

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

PERMIT NO. CC13-08

District 2

Applicant Name and Job Number Crown Castle SFL 62\_2 1445 NW Str Are (8.5 R.O.W) Job Address and Location 804 NW 15 Street Description of Work Installing cabinet and utility pole within right-of-way. Anticipated start and end dates of work 6/1/13 - 45 days X 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) With the exception of any waivers that may be checked above, the proposed at grade facilities conform to the X 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 X 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 X 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. X Crown Castle shall be responsible for maintaining landscaping X The proposed at grade facilities depicted on the attached plans are completely located in the public rights-ofway. 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 gon day of May , 7013 Sworn to and subscribed before me this My Commission Expires Notary Public, State of Florida (Seal) SHANE HAFNER MY COMMISSION # EE831765 EXPIRES: September 03, 2016 (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

# REVIEW CHECKLIST FOR CABINETS IN RIGHTS-OF-WAY

Permit No.	CC13 -	80
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Application Package complete – 3 sets (J	X	<b>Application</b>	<b>Package</b>	complete	<ul> <li>3 sets (</li> </ul>	(J.
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Verified addresses of property owners and HOA to which notice was provided Random audit of package to property owners
Feasibility letter, site plan, landscaping plan, aerial photo, 5 pictures
Easement and property information provided

区C memo provided to Commission (JJ)□ 15-Day Call up Memo to Commission (JJ)

### Criteria for cabinets in Rights-of-Way

	Plan Review Checklist	Comments
	Evaluation and approval of any waivers identified on application (size, height, corner yard, > 3 cabinets per block, modification of existing cabinet, conflict with future sidewalk)	,
X	Sum of H + W + L not greater than 124" and H not greater than 5'-8"	70
X	Cabinet not in front yard	OR
X	Proposed landscaping is in accordance with plan on file with City	e de la companya de l
×	If landscaping is to be maintained by Property Owner, Agreement has been provided	Crown Castle
X	Landscaping plan has been checked by Dave Genarro	y ,
X	New cabinet is at least 2 feet from other cabinets, poles, etc.	OK
X	Cabinet not in sight triangle (sight triangle may be reduced to 10 feet)	O/C
X	ADA requirements met	11/2 /
X	Roadside recovery setback met (per Florida Green Book)	8.5 ROW STA
×	Cabinet/landscaping is at least one foot from sidewalk	NA
×	Cabinet would not conflict with future sidewalk	OK.
X	Field face cabinet to R/W	/
	Field Inspection Checklist	Comments
	Type and location of topographic features shown on permit plan are consistent with field conditions	
	H + W + L not greater than 124" and H not greater than 5'-8"	
	There are no conflicts with existing utility lines and new cabinet location would not hinder access to utilities or be within excavation trench over the pipe	
	New cabinet is at least 2 feet from other cabinets, poles, etc.	
	New cabinet is not in sight triangle – visual check performed in field	
	ADA requirements met – minimum clearances/slopes measured	
	Roadside recovery setback measured	
	Cabinet/landscaping (measured) is at least one foot from sidewalk	
	Landscaping is per permit plans and effectively screens cabinet	
	Cabinet would not conflict with future sidewalk	
	Dimensions for cabinet location measured	
	Not more than three communication cabinets per block (unless waiver approved)	
	Electrical Permit - Final inspection passed	



Crown Castle

8555 NW 64th Street

Miami, Florida 33166-2628

MelissaP.Anderson@crowncastle.com

Office 786-899-5911

Mobile 561-310-9261

Fax 305-591-1469

www.crowncastle.com

April 4, 2013

City Engineer
City of Ft. Lauderdale
100 N. Andrews Avenue
Ft. Lauderdale, Florida 33301

Re: Crown Castle NG East Inc. Application for Exemption from Below Grade Requirement

#### Dear City Engineer:

In accordance with Section 25-100.1(b) of the city's Communications Rights-of-Way Ordinance (the "Ordinance"), Crown Castle NG East Inc. ("Crown Castle") submits this application for an exemption from the below grade requirement. As is set forth in the attached letter from Wayne Waldron, Director of Implementation for Crown Castle in the Southeastern Region, an exemption is appropriate, as a hardship would result from the imposition of the requirement. Placing the communications service facility described in the attached right-of-way permit application ("Facility") below grade is: 1. technologically infeasible; 2. a below grade facility is not available in the marketplace; and 3. all reasonable alternatives have been exhausted.

Given that Crown Castle has shown by a preponderance of the evidence that a hardship would result if an exemption were not granted, Crown Castle requests that City Engineer grant an exemption from Section 25-100.1(b) of the city's code.

Very Truly Yours,

Melissa P. Anderson

Government Relations Counsel

Southeastern Region

cc: Wayne Waldron, Director of Implementation

# ATTACHMENT 1 Certification in Support of Application to City of Ft. Lauderdale for Exemption from Below Grade Requirement

My name is Wayne W. Waldron and my title with Crown Castle is Director of Implementation for the Southeastern Region.

My background and experience in the telecommunications field is as follows: Prior to joining Crown Castle served as Division Manager of 7 state Southwest Division for utility construction (telephone, electric, water, gas, sewer, CATV) firm Henkels and McCoy, Inc. of Blue Bell PA for 10 years, Operations Controller managing Long Island Sound Crossing project for Pirelli Cable Systems of Florham Park NJ for 3 years, Vice President of Liberty General Contracting providing utility construction services in Pottstown PA for 4 years, Vice President of Construction and Engineering for RCN Corporation of Princeton NJ overseeing installation of fiber cabling for telephone, CATV and internet services for 7 years.

My education and training includes but is not limited to: Received Bachelors of Science in Business Administration with a major in Accounting from Temple University in 1980. I have taken continuing education courses in Fiber Optic Technology from Oklahoma State University, Effective Management from Harvard University, Electrical Design from University of Texas Arlington.

Given my education, background and experience, I am an expert regarding communications equipment and, in particular, regarding the communications equipment necessary for Crown Castle to pursue the current planned installation of a DAS network in Ft. Lauderdale. The communications service facility (Facility) that is described in the attached right-of-way permit application is necessary for the current DAS network. The Facility will house active electronics. Based upon my expertise, I hereby certify that placing the Facility below grade is technologically infeasible, that a below grade facility is not available in the marketplace and that all reasonable alternatives have been exhausted. Accordingly, Crown Castle requests an exemption from the below grade requirement contained in Section 25-100.1(b) of the city's code.

Wayne W. Waldron

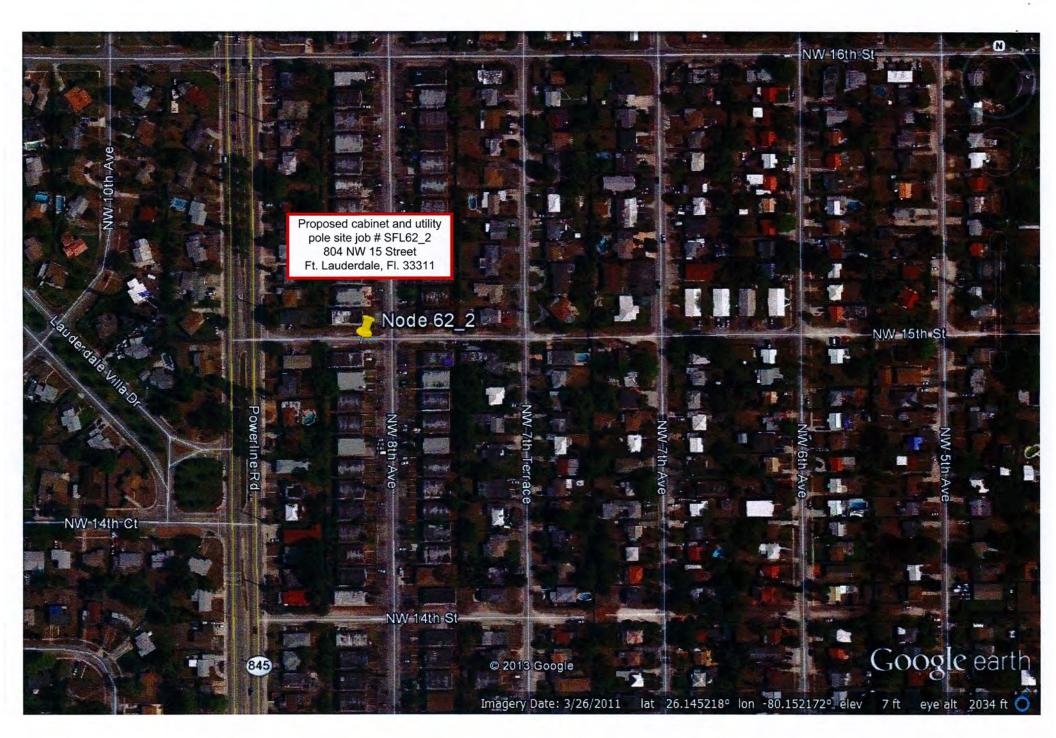
Director of Implementation

Southeastern Region

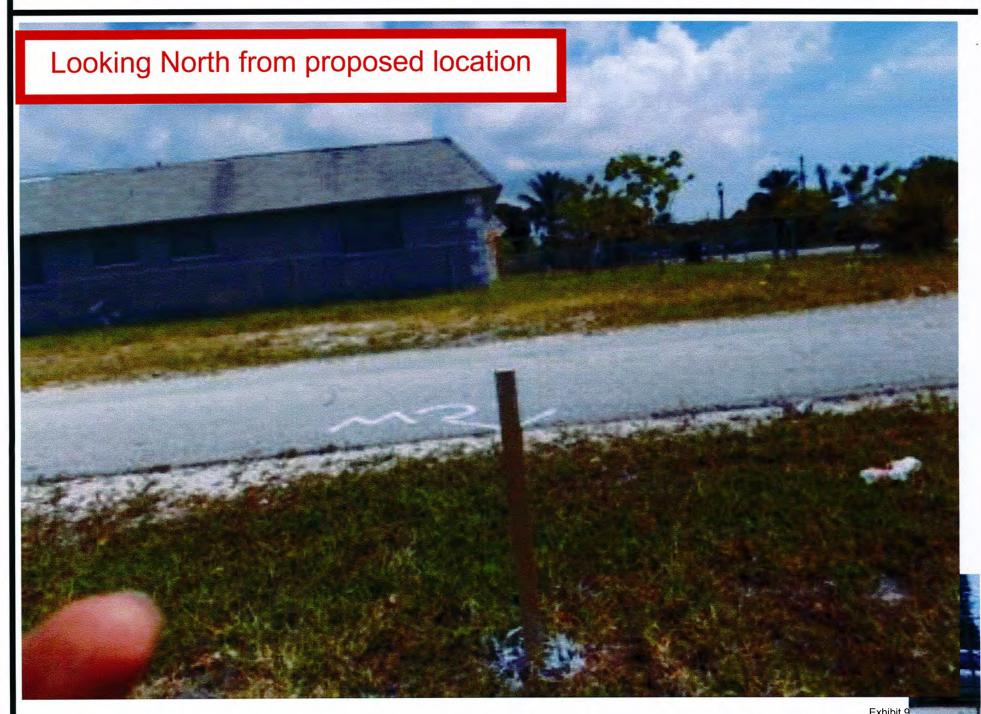
### Crown Castle NG East Inc. Graffiti Mitigation Plan

Pursuant to the City of Ft. Lauderdale's Communications Service Facility Right-of-Way Ordinance No. C-07-108, this Graffiti Mitigation Plan describes how Crown Castle NG East Inc. ("Crown Castle") will maintain communications service facilities governed by the Ordinance free from graffiti, including inspecting them no less frequently than every 90 days and removing graffiti within 7 working days from receipt of notice thereof from the City.

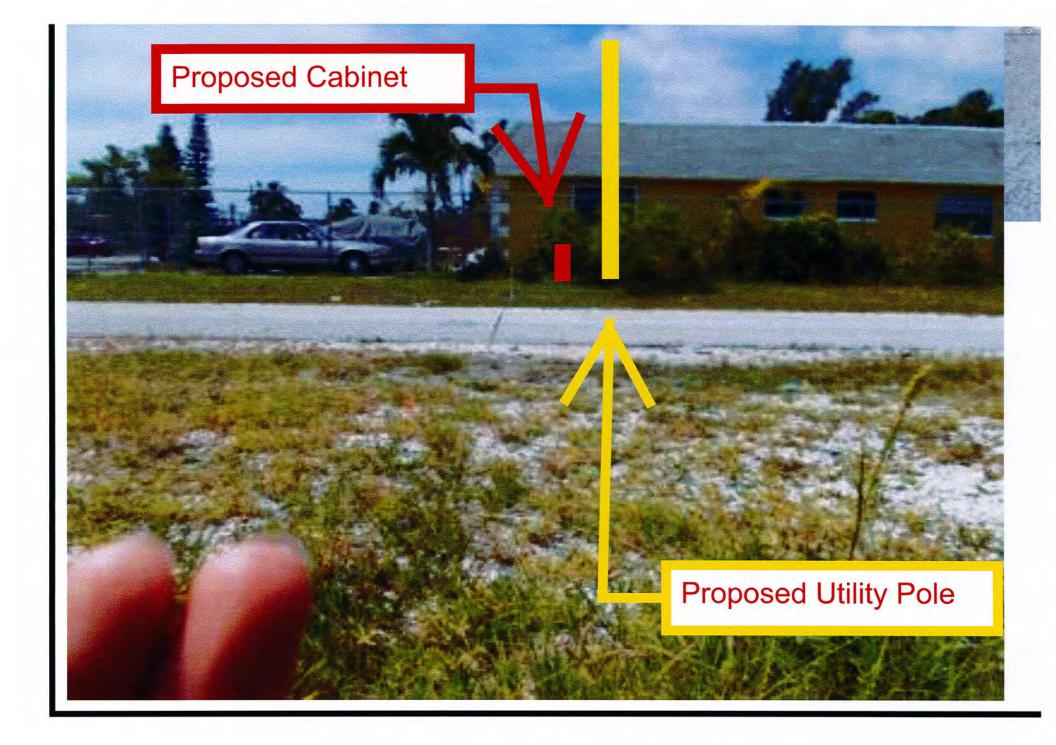
Crown Castle removes graffiti found on its equipment cabinets, including when graffiti is found by Crown Castle personnel or brought to Crown Castle's attention by other parties. Crown Castle removes graffiti with either mineral spirits or paint thinner. A rag is soaked with the solvent and rubbed lightly over graffiti. The solvents will remove spray paint and permanent marker, which are the most difficult forms of graffiti to remove. In cases where the graffiti cannot be cleaned or where Crown Castle determines that paint is the better option, matching paint is applied. The Crown Castle contact person for graffiti issues is Armando Hernandez. His contact information is: office: 786 899-5914 Cell: 813 447-0333.

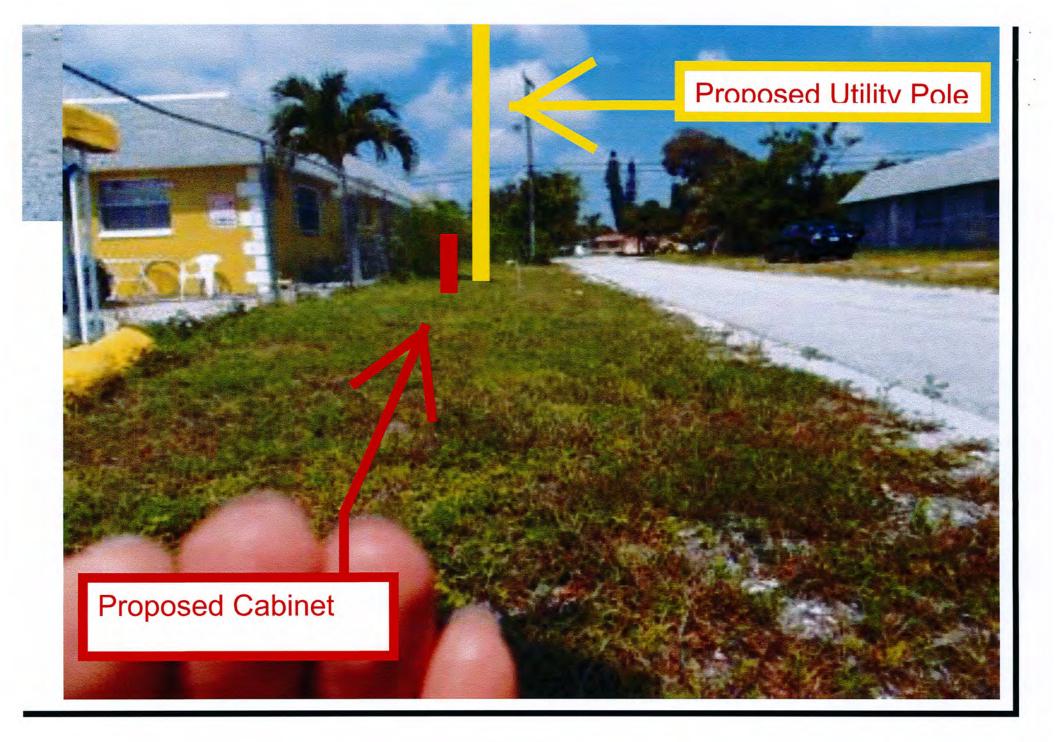






13-1621 Page 8 of 29







# Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

TIF-SOLF II R LLC,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 804 NW 15<sup>th</sup> Street Fort Lauderdale, Fl. 33311

Crown Castle NG East Inc. is sending this notice to you as provided in City Ordinance No. C-07-108, which requires that notice of right-of-way permit application for the communications facility be provided to certain parties in the vicinity of the right-of-way.

A drawing showing the proposed placement and location is attached. The permit application may be reviewed at the City engineer's Office located at City Hall 100 N. Andrews Avenue.

The communications facility will enable Crown Castle NG East Inc. to offer new and enhanced communications services to customers in your neighborhood.

If you have any questions, please feel free to contact me at (305) 728-0154

Sincerely,

Armando Hernandez

Site Development Manager

### Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

JAH REI #3 LLC,

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Sincerely,

Armando Hernandez

Site Development Manager

#### Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Dear Dawn Hopwood,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 804 NW 15<sup>th</sup> Street Fort Lauderdale, Fl. 33311

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Sincerely,

Armando Hernandez

Site Development Manager

# Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Dear David Bedoya,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 804 NW 15<sup>th</sup> Street Fort Lauderdale, Fl. 33311

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Sincerely,

Armando Hernandez

Site Development Manager

# Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Dear Christopher Corriette,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 804 NW 15<sup>th</sup> Street Fort Lauderdale, Fl. 33311

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Sincerely,

Armando Hernandez

Site Development Manager

# Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Dear Benjie Sperling,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 804 NW 15<sup>th</sup> Street Fort Lauderdale, Fl. 33311

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If you have any questions, please feel free to contact me at (305) 728-0154

Sincerely,

Armando Hernandez

Site Development Manager

# Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Durrs Community Association, Inc.,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 804 NW 15<sup>th</sup> Street Fort Lauderdale, Fl. 33311

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Sincerely,

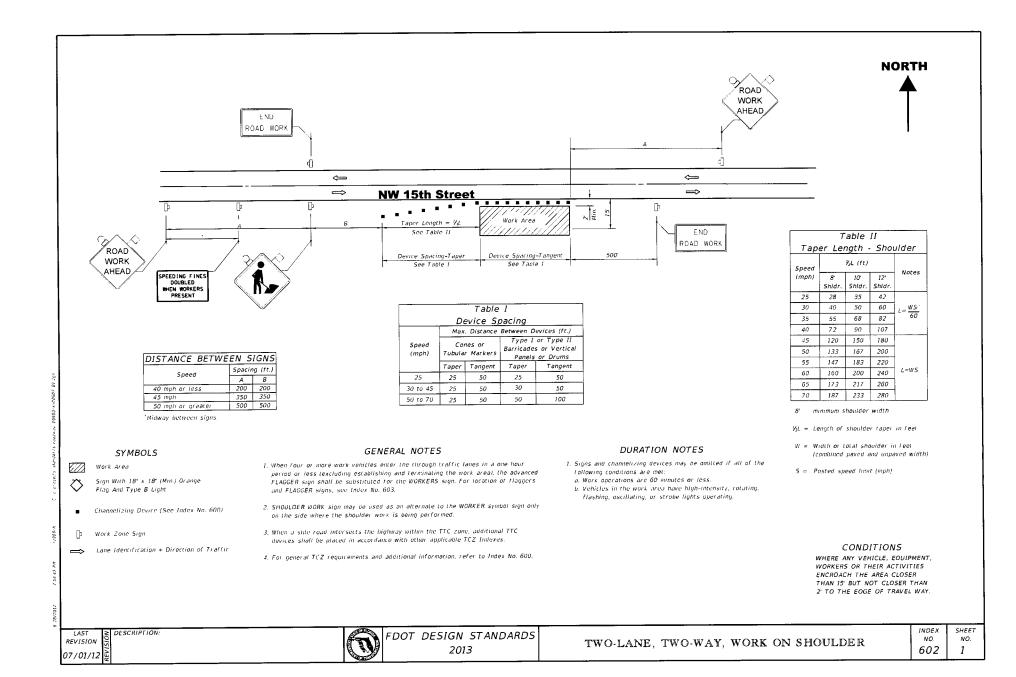
Armando Hernandez

Site Development Manager

## **TEMPORARY MODIFICATION OF TRAFFIC (MOT) ROUTING FORM**

DATE: <b>5/21/13</b>	
APPLICANT/ADDRESS/PHONE:	PERMIT NO
Crown Castle NG East, Inc.  8555 NW 64th Street  Miami, Fl. 33166  813-447-0333	(PROVIDED BY CITY AT TIME OF PERMIT APPLICATION)
613-447-0333	PROJECT NAME/ADDRESS:SFL 62_2
<ul> <li>"PERMIT").</li> <li>Obtaining signatures on this routing form donly after issuance of the PERMIT, subject</li> <li>This form is for MOT's within rights-of-way rights-of-way under Broward County juris completed with the required signatures and be attached.</li> </ul>	nd submitted as an attachment to the above-referenced permit (hereinafter loes not constitute any approvals by the City. The MOT may be implemented to satisfaction of all prerequisite conditions. under City of Fort Lauderdale's jurisdiction. If the MOT or detour routes affect sdiction, the County's form (available on the City website) should also be d attached. If the detours affect FDOT right-of-way, a permit from FDOT must
<ul> <li>If work is taking place in County or FDG applicant (hereinafter APPLICANT) is ask City's Public Information Office.</li> </ul>	OT R/W, an MOT permit is not required from the City. However, PERMIT ked to provide two weeks advance notice of any closures or detours to the
Specific dates and times requested for MOT i	mplementation:
Begin E	nd
the construction, deliveries, staging areas, if are not permitted in the right-of-way). Pleas work.  804 NW 15th Street approximately 70' Western Street Approximatel	address, names of affected streets, why MOT is necessary, nature of cranes will be used, etc. (staging and storage of materials/equipment se note if additional sheets have been attached for the description of est of NW 8th Avenue. Work on shoulder.  and new 40' wood utility pole. Attach Crown Castle antenna
to new 40' wood utility pole.	
are necessary, if flagmen will be provided, if any other special considerations related to the the description of MOT.	on each street, if metered parking spaces will be displaced, if detours MOT will be full-time (or times of day the MOT is to be in effect) and his request. Please note if additional sheets have been attached for work hours 8am - 4pm.
MOT plan prepared by a certif appropriate for the complexity o	ried worksite traffic control technician or traffic control supervisor (as f the job), with a copy of current certification.
there is a conflict with a higher public purpo	s found to adversely affect public safety and/or public convenience or se, the APPLICANT may be required to modify the MOT plan or the ermanently revoked at any time with reasonable notice from the City.
Control Devices for Streets and Highways an approved plan shall be the responsibility of the	ovisions of the latest edition of <u>Part IV of the Manual of Uniform Traffical FDOT Design Standards</u> . Compliance with the requirements of the <u>APPLICANT</u> .
(APPLICANT)	Armando Hernandez / Site Development Manager (Print Name/Title)
As a consideration for the permission granter indemnify and hold harmless the City of Forthe MOT plan approved under the PERMIT.	d herein, Armando Hernandez (APPLICANT) agrees to t Lauderdale for any damages, claims or injuries that may result from  By: (Company Officer, President, or Authorized Agent)
Crown Castle NG East, Inc.	# . I . A . I . II II

Rev. 6-8-12





CLIENT :

**CROWN CASTLE** SFL62\_2

ADDRESS:

CLIENT SITE ID#:

804 NW 15TH STREET FORT LAUDERDALE, FLORIDA 33311

SITE TYPE:

**NEW WOOD POLE** 

?(	DP	ER	Y	IN	F0	RM	AT	ON	

SITE COORDINATES:

PROPERTY OWNER: ADDRESS:

26.1454\* -80.15337\*

CROWN CASTLE 8555 NW 64TH STREET MIAMI, FL 33166

JURISDICTION: CITY OF FORT LAUDERDALE PROJECT MANAGEMENT FIRM: ADDRESS: CROWN CASTLE 8555 NW 64TH STREET MIAMI, FL 33166

AW SOLUTIONS, INC. 300 CROWN OAK CENTRE DR. LONGWOOD, FL 32750

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

#### DESIGN CRITERIA;

PROJECT TEAM

- 1. 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.
- WIND EXPOSURE: C. DEAD LOAD:
- A. EQUIPMENT WEIGHT PER MANUFACTURER DATA. SEISMIC LOAD DOES NOT GOVERN THIS DESIGN.

**DRAWING** s INDEX

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

<u>APPROVALS</u>	DATE:
PROJECT MANAGER:	
CARRIER:	

INTERNATIONAL \*

<b>A</b>	1	1	70					3	)′
		V	9	U	U	U	U		5

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

1	05/09/13	REVISED PER COMMENTS
0	10/30/12	REVISED PER COMMENTS ISSUED FOR PERMIT
REV	DATE	DESCRIPTION
	93088	(1000 100 100 100 100 100 100 100 100 10

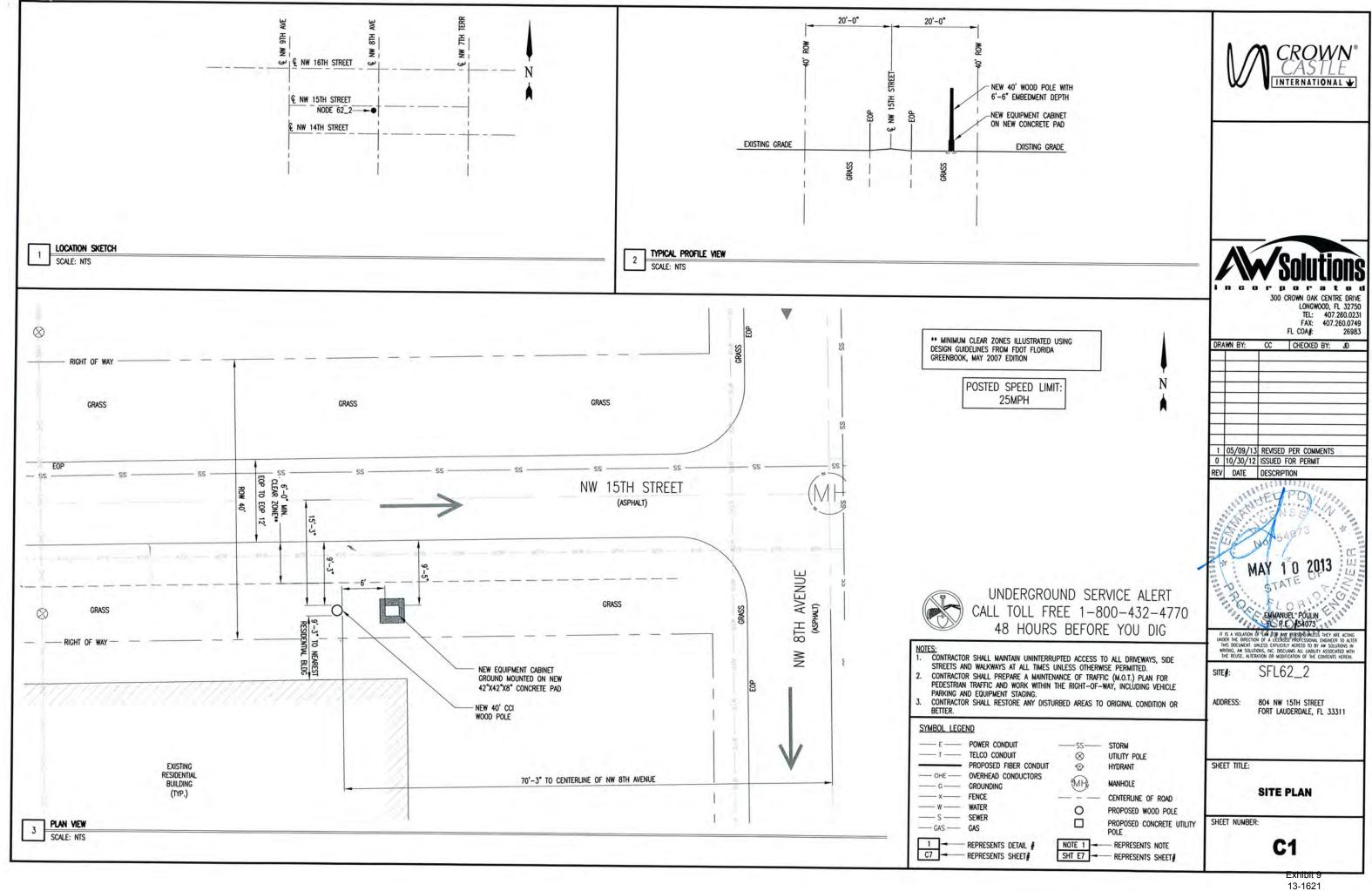
T1

Rd NW 28th St DRAWN BY: CC CHECKED BY: JD (811) (845) NW 22nd St NW 22nd St (845) NW 21918 NW 19th St Lauderdale NW 18th Ct (811) NW 17th Ct NE 17th Ct (845) NW 15th St NW 15th St NE 16th St Terrace NODE 62 2-NE 15th 8 W 15th Ct Rd NW 14th St Dillard Park (B11) A NW 11th PI NW 11th Ct SFL62\_2 NW 8th NW 10th Pt (838) W Sunrise Blvd (838) W Sunrise Blvd 804 NW 15TH STREET FORT LAUDERDALE, FL 33311 NW 9th St Rd NVV 8th PI NW 8th Ct SHEET TITLE: NW 7th Ct DRIVING GENERAL VICINITY MAP SPECIFIC LOCATION MAP **TITLE SHEET 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 SHEET NUMBER:

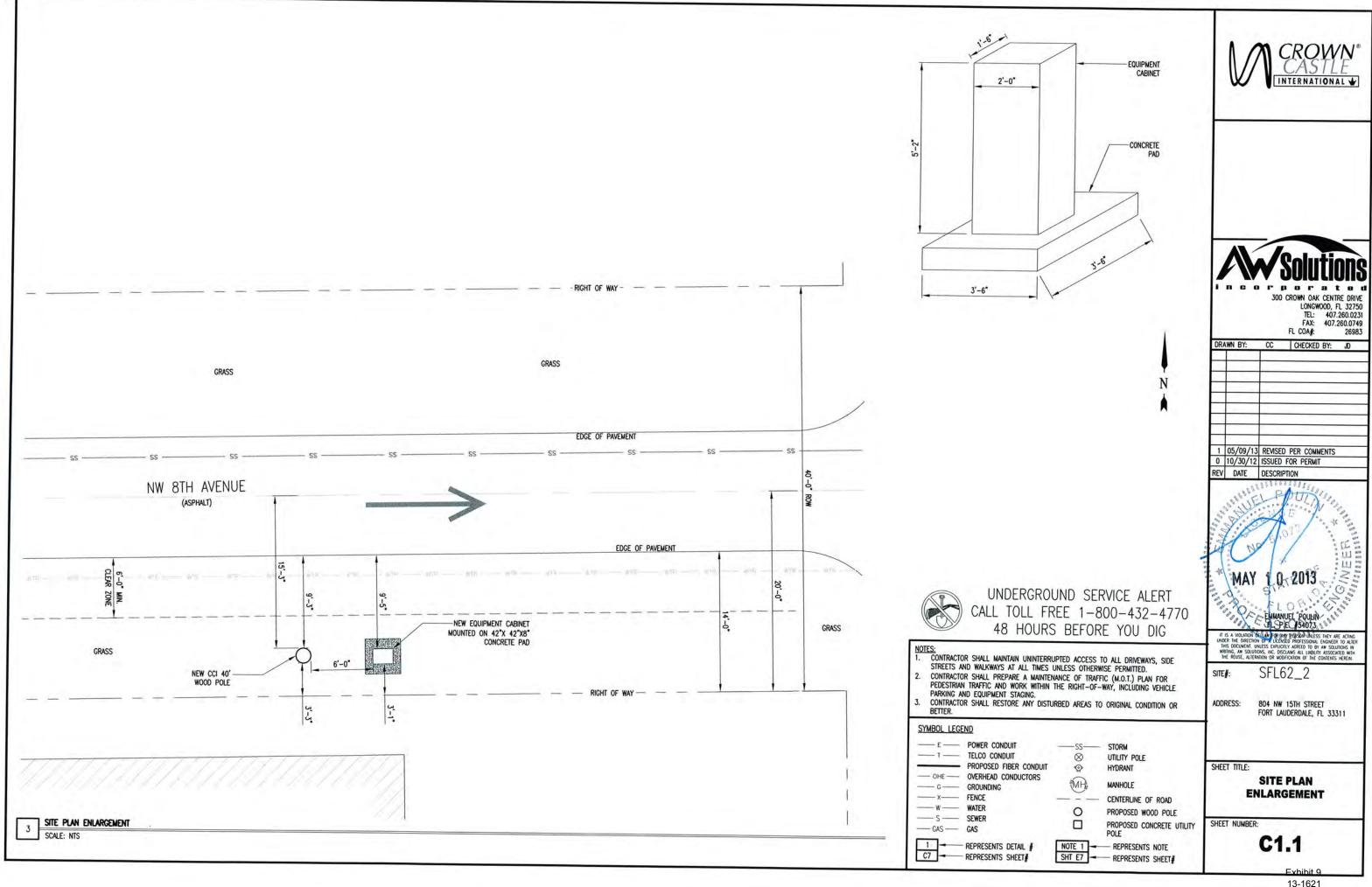
TO MERGE ONTO FL-826 NORTH. TAKE THE EXIT TOWARD FL-826 EAST/BEACHES. MERGE ONTO FL-826 EAST. TURN LEFT ONTO NW 2ND AVENUE (SIGNS FOR INTERSTATE 95 N). TAKE THE RAMP ON THE LEFT ONTO 1-95 NORTH. TAKE EXIT 29A TO MERGE ONTO FL-838 EAST/WEST SUNRISE BOULEVARD. TURN LEFT ONTO POWERLINE ROAD. TURN RIGHT ONTO NW 15TH STREET. DESTINATION WILL BE ON THE RIGHT.



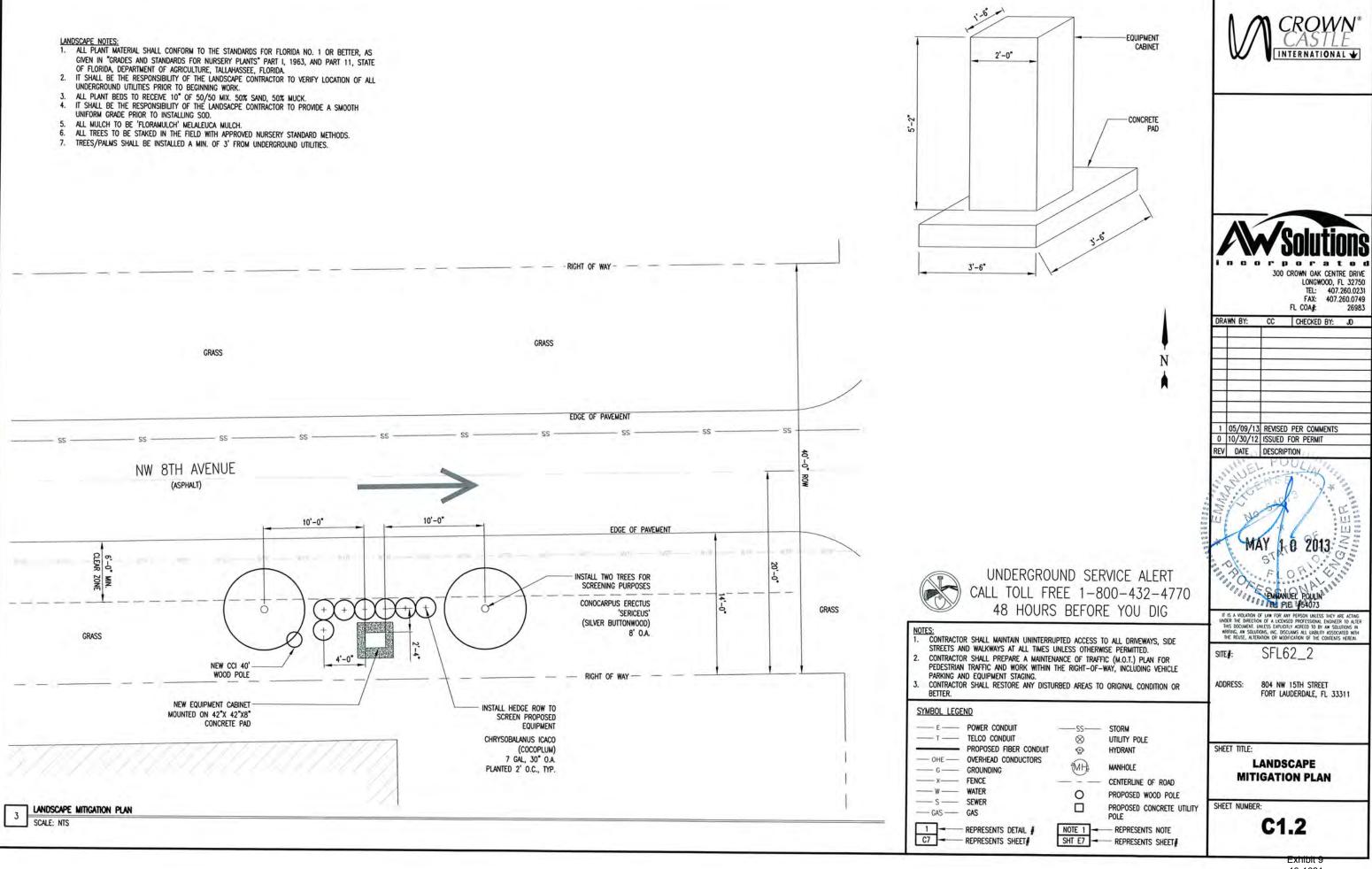
UNDERGROUND SERVICE ALERT CALL TOLL FREE 1-800-432-4770 **48 HOURS BEFORE** 



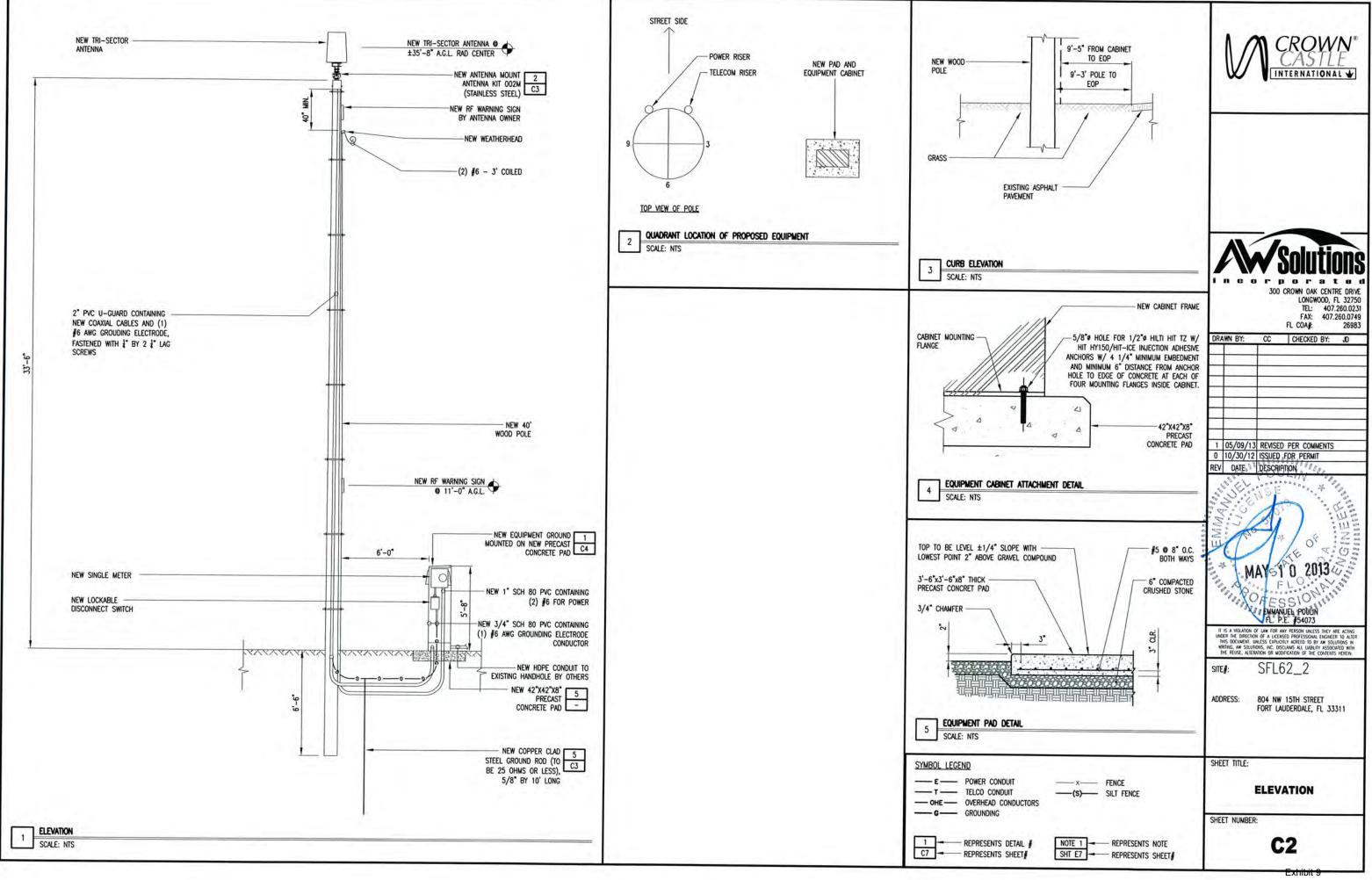
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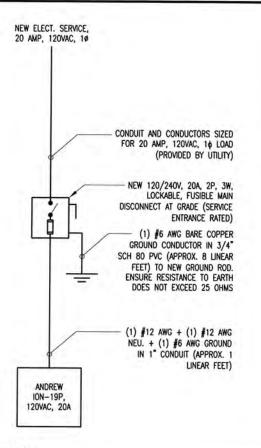


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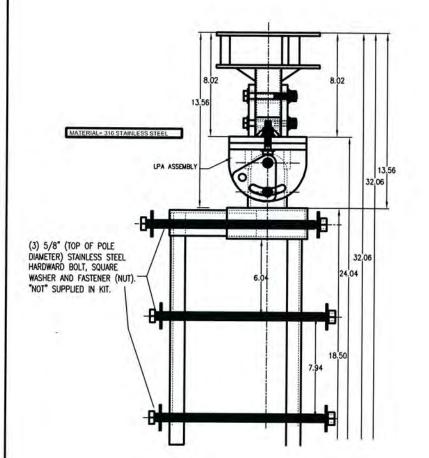




#### RISER DIAGRAM

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.
- 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) 2 SCALE: NTS

## KUTHREIN 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.

aeneral specification	5:
Frequency range	= 1
1/CAMP	_

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 intersystem	>30 d8 >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 ft <sup>2</sup> (0.148 m <sup>2</sup> )		
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 inform	nation.		

GRADE

EXOTHERMIC WELD

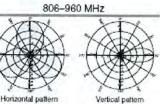
(2) #6 AWG GROUNDING

ELECTRODE CONDUCTOR

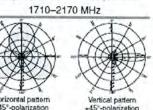
GROUND ROD (COPPERCLAD

STEEL), 5/8" X 10'-0"





±45"-polarization ±45°-polarization



	XXX
Horizontal pattern =45°-polarization	Vertical pattern ±45"-polarizatio

pecifications:	806-866 MHz	824-894 MHz	880-960 MHz	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Gain	11.1 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-polar) >20 dB (total power)	>23 dB (co-polar) >20 dB (total power)	>25 dB (co-polar) >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° Sector ±60°	25 dB (typical) >10 dB	25 dB (typical) > 10 dB	25 dB (typical) >10 dB	16 dB (typical) >10 dB	18 dB (typical) >10 dB	20 dB (typical) >10 dB

#### ANTENNA SPECIFICATIONS

SCALE: NTS

>10 dB

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

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EL.P.E. #54073 IT IS A VIOLATION OF THE FOR MY PERSON DIRESS THEY ARE ACTING UNDER THE DIRECTION OF A LECTION OF PROFESSIONAL ENGINEER TO ALTE HRING, AN SOLUTIONS, INC. DISCLAUS ALL LUBLITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SFL62\_2 SITE#:

804 NW 15TH STREET FORT LAUDERDALE, FL 33311

SHEET TITLE:

**DETAILS** 

SHEET NUMBER:

C3

2'-6" I GROUND ROD DETAIL

SCALE: NTS

1. GROUND ROD TO BE DRIVEN 10' VERTICALLY.

### FINISHED GRADE, STONE, ASPHALT,-RESTORE SURFACE TO MATCH CONCRETE PAVING OR SOD. MATCH SLOPE 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) 6" MIN. NEW UNDERGROUND CONDUIT(S) TRENCHING DETAIL (IF APPLICABLE, REFER TO SITE PLAN) SCALE: NTS

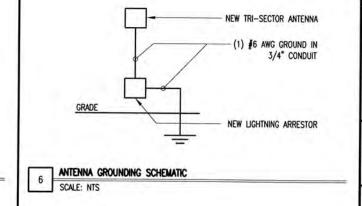
PROVIDE SCHEDULE 40 PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.

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

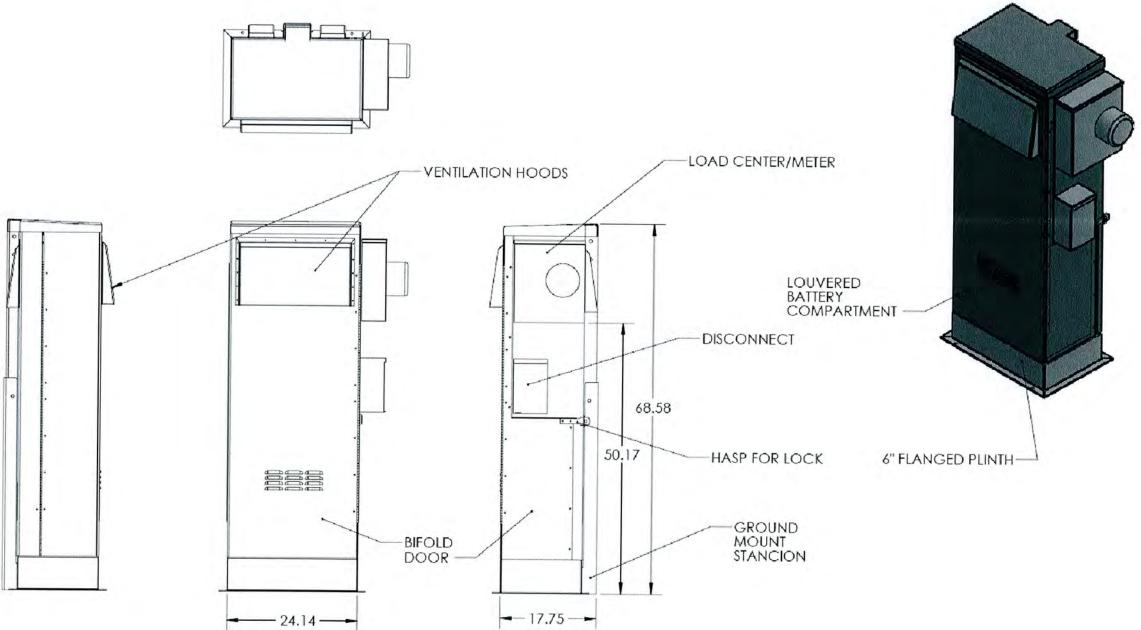
INSTALL UTILITY PULLBOXES PER NEC.

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."







**Solutions** 

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

DRAWN BY: CC CHECKED BY: JD

1 05/09/13 REVISED PER COMMENTS 0 10/30/12 ISSUED FOR PERMIT

REV DATE DESCRIPTION

MAY 10 2013

FE. P.E. 154073,
IT IS A MOLATION OF LAW THEY ARE PAYED BY THE ACTING
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HIS DOCUMENT, UNICES EXPLICITLY ASSECT TO BY AY SOLUTIONS IN
WHATING, AY SOLUTIONS, INC. DOCUMENT ALL LIBERATURY ASSOCIATION WHITE
HIS REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SITE#: SFL62\_2

ADDRESS: 804 NW 15TH STREET FORT LAUDERDALE, FL 33311

SHEET TITLE:

DETAILS

SHEET NUMBER:

C4

Exhibit 9 13-1621

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

- GENERAL PROMSONS

   CONTRACT OVERMENT
  THE INTENTION OF THE DOCUMENTS IS TO SHOW THE COMPLETE INSTALLATION AND TO INCLUDE ALL LABOR AND
  MATERIALS REASONABLY INCCESSARY, WHETHER OR NOT SPECIFICALLY INDICATED, FOR THE PROPER EXECUTION AND
  COMPLETION OF THE WORK AS SIPULATED IN THE CONTRACT. THE INTENT OF THIS DOCUMENT IS NOT TO DESIGNATE
  THE MEANS AND METHODS OF PROCEDURES OF THE WORK THE CONTRACTOR SHALL SUPERMSE AND COORDINATE ALL
  WORK, USING HIS PROFESSIONAL INIOWLEDGE AND SIGLIS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS,
  METHODS, TECHNIQUES, PROCEDURES, SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE
  CONTRACT.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES, STANDARDS

- SUPPLEMENTS:

  FBC FLORIDA BULLDING CODE 2010

  ASC AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS

  IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

  NEC NATIONAL ELECTRICAL CODE

  NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

- UL UNDERWRITERS LABORATORIES
- NSPC NATIONAL STANDARD PLUMBING CODE
- NSYC NATIONAL STANDARD PUBLISHING CODE
  INC INTERNATIONAL MECHANICAL CODE
  NEPA NATIONAL FIRE PROTECTION ASSOCIATION
  OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
  ANS/TIA TELECOMADINICATIONS INDUSTRY ASSOCIATION 222—G STANDARD
  ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND ORDINANCES
- THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE
- PEQUIREMENTS.

  THE ENGINEERING DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT.

  INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ENGINEERING DRAWINGS DUE TO CHANGES

  AFFECTING EDISTING ELECTROAL OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO A PART OF THIS CONTRACT.

  REPORT THOSE AREAS AND ASCERTAIN WHAT IS NEEDED TO DO THAT WORK IN ACCORDANCE WITH THE CONTRACT

  REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.

  DO NOT SCALE DRAWNOS. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE.

  MINOR DEVALUTIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK

  HOWEVER, NO CHANGE THAT ALTER THE CHARACTER INTENT OF THE DESIGN MILL BE MADE OR PERMITTED BY THE

  CHAMBED WITHOUT A CHANGES GIGGER.

- OWNER WITHOUT A CHANCE ORDER
- GENERAL CIVIL, STRUCTURAL ELECTRICAL AND ANTENNA DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE GENERAL
- Contractor.

  The general hotes contained herein are part of the plans and specifications, and are to be computed with in all respects. The most restrictive notes specified are to take precedence. Certain sections of the general notes may not apply to every site. The contractor is to comply with all applicable general
- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENT TO BE USED IN CONDITIONS WHICH ARE
- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENT TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OHERWISE.

  REPRESENTATION OF TRUE NORTH OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF THE TRUE NORTH AT THE SITE. THE CONTROTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY DRAWING AND ANY SURVEYOR'S MARKING AT THE SITE FOR THE ESTABLISHMENT OF THE TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PROOT OF PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VIRSOUS ELBERIST OF THE WORKING DRAWINGS AND THE TRUE NORTH ORDERTAGES OF SHALL ASSUME SOLE LABILITY FOR ANY FAILURE TO MOTIFY THE ENGINEER.
- ENGINEER.
  THE CONTRACTOR SHALL USE ADEQUATE HUMBERS OF SKILLED WORKNIEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE INCCESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
  THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB STIE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKNIEN HOURS. THE
- CONTRACTOR PURTHER ARREST TO INDENNEY AND HOLD THE DESIGN DIGINEER HARMLESS FROM ANY AND ALL LABBILTY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

  HE CONTRACTOR SHALL BE RESPONDIBLE FOR COMPLINING WITH ALL SAFETY PRECAUTIONS AND REQUILATIONS SUCH AS OSHA COMPLIANCE DURING THE PROGRESS OF THE WORK. THE ENGINEER WILL NOT ADMISE HOR PROMOE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- ACTOR SHALL ASSUME COMPLETE RESPONSIBILITY OF THE SECURITY OF THE SITE UNTIL COMPLETION OF THE

- CONSTRUCTION.

  IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRIPTED. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PEEPORAUNG WORK ON THIS SIDE SITE DURING THE PERFORMANCE OF THIS CONTRACT TO AVOID DELAYS IN THE CONTRACT SCHEDULE OR OTHER WORK PERFORMED IN THE VICINITY OF THE CONSTRUCTION AREA.

  THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE PROPERTY OWNER WELL IN ADVANCE OF THE STARTING DATE OF THE WORK. THE OWNERS SHALL ALSO BE NOTIFIED OF A CHANGE IN THE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.

  EACH CONTRACTOR OF REPORTIOSIEF FOR PULING THE BURDING PERMIT AT THE LOCAL JURSDICTION AS THE CONTRACTOR OF RECORD, AND SHALL PROVIDE THE JURSDICTION WITH ALL PROVICE THE JURSDICTION WITH ALL PROVIDE THE JURSDICTION TO SECON TO SECON THE WORK.
- COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATIONS, ETC. PRIOR TO REGIN THE WORLD
- COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATIONS, ETC., PRIOR TO BEGIN THE WORK.

  THE CONTRACTOR IS RESPONSIBLE FOR PROVINGIN AUPLE NOTICE TO THE BULLIONS INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 48 HOURS OF MOTICE SHOULD BE GIVEN TO AUTHORITIES. AN EXTENSION IN THE CONTRACTS SCHEDULE WILL NOT BE GRANTED DUE TO DELAY CAUSED BY INSPECTIONS. EACH CONTRACTOR INSPECTIONS. SHOULD BE PROVIDED TO THE OWNER PRIOR TO THE WORK.

  A COPY OF THE APPROVED PLANS SHALL BE REPT IN A PLACE SPECIFIED BY THE GOVERNING ACHICY, AND BY LAW SHALL BE AWAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION HOME. THE OWNERACTOR SHALL ASO MANTAIN ONE SET OF PLANS AT THE PURPORATION FOR ALL ASSO MANTAIN ONE SET OF PLANS AT THE PURP PURPOSE OF DOCUMENTING ALL AS-BUILTS CHANGES, REVISIONS, ADDERBOL AS CHANGES ORGERS.
- ADDENDA, OR CHANGES ORDERS. ADDOING, OR CHANGES CRIDERS.

  THE CONTRACTOR IS TO PROVIDE THE OWNER WITH A FULL SET OF RECORD DRAWINGS WITH ACTUAL DIMENSIONS, ROUTING AND CIRCUITS UPON COMPLETION OF CONSTRUCTION.

  THE CONTRACTOR IS TO CONTACT BOTH LOCAL POWER AND TELEPHONE UTILITY COMPANIES BEFORE CONSTRUCTION BEGINS TO ORDER SERVICE, GRAIN AND PAY ALL FEES ASSOCIATED WITH CONSTRUCTION, SCHEDULE INSTALLATION OF SERVICE, COORDINATE CONDUIT RUN/TERMINATION POINT AND OBTAIN ANY FIELD MATERIALS THAT MAY BE SUPPLIED BY
- THE UTILITY COMPANIES AND INSTALLED BY THE CONTRACTORS.

  THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK AND THE PROTECTION OF ALL WORK DURING CONSTRUCTION TO AVOID DAMAGE, COLLAPSE, DISTORTION, MISALIGNMENT AND
- ALTERATION OF ROOFING WARRANTIES
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOLLET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR COVERNING ASENCY.

  THE CONTRACTOR SHALL MONTRO ALL DESIRING STRUCTURES DURING CONSTRUCTION.

  THE CONTRACTOR SHALL CONTRINATE THE FINAL DIMENSIONS OF ANY TYPE OF BEAM LAYOUT WITH THE FOOTPRINT OF
- NEW EQUIPMENT BEFORE ORDERING ANY MATERIALS.
- THE NEW EQUIPMENT BEFORE ORDERING ANY MATERIALS.

  B. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN SAFE CONDITIONS PROR TO INSTALLATIONS, AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT.

  29. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY LOCATION AND IN A MANNER THAT WILL NOT DESTRICT THE FLOW OF OTHER WORK RELATED OR NOT TO THIS CONTRACT. ANY EQUIPMENT OR MATERIAL STORMER MUST MEET ALL RECOMMENDIATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL INSPECT THOROUGHLY ALL MATERIALS AND EQUIPMENT PROR TO FINAL INSTALLATION. DAMAGED EQUIPMENT OR MATERIALS SHALL NOT BE INSTALLED PERMANENTLY.

  30. ALL MATERIALS SHALL BE INSTALLED POR THE MANUFACTURERS' INSTRUCTIONS.

  BY CHECK TO AN MARINE STORMS SILVIA SE NON DESCRIBED AND SOME TRALE STALL EMPLOYERS.
- 31. EXCEPT FOR WARNING SIGNS SUCH AS "NO TRESPISSING" AND SIGNS THAT STATE OWNERSHIP AND EMERGENCY TELEPHONE MUMBERS, NO SIGN SHALL BE LIGHTED ON THE TOWER.

  32. ALL EQUIPMENT SHALL BE INSTALLED LEVEL AND PUMB.

- 2. ALL EQUIPAENT SHALL BE INSTALLED LEVEL AND PLUMB.
  2. EISTING CONDITIONS AND STRUCTURES.
  BETORE BEGINNING WORK AT THE SITE, THE CONTRACTOR SHALL INSPECT THE EXISTING COMPOUND OR BUILDING AND DETERMINE THE EXITENT OF EXISTING FINISHES, SECOLITIES, EQUIPMENT AND OTHER ITEMS WHICH MUST BE REMOVED AND PERISTALLED IN ORDER TO PERFORM THE WORK HOURER THIS CONTRACT. THE CONTRACTOR MUST VERBY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. NO EXTRA CHARGE OR COMPENSATION SHALL DE ALLOWED DUE TO DETERMINES BEFORE ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRIWINGS. ALL DISCREPANCES SETWED ACTUAL DIMENSIONS AND DIMENSIONS BIFORE AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORGMANLIKE MANNER IN ACCORDANCE WITH ACCORDANCE
- BEFORE PROCEEDING WITH THE WORK ALL MARKS SHALL BE FEBRUARIED AND THE HAS THOROUGHLY REVIEWED AND UNDERSTOOD THE CONSTRUCTION DOCUMENTS, VISTED THE SITE AND IS FAMILIAR WITH THE CONDITIONS ENCOUNTERED
- AT THE SITE.

  THE CONTRACTOR, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING WHICH SUCH THE CONTRACTOR MIGHT NOT HAVE PULLY INFORMED HIMSELF PROR TO BIDDING. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCESTING THE WORK TO BE PERFORMED WILL BE ACCEPTED AS A REASON FOR ANY FALLING OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL THE REQUIREMENTS OF THE CONTRACT
- IT IS UNDERSTOOD BY THE OWNER THAT THE CONTRACTOR IN SUBMITTING HIS BID, WARRANTS THAT HE HAS CAREFULLY EXAMINED THE SITE OF THE PROJECT TO ACQUAINT HIMSELF WITH THE SURROUNDING PROPERTIES, THE MEANS OF APPROACH TO THE SITE, THE CONDITIONS OF THE ACTUAL JOB SITE, THE FACILITIES FOR DELIVERING, STORING, PLACING.

- HANDLING AND THE REMOVAL OF MATERIALS AND EQUIPMENT AND ANY AND ALL DIFFICULTIES THAT MAY BE ENCOUNTERED DURING THE EXECUTION OF THE ALL WORK IN ACCORD WITH THE CONTRACT DOCUMENTS. THE LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED THE
- CONTRACTOR FAILURE TO LOCATE ALL UNDERGROUND UTILITIES BEFORE COMMENCING WOR COMINACION FALIDA. TO LOCALE ALL UNDERFROUND UTILITIES BEFORE COMMERCIAN WORK.

  SHOULD ANY ERROR OR INCONSISTENCY APPEAL IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR BEFORE PROCEDURG WITH THE WORK MUST MAKE MENTION OF THE SAME TO THE ENGINEER AND OWNER FOR PROPER ADJUSTMENT AND IN NO CASE PROCEDE WITH THE WORK IN UNCERTAINTY OR WITH INSUFFICIENT DRAWINGS. AT THE CONTRACTOR AND EACH SUGCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DONG ANY WORK. NO EXTRA CHARGE OR CONSIDERATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS MIXICALED ON THE CONSTITUCTION.
- ALLONED DUE TO DEPERATE BEHINDER ACTIVE DIRECTIONED AND DIRECTIONED INDICATED OF THE ENGINEER AND THE DRAWNES, ANY DISCREPARCY IN DIRECTIONS WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ENGINEER AND THE OWNER REPRESENTATIVE FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE

- OWNER REPRESENTATIVE FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS. THE CONTRACTORS WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR ITS REPRESENTATIVE.

  TRADE, PRODUCT NAMES OR MANUFACTURER'S NAMES OR CATALOG NUMBERS AND INDICATIONS OF EXISTING PRODUCT TYPES SHOWN ON THE DRAWNICS ARE BELIEVED TO BE ACCURATE. IF THEY ARE DISCOVERED TO BE INACCURATE, NOTIFY ENGINEETS IMMEDIATELY AND DO NOT PROCEED WITHOUT INSTRUCTIONS.

  PROOF TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGES WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGES TO NEW OR DUSTING SHALL PROSECT OF THE PROTECT OF THE CONTRACTOR SHALL BE AREAS THE COST OF REPARING OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL TWE ALL PRECAUTIONARY MESSURES AND EFFORTS TO PROTECT THE STRUCTURAL INTEGRTY OF EDSTING STRUCTURES. WHEN WORK IS PERFORMED IN THE WIGHTY OF EXISTING STRUCTURE, WHEN THE STRUCTURAL INTEGRTY OF EXISTING STRUCTURES. WHEN WORK IS PERFORMED IN THE WIGHTY OF EXISTING STRUCTURE, WITH STRUCTURAL INTEGRTY OF EXISTING STRUCTURES. WHEN WORK IS PERFORMED IN THE WIGHTY OF EXISTING STRUCTURE, WITH STRUCTURAL INTEGRTY OF EXISTING STRUCTURES. WHEN WORK IS PERFORMED IN THE WIGHTY OF EXISTING STRUCTURE, THE STRUCTURAL INTEGRTY ON STRUCTURES. WHEN WORK IS PERFORMED IN THE WIGHTY OF EXISTING THAT CONSTRUCTURE.

  THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONIMENTATION, ANY MONIMENTATION DISTURBED OR DESTROYCO, AS JUDGED BY THE OWNER OR OWNER'S REPRESENTATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPRESS THE WIGHTY SHALL BE REPLACED AT THE CONTRACTOR'S EXPRESS THE CONTRACTOR'S SHALL PROTECT EXISTING CONSTRUCTION SHALL BE ADDRESSED AND THE PLANS, THE CONTRACTOR SHALL BROWN THE SUPERIOR SHALL BE ADDRESSED AND THE WIGHTY OF A LICENSED LAND SURVEYERS.

  MEET MODERN ON SHALL BROWN SUBSIDIAGES SHALL BROWN EXPRESS THE CONTRACTOR SHALL BROWN SHALL BE RELIVED TO BEST THE CONTRACTOR SHALL BROWN SIDES SHAPE STRUCTURES. SHOWE CROWN TRUCTURES SHAL

- THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE—GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORK NEW, A SUBSTIMENT OF MORNING AREA, EVACT LOCATION OF WHICH HAY YAPY FROM THE LOCATIONS INDICATED, IN PARTICULAR, THE CONTRACTION IS WARNED THAT THE EVACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE IS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN BEQUITING ANY WORK BEFORE YOU BIG, DRUL OR BLAST, CALL THE UNDERSOUND SERVICES ALER! NUMBER ON SHEET TI AT THE ROUNGED TIME.

  ALL DISTING ACTIVE SEWER, WATER GAS, LECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES, WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE REJOCATED AS DIRECTED BY ENGINEERS. EXTRIBLE CONTINON SHOULD BE USED BY THE CONTRACTOR WHEN EXCANATING OR PIER BRAILING AROUND OR NEAR UTILITIES. THE CONTRACTOR WHEN EXCANATING OR PIER BRAILING AROUND OR NEAR UTILITIES. THE CONTRACTOR WHEN EXCANATING OR PIER BRAILING AROUND OR NEAR UTILITIES. THE CONTRACTOR WHEN EXCANATING OR PIER BRAILING AROUND OR NEAR UTILITIES. THE CONTRACTOR WHEN EXCANATING OR PIER BRAILING AROUND OR NEAR UTILITIES. THE CONTRACTOR WHEN EXCANATING OR PIER BRAILING AROUND OR NEAR UTILITIES. THE CONTRACTOR WHEN EXCANATING OR PIER BRAILING AROUND OR NEAR UTILITIES. THE CONTRACTOR WHEN EXCANATING OR PIER BRAILING AROUND OR NEAR UTILITIES. THE CONTRACTOR WHEN EXCANATING OR PIER BRAILING AROUND OR THE WORK, THE CONTRACTOR IS TO REMOVE THE UTILITY WORK SHALL BE DONE IN ACCORDING WITH THE UTILITY COMPANIES EXCOUNDED AND PER LOCAL AUTHORITY HAVING JURSSICTION.

  ALL UTILITY WORK INDUCTIVE COMPANIES ECOUNDED AND STED OR AND EXCENT CONNECTION TO EXISTING SYSTEMS IS MADE.

- MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS LETERAINED BY THE OWNER OR OWNER'S REPRESENTAINED PROTECT PRIVALED SURFACES INCLIDING JAMES AND HEADS OF OPENINGS USED AS PASSAGEMANT THROUGH WHICH WHICH
- ECTION FOR EQUIPMENT ROOM SURFACES PRIOR TO ALLOWING EQUIPMENT OR MATERIALS TO BE MOVED ain finished surfaces clean, unarmed and suitably protected until job site is accepted by the
- OWNER. IN THE EVENT OF DAMAGE TO AN EXISTING STRUCTURE, THE CONTRACTOR SHALL NOTIFY THE OWNER OR ITS REPRESENTATIVE IMMEDIATELY, AND THEN PROMPTLY MAKE ALL REPLACEMENTS AND REPAIRS TO THE SATISFACTION OF THE OWNER. THE OWNER MAY ELECT TO USE A THIRD PARTY CONTRACTOR TO PERFORM THE REPAIRS. ALL EXPENSES ASSOCIATED WITH THE REPAIRS AND REPLACEMENTS SHALL BE PAID BY THE GENERAL CONTRACTOR SELECTED FOR THIS
- ADDITIONAL TIME REQUIRED TO SECURE REPLACEMENT AND MAKE REPAIRS WILL NOT BE CONSIDERED BY THE OWNER TO JUSTIFY AN EXTENSION IN THE CONTRACT TIME FOR COMPLETION.
- ACCESS

  VISE MOST DIRECT ROUTE FROM PUBLIC STREET AS AGREED TO BY COMPOUND OR BUILDING OWNER. FOR ACCESS TO AN EXISTING BUILDING INTERIOR, USE LOADING DOCK AS AGREED TO BY BUILDING OWNER.

  COORDINATE WITH SITE OWNER CONSTRUCTION SCHEDULE & SITE ACCESS. ENSURE THAT THE OWNER OF PARENT
- PARCEL IS NOTIFIED IN WRITING OF CONSTRUCTION ACTIVITIES A LIST OF WORKERS INVOLVED IN THIS PROJECT SHALL BE PROVIDED TO THE PROPERTY OWNER OR ITS
- REPRESENTATIVE.

  THE CONTRACTOR SHALL COORDINATE ALL SPECIAL CONSIDERATIONS OF CONSTRUCTION SUCH AS NOISY OPERATION, INTERRUPTION OF ANY MECHANICAL AND/OR ELECTROCAL SERVICES, MATERIAL DELIVERES AND STORAGE, STAGING AREA, CRANE LIFTS WITH THE OWNER PROR TO THE START OF THE WORK.

  CONTRACTOR SHALL COORDINATE WITH AN OWNER REPRESENTATIVE, THE TEMPORARY REMOVAL OF FENCE, LINDSCAPING & ANY EXPECTED DAMAGE TO ACCESS ROAD OR ADJACENT REPAIR OF PROPERTY PROR TO COMMENCING THE WORK.

  THE CONTRACTOR SHALL COORDINATE WORK HOURS & STAGING AREAS WITH OWNER.

  CONTRACTOR SHALL COORDINATE WORK HOURS & STAGING AREAS WITH OWNER.

  CONTRACTOR SHALL COORDINATE WORK HOURS & STAGING AREAS WITH OWNER.

  STEP MAINTENANCE.

- 7. CONTRIGUIOR TO WOIRT PROFERIT OWNER OF CONSIDERATION SURFACES IMMEDIATELY, REMOVE HAZARDOUS ACCUMULTORS OF REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS ACCUMULTIONS OF DEBRS PROMPTLY, AT LEAST DALLY, CONFINE DUST PRODUCING OPERATIONS DURING CUTTING, DRUJING, PAINTING AND FINISHING. THERE SHOULD BE NO OVER SPRAYING PAINT IN PARGING AREA. VACUUM IMAGENITELY AFTER COMPLETION.
  2. THERE SHALL NOT BE ANY CREATION OF NOISE OUTSIDE THE NORMAL HOURS OF 7 AM TO 6 PM, UNILESS OTHERWISE ASSETS ILEAN WITH THE PROPREDICT CONSTITUTION.
- THERE SHALL NOT BE ANY CREATION OF MOSE OUTSIDE THE NORMAL HOURS OF 7 AM TO 6 PM, UNLESS OTHERWISE AGREED UPON WITH THE OWNER. MOSE SHOULD BE KEPT TO A MINIMUM THROUGHOUT CONSTRUCTION. HOISE AND EUSTING BUILDING STRUCTURE VIBRATION GENERATED BY CONSTRUCTION PROCEDURES, EQUIPMENT, TOOL AND OPERATIONS ARE TO BE KEPT TO A PRACTICABLE MINIMUM. WHERE USE OF HIGH MOSE LEVEL EQUIPMENT IS UNAVOIDABLE, AND CAN THE HADD, CONFINE TO HOURS BEFORE 7 AM. AND ATTER 6 PM. MONDAY THROUGH FRIDAY OR AS ARREED TO BY BUILDING OWNER. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2 ABC. WITHIN 75FT OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEW AND ORDERLY SITE, YARD AND GROUNDS, REMOVE AND DISPOSE LECALLY OFF SITE ALL RUBBESH, WASTE MATERNAS, LITTER, MID ALL FOREIGH SUBSTANCES. ROMOVE PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAWE GROUNDS TO A SMOOTH EVEN-TEXTURED SURFACE.
- SUPPAILS AT PROJECT COMPLETION, REMOVE TEMPORARY SERVICES, CONSTRUCTION EQUIPMENT, TOOLS AND FACILITIES, MOCKUPS, TEMPORARY STRUCTURES, SURPLUS MATERIALS, DEBRIS, AND RUBBISH FROM BUILDING OWNERS PROPERTY. PUT SITE IN NEAT, ORDERLY CONDITION, REDDY FOR USE. LEAVE ROOF AREAS, PIPE SPACES AND OTHER SPACES CLEAN AND FREE SOUL RESPIES OF ALL DILLY ASSET.
- NEAT, ORDEREY CONDITION, NEADY FOR USE. LEAVE ROOF AREAS, PIPE SPACES AND OTHER SPACES CLEAN AND FI FROM DEBRIS ON A DULY BRIST, SHALL BE MAINTAINED AT ALL THIES DURING CONSTRUCTION IN GROER TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE PREMISES. EXISTING AND NEW EQUIPMENT AND MATERIALS REJAIN THE CONTRACTOR'S RESPONSIBILITY AT ALL TIME DURING CONSTRUCTION.
- THE TENANT'S INGRESS AND EGRESS OF THE SITE AND/OR BUILDING SHALL BE MAINTAINED THROUGHOUT
- construction.

  The contractor shall take all measure necessary to maintain pollution control, comply with all governing regulation pertaining to environmental protection, and promptly remove all debris and accumulation of materials resulting from the work. <u>Temporary facilities</u>
  The contractor shall consider that water, power and light are not available at this site, when
- PERMANENT POWER IS ESTABLISHED, ALL CONTRACTORS MAY USE THE SERVICE CONNECTION FOR PRODUCTION WORK ONLY, PROVIDED THAT ELECTROAL CORDS AND CONNECTIONS ARE FURNISHED BY THE CONTRACTORS AND ARE DISCONNECTED AND PROPERTY STORED DURING NON-WORKING HOURS.

  THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.

- 2.— DEMOLITION AND EXISTING STRUCTURAL ALTERATION
  2.1 DEMOLITION SPECIFICS
  1. GENERAL CONTRACTOR IS TO DEMOUSH AND REMOVE FROM SITE (AND DISPOSE OF APPROPRIATELY) ALL ITEMS NOTED FOR DEMOLITION IN THE ARCHITECTURAL, CML, ELECTRICAL AND/OR STRUCTURAL DRAWNES, INCLUDING BELOW GRADE FOUNDATION AND STRUCTURES. CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF THE PROPERTY OF
- Company is alternal.

  Ceneral Contractor is to exercise utmost care during demolition and promptly inform the engineer of any devaition to the edisting structure from what is shown in these plans proof to proceeding with the
- WORK.

  GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SHORING, BRACING, PROMDING LATERAL SUPPORT, AND FOR MANTANING THE INTEGRITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF THE DEAGLITION AND CONSTRUCTION AND SHALL PROMDE, IF REQUIRED, SIGNED & SEALED SHOP DRAWINGS, BY A REGISTERED PROFESSIONAL ENGINEER, FOR THE SHORING OF ALL WALLS, BEAMS, SLABS, ROOF JOISTS, OR OTHER ELEVATED STRUCTURAL ITEMS, THAT ARE

- having the support below noted for demolition.

  Any damage due to demolition, or other construction activities, done to any existing surface to remain SHALL BE REPAIRED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER
- 2.2 CUTING & PAICHING

  1. DO NOT DRILL OF CUT EXISTING FLOOR JUSTS, BEAAS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS
  SPECIFICALLY INDICATED, DRILL SLABS WHERE APPROVED, CORE DRILL CRICULAR OPENINGS THROUGH CONCRETE SLAB.
  LINE DRILL FOR RECTANGULAR OPENINGS, MAKE OPENINGS OF PROPER SZE FOR COMOUNT, DUCIS, PIPES AND OTHER TEMS PASSING THROUGH OPENINGS. MAKE ALL NEW HOLES OR OPENINGS BE WEATHER TIGHT OR FIRE SAFE AS
- REQUIRED BY LOCAL BUILDING COORS & ORDINANCES.

  PREPARE, SUBJIT AND RECEIVE APPROVAL OF SLEEVES AND OPENING DRAWINGS BEFORE LOCATING SLEEVES AND OPENINGS IN NEW CONSTRUCTION AND BEFORE DRILLING EXISTING STRUCTURE. SHOW EACH OPENING AND SLEEVE IN
- THE ENTIRE PROJECT.

  SEAL WAITER TIGHT AND PROTECT WITH FIRE PROOFING MATERIALS NEW SLEEVES AND OPENINGS THROUGH ROOFS, FLOORS AND INVESTIGAL CHASES AS REQUIRED BY CODE AND INDUSTRY STANDARDS. ALL FLOOR AND WALL PENETRATIONS SHALL BE SEALED WITH FIRE RETARDANT COMPOUND MEETING U. CAUSGAS.
- THE CONTRACTOR SHALL PROVIDE THE FIRE WARSHALL APPROVED WATERIALS TO FILL/SEAL PENETRATIONS THROUGH
- FIRE RATED ASSEMBLIES FIRE RATED ASSUMBLES.

  WHERE CUTING OF EXISTING SUBFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK UNDER THIS CONTRACT AND A NEW FINISH IS NOT INDICATED, FILL RESULTING OPENINGS AND PATCH THE SUBFACE AFTER DOING THE WORK AND FINISH TO MATCH ADMICENT EXISTING SUBFACES.

  EXCEPT IN SPACE WHERE NO WORK LUNGER THIS CONTRACT IS REQUIRED, DIALOSE EXISTING AND NEW CONDUITS, DUCIS, PIPES AND SIMILAR ITEMS IN FURRING WHERE SUCH ITEMS PASS THROUGH FINISHED SPACES WHETHER OR NOT
- all concrete and masonry penetrations shall be done using rotary action only (no hammering action).
- X-RAYS ARE TO BE TAKEN PRIOR TO DRILLING.

  CORE LOCATIONS IF REQUIRED SHALL BE CHOSEN SO AS TO AVOID CUTTING MY REINFORCING BARS. FIRESTOP FLOOR
  OR WALL PENETRATION WITH TWO HOUR RATED SEALANT TO MEET UL CAUSOAS. PROVIDE WEATHERPROOFING OF ANY
  ONCE SUCCEPTURE. roof penetrations. Repair, patch, finish and/or refinish as applicable to match adjacent eosting finishes those existing
- SURFACES DAMAGED OR NEW PROPOSED SURFACES DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT, WHERE CONDUITS, DUCTS, PIPES AND SIMILAR ITEMS ARE SHOW TO BE INSTALLED IN EDSTING WALLS OR PARTITIONS. INSTALL THE TIMES AND PATCH THE WALLS OR PARTITIONS. INSTALL THE TIMES AND PATCH THE WALLS OR PARTITIONS INSTALL THE TIMES AND PATCH THE WALLS OR PARTITIONS TO MAKE THE
- NEATLY CHASE THE WALLS OR PARTITIONS. INSTALL THE TIMES AND PATCH THE WALLS OR PARTITIONS TO MAKE THE INSTALLATION NOT DISCREMISE. IN THE FINISHED WORK.
  WHERE A NEW CUTTING IS NOT SCHEDULED, INSTALL NEW COMDUITS AND PIPES IN EVERY CASE, AND NEW DUCT WHERE POSSIBLE ABOVE DISTING CEUNG, REMOVE DUSTING CEUNG AS NECESSARY, AFTER INSTALLATION OF CONCEALED WORK, REINSTALL REMOVED CEUNG AND PATCH AND REPINSH TO MATCH ADJACENT UNREMOVED CEUNGS. REPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING MY EXISTING RUST AND APPLYING.
- 3 SITE WORK
  3.1. CLEARING AND GRUBBING
  1. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR THE CONSTRUCTION OF THE FACULTY SHALL BE REMOVED. ANY DAMAGES TO PROPERTY OUTSIDE THE CONSTRUCTION
  1. THE CONTRICTION SHALL BE REPLACED AT THE CONTRICTION'S DEPENSE.
  2. THE CONTRICTION SHALL PROTECT DESTING TREES, VEGETATION, LANDSCAPING MATERIALS AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING OR REMOVAL WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
- TRIM EXISTING TREES AND VEGETATION AS RECOMMENDED BY THE ARBORRST FOR PROTECTION DURING CONSTRUCTION.
  CLEAR AND GRUB STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND SITE IMPROVEMENT. STRIP AND STOCKPILE TOPSOIL
- PROTECT TEMPORARILY ADJACENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS. MARK DESIGNATED TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES. PROVIDE TEMPORARY EROSON CONTROL STATION CONTROL AND DUST CONTROL REMOVE AND LEGALLY DISPOSE OF CLEARED MATERIALS.
- AL SUTIABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND
- INSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATION APPROVED BY COVERNING AGENCIES PROD all site fill shall meet selected fill standards as defined by the owner's representative on the
- DAVANIES OR GEORGENICAL REPORT RECOMMENDATIONS.

  \* EXCAVATION, TRENCHING, FILLING, COMPACTING AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS, ACCESS ROAD AND UTILITIES.

  \* ALL MATERIALS FOR SUBBASE, DRAINAGE FILL, BACK FILL AND GRAVEL FOR SLABS, PAVEMENT AND
- ROCK EXCAVATION WITHOUT BLASTING.
- ROCK EXCAVATION WITHOUT BUSTING.
  SUPPLY OF ADDITIONAL MATERIALS FROM OFF SITE AS REQUIRED.
  REMOVAL AND LEGAL DISPOSAL OF EXCAVATED MATERIALS AS REQUIRED.
  REMOVAL AND LEGAL DISPOSAL OF EXCAVATED MATERIALS AS REQUIRED.
  FILL LAYERS THAT REQUIRE COMPACTION STALL HAVE A MAXIMUM THICKNESS OF 6 INCHES.
  THE COMPACTING UNDER STRUCTURES, BUILDING SLARS, STEPS, PARPLENT AND WALKWAYS SHALL BE 95% MAXIMUM DENSITY, ASTA D-1557, TESTED IN EACH OF THE COMPACTING LAYERS AT EACH COMPACTING STEP, OR AT LEAST IN EACH 100CU. PER YARDS OF MATERIAL VOLUME.
  THE COMPACTING UNDER LAWNS OR UNPAYED AREAS SHALL BE 85% MAXIMUM DENSITY, ASTA D1557.
  THE COMPACTION UNDER LAWNS OR UNPAYED AREAS SHALL BE 85% MAXIMUM DENSITY, ASTA D1557.
  RESOLUTION ON HOT METER ASTALL HOLT SUCCED 8 INCHES.
- AREAS THAT DO NOT MEET ASTM 0-1557 REQUIREMENTS MUST BE RECOMPACTED AT THE CONTRACTOR'S EXPENSES
- ALL TRENCH EXCAVATIONS AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH
- ALL TRENCH EXCAVATIONS AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA
  REGULATIONS FOR CONSTRUCTION.
   MHERE UNSTABLE SOIL CONDITIONS EXIST, LINE THE GRUBBED AREAS WITH GEOTEXTILE FABRIC (MIRAFI 500X OR
  APPROVED EQUIVALENT) PROOR TO PLACING FILL OR BASE MATERIAL.
   THE USS OF EXPLOSIVE IS PROHIBITED ON SITE.
   ALL EXCAVATION ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIAL HORIZONTAL, UNDISTURBED AND BE
  FREE FROM LODGE MATERIAL AND EXCESS GROUND WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE
  DOMENTIALLY BE PROHIBED.
- PROVIDED IF REQUIRED.

  ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH OTHER MECHANICALLY COMPACTED GRANULAR

  MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO

  STABULE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE

  TRANSMISSES.
- Inkuness.

  Buck fill symll use approved materials consisting of Lowi, Sandy Clay, Sand, Gravel or soft shale and shall be free from Clods or Stones over 2 ½.

  AFTER Completion of the foundation and other construction below grade and before back filling, all excivations shall be clein of unsuitable materials such as vigotation, debass, trush and any foreign
- INCOMPASS.

  THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AWAY FROM BUILDING OR EQUIPMENT ON THE SITE AT ALL TIMES. SLIT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADMOST POPPERIES MUL BE CORPECTED AT THE CONTRACTORS EXPENSES.

  THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE
- COURSE OF WORK.

  ANY DRAIN, FIELD TILE OR DRAINAGE STRUCTURE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS
  ORIGINAL OR BETTER CONDITIONS AFTER CONSTRUCTION AND BE NOTED ON THE RECORD DOCUMENTS.
- ORGINAL OR BETTER CONDITIONS AFTER CONSTRUCTION AND BE NOTED ON THE RECURD DUCUMENTS.

  3.4 ERISSION CONTROL.

  1. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CODES AND CONTROLES TO PROTECT EMBANGAINTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SLIT IN STREAMS AND DRAINES PAINS LEARNING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SLIT FENCE, STRAW BALES, SEDMENT BARRIERS AND CHECK DAMS.

  2. EROSION CONTROL MEASURES MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON DRAWNINGS WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.

  3. PROR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR PRIMAR DIE SITE.
- TO OR FROM THE STIE.

  THE CONSTRICTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT OF WAYS. THIS MAY REQUIRE PERSONIC TOP DRESSING WITH STONE AS CONDITIONS DEAMN, REPAR AND/OR CLEAN OUT OF ARM STRUCTURES USED TO TRAP SEDMENTS. ALL MAIREAUS SHILLD, DROPPED WASHED OR TRACKED FROM VEHICLE OF SITE ONTO ROLOWING OR HOTO STOOM ROWNS MUST BE REMOVED.

  MANEDATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERMETER EROSON CONTROL DEVICES AND STORMANTER MANEDEMENT DEVICES SHALL BE INSTITULED PROTO TO ANY OTHER CONSTRUCTION.

  ALL SLIT BURRIERS MUST BE PLACED AS ACCESS IS OFTAINED DURING CLEARING. HO GRADING SHALL BE DONE UNTIL STEAMS INSTITULED PROTO BENEFIT AND DETERMENT REQUIRES ARE CONSTRUCTION.
- DOWNSTREAM TOE OF CUT AND FILL SLOPES.

  ARE LOCATION OF SOME ENGSON CONTROL DEVICES MAY HAVE TO BE ALTERED FROM WHAT IS SHOWN ON THE APPROVED PLANS IF DRIVINGE PATTERS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRIVINGE PATTERS. IT IS THE CONTRACTOR RESPONDED TO ACCOMPLES EROSON CONTROL FOR DRIVINGE PATTERS CREATED AT VAROUS STAGES DURING CONSTRUCTION. ANY DEFFOLIATY IN CONTROL REGSON DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER MIMEDIATELY. ANY DISTURBED AREA LEFT EXPOSED FOR A PERSON CERTAIN THAN (7) DAYS SHALL BE STABLIZED WITH TEMPORARY SEEDING.

  THE CONSTRUCTION OF THE SITE WILL INITIALE WITH THE INSTALLATION OF EROSON CONTROL MEASURES SUFFICIENT TO CONTROL OF THE SITE WILL INITIALE WITH THE INSTALLATION OF EROSON CONTROL MEASURES SUFFICIENT TO CONTROL SOCIETY AND EROSON. ALL SEDIMENT CONTROL WILL DESTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS AND DRIVEN'S HAVE BEEN COMPLETED. THE CONTRACTOR SHALL INSPECT EROSON CONTROL MEASURES AT THE END OF EACH MORROWS DAY TO ENSURE MEASURES ARE PUNCTIONING PROPERTY.

  FALURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSON CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION SHOULS SHOULD SELFCUL MEASURES ARE CONFECTED.

ISTREAM TOE OF CUT AND FILL SLOPES.

SILT BARRIER INSTALLATION AND DETENTION FACILITIES ARE CONSTRUCTED. SILT BARRIERS SHALL BE PLACED AT ALL

- UTILIZED FOR EROSION CONTROL.

  ALL OPEN SWALES MUST BE GRASSED, AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION, ALL CUT
- ALL OPEN SMALES MUST BE GRASSED, AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSON. ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHED AND VECETATED WITHIN (?) DAYS OF CONSTRUCTION.

  SEEDING AND MULCHING OF THE SITE MILL BE ACCOMPUSHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF VECETATION OVER THE SITE FOR A PERSOO OF ONE YEAR.

  SEEDIBED PREPARATION: AREA TO BE SEEDED SHALL BE LOOSE AND FRAMEL TO A DEPTH OF AT LEAST 3; THE TOP LAYER SHALL BE LOOSEMED PROPAGES HAVE BY ANALY, DISCOUNTS, AND LIVE OF SOUL TEST RESULTS, APPLY SO LBS. OF DOLOMING UNDESTONE AND 25 LBS. OF 10-10-10 FERTILIZER PER 1000 SF. NARROW OR DISK LIMESTONE AND FERTILIZER INTO SOIL TO A DEPTH OF AT LEAST 3" ON THE SLOPES PLATTER THAN 3-1.
- 3:1, SEEDING: APPLY 5-6 LBS. PER 1000 SF. OF KENTUCKY 31 TALL FESCUE. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDED DRILL CULTIPACKER SEEDER OR INTROSSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER RECOMMENDED ON STEEP SLOPES ONLY) ON MOST, FIRM SEEDEDED. MAXWAIN SEED DEPTH SHOULD BE ("WHEN USING THE HYDROSSEEDER LIGHTON, IRRIGATE UNTIL VEGETATION IS FIRMLY ESTABLISHED IF SOIL MOISTURE IS NOT SUFFICIENT TO
- Support adequate growth.

  In concentrated areas, all slopes steeper than 2.5:1 and length of 10 feet or greater, and cuts and
- FILLS WITHIN STREAM BUFFER, SWALL BE STABILIZED WITH THE APPROPRIATE EROSCH CONTROL MATTING OR BUNKETS.
  RIPRAP SWALL BE CLEAN, MARD, SOUND, DURWBLE, UNIFORM IN QUALITY, AND FREE OF MAY DETRINISTIAL QUANTITY OF
  SOFT, FRANCE, THIN, ELONGATED OR LAWMATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI OR
  OTHER DELETEROUS SUBSTANCES.
- tourns.

  The contractor shall seed the graded areas per dot standards. An SI geosolutions land lock CS2
- erosion control blanket shall be installed per the manufacturer's instructions.

  The contractor shall provide adequate watering to ensure favorable growth of vegetation for a period OF 6 INCHIDS.

  ALL GROUNDING, UTILITIES AND UNDERGROUND EQUIPMENT EXPOSED BY GRADING SHALL BE REPLACED AND PROPERLY CONNECTED TO THE EXISTING PORTION OF THE ORIGINAL SYSTEM PER APPROVED CODES AND JURISDICTION.
- ng tolerance for fill under building slabs shall be ±½ inch measure with 10 ft straightedge. Ng tolerances outside building lines stall be ±1 inch for lawns, unpayed areas and walks: and
- ±1/2 INCH UNDER PAVEMENT. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND RE-GRADING ROADWAY AND/OR FIELD FOLLOWING THE NSTALLATION OF UTILITIES
- ANY FILLS PLACED ON EXISTING SLOPES THAT ARE GREATER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY ANY PILLS PLACED ON EXISTING SLOPES THAT ARE GREATER THAN 10 HORIZONTIA. TO 1 VERTICAL SHALL BE PROPER BENCHED INTO THE EXISTING SLOPE.

  THE CONTRACTOR SHALL TAKE SPECIAL CARE TO RE-GRADE THE SITE AND MONITOR THE STABILITY OF EMBANGUENT STEEPER THAN 1:3 AT ALL TIME DURING CONSTRUCTION.

  PROTECT EXISTING GRAZEL SURFACING. AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING SHALLES SURFACED AND ASSESSED MATERIALS.
- GRAVEL SURFACING OR SUB-GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR OPERATIONS. SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE THE SAM

- <u>General</u> Design and construction of all concrete elements shall conform to the latest editions of the following
- APPLICABLE CODES:

  APPLICABLE CODES:

  ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS

  ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE

  ACI 344.1R FIBER REINFORCED CONCRETE (IF SPECIFIED)

  ACI 344.2R REINFORCED CONCRETE (IF SPECIFIED)

  MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PROR TO PLACING CONCRETE.

  CONCRETE SHALL BE NORMAL WEIGHT, 6X ARE PHIRAINED (IF -15X) WITH A MAXMUM OF 4' SLUMP, AND HAVE A

  MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
- MAXIMUM AGGREGATE SIZE SHALL BE 1'.
- THE FOLLOWING MATERIALS SHALL BE USED:
  PORTLAND CINENT: REINFORCEMENT NORMAL WEIGHT AGGREGATE:
- ASTM C 150, TYPE I ASTM A 185 & A 615 ASTM C 33 DRINKABLE NON-CHLORIDE CONTAINING ADMIXTURES: FIBEROUS REINFORCEMENT
- PRERIOUS REINFORCEMENT:
  RESTORCIONE DETAILS SHALL BE IN ACCORDANCE MITH THE LATEST EDITION OF ACT 315.
  REINFORCING STEEL SHALL COMPORA TO ASTM A 615, CRAVE 60, DEFORMED UNICESS OTHERWISE NOTED. WELDED WIRE
  REINFORCING STEEL SHALL COMPORA TO ASTM A 615, CRAVE 60, DEFORMED UNICESS OTHERWISE NOTED. WELDED WIRE ABRIC SHALL CONFORM TO ASTM A 185 WELDED WIRE FABRIC UNLESS OTHERWISE NOTED. SPLICES SHALL BE CLASS
- BY AND ALL HOOKS SHALL BE STANDARD LINO THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE
- Drawnins:
  Concrete Cast Against Earth: 3 in.
  Concrete Exposed to Earth or Weather:
  \$6 and Larger: 2 in.
  \$5 and Saller and Why: 1 ½ in.
  Concrete Hot Exposed to Earth or Weather or Not Cast Against the Ground:
- SLABS AND WALL: 1/4 IN. BEAMS AND COLUMNS: 1 1/4 IN. A CHAMFER OF X IN SHALL BE PROMDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301
- INSTALATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROO SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMPEDIMENT DEPTH OR AS SHOWN ON THE DRAWNINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. CURING COMPOUNDS SHALL CONFORM TO ASTM C-309.

- CURING COMPOUNDS SHALL CONFORM TO ASTM C-309,

  ADMITTURE SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301.

  DO NOT WELD OR TACKWELD REINFORCING STEEL.

  ALL DOWES, MACHORS BOLIS, EMBEDMENT STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.

  LICALE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACULTATE CONSTRUCTION AS ACCEPTABLE TO THE ENGINEER.
  PLACE REINFORCEMENT SHALL BE COLD BENT WHEN BENOMS IS REQUIRED.

  PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANE OF WEAKINGSS. WBRATE THE CONCRETE TO PULLY EMBED REINFORCING. DO NOT USE WEBRATOR TO TRANSPORT CONCRETE

  WEAKINGSS. WBRATE THE CONCRETE TO PULLY EMBED REINFORCING. DO NOT USE WEBRATOR TO TRANSPORT CONCRETE

  PREVIOLES. HROUGH CHUTES OR FORMWORK.
- THROUGH CHUTES OR FORMMORK.

  DO NOT PLACE CONCRETE IN PONDING WATER, ICE, OR ON FROZEN GROUND.

  FOR COLD MEATHER AND NOT WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI COORS AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTINUING CHLORDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.

  FIBER REINFORCED CONCRETE MIX, IF SPECIFIED, SHALL INCLUDE 1 1/4 LBS OF FIBER PER CUBIC YARD.





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1 05/09/13 REVISED PER COMMENTS 0 10/30/12 ISSUED FOR PERMIT REV DATE DESCRIPTION 4 OF MAX 0 2013 EMMANUEL PUULIN-EL IPLE: 454073 MY PERSON UNIF EMMANUEL POULIN

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING INDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER

SFL62 2

804 NW 15TH STREET FORT LAUDERDALE, FL 33311

SHEET TITLE:

ADDRESS:

SPECIFICATIONS

SHEET NUMBER:

13-1621

# 11 — ELECTRICAL 1.1.1 GDIERAL 1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, TRANSPORTATION, CONSTRUCTION TOOLS, ETC., FOR THE INSTRILLATION OF COMPLETE AND PROPERTY OPERATING SYSTEMS. 2. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWIS AND OPRINANCES OF ALL AUTHORITIES HAWING JURISDICTION AND WITH ALL ASSOCIATED UTILITY COMPANY REQULATIONS AND APPLICABLE REQUIREMENTS. INSTALLATION WILL ALSO COMPLY WITH THE LATEST EDMONS OF ALL CODES AND STANDARDS OF THE ENTITIES LISTED ON SHEET SP1, NOTE 2. THE MOST STRANGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE OF THE CONTRACTOR OF THE PROPERTY OF THE PROPE ecumizations. The contractor shall secure all necessary electrical permits and pay all required fees. Record drawnics: Mannan a record of all chances, substitutions between work as specified and installer record chances on a clean set of contract documents which shall be turned over to the construction manager upon completion of the project. CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT. ALL BROCHURES, DEPATION MANALES, CATALOSS, SHOP DRAWINGS, SPECIFICATIONS, ETC., SHALL BE TURNED OVER TO THE CARBIER AT THE COMPLETION OF THE PROJECT. GUARANTEE/MARRANTY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUND, ETC., FOR A PERSOD OF ONE YEAR, FURRISH WARRANTY SO THE DEFECTIVE MATERIAL AND/OR WORKMASSHIP WILL BE REPARED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE COMPLET FOR PERSOD OF WARRANTY, IF, AFTER THERMY (30) DUA'S THE CORRECTIONS ARE NOT COMPLETE. THE COMPLET RESERVES THE OPTION OF ARRANGING FOR THE NECESSARY REPAIRS AND BOXCOLARGING THE CONTRACTOR FOR THE WORK. THE CONTRACTOR SHALL CORGINATE WITH OTHER TRADES, AS NECESSARY. DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER OF THAT SERVICE AND WRITTEN PERMISSION OF THIS INSTALLATION'S CARBEE. CHANGES: NO AUDITIONAL COSTS FOR LABOR OR MATERIALS WILL BE ALLOWED FOR CHANGES OR MODIFICATIONS MADE UNLESS PROOR WRITTEN APPROVAL IS OBTAINED FROM THE ARCHITECT, ENGINEER OR OWNER IN THE FORM OF A CHANGE ORDER. DRIVINGS: ELECTRICAL DRAWINGS ARE DUAGRAMATIC IN NATURE AND ARE NOT TO BE SCALED. DISCREPANCES: DISCREPANCIES ON THESE PLAINS, SPECIFICATIONS, ETC., MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE BORNER. ANTERIOR OF THE EMPLEY. SURVEY AND CONDITIONS: VISIT THE JOB SITE PRIOR TO SUBMITTING BID, AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT THE WORK TO BE PERFORMED. NO OTHER ALLOWANCES WILL BE GIVEN FOR THE SITE DO-OPERATION: CO-OPERATE WITH OTHER CONTRACTORS AND SUBCONTRACTORS ON SITE. ARRANSE AND EXECUTE MORK IN SUCH A MAINER AS REQUIRED FOR THE SATISFACTORY AND EFFICIENT CONSTRUCTION OF THIS PROJECT BY ALL TRACES CONCERNED. TEMPORARY POWER ARRANGE AND PAY FOR THE CARRER'S TEMPORARY POWER DURING CONSTRUCTION. INSTALLATION SHALL COMPLY SPECIFICALLY WITH ENGINEERING STANDARDS MANUAL. ANY DEVATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROCECT MANUALE PROVE TO COMMENCEMENT OF WORK. PROCUREMENT VERIFICATION: PROVIDE AN ITEMIZED CERTIFICATION TO THE PROJECT MANUAGER THAT EQUIPMENT AND RELATED HAPDWARE HAVE BEEN ORDERED WITHIN 24 HOURS OF MOTICE TO PROCEED. THE SUBCONTRACTOR SHALL MOTIFY AND GRAININ RECESSING AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCIATION OF THE AC POWER DISTRIBUTION PANELS.

11.2 INSPECTIONS

1. CONSTALL DURING AND UPON COMPLETION OF WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

2. INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING

inspection agency: Approved by the local and/or state agencies having jurisdiction at the project site. Certificates: Submit all required inspection certificates to the carrier and utility.

CHIEFLATICS: SUBJECT TO THE RESIDENT WAS AND HARDWARE SHALL BE ZINC COATED OR OF EQUINALENT CORROSON RESISTANCE BY TREATMENT OR INHERENT PROPERTY AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP CALVANIZED.

TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED ROOS, ETC., AS INDICATED OR

REQUIRED.

INSTALLATION: RIGIDLY SUPPORT AND SECURE ALL MATERIAL, RACEMBY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENERS SUITABLE FOR THE USE ON MATERIALS AND LOADS ENCOUNTERED. PROVIDE ALL NECESSARY HARBOMARE. PROVIDE CONDUIT SUPPORTS AT MAXIMUM 5 FT. O.C.

STRUCTURAL MEDIBERS: DO NOT CUT, ORALL OR WELD ART STRUCTURAL MEDIBER EXCEPT AS SPECIFICALLY APPROVED.

MISCELLANEOUS SUPPORTS: PROMOE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT ONE—HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

ONE-PICLE SIMPS SMALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

ENGUSIRES / MICHAEN STATE USED STATE OF CONDUITS LARGER THAN 3/4 INCH.

EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE CALVANIZED OR EPOXY-COATED SHEET STEE, SMALL MEET OR EXCEED UL 50, AND BE RATED NEWA 1 (OR BETTER) INDOORS OR NEWA 3R (OR BETTER) OUTDOORS.

WINERWIN'S SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER AND RATED NEWA 1 (OR BETTER) INDOORS, OR NEWA 3R (OR BETTER) OUTDOORS.

INDOORS, OR NEWA 3R (OR BETTER) OUTDOORS.

JUNCTION BOXES: JUNCTION BOXES SHALL BE A MINIMUM SIZE OF 4 INCHES SQUARE BY 1-1/4 INCHES DEEP.

JUNCTION BOXES: JUNCTION BOXES SHALL BE A MINIMUM SIZE OF 4 INCHES SQUARE BY 1-1/4 INCHES OEEP.

11. BHOLES, SEEPER AND OPPININGS
1. GENERAL: PROVINGE ALL HOLES, SLEEVES AND OPPININGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL DAMAGED SURFACES TO MATCH SURROUNDING SURFACES.

2. CONDUIT PENETRATIONS: SIZE CORE-DRILLED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH IS LEFT AROUND THE CONDUIT, PIPE, ETC. WHEN OPPINIOS ARE CUT IN LIEU OF CORE-TROILED, PROVING SLEEVE IN ROUGH OPPINIOS SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF HOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND SLEEVE TO MATCH SIERDRIJHMUMS SLEEVES OF THE STATE OF THE CONDUIT, PIPE, ETC. PATCH AROUND SLEEVE TO MATCH

SURROUNDING SURFACE
PROVIDE APPROPRIATE WEATHERPROOFING MATERIALS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL
WATER WITHJOHN. PROVIDE FIRE-PROOF MATERIALS FOR PENETRATIONS REQUIRING A FIRE RATED SEAL. REFER TO
CUITING AND PATCHING NOTES UNDER SECTION 1 — GENERAL.

IF ANY ROOFING WORK IS TO BE PERFORMED, THE CONTRACTOR SHALL USE THE BUILDING OWNER'S APPROVED
ROOFING CONTRACTOR TO PREVENT VIDION ON PUSTING ROOFING WARRANTIES. ANY DAMAGE TO THE EDISTING
ROOFING MEMBRANE SHALL BE REPAIRED IMMEDIATELY TO AVOID MOSTURE WITHJUGHT FOR ACCOUNTING THE BUILDING SHELL
GENERAL PROVIDE ALL CUITING, DRELING, ITTING AND PATCHING RECESSING FOR MOOKEN, THIS
INCLUDES REMOVAL AND REPLACEMENT OF DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF

THE CONTRACT DOCUMENTS.
REPAIRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS,

USING SKILLED MECHANICS OF THE TRADES INVOLVED,
DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF NO BE, NC ON MOMES CAME SHALL BE PERMITTED.

EACH PIND OF EVERTY POWER, REQUIDINGS AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR—CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAP WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSMA AND MATCH EXISTING INSTALLATION REQUIREMENTS. ALL TE WARPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL. REBLOW SHAPE DOES AND EDGE.

ALL CONDUIT SIZES SPECIFIED IN THIS DOCUMENT WERE DONE SO TAKING INTO ACCOUNT THE USE OF COPPER CONDUCTORS.

11.7. ELECTRICAL SERVICE

1. OPIERAL COMPLY WITH AND CO-ORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.

2. SHORT ORGUIT RATINGS: PROWIDE EQUIREMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE RAULT CURRENT.

3. CONTRACTOR TO VERRY UTILITY CO. FAULT CURRENT AND ENSURE THAT ALL EQUIPMENT MEETS FAULT CURRENT (AT A MINIMUM ALL EQUIPMENT TO BE 10,000 AC).

4. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE ELECTRIC UTILITY RELATIVE TO A TIMELY MISTALLATION OF THE NEW SERVICE AND PAYING ALL ASSOCIATED FEES.

5. DESTIFICATION: DESTIFY SERVICE DISCONNECTION HEADS WITH PERSUANDIT NAMEPLATE.

6. THE LOCATION SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTROL SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTROL SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTROL SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTROL OR SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTROL SHOWN FOR A UTILITY POLE OR CONNECTION OF NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTROL OR SHOWN FOR A UTILITY POLE OR CONNECTION WITH THE ELECTRIC UTILITY.

7. LOCATION AND ARRANGEMENTS: DRAWNINGS INDICATE DARRAMANICALLY THE DESIRED LOCATION OF EQUIPMENT, FIXTURES, OUTLIES, ECC., AND ARE NOT TO BE SCALE. PROPER JUDGMENT MUST BE EXERCISED IN THE EXECUTION TO ENSURE THE BEST POSSBEE INSTALLATION.

8. PANEL AND DISTRIBUTION BOARD DEPTIFICATION. SWITCHBOARDS, PANELBOARDS, TRANSFORMERS AND DISTRIBUTION SECTIONS SHALL BE DEPTIFIED WITH ENGRAVED, WHITE ON BLACK, LAMINATED, RIGD PHENOLIC NAMEPLATES WITH 1/4 INCH CHARACTERS, SECURELY AFFIXED TO ACCOUNT MEMBER.

ONLY. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION WITH THE TELEPHONE UTILITY

Concelled Modor Locations.

Louid—Tight Fledble Metallic Comduit (Liquid—Tight Flex) Shall be used indoors and outdoors, where meranion occurs or fledblily is needed.

Plug and Cap each end of spare and empty conduits and provide this separate pull strings — 200 lb. Test polytemples cord.

All comduit bonds shall be minimum of 24 inch rudus.

All metallic raceimys shall be grounded per Nec.

The contractor shall field verify the best and least disruptive routing of conduits, cable trays and ducts. Conduit routing is shown as a guide only, actual conduit purcement is to be done in a professional manner.

PROFESSIONAL MANNER.

11.11 BEIDW GRADE

1. THIS SITE INCLUDES NEW CRITICAL UNDERGROUND ELECTRIC, TELEPHONE AND OTHER SERVICES IN THE VICINITY OF OTHER UNDERGROUND SERVICE DISCUSSION OF THE CONTRACTION STALL TAKE ALL NECESSARY PRECUITIONS TO AVOID SERVICE DISCUSSION OF INESE FACILITIES. THE CONTRACTION STALL ALL NECESSARY PRECUITIONS TO AVOID SERVICE DISCUSSION OF INSECTION OF SHALL AS CONTRACT ELECTRIC AND TELEPHONE, AND ALL OTHER APPROVICE AREDICES PROOR TO EXCAVATION AT THIS SITE.

PROOR TO EXCAVATION, A UTILITY MARKS OUT SHALL BE DONE TO LOCATE EXISTING UNDERGROUNG UTILITIES. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED OUT PROOR TO ANY EXCAVATION WORK BEING PERFORMED. PHOTOS SHALL BE TAKEN OF ALL UNDERGROUND WORK AND GROWN TO TO THE CARRIER DURING THE SITE'S HANDOFF.

3. ALL TRENCHING AND EXCAVATION WITHIN EXISTING COMPOUNDS MUST BE PERFORMED BY HAND IN ACCORDANCE WITH THE OWNER'S SPECIFICATIONS. ANY OTHER METHODS OF DIGGNO MUST FIRST BE APPROVED BY THE CONSTRUCTION MANAGER.

MANAGER.
ALL LOW VOLTAGE CONDUIT (600V OR LESS) SHALL HAVE A MINIMUM BURAL DEPTH OF 24". ALL HIGH VOLTAGE CONDUIT (600V OR MORE) SHALL HAVE A MINIMUM BURAL DEPTH OF 36". UNDERGROUND CONDUIT SHALL BE ENCASED IN REDIFFORCE DONCRETE IN AREAS OF VEHICLE TRAFFIC. CONCRETE ENCASEMENT SHALL BE 3" MINIMUM ALL AROUND AND BETWEEN CONDUITS.
ALL BURBED CONDUIT SHALL BE IDENTIFIED WITH ELECTRICAL MARKER TAPE. TAPE SHALL BE PLACED 12" ABOVE CONDUIT FOR EASY IDENTIFICATION.

CONDUIT FOR EAST IDENTIFICATION.

11.12 EQUIPMENT
1. THE MAN ORCUIT BREAKER SHALL BE RATED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING EQUIPMENT A.I.C.
2. ALL EQUIPMENT SHALL BE BRACED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING FROM UTILITY CO.
3. THE CONTRACTOR SHALL PROME AN ITEMAZED CERTIFICATION TO THE CONTRACTOR, WHERE GROERED WITHIN 24 HIRS OF THE MONICE TO PROCEED.
4. ALL ELECTROAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENCRAVED PLASTIC LABELS, ALL EQUIPMENT SHALL BE LABELED WITH THE VOLTACE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPRICATY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND GRICUIT ID'S).

METLI RECEPTIVALE, SMITCH AND DEVICE BOXES SHALL BE CALVANDED, EPOXY-CONTED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A NON NEBAL OS 1; AND BE RATED NEBAL 1 (OR BETTER) INDOORS OR

16. NONMETALLIC RECEPTIVALE GIVE ONE OFFICE SHALL MEET OR EXCEED NEBAL OS 2, AND BE RATED NEBAL 1 (OR BETTER) INDOORS OR WEATHER—PROTECTED (MY OR BETTER) OUTDOORS.

5. NONMETALLIC RECEPTIVALE SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEBAL OS 2, AND BE RATED NEBAL 1 (OR BETTER) INDOORS OR WEATHER—PROTECTED (MY OR BETTER) OUTDOORS.

11.13 TRANSPIR VOLTAGE SINGE SUPPRESSION (TVSS)

1. TVSS DEVICES FOR AC POWER SHALL BE INSTALLED IN ALL EXISTING FACILITIES THAT ARE MISSING TVSS DEVICES OR

13 - RF AND TOWER APPURIENANCE INSTALLATION RELATED NOTES

13.1 COASIN. CARLE REQUIREMENTS:

1. GENERAL: PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR RECEIVING, INSTALLING, TESTING, AND ADJUSTING ANTIDINA CARLES FROM THE ANTENIAN TO THE CONNECTIONS AT THE BASE TRANSMISSION SYSTEM (BTS).

THIS SHALL INCLUDE ALL EQUIPMENT SHOWN OR REQUIRED FOR A COMPLETE OPERATING SYSTEM. ANTIDINA, ANTIDINA CARLES, CONNECTIORS, AND FITTING SHALL BE THIRD PARTY FURNISHED COMPONENTS AS SHOWN ON THE BILL OF

COAGAL CABLE LENGTHS SHALL BE FIELD MEASURED. INSTALLER SHALL NOTIFY CARRIER PRIOR TO PURCHASE OF CABLE OF THE OVERHALL LENGTH REQUIRED.

COAGAL CABLE TYPE AND DIAMETER SHALL BE VERRIED WITH CARRIER.

COAGAL CABLE SHALL BE LENGELD IN ACCORDANCE WITH CARRIER ELECTRICAL MATERIALS AND METHODS SPECIFICATIONS. ALL WAIN CABLES WILL BE COLOR CODED AT FOUR LOCATIONS: A) AT ANTERNAR PROR TO JUMPER, B) AT THE BOTTON OF THE TOMER, C) DETEROR PART OF THE WAVE GLUDE EMIRY PORT (AT THE SHELTER/CABINET WALL), D) INTERIOR OF THE SHELTER/CABINET.

PROVIDE AT LEAST 6 OF SLACK IN THE MAIN COAGAL CABLES AT THE ANTERNAR END TO PROVIDE FOR FUTURE CONNECTOR SIZE ALL SHE AND THE MAIN COAGAL CABLES AT THE ANTERNAR END TO PROVIDE FOR FUTURE CONNECTORS TO COAGAL CABLE AT BOTH ENDS (ANTERNA END AND BTS LOCATION).

UPON SUCCESSFUL COMPRETOR TO THE SWEEP TEST, THE CONTRACTOR SHALL PROVIDE A WEATHERINGT SESSIOL ON THE COAC CABLES.

THE MINIMUM BENOWN RADIUS FOR ALL ANTENNA CABLES SHALL BE AS SHOWN BELOW OR PER THE

Transpent voltages. A T1 transport tyss device shall be installed at all sites between the Niu and the bts.

THE ALP POWER COMMON MODE SURGE SUPPRESSOR SHALL BE CONNECTED TO THE COMMERCIAL POWER INPUT SIDE OF THE MANUAL TRANSFER SMITCH.

IN MARKETS WITH LORITHING ZONE > OR = TO 4, RF TYSS DEVICE SHALL BE INSTALLED AT THE ENTRANCE TO THE SHELTER OR AS CLOSE AS POSSIBLE TO THE BTS CABINET FOR OUTDOOR SITES, TO PROTECT AGAINST LIGHTNING AND

REPRESENTATIVE.

AVE UNSUITABLE TVSS DEVICES

CABLE HANGERS SHALL BE INSTALLED AT A MAXIMUM 4' SPACING. INSTALLATION

MANUFACTURER, WHICHEVER IS MORE CONSERVATION

IN AIR OR CABLE TRA IN CONDUIT MAICHING APPEARANCE OF EXISTING CONSIDERATION.

1. LIC CONDUCTIONS

1. USE 98% CONDUCTINITY COPPER WITH TYPE XHW-2 INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WISE LARGER THAN NO. 8 AWG. USE PRESSURE—TYPE INSULATED TIMET—NO CONDUCTORS FOR NO. 10 MICE AND LARGER THAN NO. 8 AWG. MIS SAULER, SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER, ALLIMINUM CONDUCTORS SHALL NOT BE USED.

4. CABLES SHALL BE INSTALLED WITH THE MINIMUM NUMBER OF BENDS. CABLE SHALL NOT BE LEFT UNTERMINATED IN THE FIELD.

5. GROUNDING

A ALL MAIN CABLES WILL BE GROUNDED AT: A) THE ANTENNA, B) MIDDLE OF THE CABLE RUN IF OVER 200°, C) PROR TO ENTERING EQUIPMENT SHELTER/CABINET (WITHIN 1' OF ENTRY). ALL MAIN CABLES WILL BE GROUNDED AT: A) THE ANTENNA, 8) MIDDLE OF THE CABLE RUN IF OVER 2007; C) PRIOR TO ENTERING EQUIPMENT SIGLITER/CABINET (MITHIN 1" OF ENTERY). GROUND STRINES, THE CONNECTIONS SHALL BE IMAGE WEATHER TIGHT USING WEATHERPROOF INTS AS DISCHIFFED. GROUND PROTAILS SHALL BE BROUGHT OUT IN THE DOWNMARD DISCEPTION FROM THE CONNECTION TO THE ANTENNA CABLE WITHOUT ANY SHAPP BENDS (MINIMUM RADIUS 10") AND CONNECTION SHALL BE MADE TO GROUNDING SYSTEM. 13.2 ANTENNA REQUIREMENTS:

1. AZMUTHS ARE ORIENTED CLOCKWISE FROM TRUE MORTH.

2. CONTRACTOR SHALL VERBY ANTENNA TYPE, AZMUTHS, AND DOWNTILTS WITH THE CARRIER PRIOR TO CONSTRUCTION.

3. THE MINIMUM DISH RAD CENTER HEIGHT ABOVE THE ROOF SHALL BE 6"-8". 13. TOWER CLIMBERS MUST HAVE COMPLETED A NATE CERTIFIED CLIMBING TRAINING COURSE PER CONTRACT SPECIFICATIONS

1. TOWER CLIMBERS MUST HAVE COMPLETED A NATE CERTIFIED CLIMBING TRAINING COURSE PER CONTRACT SPECIFICATIONS TOWER CLUBBERS MULT HAVE COMPLETED A NATE CERTIFIED CLUBBING TRAINING COURSE PER CONTRACT SPECIFICATIONS PRORD TO MORK ON THIS STRUCTURE.

CONTRACTOR MUST COMPLY WHY THE STANDARD "RF POWER AND LOCKOUT/TACOUT" PROCEDURES BEFORE ALLOWING CLUBBERS ON THIS STRUCTURE.

TOWER CLUBBERS MULL NOT BE ALLOWED TO ACCESS TOWER IN ADVERSE WEATHER CONDITIONS, INCLUDING HIGH WINDS, LIGHTNING, RAIN, SNOW ICE OR DURING NIGHT TIME.

CONTRACTOR OR CLUBBERS SHALL IMMEDIATELY REPORT ANY CLUBBING EQUIPMENT OR CONDITIONS JUDGED IMADEQUATE OR IMAGES. 5. EMERGENCY NUMBERS SHALL BE POSTED ON SITE AND ADVERTIZED TO CLINBERS BEFORE THE BEGINNING OF THE 6. SAFETY MEETINGS SHALL TAKE PLACE EVERY MORNING BEFORE THE WORK DAY BEGINS. - SITE SPECIFIC NOTES 20.1 GENERAL

1. CONSTRUCTION INCLUDES: INCH CHAPACTERS, SECURELY AFFIXED TO FACE OF CABINET.

FILEPHONE SERVICE

GENERAL: INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY'S RIULES AND REGULATIONS.
THE CONTRACTOR IS RESPONSIBLE FOR MAYING ARRANGEMENTS WITH THE TELEPHONE UTILITY RELATIVE TO A TIMELY
INSTALLATION OF THE INCOMING TELEPHONE SERVICES AND PAYING ALL ASSOCIATED FEES.

METALLIC CONDUTT OR TUBBNE FOR TIL LIVES SHALL BE BONDED TO GROWN ON BOTH EINDS.

THE LOCATION SHOWN FOR A TELEPHONE POLE OR CONNECTION TO THE TELEO DEMARC IS FOR CONCEPTUAL USE

MIN THE CONTRACTOR SHOWN FOR A TELEPHONE POLE OR CONNECTION TO THE TELEO DEMARC IS FOR CONCEPTUAL USE Installation of communication equipment
 Antennas and mount installation on structure
the professionals involved on this project are as follows: AW SOLUTIONS, INC 300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 PHONE 407.260.0231 11.9 CHECKOUT, TESTING AND ADUSTING
 CORRECTION/REPLACEMENT: AFTER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT MY DEPICIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED CENTER. CAPACITY.

POWER CONDUCTORS: CONTRACTOR SHALL CONDUCT A CONTINUITY AND INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DISCONNECT SMITCH AND LADA CENTER.

WHEN SITE POWER IS DERIVED FROM A 3-PHASE SOURCE, LOAD READINGS WILL BE TAKEN AND RECORDED TO MAINTAIN A BALANCED LOAD AT THE PRIMARY SOURCE. RECORDS SHALL BE RETURNED TO THE OWNER'S REPRESENTATIVE.

11.10 RACEWAY SYSTEMS / CONDUIT

1. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT. UNDERGROUND PVC CONDUIT SHALL TRANSITION TO

ROD GALVANIZED STEEL CONDUIT OR SCHEDULE 80 PVC CONDUIT BEFORE RISING ABOVE GRADE OR CONCRETE SLAB.

ELPOSED CONDUIT SHALL BE RIGID CALVANIZED STEEL (RSS) CONDUIT OR SCHEDULE 80 PVC CONDUIT.

2. GRS CONDUITS, WHEN SPECIFIED, SHALL MEET UI.—6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR

USS WITH THEOLOGY ROD CONDUIT.

3. ELECTRICAL METALLIC TUBNIC (DIT) OR RIGID, NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40, OR RIGID PVC

SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

4. ELECTRICAL RETALLIC TUBNIC (CAIT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40) SHALL BE USED FOR

CONCENTED INDOOR LOCATIONS.

LEGEND AND ABBREVATIONS
AND AUTHORITY HAVING JURISDICTION
AND AMERICAN WIRE GAUGE
BOW BARE COPPER WIRE
BIS BASE TRANSISSION SYSTEM
CODE COAK ISOLATED GROUND BAR, EXTERNAL DIAMETER ELECTRICAL METALLIC TUBING COLERATOR
GLOBAL POSITIONING SYSTEM
MASTER ISOLATED GROUND BAR
MATIONAL ELECTRIC CODE, LATEST ADOPTED EDITION
POWER PROTECTION CABINET
POLY WIN'L CHLORIDE RIGID GALVANIZED STEEL

INTERNATIONAL & 300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 FL COA#: 26983 DRAWN BY: CC CHECKED BY: JD 1 05/09/13 REVISED PER COMMENTS 0 10/30/12 ISSUED FOR PERMIT REV DATE DESCRIPTION MAY 1 0 2013 EMMANUEL POULIN FLI P.E. /84073 IT IS A VOLATION OF LAWTOR TWO PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A DEENSED PROFESSIONAL ENGINEER TO ALTE THIS DOCUMENT. UNLESS EXPLICITLY AGREED TO BY AN SOLUTIONS IN RITING, AW SOLUTIONS, INC. DISCLAIMS ALL EIABLITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN. SFL62 2 SITE#: ADDRESS: 804 NW 15TH STREET FORT LAUDERDALE, FL 33311 SHEET TITLE:

CROWN

SCRIPTION STREET STREET **SPECIFICATIONS** SHEET NUMBER:

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