## AMENDMENT NO. \_1\_TO WIRELESS COMMUNICATIONS SITE LICENSE AGREEMENT

This Amendment No. 1\_ to Wireless Communications Site License Agreement(this "Amendment"), effective as of the date last signed below ("Effective Date"), amends a certain License between Sprint PCS Assets, L.L.C., a Delaware limited liability company ("Licensee"), and CITY OF HERMOSA BEACH ("Licensor"), dated November 12, 2003 [agreement date]

## BACKGROUND

WHEREAS, Tenant desires to expand the Site by approximately 25 square feet of space in order to provide for additional facilities to be installed at the Site.

WHEREAS, Licensee desires to modify its installation on the Site by adding or swapping out antennas and other equipment to the Facilities, as more particularly described in Exhibit A-3 annexed hereto, and Licensee and Licensor desire to modify the provisions of the Agreement as provided below.

# **AGREEMENT**

For good and valuable consideration, the receipt and sufficiency of which are acknowledged, Licensor and Licensee agree as follows:

- 1. <u>Premises and Use</u>. Section 1 of the Agreement is deleted in its entirety and replaced by the following:
  - a. Licensor owns the real property located in the City of Hermosa Beach, County of Los Angeles, which is described in Exhibit A-1 attached hereto and incorporated herein by this reference ("Land"). Subject to the following terms and conditions, Licensor grants to Licensee a non-exclusive right to use approximately 315 square feet of the Land, including applicable non-exclusive easements for site access and utilities as described and/or shown in Exhibit A-2 and A-3 attached hereto and incorporated herein by this reference ("Premises"), to erect, maintain and operate mobile/wireless communication facilities.
  - b. Licensee acknowledges that Licensor will deliver the Premises in "as is" condition, without warranty, express or implied, as to its condition or usability, except as otherwise expressly set forth in this Agreement.
- 2. <u>Modification to the Site</u>. Exhibit A-2 to the Agreement is hereby amended to include the modifications identified on Exhibit A-3, a copy of which is attached and made a part hereof. Exhibit A-3 supplements Exhibit A-2 to the Agreement and shall not be deemed to supersede or otherwise modify Exhibit A-2 or any part thereof except to the extent specifically set forth in Exhibit A-3. Upon full execution of this Amendment, Licensee is permitted to do all work necessary to prepare, maintain and alter the Site to install or otherwise modify the Site, all as more fully described and contemplated in Exhibit A-3.
- 3. <u>Modification to Rent</u>. Section 5 of the Agreement is amended to add a new Section 5(c) to read as follows:

As additional consideration for the modification and other rights set forth in this Amendment, starting on the date that is 30 days after the start of construction of the modifications to the Facilities, the monthly rent will be increased by \$250.00.

4. <u>Expiration or Termination of this Amendment</u>. If Licensee does not utilize the rights and entitlements provided in this Amendment, Licensee may terminate this Amendment effective as of the date of such written notice. After termination of this

Amendment, the terms and conditions of the Agreement as they existed immediately prior to the Effective Date of this Amendment shall be deemed reinstated, ratified and affirmed, and shall continue in full force and effect. After termination of this Amendment, Rent shall revert to the amount in effect immediately prior to the Effective Date of this Amendment, plus any rental increases, including annual escalators or rent increases due to other site modifications made by Licensee, which occurred during the period of time between the Effective Date of this Amendment and the termination date of this Amendment.

# 5. General Terms and Conditions.

a. All capitalized terms used in this Amendment, unless otherwise defined herein, will have the same meaning as the terms contained in the Agreement.

b. In case of any inconsistencies between the terms and conditions contained in the Agreement and the terms and conditions contained in this Amendment, the terms and conditions herein will control. Except as set forth herein, all provisions of the Agreement are ratified and remain unchanged and in full force and effect.

c. This Amendment may be executed in duplicate counterparts, each of which will be deemed an original.

d. Each of the parties represents and warrants that it has the right, power, legal capacity and authority to enter into and perform its respective obligations under this Amendment.

# \*\*\*SIGNATURES ON FOLLOWING PAGE\*\*\*

The parties have executed this Amendment as of the Effective Date.

Licensor: City of Hermosa Beach	<b>Licensee:</b> Sprint PCS Assets, L.L.C., a Delaware limited liability company					
Ву:	By:					
Printed Name:	Printed Name:					
Title:	Title:					
Date: (Date must be completed)	Date: (Date must be completed)					

# **EXHIBIT A-1**

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# **DESCRIPTION OF LAND**

The real property situated in Los Angeles County, State of California, particularly described as:

A PARCEL OF LAND IN THE CITY OF HERMOSA BEACH, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, BEING A PORTION OF LOT 29 BLOCK 14, OF HERMOSA BEACH, AS PER MAP RECORDED IN BOOK 1, PAGES 25 AND 26 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 29; THENCE SOUTH 12° 11' 09" EAST 95' ALONG THE EASTERLY LINE OF SAID LOT TO THE SOUTHEASTERLY CORNER THEREON; THENCE SOUTH 77° 26' 05" WEST 23.84' ALONG THE SOUTHERLY LINE OF SAID LOT; THENCE NORTH 12° 34' 44" WEST 95' TO A POINT ON THE NORTHERLY LINE OF SAID LOT; BEARING SOUTH 77° 26' 09" WEST 24.50' FROM THE NORTHEAST CORNER OF SAID LOT 29; THENCE NORTH 77° 26' 03" EAST 24.50' ALONG THE NORTHERLY LINE OF SAID LOT 70 THE POINT OF BEGINNING.

# Exhibit A-2

[see attached]



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# Exhibit A-3

[see attached]

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ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORTIES: NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2016 CALIFORNIA ADMINISTRATIVE CODE 2. 2016 CALIFORNIA BUILDING CODE 3. 2016 CALIFORNIA BUILDING CODE 4. 2016 CALIFORNIA BLUECTRIC CODE 5. 2016 CALIFORNIA FLURBING CODE 6. 2016 CALIFORNIA FLURBING CODE 6. 2016 CALIFORNIA FIRE CODE 7. ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE 8. CITY/COUNTY ORDINANCES HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 1103B.	- PAC LA57 1301 HEF HERMOSA BE	CIFICO XC302 RMOSA AVE EACH, CA 90255	DO NOT SCALE DRAWING: CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTI
PROPERTY OWNER:       THE CITY OF HERMOSA BEACH CIVIC CENTER, 1315 VALLEY DRIVE HERMOSA BEACH, CA. 90254 CONTACT: TOM BAKALY, CITY MANAGER PHONE: (310) 318-0201         SITE ADDRESS:       1301 HERMOSA AVE HERMOSA BEACH, CA 90255         GEOGRAPHIC COORDINATES:       LATITUDE: 33.86280555 * N (NAD 83)         LONGITUDE: -118.40133611* W (NAD 83)         APN:       4183-003-900         ZONING:       C2 RESTRICTED COMMERCIAL         JURISDICTION:       CITY OF HERMOSA BEACH         CONSTRUCTION TYPE:       N/A         OCCUPANCY:       N/A         CURRENT USE:       TELECOMMUNICATIONS FACILITY         NEW USE:       TELECOMMUNICATIONS FACILITY         NO. OF STORIES:       2         TRACT:       TR 4183         BLOCK / LOT:       19, 20, 21, 22, 23, AND 32	<ul> <li>FROM: SPRINT OFFICE, 6591 IRVINE CENTER DR, IRVINE, CA</li> <li>DEPART IRVINE CENTER DR TOWARD SAND CANYON AVE</li> <li>TURN LEFT ONTO SAND CANYON AVE</li> <li>TAKE RAMP RIGHT AND FOLLOW SIGNS FOR I-405 NORTH</li> <li>KEP LEFT TO STAY ON I-405 N</li> <li>AT EXIT 40, TAKE RAMP RIGHT FOR CA-91 TOWARD CULTURAL ARTS COLLEGE / DEL AMO / HERMOSA BEACH / PRAIRIE AVE / REDONDO BEACH / TORRANCE</li> <li>TURN RIGHT ONTO CA-1 / PACIFIC COAST HWY</li> <li>TURN RIGHT ONTO MAINTATIA AVE</li> <li>TURN RIGHT ONTO MAINTATIA AVE</li> <li>TURN LEFT ONTO 14TH ST</li> <li>TURN LEFT ONTO HERMOSA AVE</li> <li>ARRIVE AT 1301 HERMOSA AVE, HERMOSA BEACH, CA 90254</li> </ul>	SPRINT PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING ON THE FOLLOWING: REMOVE CASISTING SINGLE BAND ANTENNAS REMOVE EXISTING FAP CANISTER REMOVE EXISTING BATTERY CABINET REMOVE EXISTING BATTERY CABINET INSTALL SCREEN BOX INSTALL (3) 2.5 RRH INSTALL (3) 600 RRH INSTALL COUPMENT CABINET INSTALL BATTERY CABINET INSTALL BATTERY CABINET INSTALL NEW 8' HIGH CHAIN-LINK ENCLOSURE W/ TOPPER	THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DISCREPANCIES BEFORE PROCEEDING WITH THE WOR         GENERAL CONTRA         SHEET         T-1       TITLE SHEET         T-2       GENERAL NOTES, ABBREVIATIONS AND LEGE         T-3       GENERAL CONSTRUCTION NOTES         A-1       SITE PLAN         A-2       EXISTING ROOF PLAN         A-3       EXISTING EQUIPMENT LAYOUT         A-3.1       NEW EQUIPMENT LAYOUT         A-4       EXISTING AND NEW ANTENNA PLANS AND AND
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DC F	FACE OF CONCRETE	TOC	ТС
DM F	FACE OF MASONRY	TOF	ТС
DS F	FACE OF STUD	TOP	тс
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INT	INTERIOR
LB(S)	POUND(S)
LF	LINEAR FEET
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MIN	
MISC	MISCELLANEOUS
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
(N)	NFW
NEC	NATIONAL ELECTRIC CODE
NO.(#)	NUMBER
NTS	NOT TO SCALE
oc	ON CENTER
OPNG	OPENING
(P) NEW	
P/C	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION SERVICES
PCU	PRIMARY CONTROL UNIT
PRC	PRIMARY RADIO CABINET
PP	POLARIZING PRESERVING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PWR	POWER CABINET
QTY	QUANTITY
RAD	RADIUS
RECI	RECIFIER
	REINIORCEMENT
REQU	
RMC	RIGID METALLIC CONDUIT
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
RWY	RACEWAY
SCH	SCHEDULE
SHT	SHEET
SIAD	SMART INTEGRATED DEVICE
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STU	STANDARD
STRUCT	STRUCTURAL
TEMP	TEMPORARY
THK	THICKNESS
TMA	TOWER MOUNTED AMPLIFIER
TN	TOE NAIL
TOA	TOP OF ANTENNA
тос	TOP OF CURB
TOF	TOP OF FOUNDATION
TOP	TOP OF PLATE (PARAPET)
TOS	TOP OF STEEL
TOW	TOP OF WALL
TVSS	TRANSIENT VOLTAGE SUPPRESSION SYSTEM
IYP	TYPICAL
UG	
UMTS	
01110	SYSTEM
UPS	UNINTERRUPTIBLE POWER SYSTEM
	(DC POWER PLANT)
VIF	VERIFIED IN FIELD
w	WIDE
w/	WITH
WD	WOOD
W.P.	WORK POINT
WP	WEATHERPROOF
WΤ	WEIGHT

## GENERAL SITE WORK & DRAINAGE NOTES:

### PART 1 - GENERAL

APPLICANT: Sprint CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE NEW WORK SHOWN IN THESE PLANS. A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT 6591 IRVINE CENTER DRIVE SUITE 100 EDITION). **IRVINE, CA 92618** B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS). C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION) ENGINEER 1.2 INSPECTION AND TESTING: A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR. Eukon B. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT. 65 POST, SUITE 1000 **IRVINE, CA 92618** TEL: (949) 553-8566 A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE www.eukongroup.com SUBCONTRAC B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING RAWN BY TC/EL/CB/JA DAMAGED BY THE WORK. CHECKED BY .IA C. KEEP SITE EREE OF ALL PONDING WATER. D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS. REVISIONS E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK. F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED. 1. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE. 3 01/10/19 DRM COMMENTS 2 08/19/19 PER SITE WALK 2.1 SUITABLE BACKFILL: ASTM D2321 (CLASS I, II, III OR IVA) FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE LARGER THAN . FOR BACKFILL. 1 07/09/19 REDESIGN 0 12/13/17 100% CONSTRUCTION DRAWN 2.2 NON-POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS III, IVA OR IVB) COARSE AGGREGATE. FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL. A 10/30/17 90% CONSTRUCTION DRAWING REV DATE DESCRIPTION 2.3 POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS IA, IB OR II) COARSE AGGREGATE FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL. LICENSER 2.4 SELECT STRUCTURAL FILL: GRANULAR FILL MATERIAL MEETING THE REQUIREMENTS OF ASTM E850-95. FOR USE AROUND AND UNDER STRUCTURES WHERE STRUCTURAL FILL MATERIAL ARE REQUIRED. 2.5 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM). 2.6 COARSE AGGREGATE FOR ACCESS ROAD SUBBASE COURSE SHALL CONFORM TO ASTM D2940. 2.7 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL. EXP. DATE: 12-31-21 2.9 PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALL RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR PLASIIC MARKING INFE: SHALL BE AND AND ALXALI RESISTANT POLTEINTLENE TILM SPECIFICALLT MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTLINES, 6 INCHESS WIDE WITH A MINIMUM THICKNESS OF 0.004 INCH. TAPE SHALL HAVE MINIMUM STRENCTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL CONDUCTORS, FOIL BACKING OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3 FEET DEEP. THE METALLIC CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR PROVIDED WITH OTHER MEANS TO DATE SIGNED: 10-23-18 METALLIC CORE OF PROTECT IT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION PROJECT INFORMATION: UTILITIES PART 3 - EXECUTION PACIFICO A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ANY TIME. B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK. LA57XC302 C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED. 1301 HERMOSA AVE HERMOSA BEACH, CA 90255 REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS. SHEET TITLE EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL. GENERAL NOTES. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED. ABBREVIATIONS & LEGEND PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE NEW CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS. SHEET NUMBER C. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

### 1.1 REFERENCES:

### 1.3 SITE MAINTENANCE AND PROTECTION:

### PART 2 - PRODUCTS

- 2.8 GEOTEXTILE FABRIC: MIRAFI 500X OR ENGINEERED APPROVED EQUAL.

- 3.1 GENERAL:

LEGEND

ABBREVIATIONS

GENERAL NOTES

## GENERAL CONSTRUCTION NOTES:

OWNER - VERIZON

- GENERAL CONSTRUCTION 1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY: GENERAL CONTRACTOR CONTRACTOR: (CONSTRUCTION)
- 2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND VERIZON PROJECT SPECIFICATIONS
- GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE NEW WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, 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 ENGINEER PRIOR TO THE COMMENCEMENT OF WORK
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RUELES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY 5. SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES ORDINANCES AND APPLICABLE REGULATIONS
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A LARIFICATION REMARK DUCENTIAL DUCENTRACT DUCENTRACT
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
- 10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- 11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- 13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- 14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNER CONSTRUCTION. BEGINNING CONSTRUCTION.
- 15. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 16. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- 17. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- 20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION. 21.
- 22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL ALL EASTING ACIVE SENER, WHEN, GAS, ELECTION, AND CHEEN CHILLIES FAUL BE FRUCTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTLITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
- 23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POI WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE POINTS ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- 24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- 25. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL
- 26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- 27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- 28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- 29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT
- CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.

- 31. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- 32. THE NEW FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- 33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY VERIZON TECHNICIANS.
- 34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE NEW.
- 35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION VERIZON MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- 36. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- 37. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 39. NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS
- 40. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. ANTENNA MOUNTING
- 41. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
- 42. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
- 43. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE". UNLESS NOTED OTHERWISE
- 44. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM
- 45. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS
- 46. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
- 47. ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
- 48. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE RFDS, REFER TO ND-00246
- 49. JUMPERS FROM THE TMA'S MUST TERMINATE TO OPPOSITE POLARIZATION'S IN EACH SECTOR.
- 50. CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO VERIZON.
- 51. TMA'S SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION
- 52. ANTENNAS SHALL HAVE A 4'-O" MIN CENTER TO CENTER HORIZONTAL SEPARATION.

TORQUE REQUIREMENTS

- 53. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
- ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK NSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION. A RE CONNECTION BOTH SIDES OF THE CONNECTOR
- B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL
- 55. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-ET (12 NM).
- 56. ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NM).
- 57. ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
- 58. ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4 29.8 NM).
- 59. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7 2.3 NM).
- FIBER & POWER CABLE MOUNTING
- 60. THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.
- 61. THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION; WHERE TYPE TO-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVING UTILIZATION EQUIPMENT OR DEVICES, A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
- 62. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS. NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY

- 67

					APPLICANT:
DAXIAL	CABLE NOTES				
3. TYP CAB PRC	ES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING LE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE JECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.			Sn	rint 🎽
2. CON	TRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.			P	
3. CON LAB	TRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM ELING STANDARD" ND-00027 LATEST VERSION.		659		CENTER DRIVE SUITE 100
+. ALL NOT	JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE SHALL BE 1/2 DIA. LDF AND SHALL EXCEED 6'-0".			IIXV	NINE, CA 92010
5. ALL MAN	COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED NER, AT DISTANCES NOT TO EXCEED $4^{1}-0^{\circ}$ OC.				ENGINEER:
5. CON AND	TRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.				ukon
7. CON WEA	TRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. THERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH VERIZON STANDARDS.			an SFC Comn	nunications, Inc. Company
ENERA	_ CABLE AND EQUIPMENT NOTES			65 P(	OST, SUITE 1000
3. CON MAK	TRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, E AND MODELS PRIOR TO INSTALLATION.			TEI	.: (949) 553-8566
9. ALL MAN	CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER UFACTURER'S RECOMMENDATIONS.			www	.eukongroup.com
D. CON CAB	TRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON LE DISTRIBUTION/ROUTING.		DRA CHE	WN BY: CKED BY:	TC/EL/CB/JAR JAR
I. ALL USIN MINI THR ALL	OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, IG BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED EE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT DWED.		Ē		REVISIONS:
2. IF F A. T B. P C. F D. D	EQUIRED TO PAINT ANTENNAS AND/OR COAX: EMPERATURE SHALL BE ABOVE 50°F. AINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD. OR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED. O NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.				
3. ALL MAN	CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUND KITS. FOLLOW THE UFACTURER'S RECOMMENDATIONS. . GROUNDING AT THE ANTENNA LEVEL.		7	01 /10 /10	
B	. GROUNDING AT MID LEVEL, TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.		2	08/19/19	PER SITE WALK
	. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL. . GROUNDING OUTSIDE THE EQUIPMENT SHEITER AT ENTRY PORT. . CROUNDING INSIDE THE EQUIPMENT SHEITER AT THE ENTRY PORT.		1	07/09/19	REDESIGN
L I. ALL	NEW GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR		0	12/13/17	100% CONSTRUCTION DRAWING
DOW CON	NLEADS A MINIMUM DISTANCE OF $4'-0$ " BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR PRESSION.		A REV	DATE	DESCRIPTION
5. THE THE	CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANTENNA AND THE COAX CONFIGURATION IS CORRECT MAKE AND MODELS, PRIOR TO INSTALLATION.				
5. ALL MAN	CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER				
7. ANT APP	ENNA CONTRACTOR SHALL FURNISH AND INSTALL A 12'-0" T-BOOM SECTOR ANTENNA MOUNT, IF LICABLE, INCLUDING ALL HARDWARE.				ROFESSION
<u>STA</u>	TEMENT OF SPECIAL INSPECTIONS			1	Sed CURIS S. ( AR PER
NO.	DESCRIPTION OF TYPE OF INSPECTION REQUIRED LOCATION, REMARKS,	FREQUENCY			2 76549 5
1.	POST INSTALLED CONCRETE ANCHORS: (SEE SHEET A-5, DETAIL 7)			1	CIVIL OF CALLS
	ADHESIVE AND EXPANSION ANCHORS IN CONCRETE OR MASONRY, HILTI KWIK BOLT TZ EXPANSION ANCHOR, PER ICC REPORT ESR-1917	PERIODIC		E	KP. DATE: 12-31-21
	ADHESIVE AND EXPANSION ANCHORS IN CONCRETE OR MASONRY, INSPECTOR SHALL VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS,				
	CONCRETE TITE, INCOMESS AND COMPRESSIVE STRENGTH, HOLED DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE.			DA	ATE SIGNED: 10-23-18
SPECIA	L INSPECTION NOTES: SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE		Ē	PRC	DJECT INFORMATION:
2. COI SPECIF PERFO CONTIN RESPO	TINUOUS INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE IED. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE UJOUSLY OBSERVED IN ACCORDANCE WITH THE PROVISIONS OF CBC SECTION 1704, IT IS THE AGENT'S NSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT ALL THE WORK IS SUCH ACCORDANCE WITH THE DEOWSTONES			P	ACIFICO
3. THE	SPECIAL INSPECTORS MUST BE CERTIFIED BY THE AUTHORITY HAVING JURISDICTION, IN THE CATEGORY OF REFOURED TO HAVE SPECIAL INSPECTION			LA	57XC302
4. IT I	S THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY ST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.			130 HERMOS	)1 HERMOSA AVE SA BEACH, CA 90255
5. NO PERMIT ACKNO YOU A NSPEC BUILDI	TICE TO THE CONTRACTOR/BUILDER/INSTALLER/SUB-CONTRACTOR/ OWNER-BUILDER: BY USING THIS TED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU WILEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. GREE TO COMPLY WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION FOR SPECIAL TIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF VG COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE				
5. THE	CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE AUTHORITY HAVING ICTION, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENTS.				NSTRI ICTIONI NOTES &
7. WO NPSEC	RK REQUIRING SPECIAL INSPECTION THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY TOR IS SUBJECT TO REMOVAL OR EXPOSURE AT NO COST TO THE GOVERNING JURISDICTION.		ULI	SPF(1)	AL INSPECTIONS
B. FAE	RICATOR MUST BE REGISTERED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION FOR THE			0, 200	
ABRIC	ATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP.				SHEET NUMBER:
				r	' <b>2</b>



APPLICANT:						
6591 IRVINE CENTER DRIVE SUITE 100 IRVINE, CA 92618						
ENGINEED						
ENGINEER:						
65 POST, SUITE 1000 IRVINE, CA 92618 TEL: (949) 553-8566						
DRAWN BY: TC/EL/CB/JAR						
CHECKED BY: JAR						
REVISIONS:						
3 01/10/19 DRM COMMENTS						
2 08/19/19 PER SITE WALK						
1 07/09/19 REDESIGN						
0 12/13/17 100% CONSTRUCTION DRAWING						
A 10/30/17 90% CONSTRUCTION DRAWING						
REV DATE DESCRIPTION						
LICENSER:						
EXP. DATE: 12-31-21						
PROJECT INFORMATION:						
PACIFICO LA57XC302 1301 HERMOSA AVE HERMOSA BEACH, CA 90255						
SHEET TITLE:						
SITE PLAN						
SHEET NUMBER:						
A-1						



APPLICANT:						
6591 IRVINE CENTER DRIVE SUITE 100 IRVINE, CA 92618						
ENGINEER:						
an SFC Communications, Inc. Company 65 POST, SUITE 1000 IRVINE, CA 92618 TEL: (949) 553-8566 www.eukongroup.com						
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ENOJECT INFORMATION:						
PACIFICO						
LAS/XC302						
1301 HERMOSA AVE						
HERMUSA BEACH, CA 90255						
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A-2						





EXISTING EQUIPMENT LAYOUT







# NOTES TO CONTRACTOR

- 1. CONTRACTOR IS TO REFER TO SPRINT'S MOST CURRENT RF DESIGN PRIOR TO CONSTRUCTION.
- 2. CABLE LENGTHS WERE DETERMINED BASED ON A VISUAL INSPECTION DURING SITE WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
- 3. CONTRACTOR TO USE MANUFACTURER'S FIBER LINE HANGER COMPONENTS (OR ENGINEER APPROVED EQUAL).
- 4. CONTRACTOR TO USE CABLES SPECIFIED (OR ENGINEER APPROVED EQUAL).

							ANTEN	INA AND F	RH SCHEE	ULE										
		TECH	NOLOGY	ANTENI	NA TYPE	ANTEN	INA SIZE		RAD CENTER		EXISTING TRANSMISSION CABLE			NEW TRANSMISSION CABLE			BLE	RRH	MODEL	
SECTOR	POSITION	EXISTING	FINAL	EXISTING	FINAL	EXISTING	FINAL		EXISTING	FINAL	LENGTH	QTY.	TYPE	DIA. Ø	LENGTH	QTY.	TYPE	DIA. Ø	EXISTING	
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	1	1900	2.5/800/1900	APXVSPP18-C	ALPHA AW3631	-	78″L × 14.2″ø	140*	±43'-6"	±43'-6"	170'	3	COAX	V.I.F.	170'	6	COAX	7/8 <b>"</b> ø	1900 RRH	(2) 2. 190
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	1	1900	2.5/800/1900	APXVSPP18-C	ALPHA AW3631	-	78"L x 14.2"ø	240*	±43'-6"	±43'-6"	170'	1	COAX	V.I.F.	170'	6	COAX	7/8"ø	1900 RRH	(2) 2. 190
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\* V.I.F. = VERIFY IN FIELD

EXISTING LIGHT POLE NEW SPRINT 14.2"Ø TRI-SECTOR ANTENNA		ENGINEER: ENGINEER:						
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SCALE 6"		<ul> <li>Image: Construction drawing</li> <li>Construction drawing</li> <li>Construction drawing</li> <li>Construction drawing</li> <li>Construction drawing</li> </ul>						
		REV DATE DESCRIPTION						
		LICENSER:						
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00 RHH RRH – RRH	-							
	-	SHEET TITLE:						
	-	EXISTING /NEW ANTENNA						
1		PLANS & ANTENNA / RRH SCHEDULE sheet number:						
	SCALE	$\parallel A-4$						
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### GENERAL NOTES

### ALL TRADES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST CALIFORNIA BUILDING CODE WITH AWENDMENTS AS ADOPTED BY THE LOCAL JURISDICTIONS, AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS WHICH ARE PROVIDED SEPARATELY.

2. BUILDING SHALL NOT BE OCCUPIED DURING REMODEL WORK WHERE: (A) THE BUILDING STRENGTH IS SUBSTANTIALLY WEAKENED AT ANY POINT DURING THE REMODEL WORK. (B) REQUIRED EXITS ARE NOT AVAILABLE OR ARE OBSTRUCTED. (C) REQUIRED FIRE SAFETY DEVICES SUCH AS SPRINKLERS, STAND PIPE OR ALARM SYSTEMS ARE NOT OPERATIONAL.

3. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY PROJECT ENGINEER OF RECORD.

4 CONCRETE MASONRY AND STRUCTURAL STEEL WORK SHALL BE INSPECTED BY AN INSPECTOR LICENSED BY THE LOCAL JURISDICTION.

5. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOOR OR ROOF. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD WHICH IS:

FLOORS 50 PSF (REDUCIBLE) ROOFS 20 PSF (REDUCIBLE)

6. CONTRACTOR SHALL ERECT NECESSARY BARRIERS, PROTECTION FENCES AND/OR CANOPIES PRIOR TO STARTING CONSTRUCTION.

7. NECESSARY PERMITS SHALL BE SECURED PRIOR TO STARTING CONSTRUCTION.

8. WORKMANSHIP SHALL NOT CAUSE DAMAGE TO EXISTING CONSTRUCTION.

9. ALL DEBRIS SHALL BE REMOVED FROM SITE, LEAVING THE SITE DAILY IN A BROOM-CLEAN CONDITION.

10. THE CONTRACTOR SHALL EXERT EVERY EFFORT TO PREVENT DUST AND CONSTRUCTION DEBRIS FROM CONTAMINATING THE WORK AREA. THESE EFFORTS SHALL INCLUDE BUT NOT BE LIMITED TO PROVIDING A DAILY CLEANUP OF THE CONSTRUCTION AREA AND PROVIDE PLASTIC SHEETING OVER EXISTING EQUIPMENT IF ANY. CONTRACTOR SHALL REFER TO THE PROJECT DETAILED SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL DECLIPENT ADDITIONAL REQUIREMENTS

11. PATCH, REBUILD AND RESTORE CEILINGS, PARTITIONS, PLASTER, PAINT, FINISHES, ETC. DAMAGED OR DEMOLISHED DURING CONSTRUCTION ACTIVITY, REFINISH SURFACES TO MATCH ADJACENT FINISH. FOR CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION OR NATURAL BREAK. FOR AN ASSEMBLY, REFINISH ENTIRE UNIT. RESTORE WORK WITH NEW PRODUCTS.

12. PROVIDE PROTECTION FROM WEATHER AND DUST TO AREAS EXPOSED DUE TO CUTTING AND UNCOVERING OF EXISTING SURFACES.

13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK.

14. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF EUKONGROUP BEFORE PROCEEDING WITH THE WORK INVOLVED.

15. SHOP DRAWINGS ARE NOT AUTOMATICALLY REQUIRED FOR APPROVAL BY THE ENGINEER OF RECORD UNLESS SPECIFICALLY NOTED AS REQUIRED. THIS DOES NOT PRECLUDE THAT OTHERS, SUCH AS THE CLIENT OR CONSTRUCTION MANAGEMENT MAY REQUIRE SOME FORM OF SHOP DRAWINGS SHOP DRAWINGS.

16. REVIEW OF SHOP DRAWINGS BY STRUCTURAL ENGINEER IS ONLY FOR GENERAL CONFORMANCE WITH THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS AND SHALL NOT BE CONSTRUED AS ACCEPTING RESPONSIBILITY FOR SAFE CONSTRUCTION PRACTICES.

17. SHOP DRAWINGS ARE AN AID FOR THE FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS. THE CONTRACTOR'S RESPONSIBILITY ALSO INCLUDES BUT IS NOT LIMITED TO DIMENSIONS BEING CONFIRMED AND CORRELATED AT THE JOB SITE. FLUKONGROUP SHALL BE NOTIFIED IN WRITING IF ANY DISCREPANCIES ARE FOUND.

18. NO CHANGES SHALL BE MADE TO THE DESIGN, UNLESS APPROVED 18. NO CHANGES SHALL BE MADE TO THE DESIGN, UNLESS APPROVEL BY THE ENGINEER OF RECORD. DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE REQUESTED IN WRITING PRIOR TO SUBMITTING SHOP DRAWINGS. APPROVED DEVATIONS SHALL BE CLEARLY HIGHLIGHTED ON SHOP DRAWINGS SUBMITTED FOR REVIEW.

19. USE OF AN APPROVED ALTERNATE MATERIAL UNDER AN ICBO MUST INCORPORATE ALL THE SPECIFIED PROCEDURES, CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION INSTRUCTIONS ON THE PLANS.

20. THE OWNER SHALL RETAIN THE SERVICES OF A TESTING LABORATORY AND INSPECTION AGENCY AS SPECIFIED HEREIN AND AS REQUIRED BY THE CBC.

1. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR - LARCH #1 GRADE MARKED BY A RECOGNIZED GRADING AGENCY (WCLA, WWPA, OR WCLIB), UNLESS NOTED OTHERWISE.

2. PLYWOOD SHEATHING SHALL BE DOUGLAS FIR CONFORMING TO THE LATEST "PRODUCT STANDARD PS1", AND SHALL BE GRADE MARKED BY APA.

3. CUTTING, NOTCHING OR DRILLING OF BEAMS OR JOISTS TO BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER OF RECORD.

4. ALL BOLTS FOR WOOD CONNECTIONS SHALL BE A307, GRADE A.

5. CONNECTOR DESIGNATIONS REFER TO STRONG-TIE CONNECTORS BY SIMPSON COMPANY, BREA, CALIFORNIA, UNLESS NOTED OTHERWISE, NAILING SHALL FOLLOW THE MINIMUM REQUIREMENT BELOW:

A. THIS SECTION INCLUDES THE FOLLOWING FRP PRODUCTS AND FABRICATIONS: (A) USE COMMON WIRE NAILS FOR ALL CONNECTIONS, UNLESS NOTED OTHERWISE. SINKER NAILS ARE NOT ALLOWED. SEE HANGER MANUFACTURER FOR NAIL SIZES AND QUANTITY. 1. FRP STRUCTURAL SHAPES 2. FRP GRATINGS AND FRAMES 3. FRP FOAM CORE BUILDING PANELS AND SOLID FRP PANELS

(B) SHORT NAILS SHALL NOT BE USED TO NAIL CONNECTORS THROUGH PLYWOOD.

6. SILLS AND PLATES RESTING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR. BOLTS SHALL BE 5/8 INCH MINIMUM DIMMETRE REMEDDED AT LEAST 9 INCHES INTO THE CONCRETE OR MASONRY AND SPACED NOT MORE THAN 4 FEET APART. THERE SHALL BE A MINIMUM OF 2 BOLTS PER PIECE WITH 1 BOLT LOCATED WITHIN 9 INCHES OF EACH END OF EACH PIECE.

7. PREDRILL ALL HOLES FOR 20d NAILS AND LAG BOLTS.

LANDLORD (OR OWNER). 8. BOLTS, HEADS AND NUTS BEARING ON WOOD SHALL HAVE METAL WASHERS. BOLT HOLES IN WOOD SHALL BE DRILLED  $1/32^{\prime\prime}$  TO  $1/16^{\prime\prime}$  DIAMETER LARGER THAN NOMINAL BOLT DIAMETER. 3. PANEL SYSTEM MUST BE ABLE TO SPAN BETWEEN SUPPORTS PROVIDED AND RESIST A DESIGN WIND LOAD OF 25 POUNDS PER SQUARE FOOT (OR LARGER) PERPENDICULAR TO THE PANEL

9. LAG BOLTS SHALL HAVE LEAD HOLES BORED BEFORE DRIVING. HOLE DIAMETERS TO BE AS FOLLOWS:

(A) SHANK PORTION - SAME DIAMETER AND LENGTH AS SHANK

(B) THREAD PORTION - 0.60 TO 0.75 DIAMETER OF THREAD AND SAME LENGTH.

C. ALL FRP PRODUCTS SPECIFIED IN THESE DESIGN DRAWINGS SHALL BE AS FOLLOWS: 10. NAIL ALL 2X DOUBLE STUDS WITH 16d NAILS AT 12 INCHES ON CENTER, STAGGERED, MINIMUM 1" EDGE DISTANCE. UNLESS NOTED 1. STRUCTURAL SHAPES AND PLATE: FIBERGRATE DYNOFORM OR STRONGWELL, ALL STRUCTURAL SHAPES SHALL CONSIST OF A GLASS FIBER REINFORCED POLYESTER OR VINYL ESTER RESIN MATRIX, APPROXIMATELY 50% RESIN TO GLASS RATIO. GLASS STRAND ROVING SHALL BE USED IN THE LONGTUDINAL DIRECTION AND CONTINUOUS STRAND MATS SHALL BE USED FOR TRANSVERSE REINFORCEMENT.

11. ALL BREAKS IN DOUBLE PLATES FOR VENTS, DUCTS AND PLUMBING SHALL BE STRAPPED AS PER TYPICAL DETAIL.

12. FASTENING SCHEDULE SHALL FOLLOW TABLE 2304.9.1 OF 2010 CBC OR THE LATEST UNLESS NOTED OTHERWISE ON THE CONSTRUCTION PLAN.

FASTENERS: WHERE SPECIFIED AS FRP FASTENERS SHALL BE BERGRATE THREADED ROD AND NUTS. TYPICALLY BOLTS WITHIN TI IEA OF THE ANTENNA SIGNAL TO BE FRP. ALL OTHER BOLTS TO STIM A307 STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION" AND CONFORM TO: BE ASTM A307. D. ALL FRP PRODUCTS SHALL BE MANUFACTURED USING THE PULTRUDED PROCESS UTILIZING EITHER AN ISOPHTHALIC POLYESTER OR VINYL ESTER RESIN WITH FLAME RETARDANT AND ULTRAVIOLET

(A) STRUCTURAL SHAPES AND PLATES: ASTM A36 & ASTM 992 (B) TUBES: ASTM A500, GRADE B, FY = 46 KSI (C) PIPES: ASTM A53, GRADE B, FY = 35 KSI

(D) ELECTRODES : AWS D1.1, CLASS E70XX (E) STRUCTURAL FASTENERS:

E. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO INSTALL THE FRP PRODUCTS AS SPECIFIED HEREIN. HIGH STRENGTH BOLTS: ASTM A325 OR A490 AS INDICATED MACHINE BOLTS: ASTM A307

2. ANCHOR BOLTS CAST IN CONCRETE: (A) THREADED RODS: ASTM A36 (B) ANCHOR BOLTS: ASTM A307

3. SHEAR STUDS: ASTM A108 (AISC MANUAL)

STRUCTURAL CONNECTIONS" SECTIONS 8C.

IN THE FIELD

4. STEEL FABRICATOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. STEEL FABRICATOR TO COORDINATE WITH MECHANICAL SUBCONTRACTOR FOR THE SIZE, LOCATION AND DIMENSIONS OF THE MECHANICAL UNITS AND OPENINGS.

5. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS.

9. HIGH STRENGTH BOLTS INSTALLED AS BEARING BOLTS [A-325N] SHALL BE TORQUED TO SLIP CRITICAL TENSION REQUIREMENTS AS DEFINED BY THE LATEST PUBLICATION OF "RESEARCH COUNCIL ON

10 HIGH STRENGTH BOLTS REQUIRED TO BE SUP CRITICAL [A325 OR 10. HIGH STRENGTH BULTS REQUIRED TO BE SLIP CHILDRA [AS23 OR A490] CAN BE INSTALLED BY USE OF DIRECT TENSION INDICATOR IN CONFORMANCE WITH THE LATEST ASTM F959, OR CAN BE TENSION SET. CONTINUOUS INSPECTION IS REQUIRED DURING ALL SLIP CRITICAL HIGH STRENGTH BOLT INSTALLATIONS AND TIGHTENING OPERATIONS.

INSTALLATION SHALL BE CHECKED BY TORQUE WRENCH, CALIBRATED IN THE FIELD BY A DEVICE CAPABLE OF MEASURING DIRECT TENSION

13. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER, I.E.

MECHANICAL PLATFORMS AND ROOF TOP EQUIPMENT SUPPORTS, SHALL BE HOT DIPPED GALVANIZED. ANY WELDING PERFORMED ON GALVANIZED MEMBERS SHALL BE TOUCHED UP WITH ZINC RICH PAINT

14. ALL OTHER STRUCTURAL STEEL SHALL HAVE A SHOP COAT OF APPROVED PAINT.

15. ALL NEW STEEL SHALL BE CLEANED FREE OF RUST, LOOSE MILL SCALE AND OIL AFTER FABRICATION, THEN GIVEN ONE SHOP COAT OF RUST INHIBITVE PRIMER. ALL UNPAINTED SURFACES AND SURFACES WHERE PAINT HAS BEEN DAMAGED AND/OR MARKED SHALL BE GIVEN A FIELD TOUCH-UP COAT OF PRIMER USED FOR THE SHOP COAT.

16. SHOP DRAWINGS ARE NOT AUTOMATICALLY REQUIRED FOR APPROVAL BY THE ENGINEER OF RECORD UNLESS SPECIFICALLY NOTED AS REQUIRED. THIS DOES NOT PRECLUDE THAT OTHERS, SUCH AS THE CLIENT OR CONSTRUCTION MANAGEMENT MAY REQUIRE SOME FORM OF

6. ALL STEEL SHALL BE FABRICATED AND ERECTED BY A CITY APPROVED AND ICC LICENSED STEEL FABRICATOR.

7. ALL WELDING SHALL BE DONE BY AMERICAN WELDING SOCIETY (AWS) AND CITY CERTIFIED WELDERS USING AN ELECTRIC ARC PROCESS. CONTINUOUS INSPECTION IS REQUIRED FOR ALL FIELD WELDING.

I. FRP CONNECTION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

DIMENSIONS

FIBER REINFORCED PLASTIC (FRP):

FRP WALL PANEL SYSTEMS ARE TO MEET THE FOLLOWING

1. ALL FRP PRODUCTS TO BE FIBERGRATE IN ACCORDANCE WITH LOS ANGELES CITY RESEARCH REPORT 25536 OR STRONGWELL IN ACCORDANCE WITH LOS ANGELES CITY RESEARCH REPORT 25698.

SURFACE WITH A MAXIMUM DEFLECTION RATIO OF L/60.

5. REFER TO PROJECT SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

PANELS ARE TO MATCH THE EXISTING BUILDING COLOR AND TURE TO THE SATISFACTION OF EUKONGROUP, LEASE OWNER AND

4. ACCEPTABILITY OF THE PANEL RF TRANSPARENCY IS SUBJECT TO THE APPROVAL OF LEASE OWNER.

(UV) INHIBITOR ADDITIVES. A SYNTHETIC SURFACE VEIL SHALL BE THE OUTERMOST LAYER COVERING THE EXTERIOR SURFACE.

F. SHOP DRAWINGS ARE NOT AUTOMATICALLY REQUIRED FOR APPROVAL BY THE ENGINEER OF RECORD UNLESS SPECIFICALLY NOTED AS REQUIRED. THIS DOES NOT PRECLUDE THAT OTHERS, SUCH AS THE CLIENT OR CONSTRUCTION MANAGEMENT MAY REQUIRE SOME FORM OF SHOP DRAWINGS.

ERECTION INSTRUCTIONS AND SECTIONAL ASSEMBLIES LOCATION AND IDENTIFICATION MARKS SIZE AND TYPE OF SHORING OR TEMPORARY SUPPORT FRAMING MATERIAL SPECIFICATIONS AND SUPPORTING DATA AS NECESSARY

G. CONTRACTOR MAY BE REQUIRED TO SUBMIT SAMPLES OF SPECIFIC PRODUCTS FOR APPROVAL PRIOR TO INSTALLATION AND PLACEMENT OF PURCHASE ORDERS.

H. ALL CUT ENDS, HOLES AND ABRASIONS OF FRP SHAPES AND MEMBERS SHALL BE SEALED WITH A COMPATIBLE RESIN COATING TO PREVENT INTRUSION OF MOISTURE AND PREMATURE FRAYING.

8. MILL REPORTS SHALL BE FURNISHED TO THE CITY FOR ALL STRUCTURAL STEEL. MEMBERS OR OTHER RECORDS ATTESTING THAT THE SPECIFIC GRADE CONFORMS TO CALIFORNIA BUILDING CODE STANDARD 27-1. OTHERWISE, TESTING OF MATERIALS WILL BE REQUIRED. 1. FOAM CORE PANEL CONNECTIONS: PANELS SHALL BE DESIGNED FOR TONGUE-IN-GROOVE JOINT CONNECTIONS ON TWO PARALLEL SIDES PER PANEL, PANELS CAN BE FASTENED TO THE STRUCTURE WITH A COMPATIBLE EPOXY ADHESIVE AND/OR STAINLESS STEEL OR FIBERGLASS FASTENERS AS APPROPRIATE.

2. STRUCTURAL MEMBER CONNECTIONS:

I. ALL FIBERGLASS NUTS AND STUDS ARE TO BE LUBRICATED WITH EITHER A LIGHT OIL, DRY LUBRICANT OR SILCONE SPRAY.

II. ALL CONNECTIONS TO BE TORQUED TO THE FOLLOWING REQUIREMENTS

3/8	BOLI	 4 1	FI-LBS	
1/2"	BOLT	 8 F	T-LBS	
5/8"	BOLT	 16	FT-LBS	
3/4"	BOLT	 24	FT-LBS	
1" BC	DLT	 50	FT-LBS	

11. ALL STRUCTURAL STEEL ERECTED WITH ANCHOR BOLTS SHALL BE PLUMBED AND LEVELED TO FINAL POSITION WITH DOUBLE NUTS. NO LEVELING PLATES SHALL BE USED. III. ALL BOLTS TO BE TORQUED USING A CALIBRATED TORQUE WRENCH. 12. ALL STRUCTURAL STEEL SURFACES TO BE WELDED OR HIGH STRENGTH BOLTED, TO BE ENCASED IN CONCRETE, TO RECEIVE SPRAY APPLIED FIREPROFING, OR TO BE ENCLOSED BY FINISH MATERIALS, SHALL BE LEFT UNPAINTED.

IV. FIBERGLASS STUD/NUT ASSEMBLIES SHALL BE BONDED TO INSURE THAT THE NUTS DO NOT LOOSEN. THIS CAN BE ACCOMPLISHED BY APPLYING A THICK LAYER OF ADHESIVE OR RESIN TO OVER THE EXPOSED ASSEMBLY.

V. STRUCTURAL CONNECTION UNLESS OTHERWISE NOTED IN THE DESIGN DRAWINGS RELY ON A COMBINATION OF BOLT BEARING AND ADHESWE BONDING. EXPOXY ADHESIVES RECOMMENDED FOR CONNECTIONS ARE SHELL 828 EPOXY RESIN, DOW D.E.R. 331 EPOXY RESIN OR FIBERGRATE EPOXY ADHESIVE. SAND MATING SURFACES WITH 120 GRT SANDPAPER TO REMOVE POLYESTER SURFACING VELL AND CLEAN JOINING SURFACES WITH A COMPATIBLE SOLVENT PRIOR TO BONDING, JOINTS SHOULD BE PROPERLY CLAMPED IN ACCORDANCE WITH MANUFACTURET'S RECOMMENDATIONS CLAMPED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND HELD IN POSITION FOR AT LEAST 48 HOURS (AT 70 DEGREES. REFER TO MANUFACTURER TO OTHER TEMPERATURES) BEFORE DESIGN LOAD CAN BE APPLIED.

VI. MINIMUM EDGE DISTANCE OF FASTENERS TO THE SIDE OF MEMBER SHALL BE ONE AND A HALF DIAMETERS AND TWO DIAMETERS TO THE MEMBER END (OR MINIMUM OF 1.5"). MINIMUM BOLT SPACING TO BE FOUR DIAMETERS.

J. PROCEDURE FOR MAKING STRUCTURAL EPOXY JOINTS:

MATERIALS USED: STRONGWELL EPOXY ADHESIVE BASE STRONGWELL EPOXY ADHESIVE HARDENER SMALL WAX COATED PAPER CUP FOR MIXING CLEAN WOODEN OR FRP STICK FOR MIXING 100 CDT SANDBOAFER 120 GRIT SANDPAPER CLAMPS FOR HOLDING EPOXY JOINTS DURING CURE CLEAN CLOTH

II SURFACE PREPARATION 1. SAND MATING SURFACES WITH 120 GRIT SANDPAPER UNTIL THE SURFACE GLOSS HAS BEEN REMOVED. THE SURFACING VEIL MUST BE GROUND OFF TO EXPOSE THE GLASS REINFORCEMENT. SAND BLASTING EQUIPMENT CAN ALSO BE USED. 2 REMOVE ALL DUST WITH A CLEAN CLOTH: AIR BLASTING

III MIXING OF EPOXY MAING OF EPOAT MIX EQUAL VOLUME PORTIONS OF THE BASE AND HARDENER IN A SMALL WAX COATED PAPER CUP WITH A CLEAN STICK UNTIL A UNHORM GRAY COLOR IS ATTAINED AND ALL MARBLED APPEARANCE IS GONE.

NOTE: OTHER ADHESIVE SYSTEMS COMPATIBLE WITH FIBERGLASS CAN BE UTILIZED AND THE MANUFACTURER'S MIXING INSTRUCTIONS FOR THESE SYSTEMS SHOULD BE FOLLOWED.

- HARDENER IS 2.5. HOURS. 4. SECURE THE JOINT WITH CLAMPS (OR RIVETS OR BOLTS) AND ALLOW 24 HOURS FOR A FULL CURE THE ASSEMBLY CAN OFTEN BE HANDLED WITH RESONABLE CARE IN LESS THAN 8 HOURS, THE STRUCTURE SHOULD NOT BE REQUIRED TO SUPPORT ITS DESIGN LOAD UNTIL AT LEAST 48 HOURS (AT 70'F) AFTER BONDING. LOWER TEMPERATURES REQUIRE A LONGER CURE. 5. AFTER SECURING THE JOINT, WIPE AWAY EXCESS POXY.

### WELDING

INSPECTIONS:

2. INSPECTIONS ARE REQUIRED FOR:

\* ALL STRUCTURAL STEEL WORK \* ALL CONCRETE WORK \* ALL MASONRY WORK

ALL REINFORCING STEEL

\* ALL EXCAVATIONS

3. SPECIAL INSPECTIONS

5. REMOVE EXISTING PAINT ON EXISTING STEEL ELEMENTS BEFORE WELDING TO EXISTING STEEL.

#6 AND LARGER

## BAICH PLANT INSPECTIONS.......PERIOD GUNTE/SHOTCRETE PLACEMENT......CONTINUOL EPOXY ANCHOR INSTALLATION.....CONTINUOL MASONPY. MASONRY UNIT LAYUP. GROUT PLACEMENT. REBAR PLACEMENT .....

INSPECTION U.N.O .:

LUMBER:

SUBMITTALS

A. SHOP DRAWINGS.

B. MIX DESIGN OF CONCRETE.

EQUIPMENT MAY ALSO BE USED. AVOID RECONTAMINATION OF THE SURFACE FROM HANDLING.

APPLICATION AND CURE 1. APPLY THE MIXED EPOXY UNIFORMLY TO ALL SURFACES TO BE JOINED. A THIN APPLICATION IS OFTEM MORE BENEFICIAL THAN A THICK APPLICATION. 2. AVOID INTRODUCING MOISTURE INTO THE JOINT. 3. JOIN THE SURFACE TO BE BONDED. THE POT LIFE AT 77F FOR A 3 OZ. MIXTURE OF EQUAL VOLUMES OF BASE AND HARDENER IS 2.5 HOURS. 4. SECURE THE CONTRUCTION FOR DEVISE.

THE

1. ALL STRUCTURAL STEEL WELDING SHALL BE AS PER LATEST EDITION OF THE AMERICAN WELDING CODE (AWS) D1.1. ELECTRODE TO BE USED IS E 70XX. WELD LENGTHS SHOWN ARE EFFECTIVE LENGTH PER THE LATEST EDITION OF THE AWS. WHERE LENGTHS ARE NOT SHOWN, THE WELD SHALL BE FULL LENGTH OF JOINT.

2. ALL WELDING OF REINFORCING STEEL SHALL BE PER THE LATEST FDITION OF AWS D1.4.

3. CONTINUOUS INSPECTION IS REQUIRED FOR ALL WELDING. AL WELDING SHALL BE PERFORMED BY WELDERS HOLDING CURRENT CERTIFICATIONS FROM THE AWS AND THE CITY FOR WELDING OF STRUCTURAL STEEL.

4. ALL FULL PENETRATION WELDS SHALL BE TESTED BY NONDESTRUCTIVE METHODS. (ULTRASONIC OR RADIOGRAPHIC TESTING). ALL RADIOGRAPHIC OPERATIONS SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 17 – HEALTH; RADIATION CONTROL REGULATIONS. COORDINATION WITH OWNER RADIATION SAFETY OFFICER SHALL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY RADIOGRAPHIC OPERATIONS. A COPY OF ALL RADIATION SAFETY SURVEY/MONITORING LOGS SHALL BE FURNISHED TO OWNER.

FROM THE OWNER'S REPRESENTATIVE AT BEGINNING OF EACH WORK

1. CONTRACTOR SHALL KNOW AND COMPLY WITH REQUIREMENTS OF GOVERNING AGENCY BY INFORMING BUILDING DEPARTMENT WHEN REQUIRED INSPECTIONS ARE TO TAKE PLACE.

A) THE OWNERS SHALL EMPLOY SPECIAL INSPECTORS WHO SHALL PROVIDE ADDITIONAL INSPECTIONS DURING CONSTRUCTION IN ACCORDANCE WITH CBC CHAPTER 17.
B) ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED INSPECTOR FROM AN ESTABLISHED TESTING AGENCY, LICENSED AND APPROVED BY THE BUILDING DEPARTMENT. O. ALL INSPECTIONS SHALL BE CONTINUOUS LINES COTFERENCE

C) ALL INSPECTIONS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL COMPLY WITH ALL FIRE REGULATIONS DURING WELDING OPERATIONS WHERE FLAMMABLE ELEMENTS EXIST AND SHALL ALSO PROVIDE TEMPORARY PROTECTIVE SHIELDS OF ACCEPTABLE NON-FLAMMABLE MATERIALS AS REQUIRED TO PROTECT THE EXISTING BUILDING ELEMENTS FROM FIRE. IN ORDER TO AVOID ANY FIRE HAZARD, REMOVE TEMPORARILY ALL EXISTING WOOD ELEMENTS IN THE CLOSE VICINITY OF THE NEW WELDING OPERATIONS AND REINSTALL THEM ATTERWARDS TO THE ORIGINAL CONDITION. CONTRACTOR MUST OBTAIN A WELD OR BURN PERMIT CONDITION. CONTRACTOR MUST OBTAIN A WELD OR BURN PERMIT





ANTENNA CABLE WEATHERPROOFING KIT WEATHERPROOFING KIT CABLE GROUND KIT A WO STRANDED CU WIRE WITH GREEN, GOOV, THWIN INSULATION OR BACY, MARKED AS REQUIRED BY THE NEC (GROUNDED TO GROUND BAR) (SEE NOTES 1 & 2) NOTES 0. GROUND BATL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE 0. GROUND BALL GE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER. 0. WEATHERPROOFING SHALL BE (YPPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER. 1. WEATHERPROOFING SHALL BE (YPPE AND PART NUMBER) AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER AND APPROVED BY CONTRACTOR.	<image/>	REFER TO EQUIPMENT AND ANTENNA LAYOUT PLANS FOR GROUNDING PL TO ANTENNA(S) UMPER REQUIRED ONLY FOR EASE OF CONNECTION (TYP) AND STRESS REDUCTION ON ANTENNA CONNECTORS CONNECTORS CONNECTOR WEATHERPROOFING KIT, WHERE OCCURS (TYP) STANDARD GROUND KIT (TYP) (SEE NOTE 1) ANTENNA CABLE TO RRH (TYP) MECHANICAL GROUND CONNECTION; CONNECT PER MANUFACTURER'S SPECIFICATIONS RH
CABLE GROUNDING KIT SPECIFICATION       SCALE NONE       1         Product Data Sheet       HB114-1-08U4-MI         HYBRIELX™ RRH Hybrid Feeder Cabling Solut         Product Description         RS <sup>+</sup> HYBRIELX Month Red (RRH) Hybrid feeder cabling Solut         Product Description         RS <sup>+</sup> HYBRIELX Month Red (RRH) Hybrid feeder cabling Solut         Product Description         RS <sup>+</sup> HYBRIELX Merk Hybrid Feeder Cabling Solution for BKH is raining in the model for endure first in and endles method in the med for and cost of installation competent deploying an RKH inclusteue to a single feeder Standard RFS CLUFLEX* accessors can be up on single reader Standard RFS CLUFLEX* accessors can be up on single reader Standard RFS CLUFLEX* accessors can be up on single or notice options are available.         Features/Generits         • Aluminum corrugated armor with outstanding bending to a single standard RFS CLUFLEX* accessors can be up on single indextoring and and portable options are available.         • Aluminum corrugated armor with outstanding bending to a single indextoring and and portable options are available.         • Outer conductor grounding - Eliminates to pield protection and a single indextoring and and portable options are available.         • Outer conductor grounding - Eliminates to pield protection and a single single reader standard RFS CLUFLEX* accessors are available.         • Outer conductor grounding - Eliminates to pield protection and a single indextoring and and portable protection and a single indextoring and and portex available.         • Oute	GROUND CONDUCTOR SPECIFICATION       SCALE NONE         State       None	2 HYBRID CABLE OR FIBER CABLE BREAK OUT CYLINDER TO EXISTING ANTENNAS, TO REMAIN HYBRID CABLE OR FIBER CABLE TO BTS, (SEE NOTES 2, 3, 4)
Standardizing RHI cable installation and reducing installation and	integrinements         patch         integrinements         integrine         integrintegrine         integrintegrine	CROUND ALL UPGRADE EQUIPMENT TO GROUND BAR INSIDE CABINET 2.5 GHz 2.5 GHz 3.6 GND MZ 3.6 GND MZ 3.6 GND MZ 4.6 GND MZ
1– 1/4" FIBER CABLE SPECS	SCALE	3 GROUNDING RISER DIAGRAM



