

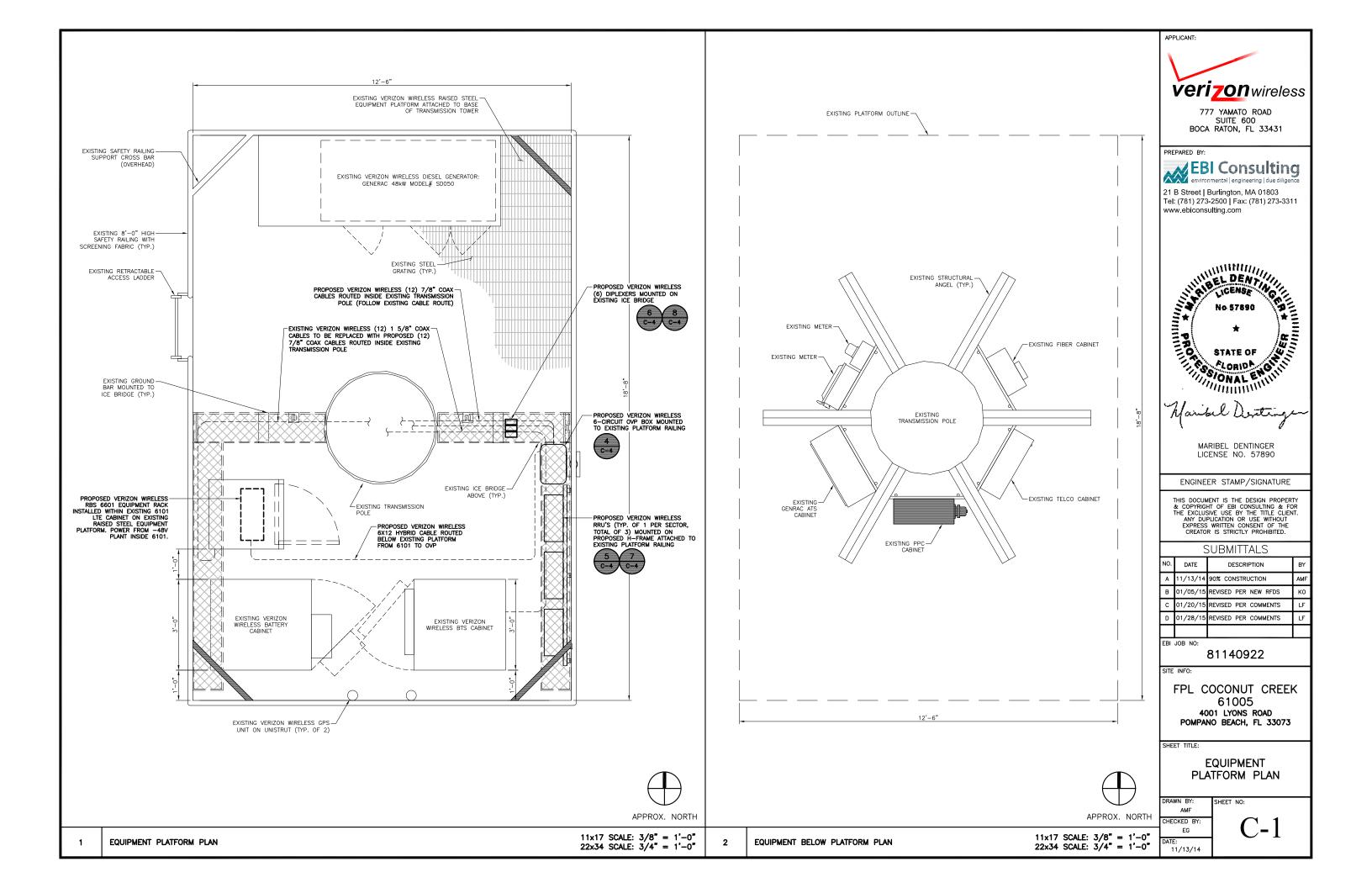


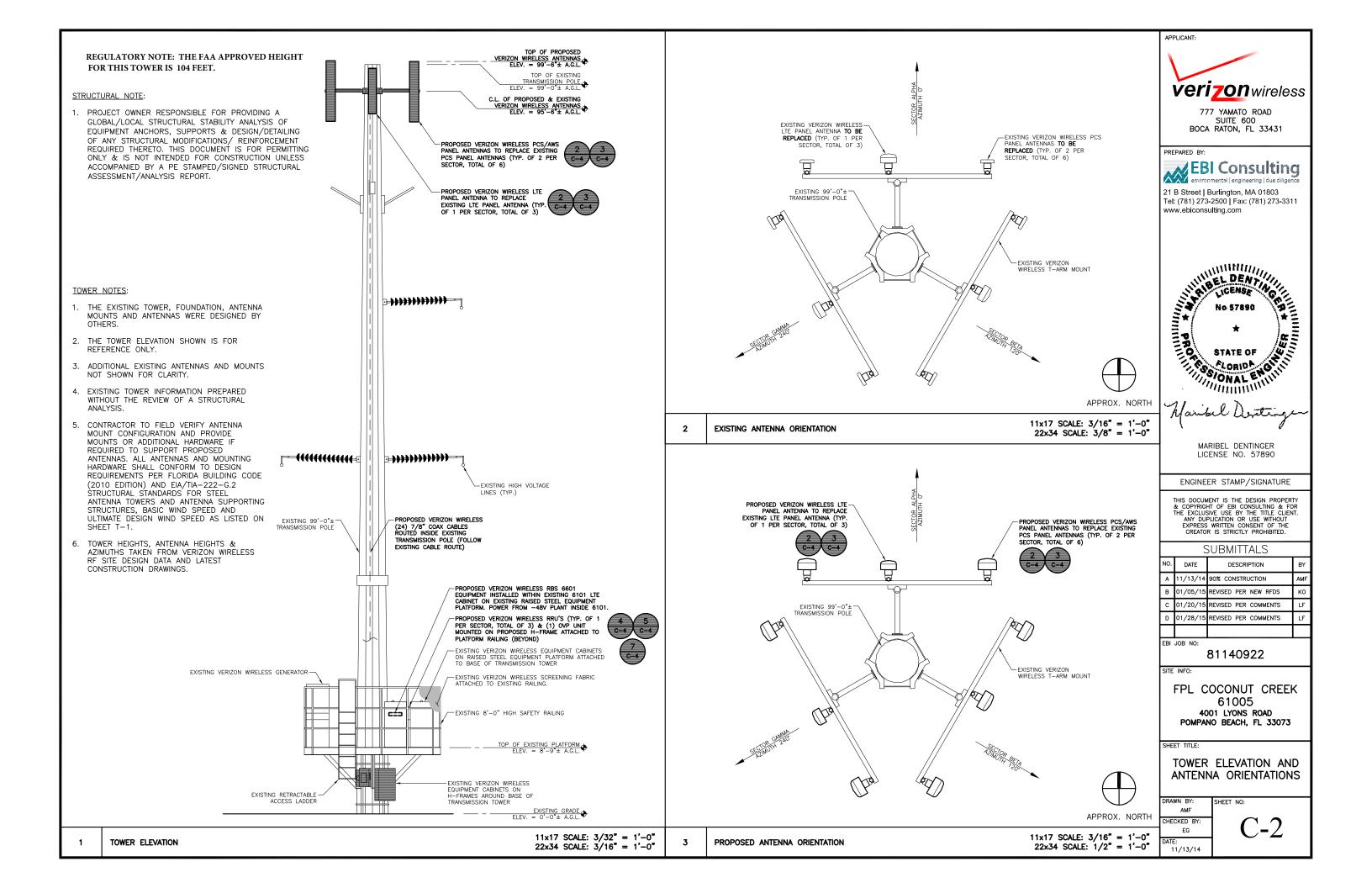
FPL COCONUT CREEK 61005 4001 LYONS ROAD POMPANO BEACH, FL 33073

SITE MODIFICATION WITH AWS

0	CODE COMPLIANCE	VICINITY MAP		2	SHEET INDEX
			SHEET		DESCRIPTION
ALL WORK AND MATERIAL WITH THE CURRENT EDITI	S SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE ONS OF THE CODES AS ADOPTED BY THE LOCAL	IFroad) 669 SawgrassExpy (Tollfroad) 669 669 104 0 5 5 40 10 10 5 5 40 10 10 10 10 10 10 10 10 10 10 10 10 10	T-1	TITLE SHEET	
GOVERNING AUTHORITIES.	VERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO RMIT WORK NOT CONFORMING TO THE LOCAL CODES:	NW 540 ⁵⁰	C-1	EQUIPMENT PLATFOR	RM PLAN
 2010 FLORIDA BUILDING CODE W/ 2012 SUPPLEMENT WIND DESIGN CRITERIA: 	Million Solution Terrace	C-2	TOWER ELEVATION AND ANTENNA ORIEN		
BASIC WIND SP RISK CATEGORY	A. ASCE 7-10 BASIC WIND SPEED = 175 MPH RISK CATEGORY = II		C-3	RF DATA AND CABLE SCHEDULE	
EXPOSURE = (B. ANSI/TIA-222- (ALLOWED PER		vortie Run glvd	C-4	GENERAL NOTES AN	D DETAILS
BASIC WIND SF OCCUPANCY CA EXPOSURE = (PEED = 136 MPH ATEGORY = II	Culture realized and the second secon	E-1	ELECTRICAL NOTES	
IMPORTANCE FA 2. FLORIDA FIRE PREVEN	ACTOR = 1.0 NTION CODE - 2010		E-2	GROUNDING DETAILS	AND NOTES
3. NATIONAL ELECTRICAL 4. CITY AND/OR COUNTY		W Sample Rd (834)			
PR	OJECT INFORMATION	SCOPE OF WORK		P	ROJECT TEAM
SITE NAME: SITE NUMBER:	FPL COCONUT CREEK 61005	VERIZON WIRELESS PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY. 1. INSTALL (1) RBS 6601 EQUIPMENT INSIDE OF EXISTING 6101 LTE CABINET.	APPL	LICANT:	VERIZON WIRELESS
SITE ADDRESS:	4001 LYONS ROAD POMPANO BEACH, FL 33073	 REPLACE EXISTING (9) ANTENNAS WITH (3) NEW PCS ANTENNAS, (3) NEW AWS ANTENNAS & (3) NEW LTE ANTENNAS. 			SUITE 600 BOCA RATON, FL 334
JURISDICTION:	BROWARD COUNTY	 INSTALL (3) RRU'S FOR AWS ON EXISTING EQUIPMENT PLATFORM SAFETY RAILING (1 PER SECTOR). 	ARCH	HITECT & ENGINEER:	EBI CONSULTING 21 B STREET BURLINGTON, MA 018
COORDINATES:	LATITUDE: 26' 16' 48.38" N (NAD 83) LONGITUDE: 80' 11' 12.29" W (NAD 83)	 INSTALL (24) 7/8" COAX CABLES. INSTALL (1) 6-CIRCUIT BASE OVP BOX MOUNTED ON EXISTING PLATFORM 	SITE	ACQUISITION:	(781) 273-2500 EBI CONSU
		 SAFETY RAILING. 6. INSTALL (1) 6x12 HYBRID CABLE FOR AWS TO RRU'S AT PLATFORM. 7. INSTALL (6) DIPLEXERS ON EXISTING ICE BRIDGE. 	311E		21 B S BURLING (781) 27.
			-		

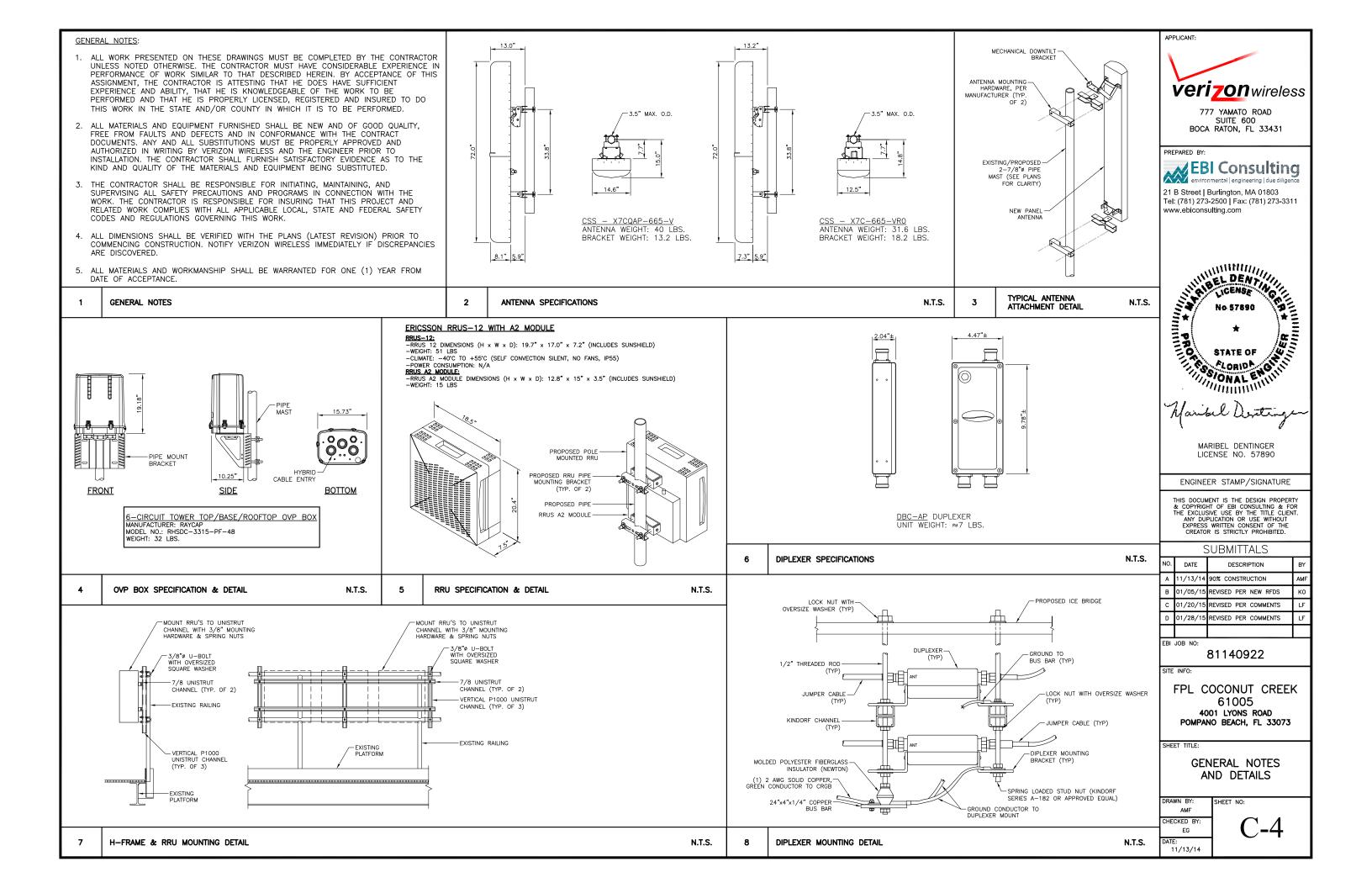
APPLICANT: VECIZOD wireless ATT YAMATO ROAD SUITE 600 BOCA RATON, FL 33431 PREPARED BY: EBI Consulting environmental engineering due diligence 21 B Street Burlington, MA 01803 Tel: (781) 273-2500 Fax: (781) 273-3311 www.ebiconsulting.com
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NO. DATE DESCRIPTION BY
A 11/13/14 90% CONSTRUCTION AMF
B 01/05/15 REVISED PER NEW RFDS KO
C 01/20/15 REVISED PER COMMENTS LF
D 01/28/15 REVISED PER COMMENTS LF EBI JOB NO: 81140922
site info: FPL COCONUT CREEK ১১৯ – 61005
POM ANO BEACH, FL 33073
FPL COCONUT CREEK 61005 4001 LYONS ROAD POM ANO BEACH, FL 33073 SHEET TITLE: TITLE SHEET DRAWN BY: AMF CULTORYTE DX
DRAWN BY: AMF CHECKED BY: EG DATE: 11/13/14





				FPL_Coconut Creek					PROPOSED CONFIGURATION	· · · · · · · · · · · · · · · · · · ·	
		CURRENT CONFIGURATION		148031					RF ENGINEERING ANTENNA SPECIFIC		
		RF ENGINEERING ANTENNA SPECIFI Cellular 800 MHz Antenna Configu					No CDMA Service	-	CELLULAR 800 MHz ANTENNA CONFIGU		1
	No CDMA Service Antenna Quantity Antenna Model	ALPHA	BETA	GAMMA		Antenna Quantity Antenna Model	NO COMA ALVICE			BEIA	
	Antenna Orientation Antenna Centerline (feet AGL)					Antenna Orientation Antenna Centerline (fee Mechanica I Down-Tilt (i	rt AGL)				
	Mechanical Down-Tilt (Deg.) Diplexed Antenna Diplexer Model Oxy:					Diplex ed Antenna Diplex er Model	Qty:				
	TMA Model Oty: Oty: Oty: Oty: Oty: Oty: Oty: Oty:					TMA Model Coaxial Type Coaxial Quantity	Qiy:				
	Coaxial Quantity Cell Site Number & PNs	PCS 1900//Hz ANTENNA CONFIGURA				Coaxial Quantity Cell Site Number & PNs	t.		PCS 1900MHz ANTENNA CONFIGURA		
	SCOPE OF W ORK- 1900 Mhz Antenne Quantity	ALPHA	BETA	GAIMMA		Antenna Quantity	No PCS Service		ALPHA	BETA	
	Antenna Model	LPA-185080-12CF 2° 0	LPA-185080-12CF 2° 120	LPA-185080-12CF 2° 240		Antenna Model Antenna Orientation			CSS X7CQAP-665-VR0 0	CSS X7 CQAP-565-VR0 120	c
	Antenna Ortentation Antenna Centerline (fest AGL) Meshanical Down-Tilt (Deg.) Diplexed Antenna	95.5	95.5	95.5 0		Antenna Centerline (fec Starting Electrical Dow Diplex ed Antenna	rt AGL) n-Tilt (Deg.)		95.5 2 YES,6 DBC-Aps	95.5 2 YES, 6 DBC-Aps	
	Diplexed Antenna Diplexer Model Oty: TMA Model Oty:					Diplex er Model TMA Model	Oty: Oty:		YES, 6 DBC-Aps	YES, & DBC-Aps	
	Coaxial Type Coaxial Quantity PCS Site Number & PNs	1 5/8 " 2 31	15/8"	15/8" 2		Coaxial Type Coaxial Quantity	-		78 "	7/8 "	
	SCOPE OF WORK-700 Mhz	LTE 700MHz ANTENNA CONFIGURA ALPHA	TIONS	GAMMA		PCS Site Number & PN		31	LTE 700MHz ANTENNA CONFIGURAT		
	Antenna Quantity Antenna Model	1 X7-665-2	1 X7-665-2	1 X7-665-2		N ew Antenna Quantity Antenna Model	Service - New Antennas (Like-for-Like		ALPHA 1 CSS X7C-665-4	BETA 1 CSS X7C-665-4	
	Antenna Orientation Antenna Centerline (feet AGL) Mechanical Down-Tilk (Deg.)	0 95.5 0	110 95.5 0	200 95.5 0		Antenna Orientation Antenna Centerline (fee	rt AGL)		0 95.5	120 95.5	
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	Coaxial Type Coaxial Quantity	1 548 "	1 5/8 "	15/8 "		TMA Model Coaxial Type	Qty:		7,8 **	7.6 "	
	DUL Quantity Qty:	148031				Coaxial Quantity DUL Quantity LTE Site Number & PN:	Qty:	148031	4	4	
	No AWS Service	LTE 2100MHz (AWS) ANTENNA CONFIGU	BETA	GAMMA					LTE 2100MHz (AV/S) ANTENNA CONFIGU	NACOMONS.	1
	Antenna Quantity Antenna Model Antenna Orientation					N ew Antenna Quantity Antenna Model	Service - New Antennas (Like-for-Like		ALPHA 1 CSS X7CQAP-665-VR0	BETA 1 CSS X7 COAP-665-VR0	c
	Antenna Centerline (teet AGL) Mechanical Down-Tilk (Deg.) Diplexed Antenna					Antenna Orientation Antenna Centerline (fee	t AGL)		0 96.6	120 95.5	
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	AWS Site Number & PNs TECH TYPE: 700/900					Coaxial Quantity DUL Quantity AWS Site Number & PN	Qty:	448031	2	2	
	ANTENNA: COAX: DIPLEXER:										
	en élénen.					ANTENNA: Add X7C QA	00/2100 P Model RET Antennas for LTE/AW S. X7	C Model RET Antenr	nas for LTE.		
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	Total Number of Antennas; 0 Total Number of Antennas; 6 Total Number of Antennas; 3	CELLULAR (850MHz) PCS (1900MHz) LTE (700MHz)	Total Number of Co Total Number of Co Total Number of Co	paxial: 6 baxial: 6		ANTENNA: Add X7C QA COAX: 24 Coax Lines to DIPLEXER: No, Smart B COMMENT S: Nole starti To fai Num	002/100 P Mode RET Antennas for LTE/AWS: X7 Iai Iai Tis needed for LTE(refer to Maintenan ng electrical downtill values for RET anter ber of Antennas:	ce Eng Guide for det	talis) mechanical downtilits) BBU (ground) and RRU/A2 (ground EQUIPMENT SUMMARY CELLULAR (850MHz)	Total Number of C	
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NOTES TO CONTRACTOR

- ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND ENGINEERING DRAWINGS AND SPECIFICATIONS
- 2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE WIRELESS CARRIERS INSTALLATION GUIDE.
- THE LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN 3. ON THE PLANS ARE DIAGRAMMATIC. EXACT LOCATION AND ROUTING SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD PRIOR TO INSTALLATION WITH THE APPROVAL OF THE WIRFLESS CARRIERS CONSTRUCTION MANAGER OR OTHERWISE BE REROUTED AT THE EXPENSES OF THE CONTRACTOR.
- ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT (NEW AND 4. EXISTING) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN OF CONDUITS. ALL EQUIPMENT SHALL BE PROPERLY CONNECTED ACCORDING TO THE NAMEPLATE DATA FURNISHED ON THE EQUIPMENT (THE DESIGN OF THESE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN DRAWINGS). LOCATION OF OUTLETS, BOXES, ETC. AND THE TYPE OF CONNECTION (PLUG OR DIRECT), SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- THE CONTRACTOR SHALL PERFORM IEEE 'THREE POINT FALL OF POTENTIAL' RESISTANCE TO EARTH TEST FOR GROUND ELECTRODE SYSTEM AT EXTERIOR LOCATED SITES. THE CONTRACTOR SHALL INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. REFER TO THE WIRELESS CARRIERS INSTALLATION GUIDE FOR COMPLETE TESTING AND RECORDING REQUIREMENTS
- 6. ELECTRICAL EQUIPMENT SHALL BE FIRMLY SECURED TO THE SURFACE ON WHICH IT IS MOUNTED.
- 7. COMMUNICATION EQUIPMENT AND RACEWAYS SHALL COMPLY WITH REQUIREMENTS OF NEC CHAPTER 8 AND ARTICLE 480 WHERE APPLICABLE.

ELECTRICAL SPECIFICATIONS

SECTION 16010 - GENERAL PROVISIONS

- ALL APPLICABLE PROVISIONS OF DIVISION 01 GOVERN WORK Α. UNDER THIS DIVISION. REFER TO THIS ARTICLE ON THE DRAWINGS FOR ADDITIONAL INFORMATION.
- THIS CONTRACTOR SHALL GUARANTY FULLY ALL WORKMANSHIP, B. MATERIAL, EQUIPMENT, SYSTEMS, ETC., PROVIDED BY HIM FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION OF THE PROJECT
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE APPLICABLE STATE, NATIONAL AND LOCAL ORDINANCES. BUILDING CODES AND THE NATIONAL ELECTRIC CODE, AND THE TERMS AND THE CONDITIONS OF THE AUTHORITIES HAVING LAWFUL JURISDICTION PERTAINING TO THE WORK REQUIRED. ALL MODIFICATIONS REQUIRED BY THESE CODES, RULES, REGULATIONS, AND AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER
- D. ALL MATERIALS, APPLIANCES, EQUIPMENT, OR DEVICES SHALL BE NEW AND SHALL BE SPECIFICATION GRADE AND LISTED, LABELED AND CERTIFIED BY UNDERWRITER'S LABORATORIES INC. FOR THE USE, ALL OUTDOOR ELECTRICAL ENCLOSURES SHALL BE WEATHERPROOF AND BE NEMA 250, TYPE 3R RATED, OR BETTER.

SECTION 16075 - ELECTRICAL IDENTIFICATION

- PROVIDE AND INSTALL WARNING, CAUTION AND INSTRUCTION SIGNS WHERE REQUIRED TO COMPLY WITH N.E.C AND OSHA REGULATIONS AND WHERE NEEDED TO ENSURE SAFE OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS AND OF ITEMS TO WHICH THEY CONNECT. ALL LABELS SHALL BE SUITABLE FOR EXTERIOR USE WHEN INSTALLED OUTDOORS.
- ALL ELECTRICAL EQUIPMENT SHALL BE MARKED AND LABELED В. FOR IDENTIFICATION PURPOSES WITH PHENOLIC NAMEPLATES SIZED IN RELATION TO THE APPARATUS AND ATTACHED ON THE EXTERIOR SURFACES INDICATING THE EQUIPMENT DESIGNATION, OPERATING VOLTAGE AND THE SOURCE SUPPLYING THE

EQUIPMENT. ENGRAVED LABEL SHALL BE PROVIDED ON THE WIRELESS CARRIERS METER SOCKET ENCLOSURE.

- C. ALL CABLES OR CONDUCTORS SHALL BE IDENTIFIED WITH CIRCUIT IDENTIFICATION MARKERS IN EACH PULL BOX. J-BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS OR APPROVED FOUAL
- D. ALL DIRECT BURIED CONDUITS SHALL BE PROVIDED WITH 6" WIDE 5 MIL THICK ALUMINIZED PLASTIC WARNING TAPE IDENTIFYING CONTENTS. TAPE COLORS SHALL BE ORANGE FOR TELEPHONE AND RED FOR ELECTRIC.
- E. ALL LABELS AND PANEL DIRECTORIES SHALL BE TYPEWRITTEN, NOT HAND WRITTEN.
- F. INSTALL LABEL ON EACH ACCESSIBLE SIDE OF ENERGIZED EQUIPMENT TO READ: MAINTAIN 30"(MIN)W X 36"D X 78"H CLEAR WORKING SPACE.

SECTION 16110 - RACEWAYS, BOXES AND FITTINGS

- A. INSTALL ALL CONDUIT AS REQUIRED FOR THIS CONTRACT PER NEC BY TYPE AND USE, UNLESS NOTED OTHERWISE WITHIN THIS SPECIFICATION.
- B. EXERCISE PARTICULAR CARE IN ROUTING AND GROUPING EXPOSED CONDUIT TO PRESENT NEAT AND WORKMANLIKE APPEARANCE WITH ALL LINES RUNNING PARALLEL WITH OR PERPENDICULAR TO SITE LINES AND EQUIPMENT.
- C. CUT ALL CONDUITS WITH AN APPROVED CUTTING MACHINE AND REAM AFTER THREADING TO REMOVE ALL BURRS.
- D. WHERE SIZE IS NOT SPECIFIED ON DRAWINGS, THE CONTRACTOR SHALL SIZE CONDUIT, JUNCTION BOX AND/OR PULL BOXES PER N.E.C BASED ON WIRING REQUIREMENT. THE CONTRACTOR SHALL PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN ON THE DRAWINGS OR NOT SHOWN, AND AS REQUIRED BY N.E.C. TO LIMITED BENDS IN CONDUITS TO AN EQUIVALENT OF (4) 90-DEGREE BENDS
- E. INSTALL FACTORY ELBOWS ON 2" AND ABOVE CONDUIT. FIELD BENDS AND OFFSETS SHALL BE MADE WITH AN APPROVED BENDING MACHINE. USE CONDUIT BODIES ASSEMBLY TO FACILITATE PULLING OF CONDUCTORS OR TO MAKE CHANGES IN CONDUIT DIRECTION TO AVOID CONFLICT IN CONFINED SPACE.

BURIED ELECTRICAL DUCTS SHALL USE SCHEDULE 80 RIGID PVC PLASTIC CONDUIT WITH WATERTIGHT JOINTS ALL UNDERGROUND/BURIED 90° ELLS SHALL BE RIGID TYPE FITTINGS, USE RIGID GALVANIZED CONDUIT FLBOWS TO TRANSITION FROM PVC TO RIGID GALVANIZED STEEL CONDUIT INSTALLED FROM 18" BELOW GRADE AND ABOVE GRADE. ALL PVC CONDUITS BURIED LESS THAN 18" BELOW GRADE SHALL BE SCHEDULE 80.

EXPOSED OUTDOOR LOCATIONS SHALL USE RIGID GALVANIZED STEEL (RGS) CONDUIT, U.O.N, WITH THREADED OR RAIN TIGHT FITTINGS, EXPOSED THREADS SHALL BE PROTECTED WITH ZINC-RICH PAINT. USE SUN RESISTANT LIQUID TIGHT FLEXIBLE METALLIC CONDUIT AND WATERTIGHT CONNECTIONS WHERE REQUIRED TO MAKE FINAL CONNECTIONS TO EQUIPMENT IF IT IS NOT EXPOSED TO PHYSICAL DAMAGE, EXTREME HEAT OR COLD. ENSURE CONTINUITY OF THE BONDING AND GROUNDING SYSTEM WHEN CONDUITS TRANSITION TO NON METALLIC CONDUITS OR WHEN EXPANSION TYPE FITTINGS ARE USED.

DRY INTERIOR LOCATIONS SHALL BE ELECTRICAL METALLIC TUBING (EMT) WITH STEEL COMPRESSION TYPE FITTINGS. THE USE OF SET SCREW FITTING IS NOT PERMITTED - NO EXCEPTION.

PROVIDE INSULATED BUSHINGS TO PREVENT ABRASION OF WIRES AND DOUBLE LOCKNUTS ON CONDUITS ENTERING OR LEAVING JUNCTION BOXES, PULL BOXES, ELECTRICAL DEVICES AND EQUIPMENT CABINETS. EQUIP ALL RGS CONDUIT WITH GROUND BUSHINGS AND GROUND IT TO THE COMMON GROUNDING ELECTRODE SYSTEM.

AVOID CONDENSATION POCKETS IN INSTALLATIONS. KEEP CONDUIT, FITTINGS AND BOXES FREE FROM FOREIGN MATTER BEFORE, DURING AND AFTER INSTALLATION.

ALL CONDUITS, INCLUDING THOSE WITH NEW CABLES INSTALLED, SHALL HAVE A NYLON PULL ROPE INSTALLED TO FACILITATE FUTURE PULL.

F. THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4".

SECTION 16120 - CONDUCTORS

ALL POWER WIRE SHALL BE TYPE THHN/THWN INSULATED SINGLE COPPER CONDUCTOR, RATED AT 600 VOLTS 90°C TO COMPLY WITH UL & NEMA WC 70. MINIMUM WIRE SIZE FOR CURRENTS UP TO 20 AMPERE SHALL BE #12 AWG. USE SOLID COPPER UP TO SIZE #10 AWG AND SMALLER; STRANDED COPPER FOR #8 AWG AND LARGER. USE OF ALUMINUM CONDUCTORS WILL NOT BE PERMITTED.

USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.

USE PULLING MEANS; INCLUDING FISH TAPE, CABLE, ROPE, AND BASKET-WEAVE WIRE/CABLE GRIPS THAT WILL NOT DAMAGE CABLES OR RACEWAY

CONDUCTOR LENGTHS SHALL BE CONTINUOUS FROM TERMINATION TO TERMINATION WITHOUT SPLICES AS MUCH AS POSSIBLE. SPLICES, JOINTS AND CONNECTIONS IN CABLE SHALL BE MADE ONLY IN PULL BOXES, JUNCTION BOXES OR MANHOLES. CABLE SHALL BE LOOPED IN ALL JUNCTION BOXES AND PULL BOXES, AND RACKED IN MANHOLES.

TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING. TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A AND UL 486B

CONNECTORS AND LUGS FOR COPPER CONDUCTORS #8 AND SMALLER: 3M SCOTCHLOK SERIES 61 SNAP SPADE, OF ACCEPTABLE EQUAL OR T & B STA-KON COMPRESSION OR INDENT TYPE CONNECTORS WITH INTEGRAL OR SEPARATE INSULATING CAPS. FOR COPPER CONDUCTORS LARGER THAN #8: SOLDERLESS, INDENT, HEX SCREW OR BOLT TYPE PRESSURE CONNECTORS, PROPERLY TAPED OR INSULATED.

PROVIDE ADEQUATE LENGTH OF CONDUCTORS WITHIN ELECTRICAL ENCLOSURES AND TRAIN THE CONDUCTORS TO TERMINATION POINTS WITH NO EXCESS. MAKE TERMINATIONS SO THERE IS NO BARE CONDUCTOR AT THE TERMINAL

COLOR CODE, PHASE, NEUTRAL, AND GROUND CONDUCTORS COLOR-CODED IN ACCORDANCE WITH NEC. IDENTIFY ALL CONDUCTORS OF THE SAME PHASE CONDUCTOR TO THE SAME COLOR CODE. SUGGESTED COLOR CODING FOR 120/208V, SHOULD BE BLACK, RED, BLUE, WHITE, AND 277/480V, SHOULD BE BROWN, ORANGE, YELLOW, GRAY WITH GREEN FOR ALL EQUIPMENT GROUND CONDUCTORS.

EACH CONDUIT OR RACEWAY THAT HAS A PHASE CONDUCTOR SHALL ALSO CONTAIN A GREEN INSULATED GROUNDING CONDUCTOR SIZED PER N.E.C, UNLESS OTHERWISE INDICATED.

AFTER THE ELECTRICAL EQUIPMENT AND THE WIRING IS INSTALLED, BUT BEFORE ELECTRICAL CONNECTIONS TO FOUIPMENT, TEST PHASE-TO-PHASE AND PHASE-TO-GROUND INSULATION ON SERVICE ENTRANCE AND FEEDERS TO ENSURE THAT THEY HAVE THE PROPER INSULATION AND ARE FREE OF GROUND FAULT. SYSTEMS RATED ABOVE 250 VOLTS SHALL BE TESTED WITH A 1000 VOLT MEGGER. CIRCUITS RATED AT OR BELOW 250 VOLTS SHALL BE TESTED WITH A 500 VOLT MEGGER.

CORRECT MALFUNCTIONING CONDUCTORS AND CABLES, WHERE POSSIBLE, AND RETEST TO DEMONSTRATE COMPLIANCE: OTHERWISE, REMOVE AND REPLACE WITH NEW UNITS AND RETEST AS SPECIFIED. PER NEC770.3(A), THE REQUIREMENTS OF 300.21 FOR ELECTRICAL INSTALLATIONS SHALL ALSO APPLY TO INSTALLATIONS OF OPTICAL FIBER CABLES AND RACEWAYS. THE ACCESSIBLE PORTION OF ABANDONED OPTICAL FIBER CABLES SHALL BE REMOVED.



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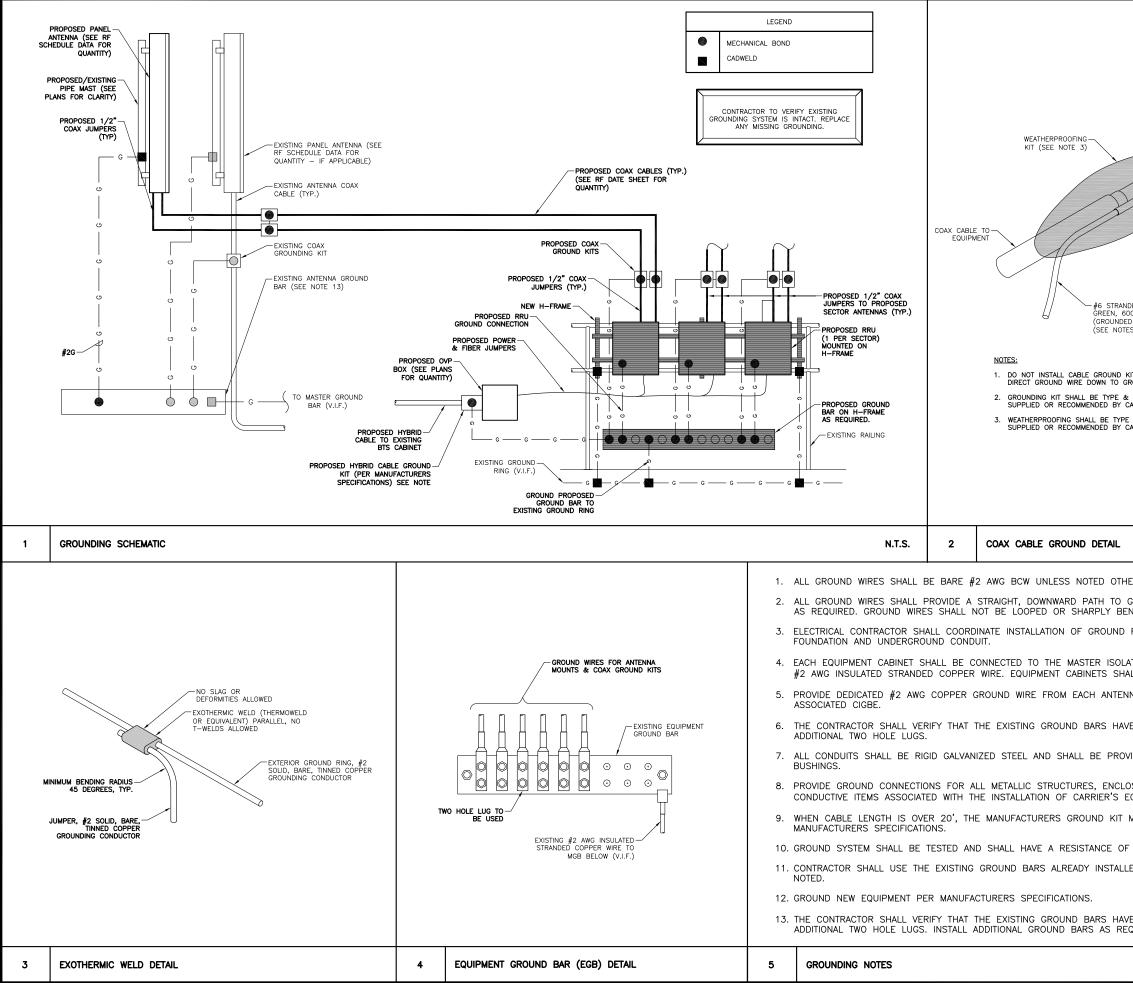
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