

PERMIT NO. CC13-04

**District 3** 

COMMUNICATIONS SERVICE FACILITIES Applicant Name and Job Number Crown Castle SFL 61\_1 Job Address and Location 717 NW 15 Avenue 715 NW 15 AUR 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) X 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 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 \_, which is on file with the City Engineer dated 04/04/2013 A landscaping maintenance commitment letter from the adjacent property owner and relevant home owner П association is attached to this application. X 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-X 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 Sworn to and subscribed before me this My Commission Expires \_\_\_\_\_ Notary Public, State of Florida (Seal) SHANE HAFNER MY COMMISSION # BE831765 (Do not write below this line) EXPIRES: September 03, 2016 , Subject to the following conditions:

1) A detailed visual mitigation plan is required

Conceptual approval date

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

by

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

# REVIEW CHECKLIST FOR CABINETS IN RIGHTS-OF-WAY

P	ermit	No.	CC13 -	04

Application Package complete – 3 sets (Jegon Package)	K	<b>Application</b>	Package	complete	- 3 sets	J,	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

X	CC 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)	4.18	sbore rom
X	Sum of H + W + L not greater than 124" and H not greater than 5'-8"	75-75-75	10001000 1 2 1 1 1 1 1 1 
X	Cabinet not in front yard	yes X	
X	Proposed landscaping is in accordance with plan on file with City		
x	If landscaping is to be maintained by Property Owner, Agreement has been provided	Crown Castle	2
X	Landscaping plan has been checked by Dave Genarro	777/	<b> </b>
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)	1/15	
X	ADA requirements met	N/A	
X	Roadside recovery setback met (per Florida Green Book)	OL	
X	Cabinet/landscaping is at least one foot from sidewalk	NA S	
X	Cabinet would not conflict with future sidewalk	- O.	
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.		ļ
	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		1
	Landscaping is per permit plans and effectively screens cabinet		1
	Cabinet would not conflict with future sidewalk		]
	Dimensions for cabinet location measured		1
	Not more than three communication cabinets per block (unless waiver approved)		
	Electrical Permit – Final inspection passed		]



Crown Castle

8555 NW 64<sup>th</sup> Street

Miami, Florida 33166-2628

MelissaP.Anderson@crowncastle.com

Office 786-899-5911

Mobile S61-310-9261

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:

CC:

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

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.





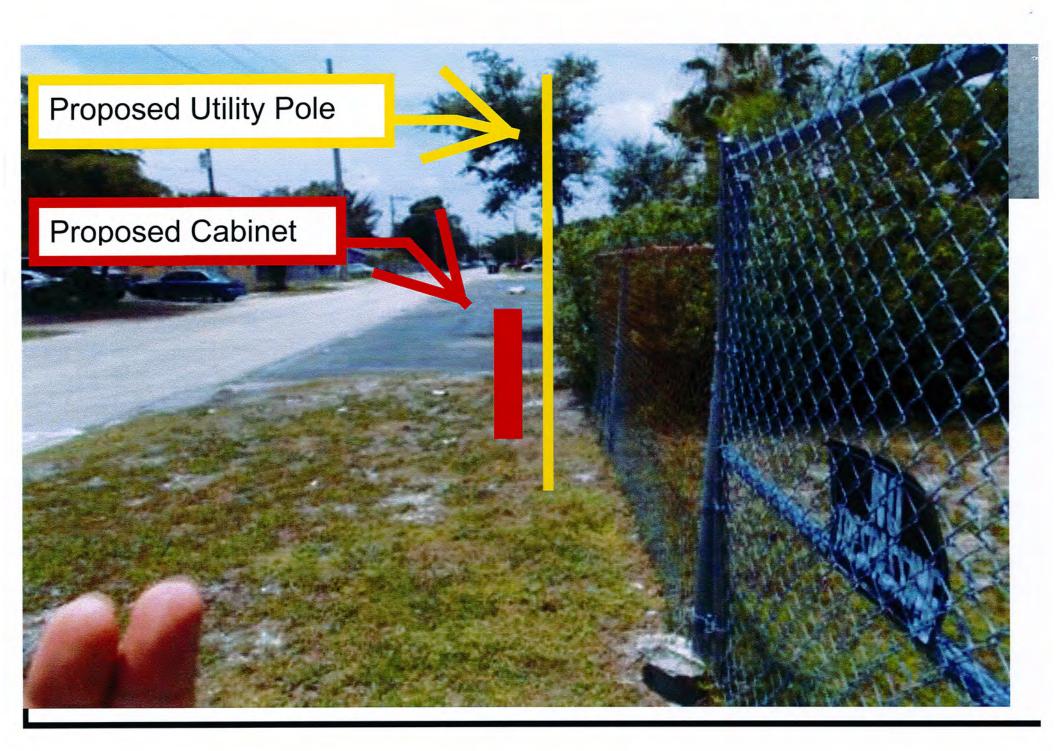
13-1621 Page 7 of 33







13-1621 Page 10 of 33



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

15th Avenue Church of God 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: 717 NW 15<sup>th</sup> Avenue 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

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Armando Hernandez

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

Dear Anthony & Nicole Whitehead,

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Site Development Manager

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

Dear Essie Barr,

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Sincerely,

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Site Development Manager

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

Dear Goran & Teresa Dragoslavic,

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Site Development Manager

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Michel Investment Services,

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Sincerely,

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Site Development Manager

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Dear Roan Smith,

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Site Development Manager

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Sincerely,

Armando Hernandez

Site Development Manager

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

Dear Samala Ivana Lundy,

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Sincerely,

Armando Hernandez

Site Development Manager

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

Durrs Community Association, Inc.,

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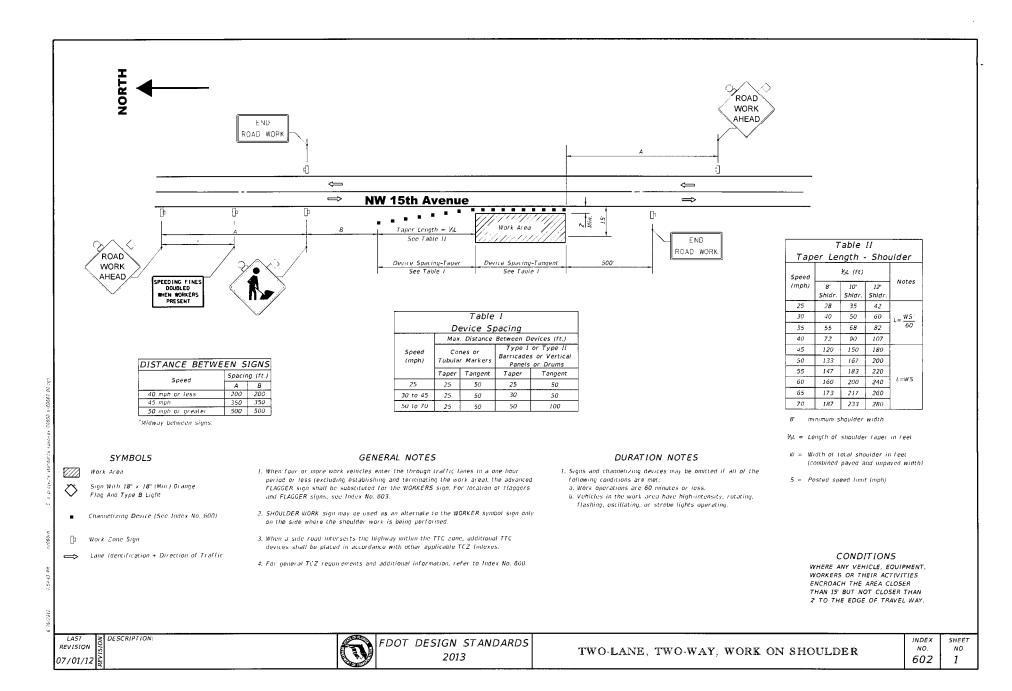
Sincerely,

Armando Hernandez

Site Development Manager

# TEMPORARY MODIFICATION OF TRAFFIC (MOT) ROUTING FORM

DATE: 5/21/13	
APPLICANT/ADDRESS/PHONE:	PERMIT NO.
Crown Castle NG East, Inc. 8555 NW 64th Street	(PROVIDED BY CITY AT TIME OF PERMIT APPLICATION)
Miami, Fl. 33166	
813-447-0333	PROJECT NAME/ADDRESS. CEL C4.4
	PROJECT NAME/ADDRESS: SFL 61_1
"PFRMIT").	ed and submitted as an attachment to the above-referenced permit (hereinafte
<ul> <li>only after issuance of the PERMIT, sub</li> <li>This form is for MOT's within rights-of-vrights-of-way under Broward County completed with the required signatures be attached</li> </ul>	rm does not constitute any approvals by the City. The MOT may be implemented bject to satisfaction of all prerequisite conditions. way under City of Fort Lauderdale's jurisdiction. If the MOT or detour routes affect jurisdiction, the County's form (available on the City website) should also be and attached. If the detours affect FDOT right-of-way, a permit from FDOT must be a conditional control of the city website.
<ul> <li>If work is taking place in County or applicant (hereinafter APPLICANT) is City's Public Information Office.</li> </ul>	FDOT R/W, an MOT permit is not required from the City. However, PERMI asked to provide two weeks advance notice of any closures or detours to the
Specific dates and times requested for MO	<u>OT implementation</u> :
Begin	End
the construction, deliveries, staging areas are not permitted in the right-of-way). P work	and address, names of affected streets, why MOT is necessary, nature of s, if cranes will be used, etc. (staging and storage of materials/equipment lease note if additional sheets have been attached for the description of
717 NW 15th Avenue approximately 2	221' North of NW 7th Street . Work on shoulder. net and new 45' wood utility pole. Attach Crown Castle antenna
Place new telecommunications cabli to new 45' wood utility pole.	
are necessary, if flagmen will be provided any other special considerations related the description of MOT.	cted on each street, if metered parking spaces will be displaced, if detour d, if MOT will be full-time (or times of day the MOT is to be in effect) and to this request. Please note if additional sheets have been attached for the work hours 8am - 4pm.
1501 492.54.	
Attach: MOT plan prepared by a cappropriate for the complex	certified worksite traffic control technician or traffic control supervisor (a ity of the job), with a copy of current certification.
there is a conflict with a higher public or	IT is found to adversely affect public safety and/or public convenience of urpose, the APPLICANT may be required to modify the MOT plan or the or permanently revoked at any time with reasonable notice from the City.
Control Devices for Streets and Highway	th provisions of the latest edition of <u>Part IV of the Manual of Uniform Traffors and FDOT Design Standards</u> . Compliance with the requirements of the APPLICANT.
Idennico Herander	Armando Hernandez / Site Development Manager
(APPLICANT)	(Print Name/Title)
As a consideration for the permission graindemnify and hold harmless the City of the MOT plan approved under the PERM	anted herein, Armando Hernandez (APPLICANT) agrees fort Lauderdale for any damages, claims or injuries that may result from MIT.
Crown Costle NG East Inc	By Admark Herander
(Name of Company)	By: Ormand Herrandes (Company Officer, President, or Authorized Agent)
(a 0. 00pa)	





CLIENT :

CLIENT SITE ID#:

**SFL61\_1** 

ADDRESS:

FORT LAUDERDALE, FLORIDA 33311

**CROWN CASTLE** 

SITE TYPE:

**NEW WOOD POLE** 

#### PROPERTY INFORMATION

SITE COORDINATES:

PROPERTY OWNER: ADDRESS:

26.13167

MIAMI, FL 33166

JURISDICTION CITY OF FORT LAUDERDALE

-80.16215\*

ENGINEERING FIRM: CROWN CASTLE 8555 NW 64TH STREET

CONTACT: PHONE:

PROJECT TEAM

PROJECT MANAGEMENT FIRM: ADDRESS:

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

CROWN CASTLE 8555 NW 64TH STREET

MIAMI, FL 33166

#### DESIGN CRITERIA;

FLORIDA COA#:

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

DRAWING **INDEX** 

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

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ROJECT	MANAGER:	
ARRIER:		
TILITY:		

DATE:

INTERNATIONAL 🛨



LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 FL COA#:

1	05/09/13	REVISED PER COMMENTS ISSUED FOR PERMIT
0	10/31/12	ISSUED FOR PERMIT
EV	DATE	DESCRIPTION
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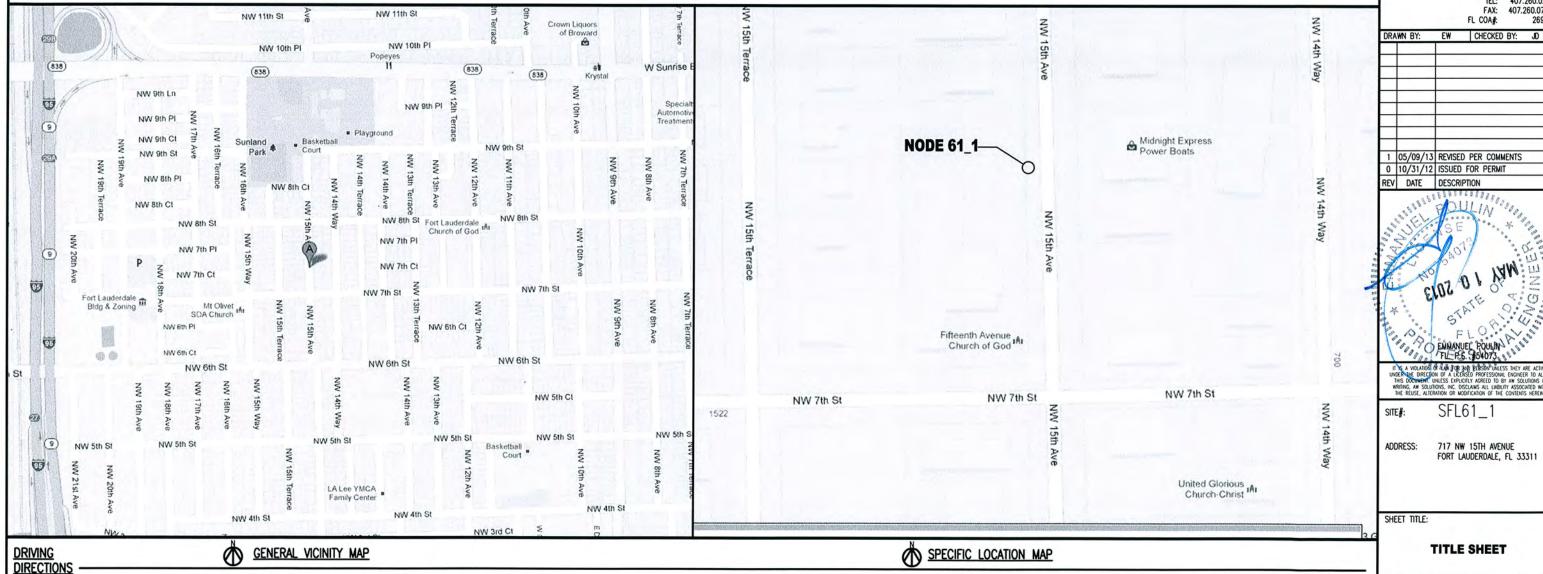
WRITING, AW SOLUTIONS, INC. DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN. SFL61\_1

717 NW 15TH AVENUE FORT LAUDERDALE, FL 33311

**TITLE SHEET** 

SHEET NUMBER:

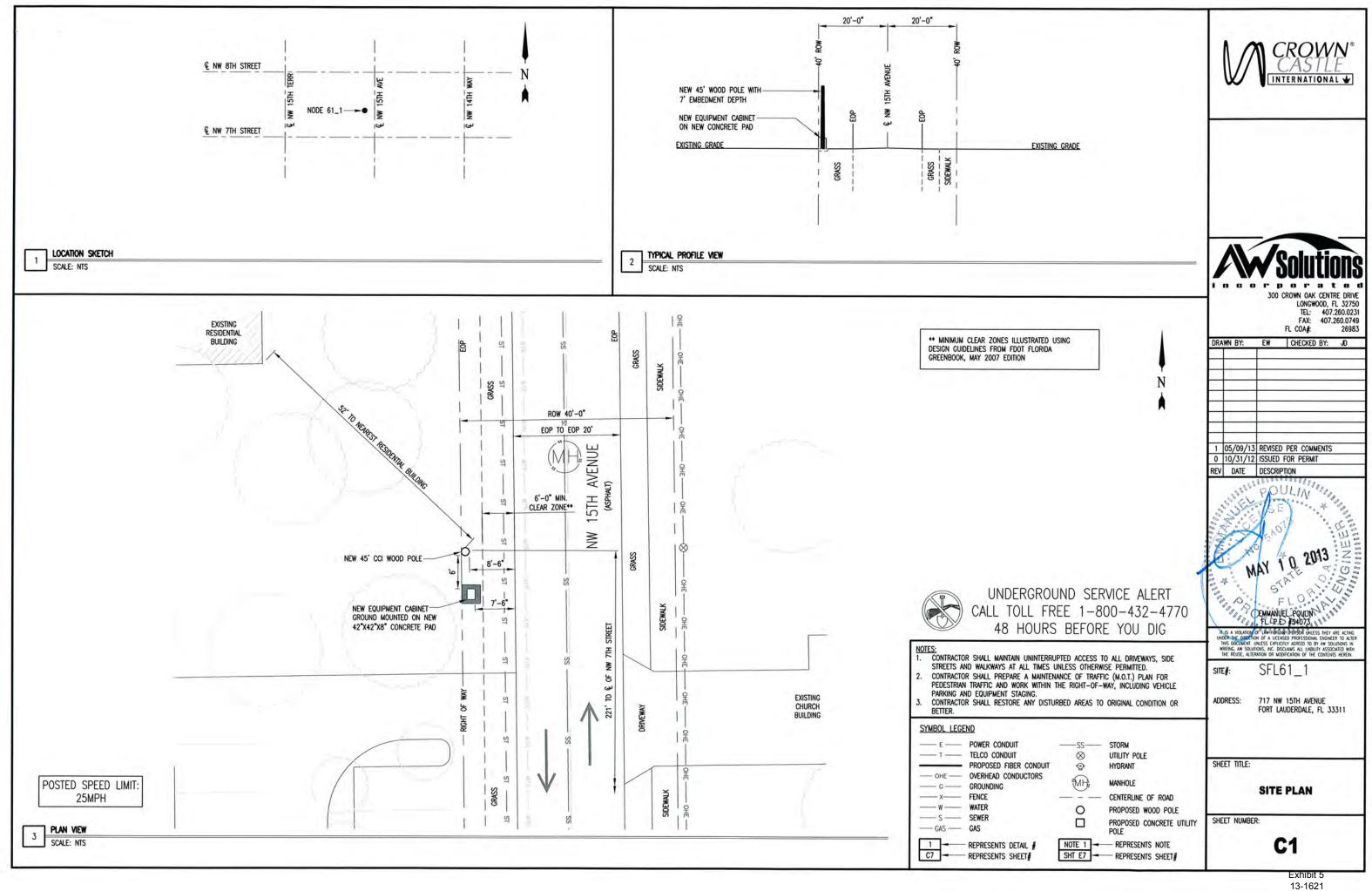
T1



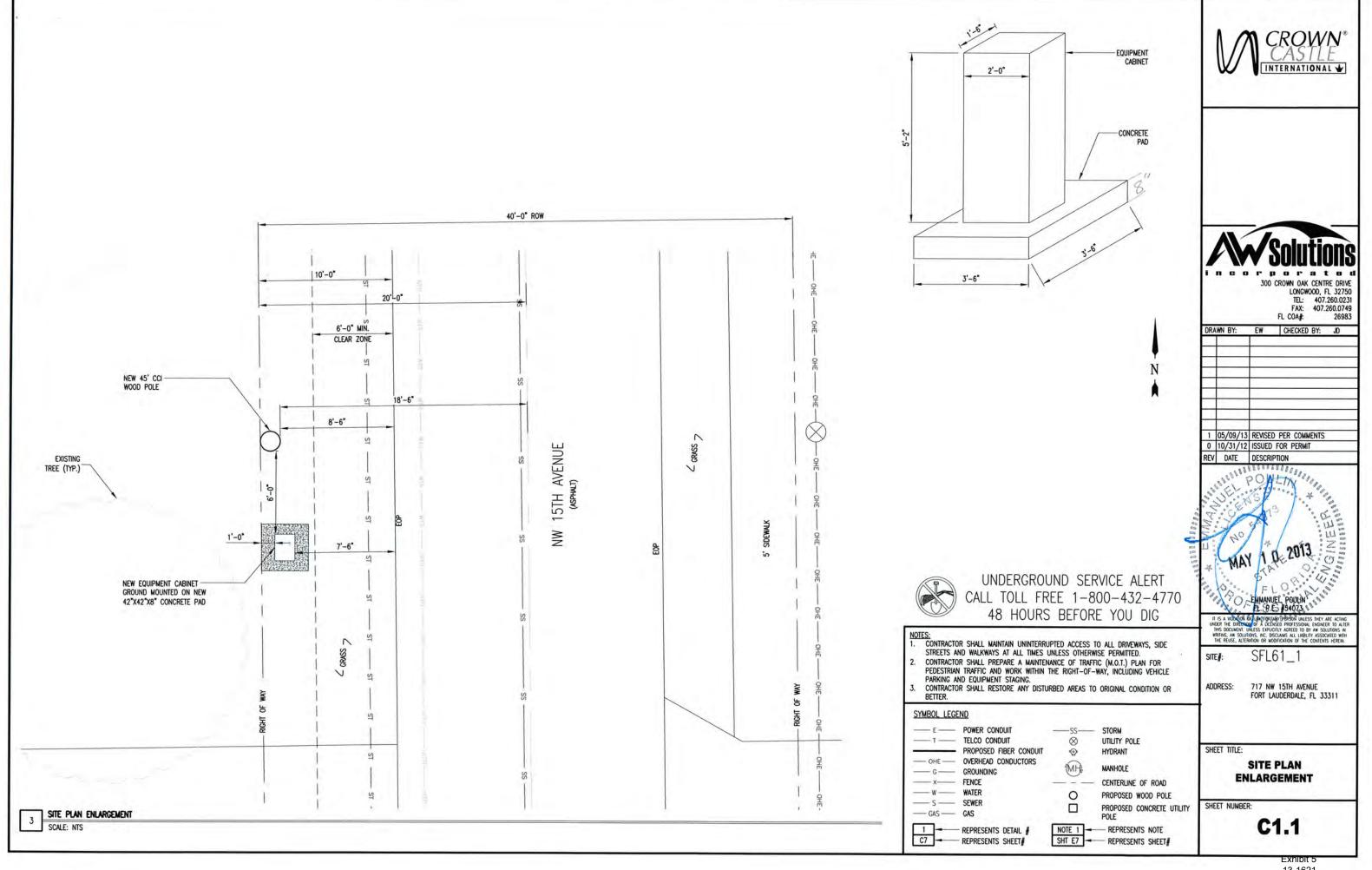
FROM THE CROWN CASTLE OFFICE IN MIAMI, HEAD WEST ON NW 64TH ST TOWARD NW 87TH AVENUE. TURN RIGHT ONTO NW 87TH AVENUE. TURN RIGHT ONTO NW 74TH STREET. TURN LEFT TO MERGE ONTO FL-826 NORTH. TAKE THE EXIT TOWARD FL-826 E/BEACHES. MERGE ONTO FL-826 EAST. TURN LEFT ONTO NW 2ND AVE (SIGNS FOR INTERSTATE 95 N). TAKE THE RAMP OF THE LEFT ONTO I-95 NORTH. TAKE EXIT 29A TO MERGE ONTO FL-838 E/W SUNRISE BLVD. TURN RIGHT ONTO NW 16TH AVENUE. TURN LEFT ONTO NW 8TH STREET. TAKE THE 3RD RIGHT ONTO NW 15TH AVENUE. DESTINATION WILL BE ON THE RIGHT.



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

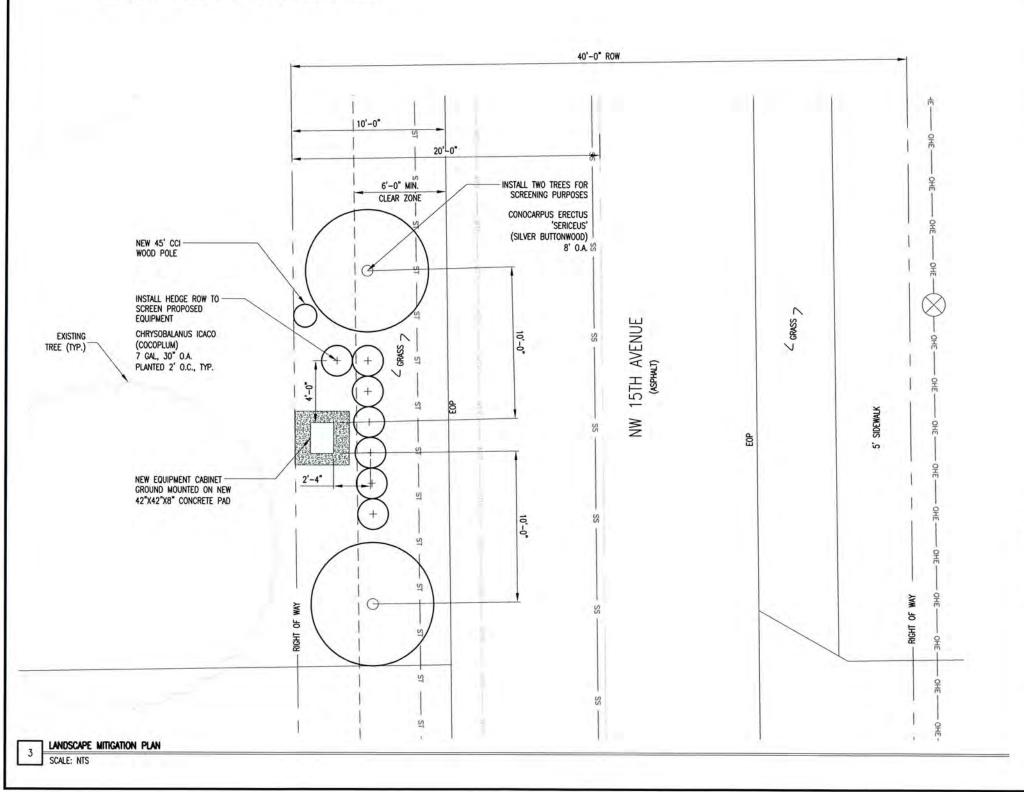


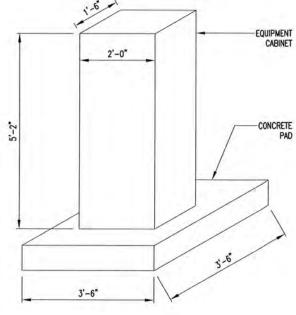
Page 26 of 33



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







DRAWN BY: EW CHECKED BY: JO 1 05/09/13 REVISED PER COMMENTS 0 10/31/12 ISSUED FOR PERMIT REV DATE DESCRIPTION



1 C7

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

NOTE 1 - REPRESENTS NOTE

SHT E7 REPRESENTS SHEET#

PARKING	AN TRAFFIC AND WORK WITHIN AND EQUIPMENT STAGING, TOR SHALL RESTORE ANY DISTU		
SYMBOL LE	GEND		
— E —	POWER CONDUIT	——ss—	- STORM
-1-	- TELCO CONDUIT	$\otimes$	UTILITY POLE
	- PROPOSED FIBER CONDUIT	9	HYDRANT
— OHE —	OVERHEAD CONDUCTORS GROUNDING	MH.	MANHOLE
— x—	- FENCE		CENTERLINE OF ROAD
w	WATER	0	PROPOSED WOOD POLE
— s —	SEWER	ŏ	PROPOSED CONCRETE UTILITY
GAS	- GAS		POLE

REPRESENTS DETAIL #

REPRESENTS SHEET#

NOTES:
1. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED.

2. CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN FOR

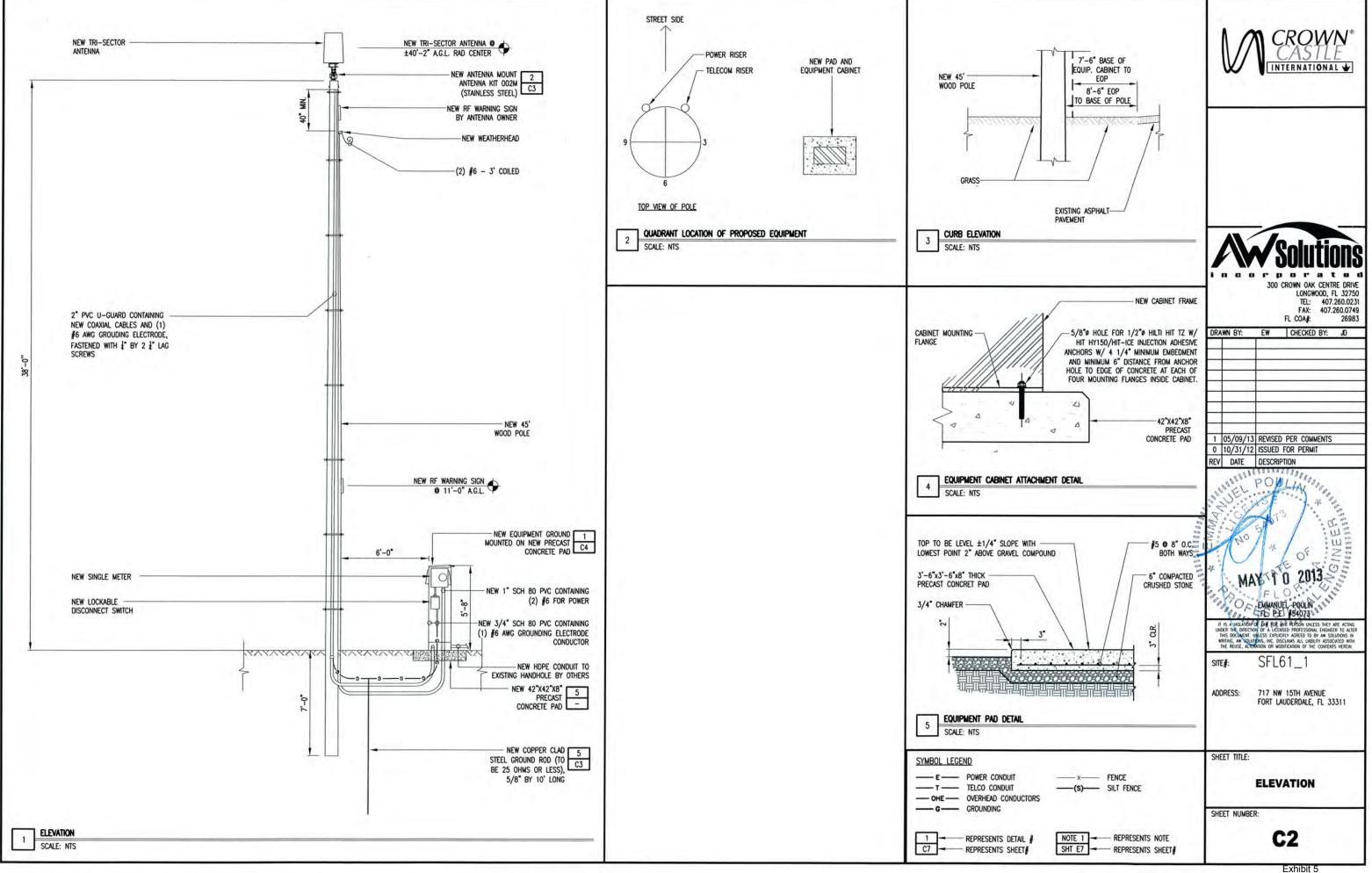
SFL61\_1 SITE#:

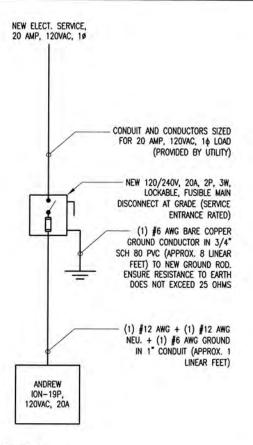
> 717 NW 15TH AVENUE FORT LAUDERDALE, FL 33311

SHEET TITLE: LANDSCAPE **MITIGATION PLAN** 

SHEET NUMBER:

C1.2





#### RISER DIAGRAM SCALE: NTS

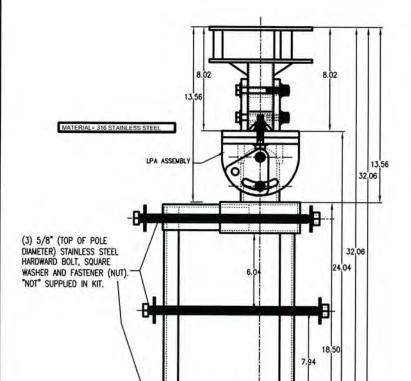
- SHORT CIRCUIT CURRENT RATING OF FUSIBLE MAIN DISCONNECT: 100kA. PER FLORIDA BUILDING CODE 2010: FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD OF 20A.
- PER FLORIDA BUILDING CODE 2010: BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD. 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.

FINISHED GRADE, STONE, ASPHALT,

SCALE: NTS

CONCRETE PAVING OR SOD. MATCH SLOPE

AND THICKNESS OF EXISTING SURFACE



ANTENNA MOUNTING KIT (002M) 2 SCALE: NTS

RESTORE SURFACE TO MATCH

ORIGINAL CONDITION

COMPACTED BACKELL (SUITABLE ON SITE MATERIAL)

TELCO CONDUIT WHERE APPLICABLE

- 6" WARNING TAPE

(REFER TO NOTE 4)

UNDISTURBED

## KUTHREIN SCALA DIVISION

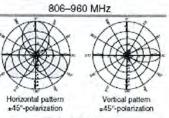
Kathrein's dual band antennas are ready for 3G applications. covering all existing wireless bands as well as all spectrum under consideration for future systems, AMPS, PCS and 3G/UMTS.

- · 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.

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 dB >40 dB (806-960 // 1710-2170 MHz)		
Radome color	Brown, gray or dark gray (custom colors available at additional cost)		
Weight	50 lb (22.7 kg)		
Height	24 inches (609 mm)		
Radome diameter	16 inches (407 mm)		
Equivalent flat plate area	1.6 ft² (0.148 m²)		
Wind survival rating*	100 mph (160 kph)		
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.		

25 dB (typical)





1710-2170 MHz Vertical pattern Horizontal pattern

See reverse for order information.						
Specifications:	806-866 MHz	824-894 MHz	880-960 MHz	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Gain	11.1 dB	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)	>25 dB (co-polar) >22 dB (total power)	>25 dB (co-polar) >22 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		e en la colonia de la colonia	E. P. L.			

18 dB (typical) >10 dB

16 dB (typical) >10 dB

1 05/09/13 REVISED PER COMMENTS 0 10/31/12 ISSUED FOR PERMIT REV DATE DESCRIPTION

> MAY & 0 2013 FEMINANUEL IROUUN . 5 5 5

300 CROWN OAK CENTRE DRIVE

FL COA#:

DRAWN BY: EW CHECKED BY: JO

LONGWOOD, FL 32750

TEL: 407.260.0231 FAX: 407.260.0749

26983

FEMMANUEL ROUGH FOR ANY PERSON LAY FOR ANY PERSON LAY

SFL61\_ SITE#:

ADDRESS: 717 NW 15TH AVENUE

FORT LAUDERDALE, FL 33311

SHEET TITLE:

**DETAILS** 

SHEET NUMBER:

C3

5

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

Cross polar ratio Main direction Sector

SCALE: NTS

3

ANTENNA SPECIFICATIONS

GROUND ROD DETAIL

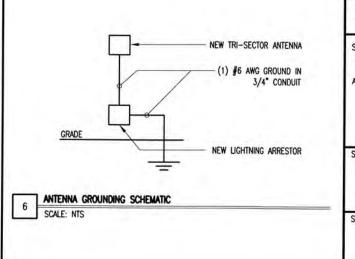
SCALE: NTS

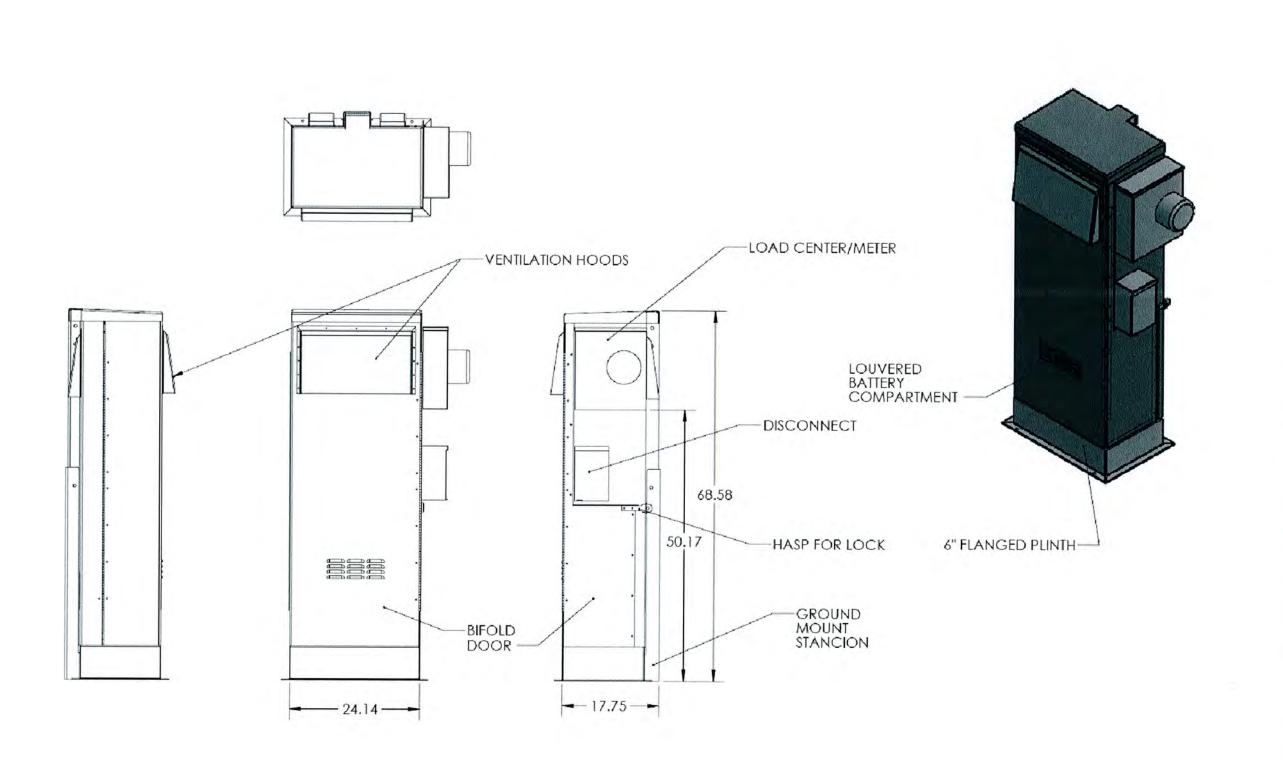
GROUND ROD TO BE DRIVEN 10' VERTICALLY.

#### 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."

6" MIN.

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





SHROUD KIT LOSH-BBU-1 GROUND MOUNT

SCALE: NTS



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

DRAWN BY: EW CHECKED BY: JO 1 05/09/13 REVISED PER COMMENTS 0 10/31/12 ISSUED FOR PERMIT REV DATE DESCRIPTION



SFL61\_1

717 NW 15TH AVENUE FORT LAUDERDALE, FL 33311

SHEET TITLE:

**DETAILS** 

SHEET NUMBER:

C4

- CENTRAL PROVISIONS

   CONTRACT OF PRIVATE

  THE INTENTION OF THE DOCUMENTS IS TO SHOW THE COMPLETE INSTALLATION AND TO INCLUDE ALL LABOR AND

  MATERIALS RESONABLY RECESSARY, METHERS OR NOT SPECIFICALLY INDICATED, FOR THE PROPER EXECUTION AND

  COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT. THE INTENT OF THIS DOCUMENT IS NOT TO DESIGNATE

  THE MEANS AND METHODS OF PROCEDURE OF THE WORK. THE CONTRACTOR SHALL SUPPRIVES AND COORDINATE ALL

  "INCLUDING THE WORK THE CONTRACTOR SHALL SUPPRIVES AND COORDINATE ALL

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  "INCLUDING THE WORK THE CONTRACTOR SHALL SUPPRIVES AND CONTRACTOR SHALL SUPPRIVES AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES, STANDARDS

  - JUPIS SMALL BE PERGUNATED IN ACCORDANCE WITH THE DITEST EDITION OF UPPELDENTS.

    FBC. FLORIDA BUILDING CODE 2010
    AISC.—AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS IEEE.—INSTITUTE OF ELECTRONG. BUSINESS BUSINESS.
  - NEC NATIONAL FLECTRICAL CODE
  - NEJA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
    UL UNDERWITTERS LABORATORES
    NSPC NATIONAL STANDARD PLUMBING CODE
    INC. INTERNATIONAL MECHANICAL CODE

  - NFPA NATIONAL FIRE PROTECTION ASSOCIATION
    OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
  - ANSI/TIA TELECOMMUNICATIONS 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
- THE ENCHEDRING DAYLORS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPUSHED UNDER THIS CONTRACT.
  THE ENCINEERING DRAWNAS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPUSHED UNDER THIS CONTRACT.
  INCIDENTAL WORK MUST ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ENCINEERING DRAWNASS DUE TO CHANGES
  AFFECTING EDSTING ELECTRICAL OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO A PART OF THIS CONTRACT.

  AFFECTING EDSTING ELECTRICAL OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO A PART OF THIS CONTRACT.

  THE MACHINE WAS ALSO BE NECESSARY IN AREAS AND SHOWN OF THE PROPERTY OF THE INSPECT THOSE AREAS AND ASCERTAIN WHAT IS NEEDED TO DO THAT WORK IN ACCORDANCE WITH THE CONTRAC
- INSPECT THOSE MEAS AND ASCENTAN WHAT IS REBEBLY TO DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. DO NOT SCALE DRAWNES, ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. MINOR DEVIATIONS 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 WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT A CHANGE ORDER. GENERAL CHAN ANTENNA DRAWNINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWNINGS. ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE GENERAL.
- Continuations.

  The General Notes contained Herein are part of the plans and specifications, and are to be complied 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 notes in all respects.
- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENT TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- NOT SPECIFICALLY SHOWN OTHERWISE.

  REPRESENTATION OF TITLE NORTH OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARNING OF THE TITLE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY OR SHAWNING AND AT THE SITE FOR THE ESTABLISHMENT OF THE TITLE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEDING WITH THE WORK IF MAY DISCREPANCY IS FOUND BETWEEN THE VANOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TITLE WORK IF MAY DISCREPANCY IS FOUND BETWEEN THE VANOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TITLE WORK IF MAY DISCREPANCY IS FOUND BETWEEN THE VANOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TITLE WORK IF MAY DISCREPANCY IS FOUND BETWEEN THE VANOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TITLE WORK IF MAY DISCREPANCY IN FOUND BETWEEN THE CONTRACTOR SHALL ASSUME SOLE LUBBLITY FOR ANY FAILURE TO NOTIFY THE
- THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
- AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK TO METHOD FOR JOB SITE CONDITIONS THE CONTROL WILL BE REQUIRED TO ASSULE SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SVETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT STALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL MORRING HOURS. THE CONTRACTOR TURTHER AREES TO INDOMINEY AND HOLD THE DESIGN ENOMER HARMLESS FROM ANY AND ALL LABBILTY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS SUCH AS OSHA COMPLIANCE DURING THE PROPERTS OF THE WORK. THE ENGINEER WILL NOT ADMISE MOR PROVIDE DIRECTION AS TO SELECT PERFORMANCE OF THE PROPERTY.
- THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY OF THE SECURITY OF THE SITE LINTU COMPLETION OF THE

- 3. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY OF THE SECURITY OF THE SITE UNTIL COMPLETION OF THE CONSTRUCTION.

  4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTOR TO ENSURE THAT WORK PROGRESSION IS NOT INTERPUIPED.

  5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMING OF THIS CONTRACTOR AREA.

  5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMENCE OF THIS CONTRACTOR AREA.

  5. THE CONTRACTOR SHALL SUBBIT A CONSTRUCTION SCHEDULE TO THE PROPERTY OWNER WERE CONSTRUCTION SCHEDULE.

  6. THE CONTRACTOR SHALL SUBBIT A CONSTRUCTION SCHEDULE TO THE PROPERTY OWNER WELL IN ADVANCE OF THE STARTING DATE OF THE WORK. THE ALL ASSOCIATION AND THE CONTRACTOR SHALL EXCENSIVE FOR PROPERTY OF A CHANGE IN THE CONSTRUCTION SCHEDULE.

  7. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDE PERMITS.

  8. EACH CONTRACTOR IS RESPONSIBLE FOR PROVIDED FOR BUILDING PERMIT AT THE LOCAL JURISDICTION AS THE CONTRACTOR IN THIS JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DISCUSSION.

  7. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DISCUSSION.

  8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION OF AN EXPENDITURE. AN EXTENSION IN THE CONTRACTOR SOFTONISE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION OF AN EXPENDITURE. AN EXTENSION SHALL BE PROVIDED TO THE OWNER PROVE TO THE WORK.

  8. A COPY OF THE APPROVIDE PINAS SHALL BE FOR THE PURPOSE OF DOCUMENTING ALL SCHOOL, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL THERS. IT IS THE CONTRACTOR RESPONSIBILTY TO ENSURE ALL CONSTRUCTION SETTS REPLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT TH ADDENDA, OR CHANGES ORDERS. THE CONTRACTOR IS TO PROVIDE THE OWNER WITH A FULL SET OF RECORD DRAWINGS WITH ACTUAL DIMENSIONS,
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK AND THE PROTECTION OF ALL TOWNS CONTRACTOR SHOW THE CONTRACTOR SHOWN OF THE CONTRACTOR SHALL BE SHOWN OF THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK AND THE PROTECTION OF ALL TOWNS OF THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK AND THE PROTECTION OF ALL WORK OURSING CONSTRUCTION TO AVOID DIAMAGE, COLLAPSE, DISTORTION, MISAUCHMENT AND AUTEDATION OF PRODUCT WIRESAMENT.
- ALTERATION OF ROOFING WARRANTIES
- THE CONTRACTOR IS RESPONSIBLE TO PROMDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE

- 25. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR COVERNING ACENCY.

  26. THE CONTRACTOR SHALL MONITOR ALL EXISTING STRUCTURES DURBING CONSTRUCTION.

  27. THE CONTRACTOR SHALL MONITOR ALL EXISTING STRUCTURES DURBING CONSTRUCTION.

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

  29. ALL MATERIALS MUST BE STORED IN A LEYEL AND DRY LOCATION AND IN A MANIFER THAT WILL NOT DESTRUCT THE PLOW OF OTHER WORK RELIED OR NOT TO THIS CONTRACT, ANY COUPHINGTH OR MARRING SUST MEET ALL RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL INSPECT THOROUGHLY ALL MATERIALS AND EQUIPMENT PROR TO FINAL INSTALLATION. DAMAGED ECOMPHENT OR MATERIALS SHALL BE INSTALLED PER THE MANUFACTURERS' INSTRUCTIONS.

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

  31. EXCEPT FOR WARNING SIGNS SUCH AS "NO SIGNS THAT STATE OWNERSHIP AND EMERGENCY TELEPHONE NUMBERS, NO SIGN SHALL BE LOCATED ON THE TOWER.

- 2 Existing conditions and structures

  Before Beginning work at the site, the contractor shall inspect the existing compound or building and BEFORE BEGINNING WORK AT THE STIE, THE CONTRACTOR SHALL INSPECT THE EXISTING COMPOUND OR BUILDING AND DETERMINE THE EXTENT OF DESIMING PINISHES, SPECIALIES, COUPMENT AND OTHER TIBLS WHICH MUST BE REMOVED AND REINSTALLED IN GROER TO PERFORM THE WORK UNDER THIS CONTRACT. THE CONTRACTOR MUST VERBLY ALL DIMENSIONS, COMMONIS AND ELEVATIONS BEFORE STARTING WORK. NO EXTRA CHARGE OR COMPENSION SHALL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWNINGS. ALL DISCREPANCES SHALL BE CALLED TO THE ATTENTION OF THE CHINGIER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK ALL WORK SHALL BE PERFORMED IN A WORKGLARLING MANHER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION BOALTICES. H ACCEPTED CONSTRUCTION PRACTICES
- BY SUBMITTING A BID FOR THIS WORK, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS THOROUGHLY REVIEWED AND UNDERSTOOD THE CONSTRUCTION DOCUMENTS, VISITED THE SITE AND IS FAMILIAR WITH THE CONDITIONS ENCOU
- AT THE STIE.

  THE CONTRACTOR, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF AN MATTER OR THING WHICH SUCH THE CONTRACTOR MIGHT NOT HAVE FULLY INFORMED HIMSELF PROR TO BIDDING. NO PLEA OF INFORMED OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED MILL BE ACCEPTED AS A REASON FOR MAY FALLINE 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 Hinself with the suprounding 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 Poisting Underground Utilities have not been verified by the owner or its representative. The Contractor is responsible for hanns all underground Utilities located within the Limits of
- THE CONTRACTOR IS RESPONSIBLE FOR HAWING ALL UNDERGROUND UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND ACCESTS FULL RESPONSIBILITY FOR ANY HOW ALL DAMAGES WHICH WORTH BE CAUSED THE CONTRACTOR FALURE TO LOCATE ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK.

  SHOULD ANY ERROR OR INCONSISTENCY APPEAR IN THE DRAWNES OR SPECIFICATIONS, THE CONTRACTOR BEFORE PROCECIDING WITH THE WORK MUST MAKE MENTION OF THE SAME TO THE ENGINEER AND OWNER FOR PROPER ADJUSTMENT AND IN NO CASE PROCEED WITH THE WORK IN UNDERTAINTY OR WITH INSUFFICIENT DRAWNESS. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERTICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR CONSIDERATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWNESS. ANY DISCREPANCY IN DIMENSIONS HIGHCATED ON THE CONSTRUCTION DRAWNESS. ANY DISCREPANCY IN DIMENSIONS HIGHCATED ON THE CONSTRUCTION DRAWNESS. ANY DISCREPANCY IN DIMENSIONS HIGHCATED ON THE CONSTRUCTION DRAWNESS. ANY DISCREPANCY IN DIMENSIONS HIGHCATED ON THE CONSTRUCTION OWNER REPRESENTATIVE FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFE AREAS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF TH
- WAREAS, THE CONTRICATES WOOK STALL NOT WAY! 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 DRAWNESS ARE BELIEVED TO BE ACCURATE, IF THEY ARE DISCOVERED TO BE INACCURATE, HOTIPY ENGNEEDS IMMEDIATELY AND DO NOT PROCEED WITHOUT INSTRUCTIONS.
- MOTIFY ENGINEERS IMMEDIATELY AND DO NOT PROCEED WITHOUT INSTRUCTIONS.

  PRIOR TO STATUTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMACES WHICH MAY OCCUR
  DURRIC CONSTRUCTION. ANY DAMAGES TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE
  IMMEDIATELY REPARRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR
  THE COST OF REPARRICO OR REPLACION ANY OWNESS REAS.

  THE CONTRACTOR STRULT THE ALL PRECAUTIONARY MESURES AND EFFORTS TO PROTECT THE STRUCTURAL INTEGRITY
  OF EXISTING STRUCTURES. WHEN WORK IS PERFORMED IN THE WIGHTIY OF EXISTING STRUCTURAL BEARD
  INTEGRITY AND STABILITY SHALL BE MONITORED AT LITINGS DURING EVERY PHASE OF THE CONSTRUCTION.

  THE CONTRACTOR SHALL PROTECT DUSTING PROPERTY LINE MONIMENTATION. ANY MONIMENTATION DISTURBED OR
  DESTROYED, AS JUDGED BY THE OWNER OR OWNEY'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S
  EPPENSE UNDER THE SUPPRISON OF A LUCKSED LAND SUPPLYOR.
- EXPENSE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR
- DESTROYED, AS JUDGED BY THE OWNER OR OWNER'S REPRESENTAINE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE UNDER THE SUPERISON OF A LOESSED LAWD SURFECER.

  3. NEW CONSTRUCTION ADOED TO EXSTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTICE IN THE PLANS.

  4. WHERE INDICATED ON THE PLANS. THE CONTRACTOR SHALL PAINT ALL NEW ANTENNAS SHROUDS AND RELATED MOUNTING HARDWARE TO MATCH THE DISTING ADMOENT SHRACES, THE CONTRACTOR SHALL NOT USE A METAL BASED PAINT FOR ANTENNAS. ALL SURFACE CONTRAINTON SHALL BE REMOVED POOR TO PAINTING NEW SURFACES.

  5. THE PLANS SHOW SOME KNOWN SUSSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES MOJOR UTLITIES BELIEVED TO DOST IN THE WORKING RASE, EXACT LOCATION OF WHICH MAY WARY FROM THE LOCATION S FORCES TO PARTICULAR, THE CONTRACTOR IS WARRIED THAT THE EDACT OR EVEN APPROXIMATE LOCATION OF SUCH PRELINES, SUBSURFACE STRUCTURES AND/OR UTLITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE IN RESPONSIBILITY TO PROCEED WITH GREAT CAME IN EXECUTION ANY WORK. BEFORE YOU DIG, DRILL OR BUSST, OAL THE UNDERFROUND STRUCTURES AND/OR UTLITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE ALL EXISTING ACTIVE STRUCTURES AND/OR UTLITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE ALL EXISTING CAME STRUCTURES AND/OR UTLITIES IN THE RECOURSED THE CONTRACTOR SHALL BE COLORIDAD OR BUSST, OAL THE UNDERFROUND STRUCTURE OF THE WORK, SHALL BE RECOURSED AS DIRECTED BY BY BICCOMPACTOR MENH EXCLANDING OR PIER DRILLING AROUND OR HEAR UTLITIES. THE CONTRACTOR SHALL PROVIDE SHETTY ARE ENCOUNTEED AN ON INTERFERE WITH THE DISCUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY BY BICCOMPACTOR SHOW EXCLANDING OR PIER DRILLING AROUND OR HEAR UTLITIES. THE CONTRACTOR SHALL PROVIDE SHETTY PARAMIC FOR THE WORK OR PIER DRILLING AROUND OR HEAR UTLITIES. THE CONTRACTOR SHALL PROVIDE SHETTY PARAMIC FOR THE WORK OR HE UTLITY WORK SHALL BE DONE IN ACCORDANCE WITH THE UTTLY COMPANIES EXCOUNTED AND AND FOR FULLOW ON THE WORK. THE UTIL

- MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- Mantain Flow for All Existing Utilities.

  THE Contractor shall existing all public or private property Damaged or removed to at least as good of condition as before disturbed as determined by the owner or owner's representative.

  Provide trinished Subfaces including James and Heads of Openings used as passagemans through which equipment for materials will pass.

  Provide protection for equipment room subfaces prior to allowing equipment or materials to be moved.
- MAINTAIN FINISHED SURFACES CLEAN, UNARMED AND SUITABLY PROTECTED UNTIL JOB SITE IS ACCEPTED BY THE
- umber. In the event of damage to an eosting structure, the contractor small notify the owner or its representative inmediately, and then promptly make all replacements and reparts to the satisfaction of the owner. The owner may elect to use a thero party contractor to perform the reparts. All expenses associated with the repairs and replacements small be paid by the general contractor selected for this
- CONTINUED, AND THE REQUIRED TO SECURE REPLACEMENT AND MAKE REPAIRS WILL NOT BE CONSIDERED BY THE OWNER TO JUSTIFY AN EXTENSION IN THE CONTRACT TIME FOR COMPLETION.
- USE MOST DIRECT ROUTE FROM PUBLIC STREET AS AGREED TO BY COMPOUND OR BUILDING OWNER. FOR ACCESS TO
- AN DISTING BUILDING INTEROOR, USE LOVING DOCK AS AGREED TO BY BUILDING OWNER.

  COORDINATE WITH SITE OWNER CONSTRUCTION SCHOLE & SITE ACCESS, ENSURE THAT THE OWNER OF PARENT
  PARCEL IS NOTIFIED IN WITHING 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 INCOMMENT. AND/OR ELECTRICAL SERVICES, MATERIAL DELIVERES AND STORAGE, STAGING AREA, CRANE LIFTS WITH THE OWNER PROPERTY OF THE WORK.

  CONTRACTOR SHALL COORDINATE WITH AN OWNER REPRESENTATIVE, THE TEMPORARY REMOVAL OF FENCE, LANDSCAPING & ANY EXPECTED DAMAGE TO ACCESS ROAD OR ADJACENT REPAIR OF PROPERTY PROR TO COMMENCING THE WORK.
- THE CONTRACTOR SHALL COORDINATE WORK HOURS A STACING AREAS WITH OWNER CONTRACTOR TO NOTIFY PROPERTY OWNER OF CONSTRUCTION START DATE WELL IN ADVANCE OF CONSTRUCTION.
- MIENANCE: STAINING OR REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY. REMOVE HAZARDOUS ACCUMULATIONS OF DEBRIS PROMPTLY, AT LEAST DAILY, CONTINE DUST PRODUCING OPERATIONS DURING CUTT DRILLING, PAINTING AND FINISHING. THERE SHOULD BE NO OVER SPRAYING PAINT IN PARKING AREA. VACUUM IMMEDIATELY AFTER COMPLETION.
- THERE SHALL NOT BE ANY CREATION OF NOISE OUTSIDE THE NORMAL HOURS OF 7 AM TO 6 PM, UNLESS OTHERWISE
- INDIE SMUL NOI BE ANY CREATION OF MOISE CUISIDE THE NORMAL HOURS OF "AN TO 6 PM, UNLESS THERMISE ARREED UPON WITH THE OWNER. NOISE SHOULD BE KEPT TO A MAINIUM THROUGHOUT CONSTRUCTION.

  NOISE AND COSTING BUILDING STRUCTURE WISRANDIN GENERATED BY CONSTRUCTION PROCEDURES, EQUIPMENT, TOOL.

  AND OPERATIONS APET TO BE KEPT TO A PRACTICABLE MINIMUM. WHERE USE OF HIGH NOISE LEVEL EQUIPMENT IS UNAVIOLABLE, AND CAN BE HEARD, CONFINE TO HOURS BEFORE 7 A.M. AND AFTER 8 P.M. MONDAY THROUGH PRIGAY OR AS AGREED 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 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 NEAT AND ORDERLY SITE, YARD AND GROUNDS, REMOVE AND DISPOSE LEGALLY OFF SITE ALL RUBBISH. WASTE MATERIALS. LITTER, AND ALL FORSION SUBSTRACES, REMOVE
- PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED SUPPLIES.

  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, READY FOR USE. LEAVE ROOF AREAS, PIPE SPACES AND OTHER SPACES CLEAN AND FREE
- FROM DEBRIS ON A DULY BASS.
  THE SITE AND/OR BUILDING SECURITY SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION IN ORDER TO PREVENT UNMUTHORIZED PERSONS FROM EMIERING THE PREMISES. BOSTING AND NEW EQUIPMENT AND MATERIALS REMAIN THE CONTRACTOR'S RESPONSIBILITY AT ALL TIME DURING CONSTRUCTION.
  THE TENANT'S MORESS AND EGRESS OF THE SITE AND/OR BUILDING SHALL BE MAINTAINED THROUGHOUT
- THE CONTRACTOR SHALL TAKE ALL MEASURE NECESSARY TO MAINTAIN POLLUTION CONTROL, COMPLY WITH ALL
- GOVERNING REGULATION PERTAINING TO ENMRONMENTAL PROTECTION, AND PROMPTLY REMOVE ALL DEBRIS AND ACCUMULATION OF MATERIALS RESULTING FROM THE WORK. .5 TEMPORARY FACILITIES . The contractor shall consider that water, power and light are not available at this site. When
- THE CONTRACTOR SHALL CONSIDER THAT WATER, POWER AND USH'T ARE NOT AWALABLE AT THIS STIE, WHEN PERMANENT POWER IS ESTABLISHED, ALL CONTRACTORS MAY USE THE SERVICE CONNECTION FOR PRODUCTION WORK ONLY, PROMDED THAT ELECTRICAL CORDS AND CONNECTIONS ARE FURNISHED BY THE CONTRACTORS AND ARE DISCONNECTED AND PROPERLY STORED DURING NON-WORKING HOURS. THE CONTRACTOR IS RESPONSIBLE TO PROMDE TEMPORARY POWER, WATER AND TOLLET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- DEMOLITION AND EXISTING STRUCTURAL ALTERATION
- LORGITHM SPECIFICS
   CORERAL CONTRACTOR IS TO DEMOUSH AND REMOVE FROM SITE (AND DISPOSE OF APPROPRIATELY) ALL ITEMS NOTED
  FOR DEMOUNDIN IN THE ARCHITECTURAL, CMIL, ELECTRICAL AND/OR STRUCTURAL DRAWNOS, INCLUDING BELOW GRADE
  FOUNDATION AND STRUCTURES. CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF
- COURNEY & MATERIALS.

  CONERAL CONTRACTOR IS TO EXERCISE UTINOST CARE DURING DENOUTION AND PROMPTLY INFORM THE ENGINEER OF ANY DEVATION TO THE EXISTING STRUCTURE FROM WHAT IS SHOWN IN THESE PLANS PROOR TO PROCEEDING WITH THE
- ondral contractor is solely responsible for the shoring, bracing, providing lateral support, and for maintaining the integrity of the existing structure during all phases of the denolition and construction and small provide, if required, signed a sealed shop drawings, by a registered professional engineer for the shoring of all malls, beams, suars, roof joists, or other elevated structural items, that are

- HAVING THE SUPPORT BELOW NOTED FOR DEMOUTION.

  ANY DAMAGE DUE TO DEMOUTION, OR OTHER CONSTRUCTION ACTIVITIES, DONE TO ANY EXISTING SURFACE TO REMAIN SHALL BE REPAIRED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER
- SHALL BE REPARED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.

  2.2 CUTTING & PATCHING

  1. DO NOT DRUL OR CUT EXISTING FLOOR JUSTS, BEAUS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS SPECIFICALLY NUMCATED. ORILL SLABS WHERE APPROVED. COSE DRUL CRUZING POPENINGS THROUGH CONCRETE SLAB. LINE ORILL FOR RECTANGLAR OPENINGS, MAKE OPENINGS OF PROPER SIZE FOR COMUNIT, DUTCS, PEPS AND OTHER ITEMS PASSING THROUGH OPENINGS, MAKE ALL NOW HOLES OR OPENINGS BE WEATHER TIGHT OR FIRE SAFE AS DEPUNINGS TO PER LOCAL HIERORY CONCRETE SLAB. REQUIRED BY LOCAL BUILDING CODES & ORDINANCES.
  PREPARE, SUBMIT AND RECEIVE APPROVAL OF SLEEVES AND OPENING DRAWINGS BEFORE LOCATING SLEEVES AND
- enings in New Construction and before orilling existing structure. Show each opening and sleeve in
- THE ENTIRE PROJECT.

  SEAL WATER THORT AND PROTECT WITH FIRE PROOFING MATERIALS NEW SLEEVES AND OPENINGS THROUGH ROOFS, FLOORS AND INVERTICAL CHASES AS REQUIRED BY CODE AND INDUSTRY STANDARDS, ALL FLOOR AND WALL PREPRETATIONS SHALL BE SEALED WITH FIRE RETARDANT COMPOUND MEETING UL CALSOAS.

  THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH
- WHERE CUTTING OF EXISTING SURFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK
- UNDER THIS CONTRACT AND A NEW PINISH IS NOT MOCKED, FILL RESULTING OPENINGS AND PATCH THE SURFACE AFTER DOING THE WORK AND FINISH TO MATCH ADJUGOTE DISTING SURFACES.

  AFTER DOING THE WORK AND FINISH TO MATCH ADJUGOTE DISTING SURFACES.

  ECCEPT IN SPACE WHERE NO MORK UNDER THIS CONTRACT IS REQUIRED, DALOSE EXISTING AND HEN CONDUITS, DUCTS, PIPES AND SMILLAR ITEMS IN FURRING WHERE SUCH ITEMS PASS THROUGH FINISHED SPACES WHETHER OR NOT furging is indicated. All concrete and masonry penetrations shall be done using rotary action only (no hammering action).
- X-PAYS ARE TO BE TAKEN PROOR TO DRILLING.

  CORE LOCATIONS IF REQUIRED SHALL BE CHOSEN SO AS TO ANOID CUTTING ANY REINFORCING BARS. FIRESTOP FLOOR OR MALL PRINTERMON WITH TWO HOUR NATED SEJAINT TO MEET UL CAUSOAS. PROVIDE WEATHERPROOFING OF ANY
- ROUP PENETRALIAMS. AND/OR REFINISH AS APPUCABLE TO MATCH ADJACENT DUSTING FINISHES THOSE EXISTING SURFACES DAMAGED OR NEW PROPOSED SURFACES DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT, WHERE CONDUITS, DUCTS, PRES AND SMULAR TIENS ARE SHOWN TO BE INSTALLED IN EXISTING WALLS OR PARTITIONS, NEATLY CHASE THE WALLS OR PARTITIONS, INSTALL THE TIMES AND PATCH THE WALLS OR PARTITIONS TO MAKE THE NSTALLATION NOT DISCERNIBLE IN THE FINISHED WORK
- INSTITUTION TO LOSS-COTTOBE. BY THE PRISHED WORD.

  NUMBER A NOW CUTTING IS NOT SCHEDULED, INSTALL NEW CONDUITS AND PIPES IN EVERY CASE, AND NEW DUCT WHERE POSSIBLE ABOVE EXISTING COLLING, REMOVE DOSTING COLLING AS NECESSARY, AFTER INSTALLATION OF CONCEALED WORK, REINSTALL REMOVED COLLING, AND PATCH AND REPINIST TO MATCH ADJUGHT UNREMOVED COLLING, REPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING MY POSTING RUST AND APPLYING

SITE WORK

- SITE WORK

  CLEARING AND GRUBBING

  CLEARING AND GRUBBING

  CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR THE CONSTRUCTION OF THE FACILITY SHALL BE REMOVED. ANY DAMAGES TO PROPERTY OUTSIDE THE CONSTRUCTION LIMIT SHALL BE REPAIRED ON REPLACED AT THE CONTRACTOR'S EVERSEE. THE CONTRACTOR SHALL: PROTECT EXISTING TREES, VEGETATION, LANDSCAPING MATERIALS AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING OR REMOVAL WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIONIES.

  TRIM EXISTING TREES AND VEGETATION AS RECOMMENDED BY THE ARBORIST FOR PROTECTION DURING CONSTRUCTION. CLEAR AND GRUB STUMPS, VEGETATION, DEBRISH, DESIGNATED TREES AND SITE IMPROVEMENT. STRIP AND STOCKPILE TOPSOIL
- STRP AND STOCKPILE TOPSOIL.

  PROTECT TEMPORABLY MOUCENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS.

  MARK DESIGNATED TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.

  PROMDE TEMPORARY EROSON CONTROL. SULTATION CONTROL AND DUST CONTROL.

  REMOVE AND LEGALLY DISPOSE OF CLEARED MATERIALS.
- <u>Excavation and backpill</u>
  All suitable Borrow material for back fill of the site shall be included in the Bid. Excess topsoil and
  Insuitable barrow 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 governing adences proof to
- all site fill shall meet selected fill standards as defined by the owner's representative on the NGS OR GEOTECHNICAL REPORT RECOMMENDATIONS.
- THIS PROJECT INCLUDES: ITON, TRENCHING, FILLING, COMPACTING AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS, ACCESS
- ALL MATERIALS FOR SUBBASE, DRAINAGE FILL, BACK FILL AND GRAVEL FOR SUBS, PAVENENT AND

- IMPROVIDENTS.

  ROCK EXCHAINON WITHOUT BLASTING.

  ROCK EXCHAINON WITHOUT BLASTING.

  SUPPLY OF ADDITIONAL MATERIALS FROM OFF SITE AS REQUIRED.

  REMOVAL AND LEGAL DISPOSAL OF EXCHAINED MATERIALS A REQUIRED.

  FILL LAYERS THAT REQUIRE COMPACTION SHALL HAVE A MAXIMAN THICKNESS OF 6 INCHES.

  THE COMPACTING UNDER STRUCTURES, BUILDING SLASS, STEEPS, PHASEMENT AND WALKHAYS SHALL BE 95% MAXIMAN DENSITY, ASTIN 0-1557, TESTED IN EACH OF THE COMPACTING LAYERS AT EACH COMPACTING SITE, OR AT LEAST IN EACH 1000LU, PER 174/ROS OF MATERIAL NOLUME.

  THE COMPACTING UNDER LAWINS OR UNEAVED AREAS SHALL BE 85% MAXIMAN DENSITY, ASTIN 01557.

  THE COMPACTING UNDER LAWINS OR UNEAVED AREAS SHALL BE 85% MAXIMAN DENSITY, ASTIN 01557.

  THE COMPACTION LAWING SHALL NOT EXCEED 8 INCHES.

  AREAS THAT DO NOT MEET ASTIN 0-1557 REQUIREMENTS MUST BE RECOMPACTED AT THE CONTRACTOR'S EXPENSES.

  AREAS THAT DO NOT MEET ASTIN 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 OSH EGULATIONS FOR CONSTRUCTION.
- REQUITIONS FOR CONSTRUCTION.
  WHERE UNSTABLE SOIL CONSTRUCTIONS EXIST, LINE THE GRUBBED AREAS WITH GEOTEXTILE FABRIC (MIRAFI 500X OR APPROVED EQUIVALENT) PROR TO PLACING FILL OR BASE MATERIAL.
  THE USE OF EXPLOSIVE IS PROHIBITED ON SITE.
  ALL EXCLUSION ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIAL HORIZONTAL, UNDISTURBED AND FREE FROM LOOSE MATERIAL AND EXCESS GROUND WATER SHALL BE SUBSTANTIAL FOR EXCESS GROUND WATER SHALL BE
- PROVIDED IF REQUIRED.

  13. 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 STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE
- BACK FILL SHALL USE APPROVED MATERIALS CONSISTING OF LOAM, SANDY CLAY, SAND, CRAVEL OR SOFT SHALE AND
- BOCK THE SMALL USE APPROVED MAIRBARDS COMPASSING OF LOAM, SMALL BE FREE FROM CLOSE STORES OVER 2 18".

  AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE AND BEFORE BACK FILLING, ALL EXCHANGIONS SHALL BE CLEAN OF UNSUITABLE MATERIALS SUCH AS VEGETATION, DEBRS, TRASH AND ANY FOREIGN
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AWAY FROM BUILDING OR EQUIPMENT ON THE STIE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE STIE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSES.

  THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE OURSING THE
- 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. 3.4 EROSIGN CONTROL

  CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CODES

  CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CODES
- Continator shall provide all enosion and sedimentation control measures as required by (coal codes and dordances to protect debanding) from soil loss and to prevent accountation of soil and silt in streams and drainage paths leaving the construction area. This may include such measures as silt fence, strain bales, sediment barsers and check dars.

  Strain bales, sediment barsers and check dars.

  PROSON CONTROL MEASURES May be required in addition to those shown on drawings where determined necessary by actual site conditions.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY
- TO OR FROM THE SITE.

  THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD
  ONTO PUBLIC ROAT! OF MAYS. THIS MAY REQUIRE PEROOIC TOP DRESSING WITH STONE AS CONDITIONS DEMAND,
  REPAIR AND/OR CLEAN QUI OF ANY STRUCTURES USED TO TRAP SEDMENTS. ALL MATERIALS SPILLED, DROPPED
  MASHED OR TRACKED FROM VEHICLE OF SITE CONTO ROADWAY OR INTO STORM DRAINS MUST BE REBUGGED.
  IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERMETER EROSION CONTROL
  DEVICES AND STORMINATER MANAGEMENT DEVICES SYALL BE INSTITULED PRIOR TO ANY OTHER CONSTRUCTION.
  ALL SLIT BARRIERS MUST BE PLYCED AS ACCESS IS OBTAINED DURING CLEARING. NO GROWNE SHALL BE DONE UNTIL
  SLIT BARRIERS MUST BE PLYCED AS ACCESS IS OBTAINED DURING CLEARING. NO ROADWOR SHALL BE DONE UNTIL
  SLIT BARRIERS MUST BE PLYCED AS ACCESS IS OBTAINED DURING CLEARING. NO ROADWOR SHALL BE DONE UNTIL
  SLIT BARRIERS MUST BE PLYCED AS ACCESS IS OBTAINED DURING CLEARING. NO ROADWOR SHALL BE DONE UNTIL
  SLIT BARRIERS MUST BE PLYCED AS ACCESS IS OBTAINED DURING CLEARING. NO ROADWOR SHALL BE DONE UNTIL
  SLIT BARRIERS MUST BE PLYCED AS ACCESS IS DETAINED DURING CLEARING. NO ROADWOR SHALL BE DONE UNTIL
  SLIT BARRIERS MUST BE PLYCED AS ACCESS IS DETAINED DURING CLEARING. NO ROADWOR SHALL BE DONE UNTIL
  SLIT BARRIERS MUST BE THE DONE UNTIL
  SLIT BARRIERS SHALL BE PLACED AT ALL
  DOWNSTERS ALL TO CP CLIT HAD PILL S LOPE.
- SLT BARRER INSTILLATION AND DETERMINES ARE CONSTRUCTED. SLT BARRIERS SHALL BE PLACED AT ALL DOWNSTREAM TOE OF CUT AND FILL SLOPES.

  THE LOCATION OF SOME PROSON CONTROL DEWOES MAY HAVE TO BE ALTERED FROM WHAT IS SHOWN ON THE APPROVED PLANS IF DRAWNER PROTECTED HAVE CONTROLLED REPOSED TO THE SHORT STATE OF PATTERNS OF THE CONCENTRATION ARE DIFFERENT FROM THE FINAL PROPOSED DRAWNER PATTERNS IT IS THE CONTRICTOR REPOSSIBILITY TO COOLING HE GROSON CONTROL FOR ORANIANE PATTERN CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICURTY IN CONTROL ERSONN DURING MAY PHASE OF CONSTRUCTION OF THE PROPOSED TO THE ENGINEER MANEDATELY. MAY DISTURBED ARE LET EXPOSED FOR A PERSON GREATER THAN (7) DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.

  8. THE CONSTRUCTION OF THE STE WILL INITIALE WITH THE INSTILLATION OF ERSONN CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSTS AND ERSONN. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VECETAION AND ALL RAMS AND DRIVENSY HAVE BEEN COMPLETELY STABILIZED WITH DEPOST ON THE OWN FLOOR OF SHALL INSPECT ERSONN CONTROL MEASURES AT THE DID OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

  FAULUS TO INSTALL POPERLY OR MAINTAIN ALL ERSONN CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.

UTILIZED FOR EROSION CONTROL

- UTILIZED FOR EROSON CONTROL.

  ALL OPEN SHALES MUST BE GRASSED, AND RP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSON, ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VECETATED WITHIN (7) DAYS OF CONSTRUCTION.

  SEDDING AND MULCHING OF THE SITE MILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR REVOKING AND MAINTAINING AN ADOLUME COVER OF VECETATION OVER THE SITE FOR A PERIOD OF ONE YEAR.

  SEDDIED PREPARATION: AREA TO BE SEEDED SHALL BE LOOSE AND FRABLE TO A DEPTH OF AT LEAST J. THE TOP LAYER SHALL BE LOOSENED BY RAVING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. IN LEQU OF SILL TEST RESULTS, APPLY SO LESS. OF 100-10-10 FERTILIZER PER 1000 SF. HARROW OR DISK LIMESTONE AND FERTILIZER PER 1000 SF.
  - 371.

    SEEDING: APPLY 5-6 LBS. PER 1000 SF. OF KENTUCKY 31 TALL FESCUE. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDED DRILL CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER RECOMMENDED ON STEEP SLOPES ONLY) ON MOIST, FIRM SEEDBED. MAXIMUM SEED DEPTH SHOULD BE ½' WHEN USING THE
- hydroseeder methód. Irrigate until vegetation is firmly established if soil moisture is not sufficient to SUPPORT ADEQUATE GROWTH.
- 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, SWILL BE STABILIZED WITH THE APPROPRIATE EROSON CONTROL MATTING OR BLANKET RIPAR SWILL BE CLEAN, HARD, SOUND, DURABLE, UNFORM IN QUALITY, AND FREE OF ANY DETRIBUENTAL QUANTITY OF SOFT, FRABLE, THIN, ELDORGHED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, AUKALI OR OTHER DELETEROUS SUBSTANCES.

3.5 GRADING

1. THE CONTRACTOR SHALL SEED THE GRADED AREAS PER DOT STANDARDS. AN SI GEOSCULTIONS LAND LOCK CS2

1. THE CONTRACTOR SHALL SEED THE GRADED AREAS PER DOT STANDARDS. AN SI GEOSCULTIONS LAND LOCK CS2

- EROSON CONTROL BLANKET SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
  THE CONTRACTOR SHALL PROMDE ADEQUATE WATERING TO ENSURE FAVORABLE GROWTH OF VEGETATION FOR A PERSON 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
- the grading tolerance for fill under building slabs shall be  $\pm 1/2$  inch measure with 10 FT straightedge. THE GRADING TOLERANCES OUTSIDE BUILDING LINES SHALL BE ±1 INCH FOR LAWNS, UNPAYED AREAS AND WALKS; AND
- W INCH LINDER PAVENENT 23) NCH UNDER PAREMENT. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND RE-GRADING ROADWAY AND/OR FIELD FOLLOWING THE INSTALLATION OF UTILITIES. ANY FILLS PLACED ON EXISTING SLOPES THAT ARE GREATER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY
- ANY HILLS PLUCED ON EXISTING SLOPES THAT ARE GREATER THAN TO HORIZONTAL TO I VERTICAL SYALL BE PROPER. BENCHED INTO THE EXISTING SLOPE.

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

  PROTECT EXISTING GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE, USE PLANGING OR GITHER SUITABLE MATERIALS DESCRIED TO SPREAD EQUIPMENT LOADS, REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUB-GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRICTION OPERATIONS, DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE THE SAME THAYBUSES.

CONCRETE

- I. CENERAL.

  DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING
- ACI 318 BULDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
  ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
  ACI 318 BULDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
  ACI 544.1R FIBER REINFORCED CONCRETE (IF SPECIFIED)
  ACI 544.2R MEASUREMENT OF PROPERTIES OF FIBER REINFORCED CONCRETE (IF SPECIFIED)
- ALS 544-2R MEASUREMENT OF PROPERTIES OF FIBER REINFORCED CONCRETE (IF SPECIFED)
  MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
  CONCRETE SHALL BE NORMAL WEIGHT, 6X ARE SHITMED (+-1.5X) WITH A MAXIMUM OF 4" SLUMP, AND HAVE A
  MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
  MAXIMUM ACCREGATE SZEE SHALL BE 1".
  THE FOLLOWING MATERIALS SHALL BE USED:

  PORTLAND CIMENT:

  RENFORCEMENT:

  ASTM C 150, TYPE 1

  ASTM A 185 & A 615
- ASTM C 150, TYPE I ASTM A 185 & A 615 ASTM C 33 ORINKABLE NORMAL WEIGHT AGGREGATE: ADMIXTURES: NON-CHLORIDE CONTAINING
- \* Administracy:

  Non-ducring: Childring

  Fiberdous Reinforcement:

  Reinforcing Details Shall be in accordance with the latest edition of AC 315.

  Reinforcing Stell Shall doe in accordance with the latest edition of AC 315.

  Reinforcing Stell Shall don'rom to astim A 161, grade 60, deformed unless otherwise noted. Welded wire fabric shall conform to astim A 185 welded wire fabric unless otherwise noted. Splices shall be class

  18 AND ALL HOOKS SHALL BE STANDARO, UN.

  THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROMDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE

  ON DEAWMINS.
- DRAWINGS: CONCRETE CAST AGAINST EARTH: 3 IN.
- CONCRETE EXPOSED TO EARTH OR WEATHER:
- CONCRETE EXPOSED TO EARTH OR WEATHER:

  (6 AND LANGER: 2 IN.

  (5 AND SAULER AND WHE: 1 % IN.

  CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

  SLABS AND WALL: % IN.

  BEAUS AND COLUMNS: 1 % IN.

  A CHAMFER OF % IN SHALL BE PROMOED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301

  SECTION 1.4.

  CHAMFER OF % IN SHALL BE PROMOED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301

  SECTION 1.4.

  CHAMFER OF % IN SHALL BE PROMOED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301

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  INSTALLATION 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
- EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- APPROVAL WHEN DELING HOLES IN CONCRETE
  CURRING COMPOUNDS SHALL CONFORM TO ASTIN C-309.
  ADMINITURE SHALL CONFORM TO THE APPROPRIATE ASTIN STANDARD AS REFERENCED IN ACI-301.
  ON NOT WELD OR TACKNED DERINGOROUS STEEL.
  ALL DOWELS, ANCHORS BOLTS, EMERINARY STEEL. ELECTRICAL CONDUITS, PIPE SLEEVES, CROUNDS AND ALL OTHER
  EMERIDDED TIBLES AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
  LOCATE ADDITIONAL CONSTRUCTION JOINTS SEQUIRED TO FACULTAIRE CONSTRUCTION AS ACCEPTABLE TO THE DISINGER.
- LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACULTATE CONSTRUCTION AS ACCEPTABLE TO THE DIGINEER. 
  PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
  REINFORCEMENT SHALL BE COLD BENT WHEN BENDING IS REQUIRED.
  PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANE OF 
  WEARNESS. VIBRATE THE CONCRETE TO PLLLY EMBED REINFORCING. DO NOT USE VIBRATOR TO TRANSPORT CONCRETE 
  THROUGH CHUTES OR FORMADING.
  ON NOT PLACE CONCRETE IN PROBLEMS WATER, ICE, OR ON FROZEN GROUND.
  FOR COLD WEATHER AND HOT WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND 
  RECOMMEDIATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED.
  PROTECT PRESS! CONCRETE FROM WEATHER FOR 7 DAYS MINIMALIM.

20. FIBER REINFORCED CONCRETE MIX, IF SPECIFIED, SHALL INCLUDE 1 1/2 LBS OF FIBER PER CUBIC YARD.

ncorporate

300 CROWN OAK CENTRE DRIVE LONGWOOD FL 32750 TEL: 407.260.023 FAX: 407.260.0749 FL COA#: 26983 EW CHECKED BY: JD

INTERNATIONAL &

1 05/09/13 REVISED PER COMMENTS 0 10/31/12 ISSUED FOR PERMIT REV DATE DESCRIPTION

DRAWN BY:



IT IS A WORDING OF TWO FOR MY PERSON UNITES THE FURE ACTING UNDER THE DISTRICULTE A TOCKNESS PROFESSIONAL PROBLEM OF ALTER THIS DOCUMENT, UNITESS EMPLYCITLY AGREEDING BY AN SOLUTIONS IN WRITING, MY SOLUTIONS, INC. DISTRICTURE THE ASSOCIATED WITH

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SHEET TITLE:

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ENCLOSURES / WIRENIA'S

EQUIPMENT CHENTA'S

EQUIPMENT CHENTES, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE CALVANIZED OR EPOXY-COATED

9. SHEET STEEL, SHALL MEET OR EXCEED UL. 50, AND BE RATED NEDA 1 (OR BETTER) INDOORS OR NEDA 3R (OR WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER AND RATED NEWA 1 (OR BETTER)

3. JUNCTION BOXES: JUNCTION BOXES SHALL BE A MINIMUM SIZE OF THE COMPLETION OF WORK AND RESTORE ALL 11.5 HOURS. SLEEVES AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL DIAMAGED SURFACES TO MATCH SURFOUNDING SURFACES.

CONDUIT PENETRATIONS: SIZE CORE-PRILED 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 OPENINGS ARE CUT IN LIEU OF CORE-ORBILED, PROVIDE SURFACES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND SLEEVE TO MATCH STREAMS SURFACES.

SURROUNDING SURFACE.

PROMOE APPORPAIR WEATHERPROOFING MATERIALS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL WATER INTRUSION. PROWDE FIREPROOF MATERIALS FOR PENETRATIONS REQUIRING A FIRE RATED SEAL. REFER TO CUITING AND PATCHING MOTES SURPER SECTION 1 — CENERAL.

IF MAY ROOFING WORK IS TO BE PERFORMED, THE CONTRACTOR SHALL USE THE BUILDING OWNER'S APPROVED ROOFING CONTRACTOR TO PREVENT VIDIONG MAY EXISTING ROOFING WARRANTIES. MAY DAMAGE TO THE EXISTING ROOFING MERBRARE SHALL BE REPARED IMMEDIATELY TO ANDO MOSTURE INTRUSION INTO THE BUILDING SHALL GENERAL: PROMOE ALL CUITING, DRILLING, FITTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK. THIS INCLUDES REMOVAL AND REPLACEMENT OF DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF

IRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS,

USING SKILLED MECHANICS OF THE TRIDES INVOLVED.
DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL PATCHING SHALL BE OF QUALITY EQUAL TO AND OF IATCHING APPEARANCE OF EXISTING CONSTRUCTION

7 FECTIONAL SERVICE
GENERAL: COMPAY WITH AND CO-ORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.
SHORT CIRCUIT RATINGS: PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY
COMPANY AVAILABLE FAULT CURRENT.

COMPANY AVAILABLE FAULT CURRENT AND ENSURE THAT ALL EQUIPMENT MEETS FAULT CURRENT (AT A MINIMUM ALL EQUIPMENT TO BE 10,000 AC).

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

IDENTIFICATION: IDENTIFY SERVICE DISCONNECTION MEANS WITH PERMANENT NAMEPLATE. THE LOCATION SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION WITH THE ELECTRIC UTILITY.

LOCATION AND ARRANGEMENTS: DRAWINGS INDICATE DUGSAMMATICALLY THE DESIRED LOCATION OF EQUIPMENT, RIVURES, OUTLITS, ETC., AND ARE NOT TO BE SCALED. PROPER JUDGMENT MUST BE EXERCISED IN THE EXECUTION TO ENSURE THE BEST POSSIBLE INSTALLATION.

PANEL AND DISTRIBUTION BOARD IDENTIFICATION: SWITCHBOARDS, PANELBOARDS, TRANSFORMERS AND DISTRIBUTION SECTIONS SHALL BE IDENTIFIED WITH ENGRAVED, WHITE ON BLACK, LAMINATED, RIGID PHENOLIC NAMEPLATES WITH 1/4 NICH CHARACTERS, SECURELY AFTIXED TO FACE OF CABINET.

INCH CHANGELES, SCIOLETY AFFRED TO FACE OF CABRET.

I. BEEFPHONE SERVICE

1. GERERAL INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY'S RULES AND REQULATIONS.

2. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE TELEPHONE UTILITY RELATIVE TO A TIMELY INSTALLATION OF THE INCOMING TELEPHONE SERVICES AND PARING ALL ASSOCIATED FEES.

3. METALLIC CONDUIT OR TUBING FOR TI LINES SHALL BE BONDED TO GROUND ON BOTH EMDS.

4. THE LOCATION SHOWN FOR A TELEPHONE POLE OR CONNECTION TO THE TELCO DELARCE IS FOR CONCEPTUAL USE ONLY. THE CONTRACTOR SHALL CORDINATE THE ACTUAL LOCATION WITH THE TELEPHONE UTILITY.

11.9 ORGCNOUT. TESTING AND ADJUSTING
1. CORRECTION/REPLACEMENT: AFTER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT MY DEFICIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED

CAPACITY.

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

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

REPRESENTATIVE.

11.10 PACEWAY STSTEMS / 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 DEFORE RISING ABOVE CRAVDE OR CONCRETE SLAB. EXPOSED CONDUIT SHALL BE RISID GALVANIZED STEEL (RGS) CONDUIT OR SCHEDULE 80 PVC CONDUIT.

2. GRS CONDUITS, WHEN SPECIFIED, SHALL MEET U.—8 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR USS WITH THREADED RODO CONDUIT.

3. ELECTRICAL METALLIC TUBBNG (DUT) OR RIGID, NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40, PR LOCATIONS SUBJECT TO PHYSICAL DAMACE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

4. ELECTRICAL METALLIC TUBBNG (DUT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40) SHALL BE USED FOR CONCRETE BUDDOE (CARDINE).

CONCEALED INDOOR LOCATIONS

Conceald indoor locations.

Louid-Tight Pledble Metallic Conduit (Liquid-Tite Flex) shall be used indoors and outdoors, where vibration occurs or redbility is needed.

Plug and one pack hero of spare and empty conduits and promoe two separate pull strings — 200 lb. Test polysthmldie cord.

All conduit beinds shall be minimum of 24 inch radius.

All iretallic racenars shall be grounded per Nec.

The controlor 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 placement is to be done in a professional manner.

PROFESSIONAL MANNER.

11.11 BELDING GRADE

1. THIS SITE INCLUDES NEW CRITICAL UNDERGROUND ELECTRIC, TELEPHONE AND OTHER SERVICES IN THE WOINTY OF OTHER UNDERGROUND SERVICE DISCUSSED AND THESE FACILITIES. THE CONTRACTIOR SYMALL TAKE ALL RECESSARY PRECAUTIONS TO ANOD SERVICE DISCUSION TO THESE FACILITIES. THE CONTRACTOR SYMALL AND CONTRACT ELECTRIC AND TELEPHONE, AND ALL OTHER APPROPRIES APPROR TO EXCAVATION AT THIS SITE.

2. PROR TO EXCAVATION, A UTILITY MARK OUT SYMAL BE ODOR TO LOCATE EDSTINE UNDERGROUNG UTILITIES. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED OUT PROR TO ANY EXCAVATION WORK BEING PERFORMED. PHOTOS SYMAL BE TAKEN OF ALL UNDERGROUND WORK AND GIVEN TO THE CARBER DURING THE SITE'S HANDOFT.

3. ALL TREDICTIONS OND EXCAVATION WITHIN EXISTING COMPOUNDS MUST BE PERFORMED BY HAND IN ACCORDANCE WITH THE OWNER'S SPECIFICATIONS. ANY OTHER METHODS OF DIGGING 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 COHOUT (600V OR MORE) SHALL HAVE A MINIMUM BURAL DEPTH OF 36".

UNDERGROUND CONDUIT SHALL BE EVOLSED IN REINFORCED CONCRETE IN AREAS OF VEHICLE TRAFFIC. CONCRETE ENASSEMENT SHALL BE SHAMILUM ALL REVINDE AND CONTINUES.

ALL BURSED CONDUIT SHALL BE IDENTIFIED WITH ELECTRICAL MARKER TAPE. TAPE SHALL BE PLACED 12" ABOVE

CONDUIT FOR EASY IDENTIFICATION.

LILIZ EQUIPMENT

1. THE MAIN CRICUIT BREAKER SHALL BE RATED FOR STANDARD ALC. RATING HIGHER THAN INCOMING EQUIPMENT ALC.

2. ALL EQUIPMENT SHALL BE BRACED FOR STANDARD ALC. RATING HIGHER THAN INCOMING FROM UTILITY CO.

3. THE CONTRACTOR SHALL PROVIDE AN ITEMAZED CERTIFICATION TO THE CARRIER OF ALL EQUIPMENT AND RELATED HARDMARE, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HIS OF THE NOTICE TO PROCEED.

ALL ELECTRONIC CONCENTS SHALL BE CHEARY LARGED, WHILE PASSAGED BY ACTUL LARGES, ALL EQUIPMENT SHALL BY ALL EXPLORMENTS.

THE NOTICE TO PROCEED.

ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH ITS VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACTY RATING AND BRANCH CIRCUIT ID INJURIEDS (I.E., PANELBOARD AND CIRCUIT ID'S).

METAL RECEPTORALE, SWITCH AND DEVICE BOYES SHALL BE CALLWARZED, EPOXY-COATED OR NON-CORROBING; SHALL MEET OR EXCEED UL 514A AND NEIAA OS 1; AND BE RATED NEIAA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (MP OR BETTER) OUTDOORS.

NONMETALIAL RECEPTAGE SWITCH AND DEVICE BOYES SHALL MEET OR EXCEED NEIAA OS 2, AND BE RATED NEIAA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (MP OR BETTER) DUTDOORS.

11.13 TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)

1. TVSS DEVICES FOR AC POWER SHALL BE INSTALLED IN ALL EXISTING FACILITIES THAT ARE MISSING TVSS DEVICES OR HAVE UNSUITABLE TVSS DEVICES THE AC POWER COMMON MODE SURGE SUPPRESSOR SHALL BE CONNECTED TO THE COMMERCIAL POWER INPUT SIDE

THE ACTIVITY COMMENT WOULD SUPPRESSOR SHALL BE CONNECTED TO THE COMMENCIAL POWER INFO SUC-OF THE MANUAL TRANSFER SMITCH.

IN MARKETS WITH LIGHTNING ZONE > OR = TO 4, RF TVSS 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

A TI TRANSPORT TYSS DEVICE SHALL BE INSTALLED AT ALL SITES BETWEEN THE NIU AND THE BTS.

13 — RE AND TOWER APPURTEMENCE INSTALLATION RELATED HOTES
13.1 CONVOL CARE REQUIREMENTS:
13.1 CONVOL PROMDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR RECEMING, INSTALLING, TESTING, AND
ADJUSTING ANTENIA CABLES FROM THE ANTENIA TO THE CONNECTIONS AT THE BASE TRANSJUSSION SYSTEM (BITS).
THIS SHALL INCLIDE ALL EQUIPMENT SHOWN OR REQUIRED FOR A COMPLETE OPERATING SYSTEM. ANTENIA, ANTENIA
CABLES, CONNECTIORS, AND FITTING SHALL BE THIRD PARTY FURNISHED COMPONENTS AS SHOWN ON THE BILL OF CABLE HANGERS SHALL BE INSTALLED AT A MAXIMUM 4' SPACING.

COADAL CABLE LENGTHS SHALL BE FIELD MEASURED. INSTALLER SHALL HOTIFY CARRIER PRIOR TO PURCHASE OF CABLE OF THE OMERALL LENGTH REQUIRED.

COADAL CABLE TYPE AND DUMETER SHALL BE VERRIED WITH CARRIER.

COADAL CABLE SHALL BE LENGELD IN ACCORDANCE WITH CARRIER.

COADAL CABLE SHALL BE LENGELD IN A COORDANCE WITH CARRIER ELECTRICAL MATERIALS AND METHODS SPECIFICATIONS. ALL MAIN CABLES WILL BE COLOR CODED AT FOUR LOCATIONS: A) AT AMTERNAR PROR TO JUMPER, B) AT THE BOTTOM OF THE TOWAR, C) EXTEROR PART OF THE WARD GUIDE ENTRY PORT (AT THE SHELTER/CABINET WALL), D) INTERIOR OF THE SHELTER/CABINET.

PROMDE AT LEAST 6' OF SLACK IN THE MAIN COADAL CABLES AT THE ANTERNA END TO PROMDE FOR FUTURE. CONNECTOR REPLACEMENT.

INSTALL CONNECTOR REPLACEMENT.

INSTALL CONNECTOR REPLACEMENT.

INSTALL CONNECTOR REPLACEMENT.

INSTALL CONNECTOR TO CADALU CABLE AT BOTH ENDS (ANTERNA END AND BTS LOCATION).

UPON SUCCESSFUL COMPLETION OF THE SWEEP TEST, THE CONTRACTOR SHALL PROVIDE A WARTHERTIGHT SEAL ON THE COAX CABLES.

WEATHERTIGHT SEAL ON THE COAX CABLES.

IN CONDUIT

MATCHING APPEARANCE OF EDSTING CONSTRUCTION.

11.6. CONDUCTORS

1. USE 88% CONDUCTIVITY COPPER WITH TYPE WHHN -2 INSULATION, 600 VOLT, COLOR COORD, USE SOUD CONDUCTORS FOR MRE UP TO AND INSULATION, 600 VOLT, COLOR COORD, USE SOUD CONDUCTORS FOR MRE UP TO AND INSULATION OF A MICH SHAPPED CONDUCTORS FOR WHE LARGER THAN MO. 8 AND, USE PRESSURE—THYE INSULATED THIST—ON CONNECTORS FOR NO. 10 AND SMALLER, SOLDERLESS MECHANICAL TERMINAL LUOS FOR NO. 8 AND AND LARGER, ALUMINUM CONDUCTORS SHALL NOT BE USED.

2. NO BY, NO OR ROMEX CABLE SHALL BE PERMITTED.

3. EACH BIOL OF EVERY POWER, GROUNDING AND IT CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR—COORD INSULATION OR ELECTRICAL TAP WITH IN PROTECTION, OR EQUAL).

3. EACH BIOL OF EVERY POWER, GROUNDING AND IT CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR—COORD INSULATION OR ELECTRICAL TAP WITH IN PROPERCION, OR EQUAL).

4. ALL THE WARPS SHALL BE CUT FLUSH BY PLASTIC ELECTRICAL TAP WITH IN PROPERCION, OR EQUAL).

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

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5. ALL CONDUIT SIZES SPECIFIED IN THIS DOCUMENT WERE DONE SO TAKING I ALL MAIN CABLES WILL BE GROUNDED AT: A) THE ANTENNA, 8) MIDDLE OF THE CABLE RUN IF OVER 200°, C) PRIOR TO ENTERING EQUIPMENT SHELTER/CABINET (WITHIN 1' OF ENTERY). GROUND STAND, THE CONNECTIONS SHALL BE IMPORTED FOR THE CONNECTION SHALL BE BROUGHT OUT IN THE DOWNMAND DIRECTION FROM ITS AS IDENTIFIED. GROUND PRITALS SHALL BE BROUGHT OUT IN THE DOWNMAND DIRECTION FROM ITS CONNECTION THE ANTENNA CABLE WITHOUT MY SHAPP BEHOS (MINIMUM RADIUS 10") AND CONNECTION SHALL BE MADE TO GROUNDING SYSTEM.

13.2 ANTENNA REQUIREMENTS:

1. AZIMUTHS ARE ORIENTED CLOCKWISE FROM TRUE NORTH.

2. CONTRACTOR SHALL VEREY ANTENNA TYPE, AZIMUTHS, AND DOWNTLIS WITH THE CARRIER PROR TO CONSTRUCTION. THE MINIMUM DISH RAD CENTER HEIGHT ABOVE THE ROOF SHALL BE 6'-8".

IN AIR OR CABLE TRAY

13.3 TOWER CLIMBING SAFETY GUIDELINES

1. TOWER CLIMBING SAFETY GUIDELINES

1. TOWER CLIMBING SAFETY GUIDELINES

2. CONTRACTOR MUST COMPLETED A NATE CERTIFIED CLIMBING TRAINING COURSE PER CONTRACT SPECIFICATIONS
PROOR TO WORK ON THIS STRUCTURES

2. CONTRACTOR MUST COMPLY WHY THE STANDARD "RF POWER AND LOCKOUT/TAGOUT" PROCEDURES BEFORE ALLOWING

CLINBERS ON THIS SINUCTURE.

3. TOWER CLINBERS WILL NOT BE ALLOWED TO ACCESS TOWER IN ADVERSE WEATHER CONDITIONS, INCLUDING HICH WINDS, LIGHTINING, RAIN, SHOW ICE OR DURING MOST TIME.

4. CONTRACTOR OR CLINBERS SHALL IMMEDIATELY REPORT ANY CLINBING EQUIPMENT OR CONDITIONS JUDGED INADEQUATE.

emergency numbers shall be posted on site and advertized to cumbers before the beginning of the

6. SAFETY MEETINGS SHALL TAKE PLACE EVERY MORNING BEFORE THE WORK DAY BEGINS.

20 - SITE SPECIFIC NOTES
20.1 GENERAL
1. CONSTRUCTION INCLUDES:

INSTALLATION OF COMMUNICATION FOUIPMENT

ANTENNAS AND MOUNT INSTALLATION ON STRUCTURE
THE PROFESSIONALS INVOLVED ON THIS PROJECT ARE AS FOLLOWS:

- ENGINEER:

- ANY SOLUTIONS, INC.

- 300 GROWN OAK CENTRE DRIVE

PHONE 407.260.0231

LEGEND AND ABBREVIATIONS

AND AUTHORITY HAVING JURISDICTION AMERICAN WIRE GAUGE AMERICAN WIRE GAUGE
BARE COPPER WIRE
BASE TRANSMISSION SYSTEM
COAN ISOLATED GROUND BAR, EXTERNAL
DUALETER
ELECTRICAL METALLIC TUBING
CONTROLLED GENERATOR GLOBAL POSITIONING SYSTEM MASTER ISOLATED GROUND BAR NATIONAL ELECTRIC CODE, LATEST ADOPTED EDITION POWER PROTECTION CABINET INTERNATIONAL \*



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 1 05/09/13 REVISED PER COMMENTS 0 10/31/12 ISSUED FOR PERMIT REV DATE DESCRIPTION



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THIS DOCUMENT, UNGESS EXPLICITLY ACREED TO BY AN SOLUTIONS IN
WHOTING, AN SOLUTIONS, IN COSCLAWS ALL LABULTY ASSOCIATED WITH
THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

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SHEET TITLE:

**SPECIFICATIONS** 

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SP2

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