ASG38

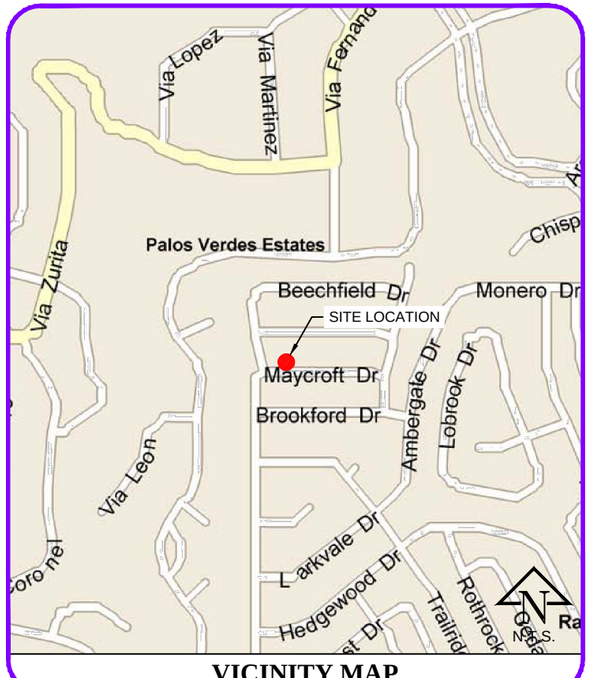
GOLDEN MEADOW DR AND MAYCROFT DR
RANCHO PALOS VERDES, CA

SHEET NO.	DESCRIPTION
T-1	TITLE SHEET
D-1	DETAILS & NOTES
D-2	DETAILS & NOTES
D-3	DETAILS & NOTES
S-1	SITE PHOTOS
S-2	PHOTO SIM
S-3	PHOTO SIM
P-1	POLE PROFILE & SITE PLAN

SHEET INDEX

GENERAL CONTRACTOR NOTES:

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR RESPONSIBLE FOR SAME.



VICINITY MAP

PROJECT DESCRIPTION:

- DECOMMISSION EXISTING 31' 0" HIGH OCTAGONAL STEEL (AERIAL POWER) STREETLIGHT (POLE ID #1458878E) AND REPLACE WITH A NEW 26' 0" HIGH MARBELITE OCTAGONAL STEEL STREETLIGHT WITH MAST ARM AND LUMINAIRE.
- INSTALL (2) 50" CCI #HPA-45R-BUU-H4 ANTENNAS WITH DOWNTILT BRACKETS.
- INSTALL (2) ML IONS.
- INSTALL 2" POWER RISER.
- INSTALL POWER METER WITH DISCONNECT BOX.
- INSTALL VGR.
- EQUIPMENT AND ANTENNAS TO BE PAINTED TO MATCH POLE.

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

PROJECT SUMMARY

PROJECT MANAGER:
CROWN CASTLE NG WEST LLC
300 SPECTRUM CENTER DR STE. 1200
IRVINE, CA 92618
HEIDI PAYNE
(949) 300-9493
HEIDI.PAYNE@CROWNCASTLE.COM

FIBER MANAGER:
CROWN CASTLE NG WEST LLC
300 SPECTRUM CENTER DR STE. 1200
IRVINE, CA 92618
ALFREDO ARZUBIAGA
(818) 939-5579
ALFREDO.ARZUBIAGA@CROWNCASTLE.COM

CONSTRUCTION MANAGER:
CROWN CASTLE NG WEST LLC
300 SPECTRUM CENTER DR STE. 1200
IRVINE, CA 92618
MIKE GILDERSLEEVE
(808) 286-8323
MIKE.GILDERSLEEVE@CROWNCASTLE.COM

NODE ENGINEER:
COASTAL COMMUNICATIONS
5841 EDISON PLACE, SUITE 110
CARLSBAD, CA 92008
TODD THREW
(760) 929-0910 EXT. 101
TODD@COASTALCOMMINC.COM

PROJECT TEAM

ASG38

PHASE II

CROWN CASTLE PROJECT NO.
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 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T IS STRICTLY PROHIBITED.

DIGALERT
1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
TICKET #_____

REVISION / ISSUE	DATE
CITY REDLINE	11/20/15
RE-LOCATE IONS	11/25/15

SITE NAME & ADDRESS:
ASG38
GOLDEN MEADOW DR
& MAYCROFT DR
RANCHO PALOS VERDES, CA

TITLE SHEET

DRAWN BY:	DRAFT DATE:	APPROVED BY:
AC	10/07/15	GA

SHEET NO.
T-1

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
C&G	EXISTING CURB & GUTTER
A/C	EXISTING ASPHALT CURB
EOP	EXISTING EDGE OF PAVEMENT
BERM	EXISTING BERM
R/W	EXISTING RIGHT OF WAY
S/B	SUBDIVISION BOUNDARY
℄	EXISTING CENTER LINE
℄	EXISTING CENTER LINE

ABBREVIATIONS

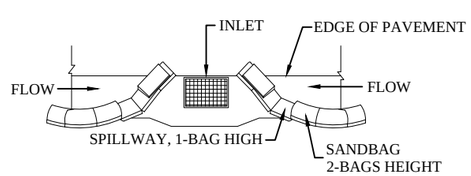
A/C	ASPHALT CURB
C&G	CURB & GUTTER
CL	CENTERLINE
EX	EXISTING
EOP	EDGE OF PAVEMENT
PL	PROPERTY LINE
R/W	RIGHT OF WAY
S/B	SUBDIVISION BOUNDARY

EROSION AND SEDIMENT CONTROL NOTES:

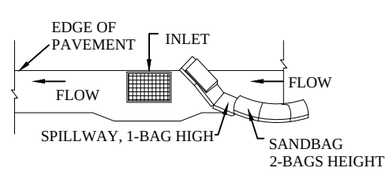
TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

1. 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.
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. 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.
4. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
5. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.
6. 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.
7. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
8. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED IMPROVEMENT PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
9. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
10. 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:

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

NOTES:

1. CONTRACTOR TO POTHOLE ALL UTILITY CROSSINGS.
2. CONTRACTOR TO PLACE SANDBAGS AROUND ANY/ALL STORM DRAIN INLETS TO PREVENT CONTAMINATED WATER.
3. SPOILS PILE WILL BE COVERED AND CONTAINED AND STREET WILL BE SWEPT AND CLEANED AS NEEDED.
4. CONTRACTOR TO REPAIR DAMAGED PUBLIC IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER.
5. CURB & GUTTER TO BE PROTECTED IN PLACE. SIDEWALK TO BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
6. 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.
7. SIDEWALK SHALL BE RESTORED/REPLACED PER CITY OF RANCHOS PALOS VERDES STANDARD DRAWINGS.
8. PEDESTRIAN RAMP WILL NOT BE DISTURBED.

ROW GROUND CONSTRUCTION NOTES:

1. GROUND CONSTRUCTION TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, FEDERAL, G095 AND G0128 STANDARDS AND REGULATIONS.
3. CALL USA 48 HOURS PRIOR TO EXCAVATING AT (800) 227-2600 OR 811.
4. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
5. ALL EQUIPMENT TO BE BONDED.
6. METERING CABINET REQUIRES 36" CLEARANCE AT DOOR OPENING.
7. CAULK CABINET BASE AT PAD.

NORMAL LOCATION OF UNDERGROUND UTILITIES NOTES:

1. 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.
2. CHANGES MAY BE PERMITTED BY THE DEPT. OF PUBLIC WORKS IN CASES OF CONFLICTING FACILITIES.
3. CONFLICTS BETWEEN UTILITY COMPANIES FACILITIES, EXISTING AND PROPOSED, MUST BE MUTUALLY RESOLVED BY THE UTILITY COMPANIES.
4. FOR COMMERCIAL SIDEWALKS, THE FIRE HYDRANT SHALL BE PLACED WITHIN THE SIDEWALK 1'-6" BEHIND FACE OF CURB.
5. 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:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS DO NOT APPLY IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.

FCC NOTE:
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.

ASG38

PHASE II

CROWN CASTLE PROJECT NO.
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 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T IS STRICTLY PROHIBITED.

DIGALERT
1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
TICKET #_____

REVISION / ISSUE	DATE
CITY REDLINE	11/20/15
RE-LOCATE IONS	11/25/15

SITE NAME & ADDRESS:
ASG38
GOLDEN MEADOW DR
& MAYCROFT DR
RANCHO PALOS VERDES, CA

DETAILS & NOTES

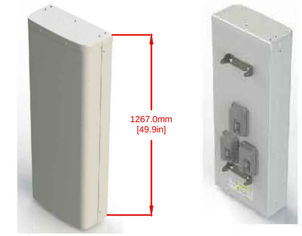
DRAWN BY:	DRAFT DATE:	APPROVED BY:
AC	10/07/15	GA

SHEET NO.
D-1

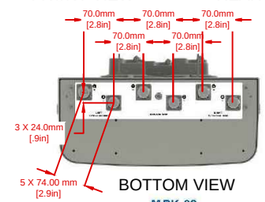
CCI HEXPORT 45° MULTI-BAND ANTENNA
(Model #HPA-45R-BUU-H4)

HPA-45R Multi-Band Antenna Electrical Specifications

Frequency Range	2 X Low Band Ports which cover the full range from 698-894 MHz		4 X High Band Ports which cover the full range from 1710-2360 MHz			
	698-806 MHz	824-894 MHz	1850-1990	1710-1755/2110-2155 MHz	2305-2360 MHz	
Gain	14.2 dBi	14.2 dBi	17.0 dBi	16.5 dBi	17.2 dBi	17.1 dBi
Azimuth Beamwidth (-3dB)	50º	44º	48º	49º	46º	44º
Elevation Beamwidth (-3dB)	17.6º	15.0º	9.3º	10.4º	8.5º	8.1º
Electrical Downtilt	0º to 14º	0º to 14º	0º to 10º	0º to 10º	0º to 10º	0º to 10º
Elevation Sidelobes (1st Upper)	< -17 dB	< -17 dB	< -16 dB	< -16 dB	< -16 dB	< -16 dB
Front-to-Back Ratio @180°	> 30 dB	> 30 dB	> 30 dB	> 30 dB	> 30 dB	> 30 dB
Front-to-Back Ratio over ±20°	> 30 dB	> 30 dB	> 30 dB	> 30 dB	> 30 dB	> 30 dB
Cross-Polar Discrimination (at Peak)	> 25 dB	> 25 dB	> 20 dB	> 20 dB	> 20 dB	> 20 dB
Cross-Polar Discrimination (at ±45°)	> 20 dB	> 20 dB	> 18 dB	> 18 dB	> 20 dB	> 20 dB
Cross-Polar Port-to-Port Isolation	> 30 dB	> 27 dB	> 25 dB	> 25 dB	> 25 dB	> 25 dB
VSWR	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2x20W)	≤ -150dBc	≤ -150dBc	≤ -150dBc	≤ -150dBc	≤ -150dBc	≤ -150dBc
Input Power	500 Watts CW	500 Watts CW	300 Watts CW	300 Watts CW	300 Watts CW	300 Watts CW
Polarization	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°
Input Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground	DC Ground	DC Ground



FRONT VIEW REAR VIEW



BOTTOM VIEW

Mechanical Specifications

Dimensions (LxWxD)	49.9 x 18.9 x 8.3 inches (1267 x 480 x 211 mm)
Survival Wind Speed	> 150 mph
Front Wind Load	202 lbs (897 N) @ 100 mph (161 kph)
Side Wind Load	100 lbs (444 N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	7.9 ft^2 (0.7 m^2)
Weight (without Ret/Mounting)	39.9 lbs (18.1 kg)
RET System Weight	5.1 lbs (2.3 kg)
Connector	6; 7-16 DIN female long neck
Mounting Pole	2-5 inches (5-12 cm)

Ordering Information:

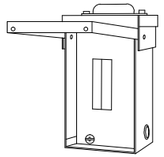
HPA-45R-BUU-H4	4 Foot Hexport Antenna with 45° Azimuth Beamwidth and factory installed RET Actuators (3)
HPA-45R-BUU-H4-K	Complete Kit with Antenna, Factory Installed Actuators (3) and MBK-02 Mounting Bracket
BSA-RET200	RET Actuator
MBK-02	Mounting Bracket (Top & Bottom) with 0° through 10° Mechanical tilt Adjustments: See Installation Guide 50-000038-01 for Details: Weight 10.3 Lbs. (4.7 kg)

MBK-02 Top Mounting Bracket

MBK-02 Bottom Mounting Bracket

1	SCALE
	N.T.S.

SQUARE D BY SCHNEIDER ELECTRIC LOAD CENTER, 70A
(MODEL #QO24L70RB)



TECHNICAL CHARACTERISTICS

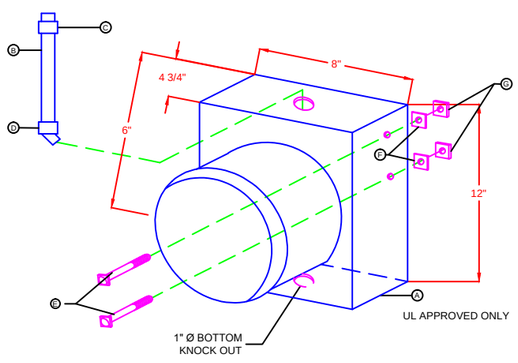
AMPERE RATING	70A
MAXIMUM SINGLE POLE CIRCUITS	4
WIDTH	4.88 INCHES
APPLICATION	DESIGNED TO MEET RESIDENTIAL, COMMERCIAL AND INDUSTRIAL REQUIREMENTS TO PROTECT ELECTRICAL SYSTEMS, EQUIPMENT AND PEOPLE.
SPACES	2
WIRE SIZE	#12 TO 3 AWG(AL) - #14 TO 4 AWG(CU)
MAXIMUM TANDEM CIRCUIT BREAKERS	2
VOLTAGE RATING	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 SCHEDULEDE	3A
ARTICLE NUMBER	785901785132
PACKAGE QUANTITY	1
WEIGHT	5 LBS.
AVAILABILITY CODE	S
RETURNABILITY	Y

2	SCALE
	N.T.S.

POWER METER



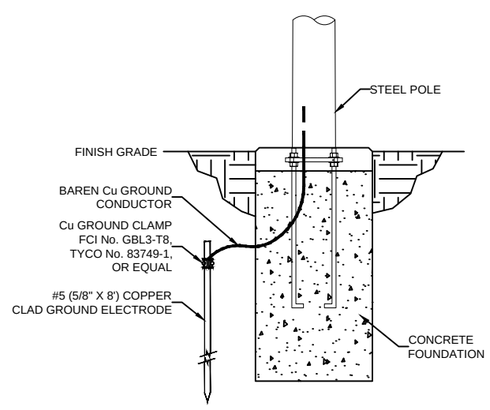
NOTES:
1. TOP KNOCK OUT WITH LIQUID FLEX 45° AND STRAIGHT CONNECTORS AVAILABLE TO POWER UTILITY CREW CONNECTION.
2. BOTTOM KNOCK OUT FOR CONNECTING TO CUSTOMER FUSE DISCONNECT BOX.
3. HEIGHT MAY BE DETERMINED BY POWER UTILITY.

PARTS LIST

CALLOUT	QTY	DESCRIPTION	CALLOUT	QTY	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			

3	SCALE
	N.T.S.

GROUND ROD INSTALLATION FOR STEEL POLE
TYPICAL SECTION: N.T.S.



4	SCALE
	N.T.S.

ASG38

PHASE II

CROWN CASTLE PROJECT NO.
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 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T IS STRICTLY PROHIBITED.

DIGALERT
1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
TICKET #_____

REVISION / ISSUE	DATE
CITY REDLINE	11/20/15
RE-LOCATE IONS	11/25/15

SITE NAME & ADDRESS:
ASG38
GOLDEN MEADOW DR
& MAYCROFT DR
RANCHO PALOS VERDES, CA

DETAILS & NOTES

DRAWN BY:	DRAFT DATE:	APPROVED BY:
AC	10/07/15	GA

SHEET NO.
D-2

ANDREW ION-M17HP/19HP

MULTI-BAND, MULTI-OPERATOR REMOTE OPTICAL SYSTEM

Electrical

Power Supply
Mains Power, Vac. ..... 85 to 264
..... 115 or 230
Power consumption, watts 1150

Optical

Connectors ..... E2000/APC 8°
Optical return loss, dB ..... 45 minimum
Fiber type, mm ..... Single mode E9/125
Optical link budget, dB ..... 0 to 10
Composite input power
@ OTRx master side, dBm
1900 MHz ..... +5 composite
1700 / 2100 MHz ..... +5 composite

Interface

BTS Side
Number of connectors
1900 MHz 4
1700/2100 MHz 4

System optimized for BTS power, dBm
..... 33
..... 43

Antenna Port
Connector ..... 7/16 Female
Output power ..... See band specification
Return loss, dB 15

1700/2100 MHz (AWS)

Frequency range, MHz
Uplink ..... 1710 to 1755
Downlink ..... 2110 to 2155

Output power per carrier, dBm*

Number of Carriers	1	2	4	8
GSM	45	42	39	36
CDMA	45	42	39	36
UMTS	45	42	39	36
LTE	45	42**	39	36

Spurious emission ..... < -13 dBm / 1 MHz

Adjacent channel power, dBc ..... -48
DL output tolerance over frequency, dB ..... ±1
DL output tolerance over temperature, dB 0.5***
Input ICP3, dBm
ICP3 optimized ..... -12
Noise figure optimized ..... -18

Noise figure, dB
ICP3 optimized 7
..... 11 max.
Noise figure optimized 4.5
..... 6 max.

1900 MHz (AWS)

Frequency range, MHz
Uplink ..... 1850 to 1915
Downlink ..... 1930 to 1995

Output power per carrier, dBm*

Number of Carriers	1	2	4	8
GSM	45	42	39	36
CDMA	45	42	39	36
UMTS	45	42	39	36
LTE	45	42**	39	36

Spurious emission ..... < -13 dBm / 1 MHz
DL output tolerance over frequency, dB ..... ±1
DL output tolerance over temperature, dB 0.5***
Input ICP3, dBm
ICP3 optimized ..... -12
Noise figure optimized ..... -18

Noise figure, dB
ICP3 optimized 7
..... 11 max.
Noise figure optimized 4.5
..... 6 max.

System Supervision and Control

Commands ..... RF on/off
External control parts
Alarms ..... Summary
..... Power Supply
..... Optical UL and DL failure
..... Temperature
Supervision ..... Output power on a per-channel and per-band basis (optional)

Mechanical****

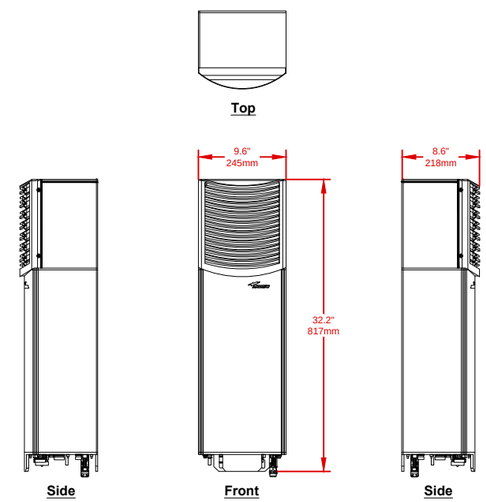
Height, width, depth mm (in) ..... 817 x 245 x 218
(32.2 x 9.61 x 8.6)
Weight, kg (lb) 40 (88.2)

Environmental

Operation temperature range ..... -33° C to +50° C
Ingress protection RF part IP67
Fan part IP55

* Applicable to single modulation mode only
** 3db power reduction @ < 5MHz carrier bandwith
*** With active cooling
**** Spacing required 40 mm (1.58 in) around unit
**** With passive cooling maximum temperature +40° C

All figures are typical values.



5 | SCALE N.T.S.

ASG38

PHASE II

CROWN CASTLE PROJECT NO.
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 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T IS STRICTLY PROHIBITED.

DIGALERT
1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
TICKET #_____

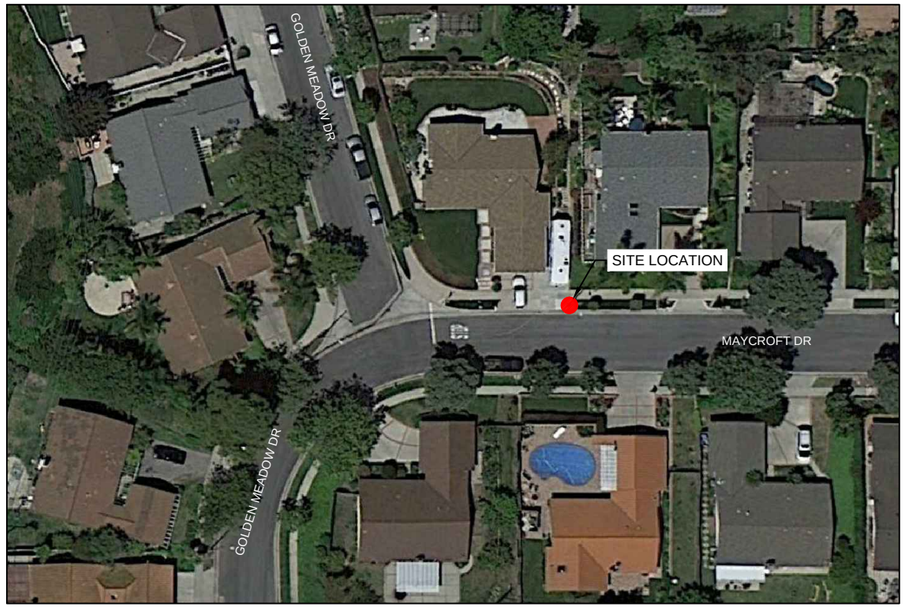
REVISION / ISSUE	DATE
CITY REDLINE	11/20/15
RE-LOCATE IONS	11/25/15

SITE NAME & ADDRESS:
ASG38
GOLDEN MEADOW DR
& MAYCROFT DR
RANCHO PALOS VERDES, CA

DETAILS & NOTES

DRAWN BY:	DRAFT DATE:	APPROVED BY:
AC	10/07/15	GA

SHEET NO.
D-3



A KEY MAP

B 12 O'CLOCK VIEW

C 3 O'CLOCK VIEW

D 9 O'CLOCK VIEW

ASG38

PHASE II

CROWN CASTLE PROJECT NO.

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 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T IS STRICTLY PROHIBITED.

DIGALERT

1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
TICKET #_____

REVISION / ISSUE	DATE
CITY REDLINE	11/20/15
RE-LOCATE IONS	11/25/15

SITE NAME & ADDRESS:

ASG38
GOLDEN MEADOW DR
& MAYCROFT DR
RANCHO PALOS VERDES, CA

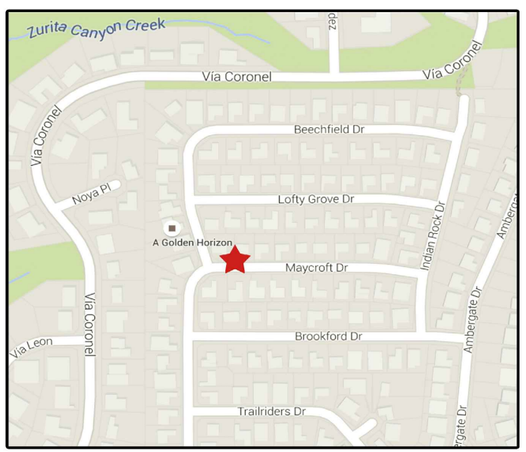
SITE PHOTOS

DRAWN BY:	DRAFT DATE:	APPROVED BY:
AC	10/07/15	GA

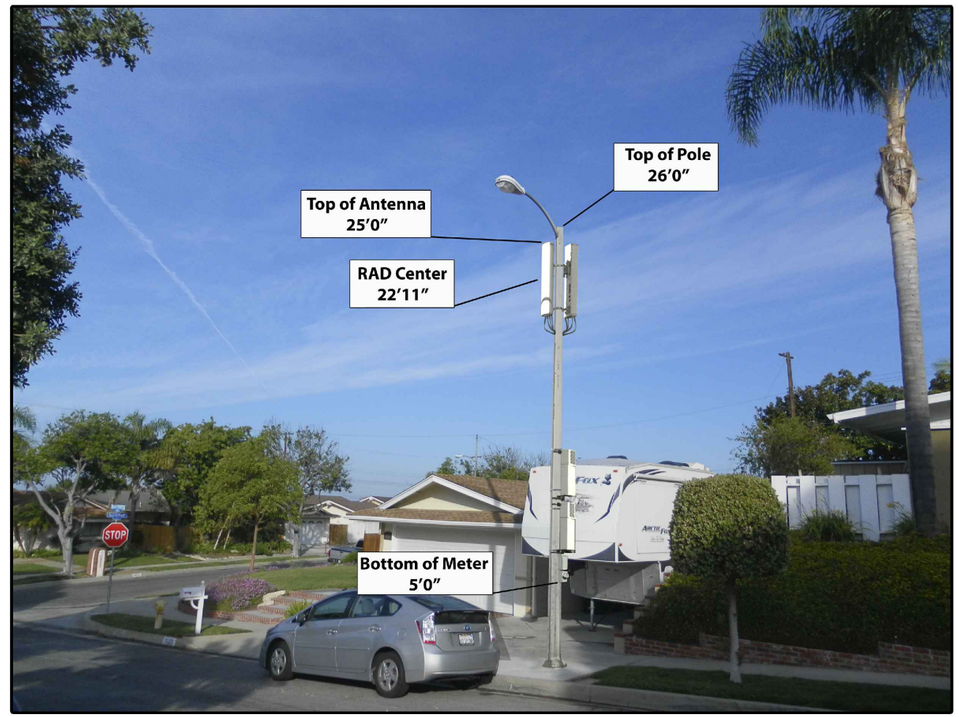
SHEET NO.

S-1

Existing Site



Vicinity Map



Proposed Site ASG38

CROWN CASTLE

ASG38

PHASE II

CROWN CASTLE PROJECT NO.

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 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T IS STRICTLY PROHIBITED.

DIGALERT

1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
TICKET #_____

REVISION / ISSUE	DATE
CITY REDLINE	11/20/15
RE-LOCATE IONS	11/25/15

SITE NAME & ADDRESS:

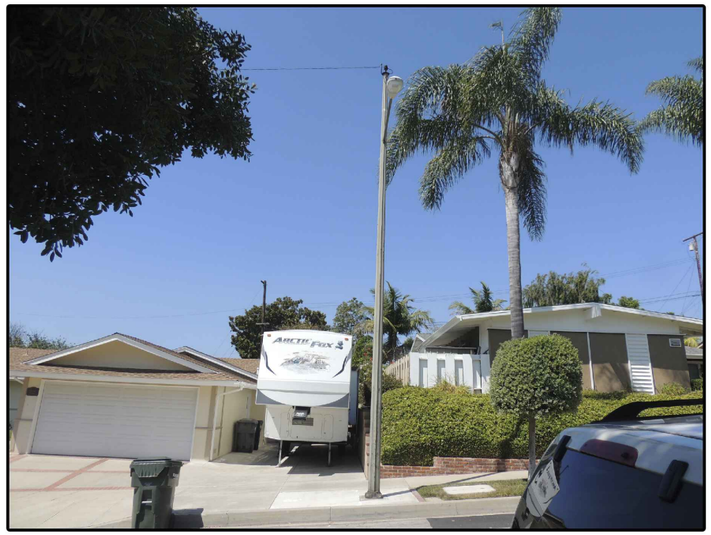
ASG38
GOLDEN MEADOW DR
& MAYCROFT DR
RANCHO PALOS VERDES, CA

PHOTOSIM

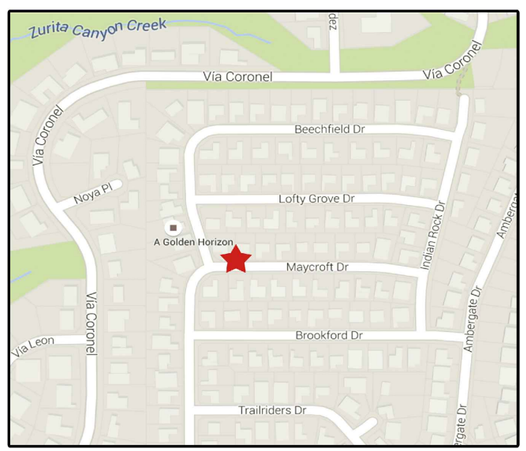
DRAWN BY:	DRAFT DATE:	APPROVED BY:
AC	10/07/15	GA

SHEET NO.

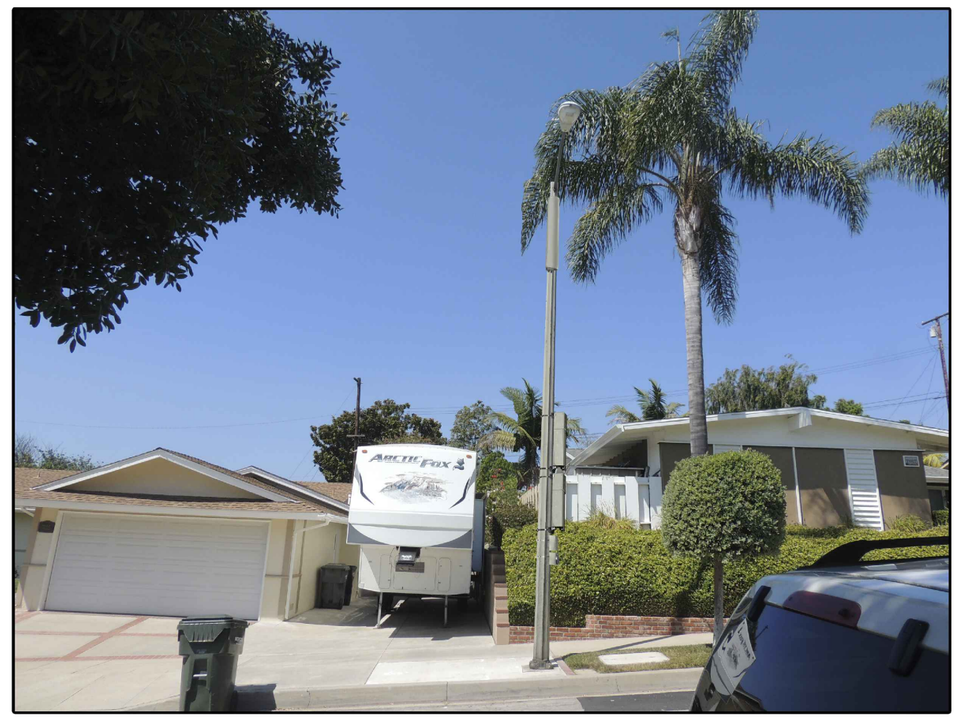
S-2



Existing Site



Vicinity Map



Proposed Site ASG38

CROWN CASTLE

ASG38

PHASE II

CROWN CASTLE PROJECT NO.

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 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T IS STRICTLY PROHIBITED.

DIGALERT

1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
TICKET #_____

REVISION / ISSUE	DATE
CITY REDLINE	11/20/15
RE-LOCATE IONS	11/25/15

SITE NAME & ADDRESS:

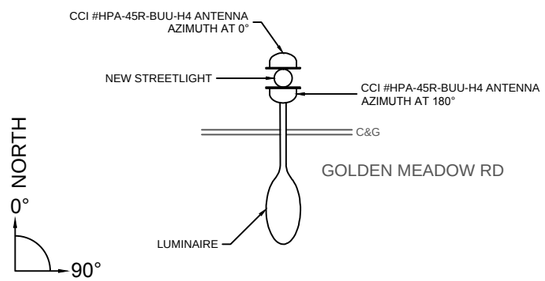
ASG38
GOLDEN MEADOW DR
& MAYCROFT DR
RANCHO PALOS VERDES, CA

PHOTOSIM

DRAWN BY:	DRAFT DATE:	APPROVED BY:
AC	10/07/15	GA

SHEET NO.

S-3

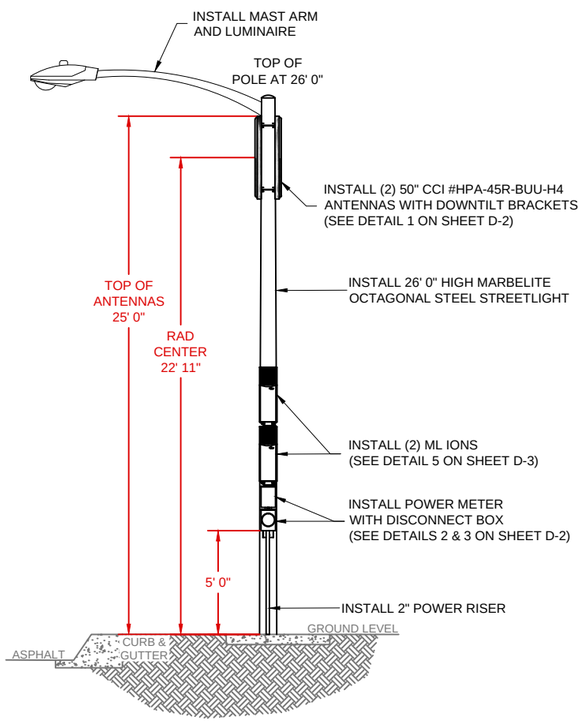


A ANTENNA DETAILS — N.T.S.

STREETLIGHT #1458878E

TOP OF EXISTING POLE: 31' 0"
TOP OF NEW POLE: 26' 0"
TOP OF ANTENNA: 25' 0"
RAD CENTER: 22' 11"
AZIMUTHS: 0° & 180°

EQUIPMENT AND ANTENNAS TO BE PAINTED TO MATCH POLE.



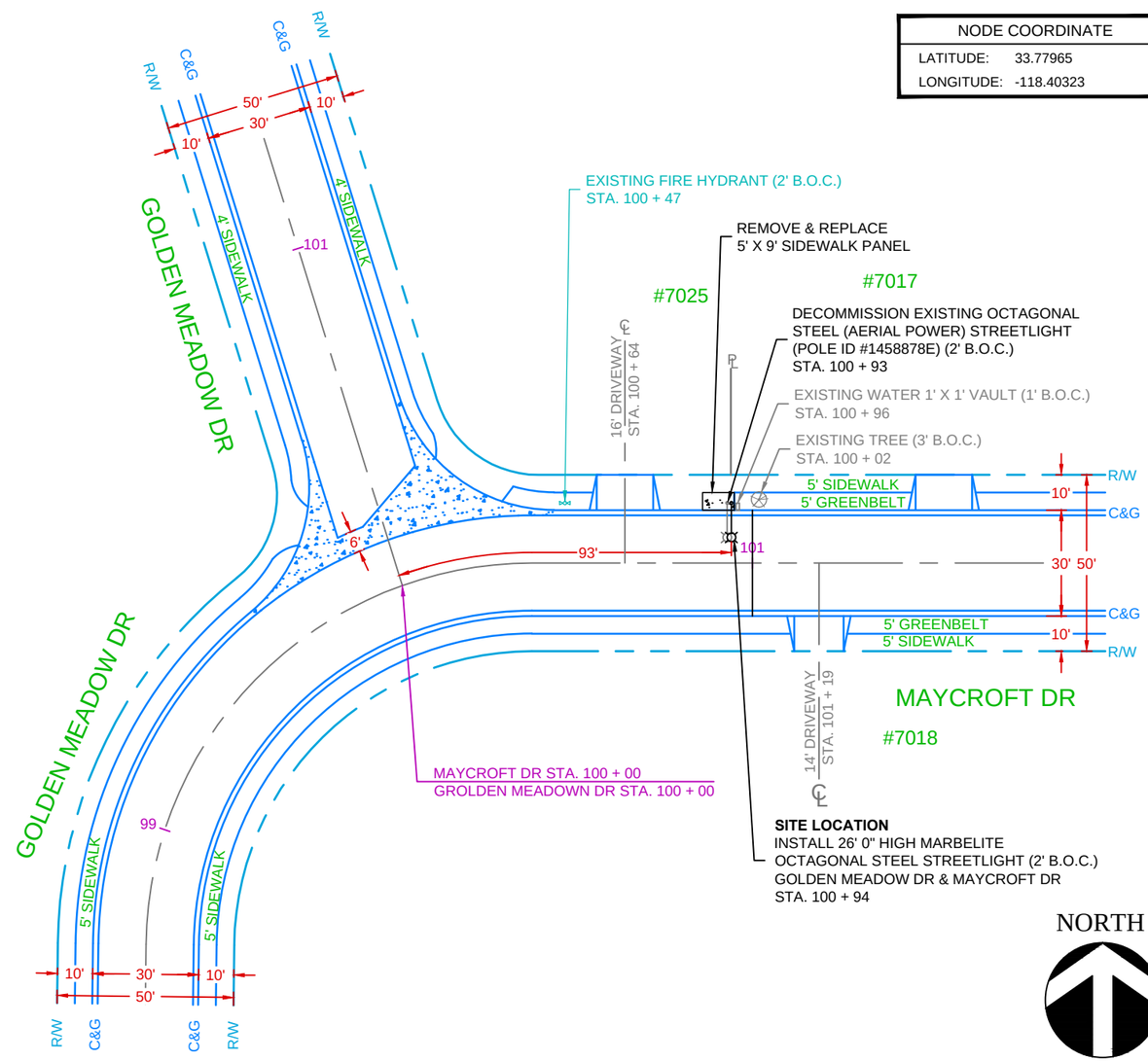
B 9 O'CLOCK VIEW — N.T.S.

NEW CONSTRUCTION

- DECOMMISSION EXISTING 31' 0" HIGH OCTAGONAL STEEL (AERIAL POWER) STREETLIGHT (POLE ID #1458878E) AND REPLACE WITH A NEW 26' 0" HIGH MARBELITE OCTAGONAL STEEL STREETLIGHT WITH MAST ARM AND LUMINAIRE.
- INSTALL (2) 50" CCI #HPA-45R-BUU-H4 ANTENNAS WITH DOWNTILT BRACKETS.
- INSTALL (2) ML IONS.
- INSTALL 2" POWER RISER.
- INSTALL POWER METER WITH DISCONNECT BOX.
- INSTALL VGR.
- EQUIPMENT AND ANTENNAS TO BE PAINTED TO MATCH POLE.

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

NODE COORDINATE	
LATITUDE:	33.77965
LONGITUDE:	-118.40323



SCALE: 1" = 40'

ASG38

PHASE II

CROWN CASTLE PROJECT NO.
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 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T IS STRICTLY PROHIBITED.

DIGALERT
1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
TICKET #_____

REVISION / ISSUE	DATE
CITY REDLINE	11/20/15
RE-LOCATE IONS	11/25/15

SITE NAME & ADDRESS:
ASG38
GOLDEN MEADOW DR
& MAYCROFT DR
RANCHO PALOS VERDES, CA

POLE PROFILE
& SITE PLAN

DRAWN BY:	DRAFT DATE:	APPROVED BY:
AC	10/07/15	GA

SHEET NO.
P-1