



Crown Castle  
300 Spectrum Center Drive  
Suite 1200  
Irvine, CA 92618

July 21, 2016

Greg Grammer  
Assistant City Manager  
City of Rolling Hills Estates  
4045 Palos Verdes Drive, North  
Rolling Hills Estates, CA 90274

Re: Application for a DAS node within the Public Right of Way (ASG19)

Dear Greg,

Crown Castle NG West LLC (“Crown Castle”) is submitting a wireless facility major permit application to place an antenna canister on an existing streetlight pole in accordance with your code, ordinances and regulations. Please be advised the Federal Communications Commission (FCC) has adopted Rules and Regulations that impact how you must process this application. In addition, state law also limits your regulation of Crown Castle’s access to the public rights of way.

***Crown Castle’s Deployment***

Crown Castle provides telecommunications services to its wireless carrier customers. It does so via telecommunications networks installed in the public rights of way that integrate elements including fiber optic cables as well as personal wireless services facilities, such as antennas and related equipment. Crown Castle’s networks are sometimes referred to as distributed antenna systems (“DAS”) or Small Cell networks. The specific equipment sought to be installed by Crown Castle in this case is set forth in the accompanying permit application.

Pursuant to the California Public Utilities Commission, Crown Castle has been granted a Certificate of Public Convenience and Necessity (“CPCN”) to provide such services. As a result, Crown Castle must be granted access to the public rights of way in the same manner and on the same terms applicable to other certificated telecommunications providers and utilities.<sup>1</sup>

***Federal and State Regulations Applicable To This Application***

Federal law and the FCC’s rules implementing the law require that this permit application be processed to a final decision by this jurisdiction without undue delay. Specifically, because this application proposes to replace an existing street sign pole in the public rights of way, this application must be acted on within ninety (90) days

---

<sup>1</sup> See CA Pub. Util. Code, §§ 7901 and 7901.1

from its submission, today.<sup>2</sup> Further, pursuant to recently passed California AB 57, if the City “fails to approve or disapprove” this application within that timeframe, it “shall be deemed approved.”<sup>3</sup>

Moreover, pursuant to FCC regulations, this application is deemed complete 30 days after today unless you provide written notice to Crown Castle.<sup>4</sup> If you contend that the application is incomplete, within the next 30 days you must provide written notice specifying any items you claim are missing to make the application complete.<sup>5</sup> For each item alleged to be missing, you must specify the code provision, ordinance, application instruction, or otherwise publically-stated procedure that requires the submission of the information.<sup>6</sup>

Please send all written requests for additional information regarding this application to:

Aaron Snyder  
Government Relations Specialist  
Crown Castle  
300 Spectrum Center Drive, Suite 1200  
Irvine, CA 92618

Sincerely,

**CROWN CASTLE NG WEST LLC**

*Stephen Garcia*

Stephen Garcia

---

<sup>2</sup> *In re Petition for Declaratory Ruling to Clarify Provisions of Section 332(c)(7)(B) to Ensure Timely Siting Review*, Declaratory Ruling, 24 FCC Rcd. 13994 ¶¶ 32, 45-46 (2009) (“*FCC Shot Clock Order*”); *In the matter of Acceleration of Broadband Deployment By Improving Wireless Facilities Siting Policies*, Report and Order, FCC 14-153, WT Docket No. 13-238, ¶272 (FCC Oct. 21, 2014) (“*Wireless Infrastructure Order*”).

<sup>3</sup> See CA Government Code Section 65964.1.

<sup>4</sup> *Wireless Infrastructure Order* at ¶¶ 257, 259.

<sup>5</sup> *Id.* ¶¶ 259-260.

<sup>6</sup> *Id.*

**Project Description**

- 1. Project Title:** ASG 19 (*new build*)
- 2. Lead Agency Name and Address:** City of Rolling Hills Estates  
4045 Palos Verdes Drive North  
Rolling Hills Estates, California 90274
- 3. Contact Person and Phone Number:** Greg Grammer, Assistant City Manager  
(310) 377-1577 X 107
- 4. Project Location:** Street Sign Pole @ **Silver Spur Rd & Range Horse Ln**
- 5. Project Sponsor's Name/Address:** Aaron Snyder  
Crown Castle NG West, Inc.  
300 Spectrum Center Drive,  
Suite 1200  
Irvine, CA 92618  
T: (909) 568-4519
- 6. Description of Project:**

Crown Castle NG West, Inc. ("Crown Castle" or the "Applicant") is a public utility registered with the California Public Utilities Commission (CPUC), and is proposing to build a new DAS site by:

1. Replace existing 9'11" street sign pole with new 18'0" street sign pole
2. Install two (2) 49.9" antennas on new street sign pole.
3. Install one (1) electric meter pedestal containing two (2) radio equipment units on Silver Spur Road.

Crown Castle will construct, operate, and maintain the Distributed Antenna System DAS (DAS) site within the City of Rolling Hills Estates. The DAS site is intended to extend E911 coverage and transmit wireless voice and data communications to customers in the City. In addition to the proposed node, an electric meter pedestal will be installed on Silver Spur Road.

The components and details of the proposed cell site (ASG19) are described in Table 1

<b>Table 1</b>		
<b>Cell Site</b>	<b>Antennas</b>	<b>Cabinets</b>
<p><b>Location:</b> Street sign pole with No Tag # @ Silver Spur Rd and Range Horse Lane.</p> <p><b>Node ID:</b> ASG19</p> <p><b>Structure:</b> New 18' street sign pole high located on the south side of Silver Spur Rd.</p>	<p><b>Install</b> two (2) panel antennas measuring 49.9" high x 18.9" wide x 8.3" deep.</p> <p>The top of the antennas are installed at a height of 18'-0."</p>	<p><b>Install</b> one 59.1" high x 22.5" wide x 12.6" deep electric meter pedestal containing two (2) radio equipment units on the south side of Silver Spur Rd approx 20 ft to the south of the proposed location.</p>

Crown Castle proposes to replace an existing 9'11" street sign pole with a new 18' street sign pole containing two (2) 49.9" panel antennas and an electric meter pedestal measuring 59.1" x 22.5" x 12.6" containing both the SCE meter as well as two (2) radio equipment units near the base of the proposed location. All existing traffic signs will be reinstalled on the new pole. All cabling to remain concealed in the pole or underground conduit where feasible.

The unimproved shoulder area around the pole may be closed for one full day and approximately 8 hours spread over three separate days within a one-month period to accommodate installation activities for the cell site. The equipment that would be installed by the applicant is regulated by applicable federal and state regulations (through the Federal Communications Commission and the California Public Utilities Commission), and the applicant will comply with all relevant regulations from these agencies.

A mock-up of the proposed new cell site will be installed at the proposed location and will remain in place during the public comment period. Additionally, drawings and *before* and *after* photographs of the proposed cell site are provided in a project file identified as **ASG19**.

Personal wireless service facilities are subject to Section 17.39 of the City’s Municipal Code. The proposed project requires the following City Discretionary actions, pursuant to Section 17.39.070 of the Municipal Code:

<b>City Discretionary</b>	
<b>Decision-Making Body</b>	<b>Action Required</b>
City Manager	Approval per Section 17.39.070 of the Municipal Code

Pursuant to this Code section, the “city manager, to the full extent permissible by federal law and the California Public Utilities Commission (CPUC), shall review any proposal for a personal wireless service facility located on City-owned or controlled property and have sole discretion to approve such facility with appropriate conditions or deny such facility.”

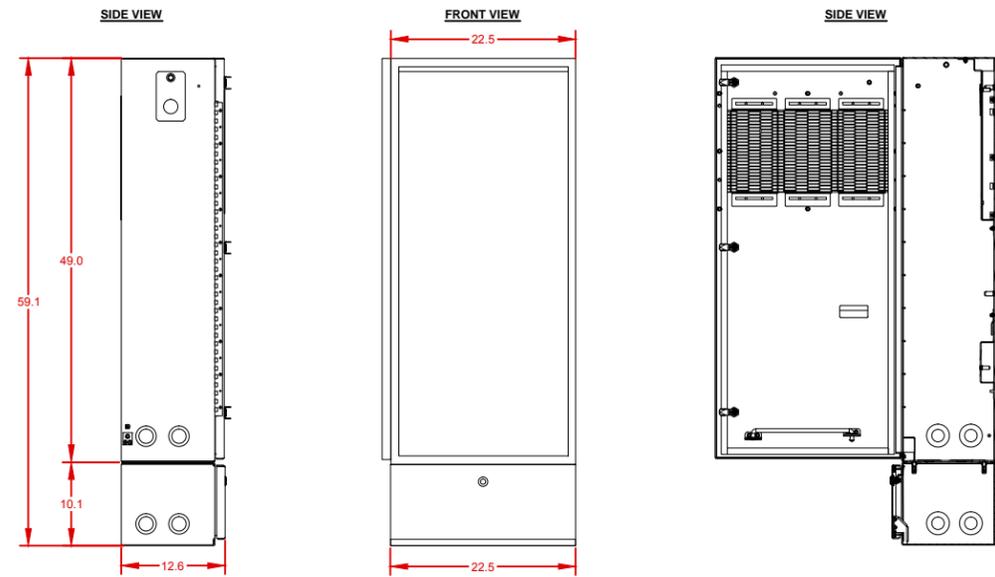
**7. Surrounding land uses and setting:** Surrounding land uses for the site are as follows:

<b>Cell Site</b>	<b>Surrounding Uses</b>
Street sign pole located on Range Horse Lane and Silver Spur Rd.	North: Range Horse Lane public right-of-way South: Silver Spur Rd public right-of-way East: Silver Spur Rd public right-of-way West: Silver Spur Rd public right-of-way





**CISH-51 PEDESTAL**



**NOTES:**

CUBE APPROX. WEIGHT W/PEDESTAL = 105 LBS

\* ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

1 SCALE N.T.S.

**Electrical**

Power Supply	85 to 264
Mains Power, Vac.	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**

<b>BTS Side</b>	
Number of connectors	
1900 MHz	4
1700/2100 MHz	4
System optimized for BTS power, dBm	
	33
	43
<b>Antenna Port</b>	
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

Noise figure optimized 11 max.

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

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

Noise figure optimized 11 max.

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 bandwidth

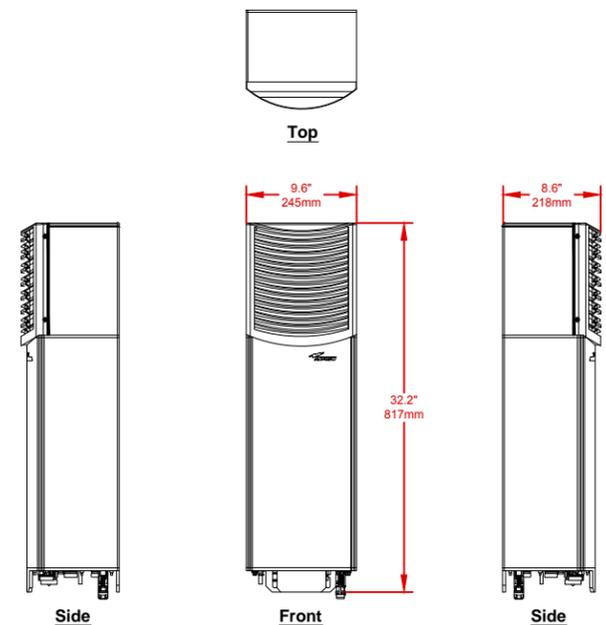
\*\*\* With active cooling

\*\*\*\* Spacing required 40 mm (1.58 in) around unit

\*\*\*\* With passive cooling maximum temperature +40° C

All figures are typical values.

**ANDREW ION-M17HP/19HP**  
MULTI-BAND, MULTI-OPERATOR  
REMOTE OPTICAL SYSTEM



2 SCALE N.T.S.

**ASG19m1**

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 # \_\_\_\_\_

REMOVE PROP. SEC. POWER	11/23/15
EQUIP. OFF POLE, ADD CISH	4/21/16
ADD RETAINING WALL	5/11/16
REMOVE RETAINING WALL, MOVE CISH-51 CLOSE TO RW.	07/18/16
REVISION / ISSUE	DATE

SITE NAME & ADDRESS:  
**ASG19m1**  
RANGE HORSE LN &  
SILVER SPUR RD  
ROLLING HILLS ESTATES, CA

**DETAILS & NOTES**

DRAWN BY: AC	DRAFT DATE: 11/02/15	APPROVED BY: KB
SHEET NO. <b>D-2</b>		







**A KEY MAP**



**B 12 O'CLOCK VIEW**



**C 3 O'CLOCK VIEW**



**D 9 O'CLOCK VIEW**

# ASG19m1

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 # \_\_\_\_\_

REMOVE PROP. SEC. POWER	11/23/15
EQUIP. OFF POLE, ADD CISH	4/21/16
ADD RETAINING WALL	5/11/16
REMOVE RETAINING WALL, MOVE CISH-51 CLOSE TO RW.	07/18/16
REVISION / ISSUE	DATE

SITE NAME & ADDRESS:  
**ASG19m1**  
RANGE HORSE LN &  
SILVER SPUR RD  
ROLLING HILLS ESTATES, CA

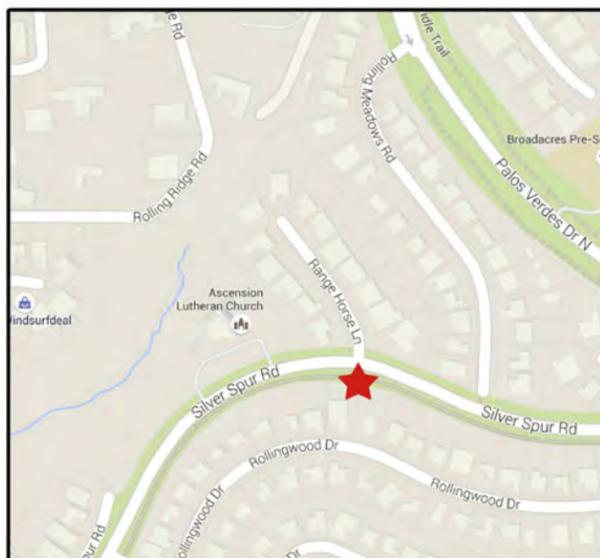
## SITE PHOTOS

DRAWN BY: AC    DRAFT DATE: 11/02/15    APPROVED BY: KB

SHEET NO.  
**S-1**



**Existing Site**



**Vicinity Map**



**Proposed Site ASG19m1**



**ASG19m1**

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 # \_\_\_\_\_

REMOVE PROP. SEC. POWER	11/23/15
EQUIP. OFF POLE, ADD CISH	4/21/16
ADD RETAINING WALL	5/11/16
REMOVE RETAINING WALL, MOVE CISH-51 CLOSE TO RW.	07/18/16
REVISION / ISSUE	DATE

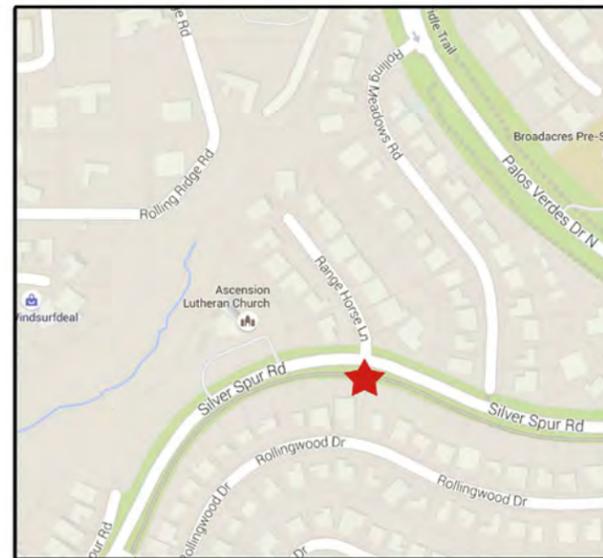
SITE NAME & ADDRESS:  
**ASG19m1**  
RANGE HORSE LN &  
SILVER SPUR RD  
ROLLING HILLS ESTATES, CA

**PHOTO SIM**

DRAWN BY: AC    DRAFT DATE: 11/02/15    APPROVED BY: KB  
SHEET NO. **S-2**



**Existing Site**



**Vicinity Map**



**Proposed Site ASG19m1**

**ASG19m1**

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 # \_\_\_\_\_

REMOVE PROP. SEC. POWER	11/23/15
EQUIP. OFF POLE, ADD CISH	4/21/16
ADD RETAINING WALL	5/11/16
REMOVE RETAINING WALL, MOVE CISH-51 CLOSE TO RW.	07/18/16
REVISION / ISSUE	DATE

SITE NAME & ADDRESS:  
**ASG19m1**  
RANGE HORSE LN &  
SILVER SPUR RD  
ROLLING HILLS ESTATES, CA

**PHOTO SIM**

DRAWN BY: AC    DRAFT DATE: 11/02/15    APPROVED BY: KB  
SHEET NO. S-3



