

prior to starting work at (954) 828-5649

PERMIT NO. CC13-03

District 2

M HOLD- transcription. The middle of

Applicant	Name and Job Nu	mber Crown Castle	SFL 60_3			214
Job Addre	ess and Location_	550 SE 21st Street				
Descriptio	n of Work_Install	ing cabinet and utili	ty pole within rig	ıht-of-way.		
Anticipate	d start and end da	tes of work11/4/1	3 - 45 days			
be (C □ C	elow grade, in according to a lower than the code). A letter by a	tion is for an exempeordance with Secti a qualified expert(s) questing the follow	on 25-100.1.B.3 is attached.	of the City of F	ort Lauderdale Co	de of Ordinances
☐ C. (Size)	The second secon	☐ C.3 (Front Yard)	☐ C.4 (Corner Yard)	☐ C.6 (Separation)	□C.7 (Exist. Facility)	C.12 (Collector)
		of any waivers that retion 25-100.1 of the		above, the propo	sed at grade facilit	es conform to the
or	e hundred fifty (1	g application has be 50) feet of the prop. 1.E.5 of the Code.				
X Th	ne proposed site w	vill be maintained by			the approved Graf	fiti Mitigation Plan
□ A	landscaping main	, which is on file itenance commitme	nt letter from th	ngineer e adjacent prope	rty owner and rele	vant home owner
X Cr	own Castle shall b	ned to this application be responsible for made facilities depicte	aintaining lands		pletely located in th	e public rights-of-
As an aut	horized represent	tative of Crown Ca	stle, I certify ur	nder oath that the	e forgoing stateme	ents are true and
Table 2				1800 1	less P.	
	Io Hernandez me of Authorized	Crown Castle Agen	t Signati	ure of Authorized	Crown Castle Ager	it
Sworn to a	nd subscribed be	fore me this	24 day of		, 20 <b>03</b>	
(Seal	SHANE HAF MY COMMISSION # EXPIRES: September	NER State of	Public, of Florida	My Commission	Expires	3-16
- 5 m	EXPIRES: September	······§			(Do not wr	te below this line)
Conceptua	al approval date	by			, Subject to the fol	lowing conditions:
1) A deta	iled visual mitiga	ation plan is requir	ed			
Final Per	mit approval date	eby		Final Inspection	n dateb	/
**Notify Er	ngineering Permits	Division 24 hours				

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

Permit No. CC13 - <b>03</b>	
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Application Package complete – 3 sets (
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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)			
X	Sum of H + W + L not greater than 124" and H not greater than 5'-8"			
X	Cabinet not in front yard			
	Proposed landscaping is in accordance with plan on file with City			
	If landscaping is to be maintained by Property Owner, Agreement has			
	been provided			
	Landscaping plan has been checked by Dave Genarro			
×	New cabinet is at least 2 feet from other cabinets, poles, etc.			
×	Cabinet not in sight triangle (sight triangle may be reduced to 10 feet)			
×	ADA requirements met			
×	Roadside recovery setback met (per Florida Green Book)			
X	Cabinet/landscaping is at least one foot from sidewalk			
×	Cabinet would not conflict with future sidewalk			
X	Field face cabinet to R/W			
	Field Inspection Checklist	Comments		
	•			
	Type and location of topographic features shown on permit plan are			
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## TEMPORARY MODIFICATION OF TRAFFIC (MOT) ROUTING FORM

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	DDO JEGT HAME ADDRESS
	PROJECT NAME/ADDRESS: SFL 60_3
<ul> <li>This routing form should be complet "PERMIT").</li> </ul>	red 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, su</li> <li>This form is for MOT's within rights-of-rights-of-way under Broward County</li> </ul>	orm does not constitute any approvals by the City. The MOT may be implemente ubject 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
· If work is taking place in County or	FFDOT R/W, an MOT permit is not required from the City. However, PERMI's asked to provide two weeks advance notice of any closures or detours to the
Specific dates and times requested for M	OT implementation:
Begin	End
work.	Please note if additional sheets have been attached for the description of
Place new telecommunications cabi to new 45' wood utility pole.  Describe MOT, the number of lanes affe	O' West of S. Federal Hwy Work on shoulder and sidewalk closure net and new 45' wood utility pole. Attach Crown Castle antenna octed on each street, if metered parking spaces will be displaced, if detoured, if MOT will be full-time (or times of day the MOT is to be in effect) and
Place new telecommunications cabinate new 45' wood utility pole.  Describe MOT, the number of lanes affer are necessary, if flagmen will be provide any other special considerations related the description of MOT.	net and new 45' wood utility pole. Attach Crown Castle antenna cted on each street, if metered parking spaces will be displaced, if detours 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
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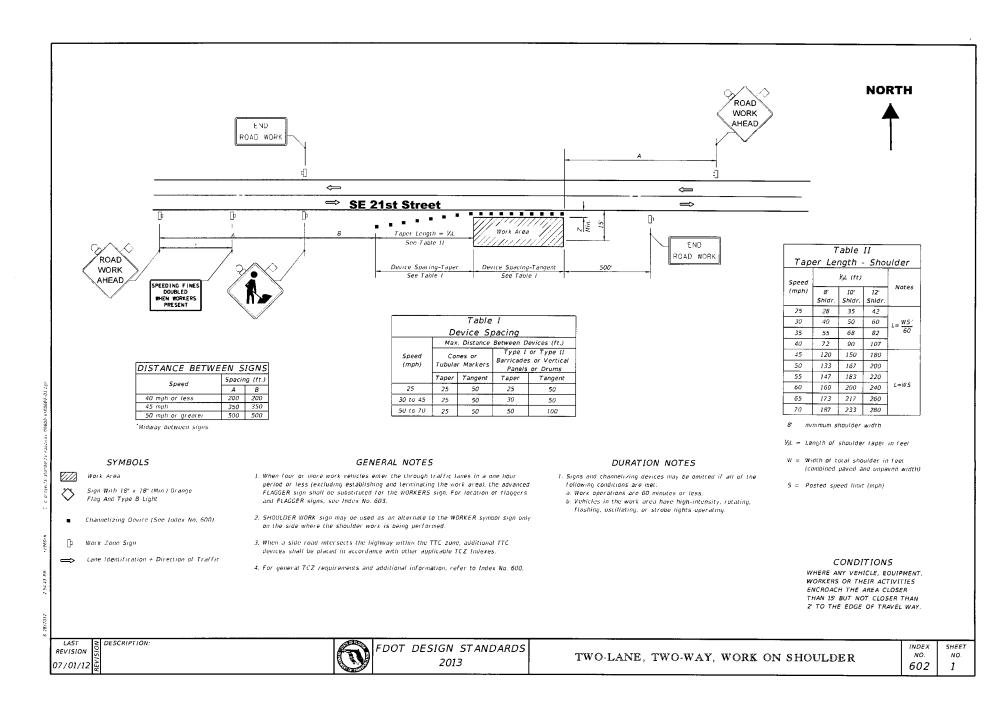
Rev. 6-8-12

Project Name:	PERMII NUMBER:
Applicant should collect the s	signatures in this section (if required). To expedite processing, signatures may be ax or pdf and provided on separate copies of this page.
Toquotos concentoring and the	A of pur unit provided on departue depres of this page.
(Date)	Police Department (Patrol Secretary Office) (Required only if MOT includes a detour for any direction of travel) 1300 West Broward Boulevard Tel.: (954) 828-5477 (call for appointment)
(Date)	Fire-Rescue Department (Required only if MOT includes a detour for any direction of travel) Bill Findland, Assistant Chief 528 NW 2 <sup>nd</sup> Street
	Tel.: (954) 828-4351 (call for appointment); Fax: (954) 828-6843
(Date)	Maj Shakib/ Studies Section (Required only if MOT/detour affects County road or intersection) 2300 W. Commercial Boulevard (Please call (954) 847-2655 for appt. Walk-ins NOT accepted)
After above signatures are collect	cted, Applicant should forward the MOT Plan and this routing form to the person listed below.
(Date)	Transportation and Mobility
(outo)	Heslop Daley, Project Engineer 290 NE 3 <sup>rd</sup> Avenue Tel: (954) 828-5734 Fax: (954) 828-3734
City Manager's signature to b	pe requested by City Staff only (if signature is required)
(Date)	City Manager's Office

A copy of the PERMIT, this routing form and MOT shall be kept on-site and made available to the City inspector at all times.

This form is for MOT plans associated with private utility projects and private development projects. MOT plans for City Capital Improvement Projects shall be coordinated through Engineering Inspection or the Project Manager. Traffic modifications required for special events shall be arranged through the City's Special Events Coordinator, Jeff Meehan at (954) 828-6705.

Lee R. Feldman, ICMA-CM, City Manager 100 N. Andrews Avenue, 7<sup>th</sup> Floor Tel.: (954) 828-5013 or Fax: (954) 828-5l21





- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Or Permanent Curb Ramps. Required Locations For Either Temporary
- ⇒ Lane Identification + Direction of Traffic
- Pedestrian Longitudinal Channelizing Device

- work zone signs will be needed to control traffic on the streets.
- 2. For spacing of traffic control devices and general TCZ requirements refer to Index No. 600. Maximum spacing between barricades, vertical panels, drums or lubular markers shall not be greater than 25'.
- 3. Street lighting should be considered.
- 4. For nighttime closures use Type A flashing warning lights on barricades supporting signs and closing sidewalks. Use Type C steady-burn lights on channelizing devices separating the work area from vehicular traffic.
- 5. Pedestrian traffic signal display controlling closed crosswalks shall be covered or deactivated.
- 6. Post Mounted Signs located near or adjacent to a sidewalk shall have a 7' minimum clearance from the bottom of sign to the

- 7. When construction activities involve sidewalks on both sides of the street, efforts should be made to stage the construction so that both sidewalks are not out of service at the same time.
- 8. In the event that sidewalks on both sides of the street are closed, pedestrians shall be guided around the construction zone.
- 9. Temporary walkways shall be a minimum of 4' wide with a maximum 0.02 cross slope and a maximum 0.05 running slope between ramps. Temporary walkways less than 5' in width shall provide for a 5' x 5' passing space at intervals not to exceed 200'. Temporary ramps shall meet the requirements for curb ramps specified in Index No. 304. Temporary walkway surfaces and ramps shall be stable, firm, slip resistant, and kept free of any obstructions and hazards such as holes, devris, mud, construction equipment, stored materials, etc
- 10 Temporary ramps and temporary crosswalk markings shall be removed with reopening of the sidewalk, unless otherwise noted in the plans. All work and materials associated with constructing temporary curb ramps and temporary crosswalk markings, removal and disposal of temporary curb ramps and temporary crosswalk markings, and restoration to original condition shall be paid for as Maintenance of Traffic, Lump Sum.

#### **CONDITIONS**

WHERE ANY VEHICLE, EQUIPMENT WORKERS OR THEIR ACTIVITIES ENCROACH ON THE SIDEWALK FOR A PERIOD OF MORE THAN 60 MINUTES.

PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS

INDEX SHEET NO. 660

NO.

LAST DESCRIPTION: REVISION

07/01/12

FDOT DESIGN STANDARDS 2013



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

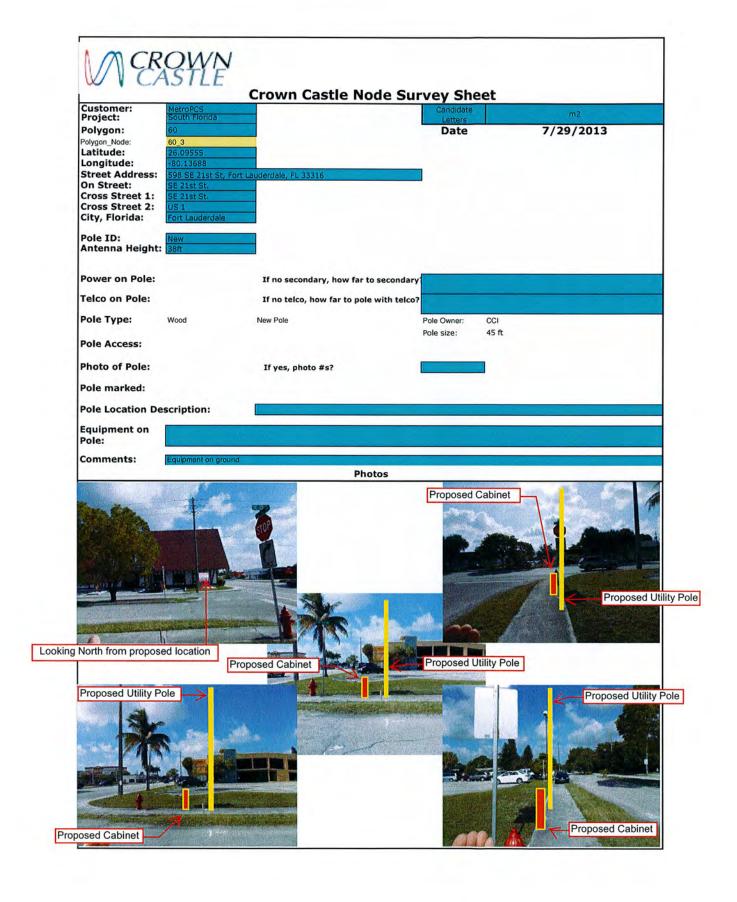
Director of Implementation

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

D A Realty Holdings of South Florida LLC,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 550 SE 21<sup>st</sup> Street Fort Lauderdale, Fl. 33316

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

Grif-Ko Apartments 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: 550 SE 21<sup>st</sup> Street Fort Lauderdale, Fl. 33316

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Sincerely,

Armando Hernandez

Site Development Manager

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John Paul Alt,

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Sincerely,

Armando Hernandez

Site Development Manager

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John Robichaud,

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Sincerely,

Armando Hernandez

Site Development Manager

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

Poinciana Park 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: 550 SE 21<sup>st</sup> Street Fort Lauderdale, Fl. 33316

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

Shelly & Michael Dicondina,

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: 550 SE 21<sup>st</sup> Street Fort Lauderdale, Fl. 33316

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Sincerely,

Armando Hernandez

Site Development Manager



CLIENT :

**CROWN CASTLE SFL60\_3** 

ADDRESS:

CLIENT SITE ID#:

550 SE 21ST STREET FORT LAUDERDALE, FL 33316

SITE TYPE:

**NEW WOOD POLE** 

ROPERTY	INFORMATION
---------	-------------

SITE COORDINATES:

JURISDICTION:

PROPERTY OWNER: ADDRESS:

26.09555\* -80.13688\* CITY OF FORT LAUDERDALE

CROWN CASTLE 8555 NW 64TH STREET

MIAMI, FL 33166

PROJECT TEAM

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

ENGINEERING FIRM: ADDRESS:

CONTACT:

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

PHONE: FLORIDA COA#:

#### DESIGN CRITERIA;

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** SH INDEX

IEET	SHEET DESCRIPTION	REV	
T1	TITLE SHEET	2	
C1	SITE PLAN	2	
1.1	SITE PLAN ENLARGEMENT	1	
C2	ELEVATION	2	
C3	DETAILS	1	
C4	DETAILS	1	
P1	SPECIFICATIONS	0	
P2	SPECIFICATIONS	0	

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мг	-1		м.	

PROJECT MANAGER: \_ CARRIER: UTILITY:

DATE:



SEMMANUEL POULING IT IS A VIOLATION OF LYNGFOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A EXCUSSED PROFESSIONAL ENGINEER TO ALTE THIS DOCUMENT. UNLESS EXPLICITLY AGREED TO BY AN SOLUTIONS IN

550 SE 21ST STREET FORT LAUDERDALE, FL 33316

LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 COA#: 26983 FL COA#: DRAWN BY: EW CHECKED BY: JO

DRIVING	GENERAL VICINITY	MAP	SPECIFIC LOCATION MAP	TITLE SHEET
	\$ 18	S • Fort Lauderdale		SHEET TITLE:
Mobil (IN)	Enterprise Rent-A-Car P - SE 24th St  State Road 84 - SE 24th St	Thrifty Car Rental	Continental ■ Fidler Parking ■ EyeCare	FORT LAUDERDALE, FL 33
Specialized Motorcycles	Crowne Plaza	2300	Rent A-Car **	ADDRESS: 550 SE 21ST STREET
ndrews h	SE 23rd St SE 23rd St	Sawgrass Tours and Bus Charters	Rent-A-Car  Rent-A-Car  Rent-A-Car	HIS DOCUMENT. DIVISES EPRICITLY AGRECO TO BY ANY SOLI MINING, MY SOLUTIONS, MY. SOCIALISM ALL LIBERTY ASSOCIAL THE RELISE, ALTERATION ON MODIFICATION OF THE CONTENTS  SITE#: SFL60_3
1801 1821	2 Sn R Anthony's Coa 4 Fired Pizza	TO TO THE PARTY OF	NODE 60_3	IT IS A VIOLATION SET ANNERS ANY PERSON WILESS THEY A
Hill York Air Conditioning and Energy Solutions South Florida		SE 22nd St	9 6	EMMANUEL POUCHAS
2/01	2	Fidler EyeCare	SE 21st St  Destry Darr Designs  SE 21st St  SE 21st St  SE 21st St	SEP 25 2013
Neal Watson's Undersea Advntures	Neptune Group Yachting	SE 21st St	Boobytrap Ma Love Stuff	54073
Transform Age Management and Vitality Institute	SE 20th St — H	S Federa	3	ENSE
e ave	& Urgent Care   Sot   St   SE 20th St   Se 2	SE 20th St SE 20th St		
drews drews	Patric Jones  Law Office  Broward Medical	Milami F	ral Hwy	0 01/11/13 ISSUED FOR PERMIT REV DATE DESCRIPTION
SW S PO	SE 19th St SE 19th St	SE 19th St 17th Street Convention Center	Divers Discount & C	2 08/19/13 NODE LOCATION CHANGE 1 05/08/13 REVISED PER COMMENTS
owling or oward	Second Chance Society	Convention Center  THY Place Ft. Lauderdale	• Dr. Nels Charlie,	
Ave	SE 18th Ct	SE 18th Ct Hyatt Place Fort Lauderdale 17th Street		
Andrew	8 William DUS	Suites Airport Suites		
grh St St 2	Shumpert Jr R. (DMD)	SE 18th St	SE 20th St SE 20th St SE 20th St	FL COA#:  DRAWN BY: EW CHECKED BY:

<u>DRIVING</u> **DIRECTIONS** 

FROM CROWN CASTLE OFFICE IN MIAMI, HEAD WEST ON NORTHWEST 64TH STREET, TURN RIGHT ONTO NORTHWEST 87TH AVENUE. TURN RIGHT ONTO NORTH WEST 74TH STREET, TURN LEFT TO MERGE ONTO FLORIDA-826 NORTH, TAKE THE US-441 SOUTH EXIT TOWARD I-95 NORTH, MERGE ONTO US-441 NORTH/FL-7 NORTH. KEEP LEFT AT THE FORK AND MERGE ONTO I-95 NORTH, TAKE EXIT 25 FOR FL-84 TOWARD MARINE MILE BOULEVARD. KEEP RIGHT AT THE FORK AND MERGE ONTO FL-84 ÉAST. TURN LEFT ONTO NORTH SR-A1A NORTH. TAKE THE 3RD

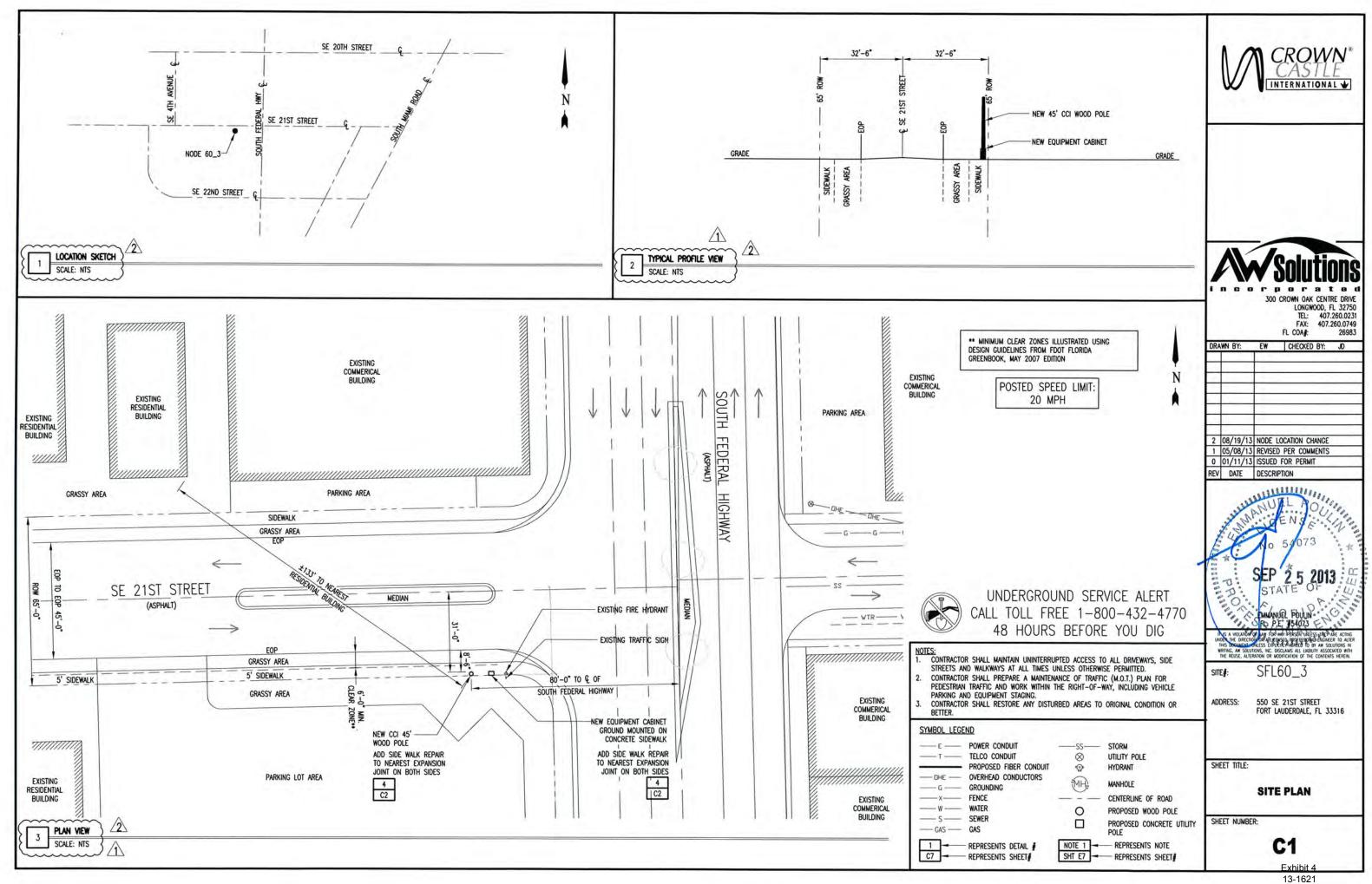


UNDERGROUND SERVICE ALERT CALL TOLL FREE 1-800-432-4770 48 HOURS BEFORE

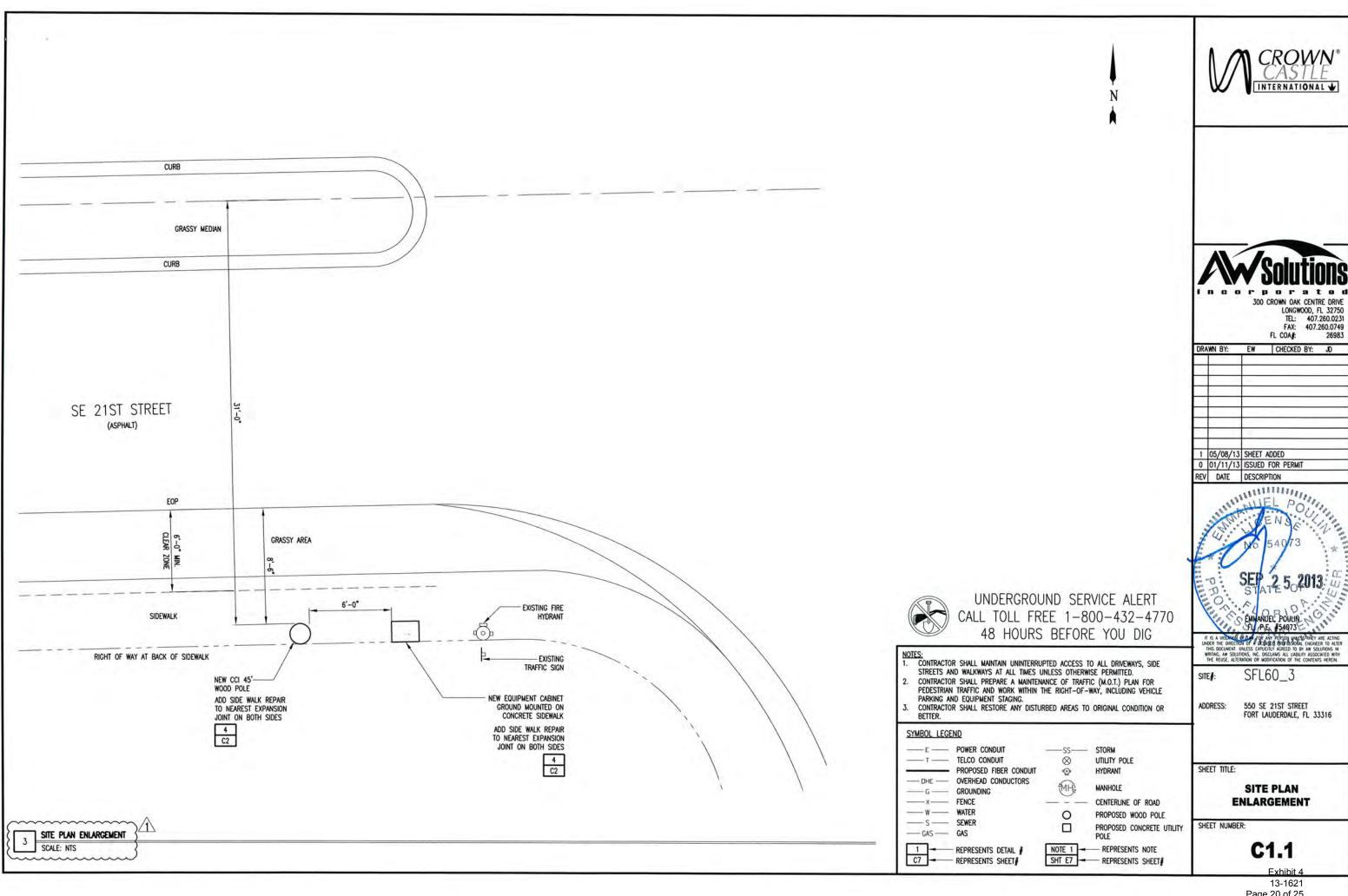
SHEET NUMBER:

13-1621

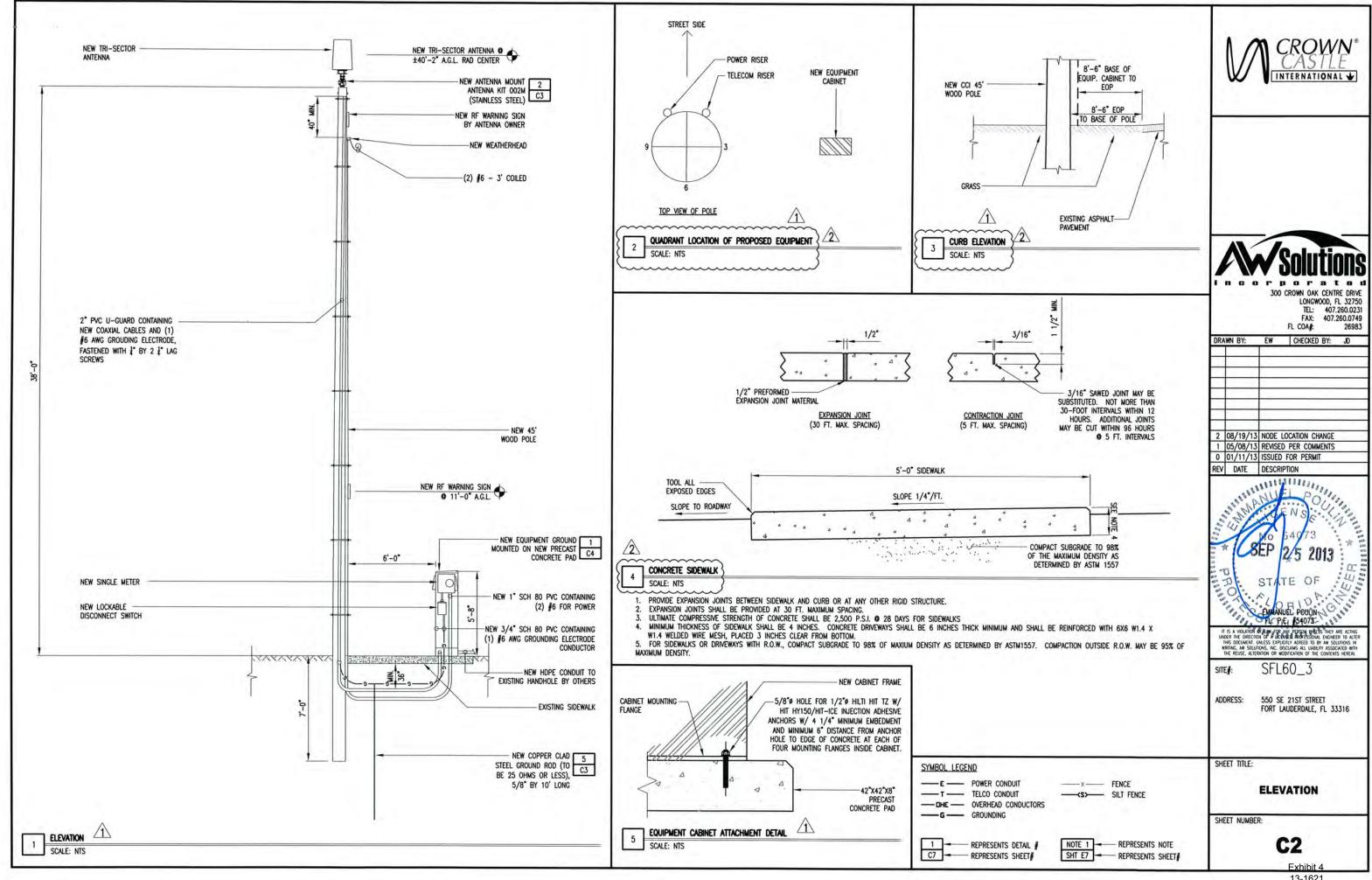
Page 18 of 25

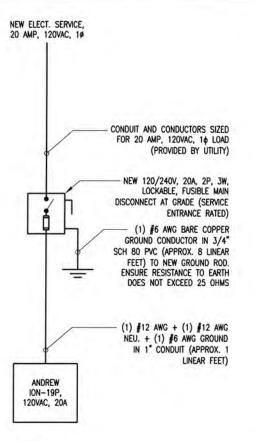


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Page 20 of 25





#### RISER DIAGRAM

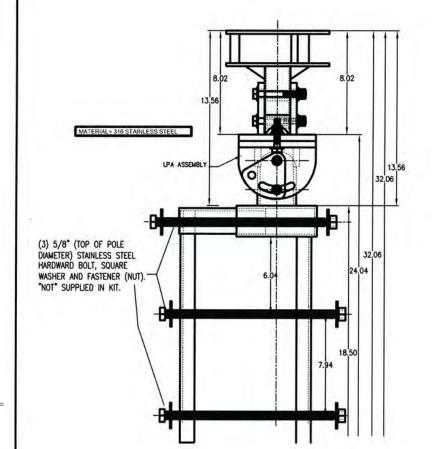
SCALE: NTS

SHORT CIRCUIT CURRENT RATING OF FUSIBLE MAIN DISCONNECT: 100kA PER FLORIDA BUILDING CODE 2010: FEEDER CONDUCTORS ARE SIZED FOR A

MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD OF 20A.

PER FLORIDA BUILDING CODE 2010: BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD. HOWEVER, THIS DESIGN CONTAINS NO BRANCH CIRCUITS.

ALL CONDUCTORS ARE TO BE COPPER WIRE WITH INSULATION TYPE XHHW. ALL ABOVE GRADE CONDUIT IS TO BE UV RESISTANT SCHEDULE 80 PVC. ALL BELOW GRADE CONDUIT IS TO BE SCHEDULE 40 PVC.



ANTENNA MOUNTING KIT (002M)

SCALE: NTS

### KOTHREIN SCALA DIVISION

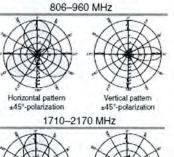
Kathrein's dual band antennas are ready for 3G applications, covering all existing wireless bands as well as all spectrum under consideration for future systems, AMPS, PCS and 3G/UMTS.

- 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 +45° upper and lower band -45° upper and lower band		
Polarization			
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 ft <sup>2</sup> (0.148 m <sup>2</sup> )		
Wind survival rating*	100 mph (160 kph)		
Shipping dimensions	32 x 20 x 19 inches (813 x 508 x 483 mm)		
Shipping weight	52 lb (23.6 kg)		
Mounting	Designed to be mounted on top of a utility pole using a custom mounting bracket supplied by the customer.		



11 10 E 110 WILL



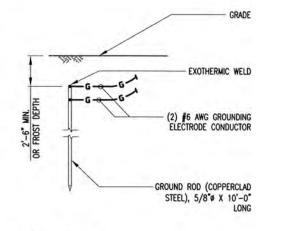
Vertical pattern

Specifications:	806-866 MHz	824-894 MHz	880-960 MHz	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Gain	11.1 dBi	11.4 dBi	11.8 dBi	12.5 dBi	13,3 dBi	13.6 dBi
Front-to-back ratio (180° ± 30°)	>23 dB (co-polar) >20 dB (total power)	>23 dB (co-polar) >20 dB (total power)	>25 dB (co-polar) >22 dB (total power)			
Maximum input power	250 watta (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)	90° (half-power)	20° (half-power)	18" (half-power)	17.5° (half-power)
Cross polar ratio Main direction 0° Sector +60°	25 dB (typical)	25 dB (typical)	25 dB (typical)	16 dB (typical)	18 dB (typical)	20 dB (typical)

#### ANTENNA SPECIFICATIONS

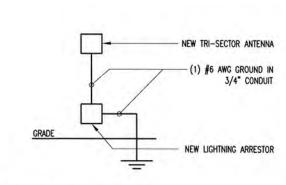
SCALE: NTS

3



GROUND ROD DETAIL SCALE: NTS

GROUND ROD TO BE DRIVEN 10' VERTICALLY.



ANTENNA GROUNDING SCHEMATIC

SCALE: NTS





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

1	05/08/13	REVISED PE	R COMMENTS PERMIT
0	01/11/13	ISSUED FOR	PERMIT
REV	DATE	DESCRIPTION	

DRAWN BY:



IT IS AND THE WAY TO LET YOU ANY PERSON THE SOUTH ARE ACTING UNDER THE AREAST OF THE ADMINISTRATION OF THE CONTROL FROM THE RUSHE, ALL REPRINT ON BOUNDATION OF THE CONTROLS FEED.

SFL60\_3 SITE#:

550 SE 21ST STREET FORT LAUDERDALE, FL 33316

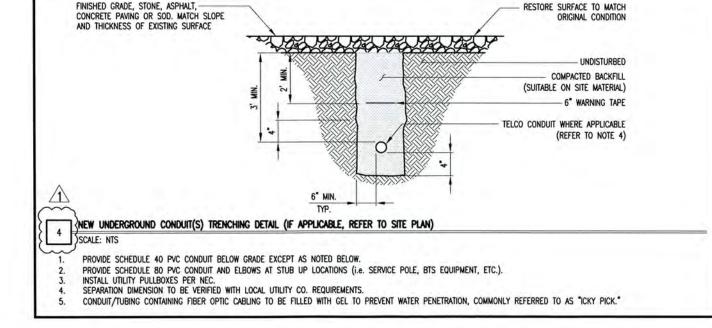
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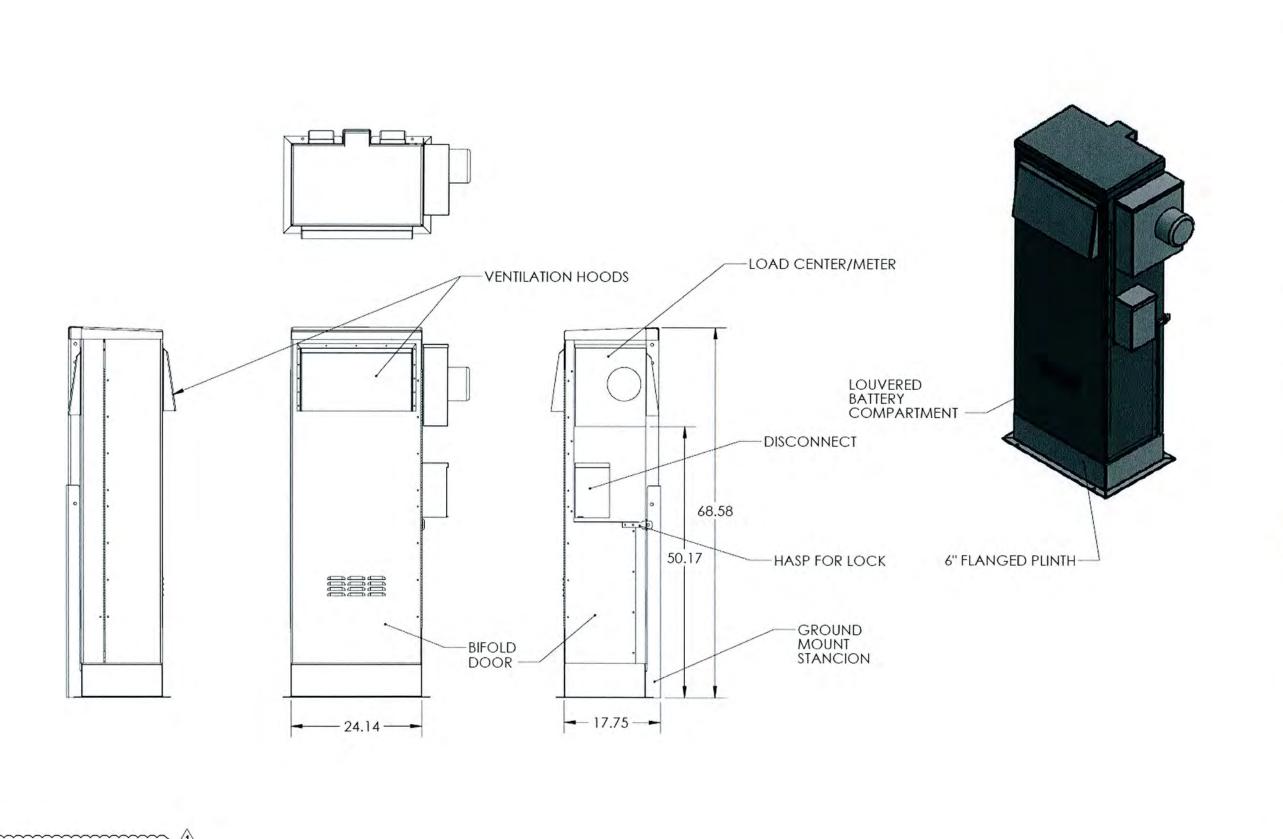
DETAILS

SHEET NUMBER:

C3

13-1621 Page 22 of 25





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: JD 1 05/08/13 REVISED PER COMMENTS
0 01/11/13 ISSUED FOR PERMIT
REV DATE DESCRIPTION



SFL60\_3 SITE#:

ADDRESS: 550 SE 21ST STREET FORT LAUDERDALE, FL 33316

SHEET TITLE:

DETAILS

SHEET NUMBER:

C4

13-1621

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— CONTRACT OVERVIEW

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 INTENT OF THIS DOCUMENT IS NOT TO DESIGNATE THE MEMS AND METHODS OF PROCEDURE OF THE WORK. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE SOLLLY RESPONSIBLE FOR ALL CONSTRICTION MEAN 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

UPPLEADINS:
FBC — FLORIDA BUILDING CODE 2010
ASC — AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS
IEEE — INSTITUTE OF ELECTRICAL AND ELECTROMICS ENGINEERS
NEC — HANDAU, ELECTRICAL LODE
NEMA — NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
HEALA— NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

UL — UNDERWRITERS LABORATORIES
NSPC — NATIONAL STANDARD PLUMBING CODE

NSPC - INVIDUAL SIAMUMOU PLUMBRING LOUR.
INC - INTERNATIONAL RECEIVANION, CODE
INFPA - NATIONAL REC PROTECTION ASSOCIATION
OSHA - OCCUPATIONAL SEPET AND HEALTH ADMINISTRATION
ANS/TIA - TELECOMMUNICATIONS INDUSTRY ASSOCIATION - 222-6 STANDARD
ALL COMPRISHING STATE, COUNTY AND LOCAL CODES AND CROPMANCES
HE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE
RECYMBERISATICS

REQUIREMENTS.
THE ENGINEERING DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. THE ENGNEEMED DRAWINGS SHOW PROMORPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTINUE.

INCIDENTAL MORK MAY ALSO BE RECESSARY IN AREAS NOT SHOWN ON THE PROMILERING FORWINGS OUR TO CHANGES
AFFECTING EXISTING ELECTRICAL OR OTHER SISTEMS. 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
REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.

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

MINOR DEVALUATIONS FROM THE DESIGN LAYOUT ARE AMTICIPATED 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.

UNITED WHITHOUT A CHANGE UNDER.
GENERAL COIL, STRUCTURAL, ELECTRICAL 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

continction.

The general notes contained herein are part of the plans and specifications, and are to be computed with in all respects. The most restrictive notes specified are to take precedence. Certain sections of the general notes may not apply to every site. The contractor is to comply with all applicable general.

all general notes and standard details are the minimum requirement to be used in conditions which are

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

REPRESENTATION OF TRUE NORTH OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF THE TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY DRAWING AND ANY SURVEYOR'S MARKING AT THE SITE FOR THE ESTABLISHMENT OF THE TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATIONS OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATIONS OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE PROPERTY OF THE WORK OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE WORKING TO MORTH ORDITATION OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE WORKING DRAWINGS AND THE TRUE MORTH ORDITATION OF THE WORKING TO MORTH ORDITATION OF THE WORKING THE WORK OF THE WORK OF THE WORK OF THE WORK OF THE WORK ORDITATION OF THE WORK OF

THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND

THE CONTRACTOR STALL USE ADDICATE NUMBERS OF SALLEN WORKEN WHO ARE THOROUGHLY TRAINED AND 
EXPERIENCED IN THE NECESSAYY CRAITS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS 
AND METHODS NEEDED FOR PROPER PEFFORMANCE 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 MIDE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE 
CONTRACTOR FURTHER ARREST TO RIDEMINITY AND HOLD THE DESIGN DEGINEER HABILESS FROM ANY AND ALL 
LABBILITY, 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 COMPLANCE DURING THE PROGRESS OF THE WORK. THE ENGINEER WILL NOT ADMSE NOR PROVIDE DIRECTION AS

TO SAFETY PREDUITIONS AND PROGRAMS.
THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY OF THE SECURITY OF THE SITE UNTIL COMPLETION OF THE CONSTRUCTION.

14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL DIFFER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERPRUPTED.
5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT TO AVOID DELAYS IN THE CONTRACT SCHEDULG OR OTHER

JOB SITE DURING THE PEPTORAMINE OF THIS CONTRACT TO AVOID DELAYS IN THE CONTRACT SCHEDULE OR OTHER MORN PERFORMED IN THE WORNTY OF THE CONSTRUCTION AREA.

5. THE CONTRACTOR SHALL SUBBILT A CONSTRUCTION SCHEDULE TO THE PROPERTY OWNER WELL IN ADVANCE OF THE STARTING DATE OF THE WORK. THE OWNER SHALL ALSO BE MOTIFIED OF A CHANGE IN THE CONSTRUCTION SCHEDULE. THE CONTRACTOR IS RESPONSIBLE FOR PULLING THE BULDING PREMIT AT THE LOCAL JURISDICTION AS THE CONTRACTOR OF RECORD, AND SHALL PROVIDE THE JURISDICTION WITH ALL PROOF REQUIRED TO GEPEATE AS THE CONTRACTOR OF RECORD, AND SHALL PROVIDE THE BULDING PREMIT AT THE LOCAL JURISDICTION AS THE CONTRACTOR OF RECORD, AND SHALL PROVIDE THE RESPONSIBLE FOR PROVIDING HIMPLE MOTICE TO THE BULDING MSPECTION OF THE SHALL BE RESPONSIBLE FOR PROVIDING AMPLE MOTICE TO THE BULDING MSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 4B HOURE TO FOLLY CUSED BY INSPECTIONS. AND EXTENSION IN THE CONTRACTOR SHEEP SHALL NOT BE GRANTED DUE TO DELAY CUSED BY INSPECTIONS.

6. EACH CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES, BONDS AND INSURANCES. DOCUMENTATION SHALL BE PROVIDED THE MONEY PROT TO THE WORK.

7. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE COVERNING ABENCY, AND BY LAW SHALL BE SAMULABLE FOR INSPECTION ALL THE SHE CONTRACTOR RESPONSIBILE FOR THE SHE FOR THE PURPOSE OF DOCUMENTING ALL AS-BULTS CHANCES, REVISIONS, ADDIBLY, OR CHANGES ORBITIS THE SHE FOR THE PURPOSE OF DOCUMENTING ALL AS-BULTS CHANCES, REVISIONS, ADDIBLY OR CHANGES ORBITIS. THE SHE FOR THE PURPOSE OF DOCUMENTING ALL AS-BULTS CHANCES, REVISIONS, ADDIBLY OR CHANGES ORBITIS.

MANTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILTS CHANGES, REVISIONS, ADDENDA, OR CHANGES ORDERS.

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

THE CONTRACTOR IS TO CONTRACT BOTH LOCAL POWER AND TELEPHONE UTILITY COMPANIES BEFORE CONSTRUCTION BEGINS TO ORDER SERVICE, OBTAIN AND PAY ALL FEES ASSOCIATED WITH CONSTRUCTION, SCHEDULE INSTALLATION OF SERVICE, COORDINATE CONDUIT RETYREMINATION PORT AND ORTHAN ANY FIELD MATERIALS THAT MAY BE SUPPLIED BY THE UTILITY COMPANIES AND INSTALLED BY THE CONTRACTORS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACHING, SHORING, TES, FORM WORK AND THE POPULATION OF ALL MOVED OR BURNE CONSTRUCTION.

PROTECTION OF ALL WORK DURING CONSTRUCTION TO AVOID DAMAGE, COLLAPSE, DISTORTION, MISALIGNMENT AND

24. THE CONTRACTOR SHALL BE RESTANDED FOR ALL ELEMENTS BOULDING, STORMING, ILES, YORN MORE AND THE PROTECTION OF ALL MORE DURING CONSTRUCTION TO AVOID DAMAGE, COLLAPSE, DESTORTION, IMPAULABLE AND ALTERATION OF ROCEING WARRANTES.

25. THE CONTRACTOR SEPONSEIBLE TO PROMDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING ASSENCY.

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

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

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

29. ALL MATERIALS MIST BE STORED IN A LEVEL AND DRY IN COLOTION AND IN A MANNER THAT WILL NOT DESTRUCT THE FLOW OF OTHER WORK RELATED OR NOT TO THIS CONTRACT. ANY EQUIPMENT OR MATERIAL STORAGE MUST MEET ALL RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL INSPECT THORROUGHY ALL MATERIALS AND EQUIPMENT PROOR TO THIS MISTALLISTIC NUMBERS. SHALL MATERIALS AND DECOMPLENT PROOR TO THIS MISTALLISTIC PROPERTY INSTRUCTIONS.

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

11. EXCEPT FOR WARRING SCORS SUCH AS TON TESPASSING," AND SIGNS THAT STATE OWNERSHIP AND EMERGENCY TELEPHONE MUMBERS, NO SIGN SHALL BE LOCATED ON THE TOWER.

32. ALL EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMS.

1.2 ENSTING CONDITIONS AND STRUCTURES

1. BEFORE BEGINNING WORK AT THE SITE, THE CONTRACTOR SHALL INSPECT THE EXISTING COMPOUND OR BUILDING AND DETERMINE THE EXTENT OF EDSTING FINISHES, SPECIALTIES, EQUIPMENT AND OTHER TIESES WHICH MUST BE REMOVED AND REINSTALLED IN ORDER TO PERFORM THE WORK UNDER THIS CONTRACT. THE CONTRACTOR MUST VERRY ALL OBMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STATING WORK. NO EXTRA CHARGE OR COMPENSIONON AND DISTALL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMESSIONS AND DIMESSIONS HOLD GROSSIT ON THE CONSTRUCTION DRAWNOS. 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 MAD ASSESTED CONSTRUCTION PRACTICES.

BEFORE PROCEEDING WITH THE MOVEMENT, ALL MADE SAME BE PENGINEED IN A MOVIMINATION DEVIATION OF THE CONTINUE ON 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.

AT THE STE.

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 PRIOR TO BIDDING.

NO PLEA OF KNORANCE OF CONDITIONS THAT EXIST, OR OF DIPPOLITIES THAT MAY BE ENCOUNTERED OR OF ANY
OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED WILL BE ACCEPTED AS A REASON FOR MAY
FALLINE OR OMISSION ON THE PART OF THE CONTRACTOR TO FILLFILL 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 accounit hinself 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 MATERALS AND EQUIPMENT AND ANY AND ALL DEFICULTIES THAT MAY BE ENCOUNTERED DURBNG THE EXECUTION OF THE ALL MORK IN ACCORD WITH THE CONTRACT DOCUMENT THE LOCATION OF DISTING UNDERGROUND UTILITIES HAVE NOT BEEN VERSIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED WITHIN THE LIMITS OF

THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED THE CONTRACTOR FAILURE TO LOCATE ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK.

SHOULD ANY ERROR OR INCONSISTENCY APPEAR IN THE DRIWINGS OR SPECIFICATIONS, THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK MUST MAKE MENTION OF THE SAME TO THE DENORER AND OWNER FOR PROPER ADJUSTMENT AND IN NO CASE PROCEED WITH THE WORK IN UNCERTAINTY OR WITH INSUFFICIENT DRIWINGS. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION 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 ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRIWINGS, ANY DOING ANY WORK, NO EXTRA CHARGE OR CONSIDERATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRIVINGS, ANY DOING AND SUBCEPTION OF THE OWNER FOR PROSCEDES WITH THE WORK IN THE AFFECTED AREAS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR IS REPRESENTATIVE.

OWNER REPRESENTATIVE FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER 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, MOTEY ENGINEERS AND INDICATIONS OF EXISTING PRODUCT TYPES SHOWN ON THE DRAWNESS ARE BELIEVED TO BE ACCURATE. IF THEY ARE DISCOVERED TO BE INACCURATE, MOTEY ENGINEERS IMMEDIATELY AND DO NOT PROCEED WITHOUT INSTRUCTIONS.

PRIOR TO STREAMING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGES WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGES TO NEW OR DOSTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE MANDATEDLY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL INFO ALL PRECAUGH OF HE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL INFO ALL PRECAUGH OF THE SATISFACTION OF THE PROPERTY OWNER. THE STRUCTURE, INTEGRITY OF EDISTING STRUCTURES. WHICH HE ALL PRECAUDING ANY DAMAGES AREAS.

1. THE CONTRACTOR SHALL IRROTTED EXISTING PROPERTY LINE MONABILITHON, ANY MONUMENTATION DISTURBED ON DESTROYED, AS JUDICED BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONABILITION, ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDICED BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE ON THE PLANS, THE CONTRACTOR SHALL PROVIDE THE STRUCTURE, AND PLANT TO PROPERTY CONTRACTOR SHALL PROVIDE BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S SHALL PROVIDE THE STRUCTURE, AND PLANT TO PROPERTY CONTRACTOR SHALL BE ADDRESSED AND THE PLANS.

3. HER CONSTRUCTION ADDRESS OF OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED TO PARTITURE, AND PRANT COORDINATED THE PLANS, THE CONTRACTOR SHALL BE ADDRESSED AND PROVIDED THE OWNER AND RELIEVED TO EXIST IN

TAIN FLOW FOR ALL EXISTING UTILITIES.

Mannan Flow for All Existing Utilities.
The Contractor Shall Restore all Public or private property damaged or removed to at least as good of condition as before disturbed as determined by the owner or owner's representative.
Protect privates surfaces including Jumbs and Heads of Openings used as passagemans through which ecouplement and materials will pass.
Provide protections for ecouplement room surfaces prior to allowing couplement or materials to be moved in the surfaces including couplement.

OVER SUCH SURFACES MAINTAIN FINISHED SURFACES CLEAN, UNARMED AND SUITABLY PROTECTED UNTIL JOB SITE IS ACCEPTED BY THE

OWNER. IN THE EVENT OF DAMAGE TO AN EXISTING STRUCTURE, THE CONTRACTOR SHALL NOTIFY THE OWNER OR ITS REPRESENTATIVE IMMEDIATELY, AND THEN PROMPTLY MAKE ALL REPLACEMENTS AND REPAIRS TO THE SATISFACTION OF THE OWNER. THE OWNER MAY ELECT TO USE A THIRD PARTY CONTRACTOR TO PERFORM THE REPAIRS. ALL EXPENSES ASSOCIATED WITH THE REPAIRS AND REPLACEMENTS SHALL BE PAID BY THE GENERAL CONTRACTOR SELECTED FOR THIS

CONTRACT.
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.

J. ACCESS

USE MOST DIRECT ROUTE FROM PUBLIC STREET AS AGREED TO BY COMPOUND OR BUILDING OWNER. FOR ACCESS TO AN EXISTING BUILDING INTERIOR, USE LOADING DOCK AS AGREED TO BY BUILDING OWNER. COCORDINATE WITH SITE OWNER CONSTRUCTION SCHOOLULE & SITE ACCESS. ENSURE THAT THE OWNER OF PARENT PARCEL IS NOTIFIED IN WITHING OF CONSTRUCTION SCHOOLULE & SITE ACCESS. ENSURE THAT THE OWNER OF PARENT PARCEL IS NOTIFIED IN WITHING OF CONSTRUCTION ACTUMENTS.

A LIST OF WORKERS INVOLVED IN THIS PROJECT SHALL BY PROMANCE TO THE OWNER OF PARENT PROPERTY OF THE OWNER OF PARENT SHALL BY PROJECT SHALL BY PROMANCE TO THE OWNER OF PARENT PROPERTY OF THE OWNER OF PARENT PROPERTY OF THE OWNER OF PARENT SHALL BY PROJECT SHALL BY PROJECT TO THE OWNER OF PARENT PARENT

A LIST OF MOVINGES INVOLVED IN TITLE PROJECT STALL DE PROVINCIO TO THE FRANCHIST STITLES OF THE PROPERTY.

THE CONTRACTOR SHALL COORDINATE ALL SPECIAL CONSIDERATIONS OF CONSTRUCTION SUCH AS NOISY OPERATION, INTERRUPTION OF ANY MECHANICAL AND/OR ELECTRICAL SERVICES, MATERIAL DELINERES AND STORAGE, STAGING AREA, CRAINE LIFTS WITH THE OWNER PROOF TO THE WORK.

CONTRACTOR SHALL COORDINATE WITH AN OWNER REPRESENTATIVE, THE TEMPORARY REMOVAL OF FENCE, LANDSCAPING A MY EXPECTED DAMAGE TO ACCESS ROAD OR ADJACENT REPAIR OF PROPERTY PROOF TO COMMENCING THE WORK.

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

CONTRACTOR TO MOTHEY PROPERTY OWNER OF CONSTRUCTION START DATE WELL IN ADVANCE OF CONSTRUCTION.

4 STIE MAINTENANCE
REMOVE STANING OR REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS
ACCUMULATIONS OF DEBRIS PROMPILY, AT LEAST DAILY, CONFINE DUST PRODUCING OPERATIONS DURING CUTTING,
DRILING, PAINTING AND FINISHING, THERE SHOULD BE NO OVER SPRAYING PAINT IN PARKING AREA. VACUUM
IMMEDIATELY AFTER COMPLETION.
THERE SHOULD NOT BE ANY CREATION OF NOISE OUTSIDE THE NORMAL HOURS OF 7 AM TO 6 PM, UNLESS OTHERWISE

THERE SHALL NOT BE ANY CREATION OF MOISE OUTSIDE THE MORBAL HOURS OF 7 AM TO 6 PM, UBLESS OTHERMISE ARREED UPON WITH THE OWNER, MOSE SHOULD BE KEPT TO A BINNIUM THROUGHOUT CONSTRUCTION. NOISE AND DUSTING BUILDING STRUCTURE WERATION GENERATED BY CONSTRUCTION PROCEDURES, EQUIPMENT, TOOL AND OPERATIONS ARE TO BE KEPT TO A PRACTICABLE MINIMAN, WHERE USE OF HIGH MOSE LEVEL COUPMENT IS UNAVOIDABLE. AND CAN BE HEARD, CONFINE TO HOURS BEFORE 7 A.M. AND AFTER 6 P.M. MONDAY THROUGH FRIDAY OR AS AGREED TO BY BUILDING OWNER.
THE CONTENCTOR IS TO PROVIDE OWNER.

THE CONTENCTOR IS TO PROVIDE OWNER.

WITHIN 75FT OF TRIVIEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY STE, YARD AND GROUNDS, REMOVE AND
DESPOSE LEGALLY OFF SITE ALL RUBBERN, MISTE MATERIALS, LITTER, AND ALL FOREIGN SUBSTANCES, REMOVE
PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED

SURFACE. 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 THE SITE AND/OR BUILDING SECURITY SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION IN ORDER TO

PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE PRESIDES. DISTING AND NEW EQUIPMENT AND MATERIALS REMAIN THE CONTRACTOR'S RESPONSIBILITY AT ALL TIME DURING CONSTRUCTION. THE TEMMAT'S WORKSS AND EGRESS OF THE SITE AND/OR BUILDING SHALL BE MAINTAINED THROUGHOUT

CONSTRUCTION.
THE CONTRACTOR SHALL TAKE ALL MEASURE NECESSARY TO MAINTAIN POLLUTION CONTROL, COMPLY WITH ALL
COVERNING REGULATION PERTAINING TO ENVIRONMENTAL 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
PERMANENT POWER IS ESTABLISHED, ALL CONTRACTORS MAY USE THE SERVICE CONNECTION FOR PRODUCTION THE CONTROLLER STABLE CONSIDER THE MINES, POWER AND USET AND END AVAILABLE AT THIS STABLE SHEET, ALL CONTRACTORS MAY USE THE SERVICE CONNECTION FOR PRODUCTION WORK ONLY, PROVIDED THAT ELECTRICAL CORDS AND CONNECTIONS ARE FURNISHED BY THE CONTRACTORS AND ARE SURVINED TO PROVIDE THE CONTRACTOR STABLE STA

DEMOLITION AND EXISTING STRUCTURAL ALTERATION

2.— DEBIOLITION AND EXISTING SHRUGHISTON, INLEGGISHED
2.1 DEBIOLITION SPECIFICS
3.1 GENERAL CONTRACTOR IS TO DEMOUSH AND REMOVE FROM SITE (AND DISPOSE OF APPROPRIATELY) ALL ITEMS NOTED
FOR DEBIOLITION IN THE ARCHITECTURAL, CML, ELECTRICAL AND/OR STRUCTURAL DRAWNICS, INCLUDING BELOW REDS
FOUNDATION AND STRUCTURES. CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DESPOSAL OF
CAUSISIEST & MATERIALS.

EQUIPMENT & MATERIALS.
GENERAL CONTROLTOR IS TO EXERCISE UTMOST CARE DURING DEMOLITION AND PROMPTLY INFORM THE ENGINEER OF ANY DEVARION TO THE EXISTING STRUCTURE FROM WHAT IS SHOWN IN THESE PLANS PROOF TO PROCEEDING WITH THE

WORK.

GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SHORING, BRACING, PROVIDING LATERAL SUPPORT, AND FOR MANTANING THE INTEGRITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF THE DEBOLITION AND CONSTRUCTION AND SHALL PROVIDE, IF REQUIRED, SIGNED & SEALED SHOP DRAWINGS, BY A REGISTERED PROFESSIONAL ENGINEER, FOR THE SHORING OF ALL MALLS, BEAGS, SUARS, ROOF JOISTS, OR CHIEFE ELEVATED STRUCTURAL ITEMS, THAT ARE

HAVING THE SUPPORT BELOW NOTED FOR DEMOLITION.
ANY DAMAGE DUE TO DEMOLITION, OR OTHER CONSTRUCTION ACTIVITIES, DONE TO ANY EXISTING SURFACE TO REMAIN
SHALL BE REPRIRED TO MAICH EXISTING AT NO ADDITIONAL COST TO THE OWNER.

2.2 CUTTING & PATCHING

1. DO NOT DRILL OR CUT EXISTING FLOOR JOISTS, BEAMS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS DO NOT DRILL OR DE 20STING FLOOR JOSTS, BERNS, COLUMNS OR DIFIER STRUCTURAL ELEBERTS UNLESS SPECIFICALLY MOICATED, DRILL SABS WHERE APPROVED, CORE DRILL CIRCULAR OPENINS THROUGH CONCRETE SLAB. LINE DRILL FOR RECTAMOLUAR OPENINGS. WAR EXPENINGS OF PROPER SIZE FOR COMDUIT, DUCTS, PIPES AND OTHER TIELS PASSING THROUGH OPENINGS. WARE ALL NEW HOLES OR OPENINGS BE WEATHER TIGHT OR FIRE SAFE AS REQUIRED BY LOCAL BULLDING CODES & ORDINANCES. PREPARE, SUBLID AND RECENT APPROVAL OF SLEEVES AND OPENING DRIVINGS BEFORE LOCATING SLEEVES AND OPENINGS, IM NEW CONSTRUCTION AND BEFORE DRILLING EXISTING STRUCTURE. SHOW EACH OPENING AND SLEEVE IN

THE ENTIRE PROJECT.

SEAL WATER TIGHT 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 PROFERENCINGS SHALL BE SEALED WITH FIRE RETARDANT COMPOUND MEETING U. CAJOSA.

THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH DEPOSITION OF THE PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH DEPOSITION OF THE PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH DEPOSITION OF THE PROVIDE THE PROVIDE THROUGH THROUGH

THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL APPROVED MAILHARLS TO FILLY-SEAL PENETRATIONS INTOLOGY. 
PIRER RATED ASSEMBLIES.
WHERE CUTTING OF EXISTING SURFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK AND PARTOR THISH IS NOT INDICATED, FILL RESULTING OPPINES AND PARTOR THE WORK AND PRIST HIS HANDLE DESTING SURFACES.
EXCEPT IN SPACE WHERE NO WORK UNDER THIS CONTRACT IS REQUIRED, ENCLOSE EXISTING AND NEW CONDUITS, DUCTS, PIPES AND SMILLAR ITEMS IN FURRING WHERE SUCH ITEMS 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).
X-RAYS ARE TO BE TAKEN PROOR TO DRILLING.
CORE LOCATIONS IF REQUIRED SHALL BE CHOSEN SO AS TO AVOID CUTTING ANY REINFORCING BARS, FIRESTOP FLOOR OR MALL PREVENTANCING.

ROOF PENETRATIONS.

REPAIR, PATCH, FINISH AND/OR REFINISH AS APPLICABLE TO MATCH ADJACENT EXISTING FINISHES THOSE EXISTING SURFACES DAMAGED OR NEW PROPOSED SURFACES DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT, WHERE CONDUITS, DUDITS, PIPES AND SAMULAR ITEMS ARE SHOW TO BE INSTALLED IN EXISTING WALLS OR PARTITIONS, INSTALL THE TIMES AND PATCH THE WALLS OR PARTITIONS INSTALL THE TIMES AND PATCH THE WALLS OR PARTITIONS TO MAKE THE INSTALLATION HOT DISCERNIBLE IN THE FINISHED WORK.

INSTALLATION NOT DISCENSILE IN THE FINISHED WORK.

WHERE A ROW CUTTING IS NOT SCHEDULED, INSTALL NEW CONDUTS AND PIPES IN EVERY CASE, AND NEW DUCT

WHERE POSSIBLE ADOVE DISTRING CELING, REMOVE DISTRING CELING AS NECESSARY, AFTER INSTALLATION OF

CONCEALED WORK, REINSTALL REMOVED CELING, AND PARTON HAD REFINISH TO MATCH ADJUNCTH UNREMOVED COLUNGS,

REPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING MY DUSTRING RUST AND APPLYING

3.— SITE WORK
3.1. CLARRING AND CRUBBING
1. CLEARING AND CRUBBING
1. CLEARING OF TREES AND VECETATION ON THE SITE SHOULD BE HELD TO A MINIMAM. ONLY THE TREES NECESSARY FOR THE CONSTRUCTION OF THE FACILITY SHALL BE REMOVED. ANY DAMAGES TO PROPERTY OUTSIDE THE CONSTRUCTION LIMIT SHALL BE REPARKED OR REPLACED AT THE CONTRACTOR'S DOPENSE.
2. THE CONTRACTOR SHALL. PROTECT EXISTING TREES, WEEKTATON, LANDSOUPING MATERIALS AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING OR REMOVAL WHICH MOST BE CHANGED BY CONSTRUCTION ACTIVITIES.
3. TRIM EXISTING TREES AND VEGETATION AS RECOMMENDED BY THE ARBORIST FOR PROTECTION DURING CONSTRUCTION.
4. CLEAR AND GRUB STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND STE IMPROVEMENT.
5. STRIP AND STOCKPILE TOPSOIL.

STRIP AND STOCKPILE TOPSOIL
PROTECT TEMPORARLY ADJACENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS. MARK DESIGNATED TREES AND VECETATION DURING CONSTRUCTION ACTIVITIES.
PROVIDE TEMPORARY EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL.
REMOVE AND LEGALLY DISPOSE OF CLEARED MATERIALS.

<u>acayation and backfil</u> UL suitable Borrow Material for Back fill of the site shall be included in the Bid. Excess topsoil and insuitable material shall be disposed of off site at location approved by coverning agencies prior to distoral.

All site fill shall meet selected fill standards as defined by the owner's representative on the drawings or geotechnical report recommendations.

\*\* EXCIVATION, TECHNING, FILLING, COMPACTING AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS, ACCESS ROOM AND UTILITIES. THIS PROJECT INCLUDES:

ALL MATERIALS FOR SUBBASE, DRAINAGE FILL, BACK FILL AND CRAVEL FOR SLABS, PAVEMENT AND IPROVENIENTS.

IMPROVEMENTS.

ROCK EXCANTION WITHOUT BLASTING.

SUPPLY OF ADDITIONAL MATERIALS FROM OFF SITE AS REQUIRED.

REMOVAL AND LEGAL DISPOSAL OF EXCANTED MATERIALS AS REQUIRED.

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

THE COMPACTING UNDER STRUCTURES, BUILDING SLABS, STEPS, PAYEMENT AND WALKWAYS SHALL BE 95% MAXIMUM DENSITY, ASTIM DISPOST, TESTED IN EACH OF THE COMPACTING LAYERS AT EACH COMPACTING SITE, OR AT LEAST IN

DENSITY, ASTALD—1557, TESTED IN BUCH OF THE COMPACTING LAYERS AT EACH COMPACTING STIE, OR AT LEAST IN EACH LOCAL PER YARDS OF MATERIAL VOLUME.

THE COMPACTING UNDER LAWNS OR UNPAVED AREAS SHALL BE 85% MAXIMUM DENSITY, ASTM 01557.

THE COMPACTED LAYERS SHALL NOT EXCEED 8 INCHES.

AREAS THAT ON NOT MEET ASTM 0—1557 REQUIREDURTS MUST BE RECOMPACTED AT THE CONTRACTOR'S EXPENSES.

ALL TERRICH EXCANATIONS AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA

MTIETTE UTISTABLE SOIL CONDITIONS EXIST, LINE THE GRUBBED AREAS WITH GEOTEXTILE FABRIC (MIRAFI 500X OR APPROVED EQUIVALENT) PROOR TO PLACING FILL OR BASE MATERIAL.

THE USE OF EXPLOSIVE IS PROHIBITED ON STEE.

ALL EXCONATION ON HINCH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIAL HORIZONTAL, UNDISTURBED AND BE FREE FROM LODGE MATERIAL AND EXCESS GROUND WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROMIDED IF REQUIRED.

PROVIDED IF REQUIRED.

ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH OTHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STUBBLIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE

THICKNESS.

BACK FILL SHALL USE APPROVED MATERIALS CONSISTING OF LOAM, SANDY CLAY, SAND, GRAVEL OR SOFT SHALE AND SHALL BE FREE FROM CLODG OR STONES OVER 2 ½".

AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE AND BEFORE BACK FILLING, ALL EXCLANDING SHALL BE CLEM OF UNSUTRABLE MATERIALS SUCH AS YEGETATION, DEBRG, TRUSH AND ANY FOREIGN

DIRANMOE
THE CONTRICTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AWAY FROM BUILDING OR EQUIPMENT ON THE
STIE AT ALL TIMES. SLIT 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 DURING THE

DOURSE OF MONO.

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

4 EROSION CONTROL

CONTROL MEASURES AS REQUIRED BY LOCAL CODES
AND ORDINANCES TO PROTECT EMBANISHEMS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN
STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCE, STRAW BALES, SEDIMENT BARRIERS AND CHECK DAWS.

STROW BALLS, SUMMENT BOYCHES, AND CREAT WAS A DESCRIPTION OF THOSE SHOWN ON DRAWNOS WHERE DETERMINED RECESSARY BY ACTUAL SITE CONDITIONS.
PRORA TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR FROM THE SITE.

TO OR FROM THE SITE.

THE CONSTRUCTION DUT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROGHT OF WAYS. THIS MAY REQUIRE PERSONC TOP DRESSING WITH STONE AS CONDITIONS DEMAND, REPAR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENTS. ALL MATERIALS SPILLED, DROPPED MASHED OR TRACKED FROM VEHICLE OF SITE ONTO ROMANY OR HITO STORM DRAKES MUST BE REMOVED.

MALEDATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EUTS, ALL PERMETER EROSION CONTROL.

DEVICES AND STORMMATER MAYAGEMENT DEVICES SHALL BE INSTALLED PROOR TO ANY OTHER CONSTRUCTION.

ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING, NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION AND DETERTION FACILITIES ARE CONSTRUCTED. SILT BURRIERS SHALL BE DONE UNTIL SILT BURRIER INSTALLATION AND DETERTION FACILITIES ARE CONSTRUCTED. SILT BURRIERS SHALL BE PLACED AT ALL DOWN-STREAM TOE OF CUT MAY PER LEGISLATION.

THE LOCATION OF SOME EROSION CONTROL, DEVICES MAY HAVE TO BE ALTERED FROM WHAT IS SHOWN ON THE APPROVED HAMS IF DRAWNER PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAWNERS.

THE LOCATION OF SOME EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM WHAT IS SHOWN ON THE APPROVED PLANS IF DRINNAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRINNAGE PATTERNS. IT IS THE CONTROLTER RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR DRINNAGE PATTERN CREATED AT VAROUS STACES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROL EROSION DURING MAY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE EXPONEET MADDATELY. MAY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN (7) DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.

THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSIT AND EROSION, ALL SEDIMENT CONTROL WILL BE MANTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS AND RESIDENCE AND ALL ROADS AND ALL RO

WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILZED WITH PERMANENT VEGETATION AND ALL ROADS AN DRIVEWINS HAVE BEEN COMPLETED. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

9. FALURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE UGB SITE LIMITS SUCH MEASURES ARE CORRECTED.

10. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE

UTILIZED FOR EROSION CONTROL.

ALL OPEN SWALES MUST BE GRASSED, AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION, ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN (7) DAYS OF CONSTRUCTION.

SEEDING AND MULICHING OF THE SITE MILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF

DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A PERGOD OF ONE YEAR. SEEDBED PREPARATION: AREA TO BE SEEDED SHALL BE LOOSE AND FRABLE TO A DEPTH OF AT LEAST 3'. THE TOP LAYER SHALL BE LOOSENED BY PAVING, DESKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. IN LIEU OF SOLI TEST RESULTS, APPLY SO LISS, OF DOLOMING LIMESTOONE AND 25 LBS. OF 10-10-10-10 FERTILIZER PER 1000 SF, HABROW OR DISK LIMESTONE AND FERTILIZER INTO SOIL TO A DEPTH OF AT LEAST 3' ON THE SLOPES FLATTER THAN

SEEDING: APPLY 5-6 LBS. PER 1000 SF. OF KENTUCKY 31 TALL FESCUE, APPLY SEED UNIFORMLY WITH A CYCLONE SEEDED DRILL CULTIPACKER SEEDER OF HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER RECOI STEEP SLOPES ONLY) ON MOST, FIRM SEEDEED, MANUAUM SEED DETHI SHOULD BE 'R' WHEN USING HYDROSEEDER WEITHOO. RROGATE UNITL. VECETATION IS FIRMLY ESTABLISHED IF SOL MOSTURE IS NOT SL

THIRDSZELEK BEILD. REGISTE ORDITE YEUGHTINE TO FRAIL ESTREUSHED IF SOIL MUSTICLE S NOT SOFFICIENT TO SUPPORT ADOLULTE 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, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLUNKETS. RIPRAP SHALL BE CLEAN, HARD, SOUND, DURABLE, UNFORM IN QUALITY, AND FREE OF ANY DETRIBUTING, QUANTITY OF SOFT, FRABEL, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OL, ALKALI OR OTHER DELETEROUS SUBSTANCES.

ORADING
THE CONTRACTOR SIMIL SEED THE GRADED AREAS PER DOT STANDARDS. AN SI GEOSCILITIONS LAND LOCK CS2
EROSON CONTROL BLANKET SIMIL BE INSTALLED PER THE IMMURACTURER'S INSTRUCTIONS.
THE CONTRACTOR SIMIL PROVIDE ADEQUATE WATERING TO ENSURE FAVORABLE GROWTH OF VEGETATION FOR A PERIOD

OF 5 MONTHS.

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

jurelients. C gruding tolerance for fill under building slabs shall be ±½ inch measure with 10 ft straghtedge. C gruding tolerances Outside Building Lines Shall be ±1 inch for lainns, unpaved areas and walks; and ±½ INCH UNDER PAVEMENT.
THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND RE-GRADING ROADWAY AND/OR FIELD FOLLOWING THE

ANY FILLS PLACED ON EXISTING SLOPES THAT ARE GREATER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY

ANY FILLS PLACED ON EXISTING SLOPES THAT ARE GREATER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY 
BERCHER INTO THE EOSTING 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 DURING CONSTRUCTION.

PROTECT EXISTING GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE 
PLANNING OR OTHER SUTFABLE MATERIUS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING 
GRAVEL SURFACING OR SUB-GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR OPERATIONS. DAMAGED GRAVEL 
SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE THE SAME 
DEMONSTREES.

CONCRETE

DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING

APPLICABLE CODES: ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS

ACI 301 — SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
ACI 318 — BUILDING CODE REQUIREDHETS FOR REINFORCE ONCRETE
ACI 344.1R — REER REINFORCED CONCRETE (F SPECIFED)
ACI 344.1R — REER REINFORCED CONCRETE (F SPECIFED)
AIX 144.2R — RESINDAING TO PROPERTIES OF FIBER REINFORCED CONCRETE (F SPECIFED)
AIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PROR TO PLUCING CONCRETE.
CONCRETE SHALL BE NORMAL WEIGHT, 63 ARE DETRUMBED (14-153) WITH A MAXIMUM OF 4' SLUMP, AND HAVE A
MINIMUM 26 DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.

AXIMUM AGGREGATE SIZE SHALL BE 1

THE FOLLOWING MATERIALS SHALL BE USED:
PORTLAND CIMENT:

PORTLAND CHIEFT:
PRINFORCEMENT:
NORMAL MEGRIT AGGREGATE:
NORMAL MEGRIT

'8' AND ALL HOOKS SHALL BE STANDARD, UNO. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE

( Drainiscs:

Concrete cast against Earth; 3 in.

Concrete exposed to earth or weather:

(6 and larger; 2 in.

(5 and saller and why; 1 ½ in.

Concrete not exposed to earth or weather or not cast against the ground:

SLABS AND WALL Y IN.
 BEWLS AND COLUMNS: 1 ½ IN.
 CHAMPER OF Y IN SYMLE BE PROMOBED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301

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 EMBEDDMENT DEPTH OR AS SHOWN ON THE DRIVINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.

CURRIC COMPONES SHALL CONFORM TO ASTIM C-309.

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

DO NOT WELD OR TACKNED THE RENFORCING STEEL.

DO NOT WELD OR TACKWELD REINFORCING STEEL.

ALL DOMES, ANCHORS BOLTS, EMERDMENT STEEL, ELECTRICAL COMDUTS, PIPE SLEEVES, GROUNDS AND ALL OTHER

BUBEDGED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT,

LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACULTATE CONSTRUCTION AS ACCEPTABLE TO THE ENGINEER,

PRACE REINFORCEMENT SHALL BE COLD BENT WHEN BEDIDING IS REQUIRED.

REINFORCEMENTER IN A UNIFORM MANNER TO PREVAIT THE FORMATION OF COLD JOINTS AND OTHER PLANE OF

WEAKHESS, VIBRALE THE CONCRETE TO FULLY EMBED REINFORCING, DO NOT USE VIBRATOR TO TRANSPORT CONCRETE

THROUGH CHUTES OR FORMWORK.

THROUGH CHUTES OR FORMMORE.

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

FOR COLD WEATHER AND HOT WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND

RECOMMENDATIONS IN EITHER CASE, MATERIALS CONTAINING CHLORDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED.

PROTECT FREE CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.

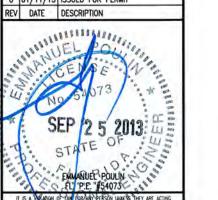
FIBER REINFORCED CONCRETE MIX, IF SPECIFIED, SHALL INCLUDE 1 ½ LBS OF FIBER PER CUBIC YARD.





300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407,260,023 FAX: 407.260.0749 FL COA#:

DRAWN BY: EW CHECKED BY: JD 0 01/11/13 ISSUED FOR PERMIT REV DATE DESCRIPTION



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SHEET TITLE:

SPECIFICATIONS

SHEET NUMBER:

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SP1

11.— ELECTRICAL
11.1 GENERAL
1... THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, TRANSPORTATION, CONSTRUCTION TOOLS, ETC., FOR THE INSTALLATION OF COMPLETE AND PROPERTY OPERATING SYSTEMS.
2. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS AND ORDINANCES OF ALL AUTHORITIES HAVING JURISDICTION AND WITH ALL ASSOCIATED UTILITY COMPANY REQULATIONS AND APPLICABLE REQUIREMENTS. INSTALLATION WILL ASSOCIATED WILL ASSOCIATED AND STALLOWING OF THE ENTITIES LISTED ON SHEET SET), NOTE 2. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE. USING SKILLED MECHANICS OF THE TRADES INVOLVED.

DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL PATCHING SHALL BE OF QUALITY EQUAL TO AND OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION. MATCHING APPEARANCE OF EXISTING CONSTITUTION.

1. CONDUCTORS

1. USE 98X CONDUCTATY COPPER WITH TYPE XHHM-2 INSULATION, 600 YOUT, COLOR CODED, USE SOUD CONDUCTORS
FOR WIRE UP TO AND INCLUDING NO. 8 AINC, STRANDED CONDUCTORS FOR WIRE LARGER THAN NO. 8 AINC, USE
PRESSURE—TYPE INSULATED THIST—ON CONNECTORS FOR NO. 10 AINC AND SMALLER, SOLDERLESS MECHANICAL.

TERMINAL LUSS FOR NO. 8 AING AND LARGER, ALMAINIAN CONDUCTORS SHALL NOT BE USED. TRAINAL LIGS FOR NO. 8 AND AND LARGER, ALUMINUM COMDUCTORS SHALL NOT BE USED.

NO BY, MC OR ROWER CABLE SHALL BE PREMITTED.

EICH DIO OF EVERY POWER, GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELD WITH COLOR-CODED

INSULATION OF BLECTROK LAFE (SM BRAND, 1/2 INCH PLASTIC ELECTROK. TAP WITH UP PROTECTION, OR EQUAL).

THE IDENTIFICATION METHOD SHALL CONFORM WITH MEC AND CHARLA AND MATCH EXISTING INSTALLATION REQUIREMENTS,
ALL TE WEARS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL, REMOVE SHAPP EDGES.

ALL CONDUIT SIZES SPECIFIED IN THIS DOCUMENT WERE DONE SO TAKING INTO ACCOUNT THE USE OF COPPER THE KINS STREAM COME WAS THE CONTRACTOR OF THE CODE CONTRACTOR OF THE CODE COURSELENTS. BY THE CODE COURSELENTS. SHE THE CODE COURSELENTS. SHE THE CODE CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS AND PAY ALL REQUIRED FEES.

THE CONTRIBUTIONS MENTION ARECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRIBUTIONS BETWEEN WORK AS SPECIFICATIONS. THE CONSTRUCTION MANAGER UPON COPIED OF THE PROJECT.

ALL BROCHURES, OPERATION MANUALS, CATALOGS, SHOP DRAWINGS, SPECIFICATIONS, ETC., SHALL BE TURNED OVER TO THE CARBIER THE COMPARIENT OF THE PROJECT.

ALL BROCHURES, OPERATION MANUALS, CATALOGS, SHOP DRAWINGS, SPECIFICATIONS, ETC., SHALL BE TURNED OVER TO THE CARBIER THE COMPARIANT. SO THE DEFECTIVE MATERIAL AND/OR WORKINASHIP MILL BE TURNED OF OF YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIAL AND/OR WORKINASHIP MILL BE TURNED OF WARRANTY. F. AFTER THERTY (30) DAYS THE CORRECTIONS ARE NOT COMPLETE, THE OWNER RESERVES THE OPTION OF ARRANGING FOR THE NECESSARY REPAIRS AND BLOCKCHARGING THE CONTRACTOR FOR THE WORK.

THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, AS NECESSARY.

DO NOT INTERRUPT DUSTING SERVICES WITHOUT WRITTEN PERMISSION OF THE WORK. ONDUCTORS.

11.7 ELECTRICAL SERVICE

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

2. SHORT CIRCUIT RATINGS: PROVIDE EQUIREMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE FAULT CURRENT.

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

4. THE CONTRACTOR IS RESPONSELE FOR MAKING ARRANGEMENTS WITH THE ELECTRIC UTILITY RELATIVE TO A TIMELY INSTALLATION OF THE ROW SERVICE AND PAYING ALL ASSOCIATED FEEDS.

5. IDICTRICATION: BUSTIEY SERVICE DISCONNECTION HEARS WITH PERSUANCITY NAMEPLATE.

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

7. LOCATION AND ARRANGEMENTS: DRAWNICS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATION OF EQUIPMENT, PRITURES, OUTLITS, ETC., AND ARE NOT TO BE SCALED, PROPER JUDGMENT MAST SE EXERCISED IN THE EXECUTION TO ENSURE THE REST POSSIBLE INSTALLATION.

PAREL AND DISTRIBUTION BOARD DESIRE INSTALLATION.

PAREL AND DISTRIBUTION BOARD DESIRE CHITCHCATION. SWITCHEDARDS, PANELBOARDS, TRANSFORMERS AND DISTRIBUTION SECTIONS SHALL BE DENTIFIED WITH ENGRAVED, WHITE ON BLACK, LAMINATED, RIGHD PHENOLIC NAMEPLATES WITH 1/4 NICH CHARACTERS, SECURELY AFFIXED TO FACE OF CABRIET. PERMISSION OF THIS INSTALLATION'S CARRER, CHANGES: NO ADDITIONAL COSTS FOR LABOR OR MATERIALS WILL BE ALLOWED FOR CHANGES OR MCONFICATIONS MADE CHANGE ORDER.

DRAWINGS: BLECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED.

DISCREPANCIES: DISCREPANCIES ON THESE PLANS, SPECIFICATIONS, ETC., MUST BE IMMEDIATELY BROUGHT TO THE

ATTENTION OF THE ENGINEER.

SURPEY AND CONDITIONS: VISIT THE JOB SITE PRIOR TO SUBMITTING BID, AND MAKE A SURVEY OF EXISTING

CONDITIONS WHICH MAY AFFECT THE WORK TO BE PERFORMED. NO OTHER ALLOWANCES WILL BE GIVEN FOR THE SITE CONDITION.

CO-OPERATION: CO-OPERATE WITH OTHER CONTRACTORS AND SUBCONTRACTORS ON SITE. ARRANGE AND EXECUTE WORK IN SUCH A MANNER AS REQUIRED FOR THE SAISFACTORY AND EFFICIENT CONSTRUCTION OF THIS PROJECT BY ALL TRAVES CONCERNED.

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

INSTALLATION SHALL COMPLY SPECIFICALLY WITH ENGINEERING STANDARDS MANULL. ANY DEVATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROSECT MANUSER PROR TO COMMENCEMENT OF WORK.

PROCUREMENT VERIFICATION: PROVIDE AN ITEMIZED CERTIFICATION TO THE PROJECT MANGER THAT COUPMENT AND RELATED HARDWARE HAVE BEEN ORDERED WITHIN 24 HOURS OF NOTICE TO PROCEED.

THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN INCESSANTY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS. CONDITION INCH CHARACTERS, SECURELY AFFIXED TO FACE OF CABINET.

IEEPHONE SERVICE
GONERAL: INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY'S RULES AND REGULATIONS.
THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE TELEPHONE UTILITY RELATIVE TO A TIMELY
INSTALLATION OF THE INCOMING TELEPHONE SERVICES AND RAYING ALL ASSOCIATIO FEES.

METALLIC CONDUIT OR TUBING FOR TI LINES SHALL BE BONDED TO GROUND ON BOTH ENDS.
THE LOCATION SHOWN FOR A TELEPHONE POLE OR CONNECTION TO THE TELEPHONE FOR CONCEPTUAL USE

OUT THE CONTRIBUTOR SHALL PROPERTIES ACTUAL LOCATION WITH THE TELEPHONE UTILITY. ONLY. THE CONTROCTOR SHALL COORDINATE 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 DEFICIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED COMMENCING WORK ON THE AC POWER DISTRIBUTION PARELS.

11.2 INSPECTIONS

1. GENERAL DURING AND UPON COMPLETION OF WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT.

2. INSPECTIONS REQUIRED, AS PER THE LWIS AND REQULATIONS OF THE LOCAL MID/OR STATE AGENCIES HAVING. 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 BULANCED LOAD AT THE PRIMARY SOURCE. RECORDS SHALL BE RETURNED TO THE OWNER'S. JURISDICTION AT THE PROJECT SITE JUNISACION AT THE PROJECT STE.

INSPECTION ACENCY: APPROXED BY THE LOCAL AND/OR STATE ACENCES HAVING JURISDICTION AT THE PROJECT STE.

CERTIFICATES: SUBMIT ALL REQUIRED INSPECTION CERTIFICATES TO THE CARRIER AND UTILITY. REPRESENTATIVE REPRESENTATIVE.

1.10. ROCKWAY, STSTEMS / CONDUIT

1. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT, UNDERGROUND PVC CONDUIT SHALL TRANSITION TO RIGID CALVANIZED STEEL CONDUIT OR SCHEDULE 80 PVC CONDUIT BEFORE RISING ABOVE GRADE OR CONCRETE SLAB. EPIPOSED CONDUIT SHALL BE ROU CALVANIZED STEEL (ROS) CONDUIT OR SCHEDULE 80 PVC CONDUIT.

2. GRS CONDUITS, WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL DRESCHOOL SHALL SEE SUITABLE FOR LESS HEAT DRESCHOOL DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR LESS HEAT DRESCHOOL SHALL BE SUITABLE FOR LESS CERTIFICATES: SUBUIT ALL REQUIRED INSPECTION CERTIFICATES TO THE CARRIER AND UTILITY.

I HANGESS AND SUPPORTS.

MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INTEREST PROPERTY AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION, PRODUCTS FOR UNIDED RUSS. HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC., AS INDICATED OR USE WITH THREADED RIGID CONDUIT.
ELECTRICAL METALLIC TURBING (BUT) OR RIGID, NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 50, SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
ELECTRICAL METALLIC TURBING (EMT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40) SHALL BE USED FOR REQUIRED.

INSTALLATION: RIGDLY SUPPORT AND SECURE ALL MATERIAL, RACEWAY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, 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: 00 NOT CUT, DRILL OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED. ELECTRICAL METALLIC TUBNIG (CAIT) OR RIGIO NONMETALLIC CÓNDUIT (RIGIO PVC SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

LIQUID-TIGHT FLEXIBLE METALUC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

PULG AND CAP EACH END OF SPANE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS — 200 LB. TEST POLYETHYLENE CORD.

ALL CONDUIT BOINGS SHALL BE MINIMUM OF 24 INCH RADIUS.

ALL METALLIC RACEMYS SHALL BE GROUNDED PER NEC.

THE CONTROTOR SHALL FIELD VERRY 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 STRUCTURAL MEMBERS: DO NOT CUT, UNGLE ON WELD ANY STRUCTURAL BURBER EXCEPT AS SPECIFICALLY APPROVED BY THE ENGINEER.

MISSELLAMEOUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT. ONE-HOLE STRAPS SHALL NOT BE USED FOR COMOUTS LARGER THAN 3/4 INCH. 11.4 ENCLOSURES / WIREMAYS

1. EQUIPMENT CHBINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE CALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND BE RATED NEMA 1 (OR BETTER) INDOORS OR MEMA 3R (OR BETTER) OUTDOORS. PROFESSIONAL MANIER.

IT BELDIE CRADE

THIS SITE INCLUDES NEW CRITICAL UNDERGROUND ELECTRIC, TELEPHONE AND OTHER SERVICES IN THE VICINITY OF OTHER UNDERGROUND SERVICES AND EQUIPMENT SUPPORTS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID SERVICE DISAUTION TO THESE FACILITIES. THE CONTRACTOR SHALL ASSO CONTRACT ELECTRIC AND TELEPHONE, AND ALL OTHER APPROPRIATE ACENCIES PROR TO EXCAVATION AT THIS SITE.

PROR TO EXCAVATION, A UTILITY MARK OUT SHALL BE DONE TO LOCATE EXISTING UNDERGROUNG UTILITIES ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED OUT PROR TO ANY EXCAVATION WORK BEING PERFORMED, PHOTOS SHALL BE TAKEN OF ALL UNDERGROUND WORK AND GIVEN TO THE CARREER DURING THE SITE'S HANDOFF, ALL TRENCHING AND EXCAVATION WITHIN EXISTING COMPOUNDS MUST BE PERFORMED BY HAID IN ACCORDANCE WITH THE OWNER'S SPECIFICATIONS. ANY OTHER METHODS OF DIGGING MUST FIRST BE APPROVED BY THE CONSTRUCTION MANAGER. retiery voludions.

Wrenian's shall be epoxy-coated (gray) and include a hinged cover and rated nema 1 (or better) indoors, or nema jr (or better) outdoors.

Junction Boxes: Junction Boxes shall be a minimum size of 4 inches square by 1–1/4 inches deep. JUNCTION BOXES: JUNCTION BOXES SHALL BE A MINIMUM SIZE OF 4 INCHES SOURRE BY 1-1/4 INCHES DEEP.
5 HALES SLEEVES AND OPENINGS
GENERAL: PROMDE ALL HOLES, SLEEVES AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL
DAMAGED SURFACES TO MATCH SURROUNDING SURFACES.
CONDUIT PREPERTATIONS: SIZE CORE-ORBILED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND
NOT MORE THAN 1 INCH IS LEFT ARQUIND THE CONDUIT, PIPE, ETC. WHEN OPENINGS ARE CUT IN LIEU OF
CORE-ORBILED, PROVIDE SLEEVE IN ROUGH OPPINIGS ASS ELEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS
THAN 1/4 INCH AND NOT MORE THAN 1 INCH ARQUIND THE CONDUIT, PIPE, ETC. PATCH ARQUIND SLEEVE TO MATCH
SURROUNDING SURFACE.
PROVIDE APPROPRIATE WEATHERPROOFING MATERIALS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL
WATER INTRUSION. PROVIDE PREPROOF MATERIALS FOR PENETRATIONS REQUIRING A FIRE RATED SEAL. REFER TO
CUTTING AND PATCHMEN GOTIES UNDERS SECTION 1 - CENERAL.
IF ANY ROOFTOP WORK IS TO BE PERFORMED, THE CONTRACTOR SHALL USE THE BUILDING OWNERS APPROVED
ROOFING CONTRACTOR TO PREVIENT WORMEN, ANY EXISTING ROOFING WARRINES. ANY DAMAGE TO THE EXISTING MANAGER.

ALL LOW VOLTAGE CONDUIT (800V OR LESS) SHALL HAVE A MINIMUM BURAL DEPTH OF 24". ALL HIGH VOLTAGE CONDUIT (800V OR MORE) SHALL HAVE A MINIMUM BURAL DEPTH OF 36".

UNDERGROUND COMDUIT SHALL BE ENCASED IN REINFORCED CONCRETE IN AREAS OF VEHICLE TRAFFIC. CONCRETE ENCASEMENT SHALL BE 3" MINIMUM ALL AROUND AND BETWEEN CONDUITS.

ALL BURRED CONDUIT SHALL BE IDENTIFIED WITH ELECTRICAL MARKER TAPE. TAPE SHALL BE PLACED 12" ABOVE CONDUIT FOR EASY IDENTIFICATION. ROOFING CONTRACTOR TO PREVENT VOIDING ANY EXISTING ROOFING WARRANTIES. ANY DAMAGE TO THE EXISTING ROOFING MEMBRANE SHALL BE REPAIRED IMMEDIATELY TO AVOID MOSTURE INTRUSION INTO THE BUILDING SHELL GENERAL: PROVIDE ALL CUTTING, ORBILLING, FITTING AND PARTHING RECESSARY FOR ACCOUNTSHING THE WORK. THIS INCLUDES REMOVAL AND REPLACEMENT OF DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF CONDUIT FOR DOST IDENTIFICATION.

THE MAIN CIRCUIT BREAKER SHALL BE RATED FOR STANDARD A.L.C. RATING HIGHER THAN INCOMING EQUIPMENT A.L.C.
ALL EQUIPMENT SALL BE BRACED FOR STANDARD A.L.C. RATING HIGHER THAN INCOMING FROM UTILITY CO.
THE CONTRACTOR SHALL PROVIDE AN ITEMIZED CERTIFICATION TO THE CARRIER OF ALL EQUIPMENT AND RELATED
HARDWARE, SPECIFED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HRS OF REPAIRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS, HI FIFCTRICAL COMPONENTS SHALL BE CLEARLY LARGED WITH ENCRAVED PLASTIC LARGES ALL FOLIPMENT SHALL ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY DARELED WITH ENRANCE PLASTIC DREILS, ALL EQUIPMENT SHALL BE LUBELED WITH ITS VOLTIGE RATING, PHASE COMPIGURATION, MERE CONFIGURATION, POWER OR AUPACTY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).

METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANEZED, FORXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED ILL SHAL AND NEUAL OS 1; AND BE RATED NEWA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (MP OR BETTER) OUTDOORS.

WEATHER-PROTECTED (MP OR BETTER) OUTDOORS.

HOMETICALIS RECEPTACLE SWITCH AND EVICE BOXES SHALL MEET OR EXCEED NEWA OS 2, AND BE RATED NEWA 1 (OR BETTER) NODORS OR WEATHER-PROTECTED (MP OR BETTER) OUTDOORS. 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 UNSUMMENT INSO DEVICES.

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

IN MARKETS WITH LIGHTHING POME > OR = TO 4, RF TYSS DEVICE SHALL BE INSTALLED AT THE ENTRANCE TO THE SHELTER OR AS CLOSE AS POSSIBLE TO THE BTS CABINET FOR OUTDOOR SITES, TO PROTECT AGAINST LIGHTHING AND A TI TRANSPORT TVSS DEVICE SHALL BE INSTALLED AT ALL SITES BETWEEN THE NIU AND THE BTS. 13 - RF AND TOMER APPURITHMANCE INSTALLATION RELATED NOTES
13.1 COUNTY CARE REQUIREMENTS:
13. GENERAL: PROVIDE ALL LABOR, COLIPMENT, AND MATERIALS NECESSARY FOR RECEMING, INSTALLING, TESTING, AND ADJUSTING ANTENNA CABLES FROM THE ANTENNA TO THE CONNECTIONS AT THE BASE TRANSJUSSION SYSTEM (BTS).
THIS SHALL INCLUDE ALL EQUIPMENT SHOWN OR REQUIRED FOR A COMPLETE OPERATING SYSTEM. ANTENNA, ANTENNA CABLES, CONNECTORS, AND FITTING SHALL BE THIRD PARTY FURNISHED COMPONENTS AS SHOWN ON THE BILL OF CABLE HANGERS SHALL BE INSTALLED AT A MAXIMUM 4' SPACING. INSTALLATION COAXIAL CABLE LENGTHS SHALL BE FIELD MEASURED. INSTALLER SHALL NOTIFY CARRIER PRIOR TO PURCHASE OF CABLE OF THE OVERALL LENGTH REQUIRED.

COAXIAL CABLE TYPE AND DAMETER SHALL BE VERRIED WITH CARRIER ELECTRICAL MATERIALS AND METHODS SPECIFICATIONS. ALL MAIN CABLES MILL BE COLOR CODED AT FOUR LOCATIONS: A) AT ANTENNA PRIOR TO JUMPER, B) AT THE BOTTON OF THE TOWER. SHELTER/CABLES FOR SELETER/CABLES WALL, B) INTEROR OF THE SHELTER/CABLES. PROVIDE ATTEMP PORT (AT THE SHELTER/CABLEST.).

PROVIDE AT LEAST 6' OF SLACK IN THE MAIN CONVIAL CABLES AT THE ANTENNA END TO PROVIDE FOR FUTURE CONNECTOR REPLACEMENT.

INSTALL CONNECTOR STO COXXIAL CABLE AT BOTH ENDS (ANTENNA END AND BTS LOCATION).

UPON SUCCESSFUL COMPLETION OF THE SWEEP TEST, THE CONTRACTOR SHALL PROVIDE A WEATHERINGST SAIL ON THE COXX CABLES.

WEATHERTICHT SEAL ON THE COAX CABLES.
THE MINIMUM BENDON RADUS FOR ALL ANTENNA CABLES SHALL BE AS SHOWN BELOW OR PER THE MANUFACTURER, WHICHEVER IS MORE CONSERVATIVE:

G.

CABLES SHALL BE INSTALLED WITH THE MINIMUM NUMBER OF BENDS. CABLE SHALL NOT BE LEFT UNTERMINATED IN THE FIELD. ALL MAIN CABLES WILL BE GROUNDED AT: A) THE ANTENNA, 8) MIDDLE OF THE CABLE RUN IF OVER 2007; C) PROR TO ENTERING EQUIPMENT SHELTER/CABINET (WITHIN 1" OF ENTERY). GROUND STRINE, THE CONNECTIONS SHALL BE MADE WEATHER TICHT USING WEATHERPROOF KITS AS DIEDHIFED. GROUND PRIGNALS SHALL BE BROUGHT OUT IN THE DOWNMARD DIESECTION FROM THE CONNECTION OT THE ANTENNA CABLE WITHOUT ANY SHAPS BENDS (MINIMUM RADIUS 10") AND CONNECTION SHALL BE MADE TO GROUNDING STSTEM. INTERNATIONAL \* 13.2 ANTENNA REQUIREMENTS:

1. AZIMUTHS ARE ORIGINIZE CLOCKWINE FROM TRUE NORTH.

2. CONTRACTOR SHALL YERFY 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". 3.3 Tower Cumbing Safety Guidelines
. 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 COUNSERS ON THIS STRUCTURE.

3. TOWER CLINBERS WILL NOT BE ALLOWED TO ACCESS TOWER IN ADVERSE WEATHER CONDITIONS, INCLUDING HIGH WINDS, LIGHTBING, RAIN, SNOW ICE OR DURING NIGHT TIME.

4. CONTRACTOR OR CLIMBERS SHALL IMMEDIATELY REPORT ANY CLIMBING EQUIPMENT OR CONDITIONS JUDGED IMADEQUATE or unsafe. 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. 20 - SITE SPECIFIC NOTES
20.1 GENERAL
1. CONSTRUCTION INCLUDES: CONSTRUCTION MICLIDES:

INSTALLATION OF COMMUNICATION EQUIPMENT

INSTALLATION OF STRUCTURE

MITENNAS AND MOUNT INSTALLATION ON STRUCTURE

THE PROFESSIONALS INVOLVED ON THIS PROJECT ARE AS FOLLOWS:

AN SOLUTIONS, INC.

300 CROWN OW CENTRE DRIVE LONGWOOD, PL 32750 PHONE 407.260.0231 300 CROWN OAK CENTRE DRIVE LEGEND AND ABBREVIATIONS
AND AUTHORITY HAVING JURISDICTION LONGWOOD, FL 32750 TEL: 407.260.023 AMERICAN WRE GAUGE
BARE COPPER WIRE
BASE TRANSMISSION SYSTEM
COAX ISOLATED GROUND BAR, EXTERNAL FAX: 407.260.0749 FL COA#: 26983 DRAWN BY: EW CHECKED BY: JD DIAMETER ELECTRICAL METALLIC TUBING GLOBAL POSITIONING SYSTEM WASTER ISOLATED GROUND BAS MATIONAL ELECTRIC COCE, LATEST ADOPTED EDITION
POWER PROTECTION CABINET
POLY VINYL CHLORIDE
RIGID GALVANIZED STEEL 0 01/11/13 ISSUED FOR PERMIT STREET, STREET, SON REV DATE DESCRIPTION EMMANUEL POULING FL. P.E. #54073 IT IS A VOLATION OF UM OR-ANY PERSON UNITES THE MAKE ACTING HIMES FOR THE ORICING HE ALLIES TO ALTER THE SOCIUMN. DLESS FOR WHITE MAKE OF BY AN SOLUTIONS IN WRITING, AN SOLUTIONS IN COSCIANS ALL LIBRUIT ASSOCIATED WITH THE RELEAS, LIFERINGH OR MODERCHING OF THE CONTENTS HEREIN. SFL60 3 ADDRESS: 550 SE 21ST STREET FORT LAUDERDALE, FL 33316 SHEET TITLE: SPECIFICATIONS SHEET NUMBER: SP2

IN AIR OR CABLE TRAY

IN CONDUIT

Exhibit 4 13-162

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