

LEGEND

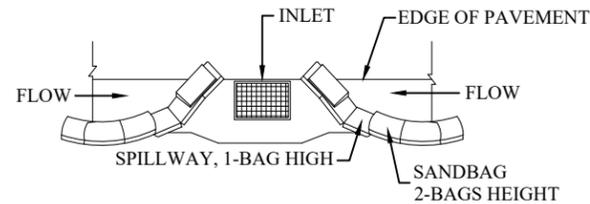
SYMBOL	DESCRIPTION
	PROPOSED 2' X 3' VAULT
	NEW POLE
	NEW STREETLIGHT
	TRENCH AND FIBER CONDUIT (PVT)
	EXISTING EXISTING STREETLIGHT
	EXISTING VAULT / HANDHOLE
	EXISTING PEDESTAL
	EXISTING TRANSFORMER
	STATION POINTS (100' INCREMENTS)
	EXISTING CURB RAMP
	EXISTING CURB & GUTTER
	EXISTING ASPHALT CURB
	EXISTING EDGE OF PAVEMENT
	EXISTING BERM
	EXISTING RIGHT OF WAY
	SUBDIVISION BOUNDARY
	EXISTING CENTER LINE
	EXISTING CENTER LINE

EROSION AND SEDIMENT CONTROL NOTES:

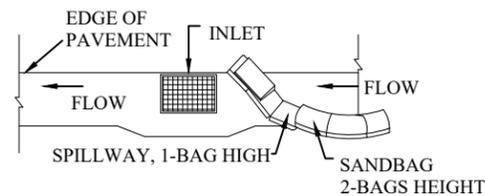
TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

- ALL REQUIREMENTS OF THE CITY OF RANCHO PALOS VERDES "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED PUBLIC IMPROVEMENTS CONSISTENT WITH THE EROSION CONTROL PLAN AND/OR WATER POLLUTION CONTROL PLAN (WPCP), IF APPLICABLE.
- FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED IMPROVEMENT PLAN SHALL BE INCORPORATED HEREOF. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

STORMDRAIN INLET PROTECTION



TYPICAL PROTECTION FOR INLET WITH OPPOSING FLOW DIRECTIONS



TYPICAL PROTECTION FOR INLET WITH SINGLE FLOW DIRECTION

NOTES:

- INTENDED FOR SHORT - TERM USE.
- USE TO INHIBIT NON - STORM WATER FLOW.
- ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
- BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
- NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

NOTES:

- CONTRACTOR TO POTHOLE ALL UTILITY CROSSINGS.
- CONTRACTOR TO PLACE SANDBAGS AROUND ANY/ALL STORM DRAIN INLETS TO PREVENT CONTAMINATED WATER.
- SPOILS PILE WILL BE COVERED AND CONTAINED AND STREET WILL BE SWEEPED AND CLEANED AS NEEDED.
- CONTRACTOR TO REPAIR DAMAGED PUBLIC IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER.
- CURB & GUTTER TO BE PROTECTED IN PLACE. SIDEWALK TO BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL RESTORE THE ROADWAY BACK TO ITS ORIGINAL CONDITION SATISFACTORY TO THE CITY ENGINEER INCLUDING, BUT NOT LIMITED TO PAVING, STRIPING, BIKE LANES, PAVEMENT LEGENDS, SIGNS, AND TRAFFIC LOOP DETECTORS.
- SIDEWALK SHALL BE RESTORED/REPLACED PER CITY OF RANCHOS PALOS VERDES STANDARD DRAWINGS.
- PEDESTRIAN RAMP WILL NOT BE DISTURBED.

ROW GROUND CONSTRUCTION NOTES:

- GROUND CONSTRUCTION TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, FEDERAL, GO95 AND GO128 STANDARDS AND REGULATIONS.
- CALL USA 48 HOURS PRIOR TO EXCAVATING AT (800) 227-2600 OR 811.
- ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
- ALL EQUIPMENT TO BE BONDED.
- METERING CABINET REQUIRES 36" CLEARANCE AT DOOR OPENING.
- CAULK CABINET BASE AT PAD.

NORMAL LOCATION OF UNDERGROUND UTILITIES NOTES:

- LOCATION AND DEPTH OF EXISTING AND PROPOSED UTILITIES MUST BE PROVIDED BY THE SUBDIVIDER AND SHOWN ON ANY PLANS SUBMITTED TO THE DEPT. OF PUBLIC WORKS FOR APPROVAL.
- CHANGES MAY BE PERMITTED BY THE DEPT. OF PUBLIC WORKS IN CASES OF CONFLICTING FACILITIES.
- CONFLICTS BETWEEN UTILITY COMPANIES FACILITIES, EXISTING AND PROPOSED, MUST BE MUTUALLY RESOLVED BY THE UTILITY COMPANIES.
- FOR COMMERCIAL SIDEWALKS, THE FIRE HYDRANT SHALL BE PLACED WITHIN THE SIDEWALK 1'-6" BEHIND FACE OF CURB.
- MAXIMUM 2" DIAMETER GAS MAINS MAY BE PLACED IN JOINT UTILITIES TRENCH SUBJECT TO APPROVAL OF CITY ENGINEER (IN TRACTS).

CALIFORNIA STATE CODE COMPLIANCE:

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

- CALIFORNIA ADMINISTRATIVE CODE (INCLUDING TITLES 24 & 25) 2010
- 2010 CALIFORNIA BUILDING CODES WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 CALIFORNIA MECHANICAL CODE
- ANSI/EIA-222-F LIFE SAFETY CODE NFPA-101
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES

ACCESSIBILITY REQUIREMENTS:

THIS WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.

FCC NOTE:

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ASG25m1

PHASE II
CROWN CASTLE PROJECT NO.
242727

CLIENT:
CROWN CASTLE
NG WEST LLC
300 SPECTRUM CENTER DR, STE. 1200
IRVINE, CA 92618
www.crownncastle.com

PREPARED BY:

Coastal Communications
Telecommunications Engineering
5841 EDISON PLACE, SUITE 200
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

PROPRIETARY INFORMATION

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CALL AT
LEAST TWO
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UNDERGROUND SERVICE ALERT
TICKET # _____

RELOCATE SITE	DATE
ADD PED 009	11/20/15
USE CISH-51 PEDESTAL	07/05/16
	11/09/16
REVISION / ISSUE	DATE

SITE NAME & ADDRESS:

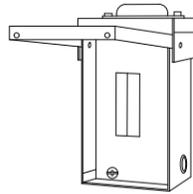
ASG25m1
27659 LONGHILL DR
RANCHO PALOS VERDES, CA

DETAILS & NOTES

DRAWN BY: RG	DRAFT DATE: 11/9/16	APPROVED BY: TO
SHEET NO. D-1		

SQUARE D BY SCHNEIDER ELECTRIC

LOAD CENTER, 70A
(MODEL #QO24L70RB)



TECHNICAL CHARACTERISTICS

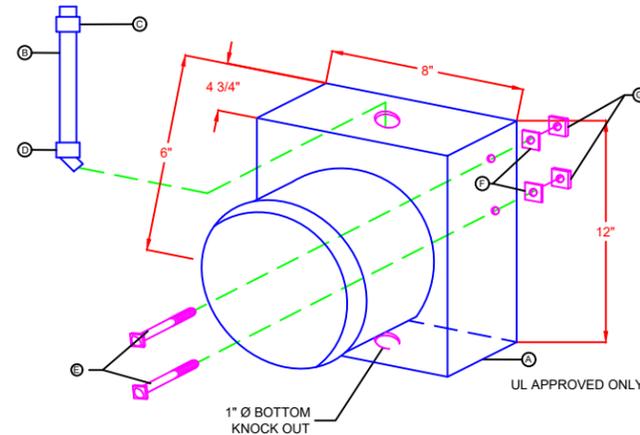
AMPERE RATING	70A
MAXIMUM SINGLE POLE CIRCUITS	4
WIDTH	4.88 INCHES
APPLICATION	DESIGNED TO MEET RESIDENTIAL, COMMERCIAL AND INDUSTRIAL REQUIREMENTS TO PROTECT ELECTRICAL SYSTEMS, EQUIPMENT AND PEOPLE.
SPACES	2
WIRE SIZE	#12 TO 3 AWG(AL) - #14 TO 4 AWG(CU)
MAXIMUM TANDEM CIRCUIT BREAKERS	2
VOLTAGE RATING	120/240VAC
WIRING CONFIGURATION	3-WIRE
PHASE	1-PHASE
DEPTH	4.00 INCHES
HEIGHT	9.38 INCHES
BUS MATERIAL	TIN PLATED ALUMINUM
COVER TYPE	SURFACE
CATALOG REFERENCE NUMBER	1100CT9901
ENCLOSURE TYPE	OUTDOOR/RAINPROOF
ENCLOSURE RATING	NEMA 3R
GROUNDING BAR	ORDER SEPARATELY
APPROVALS	UL LISTED
SHORT CIRCUIT CURRENT RATING	10KA
MAIN TYPE	FIXED - FACTORY INSTALLED MAIN LUGS

SHIPPING AND ORDERING

CATEGORY	00101 - LOAD CENTERS, 1 PHASE, NEMA1 & 3R, 2 - 8 CIRCUIT, TYPE QO
DISCOUNT SCHEDULE	3A
ARTICLE NUMBER	785901785132
PACKAGE QUANTITY	1
WEIGHT	5 LBS.
AVAILABILITY CODE	S
RETURNABILITY	Y

4 SCALE
N.T.S.

POWER METER



- NOTES:
1. TOP KNOCK OUT WITH LIQUID FLEX 45° AND STRAIGHT CONNECTORS AVAILABLE TO POWER UTILITY CREW CONNECTION.
 2. BOTTOM KNOCK OUT FOR CONNECTING TO CUSTOMER FUSE DISCONNECT BOX.
 3. HEIGHT MAY BE DETERMINED BY POWER UTILITY.

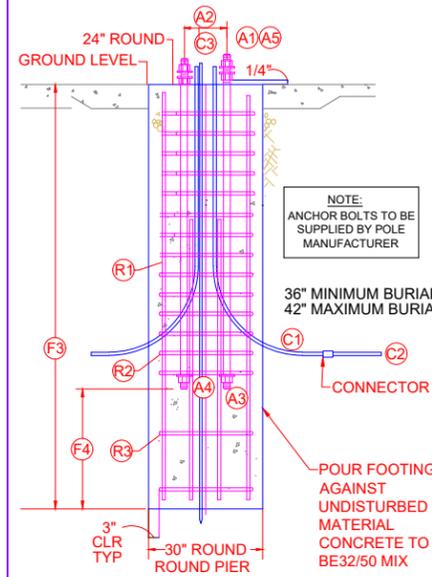
PARTS LIST				
CALLOUT	QTY	DESCRIPTION	CALLOUT	DESC.
A	1	METER CABINET WTR PART # 2 POLE 120/140 SINGLE PHASE		
B	1	4" X 1" Ø LIQUID TIGHT METALLIC FLEX CONDUIT		
C	1	1" Ø LIQUID TIGHT CONNECTOR STR POINT		
D	1	1" Ø LIQUID TIGHT CONNECTOR-45°		
E	2	5/16" X 1" BOLT - STAINLESS STEEL		
F	2	5/16" LOCK WASHER - STAINLESS STEEL		
G	2	5/16" NUT - STAINLESS STEEL		

5 SCALE
N.T.S.

GROUND ROD:

- G1 GROUND ROD SHALL BE MINIMUM 0.625" DIA. x 9' LONG. COPPER CLAD.
G2 MINIMUM 3" EXPOSURE AT TOP OF FOUNDATION WITHIN BOLT CIRCLE.

NOT TO SCALE



NEW POLE FOUNDATION

ANCHOR BOLTS:

- A1 ANCHOR BOLTS SHALL BE 4-1" DIAMETER, AS GIVEN IN SPECIFICATIONS ASTM A449.
A2 BOLT CIRCLE DIAMETER TO MATCH POLE BASEPLATE.
A3 ANCHOR BOLTS SHALL HAVE HEADS, OR NUTS WITH THE THREADS STAKED AT TWO PLACES BELOW THE NUT, EMBEDDED IN FOUNDATION.
A4 ANCHOR BOLTS SHALL BE EMBEDDED 33" MINIMUM, BELOW STREET GRADE (63" EMBEDMENT IN CONCRETE).
A5 BOLT PROJECTION AS RECOMMENDED BY THE MANUFACTURER.

CONDUIT:

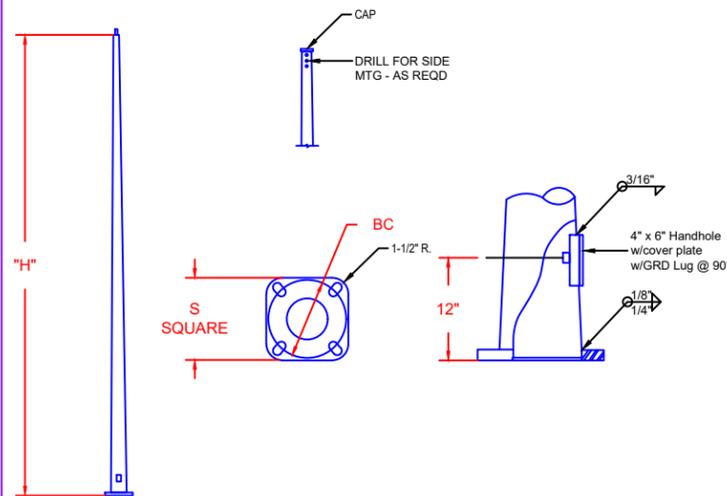
- C1 CONDUIT SHALL BE RIGID STEEL, GALVANIZED, INSIDE THE FOUNDATION, WITH 6" MINIMUM STUB-OUT.
C2 SERVICE AND FEED CONDUITS SHALL BE RGS OR SCH 80 PVC, AS REQUIRED.
C3 STUB UP TO WITHIN 4" FROM HAND HOLE.

REINFORCEMENT:

- R1 VERTICAL REBAR SHALL BE (7) #6 EQUALLY SPACED INSIDE OF HOOPS.
R2 HOOPS SHALL BE #4 X 18" I.D., SPACED 4" O/C FROM TOP OF FOUNDATION TO END OF ANCHOR BOLTS.
R3 HOOPS SHALL BE #4 X 18" I.D., SPACED 12" MIN. FROM THE ANCHOR BOLTS TO BOTTOM OF FOUNDATION.
R4 ALL REBAR SHALL HAVE 3" MINIMUM COVERING.
F3 5' DEPTH
F4 2' DEPTH

6 SCALE
N.T.S.

CST TAPERED STEEL POLE (CST SERIES)



Dimensions				Maximum Loading			
Bottom Dia.	Top Dia.	5" Base Size	Bolt Circle	Anchor Bolts (4)	Max. Wt.	100 MPH Proj. Area	80 MPH Proj. Area
5.0	3.0	10-1/2"	11"	3/4 x 24	300	8	12
6.4	3.5	10-1/2"	11"	3/4 x 36	450	8	12
6.4	3.5	10-1/2"	11"	3/4 x 36	450	8	12
7.1	3.8	10-1/2"	11"	3/4 x 36	450	8	12
7.1	3.7	10-1/2"	11"	1 x 36	450	6	12
8.1	3.8	11-1/2"	11"	1 x 36	450	6	8
8.5	3.8	11-1/2"	11-1/2"	1 x 36	450	4	8
9.1	3.3	13"	13"	1 x 36	450	4	8

7 SCALE
N.T.S.

ASG25m1

PHASE II
CROWN CASTLE PROJECT NO.
242727

CLIENT:



PREPARED BY:



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DIGALERT



RELOCATE SITE	DATE
ADD PED 009	07/05/16
USE CISH-51 PEDESTAL	11/09/16
REVISION / ISSUE	DATE

SITE NAME & ADDRESS:

ASG25m1
27659 LONGHILL DR
RANCHO PALOS VERDES, CA

DETAILS & NOTES

DRAWN BY:	DRAFT DATE:	APPROVED BY:
RG	11/9/16	TO

SHEET NO.
D-3

CUUX045X06F0000

Connector Description

The antenna has 6 connectors located at the bottom, each marked with a colored ring.

Low Band (RT)	696-960 MHz	Red Rings	●	(2x) 7/16-DIN Female
High Band #1 (Y1)	1695-2700 MHz	Yellow Rings	●	(2x) 7/16-DIN Female
High Band #2 (Y2)	1695-2700 MHz	Yellow Rings	●	(2x) 7/16-DIN Female

Electrical Characteristics

Frequency Bands (MHz)	Low Band		High Bands #1 and #2			
	696-960 MHz	806-960	1695-1880	1850-1990	1920-2200	2300-2700
Polazation	±45°		(2x) ±45°			
Horizontal Beamwidth	47°	37°	49°	45°	42°	38°
Vertical Beamwidth	40.6°	30.8°	24.8°	24°	23.0°	21.7°
Gain	12.2 dBi	13.9 dBi	12.9 dBi	13.8 dBi	14.1 dBi	14.4 dBi
Electrical Down tilt	0°		0°			
Impedance	50Ω		50Ω			
VSWR	≤ 1.5:1		≤ 1.5:1			
Front-to-Back Ratio	> 24 dB		> 25 dB			
Isolation Between Bands	> 30 dB		> 30 dB			
Isolation Between Ports	≥ 25 dB		≥ 25 dB			
IM3 (2x20W carrier)	< -150 dBc		< -150 dBc			
Input Power	(2x) 500 W		(4x) 300 W			
Diplexed	No					
Lightning Protection	Direct Ground					
Operating Temperature	-40° to +60° C (-40° to +140° F)					

Mechanical Characteristics

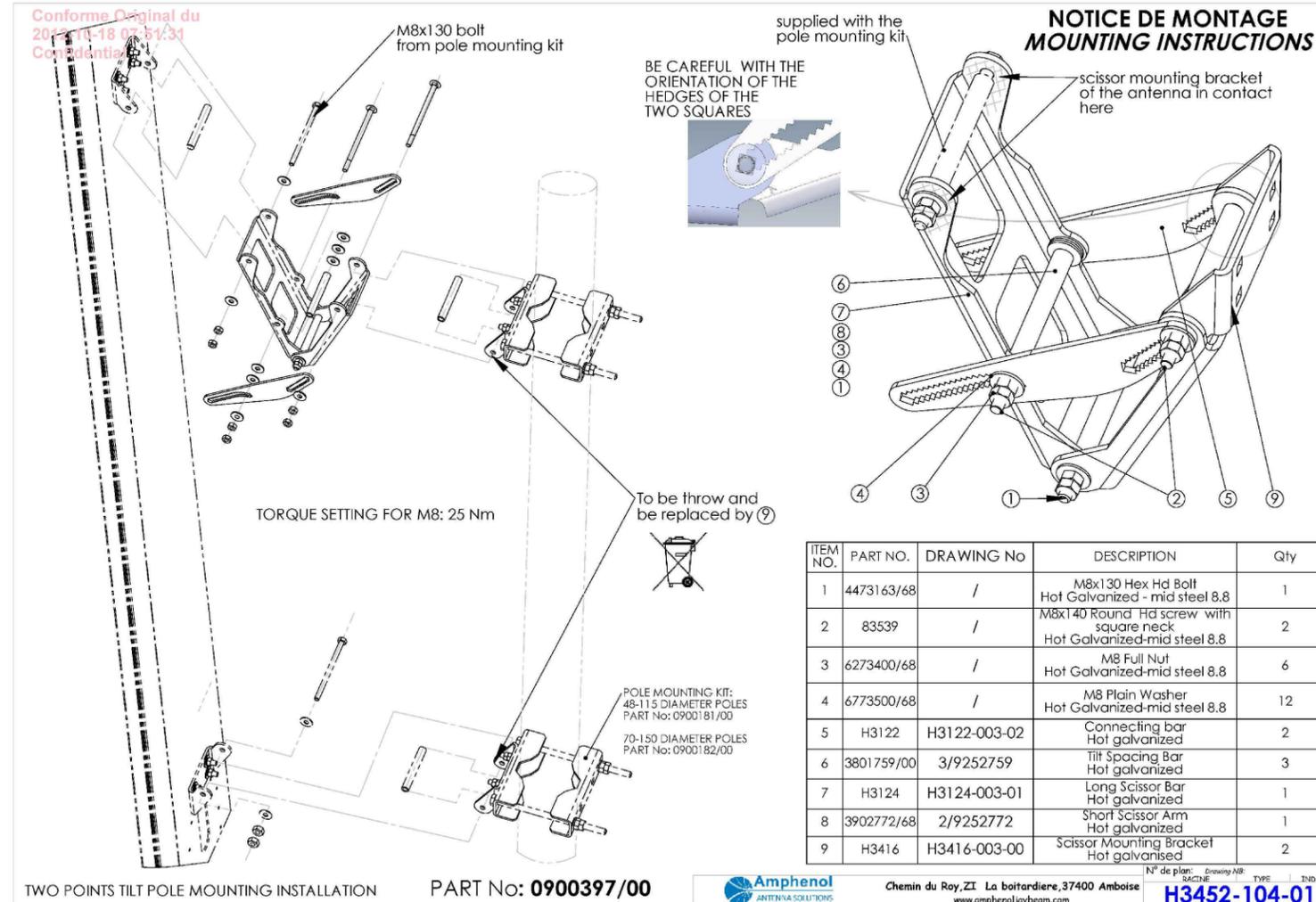
Dimensions (Height x Width x Depth)	611 x 412 x 185 mm		24.1 x 16.2 x 7.3 in	
Weight without Mounting Brackets	7.1 kg		15.7 lbs	
Survival Wind Speed	241 km/hr		150 mph	
Wind Area	Front	0.25 m²	2.7 ft²	
	Side	0.11 m²	1.2 ft²	
Wind Loads (160 km/hr or 100 mph)	Front	305 N	68 lbf	
	Side	135 N	30 lbf	



8

SCALE
N.T.S.

MOUNTING BRACKET #0900397/00



9

SCALE
N.T.S.

ASG25m1

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242727

CLIENT:
CROWN CASTLE
NG WEST LLC
300 SPECTRUM CENTER DR, STE. 1200
IRVINE, CA 92618
www.crowncastle.com

PREPARED BY:

Coastal Communications
Telecommunications Engineering
5841 EDISON PLACE, SUITE 200
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

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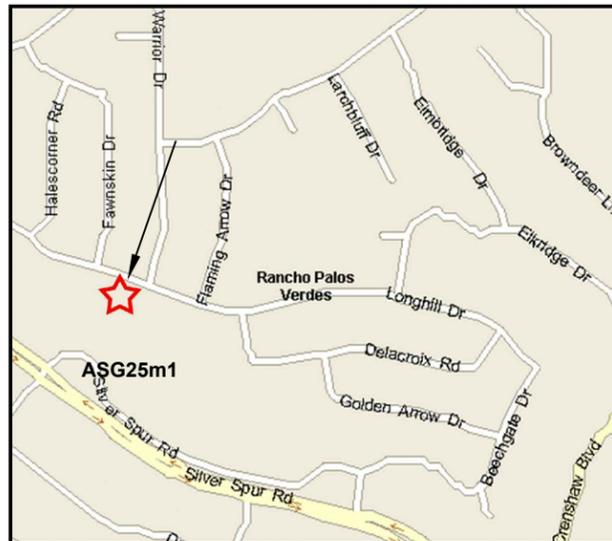
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RANCHO PALOS VERDES, CA

DETAILS & NOTES

DRAWN BY: RG DRAFT DATE: 11/9/16 APPROVED BY: TO
SHEET NO. D-4



Existing Site



Vicinity Map
LOOKING SOUTHWEST



Proposed Site ASG25m1

ASG25m1

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RANCHO PALOS VERDES, CA

PHOTOSIM

DRAWN BY: RG	DRAFT DATE: 11/9/16	APPROVED BY: TO
SHEET NO. S-2		

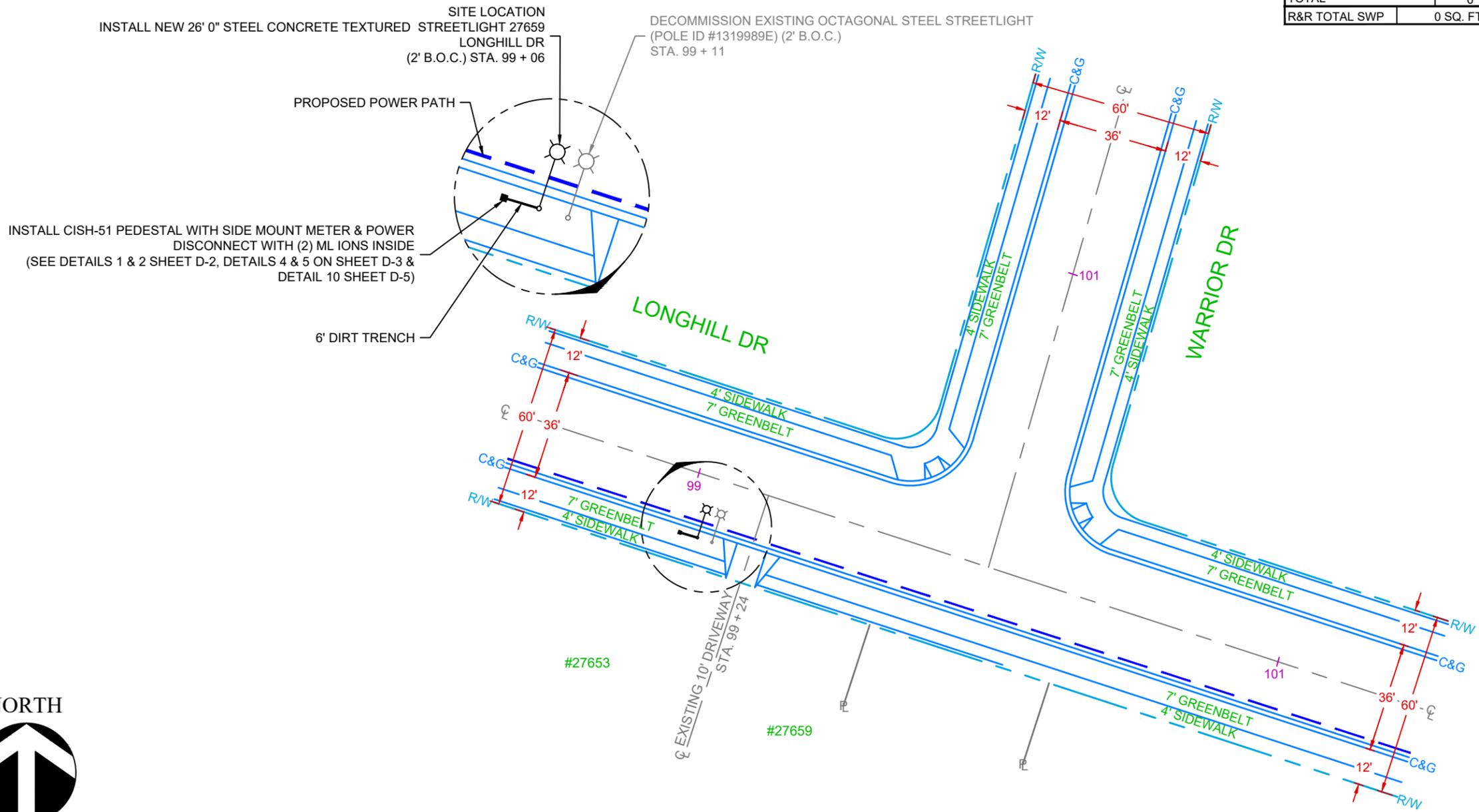
NEW CONSTRUCTION

- DECOMMISSION EXISTING 30' 8" HIGH STREETLIGHT (POLE ID #1319989E) AND REPLACE WITH A NEW 26' 0" HIGH STEEL CONCRETE TEXTURED STREETLIGHT WITH MAST ARM AND LUMINAIRE.
- INSTALL (2) 24.1" ANTENNA #CUUX045X06F0000 WITH MOUNTING BRACKET #0900397/00.
- INSTAL CISH-51 PEDESTAL WITH SIDE MOUNT METER & POWER DISCONNECT BOX WITH (2) ML IONS INSIDE.
- INSTALL VGR.
- EQUIPMENT AND ANTENNAS TO BE PAINTED TO MATCH POLE.

100AMP PANEL
120/240V 1PHASE
1.1KW 0TON

NODE COORDINATE	
LATITUDE:	33.77336
LONGITUDE:	-118.37032

FOOTAGE TOTALS	
ASPHALT TRENCH	0
PUNCH THRU	0
DIRT TRENCH	6'
BORE	0
TOTAL	6'
R&R TOTAL SWP	0 SQ. FT.



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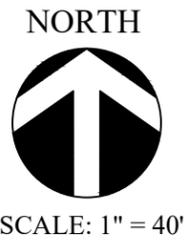
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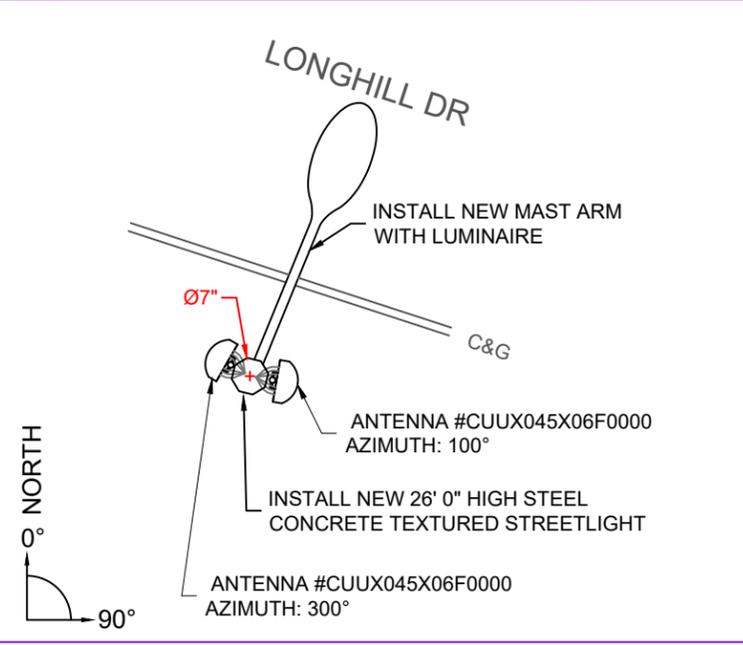
SITE NAME & ADDRESS:
ASG25m1
27659 LONGHILL DR
RANCHO PALOS VERDES, CA

SITE PLAN

DRAWN BY: RG	DRAFT DATE: 11/9/16	APPROVED BY: TO
SHEET NO. P-1		



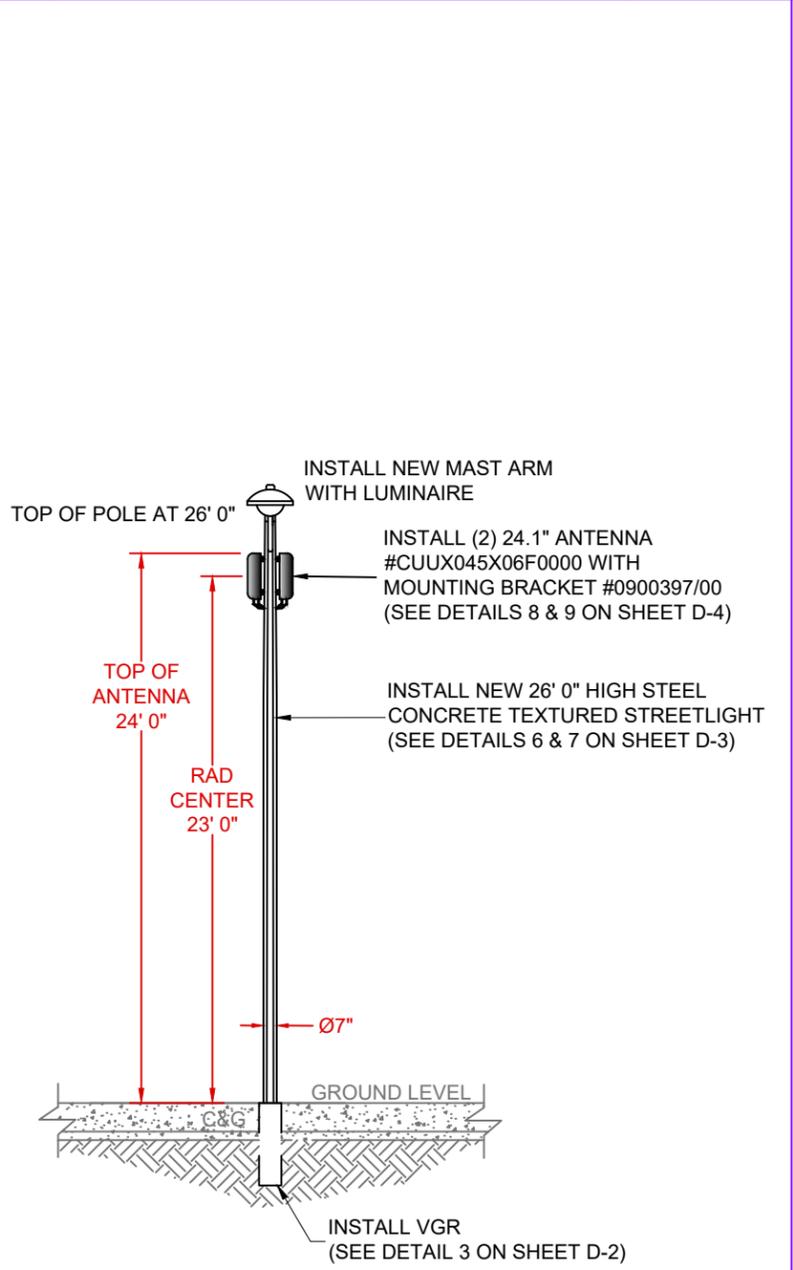
A ANTENNA DETAILS SCALE: 1:5



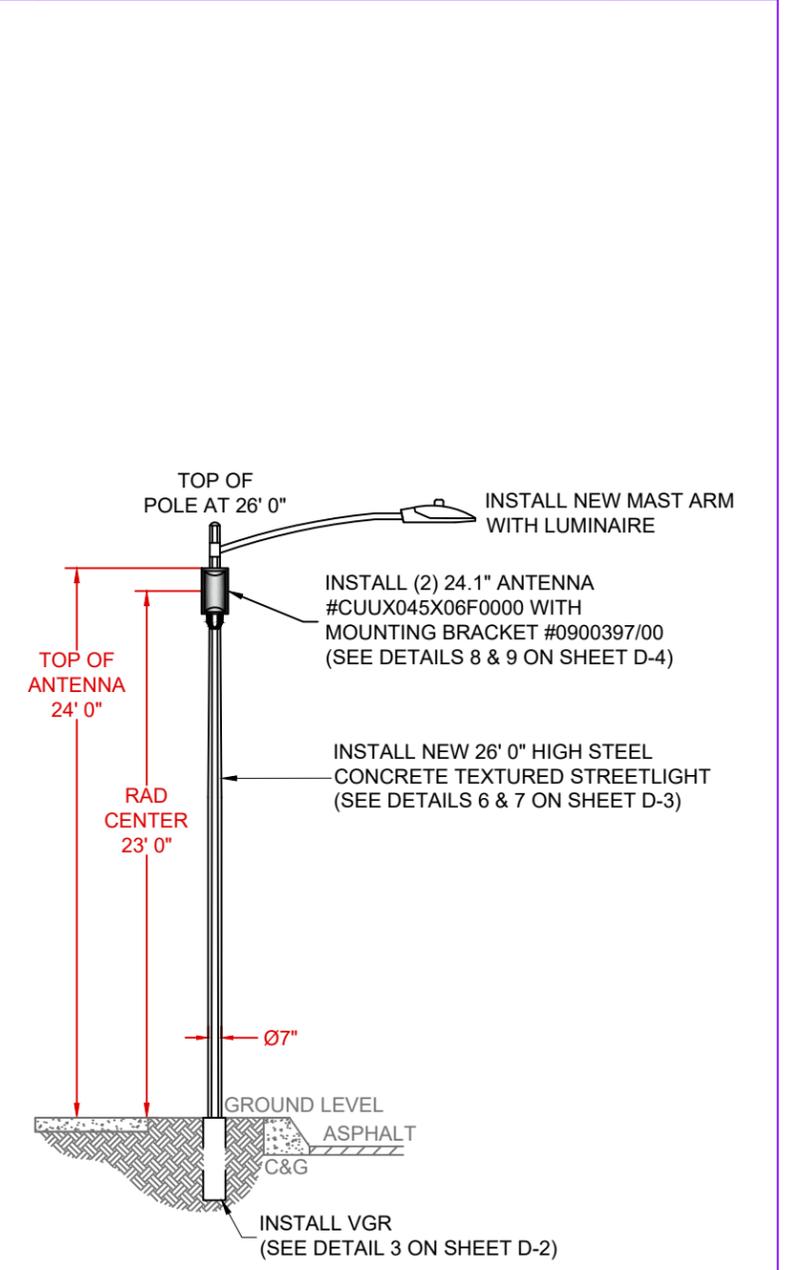
STREETLIGHT #1319989E
 TOP OF EXISTING POLE: 30' 8"
 TOP OF NEW POLE: 26' 0"
 TOP OF ANTENNA: 24' 0"
 RAD CENTER: 23' 0"
 AZIMUTH: 180°

EQUIPMENT AND ANTENNAS TO BE PAINTED TO MATCH POLE.

B 12 O'CLOCK VIEW SCALE: 1:8



B 12 O'CLOCK VIEW SCALE: 1:8



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RELOCATE SITE	11/20/15
ADD PED 009	07/05/16
USE CISH-51 PEDESTAL	11/09/16
REVISION / ISSUE	DATE

SITE NAME & ADDRESS:
ASG25m1
 27659 LONGHILL DR
 RANCHO PALOS VERDES, CA

POLE PROFILE

DRAWN BY: RG DRAFT DATE: 11/9/16 APPROVED BY: TO
 SHEET NO. P-1