



**CITY OF FORT LAUDERDALE  
ENGINEERING DIVISION  
APPLICATION TO INSTALL AT GRADE  
COMMUNICATIONS SERVICE FACILITIES**

**PERMIT NO. CC13-12  
District 3**

5/21/14  
6

Applicant Name and Job Number Crown Castle NG East LLC SFL 63\_2

Job Address and Location 421 NW 12 Street

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 (Size)
- C.2 (Height)
- C.3 (Front Yard)
- C.4 (Corner Yard)
- C.6 (Separation)
- C.7 (Exist. Facility)
- C.12 (Collector)

- 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
- 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.
- The proposed site will be maintained by Crown Castle in accordance with the approved Graffiti Mitigation Plan dated 04/04/2013, which is on file with the City Engineer
- A landscaping maintenance commitment letter from the adjacent property owner and relevant home owner association is attached to this application.
- Crown Castle shall be responsible for maintaining landscaping
- The proposed at grade facilities depicted on the attached plans are completely located in the public rights-of-way.

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  
Armando Hernandez Signature of Authorized Crown Castle Agent

Sworn to and subscribed before me this 16<sup>TH</sup> day of July, 2008, 2014  
 Notary Public, State of Florida My Commission Expires 8-23-16



(Do not write below this line)

Conceptual approval date \_\_\_\_\_ by \_\_\_\_\_, Subject to the following conditions:

- 1) A detailed visual mitigation plan is required

Final Permit approval date \_\_\_\_\_ by \_\_\_\_\_ Final Inspection date \_\_\_\_\_ by \_\_\_\_\_

\*\*Notify Engineering Permits Division 24 hours prior to starting work at (954) 828-5649



# CROWN CASTLE SFL63\_2

CLIENT :

CLIENT SITE ID#:

ADDRESS:

421 NW 12TH STREET  
FORT LAUDERDALE, FLORIDA 33311

SITE TYPE:

**NEW CROWN CASTLE 40' CONCRETE POLE**

### PROPERTY INFORMATION

SITE COORDINATES: 26.14031°  
-80.14856°  
JURISDICTION: CITY OF FORT LAUDERDALE

PROPERTY OWNER: CROWN CASTLE  
ADDRESS: 8555 NW 64TH STREET  
MIAMI, FL 33166

### PROJECT TEAM

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

ENGINEERING FIRM: AW SOLUTIONS, INC.  
ADDRESS: 300 CROWN OAK CENTRE DR.  
LONGWOOD, FL 32750

CONTACT: SHANE HAFNER  
PHONE: 407.260.0231 EXT. 120  
FLORIDA COA#: 26983

### DESIGN CRITERIA:

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

### DRAWING INDEX

SHEET	SHEET DESCRIPTION	REV
T1	TITLE SHEET	2
C1	SITE PLAN	2
C1.1	LANDSCAPE MITIGATION PLAN	2
C2	ELEVATION	2
C3	DETAILS	2
C4	DETAILS	2
SP1	SPECIFICATIONS	2
SP2	SPECIFICATIONS	2

### APPROVALS

PROJECT MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_

CARRIER: \_\_\_\_\_

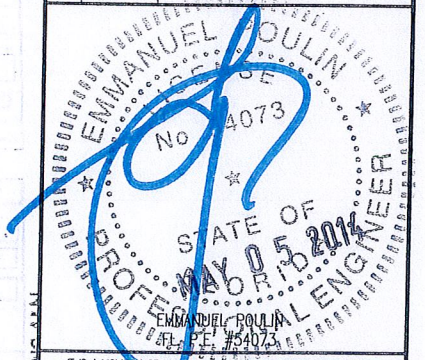
UTILITY: \_\_\_\_\_



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

DRAWN BY: EW CHECKED BY: JD

REV	DATE	DESCRIPTION
2	05/05/14	REVISED LOCATION/EQUIPMENT
1	05/09/13	REVISED PER COMMENTS
0	10/30/12	ISSUED FOR PERMIT



IT IS A VIOLATION OF 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. DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SITE#: SFL63\_2

ADDRESS: 421 NW 12TH STREET  
FORT LAUDERDALE, FL 33311

SHEET TITLE:

**TITLE SHEET**

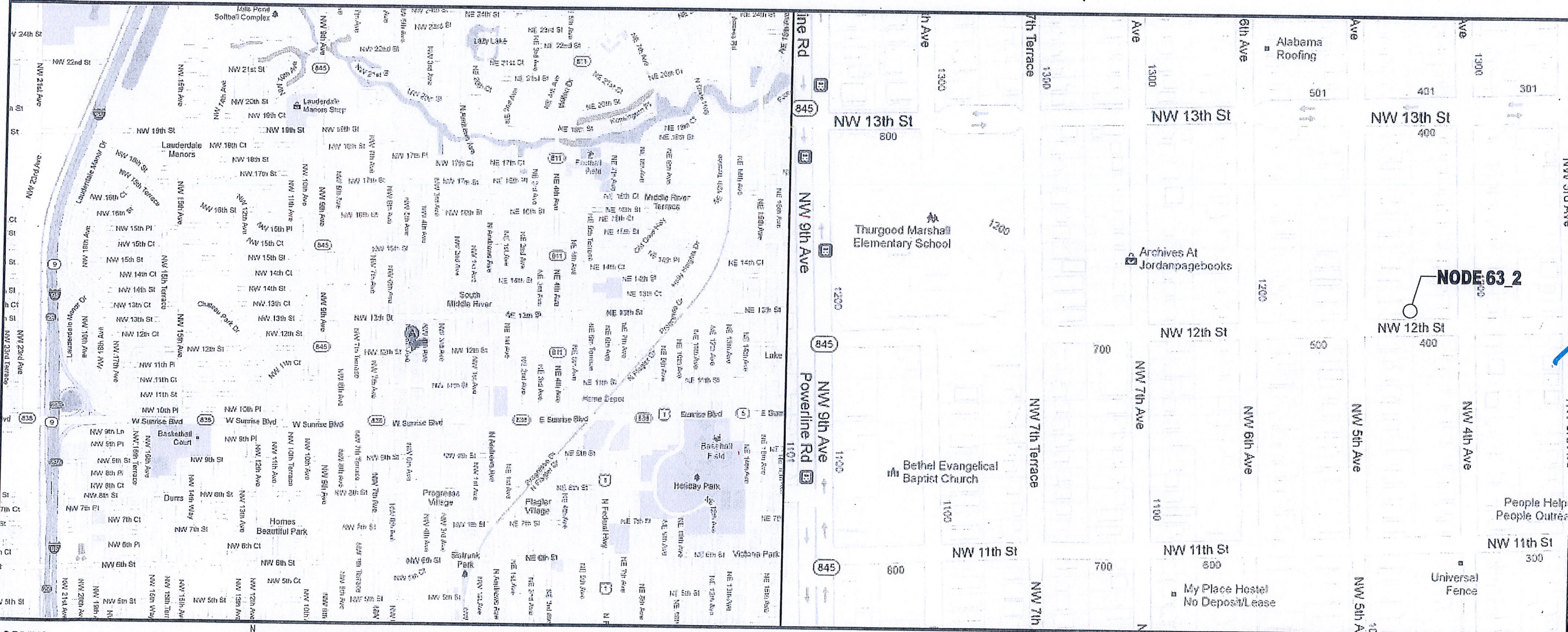
SHEET NUMBER:

**T1**

Exhibit 9

14-1384

Page 2 of 7

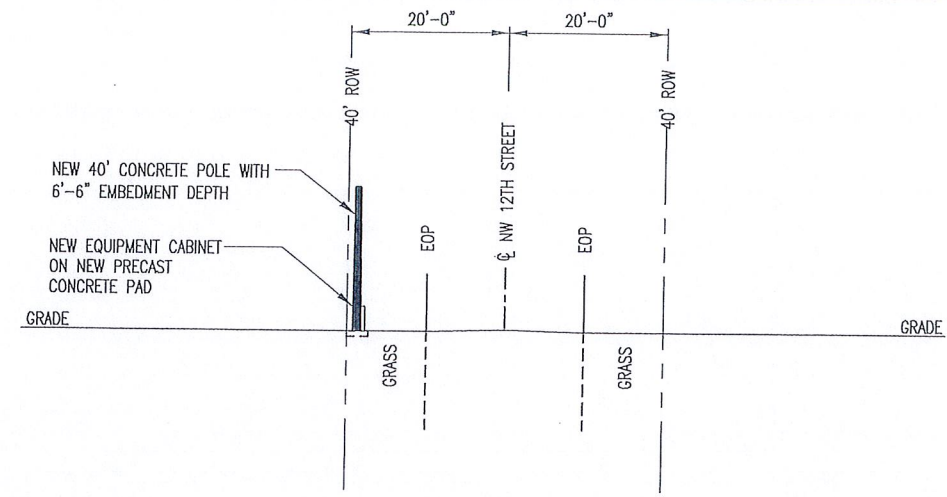
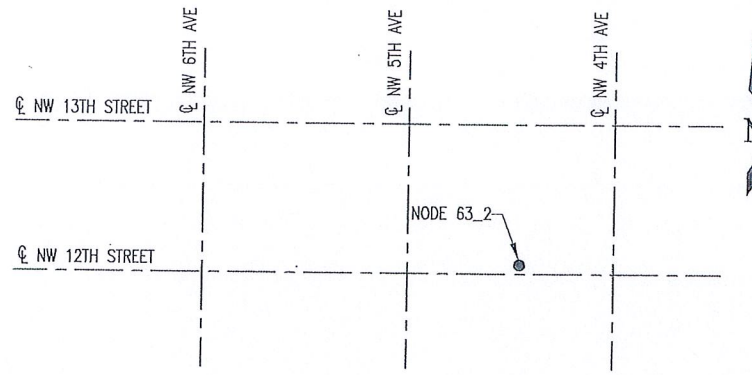


### DRIVING DIRECTIONS

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 NORTH. TAKE THE EXIT TOWARD FL-826 EAST/BEACHES. MERGE ONTO FL-826 EAST/FL-91 SOUTH. TURN LEFT ONTO NW 2ND AVENUE. TAKE THE RAMP ON THE LEFT ONTO I-95 NORTH. TAKE EXIT 29A TO MERGE ONTO FL-838 E/W SUNRISE BLVD. TURN LEFT ONTO NW 7TH AVENUE. TAKE THE 2ND 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



1 LOCATION SKETCH  
SCALE: NTS

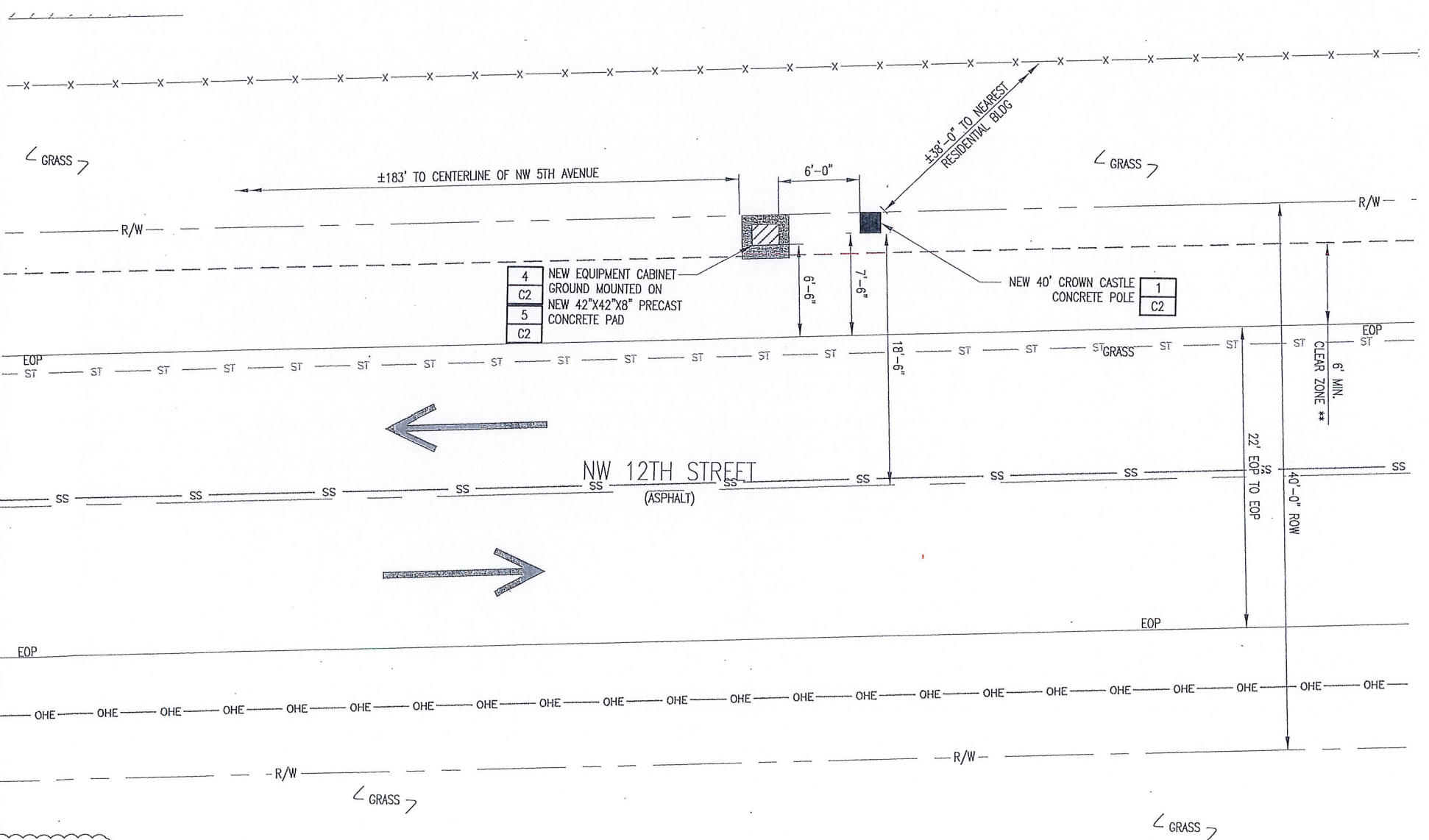
2 TYPICAL PROFILE VIEW  
SCALE: NTS



300 CROWN OAK CENTRE DRIVE  
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\*\* MINIMUM CLEAR ZONES ILLUSTRATED USING DESIGN GUIDELINES FROM FDOT FLORIDA GREENBOOK, MAY 2007 EDITION

POSTED SPEED LIMIT:  
25MPH



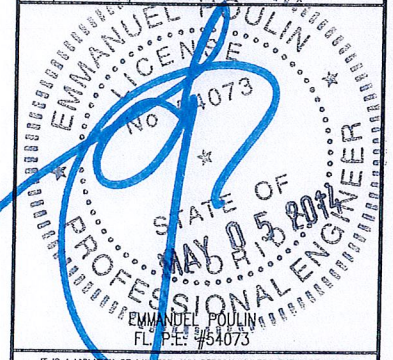
UNDERGROUND SERVICE ALERT  
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- NOTES:
- CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED.
  - CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN FOR PEDESTRIAN TRAFFIC AND WORK WITHIN THE RIGHT-OF-WAY, INCLUDING VEHICLE PARKING AND EQUIPMENT STAGING.
  - CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER.

SYMBOL LEGEND	
— E —	POWER CONDUIT
— T —	TELCO CONDUIT
— F —	PROPOSED FIBER CONDUIT
— OHE —	OVERHEAD CONDUCTORS
— G —	GROUNDING
— X —	FENCE
— W —	WATER
— S —	SEWER
— GAS —	GAS
— SS —	STORM
— X —	UTILITY POLE
— H —	HYDRANT
— MH —	MANHOLE
— C —	CENTERLINE OF ROAD
— O —	PROPOSED WOOD POLE
— ■ —	PROPOSED CONCRETE UTILITY POLE

1 REPRESENTS DETAIL #  
C7 REPRESENTS SHEET#

NOTE 1 REPRESENTS NOTE  
SHT E7 REPRESENTS SHEET#



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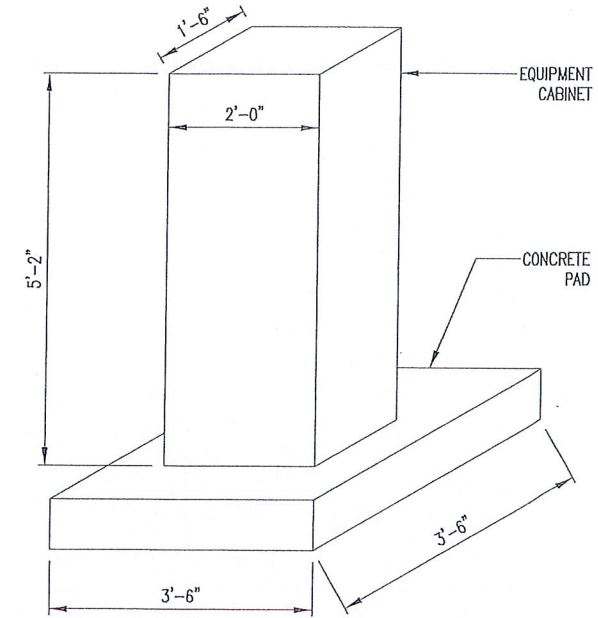
SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**C1**

3 PLAN VIEW  
SCALE: NTS

**LANDSCAPE NOTES:**

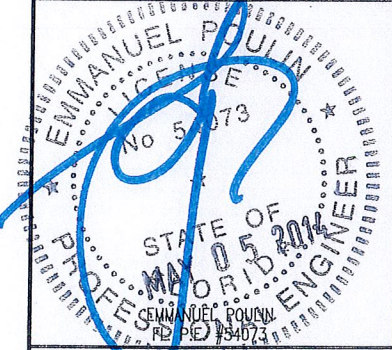
1. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER, AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS" PART I, 1963, AND PART 11, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, FLORIDA.
2. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
3. ALL PLANT BEDS TO RECEIVE 10" OF 50/50 MIX. 50% SAND, 50% MUCK.
4. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO PROVIDE A SMOOTH UNIFORM GRADE PRIOR TO INSTALLING SOD.
5. 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.



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

DRAWN BY: EW CHECKED BY: JD

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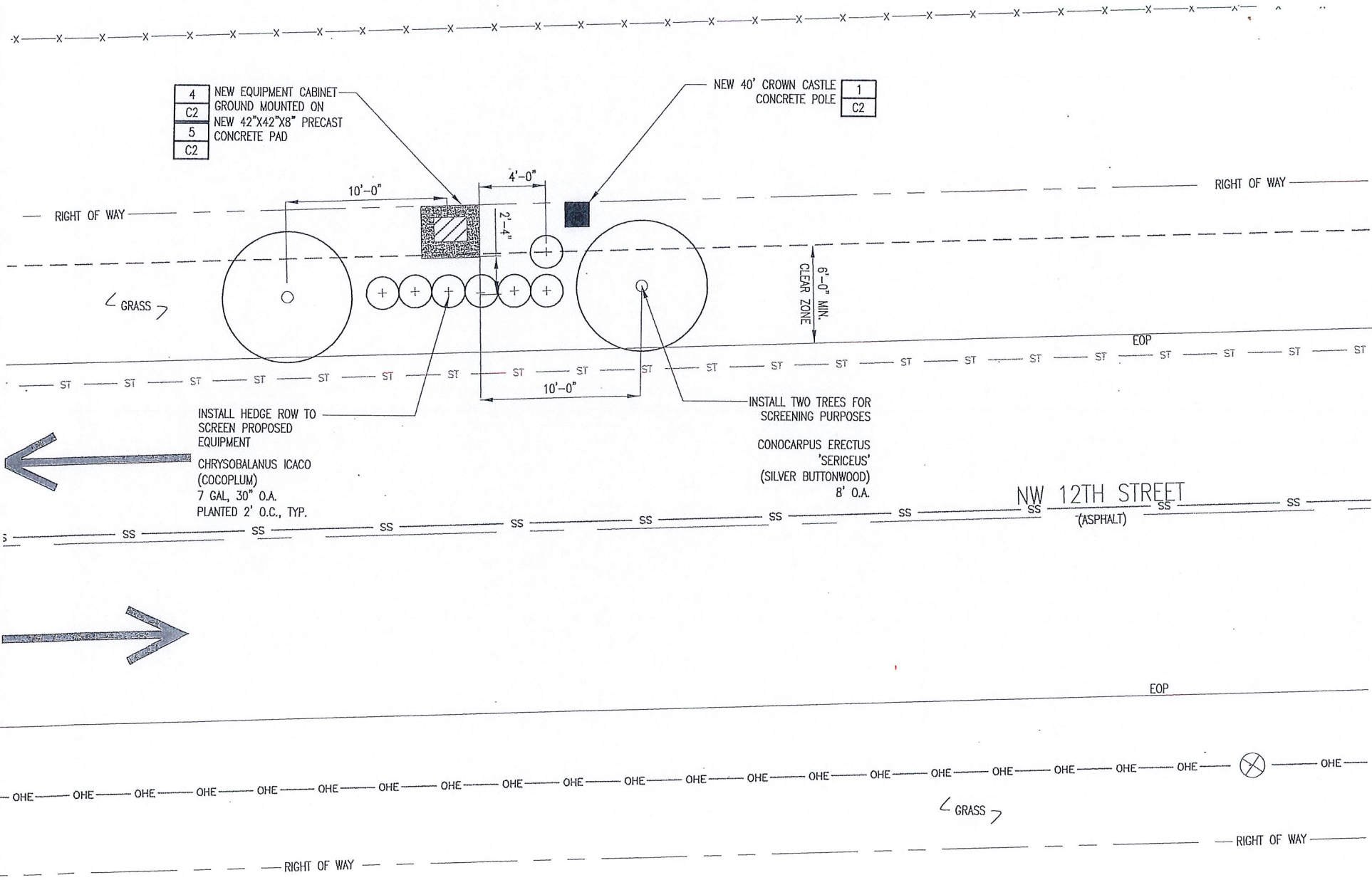


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 FORT LAUDERDALE, FL 33311

SHEET TITLE:  
**LANDSCAPE MITIGATION PLAN**

SHEET NUMBER:  
**C1.1**

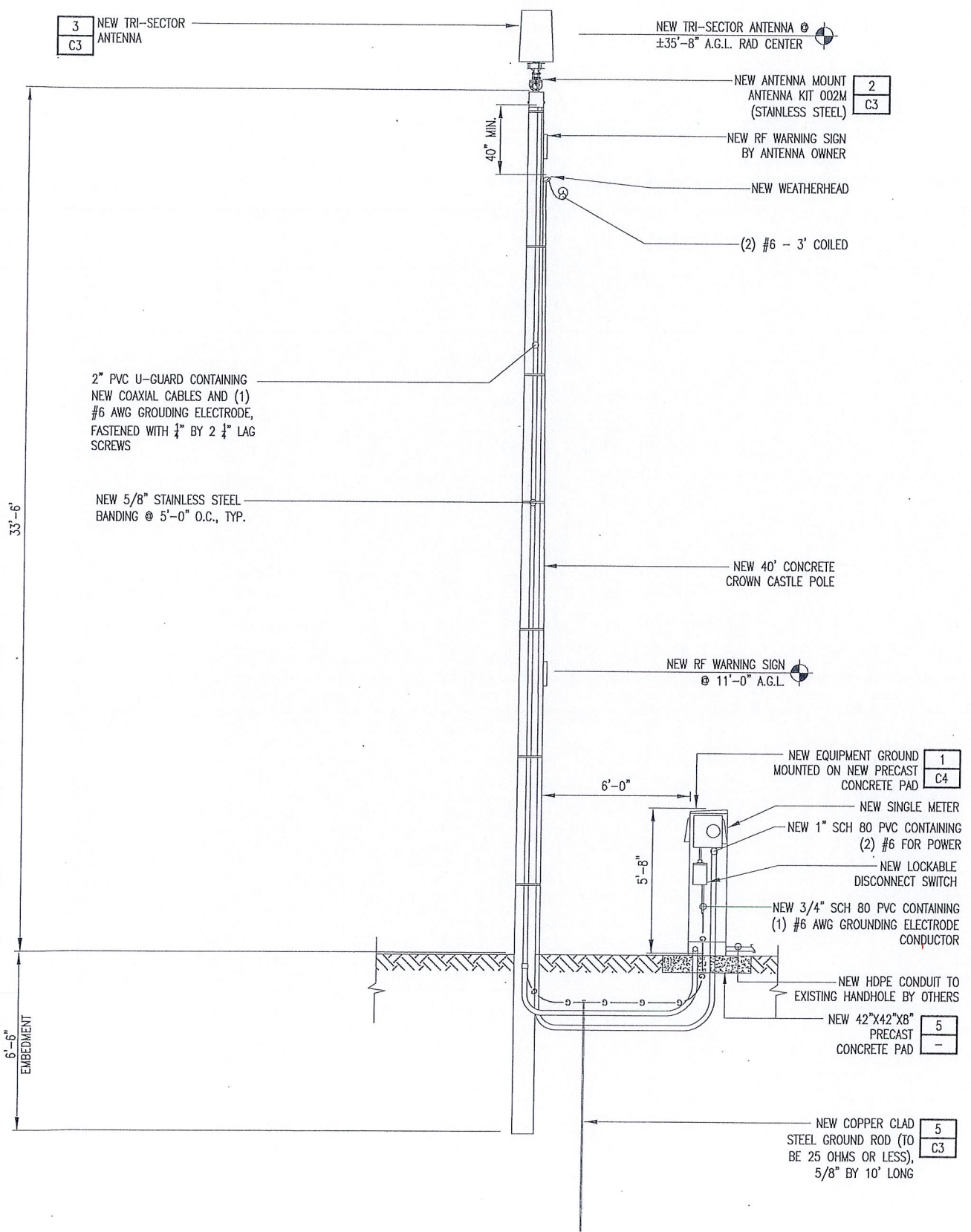


UNDERGROUND SERVICE ALERT  
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— OHE —	OVERHEAD CONDUCTORS
— G —	GROUNDING
— X —	FENCE
— W —	WATER
— S —	SEWER
— GAS —	GAS
■	NEW EQUIPMENT CABINET ON PRECAST PAD
⊗	STORM UTILITY POLE
⊙	HYDRANT
⊕	MANHOLE
—	CENTERLINE OF ROAD
○	PROPOSED WOOD POLE
■	PROPOSED CONCRETE UTILITY POLE
1	← REPRESENTS DETAIL #
C7	← REPRESENTS SHEET #
NOTE 1	← REPRESENTS NOTE
SHT E7	← REPRESENTS SHEET #

1 LANDSCAPE MITIGATION PLAN SCALE: NTS



3 NEW TRI-SECTOR ANTENNA  
C3

NEW TRI-SECTOR ANTENNA @ ±35'-8" A.G.L. RAD CENTER

2 NEW ANTENNA MOUNT ANTENNA KIT 002M (STAINLESS STEEL)  
C3

NEW RF WARNING SIGN BY ANTENNA OWNER

NEW WEATHERHEAD

(2) #6 - 3' COILED

2" PVC U-GUARD CONTAINING NEW COAXIAL CABLES AND (1) #6 AWG GROUNING ELECTRODE, FASTENED WITH 1/4" BY 2 1/4" LAG SCREWS

NEW 5/8" STAINLESS STEEL BANDING @ 5'-0" O.C., TYP.

NEW 40' CONCRETE CROWN CASTLE POLE

NEW RF WARNING SIGN @ 11'-0" A.G.L.

1 NEW EQUIPMENT GROUND MOUNTED ON NEW PRECAST CONCRETE PAD  
C4

NEW SINGLE METER

NEW 1" SCH 80 PVC CONTAINING (2) #6 FOR POWER

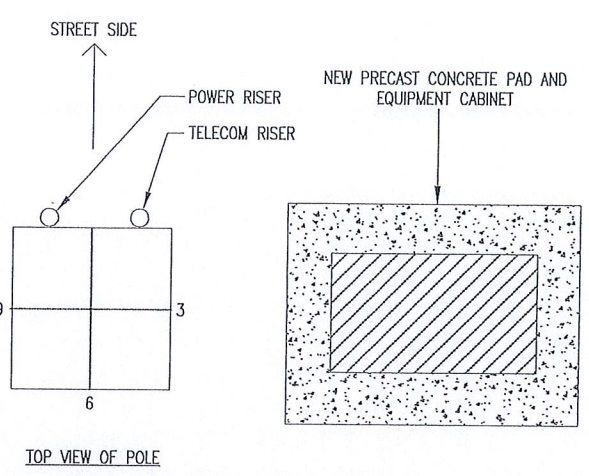
NEW LOCKABLE DISCONNECT SWITCH

NEW 3/4" SCH 80 PVC CONTAINING (1) #6 AWG GROUNING ELECTRODE CONDUCTOR

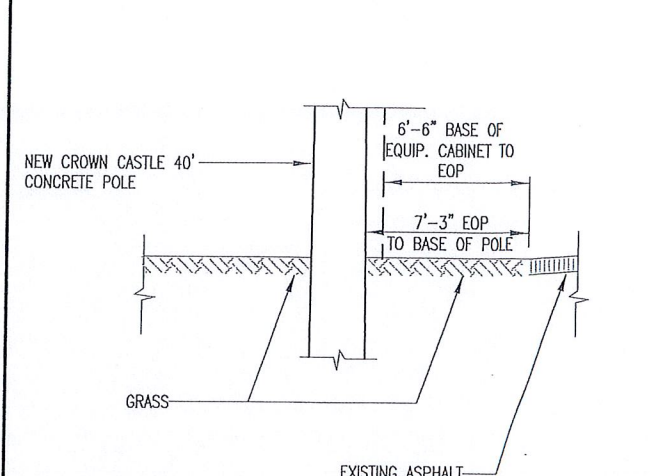
NEW HDPE CONDUIT TO EXISTING HANDHOLE BY OTHERS

5 NEW 42"X42"X8" PRECAST CONCRETE PAD  
-

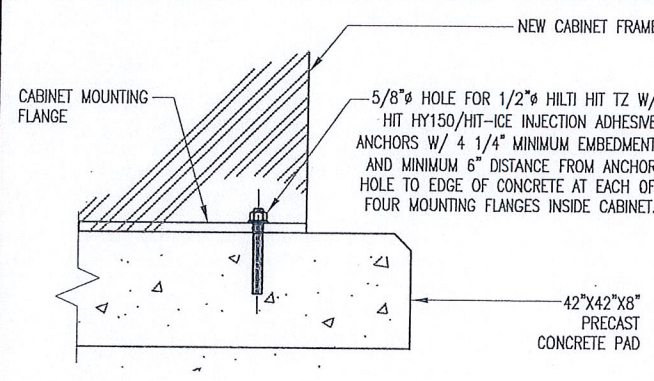
5 NEW COPPER CLAD STEEL GROUND ROD (TO BE 25 OHMS OR LESS), 5/8" BY 10' LONG  
C3



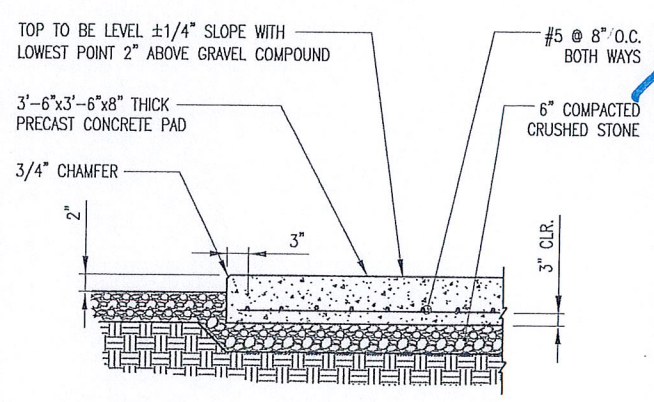
2 QUADRANT LOCATION OF PROPOSED EQUIPMENT  
SCALE: NTS



3 CURB ELEVATION  
SCALE: NTS



4 EQUIPMENT CABINET ATTACHMENT DETAIL  
SCALE: NTS



5 EQUIPMENT PAD DETAIL  
SCALE: NTS

SYMBOL LEGEND

— E —	POWER CONDUIT	— X —	FENCE
— T —	TELCO CONDUIT	— (S) —	SILT FENCE
— OHE —	OVERHEAD CONDUCTORS		
— G —	GROUNING		

1 REPRESENTS DETAIL #

NOTE 1 REPRESENTS NOTE

C7 REPRESENTS SHEET #

SHT E7 REPRESENTS SHEET #

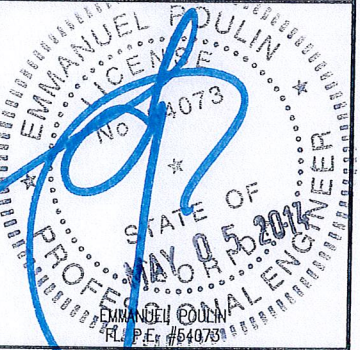
1 ELEVATION  
SCALE: NTS



300 CROWN OAK CENTRE DRIVE  
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TEL: 407.260.0231  
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FL COA#: 26983

DRAWN BY: EW CHECKED BY: JD

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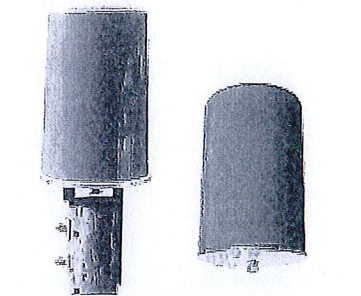
SHEET TITLE:  
**ELEVATION**

SHEET NUMBER:  
**C2**

# KATHREIN 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 3GUMTS.

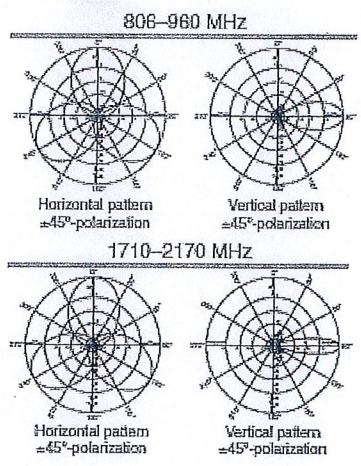
- Wide band operation.
- Exceptional intermodulation characteristics.
- High strength fiberglass radome.
- Internal diplexers allow the +45° polarization (upper and lower bands) to be combined on one connector and the -45° polarization (upper and lower bands) to be combined on a second connector for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



**General specifications:**

Frequency range	806-960 MHz 1710-2170 MHz
VSWR	<1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° upper and lower band -45° upper and lower band
Connector	6 x 7-16 DIN female
Isolation	intrasystem <30 dB intersystem >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)
Shipping dimensions	32 x 20 x 19 inches (813 x 508 x 483 mm)
Shipping weight	52 lb (23.6 kg)
Mounting	Designed to be mounted on top of a utility pole using a custom mounting bracket supplied by the customer.

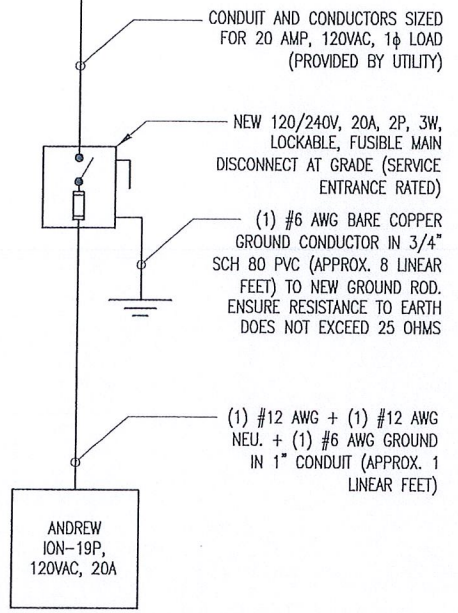
*See reverse for order information.*



**Specifications:**

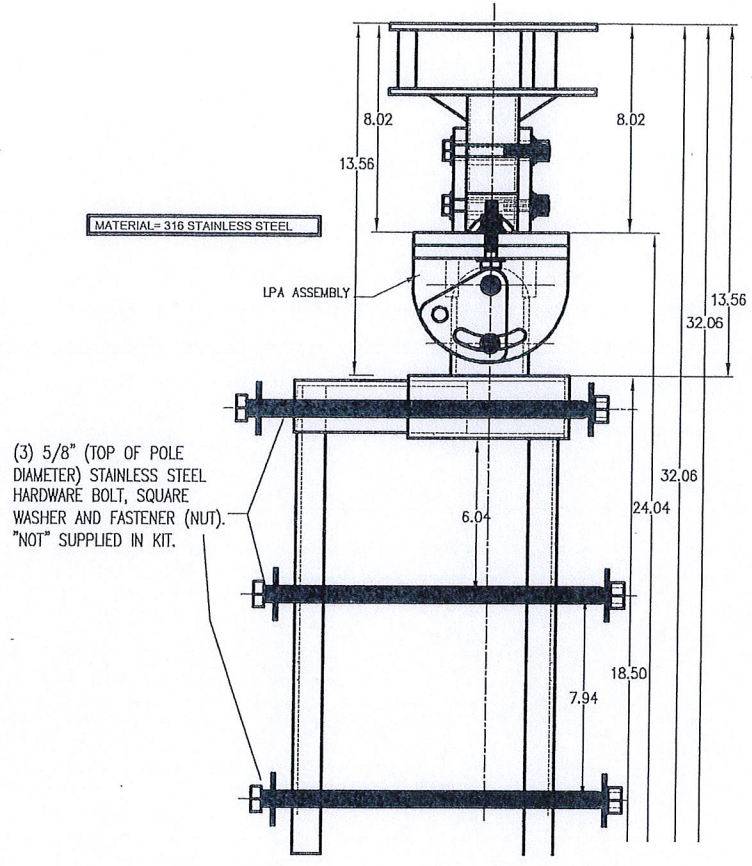
	806-866 MHz	824-894 MHz	880-960 MHz	1710-1890 MHz	1850-1990 MHz	1920-2170 MHz
Gain	11.4 dBi	11.4 dBi	11.8 dBi	12.5 dBi	13.3 dBi	13.6 dBi
Front-to-back ratio (180° ± 30°)	>23 dB (co-pol) >20 dB (total power)	>23 dB (co-pol) >20 dB (total power)	>25 dB (co-pol) >22 dB (total power)	>25 dB (co-pol) >22 dB (total power)	>25 dB (co-pol) >22 dB (total power)	>25 dB (co-pol) >22 dB (total power)
Maximum input power	250 watts (at 50°C)	250 watts (at 50°C)	250 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)
+45° and -45° polarization horizontal beamwidth	67° (half-power)	66° (half-power)	64° (half-power)	66° (half-power)	60° (half-power)	60° (half-power)
+45° and -45° polarization vertical beamwidth	34° (half-power)	33° (half-power)	30° (half-power)	20° (half-power)	18° (half-power)	17.5° (half-power)
Cross polar ratio						
Main direction	0°	0°	0°	16 dB (typical)	18 dB (typical)	20 dB (typical)
Sector	>10 dB	>10 dB	>10 dB	>10 dB	>10 dB	>10 dB

NEW ELECT. SERVICE,  
20 AMP, 120VAC, 1φ



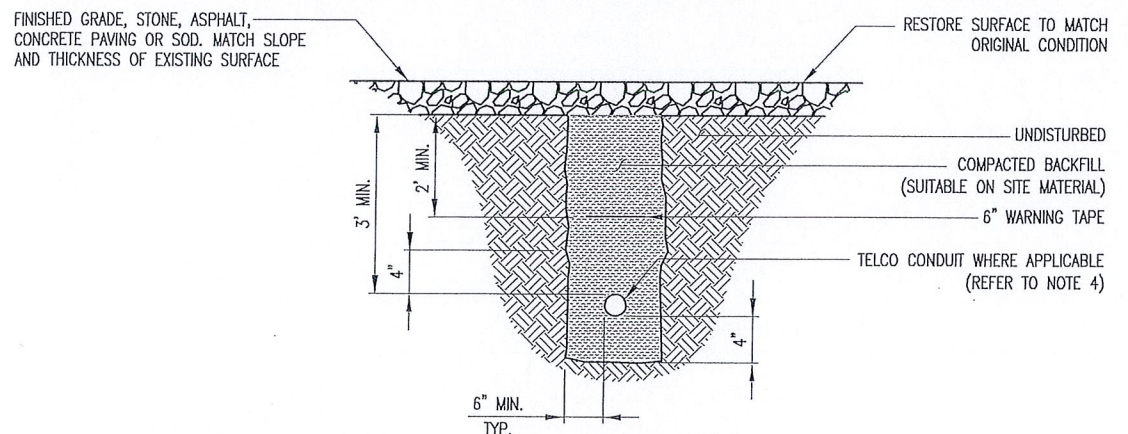
1 RISER DIAGRAM  
SCALE: NTS

1. SHORT CIRCUIT CURRENT RATING OF FUSIBLE MAIN DISCONNECT: 100kA.
2. 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.
4. ALL CONDUCTORS ARE TO BE COPPER WIRE WITH INSULATION TYPE XHHW.
5. ALL ABOVE GRADE CONDUIT IS TO BE UV RESISTANT SCHEDULE 80 PVC. ALL BELOW GRADE CONDUIT IS TO BE SCHEDULE 40 PVC.



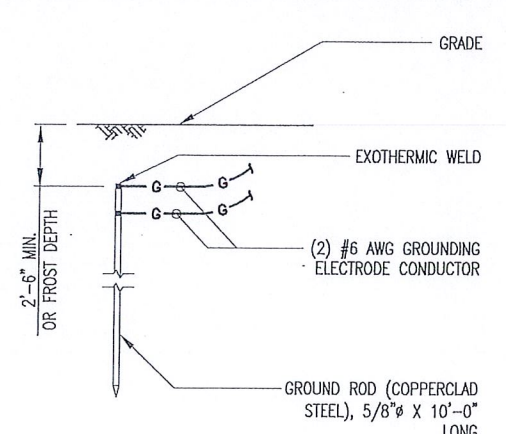
2 ANTENNA MOUNTING KIT (002M)  
SCALE: NTS

3 ANTENNA SPECIFICATIONS  
SCALE: NTS



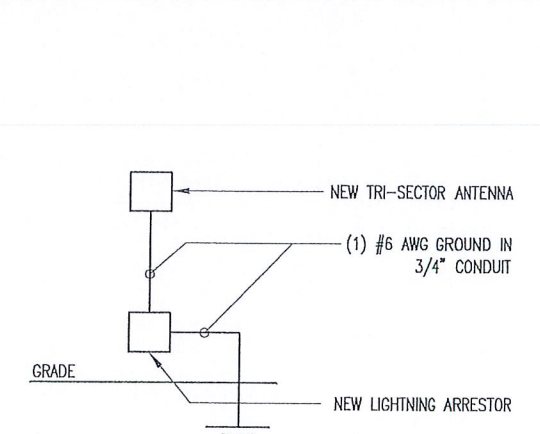
4 NEW UNDERGROUND CONDUIT(S) TRENCHING DETAIL (IF APPLICABLE, REFER TO SITE PLAN)  
SCALE: NTS

1. PROVIDE SCHEDULE 40 PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
2. PROVIDE SCHEDULE 80 PVC CONDUIT AND ELBOWS AT STUB UP LOCATIONS (i.e. SERVICE POLE, BTS EQUIPMENT, ETC.).
3. INSTALL UTILITY PULLBOXES PER NEC.
4. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENTS.
5. CONDUIT/TUBING CONTAINING FIBER OPTIC CABLING TO BE FILLED WITH GEL TO PREVENT WATER PENETRATION, COMMONLY REFERRED TO AS "ICKY PICK."



5 GROUND ROD DETAIL  
SCALE: NTS

1. GROUND ROD TO BE DRIVEN 10' VERTICALLY.



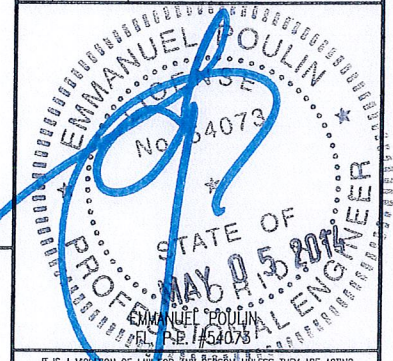
6 ANTENNA GROUNDING SCHEMATIC  
SCALE: NTS



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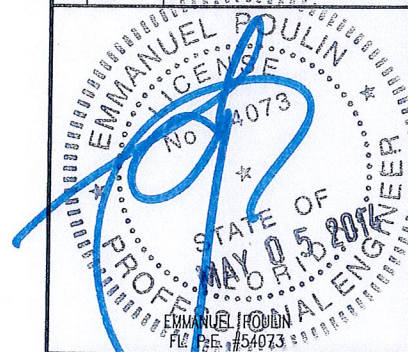
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2	05/05/14	REVISED LOCATION/EQUIPMENT
1	05/09/13	REVISED PER COMMENTS
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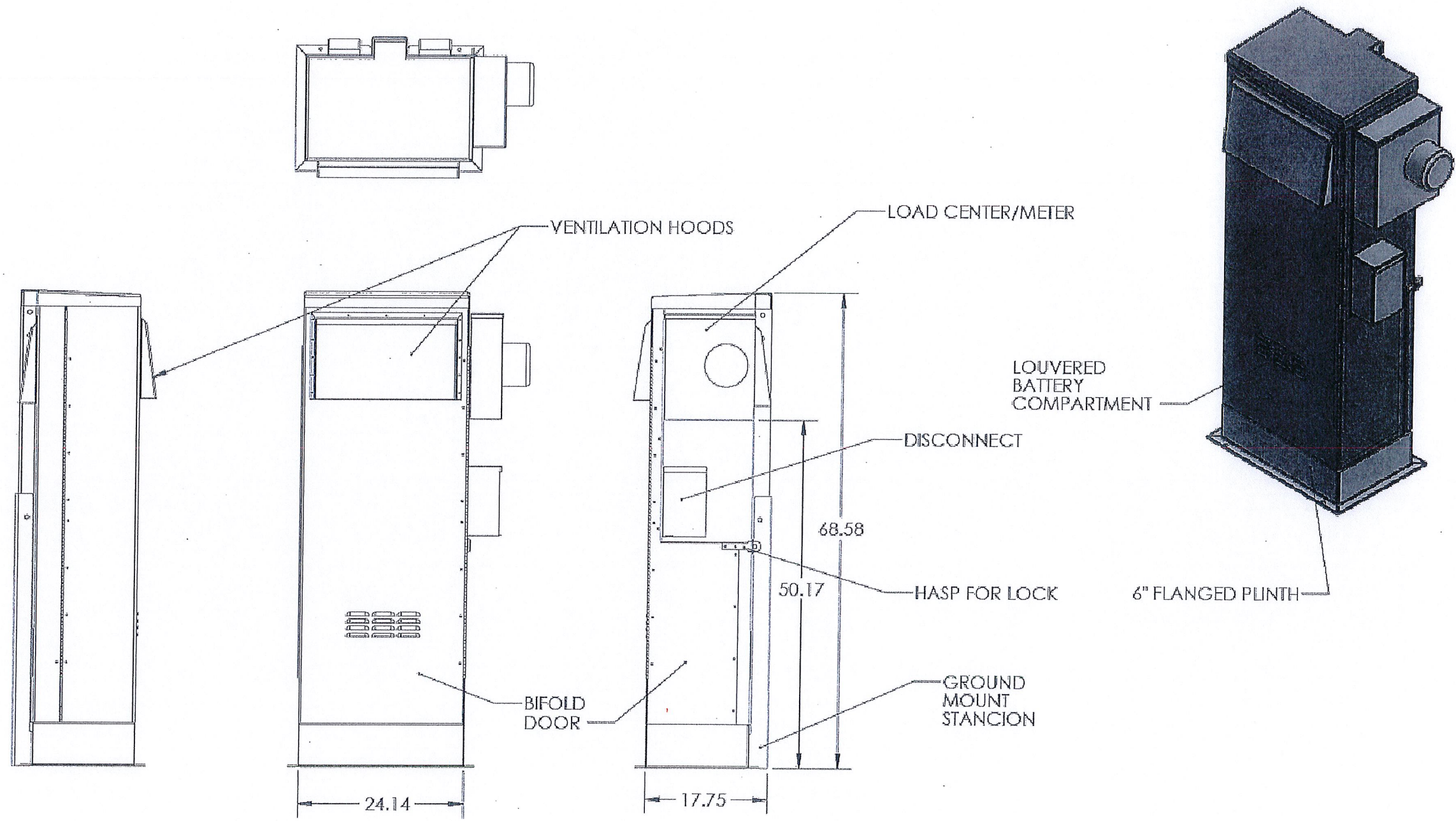
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**DETAILS**

SHEET NUMBER:  
**C4**



1 SHROUD KIT LOSH-BBU-1 GROUND MOUNT  
SCALE: NTS