Order: Redondo Beach Pier

1. **Introduction**. This Order (this "Order"), dated effective as of the date of the last signature below (the "Order Effective Date"), is an agreement entered into by and between **City of Redondo Beach** ("Licensor") and **Crown Castle Fiber LLC** ("Licensee") pursuant to the Parties' Facility License Agreement dated June 16, 2026 (the "Agreement").

2. **General Framework**. All of the Agreement's terms and conditions, including any Agreement attachments, as amended before the Order Effective Date (if applicable), are incorporated by reference into this Order. Capitalized terms used but not defined in this Order have the meanings designated in the Agreement; capitalized terms used and defined in this Order will have the meanings designated. If there is a conflict between the Agreement's terms and conditions and this Order's terms and conditions, or this Order contains terms and conditions not contained in the Agreement, then this Order will control over the Agreement, but only to the extent of the actual conflict or supplemental terms.

3. **Order**. For good, valuable and adequate consideration, which the Parties acknowledge receiving, in accordance with the Agreement's terms and conditions, as supplemented or amended by this Order, Licensee licenses from Licensor, and Licensor licenses to Licensee: (a) the Node and other Attachment locations described on Exhibits 1 and 2 to this Order; (b) the Hub Site location as more particularly described on Exhibits 1 and 3 to this Order; (c) the Fiber Network described on Exhibits 1 and 4 to this Order; and (d) the conduit locations described on Exhibit 5 to this Order.

4. **Applicable Exhibits**. The following exhibits are an integral part of this Order and are incorporated by this reference:

☒ Exhibit 1 – System Description
☒ Exhibit 2 – Node Locations
☒ Exhibit 3 – Hub Site
☐ Exhibit 4 – Fiber Network
☐ Exhibit 5 – Conduit

5. **Preliminary Drawings**. The Radio Space, Node, Hub Site, other Attachment and Fiber Network and conduit locations are generally identified in the attached preliminary drawings. During the design and installation process, the actual locations thereof will be specifically identified and (may be changed) by mutual agreement of the Parties. Pursuant to Section 5.a of the Agreement, at the completion of the System installation, the Parties covenant that the drawings attached to this Order, as appropriate, will be replaced and updated with as-built drawings which shall become a part of this Order.

6. **Authorized Signatures**. This Order, together with the Agreement, contains the Parties' entire agreement regarding this Order's subject matter. Upon this Order's execution and delivery by the Parties' authorized representatives, this Order will be binding on the Parties and is incorporated by this reference into the Agreement. This Order is effective on the Order Effective Date.

[SIGNATURE PAGE TO FOLLOW]

LICENSOR:
City of Redondo Beach

By: _____

Name: _____

Title: _____

Date: _____

LICENSEE:
Crown Castle Fiber LLC

By: _____

Name: _____

Title: _____

Date: _____

Exhibit 1

System Description

Preliminary System Description.

(a) **Node Locations**. (described in more detail in **Exhibit 2** to this Order)

System Name	SCU#	Address
Redondo Beach Pier		100 West Torrance Boulevard Redondo Beach, CA 90277

(b) **Hub Site**. The Hub Site being licensed to Licensee will be located at Police Department Storage Room, 1000 West Torrance Boulevard, Redondo, Beach CA 90277 (described in more detail in **Exhibit 3** to this Order).

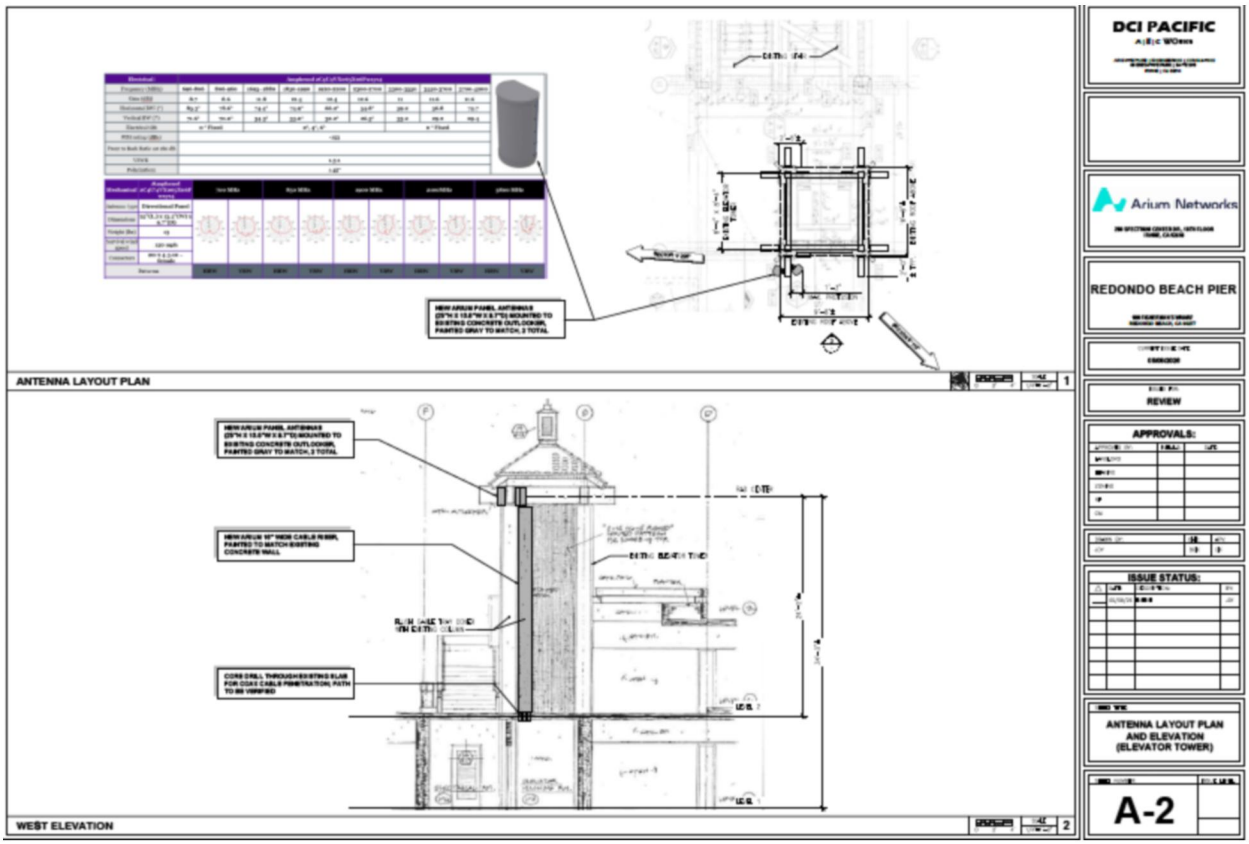
(c) **Fiber Network**. A schematic drawing of the Fiber Network is attached as **Exhibit 4** to this Order.

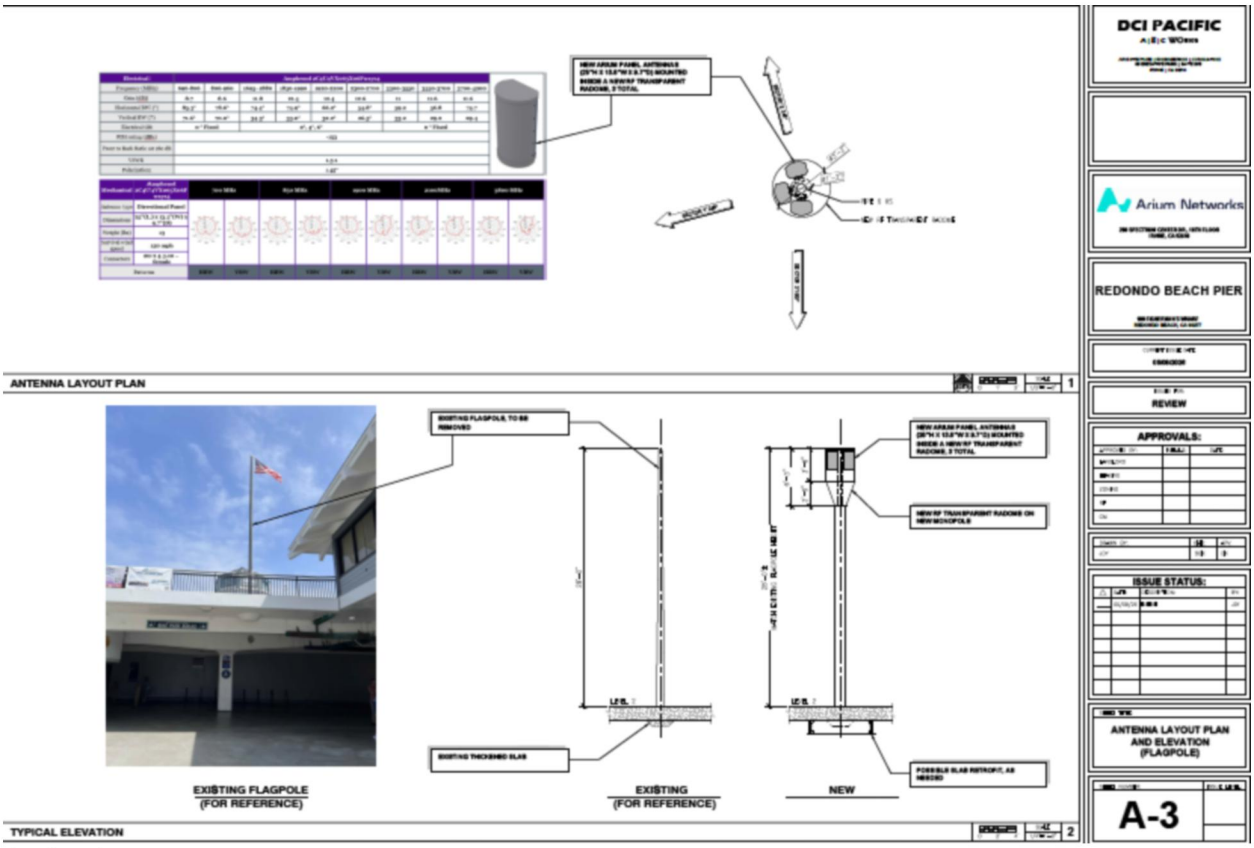
(d) **Conduit**. Licensor's conduit locations will be as more particularly described on the schematic drawing of the Fiber Network is attached as **Exhibit 5** to this Order.

Exhibit 2

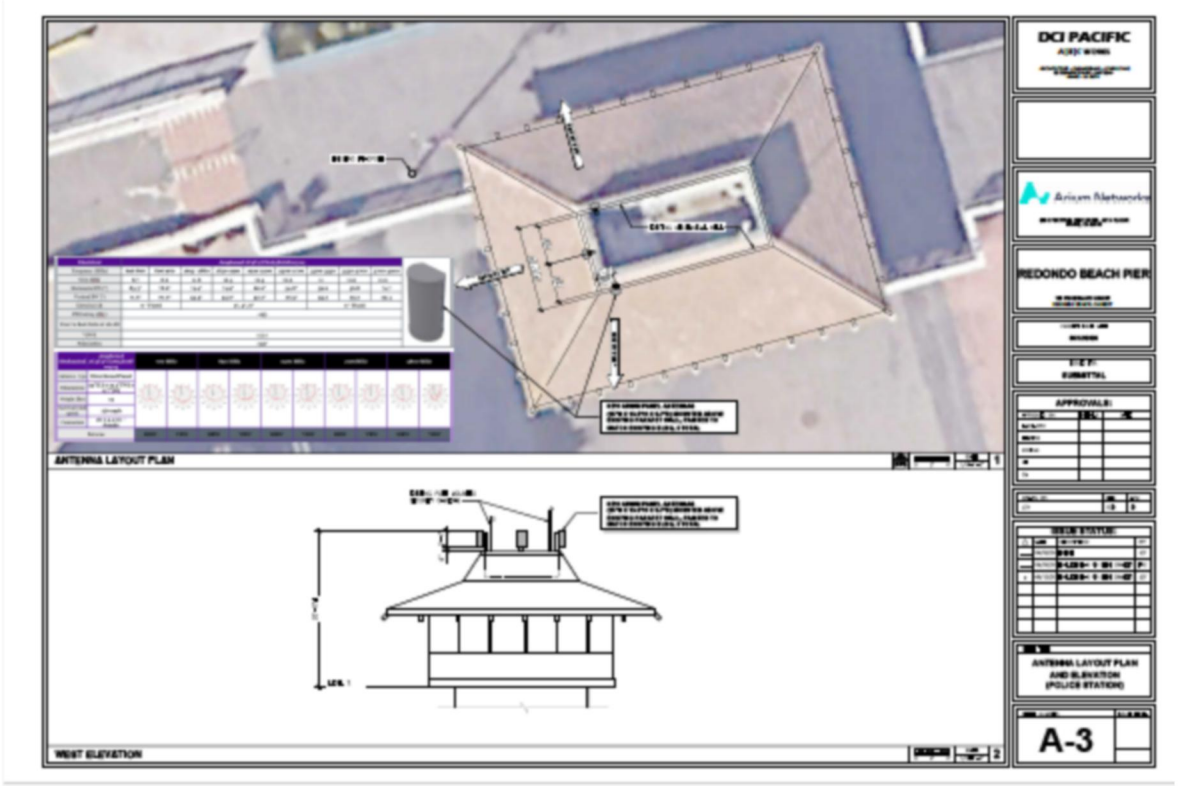
Site Location

Node Locations


ANTENNA LAYOUT PLAN
WEST ELEVATION
DCI PACIFIC
Arium Networks
REDONDO BEACH PIER
REVIEW
APPROVALS:
ISSUE STATUS:
ANTENNA LAYOUT PLAN AND ELEVATION (ELEVATOR TOWER)
A-2


ANTENNA LAYOUT PLAN
TYPICAL ELEVATION
EXISTING FLAGPOLE
(FOR REFERENCE)
EXISTING
(FOR REFERENCE)
NEW
DCI PACIFIC
Arium Networks
REDONDO BEACH PIER
REVIEW
APPROVALS:
ISSUE STATUS:
ANTENNA LAYOUT PLAN
AND ELEVATION
(FLAGPOLE)
A-3

Option A

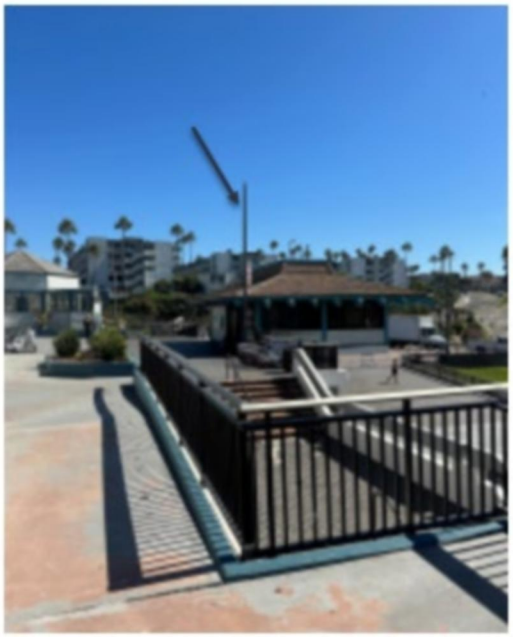

DCI PACIFIC
REDONDO BEACH PIER
ANTENNA LAYOUT PLAN
WEST ELEVATION
A-3

Option B

For the A-3 Node Locations depicted on Option A and Option B above, the final location will be determined based upon any needed structural analysis and zoning requirements.

ANT-1 Node Location

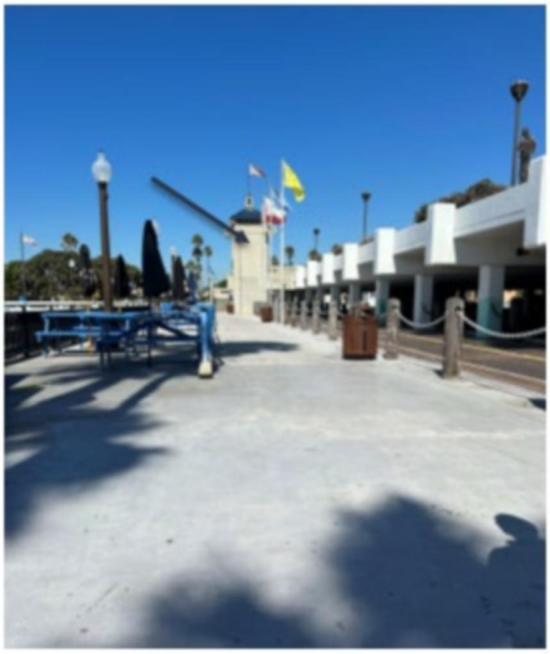
- AGL 40ft
- Multi-Operator Solution
- Provide coverage/capacity to Pier and Vicinity



CROWN CASTLE

ANT- 2 Node Location

- AGL 40ft
- Multi-Operator Solution
- Provide coverage/capacity to Parking Garage and Pier Area



CROWN CASTLE

Example:
Small Cell Pole Type

CROWN CASTLE

Equipment

Specification	Ericsson 4449 B5/B12
Band(s)	700/850
Output power	4 x 40W
Power consumption	1190 W
Physical dimensions	18" (height) x 13.2" (width) x 9.4" (depth)
Power supply	-48 VDC or external (100-250)VAC power supply unit
Weight	70 lbs.
Connectors	4 x 4.3-10-female

Specification	Ericsson 8843 B2, B66A
Band(s)	1900, 2100
Output power	8 x 40W
Power consumption	1220 W
Physical dimensions	14.96" (height) x 13.19" (width) x 11.1" (depth)
Power supply	-48 VDC or external (100-250)VAC power supply unit
Weight	75 lbs.
Connectors	8 x 4.3-10-female

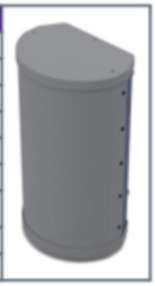
Specification	Ericsson 4467
Band(s)	N77D (C-Band) /N77G
Output power	4 x 40W
Power consumption	
Physical dimensions	18.8" (height) ,14.5" (width) ,6.1" (depth)
Power supply	-48 VDC or external (100-250)VAC power supply unit
Weight	53 lbs
Connectors	4 x 4.3-10 DIN-female

Specification	Ericsson 4415
Band(s)	PCS, WCS
Output power	4 x 40W
Power consumption	670 W
Physical dimensions	16.5" (height) ,13.4" (width) ,5.9" (depth)
Power supply	-48 VDC or external (100-250)VAC power supply unit
Weight	44 lbs
Connectors	4 x 4.3-10-female

Specification	Ericsson 4426
Band(s)	AWS
Output power	
Power consumption	670 W
Physical dimensions	14.96" (height) ,13.19" (width) ,5.8" (depth)
Power supply	-48 VDC or external (100-250)VAC power supply unit
Weight	48.4 lbs
Connectors	4.3-10-female

Antenna Specifications – Selected for Proposed Node Designs (All low and mid bands supported)

Electrical	Amphenol 2C4U4VX065X06Fwxys4								
Frequency (MHz)	696-806	806-960	1695–1880	1850-1990	1920-2200	2300-2700	3300-3550	3550-3700	3700-4200
Gain (dBi)	8.7	8.6	11.8	12.4	12.4	12.6	11	11.6	11.6
Horizontal BW (°)	85.3°	78.6°	74.4°	74.9°	66.2°	54.8°	59.2	56.8	74.7
Vertical BW (°)	71.6°	70.0°	34.3°	33.0°	32.2°	26.5°	33.2	29.2	29.4
Electrical tilt	0 ° Fixed		2°, 4°, 6°				0 ° Fixed		
PIM rating (dBc)	-153								
Front to Back Ratio at 180 dB									
VSWR	1.5:1								
Polarization	±45°								



Mechanical	Amphenol 2C4U4VX065X06Fwxys4	700 MHz		850 MHz		1900 MHz		2100MHz		3800 MHz	
Antenna type	Directional Panel										
Dimensions	25"(L) x 13.5"(W) x 9.7"(D)										
Weight (lbs)	13										
Survival wind speed	150 mph										
Connectors	20 x 4.3-10 – female										
Patterns		HBW	VBW	HBW	VBW	HBW	VBW	HBW	VBW	HBW	VBW

Antenna Specifications – Other Options

Electrical	JMA DX24FRO265-04								
Frequency (MHz)	698-798	824-894	880-960	1695-1880	1850-1990	1920-2180	2300-2400	2496-2690	3400-3700	3700-4200
Gain (dBi)	7	7.1	7.4	9.8	10.1	10.8	11.1	11.7	14	13.7
Horizontal BW (°)	72	74	75	66	65	62	59	57	52	56
Vertical BW (°)	78	73	65	46	44	39	37	33	21	22
PIM rating (dBc)	-153									
VSWR	1.5:1									
Polarization	XXX-pol (+/- 45°)									

Mechanical	JMA DX24FRO265-04	700		2100	
Antenna type	Directional Panel				
Dimensions	24" (h) x 14.2" (l) x 8.5" (d)				
Weight (lbs)	22				
Survival wind speed	150 mph				
Connectors	24 x 4.3-10 Female				
Patterns		HBW	VBW	HBW	VBW

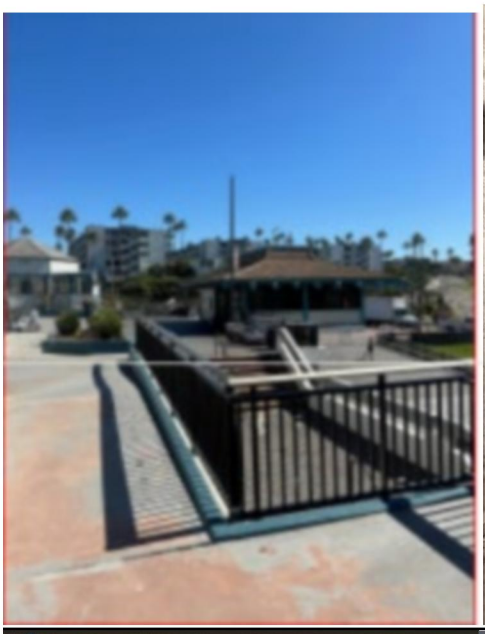
Antenna Specifications – Other Options

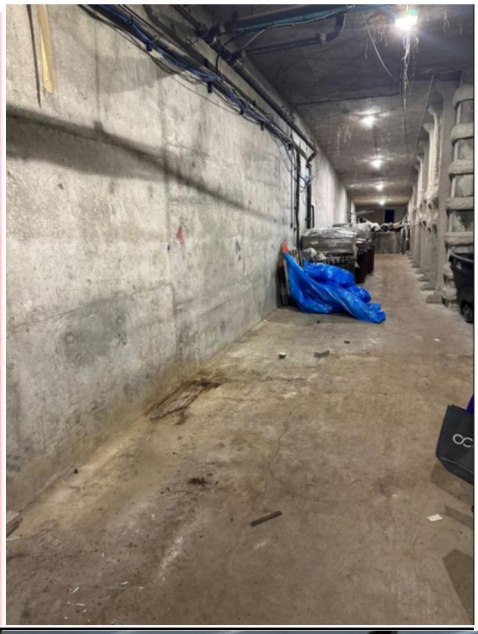
Electrical	Amphenol 2C6U2VT360X06Fwxys4						
Frequency (MHz)	696-806	806-960	1695-1880	1850-1990	1920-2200	2300-2700	3300-4200
Gain (dBi)	5.1	5.6	6.6	6.7	7.1	8.2	10.6
Horizontal BW (°)	360	360	360	360	360	360	360
Vertical BW (°)	75.1	71.3	38.4	36.8	36.8	30.5	18.7
PIM rating (dBc)	< -153						
VSWR	≤ 1.5:1						
Polarization	±45						

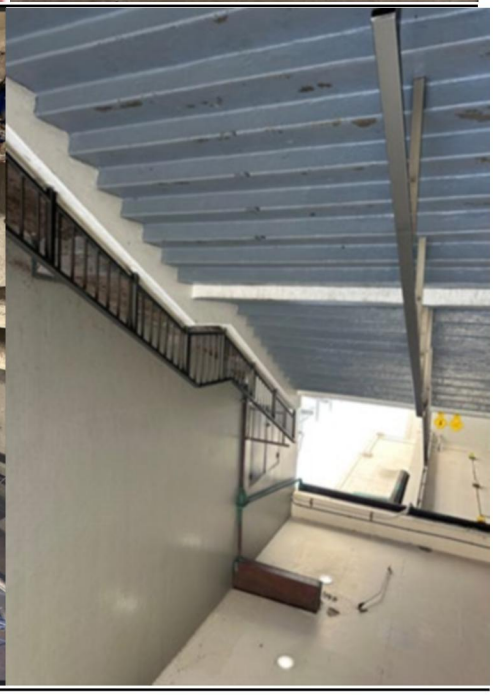
Mechanical	Amphenol 2C6U2VT360X06Fwxys4	700 MHz		2100 MHz	
Antenna type	Omni Antenna				
Dimensions (in)	24.0" x 14.6" (Height x Diameter)				
Weight (lb)	28.0 lbs				
Survival wind speed	150 mph				
Connectors	20 x 4.3-10 female				
Patterns		HRW	VRW	HRW	VRW

Exhibit 3

Hub Site







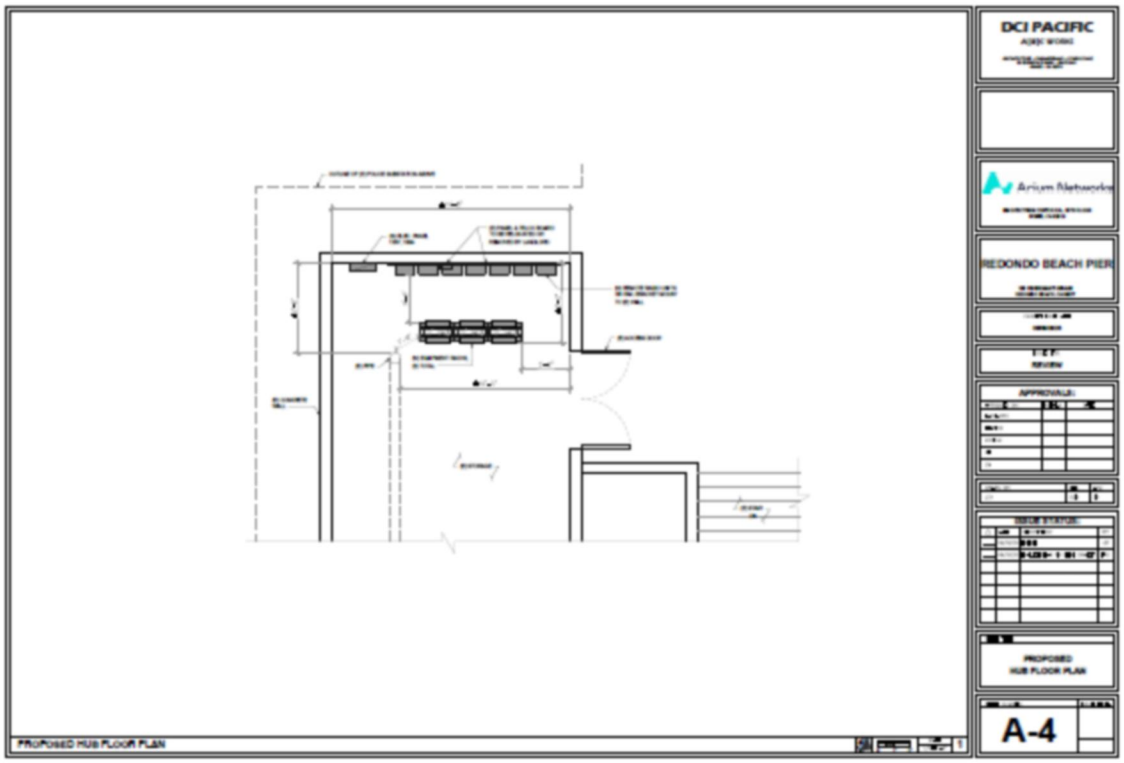

DCI PACIFIC
REDONDO BEACH PIER
A-4

Exhibit 4

Fiber Network

N/A

Exhibit 5

Conduit

N/A