

prior to starting work at (954) 828-5649

PERMIT NO. CC13-07

District 3



Description of Work Installing cabinet and utility pole within right-of-way. Anticipated start and end dates of work 6/2/14 - 45 days This permit application is for an exemption from the requirement to install communications service facilities below grade, in accordance with Section 25-100.1.B.3 of the City of Fort Lauderdale Code of Ordinances (Code). A letter by a qualified expert(s) is attached. Crown Castle is requesting the following waivers (check all applicable subsections and attach supporting documentation): C.1
Anticipated start and end dates of work 6/2/14 - 45 days This permit application is for an exemption from the requirement to install communications service facilities below grade, in accordance with Section 25-100.1.B.3 of the City of Fort Lauderdale Code of Ordinances (Code). A letter by a qualified expert(s) is attached. Crown Castle is requesting the following waivers (check all applicable subsections and attach supporting documentation): C.1
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Armando Hernandez Printed Name of Authorized Crown Castle Agent Signature of Authorized Crown Castle Agent
Printed Name of Authorized Crown Castle Agent Signature of Authorized Crown Castle Agent
Notary Public, My Commission Expires 8 · 23 · 16
Seal Wolfy Public State of Florida Angel Prieto My Commission EE 829439 Expires 08/23/2016 (Do not write below this line)
Conceptual approval dateby, Subject to the following conditions: 1) A detailed visual mitigation plan is required
Final Permit approval dateby Final Inspection dateby* *Notify Engineering Permits Division 24 hours



CLIENT:

CLIENT SITE ID#:

ADDRESS:

SITE TYPE:

CROWN CASTLE SFL62 1

891 NW 12TH STREET FORT LAUDERDALE, FLORIDA 33311

PROPERTY INFORMATION

SITE COORDINATES:

PROPERTY OWNER: ADDRESS:

26.14018 -80.15379 2 JURISDICTION: CITY OF FORT LAUDERDALE

CROWN CASTLE 8555 NW 64TH STREET

MIAMI, FL 33166

PROJECT TEAM

PROJECT MANAGEMENT FIRM: CROWN CASTLE ADDRESS: CROWN 64TH STREET

ENGINEERING FIRM:

CONTACT:

AW SOLUTIONS, INC. 300 CROWN OAK CENTRE DR. LONGWOOD, FL 32750 SHANE HAFNER 407.260.0231 EXT. 120

PHONE: FLORIDA COA#:

DESIGN CRITERIA;

1. FLORIDA BUILDING CODE 2010 AND ASCE 7-10. WIND LOAD PER ASCE 7-10. BUILDING RISK CATEGORY: II. WIND EXPOSURE: C.

26983

- DEAD LOAD:
- A. EQUIPMENT WEIGHT PER MANUFACTURER DATA. SEISMIC LOAD DOES NOT GOVERN THIS DESIGN.

DRAWING SHEE **INDEX**

SHEET	SHEET DESCRIPTION	R
T1	TITLE SHEET	
C1	SITE PLAN	
C1.1	LANDSCAPE MITIGATION PLAN	
C2	ELEVATION	
C3	DETAILS	
C4	DETAILS	
SP1	SPECIFICATIONS	
SP2	SPECIFICATIONS	

<u>APPROVALS</u>

PROJECT MANAGER:

DATE:

300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 FL COA#:

NE ZEM St E Nave Balin Si (845) NE 246 W Thurgood Marshall DRAWN BY: ten god & Elementary School Los Lain 18 228d St (<u>E45</u>) h St Archive 900 NW 21st St Jordanpageb PARTY 19th Co NUM 1999 NO. (415) WWW. NAM TO SHE EX 1989 Birth Gr · 新元 (2) weder 65th St. E 1000 17th St MORETHANJUSTALOOK. 多域(強度 Z **NODE 62 1** NOT 1820 CH MANAGE COM HE HOSE EN W 16th Ct NW 15th 品 明 特 国 900 9 Golden Heights NW 16th CI 8 Thy 15th Ft ... NW 15th Pl AL DET SI NW 12th St NW.16m St April 1880 CE (545) "NW 15th Ct" ROAD 1888 ST Chrysalls tade 14th CL NW 14th Ct 7 MW 14th Ot Center MW 14th St NW 14th St Nº 19th 01 1869 10E 62 Middle fine NW 13th C NW tath Ct . NE 19th 31 시는 10% 의 13 13 13 Z 60,07 1307 84 NW 13th St NW 12th Ct NN 8th Dillard Park (235) (EII) = HE APPLET 1100 Panther Ln ig (I) NW.11th St Ave (E) [(425) E Surino Old (838) W Sunrise Blvd (838) (EE) WILLIESS ON NW 9th Lin NW 9th PI Chateau Park Dr SITE#: Mills Can St 1100 NW 8th Pi MW 8th Ct NW Brit Ct 105 8th 51 Realty NW 8th St NW 8th St Flagher Willage NW 7th Ci NW 7th PI Masters NW 7th Ct NE 7m 94 MAN 7th St NW 7th St NW 11th St MW 6th PI NW 6th Pi PSYSY FOR CH 700 NW 6th Ct 開師即 MAY RETURN ST NW 6th St NW 8th St DRIVING SPECIFIC LOCATION MAP **DIRECTIONS**

FROM THE CROWN CASTLE OFFICE IN MIAMI, HEAD WEST ON NW 64TH ST TOWARD NW 87TH AVENUE. TURN RIGHT ONTO NW 87TH AVENUE. TURN RIGHT ONTO NW 74TH STREET. TURN LEFT TO MERGE ONTO FL-826 N. TAKE THE EXIT TOWARD FL-826 E/BEACHES. MERGE ONTO FL-826 E/FL-91 S. TURN LEFT ONTO NW 2ND AVENUE. TAKE THE RAMP ON THE LEFT ONTO I-95 N TAKE EXIT 29A TO MERGE ONTO FL-838 E/W SUNRISE BLVD. TURN LEFT ONTO POWERLINE ROAD. TURN RIGHT ONTO NW 12TH STREET. DESTINATION WILL BE ON THE LEFT.



UNDERGROUND SERVICE ALERT CALL TOLL FREE 1-800-432-4770 48 HOURS BEFORE YOU DIG

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ADDRESS: 891 NW 12TH STREET FORT LAUDERDALE, FL 33311

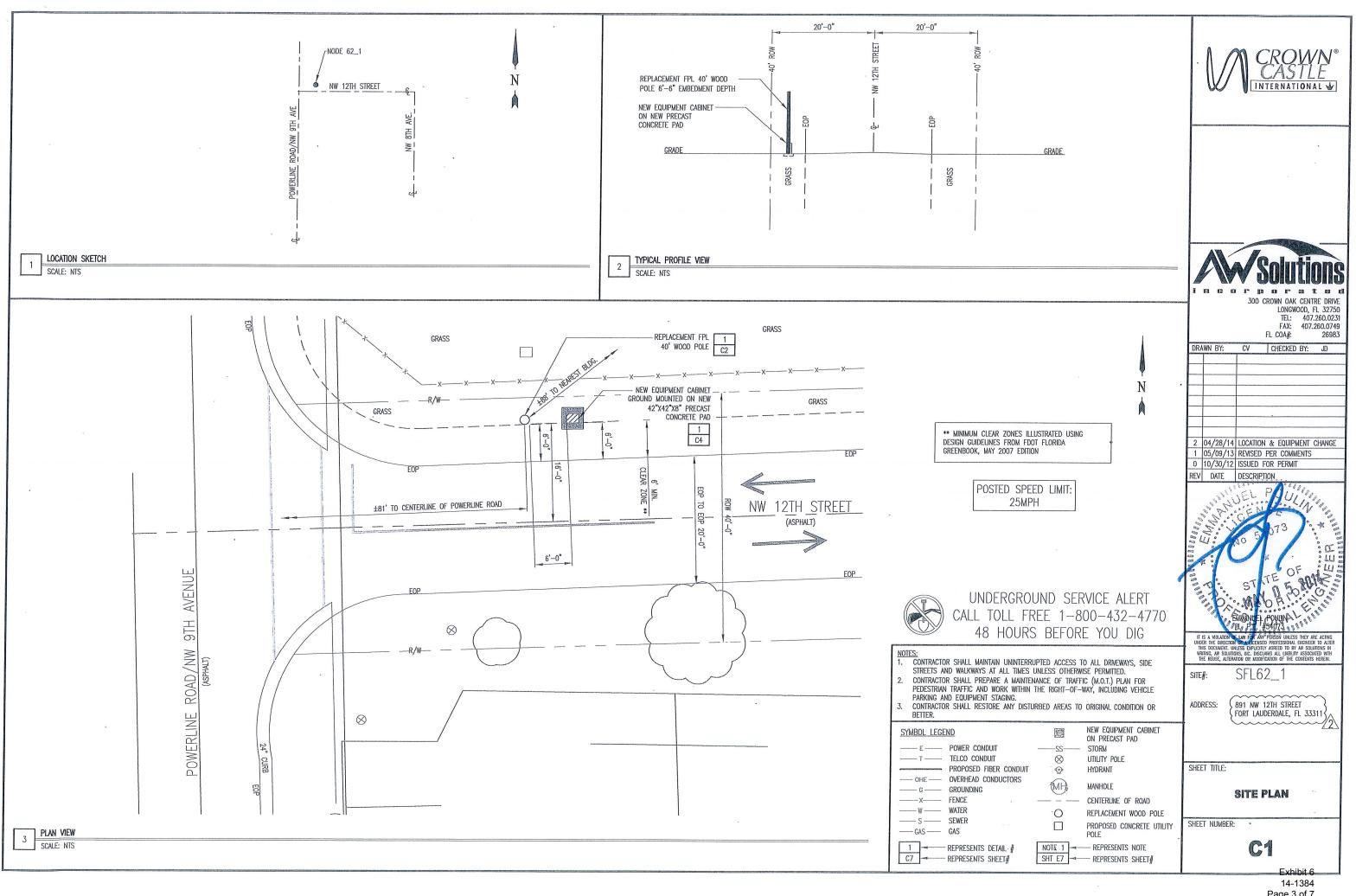
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SHEET NUMBER:

Exhibit 6 14-1384

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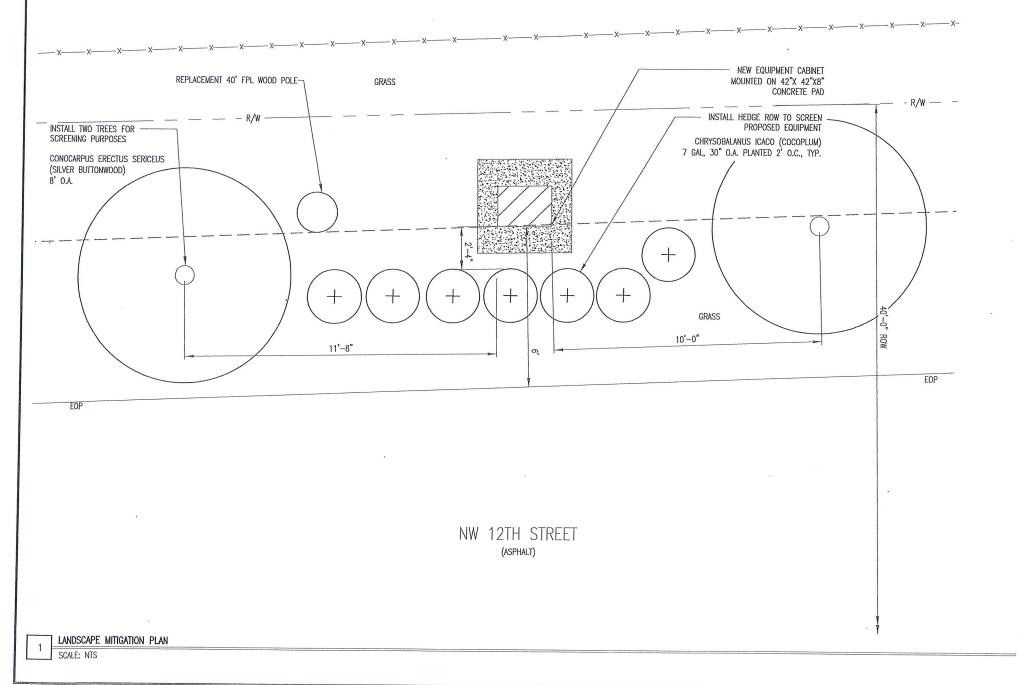


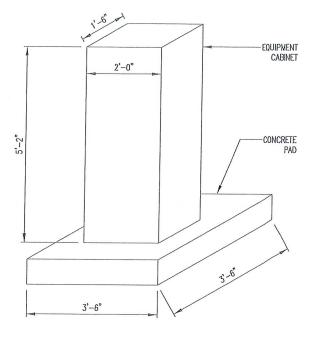
Page 3 of 7

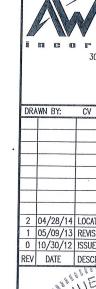
LANDSCAPE NOTES:

- 1. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER, AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS" PART I, 1963, AND PART 11, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, FLORIDA.
- IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.

 ALL PLANT BEDS TO RECEIVE 10" OF 50/50 MIX. 50% SAND, 50% MUCK.
- IT SHALL BE THE RESPONSIBILITY OF THE LANDSACPE CONTRACTOR TO PROVIDE A SMOOTH UNIFORM GRADE PRIOR TO INSTALLING SOD.
- ALL MULCH TO BE 'FLORAMULCH' MELALEUCA MULCH.
- 6. ALL TREES TO BE STAKED IN THE FIELD WITH APPROVED NURSERY STANDARD METHODS.
- 7. TREES/PALMS SHALL BE INSTALLED A MIN. OF 3' FROM UNDERGROUND UTILITIES.









UNDERGROUND SERVICE ALERT CALL TOLL FREE 1-800-432-4770 48 HOURS BEFORE YOU DIG

110	700		
NO	TES:		
1.	CONTRACTOR SHALL MAINTAIN UNINTERRUPTE	D ACCESS	TO ALL DRIVEWAYS, SIDE
1	STREETS AND WALKWAYS AT ALL TIMES UNLE	SS OTHERW	VISE PERMITTED.
2.	CONTRACTOR SHALL PREPARE A MAINTENANC	F OF TRAFF	FIC (MOT) PLAN FOR
1	PEDESTRIAN TRAFFIC AND WORK WITHIN THE		
1	PARKING AND EQUIPMENT STAGING.	1110111 01	IIII, IIIOLODIIIO VLIIIOLL
3	CONTRACTOR SHALL RESTORE ANY DISTURBE	U YDEYC TO	ODICINIAL CONDITION OD
٥.	BETTER.	D VIVEYO 10	ORIGINAL COMMITTON OR
acinomas.	DLITER,		
(2)	YMBOL LEGEND	ক্রেক্স	NEW EQUIPMENT CABINET
21	IMDUL LLULIND		ON PRECAST PAD

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	SYMBOL LEGE	<u>ND</u>	2	NEW EQUIPMENT CABINET ON PRECAST PAD
	—— E ——	POWER CONDUIT	SS	STORM
	—— T ——	TELCO CONDUIT	\otimes	UTILITY POLE
	AND DESCRIPTION OF THE PERSON	PROPOSED FIBER CONDUIT	•	HYDRANT
	OHE	OVERHEAD CONDUCTORS	500	
	G	GROUNDING	MH	MANHOLE
	X	FENCE .		CENTERLINE OF ROAD
	W	WATER		REPLACEMENT WOOD POLE
	—— S ——	SEWER	Ë	PROPOSED CONCRETE UTILITY
	GAS	GAS		POLE POLE
	1	REPRESENTS DETAIL #	NOTE 1	REPRESENTS NOTE
		REPRESENTS SHEET#	SHT F7	REPRESENTS SHEET#



300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749

FL COA#:

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891 NW 12TH STREET ADDRESS: FORT LAUDERDALE, FL 33311

SHEET TITLE:

SITE#:

LANDSCAPE **MITIGATION**

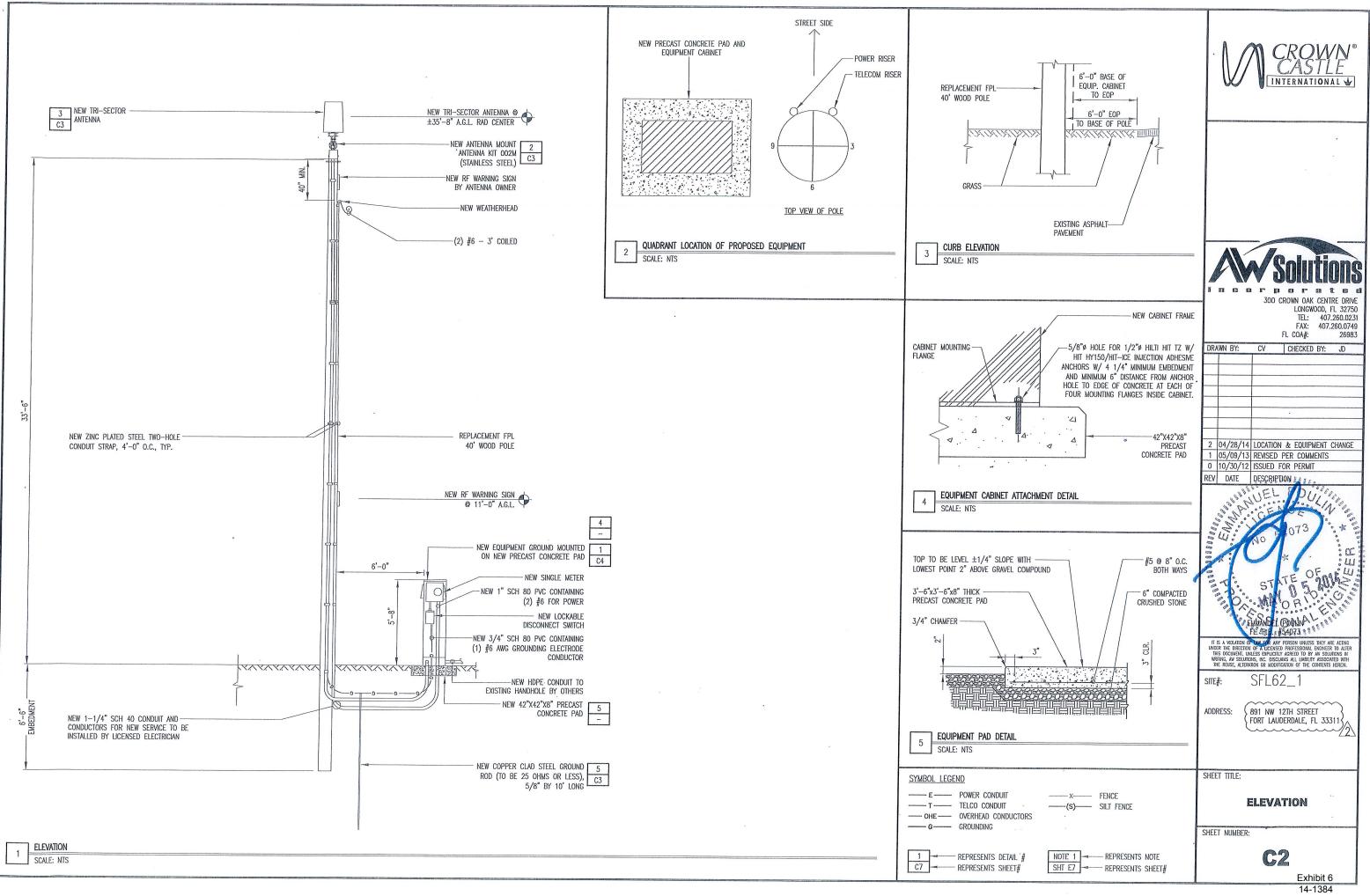
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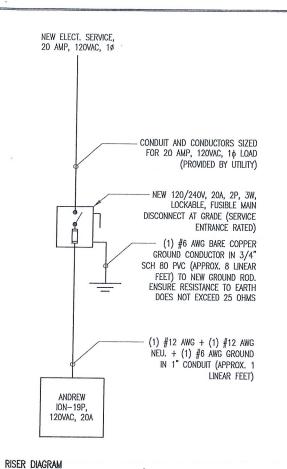
Exhibit 6

14-1384

Page 4 of 7

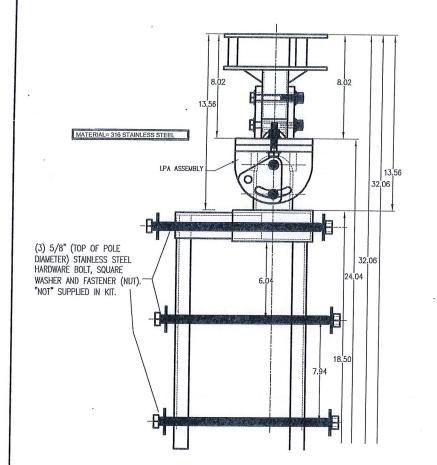


Page 5 of 7



SCALE: NTS

- SHORT CIRCUIT CURRENT RATING OF FUSIBLE MAIN DISCONNECT: 100kA. PER FLORIDA BUILDING CODE 2010: FEEDER CONDUCTORS ARE SIZED FOR A
- MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD OF 20A. PER FLORIDA BUILDING CODE 2010: BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD. HOWEVER, THIS DESIGN CONTAINS NO BRANCH CIRCUITS.
- ' ALL CONDUCTORS ARE TO BE COPPER WIRE WITH INSULATION TYPE XHHW.
- ALL ABOVE GRADE CONDUIT IS TO BE UV RESISTANT SCHEDULE 80 PVC. ALL BELOW GRADE CONDUIT IS TO BE SCHEDULE 40 PVC.



RESTORE SURFACE TO MATCH

ANTENNA MOUNTING KIT (002M)

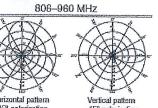
SCALA DIVISION

Kathrein's dual band antennas are ready for 3G applications, covering all existing wireless bands as well as all spectrum under consideration for future systems, AMPS, PCS and 3G/UMTS.

- Wide band operation.
- · Exceptional intermodulation characteristics.
- High strength fiberglass radome.
- * Internal diplexers allow the +45° polarization (upper and lower bands) to be combined on one connector and the -45° polarization (upper and lower bands) to be combined on a second connector for each antenna.

Frequency range	808-960 MHz 1710-2170 MHz		
VSWR	s1.5:1		
Impedance	50 ohms		
Intermodulation (2x20w)	BM3: <-150 dBc		
Polarization	+45° upper and lower band -45° upper and tower band		
Connector	6 x 7-16 DIN female		
Isolation intrasystem intersystem	>30 dB >40 dB (806-960 // 1710-2170 MHz)		
Radome color	Brown, gray or dark gray (custom colors available at additional cost)		
Weight	50 lb (22.7 kg)		
Height	24 inches (609 mm)		
Radome diameter	16 inches (407 mm)		
Equivalent flat plate area	1.6 ft² (0.148 m²)		
Wind survival rating*	100 mph (160 kph)		
Sikipping dimensions	32 x 20 x 19 inches (B13 x 508 x 483 mm)		
Shipping weight	52 lb (29.6 kg)		
Mounting	Designed to be mounted on top of a utility pole using a custom mounting bracket supplied by the customer.		





1710-2170 MHz

	XI
d pattern	Vertical p
arization	±45°-pola

NEW TRI-SECTOR ANTENNA

-(1) #6 AWG GROUND IN

NEW LIGHTNING ARRESTOR

3/4" CONDUIT

Specifications:	906-866 MHz	824-894 MHz	880-960 MHz	1710-1890 MHz	1850-1990 MHz	1920-2170 MHz
Gain	组.1.16	11.4 dBi	11.B dEi	£2.5 dBi	19.3 dBi	13.6 dBi
Front-to-back ratio (180° ± 30°)	>23 dB (co-polar) >20 dB (total power)	>23 dB (co-polar) >20 dB (total posser)	>25 dB (co-polar) >22 dB (total power)	>25 dB (co-polar) >22 dB (total power)	>25 dB (po-polar) >22 dB (lotal power)	>25 dB (co-polar) >22 dB (total power)
Maximum input power	250 wetts (at 50°C)	250 watts (et 50°C)	250 waits (at 50°C)	200 watts (et 50°C)	200 waits (et.50°C)	200 watta (et 50°C)
+45° and -45° polerization dtbiwmsed latroxined	67° (hali-power)	66° (half-power)	64" (heli-power)	66° (half-poser)	60° (half-power)	60° (half-power)
+45° and -45° polerization vertice! beemwidth	84° (half-power)	33º (half-power)	30° (heli-power)	20° (half-power)	18° (half-power)	17.5° (half-power)
Cross polar ratio Main direction 0° Sector ±60°	25 dB (typical) >10 dB	25 dB (typôcal) >40 dB	25 d8 (hpical) >{0 d8	16 dB (typical) ≥10 dB	18 dB (typical)	20 dB (typical)

SCALE: NTS

ANTENNA SPECIFICATIONS

SCALE: NTS

REV DATE DESCRIPTION

2 04/28/14 LOCATION & EQUIPMENT CHANGE

1 05/09/13 REVISED PER COMMENTS

0 10/30/12 ISSUED FOR PERMIT

300 CROWN OAK CENTRE DRIVE

FL COA#:

CV CHECKED BY: JD

DRAWN BY:

LONGWOOD FL 32750

TEL: 407.260.0231

FAX: 407.260.0749

26983

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ADDRESS:

891 NW 12TH STREET FORT LAUDERDALE, FL 33311

SHEET TITLE:

DETAILS

SHEET NUMBER:

Exhibit 6

EXOTHERMIC WELD (2) #6 AWG GROUNDING ELECTRODE CONDUCTOR GRADE GROUND ROD (COPPERCLAD STEEL), 5/8"ø X 10'-0" ANTENNA GROUNDING SCHEMATIC

GRADE

GROUND ROD DETAIL

SCALE: NTS

GROUND ROD TO BE DRIVEN 10' VERTICALLY.

ORIGINAL CONDITION AND THICKNESS OF EXISTING SURFACE - Undisturbed COMPACTED BACKFILL (SUITABLE ON SITE MATERIAL) - 6" WARNING TAPE TELCO CONDUIT WHERE APPLICABLE (REFER TO NOTE 4)

NEW UNDERGROUND CONDUIT(S) TRENCHING DETAIL (IF APPLICABLE, REFER TO SITE PLAN)

SCALE: NTS

PROVIDE SCHEDULE 40 PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.

PROVIDE SCHEDULE 80 PVC CONDUIT AND ELBOWS AT STUB UP LOCATIONS (i.e. SERVICE POLE, BTS EQUIPMENT, ETC.).

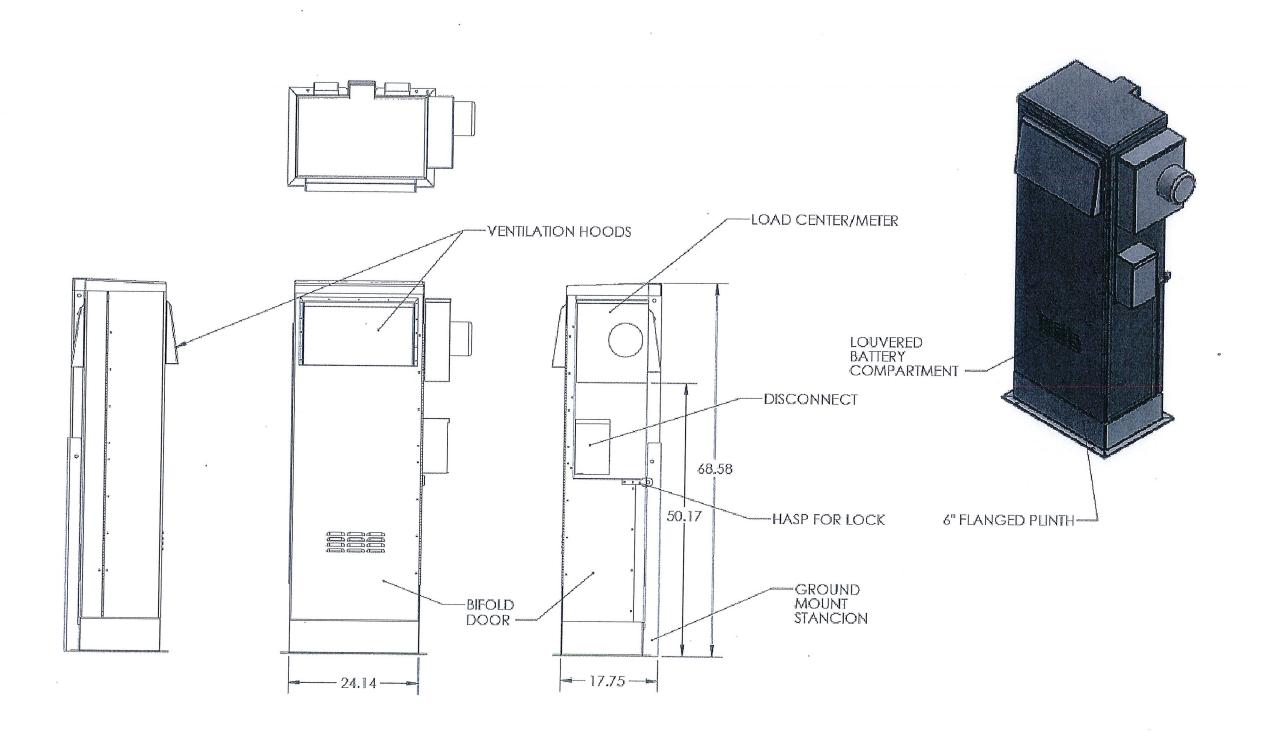
INSTALL UTILITY PULLBOXES PER NEC.

FINISHED GRADE, STONE, ASPHALT,-

CONCRETE PAVING OR SOD. MATCH SLOPE

SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENTS.

CONDUIT/TUBING CONTAINING FIBER OPTIC CABLING TO BE FILLED WITH GEL TO PREVENT WATER PENETRATION, COMMONLY REFERRED TO AS "ICKY PICK."







300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 FL COA#: 26983

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2	04/28/14	LOCATIO	N & EQUIPMENT	CHANGE
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ADDRESS:

891 NW 12TH STREET FORT LAUDERDALE, FL 33311

SHEET TITLE:

DETAILS

SHEET NUMBER:

Exhibit 6

14-1384

SCALE: NTS

SHROUD KIT LOSH-BBU-1 GROUND MOUNT