



PERMIT NO. CC13-04
District 3

Applicant Name and Job Number_Crown Castle NG East LLC SFL 61_1
Job Address and Location 1510 NW 7th St.
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 ☐ C.2 ☐ C.3 ☐ C.4 ☐ C.6 ☐ C.7 ☐ C.12 (Size) (Height) (Front Yard) (Corner Yard) (Separation) (Exist. Facility) (Collector)
<ul> <li>With the exception of any waivers that may be checked above, the proposed at grade facilities conform to the requirements in Section 25-100.1 of the Code</li> <li>Notice of the pending application has been provided to all property owners abutting public rights-of-way within one hundred fifty (150) feet of the proposed site and to the relevant homeowner association, in accordance with Section 25-100.1.E.5 of the Code.</li> <li>The proposed site will be maintained by Crown Castle in accordance with the approved Graffiti Mitigation Plan dated</li></ul>
As an authorized representative of Crown Castle, I certify under oath that the forgoing statements are true and correct.
Armando Hernandez Printed Name of Authorized Crown Castle Agent Signature of Authorized Crown Castle Agent
Sworn to and subscribed before me this
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 prior to starting work at (954) 828-5649



CLIENT:

**CROWN CASTLE** SFL61\_1

ADDRESS:

CLIENT SITE ID#:

1510 NW 7TH STREET FORT LAUDERDALE, FLORIDA 33311

SITE TYPE:

REPLACEMENT AT&T 40' WOOD POLE

PROPERTY INFORMATION SITE COORDINATES: JURISDICTION:

26.13099 26.13099 CITY OF FORT LAUDERDALE

CROWN CASTLE 8555 NW 64TH STREET MIAMI, FL 33166

## PROJECT TEAM

PROJECT MANAGEMENT FIRM: CROWN CASTLE 8555 NW 64TH STREET MIAMI, FL 33166

ENGINEERING FIRM: ADDRESS:

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

26983

## FLORIDA COA#: DESIGN CRITERIA;

CONTACT: PHONE:

- FLORIDA BUILDING CODE 2010 AND ASCE 7-10. WIND LOAD PER ASCE 7-10.
   A. ULTIMATE WIND SPEED: 170 MPH.
   B. BUILDING RISK CATEGORY: II.
- C. WIND EXPOSURE: C.
- 2. DEAD LOAD:
  A. EQUIPMENT WEIGHT PER MANUFACTURER DATA.
  3. SEISMIC LOAD DOES NOT GOVERN THIS DESIGN.

DRAWING SHI INDEX

**APPROVALS** 

1EE1	SHEET DESCRIPTION	R
T1	TITLE SHEET	
C1	SITE PLAN	
1.1	LANDSCAPE MITIGATION PLAN	
C2	ELEVATION	
C3	DETAILS	
C4	DETAILS	
SP1	SPECIFICATIONS	
P2	SPECIFICATIONS	

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	CROWN° CASTLE
W	INTERNATIONAL &

DATE: PROJECT MANAGER: UTILITY:

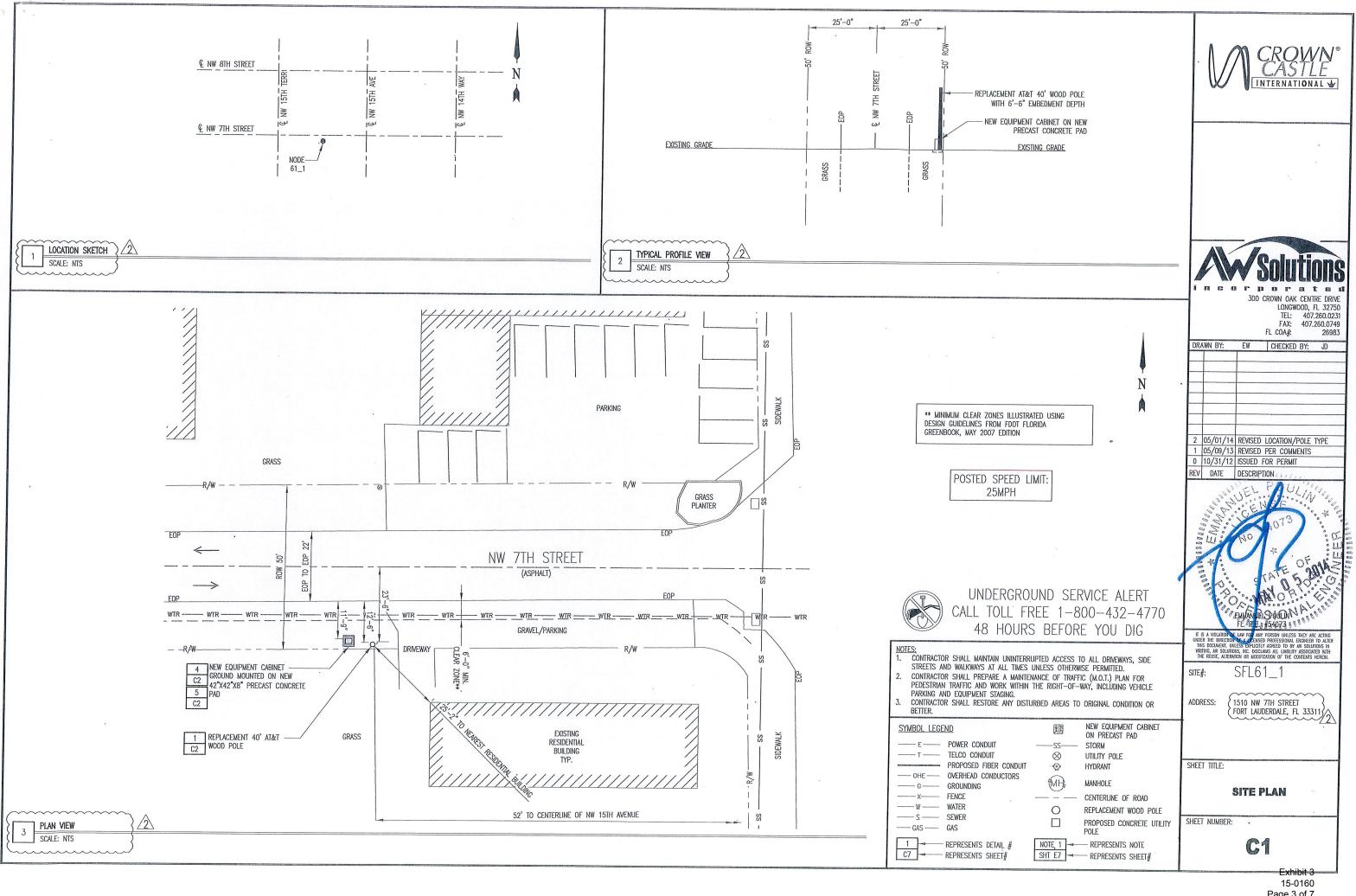
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300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750

NW 50th St - 图11 870 전 명이 기계 등 전 기계	N. W.	TEL: 407.260.0; FAX: 407.260.07 FL COA#: 269
Oakland &	NW 14th Ave  NW 14th Way  W 14th Way  W 15th Ave  V16th Ave	RAWN BY: EW   CHECKED BY: JD
Wilton Wilton	Midnight Express Power Boats  R R R R R R R R R R R R R R R R R R	05/01/14 REVISED LOCATION/POLE TYPE 05/09/13 REVISED PER COMMENTS 10/31/12 ISSUED FOR PERMIT
338 (441) 9 (845) (37)  Roosevelt Gardens (838) Washington Lauderdale (838) (838)	NW 15th Way  NW 15th Way  NW 15th Way  NW 15th Way	DATE DESCRIPTION
Plantation  Broward  Estates (842) W Broward Blvd (842) East Fort Lauderdale  Lauderdale	Mt Olivet (h) SDA Church (h)	ATE OF A
Country Club Melrose Park  South Fort Park  Riverland Lauderdale Village  Country Club Melrose Park  Fort South Fort SE 17th St		EMANUEL POULING.  FILE STOOM DIVES THEY ARE ACTING OF THE DIRECTION OF A DICTING PROFESSION, ENGINEER TO ALTER HIS DOCUMENT, UNESS EPUCITY ASSECT TO BY AN SOLUTIONS IN RITHING, ANY SOLUTION, INC. DISCARDAS ALL LURSHIP ASSOCIATED WITH HE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.  E#:  SFL61 1
B62) Port Everglades Expy	Sickle Cell Disease Association	ORESS: (1510 NW 7TH STREET FORT LAUDERDALE, FL 33311)
(441) (Fort	NW 6th St NW 6th St SHEE	ET ITLE:
DRIVING DIRECTIONS (SENERAL VICINITY MAP)	SPECIFIC LOCATION MAP	TITLE SHEET
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 NORTH. TAKE THE EXIT TOWARD FL-826 E/BEACHES. MERGE ONTO FL-826 EAST. TURN LEFT ONTO NW 2ND AVE (SIGNS FOR INTERSTATE 95 N). TAKE THE RAMP ON THE LEFT ONTO I—95 NORTH. TAKE EXIT 29A TO MERGE ONTO FL-838 E/W SUNRISE BLVD. TURN RIGHT ONTO NW 16TH AVENUE. TURN LEFT ONTO NW 7TH STREET. DESTINATION WILL BE ON THE RIGHT.	UNDERGROUND SERVICE ALERT CALL TOLL FREE 1-800-432-4770 48 HOURS BEFORE YOU DIG	ET NUMBER:



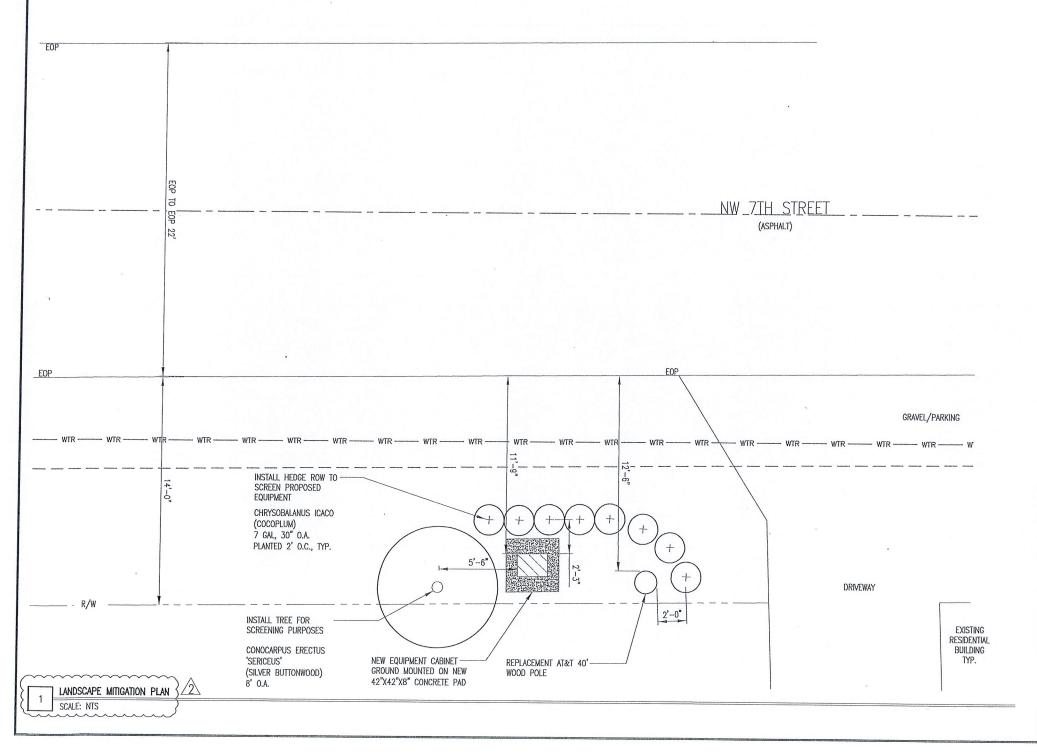
Exhibit 3 15-0160 Page 2 of 7

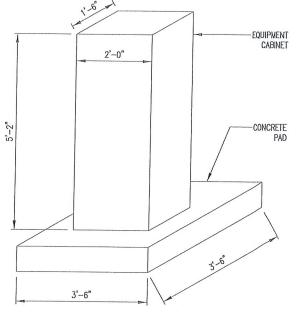


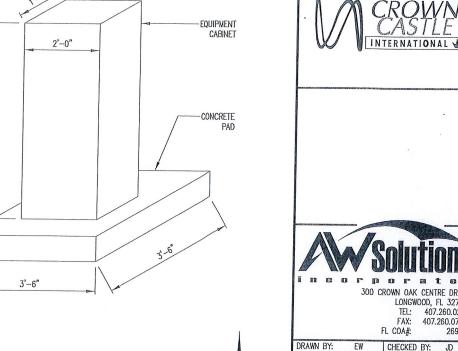
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- LANDSCAPE NOTES:
  1. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER, AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS" PART I, 1963, AND PART 11, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, FLORIDA.
- 2. 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.
- 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.









48 HOURS BEFORE YOU DIG CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED. CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN FOR PEDESTRIAN TRAFFIC AND WORK WITHIN THE RIGHT-OF-WAY, INCLUDING VEHICLE PARKING AND FOUIPMENT STAGING CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS TO ORIGINAL CONDITION OR

SYMBOL LEGE	<u>ND</u>		NEW EQUIPMENT CABINET ON PRECAST PAD
—— E ——	POWER CONDUIT	SS	STORM
— T —	TELCO CONDUIT	$\otimes$	UTILITY POLE
CAN STREET, ST	PROPOSED FIBER CONDUIT	•	HYDRANT
OHE	OVERHEAD CONDUCTORS	500	HANDO F
—— G ——	GROUNDING	™H,	MANHOLE
	FENCE .		CENTERLINE OF ROAD
W		0	REPLACEMENT WOOD POLE
S		n	PROPOSED CONCRETE UTILITY
GAS	GAS	L1	POLE
1	REPRESENTS DETAIL #	NOTE, 1	REPRESENTS NOTE





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

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2	05/01/14	REVISED	LOCATION/POLE	TYPE
1	05/09/13	REVISED	PER COMMENTS	
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SFL61\_1 SITE#:

(1510 NW 7TH STREET FORT LAUDERDALE, FL 33311) ADDRESS:

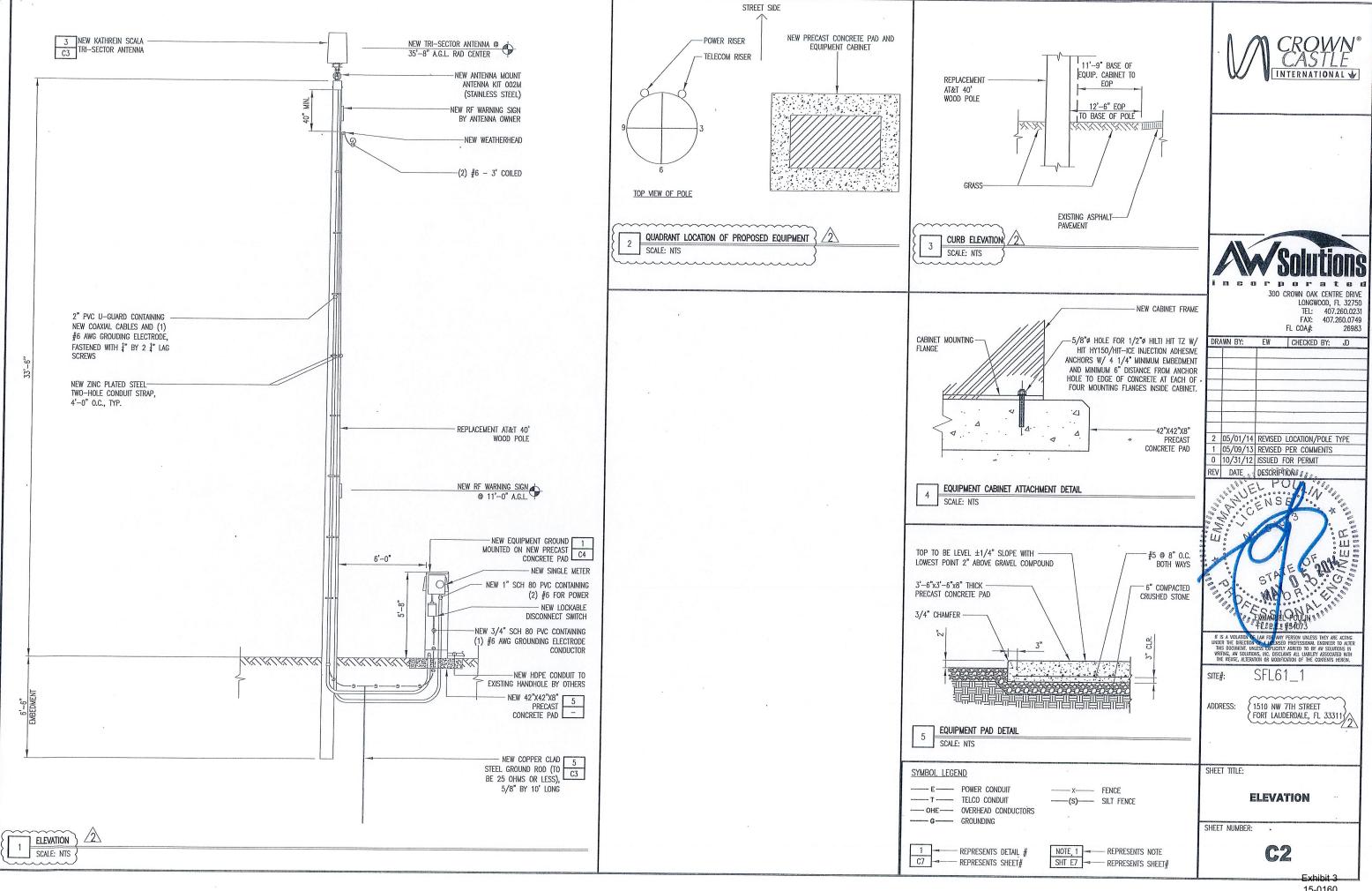
SHEET TITLE: LANDSCAPE **MITIGATION PLAN** 

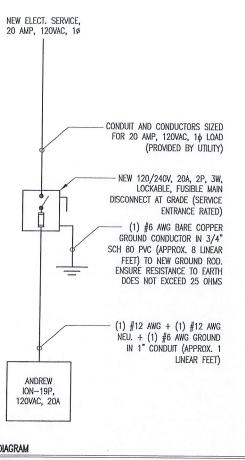
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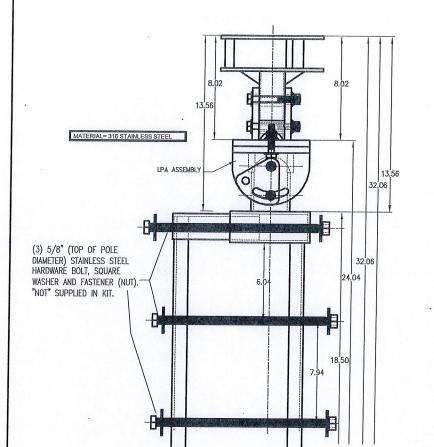




## RISER DIAGRAM SCALE: NTS

- 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.
- 3. 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.



ANTENNA MOUNTING KIT (002M) SCALE: NTS

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	806–960 MHz 1710–2170 MHz
VSWR	<1.5:1
Impedance	50 ohma
Intermodulation (2x20w)	BM3: ≪150 dBc
Polarization	+45° upper and lower band -45° upper and lower band
Connector	6 x 7-16 DIN female
Isolation intrasystem intersystem	>30 dB >40 dB (806-960 // 1710-2170 MHz)
Radoma color	Brown, gray or dark gray (custom cotors 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 servival rating"	100 mph (160 kph)
Shipping dimensions	32 x 20 x 19 inches (813 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 bracker supplied by the customer.

806-866 MHz

11.1 趣

+45° and -45° polarization 34° (half-power) 33° (half-power)

GRADE

824-894 MHz

>23 dB (cu-polar) >23 dB (cu-polar) >25 dB (cu-polar) >20 dB (total power) >20 dB (total power) >22 dB (total power)

250 wetts (at 50°C) 250 watts (at 50°C) 250 wetts (at 50°C)

25 dB (typical)

11.4 dBi

67° (hali-power) 66° (half-power)

RAD-OFF MINZ

64° (heli-power)

30° (helf-power)

25 d8 (typical)

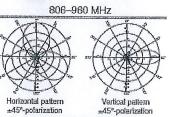
GRADE

SCALE: NTS

ANTENNA GROUNDING SCHEMATIC

11.8 dFi





1710-2170 MHz



16 dB (hpical)

Vertical pattern

1710-1890 MHz	1850-1990 MHz	1820-2170 MHz
f2.5 dBi	13.3 dBi	13.6 dBi
>25 dB (co-polar) >22 dB (total power)	>25 dB (co-poler) >22 dB (lotal power)	>25 dB (co-polar) >22 dB (losal power)
200 walts (et 50°C)	200 waits (at 50°C)	200 watts (et 50°C)
66° (half-power)	60° (half-power)	60° (half-power)
20° (half-power)	18° (half-power)	17.5° (half-power)

18 dB (typical) >10 dB

20 dB (typical) >10 dB

NEW TRI-SECTOR ANTENNA

(1) #6 AWG GROUND IN

NEW LIGHTNING ARRESTOR

3/4" CONDUIT

2 05/01/14 REVISED LOCATION/POLE TYPE

1 05/09/13 REVISED PER COMMENTS

0 10/31/12 ISSUED FOR PERMIT

REV DATE DESCRIPTION

300 CROWN OAK CENTRE DRIVE

FL COA#:

DRAWN BY:

EW CHECKED BY: JD

LONGWOOD, FL 32750

TFI: 407 260 0231

FAX: 407.260.0749

LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT. UNLESS EXPLICITLY AGREED TO BY AW SOLUTIONS IN WRITING, AW SOLUTIONS, INC. SICKLAUS ALL UBBILTY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SFL61 1

ADDRESS: (1510 NW /III SINCE, FORT LAUDERDALE, FL 33311) 1510 NW 7TH STREET

SHEET TITLE:

DETAILS

SHEET NUMBER:

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RESTORE SURFACE TO MATCH ORIGINAL CONDITION UNDISTURBED COMPACTED BACKFILL - 6" WARNING TAPE (REFER TO NOTE 4)

- EXOTHERMIC WELD 2'-6" MIN. FROST DEP (2) #6 AWG GROUNDING ELECTRODE CONDUCTOR GROUND ROD (COPPERCLAD STEEL), 5/8"ø X 10'-0"

Specifications: Gain

Front-to-back ratio

Cross polar ratio Main direction

SCALE: NTS

Maximum input power

+45° and -45° polarization bonzontal beamwidth

 $(180^{\circ} \pm 30^{\circ})$ 

ANTENNA SPECIFICATIONS

GROUND ROD DETAIL

GROUND ROD TO BE DRIVEN 10' VERTICALLY.

SCALE: NTS

CONCRETE PAVING OR SOD. MATCH SLOPE (SUITABLE ON SITE MATERIAL) TELCO CONDUIT WHERE APPLICABLE 6" MIN.

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.).

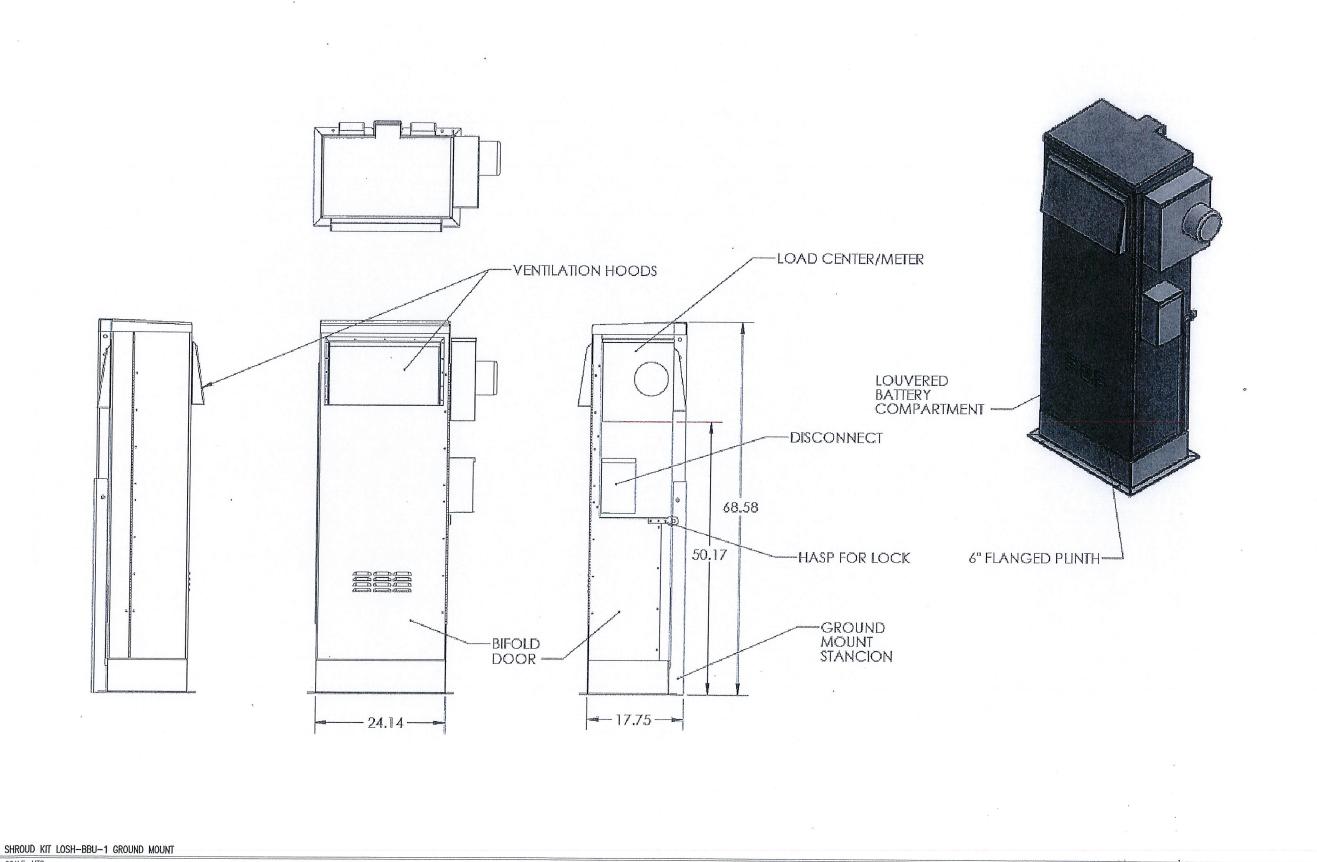
INSTALL UTILITY PULLBOXES PER NEC.

FINISHED GRADE, STONE, ASPHALT, -

AND THICKNESS OF EXISTING SURFACE

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."



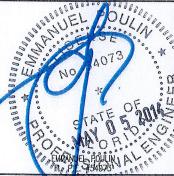




300 CROWN OAK CENTRE DRIVE
LONGWOOD, FL 32750
TEL: 407.260.0749
FL COA#: 26983

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				No.
2	05/01/14	REVISED	LOCATION /POLE	TYPF

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	2	05/01/14	REVISED LOCATION/POLE TYPE
	1	05/09/13	REVISED PER COMMENTS
	0	10/31/12	ISSUED FOR PERMIT
	REV	DATE	DECODIDITION



IT IS A VOLATION SELMY FOR ANY PERSONNAL BENEFIX REACTION. UNDER THE DIRECTION STOLL CONSECT PROFESSIONAL BENEFIES TO ALTHIS DOCUMENT, UNITES EMPLOYELY ARRED TO BY AW SOLUTIONS, IN SOLUTIONS, IN. DISCLAULES ALL BURLITY ASSOCIATED WITH PREUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREM

SITE#: SFL61\_1

ADDRESS: (1510 NW 7TH STREET FORT LAUDERDALE, FL 33311)

SHEET TITLE:

DETAILS

SHEET NUMBER: -

CA

Exhibit :

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