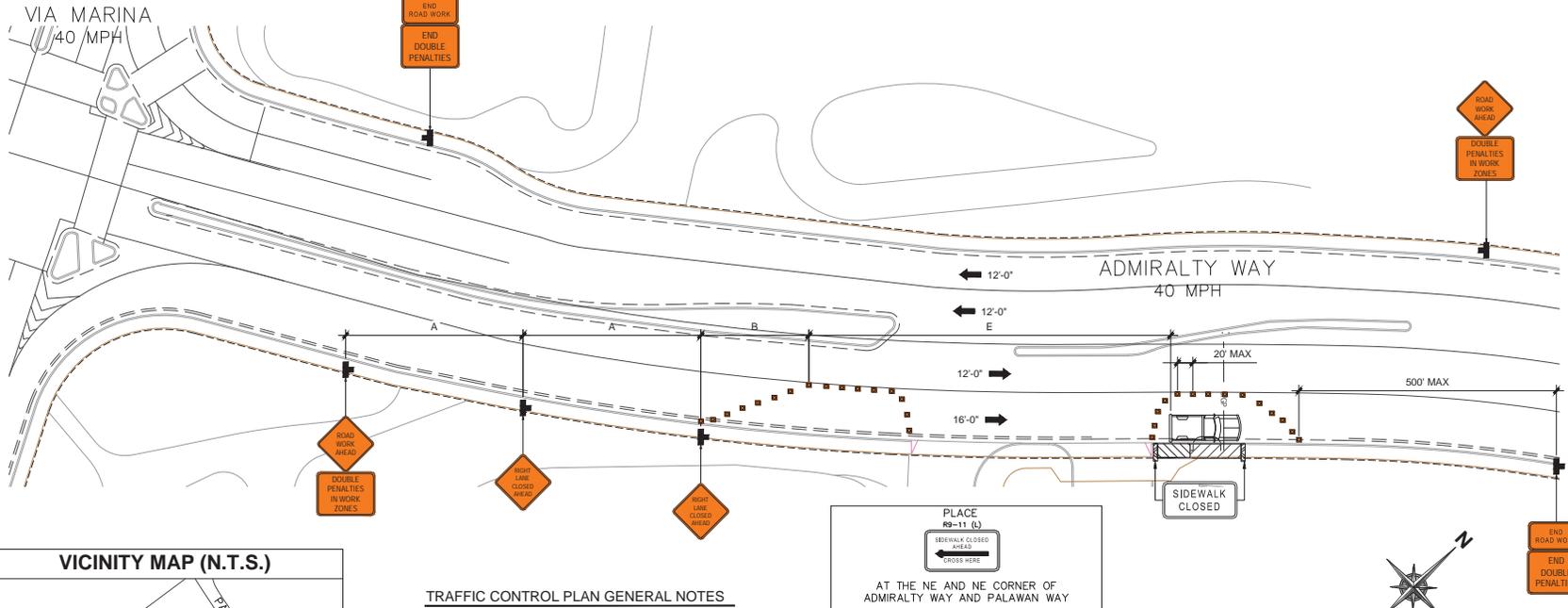
1. PEDESTRIANS SHOULD NOT BE LED INTO DIRECT CONFLICT WITH WORK SITE VEHICLES, EQUIPMENT OR OPERATIONS.
2. PEDESTRIANS SHOULD NOT BE LED INTO DIRECT CONFLICT WITH MAINLINE TRAFFIC MOVING THROUGH OR AROUND THE WORK SITE.
3. PEDESTRIANS SHOULD BE PROVIDED WITH A REASONABLE SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS NEARLY AS PRACTICAL THE MOST DESIRABLE CHARACTERISTICS OF THE EXISTING SIDEWALK OR FOOTPATH

DIMENSIONS	FEET
A (DISTANCE BETWEEN SIGNS)	250
B (MINIMUM MERGERS TAPER L)	320
C (MINIMUM SHIFTING TAPER 1/2 L)	160
E (BUFFER SPACE)	315

EXCAVATION DATA IN CITY RIGHT OF WAY	
EXCAVATION IN CONCRETE SIDEWALK	25 SQ FT
EXCAVATION IN DIRT LANDSCAPE	0 SQ FT
EXCAVATION IN ASPHALT STREET	0 SQ FT
TOTAL EXCAVATION	25 SQ FT

WORK HOURS: 9:00 A.M. TO 3:00 P.M. MON - FRI
 CROSS STREET: ADMIRALTY WAY & VIA MARINA
 WORK TYPE: UTILITIES
 NEAREST ADDRESS: 14160 PALAWAN WAY, MARINA DEL REY, CA 90292

LINE TYPE LEGEND	
	CENTER LINE
	LANES
	GUTTER
	CURB/SIDEWALK



TRAFFIC CONTROL PLAN GENERAL NOTES

1. ALL WORK AND MATERIALS DOES COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
2. ALL STRIPING AND MARKINGS DOES CONFORM TO THE STATE OF CALIFORNIA, STANDARD PLANS AND SPECIFICATIONS, INCLUDING STANDARD PLAN A-20, DETAILS.
3. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES, AND DRIVEWAYS AT ALL TIMES.
4. FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK AREA OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE, IF USED DURING NIGHT-TIME HOURS.
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS, OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC. FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-WORK HOURS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
15. HALF ROAD CLOSURE REQUIRES APPROVAL FROM DEPARTMENT OF PUBLIC WORKS. UPON COMPLETION OF EXCAVATION, CONTRACTOR SHALL RESTORE ANY PAVEMENT MARKINGS AND STRIPING THAT WERE REMOVED DURING CONSTRUCTION.
16. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO TRAFFIC SIGNAL EQUIPMENT SUCH AS LOOP DETECTORS, CONDUIT, ETC.
17. CONTRACTOR SHALL CONTACT TRANSIT AUTHORITY 72 HOURS PRIOR TO START OF CONSTRUCTION TO TEMPORARY RELOCATE BUS STOP.
18. ALL EXCAVATIONS SHALL BE BACKFILLED OR TRENCHPLATED AT THE END OF EACH WORK DAY. ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCHPLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCHPLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED.
19. TEAR DOWN AND SET UP TEMPORARY TRAFFIC CONTROL DEVICES DAILY.
20. CONTRACTOR SHALL CONTACT LADOT AT (213) 485-2298 FIVE BUSINESS DAYS PRIOR TO CONSTRUCTION TO POST TEMPORARY NO STOPPING ANYTIME SIGNS AND COVER PARKING METERS.

LEGEND	
	TRAFFIC CONE
	WORK AREA
	TYPE 3 BARRICADES
	PORTABLE SIGN
	ARROW BOARD
	WORK VEHICLE

IF YOU DIG IN ANY STATE DIAL 811 FOR THE LOCAL "ONE CALL CENTER" - IT'S THE LAW

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE (E) UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



PROJECT NO: LA90XSGQ3B
 DRAWN BY: DR
 CHECKED BY: JF

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2	11/29/17	UC INCORPORATED
1	07/24/17	CLIENT COMMENTS
0	06/14/17	CONSTRUCTION DRAWINGS

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LA90XSGQ3B
 MARINA DEL REY, CA 90292
 (N) CONCRETE LIGHT POLE

SHEET TITLE
VEHICULAR TRAFFIC CONTROL PLAN

SHEET NUMBER
TC-1

MOBILITIE, LLC PHOTO SIMULATION

FOR NEW SMALL CELL SITE LOCATED AT:

ADMIRALTY WAY & VIA MARINA | MARINA DEL REY, CA 90292
SITE ID: LA90XSGQ3B



VICINITY MAP

© 2016 Google



PREVIEW

SITE DESCRIPTION:
NEW SMALL CELL SITE
WITHIN EXISTING RIGHT
OF WAY

VIEWS: 3
SHEET INDEX
SHEET 2: VIEW 1
SHEET 3: VIEW 2
SHEET 4: VIEW 3

Photo Simulation By:



Photo Simulation

This photographic simulation is intended as a visual representation only and is not to be used for construction purposes. Accuracy of photo simulation is based on information provided by project applicant.

MOBILITIE, LLC

Site ID: LA90XSGQ3B

POLE TYPE: NEW CONCRETE LIGHT POLE
4135 ADMIRALTY WAY
MARINA DEL REY, CA 90292



EXISTING VIEW



PROPOSED
EQUIPMENT ON
NEW CONCRETE
LIGHT POLE

PROPOSED VIEW

VIEW 1 - LOOKING EAST FROM ADMIRALTY WAY

DATE: 12.20.17

Photo Simulation By:

Tangent
SYSTEMS
424-262-4167 | tangent.systems

Photo Simulation

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MOBILITIE, LLC

Site ID: LA90XSGQ3B

POLE TYPE: NEW CONCRETE LIGHT POLE

4135 ADMIRALTY WAY
MARINA DEL REY, CA 90292



EXISTING VIEW



PROPOSED VIEW

PROPOSED
EQUIPMENT ON
NEW CONCRETE
LIGHT POLE

DATE: 12.20.17

VIEW 2 - LOOKING SOUTHWEST FROM ADMIRALTY WAY

SHEET: 3 / 4

Photo Simulation By:

Tangent
SYSTEMS
424-262-4167 | tangent.systems

Photo Simulation

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MOBILITIE, LLC

Site ID: LA90XSGQ3B

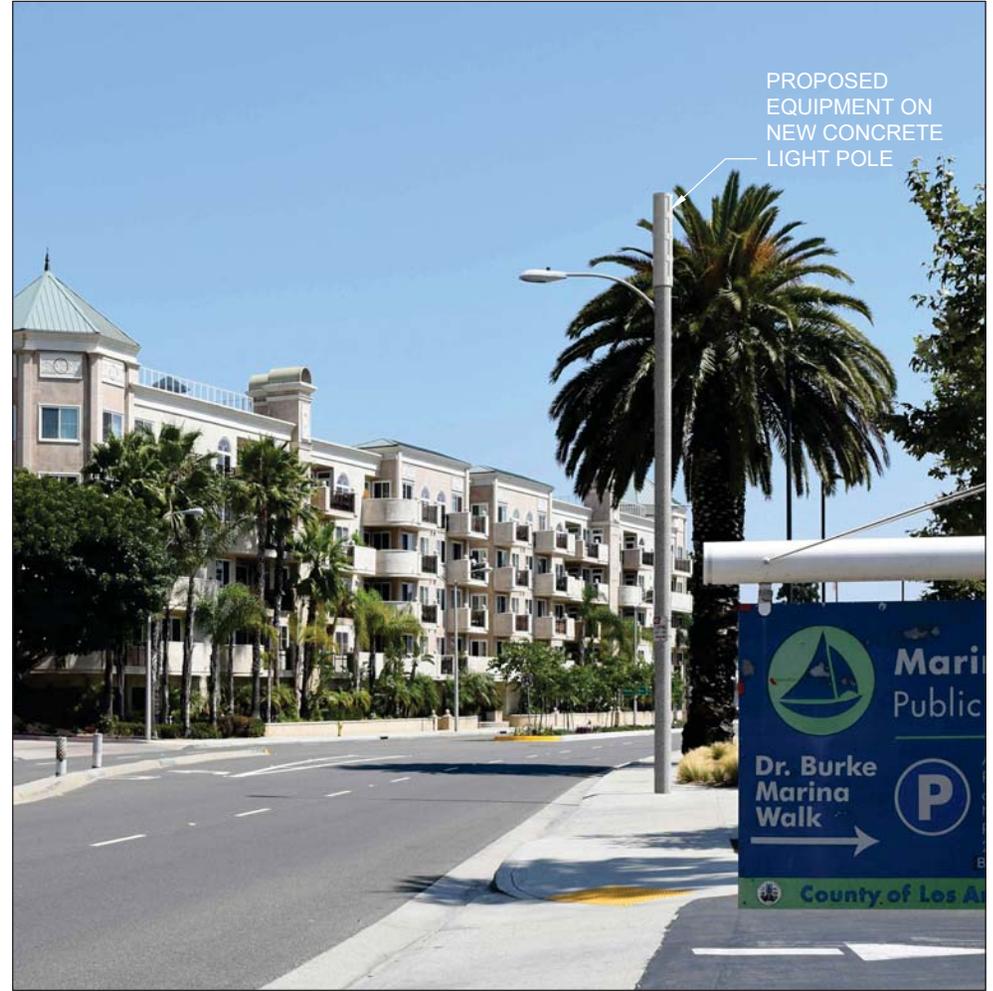
POLE TYPE: NEW CONCRETE LIGHT POLE

4135 ADMIRALTY WAY
MARINA DEL REY, CA 90292



EXISTING VIEW

DATE: 12.20.17



PROPOSED
EQUIPMENT ON
NEW CONCRETE
LIGHT POLE

PROPOSED VIEW

VIEW 3 - LOOKING NORTHEAST FROM ADMIRALTY WAY

SHEET: 4 / 4

Photo Simulation By:

Tangent
SYSTEMS
424-262-4167 | tangent.systems

Photo Simulation

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MOBILITIE, LLC

Site ID: LA90XSGQ3B

POLE TYPE: NEW CONCRETE LIGHT POLE

4135 ADMIRALTY WAY
MARINA DEL REY, CA 90292



Caring for Your Coast

• • •
Gary Jones
Director

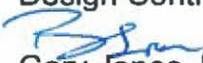
Kerry Silverstrom
Chief Deputy

John Kelly
Deputy Director

Brock Ladewig
Deputy Director

April 4, 2018

TO: Design Control Board

FROM: 
Gary Jones, Director

SUBJECT: ITEM 5A – TEMPORARY PERMITS ISSUED BY THE DEPARTMENT

Item 6A on your agenda is an update on permits that have been issued by the Department of Beaches and Harbors (Department) for temporary banners, signs, and/or canopies. Since the February report, one temporary sign permit was issued by the Department.

- Parcel 103, Pearl Apartments was approved for one temporary banner, size 3' by 6', reading "Pearl Apartments". This banner is to be displayed on the Via Marina building frontage and removed by May 29, 2018.

GJ:BL:te





April 4, 2018

Caring for Your Coast

Gary Jones
Director

Kerry Silverstrom
Chief Deputy

John Kelly
Deputy Director

Brock Ladewig
Deputy Director

TO: Design Control Board

FROM:  Gary Jones, Director

SUBJECT: **ITEM 5B - ONGOING ACTIVITIES REPORT**

BOARD ACTIONS ON ITEMS RELATING TO MARINA DEL REY

On March 6, 2018, the Board of Supervisors approved proposed amendments to County Code, Title 19 – Airports and Harbors, to expand regulations to minimize and prevent the discharge of chemical and bacterial pollutants into the Marina del Rey Harbor from vessel hull cleaning and maintenance, vessel waste disposal devices, and birds; instructed County Counsel to prepare the final ordinance and submit to the Board for consideration; and found that the adoption of the water quality ordinance qualifies as a Class 8 exemption from the California Environmental Quality Act.

On March 20, 2018, the Board of Supervisors approved the Department of Beaches and Harbors Administration Building Walkway Improvements Project, Capital Project No. 89003 with a total budget of \$455,000; approved an appropriation adjustment to transfer \$455,000 in Services and Supplies appropriation in the Marina Replacement Accumulative Capital Outlay Fund to fully fund the project; authorized the Director of Internal Services to deliver the project using a Board-approved Job Order Contract; and found that the proposed project is exempt from the California Environmental Quality Act.

REGIONAL PLANNING COMMISSION'S CALENDAR

No items relating to Marina del Rey were on the February or March 2018 Regional Planning Commission agendas.

CALIFORNIA COASTAL COMMISSION CALENDAR

No items relating to Marina del Rey were on the February or March 2018 Coastal Commission agenda.

FUTURE MAJOR DESIGN CONTROL BOARD ITEMS

There are no future major Design Control Board items at this time.

SMALL CRAFT HARBOR COMMISSION MINUTES

There are no new Small Craft Harbor Commission minutes.

REDEVELOPMENT PROJECT STATUS REPORT

The updated "Marina del Rey Redevelopment Projects Report" is attached.



Design Control Board
April 4, 2018
Item 5B
Page 2 of 2

MARINA DEL REY SIGNAGE AND GATEWAYS MASTER PLAN

Staff has submitted a Coastal Development Permit application for the gateway parks. The signage will be submitted as a separate planning application.

GJ:BL:kn

Attachments (1)

**Marina del Rey Redevelopment Projects Report
As of April 2, 2018**

Parcel No. Project Name	Representative	Redevelopment Proposed	Massing and Parking	Status
<p>9 -- Proposed Hotel on northern portion of Parcel 9U, wetland park on southern portion.</p>	<p>Sam Hardage</p>	<p>* Proposed dual building hotel, 6-story, 72'-high Marriott Residence Inn, and, 5-story, 61'-high Courtyard Marriott.</p> <p>*New promenade improvements, restaurants and amenities.</p> <p>* Wetland public park project (1.46 acres).</p>	<p>Massing -- Revised project will be resubmitted at a later date.</p> <p>Parking -- plan will be resubmitted at a later date.</p>	<p>Proprietary -- Option was approved by BOS on 10/6/15.</p> <p>Regulatory -- January 6, 2016, the BOS' approval of the hotel project was appealed to the CCC. On May 13, 2016, the CCC granted a time extension, until December 12, 2016, for the wetland park CDP. On July 11, 2016, work began on the wetland park. On April 26, 2017, the DCB approved the final design of the hotel project. Construction of the hotel began on August 11, 2017, and anticipated completion date is May 30, 2019.</p>
<p>10/14 (FF) -- Neptune Marina/ Legacy Partners</p>	<p>Tim O'Brien</p>	<p>* Demolish existing facilities and build 526 apartments.</p> <p>* 161-slip marina + 7 end-ties.</p> <p>* 28 foot-wide waterfront promenade.</p>	<p>Massing -- Four 55' tall clustered 4-story residential buildings over Parking with view corridor.</p> <p>Parking -- 1,012 project required parking spaces to be provided (103 public Parking spaces to be replaced off site)</p> <p>* Replacement of public parking both on and off site.</p>	<p>Proprietary -- December 1, 2015, the BOS agreed to extend the term of the option for up to one year. Lessee submitted Lease Assignments and Assignments of Options to extend existing lease for Parcel 10 and the lease for Parcel 14. The SCHC endorsed the assignments on September 21, 2016 and the BOS approved on October 4, 2016. Parcel 10 and 14 Lease as executed on 12/9/16. Construction commenced on December 14, 2016, and anticipated completion date is October 30, 2019.</p> <p>Regulatory -- On January 21, 2015, the final project design was approved by the Design Control Board. On December 12, 2016, work began on the project.</p>

**Marina del Rey Redevelopment Projects Report
As of April 2, 2018**

Parcel No. Project Name	Representative	Redevelopment Proposed	Massing and Parking	Status
43 -- Marina del Rey Hotel Anchorage	Jeff Pence	* Demolition of a 349-slip marina and construction of a 277-slip marina.	Massing -- Parking --163 spaces for boaters	Proprietary -- BOS approved bifurcation of Parcels 42 and 43 into separate leaseholds Lessee exercised its option to expand the lease term. Lease was executed on 12/22/15, and project is under construction. Regulatory -- Dock replacement will be phased during a 5-year period beginning in 2015. Reconstruction of the docks commenced in November 2016. Regulatory Matter: Parking Permit for reduced Parking.
44 - Pier 44/Pacific Marina Venture	Michael Pashaie/ David Taban	* Build 5 new visitor serving commercial and dry storage buildings * 82,652 s.f. visitor serving commercial space * 141 slips + 5 end ties and 57 dry storage spaces	Massing -- Four new visitor-serving commercial buildings, maximum 36' tall and one dry stack storage building, 65' tall. 771.5 lineal feet view corridor proposed. Parking -- 381 at grade Parking spaces will be provided with shared Parking agreement (402 Parking spaces are required).	Proprietary -- The lessee initialed a revised Term Sheet on July 9, 2015. On January 13, 2016, SCHC endorsed DBH's recommendation to grant lessee an option to extend the lease term for 39 years. The Grant of Option was approved by the BOS in October 2016. Construction began on September 11, 2017. Regulatory -- February 9, 2016, the BOS approved the project, which was appealed to the CCC. CCC denied the appeal on June 9, 2016. Regulatory Matter: Shared Parking Agreement. No Variance proposed

**Marina del Rey Redevelopment Projects Report
As of April 2, 2018**

Parcel No. Project Name	Representative	Redevelopment Proposed	Massing and Parking	Status
53 -- The Boatyard	Greg Schem	<ul style="list-style-type: none"> * New 921 s.f. ADA Restroom * New 3,916 s.f. carport with 14 garage spaces and boater storage. * Leasehold refurbishment, including new landscaping, hardscape, and waterside walkway. 	<p>Massing -- One 38' tall commercial warehouse building and 15' tall office buildings. New carport storage and office buildings will be 15' tall.</p> <p>Parking -- Parking proposed is 147 spaces. The code requires 134 spaces for this use.</p>	<p>Proprietary -- On 11/6/ 2012 the Lessee initialed a term sheet for an extension of the leasehold. On January 13, 2016, SCHC endorsed DBH's recommendation to extend the lease for 39 years. The grant of option was approved by the BOS at its March 15, 2016 meeting. Option was exercised and lease executed on 4/29/16. Project is under construction and anticipated completion is expected in July 2018.</p> <p>Regulatory -- The DCB approved the final design of the project on December 16, 2015.</p> <p>Regulatory Matter: Variance for reduced setbacks and Architectural Guidelines requiring that structures beat least 15 ft. from bulkhead.</p>
55/56/W -- Fisherman's Village/Gold Coast	Michael Pashaie/ David Taban	<ul style="list-style-type: none"> * 132-room hotel * 65,700 square foot restaurant/retail space * 30-slip new marina * 28 foot-wide waterfront promenade 	<p>Massing -- Nine mixed use hotel/visitor-serving commercial/retail structures (8 1- and 2-story and 1 60'-tall hotel over ground floor retail/ restaurant), parking structure with view corridor.</p> <p>Parking -- On-site Parking includes all project required Parking, Parking for Parcel 61 lessee (Whiskey Reds).</p>	<p>Proprietary The lessee provided the SCHC with project updates at the March and May 2015 meetings.</p> <p>Regulatory -- A plan was last submitted to the Department of Regional Planning in July of 2008. No recent activity has occurred.</p> <p>Regulatory Matter: Shared Parking Agreement. Variance for reduced setbacks (side and waterfront).</p>

**Marina del Rey Redevelopment Projects Report
As of April 2, 2018**

Parcel No. Project Name	Representative	Redevelopment Proposed	Massing and Parking	Status
113 -- Mariner's Village	Michael Sondermann	<ul style="list-style-type: none"> * Complete leasehold refurbishment of 981 apartments * Retail space increase from 2,070 s.f. to 9,000 s.f. * New 92-slip anchorage will be constructed * New 28 foot-wide pedestrian promenade and public amenities 		<p>Proprietary -- Item opened on 9/23/2013</p> <p>Regulatory -- An EIR scoping meeting was held on 09/16/14 in Chace Park.</p>
15 -- AMLI Residential	Jason Armison	<ul style="list-style-type: none"> * Demolish existing facilities and build 585 apartments * New 8,000 s.f. commercial space * New 241 boat slip marina * New 1,271-Parking space garage 	<p>Massing -- Six buildings up to 5 stories and 70' high</p> <p>Parking -- All Parking to be provided on site within new 1,271-space Parking garage</p>	<p>Proprietary -- The lease was executed on 1/30/14. Construction commenced on July 1, 2014, and anticipated completion date is July 2018.</p> <p>Regulatory -- June 30, 2014, demolition of the site commenced. October 2016 --Construction of project is underway.</p>
28 -- Wayfarer	Tim O'Brien	<ul style="list-style-type: none"> * Complete leasehold refurbishment of 379 apartments * New bicycle depot for public use * Improvements to existing promenade and dock gates and public amenities * Replacement of existing docks within 6 months of completed of landside renovation 	<p>Massing -- Seven buildings up to 3 stories high</p> <p>Parking -- Existing subterranean Parking structure contains 947 Parking spaces.</p>	<p>Proprietary -- The MND for the project was adopted by the BOS at the March 24, 2015 meeting. Board also approved a future assignment to Legacy. Option was exercised and lease executed on 9/25/15. Project is under construction and anticipated completion date is June 2018. In July 2017, the CCC granted permission to begin the dock reconstruction project.</p> <p>Regulatory -- On July 15, 2015, the DCB approved the final design of the project. Construction commenced in December 2015.</p>



Caring for Your Coast

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Gary Jones
Director

Kerry Silverstrom
Chief Deputy

John Kelly
Deputy Director

Brock Ladewig
Deputy Director

April 4, 2018

TO: Design Control Board
FROM:  Gary Jones, Director
SUBJECT: **ITEM 5C – MARINA DEL REY SPECIAL EVENTS**

THE FREE RIDE
Daily service
12:00 p.m. – 9:00 p.m.

Catch free on-demand transportation aboard a five-passenger electric shuttle. The service provides transportation to attractions within Marina del Rey, including Fisherman's Village, Burton Chace Park, Waterside Shopping Center, and many restaurants. Select shuttles also travel to the Venice Pier and to Abbot Kinney Blvd. in Venice.

Wave down a Free Ride car and hop in, or text your pick-up location and passenger count to (323) 435-5000. Please allow 10 – 15 minutes for pick-up. Kids must be big enough to use a regular seatbelt; child-safety seats are not provided. Dogs are welcome.

For more information: Call the Marina del Rey Visitors Center at (424) 526-7900

BURTON CHACE PARK WALKING CLUB
Burton Chace Park ♦ Lobby ♦ 13650 Mindanao Way ♦ Marina del Rey
Tuesdays & Thursdays
10:30 a.m. – 11:30 a.m.

The Los Angeles County Department of Beaches and Harbors' (Department) is sponsoring a FREE one-hour walking club. Get your exercise while taking in the beautiful view of the Marina del Rey harbor. Please RSVP by calling (424) 526-7910.

For more information: Call (424) 526-7910



BEACH SHUTTLE

Fridays and Saturdays from 10:00 a.m. – 10:00 p.m.
Sundays and Holidays from 10:00 a.m. – 8:00 p.m.

Catch a free ride on the Beach Shuttle to and from Playa Vista, Marina del Rey and the Venice Beach Pier, and enjoy the surf, sand and surroundings of Marina del Rey in a hassle-free and relaxing way. Now with extended service, the Beach Shuttle will operate year round on weekends and holidays.

For more information: Call the Marina del Rey Visitors Center (424) 526-7900

MARINA DEL REY FARMERS' MARKET

Parking Lot #11 ♦ 14101 Panay Way ♦ Marina del Rey
Saturdays
9:00 a.m. – 2:00 p.m.

The Department, in collaboration with Southland Farmers' Markets Association, is offering the Marina del Rey Farmers' Market on Saturdays. The Marina del Rey Farmers' Market offers fresh, locally-grown organic and conventionally grown fruits and veggies. Also available are prepared and packaged foods, hand-crafted products and much more! Paid parking is available for 25 cents for every 10 minutes.

For more information: Call the Marina del Rey Visitors Center at (424) 526-7900

FISHERMAN'S VILLAGE WEEKEND CONCERT SERIES

13755 Fiji Way ♦ Marina del Rey
Sponsored by Pacific Ocean Management, LLC
Saturdays & Sundays
2:00 p.m. – 5:00 p.m.

Saturday, April 14th
Upstream (Reggae/Ska)

Sunday, April 15th
Floyd & The Fly Boys (Blue/R&B/Dance)

Saturday, April 21st
Blue Breeze (R&B)

Sunday, April 22nd
2 Azz1 (Jazz/Funk)

Saturday, April 28th
JB & The BC Riders (Country/Rock-a-billy)

Sunday, April 29th
Susie Hansen Latin Band (Salsa)

For more information: Call Pacific Ocean Management at (310) 306-0400

"BEACH EATS" GOURMET FOOD TRUCKS

4101 Admiralty Way ♦ Marina del Rey
Mid-May – September 27, 2018
5:00 p.m. – 9:00 p.m.

The Department is hosting a gourmet food truck event in Marina del Rey that offers a variety of delectable savory foods and desserts. Plus, eventgoers can listen to live music and picnic on the beach. The "Beach Eats" gourmet food truck event will be held every Thursday from 5 p.m. to 9 p.m. The weekly assortment of trucks will vary with menu options such as gourmet burgers, hot dogs, tacos, lobster rolls, ice cream, cupcakes, and more. Paid parking is available at the beach parking lot #10 for 25 cents for every 10 minutes.

For more information: Call the Marina del Rey Visitors Center at (424) 526-7900 or visit beaches.lacounty.gov

SUNSET SERIES SAILBOAT RACES 2018

Marina del Rey
Wednesdays, April 18 - September 5
5:30 p.m. – 8:00 p.m.

Spectators can enjoy these races from the comfort of one of the water-view restaurants on Wednesday evenings between 5:30 p.m. (sailboats leaving the harbor) and 8:00 p.m. (race finishes at California Yacht Club).

For more information: Call (310) 823-4567

LA'S MARINAFEST BOAT SHOW

Burton Chace Park ♦ 13650 Mindanao Way ♦ Marina del Rey
Saturday, May 19th from 10:00 a.m. – 7:00 p.m.
Sunday, May 20th from 10:00 a.m. – 5:00 p.m.

Come celebrate Marina del Rey with an in-water boat show, historic harbor tours, tall ships, land vendors and exhibitors, music, and food trucks.

Event parking is available for \$8 in County Lots #77 and #4 located at 13560 and 13500 Mindanao Way respectively.

For more information: Visit www.marinafest.org or call (310) 877-5500

DISCOVER MARINA DEL REY

Burton Chace Park ♦ 13650 Mindanao Way ♦ Marina del Rey, CA 90292
Sunday, May 20, 2018
10:00 a.m. – 5:00 p.m.

Discover Marina del Rey is a free community and family-oriented event sponsored by the Department. The event features booths from various organizations on health, safety and the environment, plus water events, water taxi service, inflatables, games, music, arts & crafts, and children's marionette shows. Food and beverages are also available for purchase from one of several gourmet food trucks.

Also, enjoy the free JAM Session, an interactive workshop that centers on movement and music, starting at 3:30 p.m. Discover the joy of creating rhythmic beats and sounds as you join Christopher Ramirez in this group drum circle.

Event parking is available for \$8 in County Lots #77 and #4 located at 13560 and 13500 Mindanao Way respectively.

GJ:CB:da