

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

PERMIT NO. \_CC13-11

District 2

Rord 1/31/13

Applic	ant Nam	e and Job Nu	mber Crown Cast	le_SFL 63_1			
Job A	ddress a	nd Location_1	1237 NW 1 Avenue	/1242 N	. And news		
Descr	ription of \	Work Installi	ng cabinet and util	ity pole within rig	jht-of-way.		
Antici	pated sta	rt and end dat	tes of work6/1/1:	3 - 45 days		_	
	below (Code) Crown docum	grade, in acc . A letter by a Castle is red entation):	cordance with Sec	tion 25-100.1.B.3 i) is attached.	3 of the City of F	stall communication Fort Lauderdale Co e subsections and	de of Ordinances
	] C.1 Size)	☐ C.2 (Height)	(Front Yard)	(Corner Yard)		(Exist. Facility)	(Collector)
	require Notice one hu with So The pr dated A land associ	ements in Sec of the pendin undred fifty (1 ection 25-100 oposed site w 04/04/2013 scaping main ation is attach	tion 25-100.1 of th g application has be 50) feet of the pro- 1.E.5 of the Code. Which is on footnoted by the tenance commitmed to this applications applications.	e Code peen provided to posed site and t . by Crown Castle in ile with the City E ent letter from th ion. maintaining lands	all property owners the relevant hor accordance with a accordance with a adjacent properties adjacent properties and accordance.	ers abutting public ri ers abutting public ri emeowner associati th the approved Gra erty owner and rele apletely located in the	ghts-of-way within on, in accordance ffiti Mitigation Plan evant home owner
As an		zed represent	tative of Crown C	eastle, I certify u	nder oath that th	ne forgoing statem	ents are true and
Printe	ed Name	subscribed be	fore me this	day o	f May	Crown Castle Age	
(Seal	) ************************************	SHAN MY COMM EXPIRES:	E HAFNER USSION # EE831765 September 03, 2016	of Florida		(Do not w	rite below this line)
Conc	eptual ap	proval date_	by			_, Subject to the fo	llowing conditions:
1) A	detailed	I visual mitig	ation plan is requ	uired			
Final	Permit	approval dat	eby _		Final Inspecti	on dateb	ру
**Not	ify Engin	eering Permits	s Division 24 hours	3			

## **REVIEW CHECKLIST** FOR CABINETS IN RIGHTS-OF-WAY

Pe	∍r	mi	it	N	О.	C	<b>C1</b>	3		<u>11                                   </u>	
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X	<b>Application</b>	<b>Package</b>	complete - 3	3 sets	(JJ)
---	--------------------	----------------	--------------	--------	------

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 (J

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)	70" (168A	od above evost
X	Sum of H + W + L not greater than 124" and H not greater than 5'-8"	70 (1) 8 th	
X	Cabinet not in front yard	<u> </u>	
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	
X	Landscaping plan has been checked by Dave Genarro	-1/	1
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)	OK	
X	ADA requirements met	N/H	
X	Roadside recovery setback met (per Florida Green Book)	. // /	1
×	Cabinet/landscaping is at least one foot from sidewalk	~ / / / · · · · · · · · · · · · · · · ·	
X	Cabinet would not conflict with future sidewalk	OL	
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		4
	ADA requirements met – minimum clearances/slopes measured		4
	Roadside recovery setback measured		_
	Cabinet/landscaping (measured) is at least one foot from sidewalk		_
	Landscaping is per permit plans and effectively screens cabinet		4
	Cabinet would not conflict with future sidewalk		4
	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 64<sup>th</sup> 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:

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

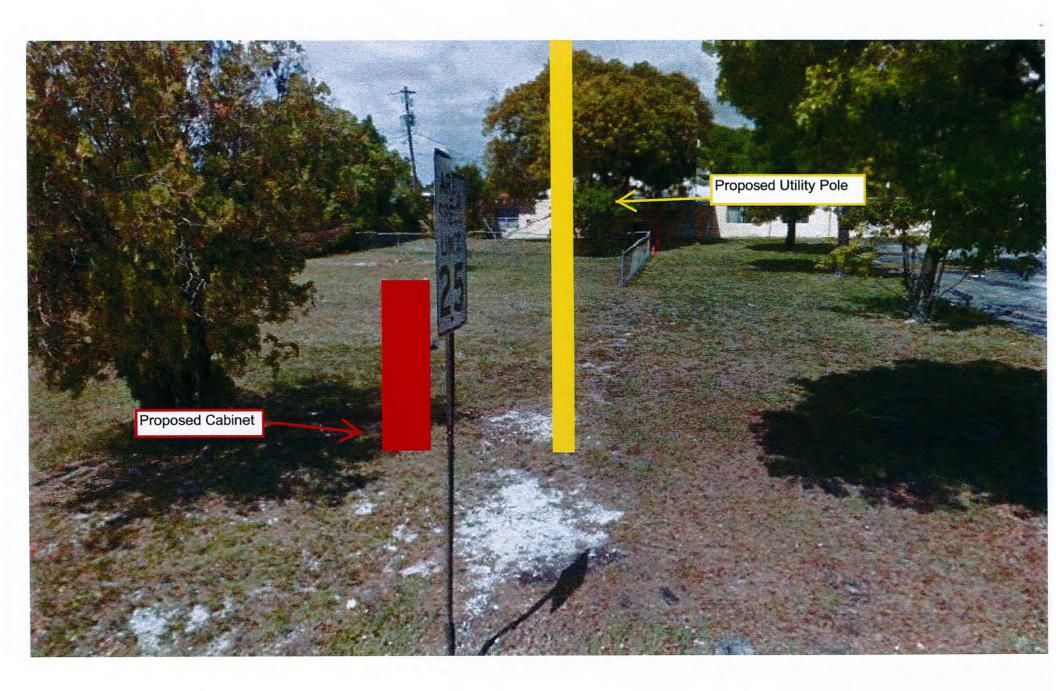
Southeastern Region

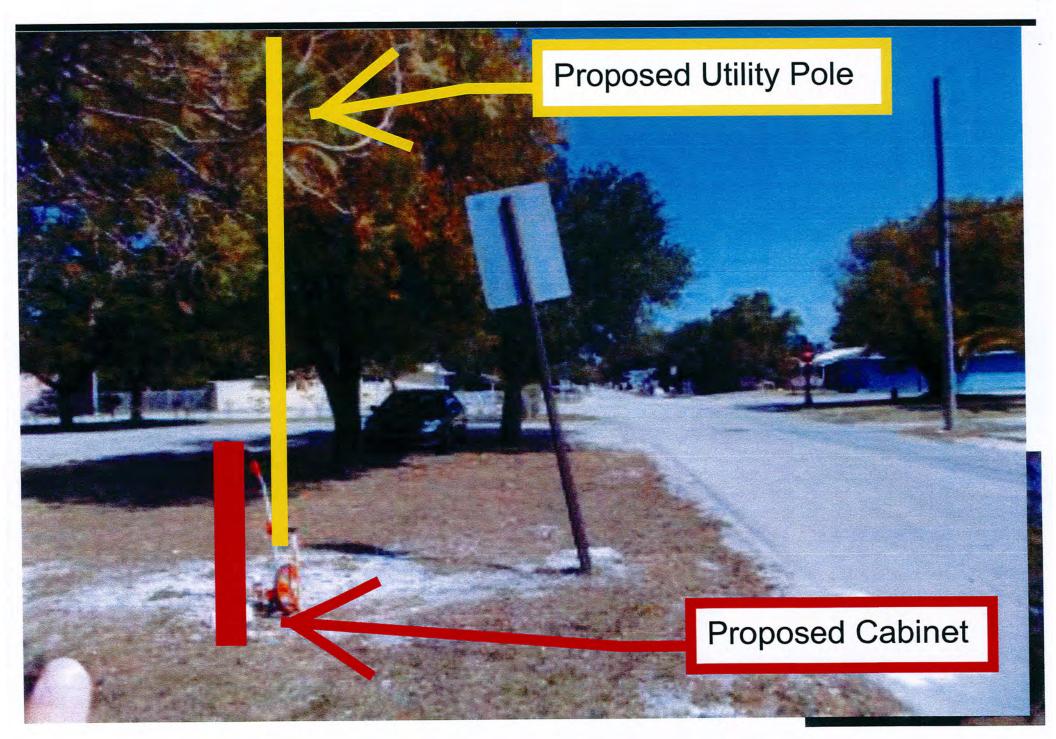
#### Crown Castle NG East Inc. Graffiti Mitigation Plan

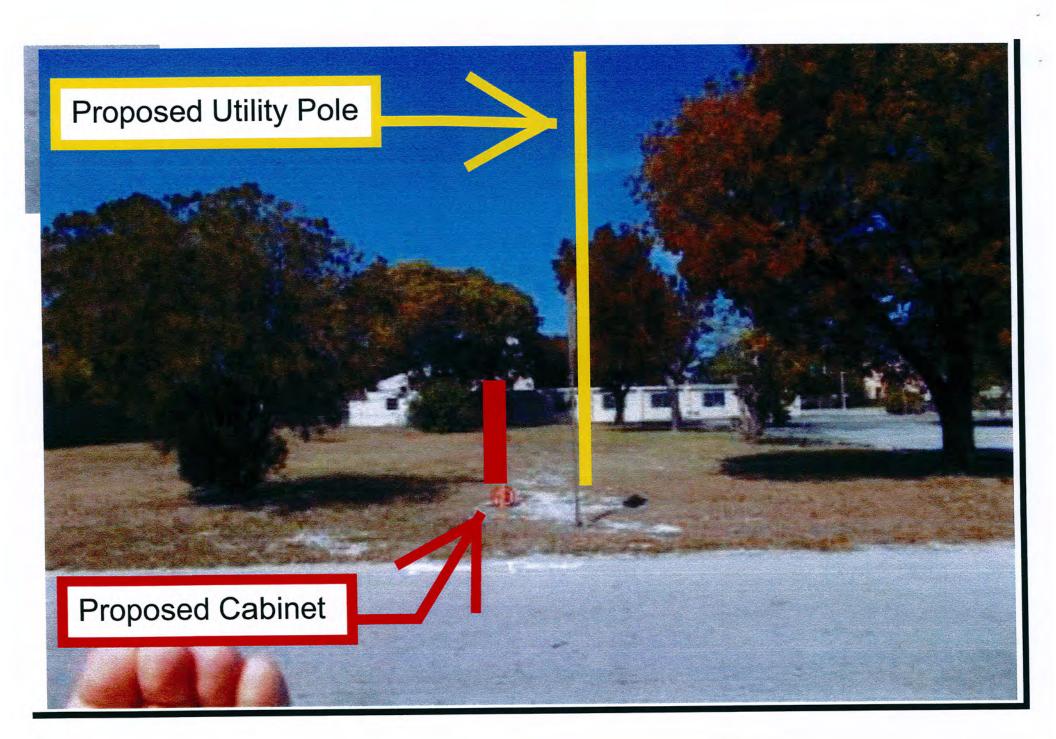
Pursuant to the City of Ft. Lauderdale's Communications Service Facility Right-of-Way Ordinance No. C-07-108, this Graffiti Mitigation Plan describes how Crown Castle NG East Inc. ("Crown Castle") will maintain communications service facilities governed by the Ordinance free from graffiti, including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

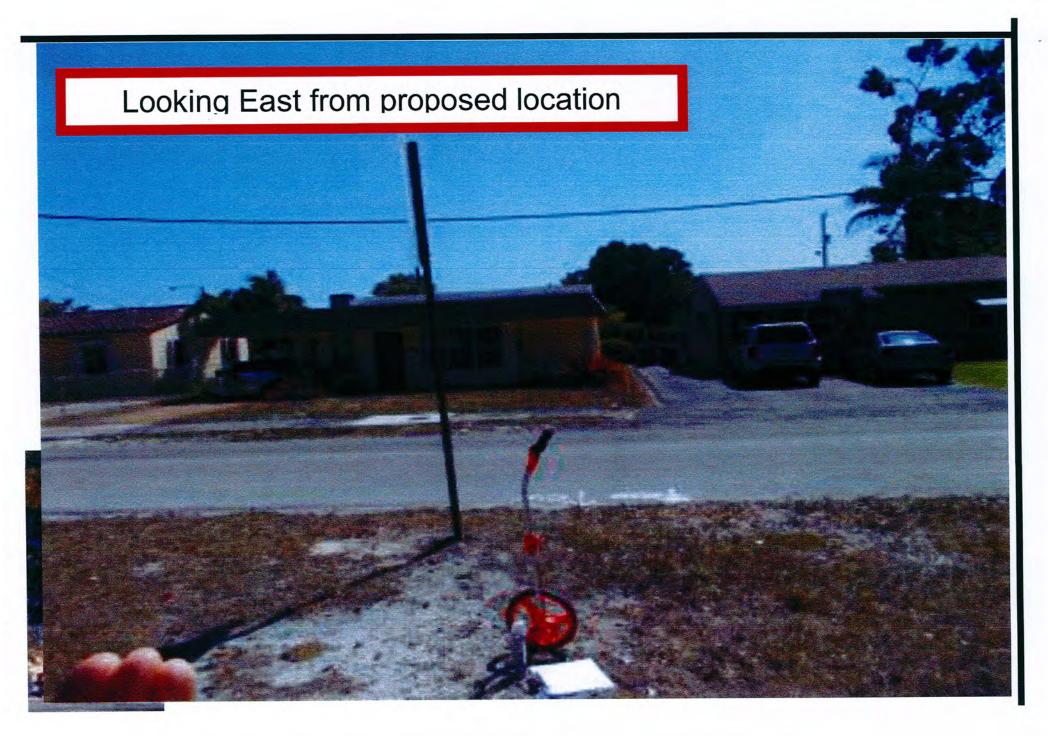
Crown Castle removes graffiti found on its equipment cabinets, including when graffiti is found by Crown Castle personnel or brought to Crown Castle's attention by other parties. Crown Castle removes graffiti with either mineral spirits or paint thinner. A rag is soaked with the solvent and rubbed lightly 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.

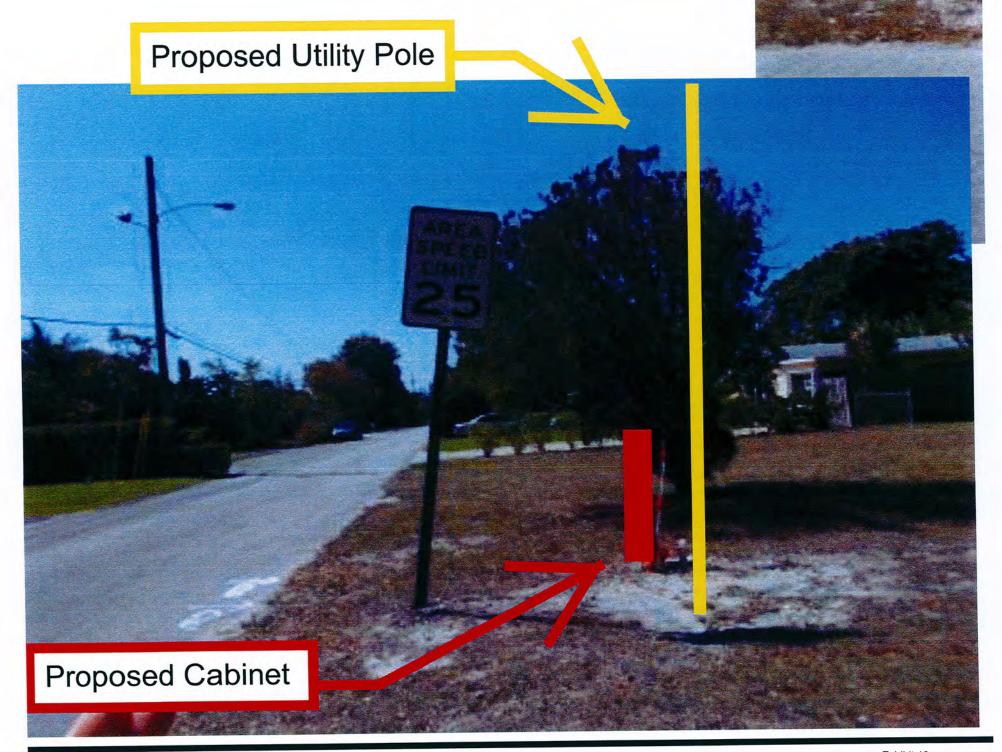












#### Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Dear Angela Letourneau,

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: 1237 NW 1<sup>st</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

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

Dear Annelia Joesph,

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: 1237 NW 1<sup>st</sup> Avenue 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 Darryl Weaver & Cassandra Thompson,

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: 1237 NW 1<sup>st</sup> Avenue Fort Lauderdale, Fl. 33311

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Armando Hernandez

Site Development Manager

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First Church of God of Fort Lauderdale Inc.,

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Sincerely,

Armando Hernandez

Site Development Manager

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

Dear Frank Perri,

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Armando Hernandez

Site Development Manager

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

Dear Jim Stull,

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Sincerely,

Armando Hernandez

Site Development Manager

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

Dear Joan & Richard Iacino,

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Sincerely,

Armando Hernandez

Site Development Manager

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

Dear Luis Gottberg & Marnie Hylton,

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Sincerely,

Armando Hernandez

Site Development Manager

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

South Middle River Civic Association,

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: 1237 NW 1<sup>st</sup> Avenue Fort Lauderdale, Fl. 33311

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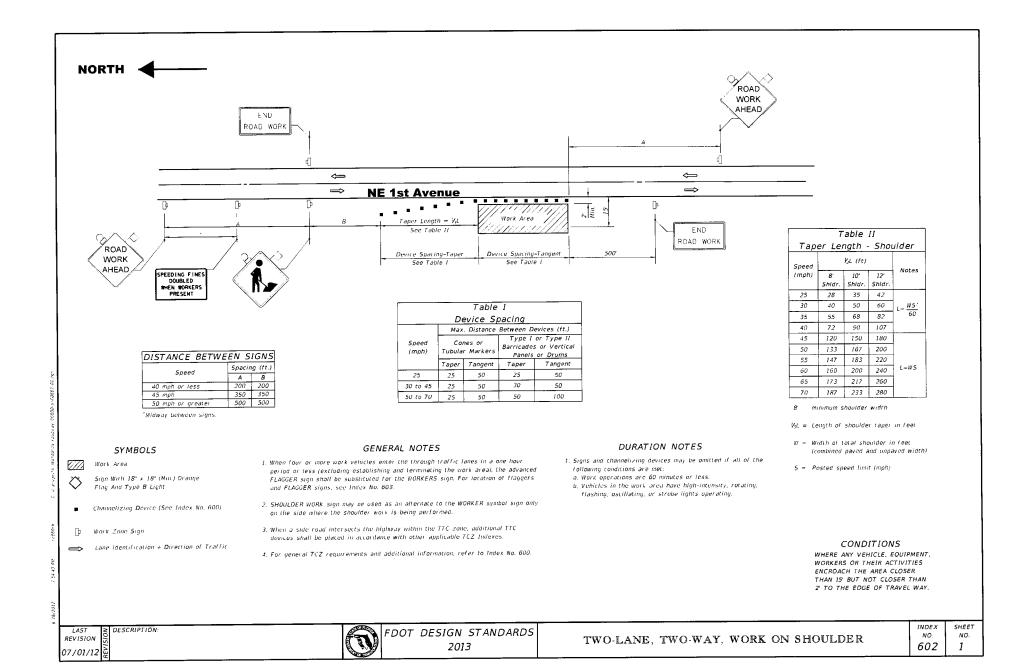
Armando Hernandez

Site Development Manager

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

DATE: <b>5/21/13</b>	
APPLICANT/ADDRESS/PHONE:  Crown Castle NG East, Inc.	PERMIT NO
8555 NW 64th Street Miami, Fl. 33166	(PROVIDED BY CITY AT TIME OF PERMIT APPLICATION)
813-447-0333	
	PROJECT NAME/ADDRESS: SFL 63_1
<ul> <li>This routing form should be complet "PERMIT").</li> </ul>	ted and submitted as an attachment to the above-referenced permit (hereinafte
<ul> <li>Obtaining signatures on this routing for only after issuance of the PERMIT, so</li> <li>This form is for MOT's within rights-of-industrial rights of the rights of the</li></ul>	orm does not constitute any approvals by the City. The MOT may be implemente ubject to satisfaction of all prerequisite conditions. f-way under City of Fort Lauderdale's jurisdiction. If the MOT or detour routes affect y 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
<ul> <li>If work is taking place in County or</li> </ul>	or FDOT R/W, an MOT permit is not required from the City. However, PERMI is asked to provide two weeks advance notice of any closures or detours to the
Specific dates and times requested for M	MOT implementation:
3egin	End
are not permitted in the right-of-way). F	as, if cranes will be used, etc. (staging and storage of materials/equipmer Please note if additional sheets have been attached for the description of
1237 NW 1st Avenue approximately	130' South of NE 13th Street. Work on shoulder.
work. 1237 NW 1st Avenue approximately ' Place new telecommunications cabi to new 45' wood utility pole.	inet and new 45' wood utility pole. Attach Crown Castle antenna
Place new telecommunications cabito new 45' wood utility pole.  Describe MOT, the number of lanes affeare necessary, if flagmen will be provide any other special considerations related the description of MOT.	inet and new 45' wood utility pole. Attach Crown Castle antenna
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Rev. 6-8-12





CLIENT :

**CROWN CASTLE SFL63\_1** 

ADDRESS:

CLIENT SITE ID#:

1237 NW 1ST AVENUE FORT LAUDERDALE, FLORIDA 33311

SITE TYPE:

**NEW WOOD POLE** 

#### PROPERTY INFORMATION

SITE COORDINATES: 26.1418 -80.14349\*

PROPERTY OWNER: ADDRESS:

CITY OF FORT LAUDERDALE

CROWN CASTLE 8555 NW 64TH STREET

MIAMI, FL 33166

PROJECT TEAM

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

ENGINEERING FIRM: CONTACT:

PHONE:

DESIGN CRITERIA:

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

FLORIDA COA#:

#### 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. SEISMIC LOAD DOES NOT GOVERN THIS DESIGN.

**DRAWING** SHI **INDEX** 

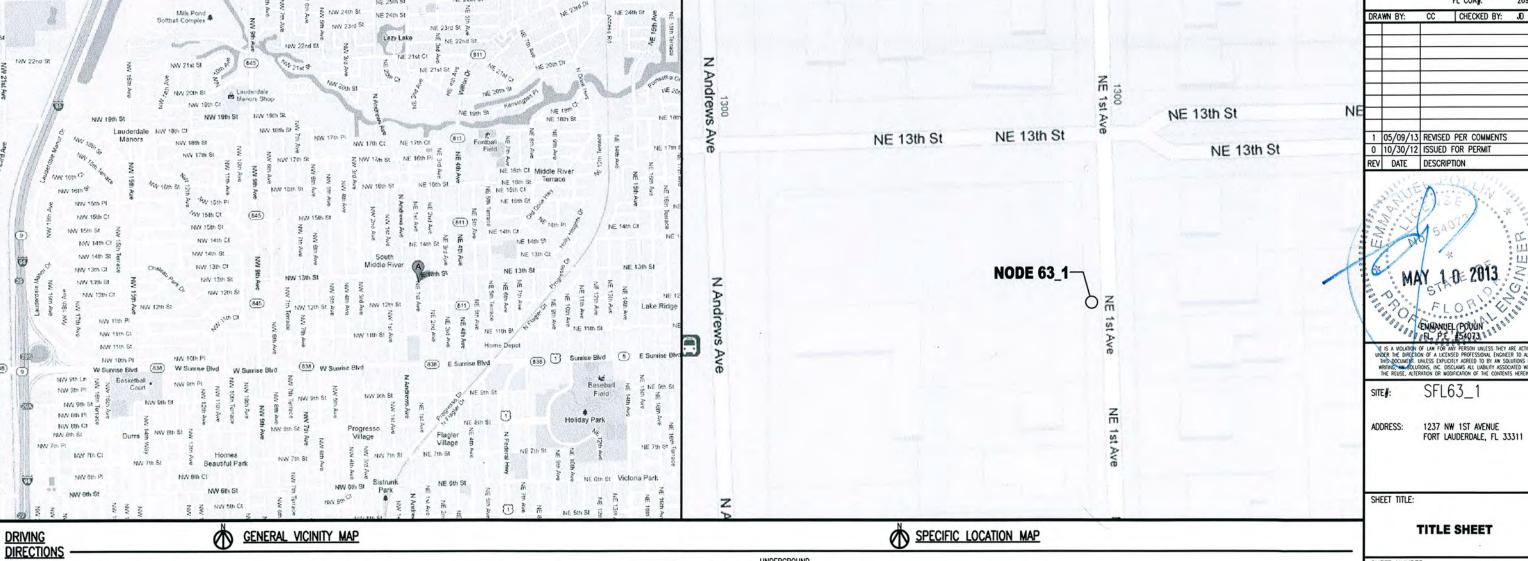
EET	SHEET DESCRIPTION	REV
T1	TITLE SHEET	1
C1	SITE PLAN	1
1.1	SITE PLAN ENLARGEMENT	1
1.2	LANDSCAPE MITIGATION PLAN	1
C2	ELEVATION	1
C3	DETAILS	1
C4	DETAILS	1
P1	SPECIFICATIONS	1
P2	SPECIFICATIONS	1

<b>APPROVALS</b>

DATE:

INTERNATIONAL \*

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



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 E/FL-91 SOUTH. TURN LEFT ONTO NW 2ND AVENUE. TAKE THE RAMP ON THE LEFT

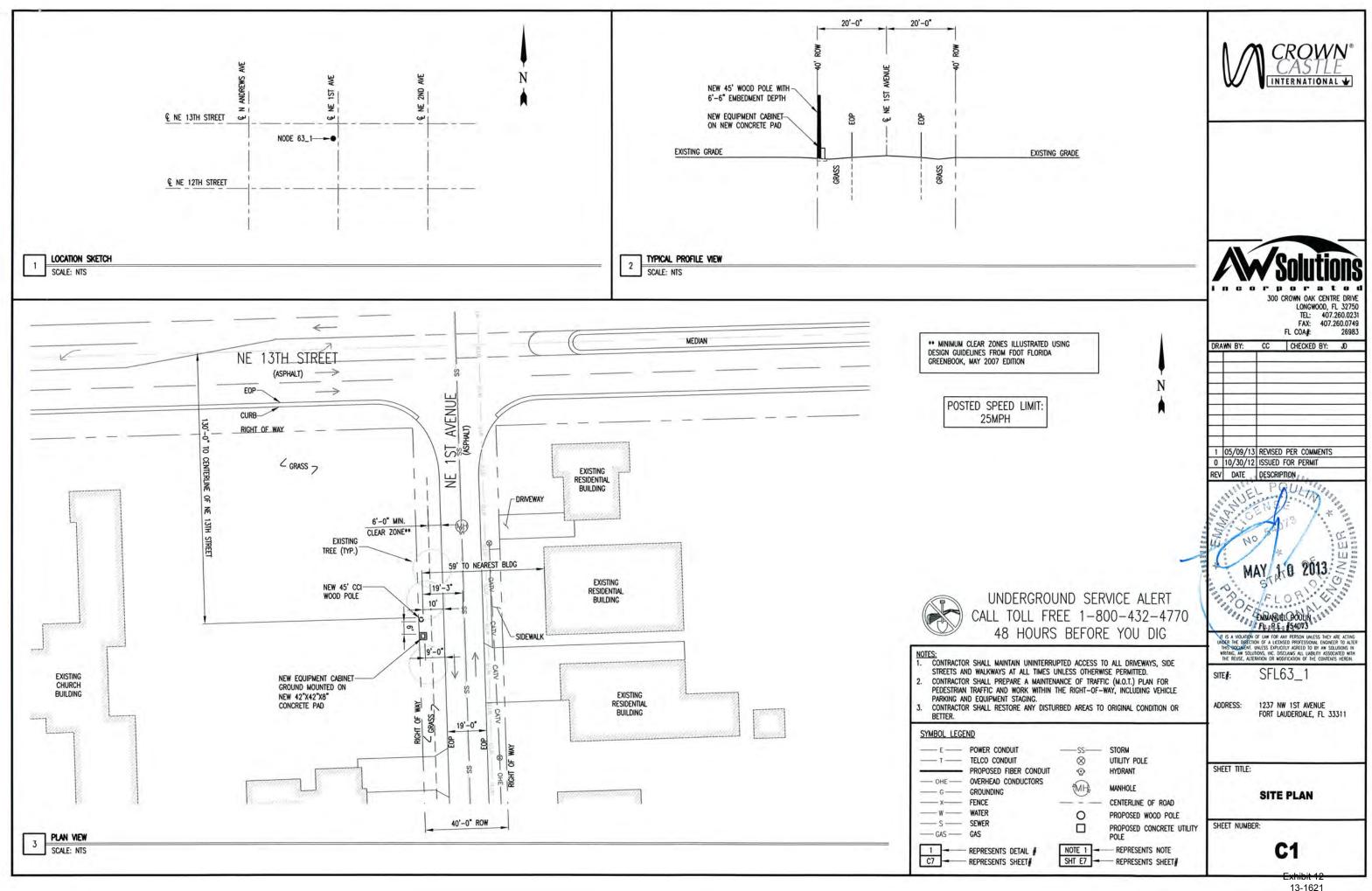
ONTO 1-95 NORTH. TAKE EXIT 29A TO MERGE ONTO FL-838 E/W SUNRISE BLVD. TURN LEFT ONTO N ANDREWS AVENUE. TAKE THE 3RD RIGHT ONTO NE 13TH STREET. TAKE THE 1ST RIGHT ONTO NE 1ST AVENUE. DESTINATION WILL BE ON THE RIGHT.

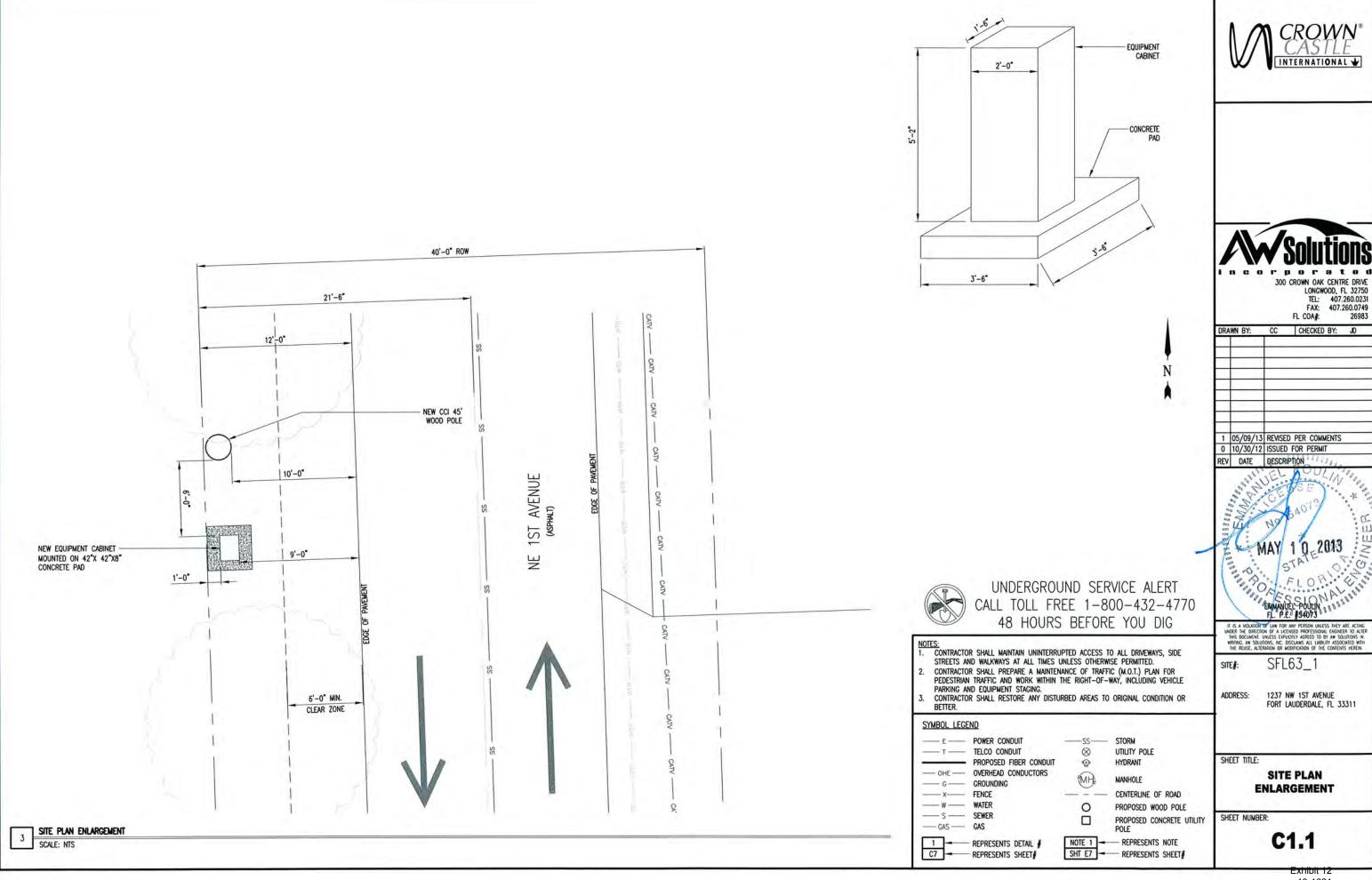


UNDERGROUND SERVICE ALERT CALL TOLL FREE 1-800-432-4770 **48 HOURS BEFORE**  SHEET NUMBER:

**T1** 

13-1621



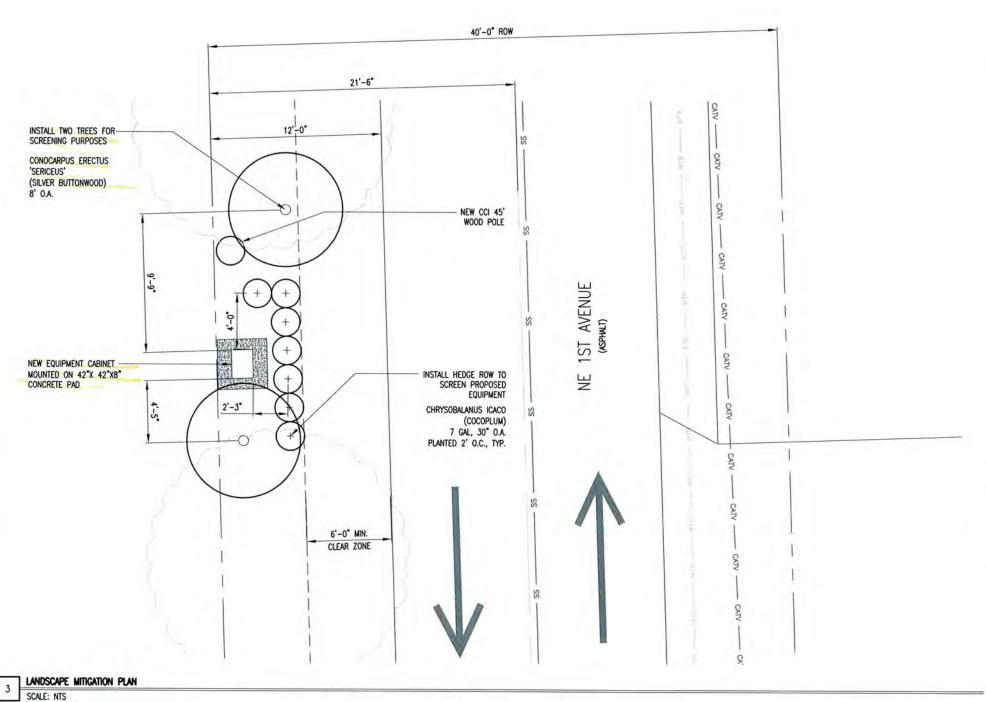


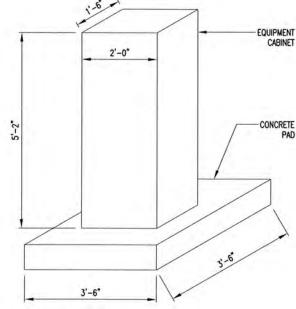
13-1621 Page 25 of 28

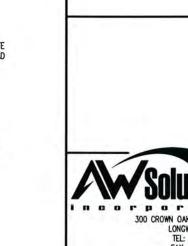
- 1. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER, AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS" PART I, 1963, AND PART 11, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, FLORIDA
- 2. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY 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.
- ALL MUICH TO BE "FLORAMUICH" MELALEUCA MUICH.
  ALL TREES TO BE STAKED IN THE FIELD WITH APPROVED NURSERY STANDARD METHODS.
- TREES/PALMS SHALL BE INSTALLED A MIN. OF 3' FROM UNDERGROUND UTILITIES.







LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 FL COA#: CC CHECKED BY: JO

INTERNATIONAL &

1 05/09/13 REVISED PER COMMENTS

0 10/30/12 ISSUED FOR PERMIT REV DATE DESCRIPTION

MAY 1 0 2013 EMMANUEL POOLIN

IT IS A VOLATION OF LAW FOR ANY PERSON UNICSS THEY ARE ACTING UNDER THE DIRECTION OF A LECUSED PROFESSIONAL ENGINEER TO ALTE MHS DOCUMENT LURESS EPICHLY ASSESS TO BY AM SQUIFONS, INC. DECLAMS ALL LURLITY ASSOCIATION WITH THE REISE, ALLERANDO ARE MODIFICATION OF THE CONTENTS FEREN.

SFL63\_1 SITE#:

> 1237 NW 1ST AVENUE FORT LAUDERDALE, FL 33311

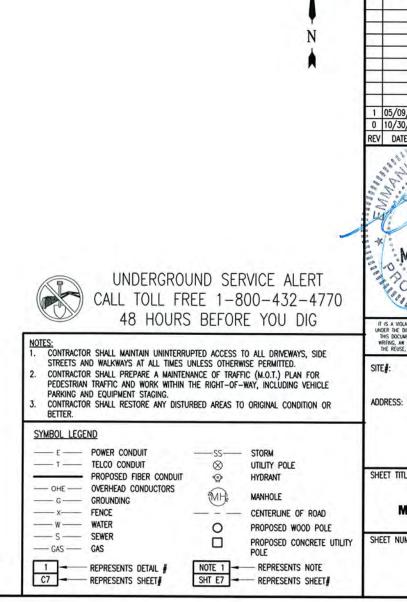
SHEET TITLE:

LANDSCAPE **MITIGATION PLAN** 

SHEET NUMBER:

C1.2

13-1621 Page 26 of 28



- GENERAL PROVISIONS

   CONTRACT OFERVIEW
  THE INTENTION OF THE DOCUMENTS IS TO SHOW THE COMPLETE INSTALLATION AND TO INCLUDE ALL LABOR AND
  MATERIALS REASONABLY NECESSARY, WHETHER OR NOT SPECIFICALLY INDICATED, FOR THE PROPER EXECUTION AND
  COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT. THE WITCHT OF THIS DOCUMENT IS NOT TO DESIGNATE
  THE MEANS AND METHODS OF PROCEDURE OF THE WORK. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL
  MATERIALS AND METHODS OF PROCEDURE OF THE WORK. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, HETHODS, 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
- AND SUPPLEMENTS:

   FBC FLORIDA BUILDING CODE 2010

   ASC AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS

   IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
  - NEC NATIONAL FLECTRICAL COOF
  - NEC MATIONAL ELECTRICAL LOUR MANUFACTURERS ASSOCIATION U. UNDERWRITERS LABORATORIES NSPC MATIONAL STANDARD PLUMBING CODE INC INTERNATIONAL INCENNICAL CODE
- INC. INTERNATIONAL MECHANICAL CODE
  NEPA NATIONAL FIRE PROTECTION ASSOCIATION
  OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
  ONSYTM TELECOMAUNICATIONS INVOSTRY ASSOCIATION 222-G STANDARD
  ALL GOVERNING STATE, COUNTY AND LOCAL COORS AND ORDINANCES
  E MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE
  INVIDENCIATION.
- THE EMPIREERING DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT.

  INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE EMPIREERING DRAWINGS DUE TO CHANGES
  AFFECTING EXISTING ELECTRICAL OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO A PART OF THIS CONTRACT.

  INSPECT THOSE AREAS AND ASCERTAIN WHAT IS NEEDED TO DO THAT WORK IN ACCORDANCE WITH THE CONTRACT.
- INSPECT THOSE AREA AND ASCENTIAN WHAT IS NEEDED TO DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREDMENTS AT NO ADDITIONAL COST TO THE OWNER.

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

  MINOR DEVATIONS 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.

  CONTENT WITHOUT A CHANGE ORDER.

  GENERAL CAN, STRUCTURA, LECTRICAL AND ANTENNA DRAWNOS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWNOS, ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE GENERAL.
- HE GENERAL NOTES CONTAINED HEREIN ARE PART OF THE PLANS AND SPECIFICATIONS, AND ARE TO BE COMPUED. WITH IN ALL RESPECTS. THE MOST RESTRICTIVEN FOR THE PLANS AND SPECIFICATIONS, AND ARE TO BE COMPUTED WITH IN ALL RESPECTS THE MOST RESTRICTIONS OF THE GENERAL MOTES MAY NOT APPLY TO EVERY SITE. THE CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE GENERAL MOTES IN ALL RESPECTS.

  ALL GENERAL MOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENT TO BE USED IN CONDITIONS WHICH ARE
- NOT SPECIFICALLY SHOWN OTHERWISE.

  REPRESENTATION OF TRUE NORTH OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING SHALL NOT BE USED TO IDENTIFY OR ESTREAUSH THE BEARNING OF THE TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY DRAWING AND ANY SURVEYOR'S MARKING AT THE STE FOR THE ESTABLISHMENT OF THE TRUE NORTH, AND SHALL NOTHEY THE ENGINEER PROOF TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VICTOR SHALL ROSTLY OF THE WORKING ORANINGS AND THE TRUE NORTH OFFENTATIONS OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATIONS OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATIONS OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATIONS OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWINGS AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWING AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWING AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWING AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWING AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWING AND THE TRUE NORTH OFFENTATION OF THE WORKING DRAWING AND THE WORK OF THE WORK OF
- THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND
- THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SAILED WORKUEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRATS, 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 SITE 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 THE CONTRACTOR THERE ASSESS TO INDEMNIFY AND HOLD THE DESIGN ENGINEER HABBLESS FROM ANY AND ALL LABBUTY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. THE CONTRACTOR SHALL BE RESPONDABLE FOR COMPLIANCE OF WORK ON THIS PROJECT. SHALL BE RESPONDABLE FOR COMPLIANCE OF WORK ON THIS PROJECT. SHALL BE RESPONDABLE FOR COMPLIANCE OF WORK ON THIS PROJECT. SHALL BE RESPONDABLE FOR COMPLIANCE OF WORK ON THIS PROJECT. SHALL BE RESPONDABLE FOR COMPLIANCE OF WORK ON THIS PROJECT.
- TO SAFETY PRECALITIONS AND PROGRAMS
- THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY OF THE SECURITY OF THE STE 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 INTERRUPTED. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOBS STEE DURING THE PERFORMANCE OF THIS CONTRACT TO AVOID DELAYS IN THE CONTRACT SCHEDULE OR OTHER WORK PERFORMED IN THE WORK CONTRACT TO AVOID DELAYS IN THE CONTRACT SCHEDULE OR OTHER WORK PERFORMED IN THE WORK CONTRACTOR SHALL MISSING AND SHALL ASD DE NOTIFIED OF A CHANGE IN THE CONSTRUCTION SCHEDULE.

- STARTING DATE OF THE WORK. THE OWNER SHALL ALSO BE NOTIFIED OF A CHANGE IN THE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL COUNTY WITH ALL REQUIRED PERMITS.

  EACH CONTRACTOR IS RESPONSIBLE FOR PULLING THE BULLING PERMIT AT THE LOCAL JURISDICTION AS THE CONTRACTOR OF RECORD, AND SHALL PROVIDE THE JURISDICTION WITH ALL PROVIDE THE SURSECTION WITH ALL PROVIDE FOR GRIBING TO OPERATE AS THE CONTRACTOR IN THIS JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ORGANIZING, AND INCREME THE COST OF ALL REQUIRED TERRITS, INSPECTIONS, CERTIFICATIONS, ETC. PROR TO BEGIN THE WORK.

  THE CONTRACTOR IS RESPONSIBLE FOR PROVIDEN DATE NOTICE TO THE BULLIUNG INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 48 HOURS OF NOTICE SHOULD BE GIVEN TO AUTHORITIES. AN EXTENSION IN THE CONTRACT SCHEDULE WILL NOT BE GRAPHED DUE TO DEJAY CAUSED BY INSPECTIONS.

  EACH CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYABIT OF CONTRACTOR LICENSES, BONDS AND INSURANCES. DOCUMENTATION SHALL BE PROVIDED TO THE OWNER.

  A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE CONFINING ACHIOY, AND BY LAW SHALL BE ANNABLE FOR INSPECTION AT ALL THIRES. IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS BULLTS CHANGES, REVISIONS, ADDOMED, OR CHANGES OF PLANS THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS BULLTS CHANGES, REVISIONS, ADDOMED, OR CHANGES OF PLANS THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS BULLTS CHANGES, REVISIONS, ADDOMED, OR CHANGES OF PLANS THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS BULLTS CHANGES, REVISIONS, ADDOMED, OR CHANGES OF PLANS THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS BULLTS CHANGES, REVISIONS, ADDOMED, OR CHANGES OF PLANS THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS BULLTS CHANGES, REVISIONS,
- ADDENDA, OR CHANGES ORDERS.
  THE CONTRACTOR IS TO PROMDE THE OWNER WITH A FULL SET OF RECORD DRAWINGS WITH ACTUAL DIMENSIONS, ROUTING AND GROUTIS UPON COMPLETION OF CONSTRUCTION.
  THE CONTRACTOR IS TO CONTACT BOTH LOCAL POWER AND TELEPHONE UTILITY COMPANIES BEFORE CONSTRUCTION.
- THE CONTRACTOR IS TO CONTACT BOTH LOCAL PUMBER AND TELEPHONE UTILITY COMPANIES BEFORE CONSTRUCTION BEGINS TO ORDER SERVICE, OSTERNA AND PLY LEFES ASSOCIATED WITH CONSTRUCTION, SOFEDULE INSTALLATION OF SERVICE, COORDINATE COMDUIT RUN/TERMINATION POINT AND OBTAIN MAY FIELD MATERIALS THAT MAY BE SUPPLIED BY THE CONTRACTORS.

  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 DURBING CONSTRUCTION TO AVOID DAMAGE, COLLAPSE, DISTORTION, MISALIGHMENT AND CONTRACTORS.
- ALTERATION OF ROOFING WARRANTIES.
  THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOLLET FACILITIES AS REQUIRED BY THE

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

  THE CONTRACTOR SHALL MONITOR ALL EXISTING STRUCTURES DURING CONSTRUCTION.

  THE CONTRACTOR SHALL MONITOR ALL EXISTING STRUCTURES DURING CONSTRUCTION.

  THE CONTRACTOR SHALL MONITOR THE FINAL DIMENSIONS OF ANY TYPE OF BEAM LAYOUT WITH THE FOOTPRINT OF THE NEW COURPMENT BY A MATERIALS.

  ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN SAFE CONDITIONS PRIOR TO INSTALLATIONS, AND SHALL BE OF THE BEST GRADE AND OF THE SHE MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY LOCATION AND IN A MARINER THAT WILL NOT OSSITRUCT THE FLOW OF OTHER WORK RELATED OR NOT TO THIS CONTRACT, MAY COUPMENT OR MATERIAL STORAGE MUST MEET ALL DESCRIPTIONS OF THE MANUFACTURERY DESCONMENDED SHALL INSPECT TRACONSISTS AND ALL MATERIALS OF THE MANUFACTURERY DESCONMENDED SHALL MONEYED TRACEMUST MEET ALL DESCRIPTIONS OF THE MANUFACTURERY DESCRIPTIONS SHALL MEETS THE MANUFACTURERY SHALL OF THE CONTRACT.
- RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL INSPECT THOROUGHLY ALL MATERIALS AND
- RECOMMENDATIONS OF THE MANUFACTURER. THE CONTINCTION STALL INSPECT THOROUGHLY ALL MATERIALS AND EQUIPMENT FOR TO FINAL INSTILLATION, DAMAGE EQUIPMENT OR MATERIALS SHALL NOT BE INSTALLED PERMANENTLY. ALL MATERIALS SHALL BE INSTALLED PER THE MANUFACTURERS' INSTRUCTIONS.

  EXCEPT FOR MANNING SICHS SUCH AS "NO TRESPASSING" AND SICHS THAT STATE OWNERSHIP AND EMERGENCY TELEPHONE NUMBERS, NO SON SHALL BE LOCATED ON THE TOWER.

  ALL EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB.
- 2. EXISTING CONDITIONS AND STRUCTURES.
  BEFORE BEGINNING WORK AT THE STIE, THE CONTRACTOR SHALL INSPECT THE EXISTING COMPOUND OR BUILDING AND DETERMINE THE EXIST OF EXISTING FINISHES, SPECIALTIES, EQUIPMENT AND OTHER ITEMS WHICH MUST BE REMOVED. DETERMINE THE EXTENT OF EXISTING FINISHES, SPECIATIES, EQUIPMENT AND OTHER ITEMS WHICH MUST BE REMOVED AND REINSTALLED IN ORDER TO PERFORM THE WORK UNDER THIS CONTROL. THE CONTROLOR MUST VERIFY ALL DIMERISONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMERISONS AND DIMERISONS MIDCATED ON THE CONSTRUCTION DEAMNISS. ALL DISCREPANCES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE
- WITH 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 ENCOUNTERED
- UNDERSTOOD THE CONSTRUCTION DOCUMENTS, VISITED THE SHE AND IS FAMILIAR WITH THE CONDITIONS ENCOUNTED.

  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 FULLY INFORMED HIMSELF PROR TO BIDDONG.

  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
  FALLIER OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL THE REQUIREMENTS OF THE CONTRACT
- DOCUMENTS.

  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 ACQUANT 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 DISTING UNDERGROUND UTILITIES HAVE NOT BEEN MERRIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED WITHIN THE LUINTS OF CONSTRUCTION AND ACCEPTS FULL RESPONSIBILITY FOR HAVI AND ALL DAMAGES WHICH MIGHT BE CAUSED THE CONTRACTOR FRALME TO LOCATE ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. SHOULD ANY ERROR OR INCONSISTENCY APPEAR IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR GEFORE PROCEEDING WITH THE WORK MIST MAKE MOTITION OF THE SAME TO THE ENGINEER AND OWNER FOR PROPER ADUSTMENT AND IN NO CASE PROCEED WITH THE WORK IN UNCERTAINTY OR WITH INSUFFICIENT DRAWINGS. THE CONTRACTOR AND BACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE CORDERING ANY MATERIALS OR DOING MAY WORK NO EXTRA CHARGE OR CONSIDERATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMERSIONS AND DIMERSIONS INDICATED ON THE CONSTRUCTION SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE CORDERATION SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE CORDERING ONLY MATERIALS OR DOING MAY WORK NO EXTRACTION THE CONSIDERATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMERSIONS AND DIMERSIONS INDICATED ON THE CONSTRUCTION SHALL BE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR ITS REPRESENTATION. OWNER OR ITS REPRESENTATIVE
- WHER OR ITS REPRESENTATIVE.

  WHER OR ITS REPRESENTATIVE.

  TRUCE, PRODUCT NAMES OR MANUFACTURER'S NAMES OR CATALOG NUMBERS AND INDICATIONS OF EXISTING PRODUCT TRYES SHOWN ON THE DRIWNINGS ARE BELEVED TO BE ACCURATE. IF THEY ARE DISCOVERED TO BE INACCURATE, NOTIFY ENGINEERS MALEDATELY AND DO NOT PROCEED WITHOUT INSTRUCTIONS.

  PROR TO STATING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGES WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGES TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE MINEDIATELY REPAIRED OR REPLACED TO THE SATISACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BE SATISACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BE SATISACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL THE ALL PRESENTATIONARY MEASURES AND EFFORTS TO PROTECT THE STRUCTURAL INTEGRITY OF EXISTING STRUCTURE, THE STRUCTURAL INTEGRITY OF EXISTING STRUCTURE, THE STRUCTURAL INTEGRITY AND STRUCTURES. WHEN WORK IS PERFORMED IN THE VOINTY OF EXISTING STRUCTURE, THE STRUCTURAL INTEGRITY AND STRUCTURE. THE STRUCTURAL INTEGRITY OF EXISTING STRUCTURE, THE STRUCTURAL OF THE CONTRACTOR SHALL PROPER TO STRUCTURE WITH THE CONTRACTOR SHALL PROPER TO STRUCTURE WITH THE CONTRACTOR SHALL PROPER TO STRUCTURE STRUCTURE. THE STRUCTURAL OF THE STRUCTUR

- NEW CONSTRUCTION AQUED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT A NOTED IN THE PLANS. THE CONTRACTOR SHALL PAINT ALL NEW ANTENNAS SHROUDS AND RELATED MOUNTING HARDWARE TO MATCH THE EXISTING ADJACENT SURFACES, THE CONTRACTOR SHALL NOT USE A METAL BASED PAINT FOR ANTIFORA SHROWS SHALL KIND HE EXISTING ADJACENT SURFACES, THE CONTRACTOR SHALL NOT USE A METAL BASED PAINT FOR ANTENNAS, ALL SHRACES, COLORIDAD OF MICHOLOR SHROWS OF THE PAINT REW SURFACES. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY WARY FROM THE LOCATIONS MOIGATED. HE PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EVACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE REACH MAY BE SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CASE IN EXECUTION ANY WORK, BEFORE YOU DICK, ORLL OR BUST, CALL THE UNDERGROUND SERVICES WHERE REQUIRED FOR THE PROPER DESCUTION OF THE WORK, SHALL BE REACHED AND ALL TIMES, WHERE REQUIRED FOR THE PROPER DESCUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY PERIOREDES. CONTRACTOR SHALL BE RELOCATED AS DIRECTED BY PERIOREDES. CONTRACTOR SHALL BE RELOCATED AS DIRECTED BY PERIOREDES. CONTRACTOR WHEN EXCLUSIVED FOR THE PROPER DESCUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY PERIOREDES. CONTRACTOR SHALL BE RELOCATED AND INTERFERE WITH THE DESCUTION OF THE WORK, THE CONTRACTOR IS TO REMOVE THE UTILITY AND CAP, PLUG OR OTHERWISE TERMINATE THE UTILITY AND CAP, PLUG OR OTHERWISE TERMINATE THE UTILITY AT A POINT WHERE IT NO LONGER CONTRACTION HIS WORK. THE UTILITY WORK SHALL BE DONE IN ACCOMBANCE WITH THE UTILITY CONTRACTS WHEN WORK THE UTILITY WORK SHALL BE DONE IN
- THE UTILITY AT A POINT WHERE IT IN LUNGER CONTROL WITH THE WARK. THE UTILITY WARK AND LEE DONE IT ACCORDANCE WITH THE UTILITY COMPANIES RECOMMENDATIONS AND PER LOCAL AUTHORITY HAVING JURISSICTION. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS.
- MANIAN FLOW FOR ALL EXSING UNITED.

  THE CONTROOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR DIMER'S REPRESENTATIVE.

  PROTECT RIFERSHED SURFACES INCLUDING JAMES AND HEADS OF OPENINSS USED AS PASSAGEMAN'S THROUGH WHICH
- EQUIPMENT AND MATERIALS MILL PASS.

  PROVIDE PROTECTION FOR EQUIPMENT ROOM SURFACES PROOR TO ALLOWING EQUIPMENT OR MATERIALS TO BE MOVED. voices such surfaces.

  More such surfaces provided in the expension of accommon comment of anteriors to be incomediated. The comment of anteriors in the income surfaces and surfaces provided 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 inadedately, and then promptly make all replacements and repairs to the satesaction 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 construction 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.
- 1.3 ACCESS

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

  2. COORDINATE WITH SITE OWNER CONSTRUCTION SCHEDULE & SITE ACCESS. ENSURE THAT THE OWNER OF PARENT
- A LIST OF WORKERS INVOLVED IN THIS PROJECT SHALL BE PROVIDED TO THE PROPERTY OWNER OR ITS THE CONTRACTOR SHALL COORDINATE ALL SPECIAL CONSIDERATIONS OF CONSTRUCTION SUCH AS NOISY OPERATION
- THE CONTRACTOR SHALL COORDINATE ALL SPECIAL CONSIDERATIONS OF CONSTRUCTION SUCH AS NOSY OPERATION, WITERRUITION OF APY INCENDADLA MOVING LECTRICAL SHOULD SELECTRICAL SHOULD STORAGE, STAGING AFEA, CRANE LIFTS WITH THE OWNER PROP TO THE START OF THE WORK.

  CONTRACTOR SHALL COORDINATE WITH AN OWNER REPRESENTATIONE, THE TEMPORARY REMOVAL OF FENCE, LIMOSCAPING & NN'E EXPECTED DAMAGE TO ACCESS ROAD OR ADJACENT REPAIR OF PROPERTY PROR TO COMMENCING THE WORK.

  THE CONTRACTOR SHALL COORDINATE WORK HOURS & STAGEN, AREAS WITH OWNER.

  CONTRACTOR SHALL COORDINATE WORK HOURS & STAGEN, AREAS WITH OWNER.

  CONTRACTOR SHALL COORDINATE WORK HOURS & STAGEN, AREAS WITH OWNER.
- 1.4 STE MANTENANCE 1. REMOVE STANING OR REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZAROOUS
- FEMOVE STIMINING OR REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS ACCUMULATIONS OF DEBRIS PROMPTLY, AT LEAST DALY. CONFINE DUST PRODUCING OPERATIONS DURING CUTTING, DRILLING, PANTING AND FINISHING. THERE SHOULD BE NO OVER SPRAYING PAINT IN PARRING 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 AGRED UPON WITH THE OWNER. NOISE SHOULD BE KEPT TO A MINIMUM THROUGHOUT CONSTRUCTION.
  NOISE AND EXISTING BUILDING STRUCTURE WIRRATION GENERATED BY CONSTRUCTION PROCEDURES, EQUIPMENT, TOOL AND OPERATIONS ARE TO BE KEPT TO A PROCEDURES AND CAN BE HEARD, COMPINET TO HOURS BEFORE 7 A.M. AND AFTER 6 P.M. MONDAY THROUGH FRIDAY OR ALL SPECED TO BY PHILIP OF COMPINET.
- UNAVOIDABLE, AND CAN BE HEARD, COMPINE TO HOURS BEFORE 7 AM. AND AFTER 6 P.M. MONDAY THROUGH FRIDAY OR AS ARRED TO BY BUILDING OWNER.

  THE CONTRACTOR IS TO PROMDE 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 MANTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS, RELOVE AND DESPOSE LEGALLY OFF SITE ALL RUBBISH, WASTE MATERIAS, LITTER, AND ALL FORCION SUBSTANCES, ROMOVE PETROCHEMIOL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EYEM-TEXTURED
- SURFACE.
  AT PROJECT COMPLETION, REMOVE TEMPORARY SERVICES, CONSTRUCTION EQUIPMENT, TOOLS AND FACILITIES, MOCKUPS,
  AT PROJECT COMPLETION, REMOVE TEMPORARY SERVICES, CONSTRUCTION EQUIPMENT, TOOLS AND FACILITIES, MOCKUPS,
  AT PROJECT COMPLETION, REMOVE TEMPORARY SERVICES, CONSTRUCTION EQUIPMENT, TOOLS AND FACILITIES. AT PROJECT COMPLETION, REMOVE TEMPORARY SERVICES, CONSTRUCTION EQUIPMENT, TOOLS AND FACILITIES, MOCKINS, TEMPORARY STRUCTURES, SURPOURS MATERIALS, DEERS, AND KRIBBSH FROM BULLIONS OWNERS PROPERTY, DUT SITE IN NEAT, ORDERLY CONDITION, REMY FOR USE. LEAVE ROOF AREAS, PIPE SPACES AND OTHER SPACES CLEAN AND FREE FROM DEBRIS ON A DALY BASIS.

  THE SITE AND/OR BULLIONS SECURITY SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION IN ORDER TO PREVIOTAL UNAUTHORIZED PERSONS FROM ENTERING THE PREMISS. EUSTING AND NEW EQUIPMENT AND MATERIALS REMAIN THE CONTROLORNER OF SECONSIBILITY AT ALL TIME DURING CONSTRUCTION.

  THE TOWART'S INGRESS AND EGRESS OF THE SITE AND/OR BULLIONG SHALL BE MAINTAINED THROUGHOUT
- Construction.

  The contractor shall take all measure necessary to maintain pollution control, comply with all governing regulation pertaining to empromedital protection, and promptly remove all debris and accumulation of materials resulting from the work.
- TEMPORARY FACULTIES
  THE CONTRACTOR SHALL CONSIDER THAT WATER, POWER AND LICHT ARE NOT AVAILABLE AT THIS SITE, WHEN
  PERMANENT POWER IS ESTABLISHED, ALL CONTRACTORS MAY USE THE SERVICE CONNECTION FOR PRODUCTION WORK
  ONLY, PROVIDED THAT ELECTRICAL CORDS AND CONNECTIONS ARE FURNISHED BY THE CONTRACTORS AND ARE.
- INNECTED AND PROPERLY STORED DURING NON-WORKING HOURS. SIC CONTRACTOR IS RESPONSIBLE TO PROMOE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE IOPERTY OWNER OR GOVERNING AGENCY.

#### DEMOLITION AND EXISTING STRUCTURAL ALTERATION

- 2. LOBBOURD SECOPES

  1. GENERAL CONTRACTOR IS TO DEMOUSH AND REMOVE FROM SITE (AND DISPOSE OF APPROPRIATELY) ALL ITEMS NOTED
  FOR DEMOURTOR IN THE ARCHITECTURAL, CML, ELECTRICAL AND/OR STRUCTURAL DRAWNISS, INCLUDING BELOW GRADE
  FOUNDATION AND STRUCTURES. CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF
- COMPANY AND STANCE OF THE CONTROL OF
- work.

  General Contractor is solely responsible for the shoring, bracing, providing lateral support, and for martaning the interrity of the existing structure during all phases of the demolition and construction and small provide, if required, signed a scaled shop drawings, by a registerd professional engineer, for the shoring of all malls, beams, surbs, roof josts, or other elevated structural tidles, that are

- HAVING THE SUPPORT BELOW NOTED FOR DEMOLITION.
- HAWNS THE SUPPORT BELOW NOTED FOR DEMOLITION.

  A MY DAMAGE DUE TO DEMOLITION, OR OTHER CONSTRUCTION ACTIVITIES, DONE TO MY EXISTING SURFACE TO REMAIN SHALL BE REPARED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.

  2.2 CUTTING & PATCHING.

  1. DO NOT DRILL OR CUT EXISTING FLOOR JUSTS, BEAMS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS SPECIFICALLY INDICATED. DRILL SLASS WHERE APPROVED. CORE DRILL CRICULAR OPENINGS THROUGH CONCRETE SUB. LINE DRILL FOR RECTANGULAR OPENINGS, MAKE OPENINGS OF PROPER SIZE FOR CONDUIT, DUTS, PIPES AND OTHER ITEMS PASSING THROUGH OPENINGS, MAKE ALL NEW HOLES OR OPENINGS BE WEATHER TIGHT OR FIRE SAFE AS
- PREPARE, SUBMIT AND RECEIVE APPROVAL OF SLEEVES AND OPENING STRUCTURE. SHOW EACH OPENING SLEEVES AND OPENINGS IN NEW CONSTRUCTION AND BEFORE DRILLING EXISTING STRUCTURE. SHOW EACH OPENING AND SLEEVE
- THE ENTIRE PROJECT.

  SEAL WATER TIGHT AND PROTECT WITH FIRE PROOFING MATERIALS NEW SLEEVES AND OPENINGS THROUGH ROOFS, FLOORS AND INVESTIGAT CHARSES AS REQUIRED BY CODE AND INJUSTRY STANDARDS. ALL FLOOR AND WALL PENETRATIONS SHALL BE SEALED WITH FIRE RETARDANT COMPOUND MEETING UL CAUSOAS.

- THE CONTRACTOR STALL PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLES.

  WHERE CUTTING OF EXISTING SURFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK NUMBER THIS CONTRACT AND A NEW FINISH IS NOT INDICATED, FILL RESULTING OPENINGS AND PATCH THE SURFACE AFTER DOING THE WORK AND FINISH TO MATCH ADJACENT EXISTING SURFACES. EXCEPT IN 1990C WHERE NO WORK UNDER THIS CONTRACT IS REQUIRED, ENCLOSE EXISTING AND NEW CONDUITS, DUCTS, PIPES AND SMILLAR TIEMS IN FURRING WHERE SUCH TIEMS PASS THROUGH FINISHED SPACES WHETHER OR NOT
- FURRING IS INDICATED. all concrete and masonry penetrations shall be done using rotary action only (no hammering action).
- ALL CONTROLE AND MASORIAT PEDELIVIARIS SAULT BE COME USING ROLLARY ACTION ONLY (NO PARAMETERS ACTION).

  \*\*CARSA ARE TO BE TAKEN PROOF TO DRILLING.

  \*\*CORE LOCATIONS IF REQUIRED SHALL BE CHOSEN SO AS TO AVOID CUTTING ANY REINFORCING BARS. FIRESTOP FLOOR
  OR WALL PENETRATION WITH TWO HOUR RATED SEALANT TO MEET UL CAUSO4S. PROVIDE WEATHERPROOFING OF ANY
- ROUP PEREINATIONS.

  REPAIR, PATCH, FINISH AND/OR REFINISH AS APPLICABLE TO MATCH ADJACENT EQISTING FINISHES THOSE EQISTING SURFACES DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT.

  WHERE CONDUITS, DUCTS, PIPES AND SIMILAR ITEMS ARE SHOW TO BE INSTALLED IN EQISTING WALLS OR PARTITIONS.
- where conduits, ducts, pipes and smillar fibers are show to be installed in Eusting Walls or partitions. Install, the fires and parton the walls or partitions to make the installation not descendible in the finished work.

  Where a new cutting is not scheduled, install new conduits and pipes in every case, and new duct where possible above edisting celling, reduce edisting celling are necessary. After installation of concalled work redistall, endowed edition and parton and reduced to malcolent unreduced cellings. Repair all metal. Surfaces that have been cut or damaged by removing any edisting rust and applying
- SITE WORK

  LOLARING AND GRUBBING

  CLEARING OF TREES AND VECETATION 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 UNIT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

  THE CONTRACTOR SHALL: PROTECT EXISTING TREES, VECETATION, LANDSCAPING MATERIALS AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING OR REMOVAL WHICH MOST BE DAMAGED BY CONSTRUCTION ACTIVITIES.

  TRIM EXISTING TREES AND VECETATION AS RECOMMENDED BY THE ARBORIST FOR PROTECTION DURING CONSTRUCTION.
- CLEAR AND GRUB STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND SITE IMPROVEMENT
- CLEAR AND GRUE STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND SITE IMP STEPP AND STOROPHE TOPSOIL.

  PROTECT TEMPORARILY ADJACENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS.
  MARK DESIGNATED TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.

  PROMDE TEMPORARY EROSON CONTROL SULTATION CONTROL AND DUST CONTROL.

  REMOVE AND LECALLY DISPOSE OF CLEARED MATERIALS.
- 3.2 EXCANDION AND BACKFUL

  1. ALL SUTTABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUTTABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATION APPROVED BY GOVERNING AGENCIES PROR TO
- INSTORM. USING FILL SHALL MEET SELECTED FILL STANDARDS AS DEFINED BY THE OWNER'S REPRESENTATIVE ON THE RAWMINGS OR GEOTECHIROL. REPORT RECOMMENDATIONS.

  \*\* EXCAMPION, TRENCHING, FILLING, COMPACTING AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS, ACCESS.
- ALL MATERIALS FOR SUBBASE, DRAINAGE FILL, BACK FILL AND GRAVEL FOR SLABS, PAVEMENT AND
- IMPROVEMENTS.

   ROCK EXCAVATION WITHOUT BLASTING.

   SUPPLY OF ADDITIONAL MATERIALS FROM OFF SITE AS REQUIRED.

   REMOVIAL AND LEGAL DISPOSAL OF EXCAVATED MATERIALS AS REQUIRED.

  FILL LAYERS THAT REQUIRE COMPACTION SHALL HAVE A MAXIMUM THECKNESS OF 6 INCHES.

  THE COMPACTING UNDER STRUCTURES, BUILDING SLABS, STEPS, PAVEMENT AND WALKWAYS SHALL BE 95% MAXIMUM DENSITY, ASTAU D-1557, TESTED IN EACH OF THE COMPACTING LAYERS AT EACH COMPACTING SITE, OR AT LEAST IN EACH COMPACTING DEP VAPES OF MATERIAL POLICY. each 100cu. Per yards of material volume. The compacting under lawns or unpaved areas shall be 85% maximum density, astiv D1557.

- THE COMPACTING UNDER LUMIS OR UNIPAKED AREAS SHALL BE 85% MAXIMUM DENSITY, ASTM D1557. 
  THE COMPACTIDE LUKERS SHALL NOT EXCEDE 8 INCHES. 
  AREAS THAT DO HOT MEET ASTM D-1557 REQUIREMENTS MUST BE RECOMPACTED AT THE CONTRACTOR'S EXPENSES. 
  AREAS THAT DO HOT MEET ASTM D-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 OSHA 
  REQUILITIONS FOR CONSTRUCTION. 
  WHERE UNSTABLE SOUL CONDITIONS EDST, LINE THE GRUBBED AREAS WITH GEOTEXTILE FABROC (MIRAFI 500X OR 
  APPROVED EXOUNDEDITY) PROHIBITED ON SITE. 
  ALL EXCAVATION ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIAL HORIZONTIAL, UNDISTURBED AND BE 
  FREE FROM LOOSE MATERIAL AND EXCESS GROUND WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE 
  PROMETED. FOR MEMBERS.
- ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH OTHER MECHANICALLY COMPACTED CRANILLAR 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
- THICKNESS.

  BUCK FILL SHALL USE APPROVED MATERIALS CONSISTING OF LOAM, SANDY CLAY, SAND, GRAVEL OR SOFT SHALE AND SHALL BE FREE FROM CLOOS OR STOKES OWER 2 ½".

  AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE AND BEFORE BACK FILLING, ALL EXCLUNITIONS SHALL BE CLEM OF UNSUITABLE MATERIALS SUCH AS VEGETATION, DEBRS, TRUSH AND ANY FOREIGN
- MATERIAL.

  3. DRAINGE

  1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINGS AWAY FROM BUILDING OR EQUIPMENT ON THE SITE AT ALL TIMES, SULT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES, ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSES.

  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMATERING AND THE MAINTEMANCE 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
- ORGANAL OR BELLEY COMMUNISTANCE CANSIDERATION OF THE GASTROCK OF THE COMMUNICATION OF THE COMMUNICATION OF THE COMMUNICATION OF SOIL AND SELL PROSENT ACCOUNTED BY LOCAL CODES AND ORDINANCES TO PROTECT EMBANISMENTS FROM SOIL LOSS AND TO PREVENT ACCOUNTED ON SOIL AND SELT IN STREAMS AND DRAININGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES SELF FENCE, STRAW BALES, SCHUENT BARRERS AND CHECK DAMS.

  2. EROSON CONTROL MESSURES MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON DRAWINGS WHERE DETERMINED MERCEGIBLE BY AUTIMAL SITE CONTROLLS.
- NECESSARY BY ACTUAL SITE CONDITIONS.
  PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD. THE CONSTRUCTION EXIT SMALL BE MAINTAINED IN A CONDITION WHICH MILL PREVIOT TRACKING OR FLOW OF MUD ONTO PUBLIC ROBRIT OF WAYS. THIS MAY REQUIRE PERSONS FOR DEPOSING WITH STONE AS CONDITIONS DEBAMO, REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENTS. ALL MATERIALS SPILLED, DROPPED WASHED OR TRACKED FROM VEHICLE OF SITE ONTO ROADWAY OR INTO STOOM DEANIS MUST BE REDAVED.
  IMADEMENTELY AFTER THE ESTABLISHABIT OF CONSTRUCTION ENTENANCES/EXITS, ALL PERMICTER EROSON CONTROL DEVICES AND STORMINIER MAYAGEMENT DEVICES SHALL BE INSTALLED PROOR TO ANY OTHER CONSTRUCTION.
  ALL SLIT BURREIS'S MUST BE PLACED AS ACCESS IS DETIMED DURRING CLEARNES. NO GRADING SHALL BE ONE UNTIL
- 6. ALL SILT BURRIES MUST BE PLACED AS ACCESS IS OBTAINED DURING CLUPAINS. NO GRADING SHALL BE DONE UNTIL SIT BURRIES MUST BE PLACED AS ACCESS IS OBTAINED DURING CLUPAINS. NO GRADING SHALL BE DONE UNTIL SIT BURRIERS INSTALLATION AND DETERTION FACULTIES ARE CONSTRUCTED. SLIT BURRIERS SHALL BE PLACED AT ALL DOWNSTREAM TOC OF COLT AND FILL SLOPES.

  7. THE LOCATION OF SOME EROSON CONTROL DEVICES MAY HAVE TO BE ALTERED FROM WHAT IS SHOWN ON THE PROPOSED DRAINAGE PATTERINS. IT IS THE CONTRACTOR RESPONSIBILITY TO ACCOMPLISH EROSON CONTROL FOR DRAINAGE PATTERIN CREATED AT VAROUS STAKES DURING CONSTRUCTION. ANY DISTRICTION LIFE MOSION CONTROL PROPOSED DRAINAGE PATTERIN CREATED AT VAROUS STAKES DURING CONTROLLON. ANY DISTRIBUTION DURING MAY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DIGNER MINEDATELY. ANY DISTURBED AREA LEFT EXPOSED FOR A PERSON GRAZITE THAN (7) DAYS SHALL BE STABILIZED WITH TEMPORARY SECONIC.

  8. THE CONSTRUCTION OF THE SITE WILL INITIALE WITH THE INSTILLATION OF EROSON CONTROL MEASURES SUPPCIENT TO CONTROL SEDIMENT DEPOST AND EROSON. ALL SEDIMENT DOWN LINE BEAMFAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERPORAMED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERPORAMENT VECETATION AND ALL ROADS AND DRIVENAYS HAVE BEEN COMPLETED. THE CONTRACTOR SHALL INSPECT EROSON CONTROL MEASURES AT THE BOY OF EACH MORROND DAY TO ENSURE MEASURES ARE CUMPLICATION REPORTED. WILL RESULT IN ALL CONSTRUCTION ERONE STOPPED ON THE JOB STEE UNITE. SUCH DESIRES ARE CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION ERONG STOPPED ON THE JOB STEE UNITE. SUCH DESIRES ARE CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION ERONG STOPPED ON THE JOB STEE UNITE. SUCH DESIRES ARE CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION ERONG STOPPED ON THE JOB STEE UNITE. SUCH DESIRES ARE CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION EROSON.

- 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 SWALES MUST BE GRASSED, AND RIP-RAY MUST BE PLACED AS REQUIRED TO CONTROL EROSION. ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN (?) DAYS OF CONSTRUCTION. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF VEGETATION OWER THE SITE FOR A PERSOO OF ONE YEAR. SEEDING DICKNET HE SITE FOR A PERSOO OF ONE YEAR. SEEDING PROPARATION: APEA TO BE SEEDING DICKNET, THE TOP LAYER SHALL BE LOOSEAND FRANCING. DISKNET OF THE TOP LAYER SHALL BE LOOSEAND FRANCING. DISKNET OF THE TOP LAYER SHALL BE LOOSEAND FOR THE MISSIONE AND AS USE. OF 10-10-10 FERTILIZER PER 1000 SF. HARROW OR DISK LIMESTONE AND FERTILIZER INTO SOIL TO A DEPTH OF AT LEAST 3' ON THE SLOPES FLATTER THAN \$1.
- SEEDING: APPLY 5–6 LBS. PER 1000 SF. OF KENTUCKY 31 TALL FESCUE. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDED DRILL CILIPACKER SEEDER OR HYDROSSEDER (SUJERY INCLUSES SEEDS AND FERTILIZER RECOMMENDED ON STEEP SLOPES ONLY) ON MOIST, FIRM SEEDEED. MAXIMUM SEED DEPTH SHOULD BE ½" WHEN USING THE HYDROSSEDER METHOD. BREGATE UNTIL VECENTION IS FIRMLY ESTABLISHED IF SOIL MOSSIRE IS NOT SUFFICIENT TO SUPPORT ADFOLIATE GROWTH
- SUPPORT AUGUME GROWTH.

  IN CONCENTRATE AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND LENGTH OF 10 FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, SHALL BE STABULZED WITH THE APPROPRIATE EROSON CONTROL MATTING OR BLANKES. BREPAR SHALL BE CLEAN, HARD, SOUND, DURBALE, LWIFORM IN QUALITY, AND FREE OF ANY DETRIBUTING LUMITITY OF SOFT, FRABLE, THIN, ELONGATED OR LAWINATED PIECES, DISHTEGRATED MATERIAL, ORGANIC MATTER, OIL, AUXALI OR
- OTHER DELETERIOUS 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
- 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 PERSO
- of 6 months. All grounding, utilities and underground equipment exposed by grading shall be replaced and properly connected to the existing portion of the organal system per approved codes and jurisdiction
- The grading tolerance for fill under building slabs shall be  $\pm 1$  inch measure with 10 ft straightedge. The grading tolerances outside building lines shall be  $\pm 1$  inch for lawns, unpayed areas and walks; and
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND RE-GRADING ROADWAY AND/OR RELD FOLLOWING THE INSTALLATION OF UTILITIES.

  ANY FILLS PLACED ON EXISTING SLOPES THAT ARE GREATER THAN 10 HORIZONTIAL TO 1 VERTICAL SHALL BE PROPERLY
- 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 GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR SUB-SURFACING OR SUB-GRADE SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS REPLAY DURING GRAVEL SURFACING OR SUB-GRADE WHERE SUCHED TO SPREAD EQUIPMENT LOADS. REPLAY DAMAGE TO EXISTING GRAVEL SURFACING OR SUB-GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR OFFERDROMS, DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE THE SAME TAKENDESS.
- CONCRETE
- 1. GENERAL 1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL COMPORM TO THE LATEST ELEMENTS OF THE PASSAGE APPLICABLE CODES:

  ACT 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS

  ACT 318 BUILDING CODE REQUIREDADTS FOR REPROFERED CONCRETE

  ACT 544.1R PIBER REINFORCED CONCRETE (F SPECIFIED)

  ACT 544.2R MERSURFAMENT OF PROPERTIES OF TIBER REINFORCED CONCRETE (F SPECIFIED)

  MIX DESIGN SHALL BE APPRANDE BY OWNERS' REPRESENTATIVE PROPE TO PLACING CONCRETE.

  CONCRETE SHALL BE NORMAL WEIGHT, 6X AR ENTRAINED (+-1.5%) WITH A MAXIMUM OF 4' SLUMP, AND HAVE A

  NINIMALL 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI UNILESS OTHERWISE NOTED.

  - MAXIMUM AGGREGATE SIZE SHALL BE 1".
    THE FOLLOWING MATERIALS SHALL BE USED:
    PORTLAND CIMENT:
    REINFORCEMENT: ASTM C 150, TYPE I ASTM A 185 & A 615 ASTM C 33 DRINKABLE NON-CHLORIDE CONTAINING NORMAL WEIGHT AGGREGATE:
- ADMIXTURES: \* Admixibles: Non-calcade Containing 
  Fiberous Reinforcement: Astal C1116 (if Specified)

  Reinforcing Detals Syall be in accordance with the latest entiron of Aci 315.

  Reinforcing Steel Shall conform to Astal A 615, grave 60, deformed unless otherwise noted. Welded wire 
  Fabric Shall conform to Astal A 185 welded wire fabric unless otherwise noted. Spluces shall be class 

  18° And All Hocks Shall be Standard, unless otherwise noted. Spluces Shall be class 

  18° And All Hocks Shall be Standard, unless otherwise noted. Spluces Shown otherwise 

  Noted Shall be Standard, unless the Standard of Shall be provided for reinforcing Steel unless shown otherwise 

  Noted Shall be Shall be shown of the Shall be provided for reinforcing steel unless shown otherwise 

  Noted Shall be shown of the Shall be shown of the Shall be shown of the Shall be shown otherwise 

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  Noted Shall be shown of the Shall be shown of the Shall be shown of the Shall be shown otherwise 

  Noted Shall be shown of the Shall be shall be
- - ON DRAWINGS:
    CONCRETE CAST AGAINST EARTH: 3 IN.
    CONCRETE EXPOSED TO EARTH OR WEATHER:
- CONCRETE EXPOSED TO EARTH OR WEATHER:

  If AND LARGER 2 IN.

  If AND SMALLER AND WHYE: 1 ½ IN.

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

  SLASS AND WALL ½ IN.

  BEALS AND COLUMNS: 1 ½ IN.

  A CHAMPER OF X IN SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UND., IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

  ID. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROVIDED THE MANUFACTURER'S WRITTEN RECOMMENDED PROVIDED THE MANUFACTURER'S WRITTEN RECOMMENDED PROVIDED THE 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.
- APPROVIX. WHEN DROLLING HOLES IN CONCRETE.

  CURING COMPOUNDS SHALL CONFORM TO ASTIN C-309.

  ADMIXTURE SHALL CONFORM TO THE APPROPRIATE ASTIN STANDARD AS REFERENCED IN ACI-301.

  DO NOT WELD OR TACKWELD REINFORCING STEEL.

  ALL DOWES, ANCHOR'S BOILT, BUEBENDER STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER

  EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO THE ENGINEER. 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 WINTS AND OTHER PLANE OF
- PLACE CONCRETE IN A UNFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANE OF
  WEARDESS. VIBRATE THE CONCRETE TO FULLY PURBED REINFORCING. DO NOT USE VIBRATOR TO TRANSPORT CONCRETE
  THROUGH CHUTES OR FORMINGEN.
   DO NOT PLACE CONCRETE IN PONDING WATER, ICE, OR ON FROZEN GROUND.
   FOR COLD WEATHER AND HOT WEATHER CONCRETE PLACENENT, CONFORM TO APPLICABLE ACI CODES AND
  RECOMMENDATIONS. IN ETHER CASE, MATERIALS CONTAINING CHLORIDE, 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 ½ LBS OF FIBER PER CUBIC YARD.





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EMMANUEL POULIN FLAPE. 154075 IT IS A VOLADON OF LAW FOR ANY PERSON UNICES THEY ARE ACTING-UNDER THE DIRECTION OF A LECENSED PROFISSIONAL ENGAFER TO ALTE THIS DOCUMENT, UNIESS ENTINETH AGREED TO BY AN SOLUTIONS IN WRITING, AN SOLUTIONS, INC. DISCLAWS ALL LIABURY ASSOCIATIO WITH THE RELIES, LIZERARION OR MODORCIATION OF THE CONTENTS HEREIN

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ADDRESS: 1237 NW 1ST AVENUE FORT LAUDERDALE, FL 33311

SHEET TITLE:

**SPECIFICATIONS** 

SHEET NUMBER:

13-1621

Page 27 of 28

11 - ELECTRICAL 1.1 CENERAL
THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, TRANSPORTATION, CONSTRUCTION THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INANSPORTATION, CONSTRUCTION TOOLS, ETC., FOR THE INSTALLATION OF COMPLETE AND PROPERTY OPERATING SYSTEMS.
INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS AND ORDINANCES OF ALL AUTHORITIES HAVING JURISDICTION AND WITH ALL ASSOCIATED UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS. INSTALLATION WILL ALSO COMPLY WITH THE LATEST EDITIONS OF ALL COMES AND STANDARDS OF THE ENTITIES LISTED ON SPEET SP1, NOTE 2.
THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE THE CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS AND PAY ALL REQUIRED FEES. THE CONTRACTOR SHALL SCOURS ALL NECESSARY ELECTRICAL PERMITS AND PAY ALL REQUIRED FEES. 
RECORD DRAWNIGS: MANTIAN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND 
NOTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE 
CONSTRUCTION MANAGER LIPON COMPLETION OF THE PROJECT. 
ALL BROCHMERS, OPERATION MANUALS, CALAGOS, SHOP OXIMINGS, SPECIFICATIONS, ETC., SHALL BE TURNED OVER 
TO THE CARBER AT THE COMPLETION OF THE PROJECT. 
GUARANTEE, MARRATER INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUND, ETC., FOR A PERSOO 
OF ONE YEAR. FURNISH MARRATER INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUND, ETC., FOR A PERSOO 
OF ONE YEAR. FURNISH MARRATER SO THE DEFECTIVE MATERIAL AND/OR MORGANISHIP MILL BE, FOR A PERSOO 
OF ONE YEAR. FURNISH MARRATICY SO THE DEFECTIVE MATERIAL AND/OR MORGANISHIP MILL BE, FOR A PERSOO 
OF ONE YEAR. FURNISH MARRATICY SO THE DEFECTIVE MATERIAL AND/OR MORGANISHIP MILL BE, FOR A PERSON 
OF WARRANTY IF, APPENDED AND MARRATIC HER PERSON OF THE OWNER FOR PERSON OF MARRATIC IF, APPENDING THE MORGANISH MEDITAL SERVICES WITHOUT WRITTEN PERMISSION OF THE MORR. 
DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER OF THAT SERVICE AND WRITTEN 
PERMISSION OF THIS INSTALLATION'S CARREER. PERMISSION OF THIS INSTALLATION'S CARRIER CO-DEPATION: CO-DEPATE WITH OTHER CONTRACTORS AND SUBCONTRACTORS ON SITE. ARRANGE AND EXECUTE WORK IN SUCK A MANNER AS REQUIRED FOR THE SATISFACTORY AND EFFICIENT CONSTRUCTION OF THIS PROJECT BY ALL TRADES CONCERNED.

TEMPORARY POWER ARRANGE AND PAY FOR THE CARRIER'S TEMPORARY POWER DURING CONSTRUCTION.

INSTILLATION SMALL COMPLY SPECIFICALLY WITH ENGINEERING STANDARDS MANUAL ANY DEVANDINGS SMALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANUACE PROX TO COMMENCEMENT OF WORK.

PROCUREDED VERPICATION FORMODE AN ITEMIZED CERTIFICATION TO THE PROJECT MANUACE THAT EQUIPMENT AND RELATED HARDWARE HAVE BEEN OPDERED WITHIN RECESSIVELY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

PERMISSION OF THIS INSTALLATION'S CAPRIER.

CHANCES: NO ADDITIONAL OSIST FOR LABOR OR MATERIALS WILL BE ALLOWED FOR CHANCES OR MODIFICATIONS MADE UNLESS PROR WRITTEN APPROVAL IS OBTAINED FROM THE ARCHITECT, ENGINEER OR OWNER IN THE FORM OF A CHANGE ORDER.

CHANGE ORDER.

DESCREPANCIES: DESCREPANCIES ON THESE PLANS, SPECIFICATIONS, ETC., MUST BE IMMEDIATELY BROUGHT TO THE ATTRIBUTION OF THE ENGINEER.

ATTENTION OF THE ENGINEER.

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 ALLOMANCES WILL BE GIVEN FOR THE SITE CO-OPERATION: CO-OPERATE WITH OTHER CONTRACTORS AND SUBCONTRACTORS ON SITE, ARRANGE AND EXECUTI

INSPECTIONS
GENERAL: 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.
INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAWNED JURISDICTION AT THE PROJECT SITE.

JURISLANDIA AT THE PROJECT SITE.

INSPECTION ACHOR'S: APPROXED BY THE LOCAL AND/OR STATE ASENCIES HAVING JURISLOCTION AT THE PROJECT SITE.

CERTIFICATES: SUBJET ALL REQUIRED INSPECTION CERTIFICATES TO THE CARRIER AND UTILITY.

1. MAKERS AND SUPPORTS
1. MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SMALL BE ZING COATED OR OF EQUIVALENT CORROSON RESISTANCE BY TREATMENT OR INHERENT PROPERTY AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SMALL BE HAT DIP GALVANIZED.
2. TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC., AS INDICATED OR

REQUIRED.

REQUIRED.

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

STRUCTURAL MEMBERS: DO NOT CUT, DRILL OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED BY THE ENGINEER.

MISCELLANEOUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANCLES, FASTENERS AND HARDWARE AS REQUIRED TO ADEQUIVELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.

ONE-HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

7.

11.4 ENGOSURES / MIRCHARD DE USED FOR COMBUNIS DAMACK ITAM 3/4 NRCH.

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

better) outdoors.

Wretways shall be epoxy-coated (gray) and include a hinged cover and rated Nema 1 (or better) indoors, or nema 3r (or better) outdoors.

Junction Boxes: Junction Boxes shall be a minimum size of 4 inches square by 1–1/4 inches deep.

SURROUNDING SURFACE.

PROVIDE APPROPRIATE WEATHERPROOFING MATERIALS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL WARTH INTERIORS. PROVIDE FREEPROOF MATERIALS FOR PENETRATIONS REQUIRENCE A FIRE RATED SEAL. REFER TO CUITING AND PATCHING HOTES UNDER SECTION 1 — CEMERAL.

IF MAY ROOFING WORK IS TO BE PERFORMED, THE CONTRACTOR SHALL USE THE BUILDING OWNER'S APPROVED ROOFING CONTRACTOR TO PREVENT VOIDING MAY EXSTING ROOFING WARRANTIES. MAY DAMAGE TO THE EXSTING ROOFING WARRANTIES ANY DAMAGE TO THE EXSTING ROOFING WARRANTIES. MAY DAMAGE TO THE EXSTING ROOFING MEDICAL SHALL BE REPAIRED IMMEDIATELY TO AVOID MOISTURE INTRUSION INTO THE BUILDING SHELL GENERALE PROVIDE ALL CUTTING, DRILLING, FITTING AND PATCHING NECESSIARY FOR ACCOMPLISHING THE WORK. THIS INCLUDES REMOVAL AND REPLACEMENT OF DEFECTIVE WORK AND WORK HOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

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 TCHING APPEARANCE OF EXISTING CONSTRUCTION.

CONDUCTORS

USE 98% CONDUCTIONTY COPPER WITH 17PE X9H7W-2 INSULATION, 600 VOLT, COLOR CODED, USE SOUD CONDUCTORS
FOR WIRE UP TO AND INCLUDENCE NO. 8 AWG, STRANGED CONDUCTORS FOR MIRE LARGER THAN NO. 8 AWG. USE
PRESSIVE—TYPE INSULATED TWIST—ON CONNECTORS FOR NO. 10 AWG AND SAWLER, SOUDERLESS MECHANICAL
FERMINAL LIDES FOR NO. 8 AWG AND LARGER FLABRAL HOT BE USED.

NO BY, MC OR ROMBY CARLE SHALL BE PERMITTED.

OR ROMBY CARLE SHALL BE PERMITTED.

OR ROMBY CARLE SHALL BE PERMITTED.

OR ROMBY CARLES WILL BE GROUNDED AT: A) THE ANTENNA, B) MIDDLE OF THE CABLE RUN IF OVER
EACH END OF EVERTY POWER, ROUNDINGN AND TIL CONNUCTOR AND CABLE SHALL BE LABELED WITH LOR CORCED
INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAP WITH LVY PROTECTION, OR EQUAL).

ALL THE WARP'S SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL. RELOYE SHAPE DOGS.

ALL THE WARP'S SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL. RELOYE SHAPE DOGS.

ALL THE WARP'S SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL. RELOYE SHAPE DOGS.

ALL TOWNSHIP TO SHALL THE WARP'S SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL. RELOYE SHAPE DOGS.

ALL TOWNSHIP TO SHALL THE WARPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL. RELOYE SHAPE DOGS.

ALL THE WARP'S SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL. RELOYE SHAPE DOGS.

ALL TOWNSHIP TO SHALL THE CAMBO THE CONNECTION TO THE ANTENNA CABLE WITHOUT ANY
SHAPE BEHOS (MIRMAIN ROUS) TO<sup>3</sup> AND CONNECTION SHALL BE MADE TO GROUNDING SYSTEM.

ALL TOWNSHIP TO SHALL THE MIRMAIN ROUS TO<sup>3</sup> AND CONNECTION SHALL BE MADE TO GROUNDING SYSTEM.

ALL TOWNSHIP TO SHAPE TO SHALL THE MIRMAIN ROUS TO<sup>3</sup> AND CONNECTION TO THE ANTENNA CABLE WITHOUT ANY
SHAPE BEHOS (MIRMAIN ROUS TO<sup>3</sup> AND CONNECTION SHALL BE MADE TO GROUNDING SYSTEM.

1.3.2 ANTENNA RECORDERS FROM TITLE NORTH. 11.6 CONDUCTORS

11.7 ELECTRICAL SERVICE
1. GENERAL COMPLY WITH AND CO-ORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.
2. SHORT CIRCUIT RATINGS. PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY ANAL CONTRACTOR TO VERIFY UTILITY CO. FAULT CURRENT AND ENSURE THAT ALL EQUIPMENT MEETS FAULT CURRENT (AT A

CONTRACTOR TO VEREY UTILITY CO. 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 PANING LLA ASSOCIATED FEES.

IDENTIFICATION: IDENTIFY SERVICE DISCONNECTION MEANS WITH PERMANENT NUMERIATE.

THE LOCATION SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTRACTOR SYALL COORDINATE THE ACTUAL LOCATION WITH THE ELECTRIC UTILITY.

LOCATION AND ARRANGEMENTS: DRAWINGS INDICATE DUGRAMMATICALLY THE DESIRED LOCATION OF EQUIPMENT, FIXTURES, OUTLETS, 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 DISTRIBUTION.

SECTIONS SWILL BE IDENTIFIED WITH ENGRAVED, WHITE ON BLACK, LAMINATED, RIGID PHENOLIC NAMEPLATES WITH 1/4 INCH CHARACTERS, SECURELY AFFIXED TO FACE OF CABINET.

11.8 TELEPHONE SERVICE
1. GENERAL INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY'S RULES AND REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE TELEPHONE UTILITY RELATIVE TO A TIMELY INSTALLATION OF THE INCOMING TELEPHONE SERVICES AND PAYING ALL ASSICIATED FEES.
3. METALLACIONOUT OF TUBING FOR IT LIMES SHALL BE BONDED TO GROUND ON BOTH ENDS.
4. THE LOCATION SHOWN FOR A TELEPHONE POLE OR CONNECTION TO THE TELEO DEMARC IS FOR CONCEPTUAL USE ONLY. THE CONTRACTOR SHALL CORDONAITE THE ACTUAL LOCATION WITH THE TELEPHONE UTILITY.
11.9. CHECKOUT. TESTING AND ADJUSTING.
1. CORRECTION/REPLACEMENT: AFTER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEFICIENCES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED CAPACITY.

CAPACITY.

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

WHEN SIE 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

1.10. RUCKWY STSTEDS / CONDUIT

1. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PMC CONDUIT, UNDERGROUND PMC CONDUIT SHALL TRANSITION TO RIGH CALVANIZED STEEL CONDUIT OR SCHEDULE 80 PMC CONDUIT BEFORE RISING ABOVE GRAVE OR CONDUITS. BEPOSED CONDUIT SHALL BE RIGHD CALVANIZED STEEL (RCS) CONDUIT OR SCHEDULE 80 PMC CONDUIT.

2. GRS CONDUITS, WHEN SPECIFIED, SHALL MEET UL-6 FOR CALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGHD CONDUIT (RIGHD PMC SCHEDULE 40, OR RIGHD PMC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

4. ELECTRICAL METALLIC TURNING (EATT) OR RIGHD NONMETALLIC CONDUIT (RIGHD PMC SCHEDULE 40) SHALL BE USED FOR CONDUIT (DIGHD (COLOTIONS).

UNION-THE REDIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIRRATION OCCURS OR FLESBULTY IS NEEDED.

VIBRATION OCCURS OR FLEDBILLTY IS NEEDED.
PUIC AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS — 200 LB.
TEST POLYETHYLENE CORD.
ALL CONDUIT BEDIOS SYALL BE IMMINIOUM OF 24 INCH RADIUS.
ALL INEFALLIC RACEINAYS SHALL BE GROUNDED PER NEC.
THE CONTROCTOR SHALL FIELD MERRY 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 WANNER

PROFESSIONAL MANNER.

11.11 BLOW GRADE

1. THIS SITE INCLUDES NEW ORTICAL UNDERGROUND ELECTRIC, TELEPHONE AND OTHER SERVICES IN THE MOINTY OF OTHER UNDERGROUND SERVICE DISSUPPION TO THESE FACULTIES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID SERVICE DISSUPPION TO THESE FACULTIES. THE CONTRACTOR SHALL ALSO CONTACT ELECTRIC AND TELEPHONE, AND ALL OTHER APPROPRIATE ASSICISES PROR TO EXCANATION AUTHOR SHALL BE DONE TO LOCATE DISSTING UNDERGROUNG UTILITIES. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED OUT PROR TO ANY EXCANATION WORK BRING PERFORMED. PHOTOS SHALL BE TAKEN OF ALL UNDERGROUND WORK AND GROWN TO THE CARRIED DURING THE SITE'S HANDOFF.

3. ALL TRENCHING AND EXCANATION WITHIN EXISTING COMPOUNDS MUST BE PERFORMED BY HAND IN ACCORDANCE WITH THE OWNERS. SPECIFICATIONS. ANY OTHER METHODS OF DISGRING 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".

UNDERFROUND CONDUIT SHALL BE ENCASED IN REINFORCED CONCRETE IN AREAS OF VEHICLE TRAFFIC. CONCRETE ENCASSMENT SHALL BE "MINIMUM ALL ACKUMD AND BETWEEN CONDUITS.

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

CONDUIT FOR EASY IDENTIFICATION.

COMBUTE FOR EAST INCRUIRATION.

1.1.12 EQUIPMENT

1. THE MAIN ORGUIT 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 PROMOE AN ITEMIZED CERTIFICATION TO THE CARBER OF ALL EQUIPMENT AND RELATED HARDWARE, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HISS OF SHADOWER, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HISS OF SHADOWER.

3. THE CONTRACION SMALL PROVIDE AT ITEMS AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HRS OF THE NOTICE TO PROCEED.

ALL ELECTRICAL COMPONENTS SMALL BE CLEARLY LABELED WITH ENGRAVED PLASTIC LABELS. ALL EQUIPMENT SMALL BE LABELED WITH ITS VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACTLY RATING AND BRANCH CRICUIT IN NUMBERS (I.E., PANELBOARD AND CRICUIT IO'S).

METAL RECEPTACLE, SWITCH AND DEVICE BOXES SMALL BE GALVANZED, EPOXY-COATED OR NON-CORRODING; SMALL MEET OR EXCEED ILL 514A AND NEMA OS 1; AND BE RATED NEMA 1 (OR BETTER) NIDOORS OR WEATHER-PROTECTED (MP OR BETTER) DISTANCE OR WEATHER PROTECTED (MP OR BETTER) DISTANCES OR WEATHER-PROTECTED (MP OR BETTER) DISTANCES OR WEATHER PROTECTED (MP OR BETTER) DISTANC

THE AC POWER COMMON MODE SURGE SUPPRESSOR SHALL BE CONNECTED TO THE COMMERCIAL POWER INPUT SIDE

THE AN EVENTS OF MINISTER SMITCH.

OF THE MANUAL TRANSFER SMITCH.

IN MAYBETS WITH DETRINING ZONE > OR = TO 4, RF TYSS DEVICE SHALL BE INSTALLED AT THE ENTRANCE TO THE
SHELLER OR AS CLOSE AS POSSES OF THE BITS CABINET FOR OUTDOOR STES, TO PROTECT AGAINST LIGHTNING AND

Transport voctages.

A TI Transport TVSS DEVICE SHALL BE INSTALLED AT ALL SITES BETWEEN THE NIU AND THE BTS.

13.— RE AND TOWER APPURIENANCE INSTALLATION RELATED NOTES
13.1 COUNTY CASE REQUIREMENTS.
13.1 COUNTY CASE REQUIREMENTS.
14. GENERAL PROVIDE ALL LABOR, COULPMENT, AND MATERIALS NECESSARY FOR RECEMING, INSTALLING, TESTING, AND ADJUSTING ANTENNA CASELS FROM THE ANTENNA TO THE CONNECTIONS AT THE BASE TRANSMISSION SYSTEM (STITLE).
THIS SHALL INCLUSE ALL COUNTMENT SHOWN OR REQUIRED FOR A COMPLETE OPERATING SYSTEM. ANTENNA, ANTENNA CASELS, CONNECTIONS, AND FITTING SHALL BE THIRD PARTY FURNISHED COMPONENTS AS SHOWN ON THE BILL OF

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

COAGUL CABLE LENGTHS SHALL BE FIELD MEASURED, INSTALLER SHALL NOTIFY CARRIER PROR TO PURCHASE OF CABLE OF THE OMERALL LENGTH REQUIRED.

COAGUL CABLE TYPE AND DUMETER SHALL BE VERIFIED WITH CARRIER.

COAGUL CABLE SHALL BE LABELD IN A ACCORDANCE WITH CARRIER.

COAGUL CABLE SHALL BE LABELD IN A ACCORDANCE WITH CARRIER ELECTRICAL MATERNAS AND METHODS SPECIFICATIONS. ALL MAIN CABLES WILL BE COLOR CODED AT FOUR LOCATIONS: A) AT ANTENNA PROR TO JULIPER, B) AT THE BOTTOM OF THE TOWER, C) SCHEEGER PART OF THE WATCHING CHEEGER PART OF THE WHICH CHEEGER PART OF THE WHICH CHEEGER PART OF THE WATCHING OF THE SHELTER/CABINET.

PROVIDE AT LEAST 6 OF SLACK IN THE MAIN COAGUL CABLES AT THE ANTENNA BIO TO PROVIDE FOR FUTURE CONNECTIORS TO CARRIEL CABLE AT BOTH ENDS (ANTENNA END AND 8TS LOCATION). UPON SUCCESSFUL COMPLETION OF THE SWEEP TEST, THE CONTRACTOR SHALL PROVIDE A WATMERTINGT SEAL ON THE COAK CABLES.

THE MINIMUM BEDIDING ROADUS FOR ALL ANTENNA CABLES SHALL BE AS SHOWN BELOW OR PER THE MANUFACTURER, WHICHEVER IS MORE CONSERVATIVE:

IN AIR OR CABLE TRAY IN CONDUIT

ALL MAIN CABLES WILL BE GROUNDED AT: A) THE ANTENNA, B) MIDDLE OF THE CABLE RUN IF OVER 2007, C) PRIOR TO ENTERING EQUIPMENT SHELTER/CABINET (WITHIN 1") OF ENTRY). GROUNDING THIS — AFTER INSTALLATION OF GROUND STRAPS, THE CONNECTIONS SMALL BE MADE WEATHER TIGHT USING WEATHERPROOF KITS AS IDENTIFIED. GROUND PRITALS SMALL BE BROUGHT OUT IN THE DOWNWARD DIRECTION FROM THE CONNECTION TO THE ANTENNA CABLE WITHOUT ANY SMAPP ERRORS (WINMAMA ROOUS 10") AND CONNECTION SMALL BE MADE TO GROUNDING SYSTEM.

13.2 ANTENNA RECURREMENTS:

1. AZIMUTHS ARE ORBITTED CLOCKWISE FROM TRUE NORTH.

2. CONTRACTOR SHALL YERRY ANTENNA TYPE, AZIMUTHS, AND DOWNTILTS WITH THE CARRIER PRIOR TO CONSTRUCTION.

3. THE MINIMUM DISH RAD CENTER HEIGHT ABOVE THE ROOF SHALL BE 6"-8".

13.3 Tower Cumbing safety guidelines 1. Tower Cumbers must have completed a nate certified climbing training course per contract specifications

PRIOR TO WORK ON THIS STRUCTURE CONTRACTOR MUST COMPLY WHY THE STANDARD "RF POWER AND LOCKOUT/TAGOUT" PROCEDURES BEFORE ALLOWING

CONTRACTOR MOST COMPLET WITH THE STANDARD OF POWER AND ECONOTYTHOOD PROCEDURES BEFORE ALLOWING TO COLINGERS ON THIS STANDARD TO ACCESS TOWER IN ADVERSE WEATHER CONDITIONS, INCLUDING HICH WINDS, LOCKTITHME, BANK, SHOW ICE OF DURING MOST TIME.

CONTRACTOR OR CLIMBERS SHALL IMMEDIATELY REPORT ANY CLIMBING EQUIPMENT OR CONDITIONS JUDGED INADEQUATE.

EMERGENCY NUMBERS SHALL BE POSTED ON SITE AND ADVERTIZED TO CLIMBERS BEFORE THE BEGINNING OF THE

6 SAFETY MEETINGS SHALL TAKE PLACE EVERY MORNING REFORE THE WORK DAY REGINS.

SITE SPECIFIC NOTES

20.1 GENERAL 1. CONSTRUCTION INCLUDES:

Construction includes:

Installation of communication equipment

Antennas and mount installation on structure
the professionals involved on this project are as follows:

Engineer:

AW Solutions, Inc.

300 Crown Oak Centre Drive

LONGWOOD, FL 32750 PHONE 407.260.0231

LEGEND AND ABBREWATIONS
AHJ AUTHORITY HAVING JURISDICTION
AWG ABERCAN WIRE GALDE
BOW BARE COPPER WIRE
BIS BASE TRANSBUSSON SYSTEM
CIGSE COAN ISOLATED GROUND BAR, EXTERNAL DIAMETER ELECTRICAL METALLIC TUBING

GENERATOR
GLOBAL POSTIONING SYSTEM
MASTER ISOLATED GROUND BAR
NATIONAL ELECTRIC CODE, LATEST ADOPTED EDITION
POWER PROTICTION CABINET
POLY WINTL CHLORIDE RIGID GALVANIZED STEEL





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SFL63 1 SITE#:

1237 NW 1ST AVENUE FORT LAUDERDALE, FL 33311

SHEET TITLE:

**SPECIFICATIONS** 

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SP2

13-1621 Page 28 of 28