

CITY OF MIAMI  
UTILITY WORK SCHEDULE

UTILITIES  
Page 1 of 3

Project Number: B-30637	Commission District: 2
Project Name: Mary Brickell Pump Station	
Utility Agency/Owner (UAO): Florida Power & Light	
A. Summary of Utility Work And Execution	

NON-CONSTRUCTED ITEMS	ESTIMATED CALENDAR DAYS	CONSTRUCTION ITEMS	ESTIMATED CALENDAR DAYS
Total Preliminary	60	Total Prior Project Construction	0
Total Material Procurement	30	Total During Project Construction	17
Total Right-of-Way Acquisition	0		
Total Other	30		

This document has been developed as the method for a Utility Agency/Owner (UAO) to transmit to the City of Miami, the Contractor, and other right-of-way users, the location, relocation, adjustment, installation, and/or protection of their facilities, on this City of Miami project. The following data is based on City of Miami preliminary construction plans dated 4/14/2015. Any deviation by the City of Miami or its contractor from the plans, as provided, may render this work schedule null and void. Upon notification by the City of Miami of such change, this utility may require additional days for assessment and negotiation of a new work schedule. This UAO is not responsible for events beyond the control of the UAO that could not reasonably be anticipated by the UAO and which could not be avoided by the UAO with the exercise of due diligence at the time of the occurrence. The UAO agrees to notify the City of Miami in writing prior to starting, stopping, resuming, or completing work.

UAO Project Representative: Karen Lund Telephone Number: 305-442-5290 E-Mail: karen.lund@fpl.com

UAO Field Representative: \_\_\_\_\_ Telephone Number: \_\_\_\_\_ E-Mail: \_\_\_\_\_

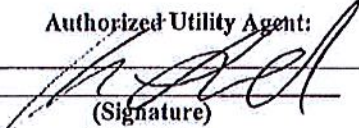
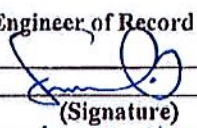

UAO Field Representative: \_\_\_\_\_ Telephone Number: \_\_\_\_\_ E-Mail: \_\_\_\_\_

UAO Field Representative: \_\_\_\_\_ Telephone Number: \_\_\_\_\_ E-Mail: \_\_\_\_\_

This document is a printout of a City of Miami form maintained in an electronic format and all revisions thereto by the UAO in the form of additions, deletions, or substitutions are reflected only in an Appendix entitled "Changes to Form Document" and no change is made in the text of the document itself. Hand notations on affected portions of this document may refer to changes reflected in the above-named Appendix but are for reference purposes only and do not change the terms of the document. By signing this document, the UAO hereby represents that no change has been made to the text of this document except through the terms of the appendix entitled "Changes to Form Document".

You MUST signify by selecting or checking which of the following applies:

- No changes to forms document
- Appendix "Changes to Forms Document" is attached. \_\_\_ Number of Attachment Pages.

Authorized Utility Agent:  (Signature) <u>Karen Lund</u> (Printed Name) Utility Coordinator (Title) <u>8/3/2015</u> (Date)	*Engineer of Record (EOR):  (Signature) <u>Francis J. Alaw, PE</u> (Printed Name) Project Manager (Title) <u>8/3/15</u> (Date)	Acceptance by the City of Miami Utilities:  (Signature) <u>Orlando Misas</u> (Printed Name) Project Manager (Title) <u>8/4/2015</u> (Date)
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(\*When requested by the City of Miami, the EOR will attest to compatibility of plans, specifications, and Utility Work Schedule)

## UTILITY WORK SCHEDULE

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B. Special Conditions / Constraints	
<ol style="list-style-type: none"> <li>1. All work to be completed during normal FPL working hours (8:00 AM to 4:00 PM, Monday – Friday).</li> <li>2. FPL will not be liable for any down time claims, in whole or part, by the City of Miami Contractor, which are due to delays caused by any other Utility or Contractor involved in this project.</li> <li>3. Construction days lost during the work by FPL caused by inclement weather; storm restoration activities or City of Miami Contractor delays may void the time frames with this relocation schedule.</li> <li>4. All existing FPL facilities must remain in place and energized until the new facilities are installed and operational.</li> <li>5. The roadway Contractor and all of his sub-contractors must abide by all OSHA Rules and Regulations regarding clearances to FPL's energized electrical facilities.</li> <li>6. City of Miami Contractor to maintain a minimum distance of 5 feet from excavating, digging, trenching, or the likes; to any FPL pole bases and/or down guys, unless otherwise coordinated.</li> <li>7. In case of any unforeseen conflicts, FPL will require 30 days lead time to respond.</li> <li>8. Prior to FPL adjusting Manholes, City of Miami Contractor to determine and provide written dimensions to FPL; with a 15-days lead time.</li> <li>9. FPL calls your attention to the fact that there are energized high voltage electric lines located in the area of this project. It is imperative that you visually survey the area, and that you also take the necessary steps to identify all Underground facilities prior to commencing construction and determine whether the construction of any proposed improvement will bring any person, tool, machinery, equipment or object closer to FPL's power lines than the OSHA-prescribed limits. Please before digging make sure to contact Florida One-Call Sunshine to locate FPL's facilities.</li> <li>10. The type of equipment used in the installation of mast arm/foundations, overhead/cantilever signs/foundations, and the movement/installation of strain poles shall meet the following requirements: 1) Overhead lines shall stay in place both vertically and horizontally 2) Contractor shall meet all applicable OSHA requirements. Any cost associated with this type of equipment required for this installation is included in the related pay items.</li> <li>11. Overhead electrical facilities to remain energized and in place. Table A Minimum Clearance Distances specified in Subpart CC of OSHA Rule 1926 (as they pertain to crane/derrick operations), and/or those minimum distances specified in 29 CFR 1910.333(c)(3)(i)(A) and (iii)(A) for work in proximity to power lines not covered by this Subpart CC, must be maintained.</li> <li>12. If necessary, poles can only be supported for an 8 hour period at a time. A minimum of 4 weeks notice is required.</li> <li>13. FPL to provide 3 phase 277/480V service for new pump station. City of Miami (or its contractor if they prefer) to be responsible for all appropriate Tariff charges required to provide this new service prior to installation. The work will be split into 2 jobs: overhead line work and underground cable and transformer work.</li> <li>14. If de-energizing of any facility is deemed absolutely necessary, City of Miami (or its contractor) will be responsible for notifying in advance all customers affected by the proposed outage, and must provide a generator for the traffic signal that will be affected. Coordination for any outage requires approval from the FPL Dispatch office and, if approved, a minimum of 6-8 weeks advance notice to FPL to schedule. There is always a possibility that the lines cannot be de-energized when desired.</li> <li>15. City of Miami (or its contractor if they prefer) to be responsible for the removal/trimming of the trees in conflict with the proposed FPL pole location prior to FPL construction.</li> </ol>	

**UTILITY WORK SCHEDULE**

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C. Disposition of Facilities (List All Existing & Proposed) on Project:				
UTILITY FACILITIES BY STATUS/ TYPE / SIZE / MATERIAL / OFFSET TO BASELINE FROM STA. TO STA	DESCRIPTION OF UTILITY WORK	DEPENDENT ACTIVITIES	M.O.T. PHASE NUMBER	CONSECUTIVE CALENDAR DAYS
All Distribution Pole lines and attachments (23KV and below) within the boundaries of this project not otherwise mentioned	Facilities to remain energized and in place			
All Distribution Buried lines (23KV and below) within the boundaries of this project not otherwise mentioned.	Facilities to remain energized and in place			
Proposed pole at approx sta 12+09, 18' LT (BL SW 1 Ave)	To be installed. Overhead line facilities to be upgraded to provide new service to pump station at the same time.	Tariff charges for overhead line work portion of new service to be paid in advance.	During Construction	5
Pole at approx. sta 12+47, 19' LT (BL SW 1 Ave)	To be relocated to approx. sta 13+11, 19' L.T.	n/a	During Construction	10
	Old pole to be removed	Communication to transfer facilities, MDC Traffic Signal service to be transferred to new pole	During Construction	2



FPL

# Electric Service Standards

DATE

09-19-12

PREPARED BY

SUBJECT

SECTION: PAGE

Delivery Assurance - Design Support

VI. METERING EQUIPMENT

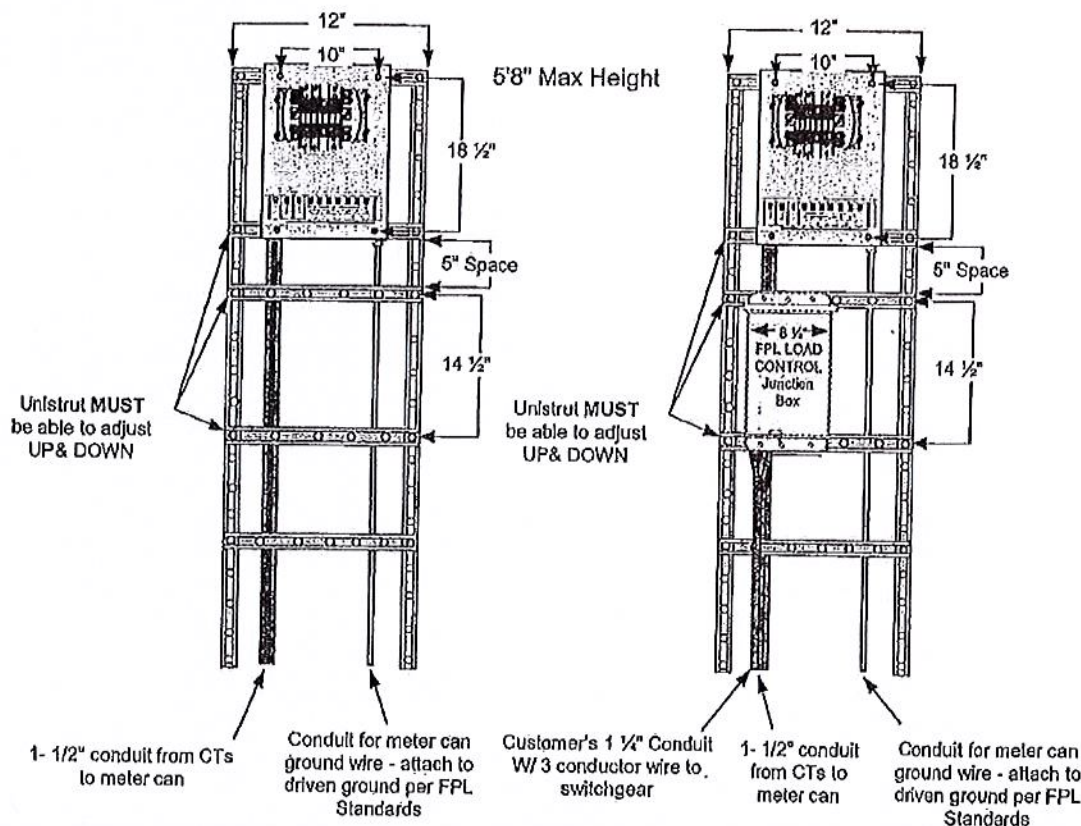
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FIGURE VI-2a

## Unistrut mounting for Instrument Rated TUV meter cans (CT metering)

Standalone customer provided TUV instrument rated meter can on unistrut support

Standalone customer provided TUV instrument rated meter can on unistrut support (Load Control)



1) Meter cans face away from the TX.

2) Bury unistrut in ground minimum 3 feet in compacted earth, or 2 feet if encased in concrete

3) When applicable, FPL provides and installs the Load Control Junction Box (LCJB)

4) Unistrut Requirements:

- A. Unistrut - Per ASTM Spec. A-123 or A-153, 1-5/8 x 1-5/8", 12 ga., 9/16" dia. Holes spaced 1- 7/8" apart
- B. To connect the Unistrut Framing use:  
 3/8 x 1-1/4" electrogalvanized bolts, per ASTM A164  
 Nut w/ spring for 3/8 dia. bolt, electrogalvanized, per ASTM A164  
 Flat Washer - 1" dia. for 3/8" bolt, electrogalvanized, per ASTM A164  
 Lock Washer - for 3/8" dia. bolt, hot-dipped galvanized, per ASTM A153
- C. To attach cabinets and boxes use:  
 1/4" x 20 electrogalvanized bolts, per ASTM A164  
 Nut w/ spring for 1/4" dia. bolt, electrogalvanized, per ASTM A164



**Electric Service Standards**

DATE  
09-19-12

PREPARED BY  
Delivery Assurance -  
Design Support

SUBJECT  
**VI. METERING EQUIPMENT**

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**FIGURE VI-3  
CT Metering Configuration 7, 8, 9 - CT Cabinet Mounted on Wall**

1. IT rated meter socket provided and installed by customer; \_\_\_\_\_ 1 ph or \_\_\_\_\_ 3 ph (check one)
2. Wall mounted current transformer (CT) cabinet provided and installed by customer.
3. 1-1/2" minimum rigid galvanized conduit (with bushings), or 1-1/2" minimum Schedule 80 PVC conduit with pull string installed between meter socket and current transformer cabinet provided and installed by customer. Maximum of 2-90 degree bends, no condulets allowed. Maximum allowed distance from socket to cabinet is 40 feet.
4. Window CTs provided by FPL and installed in the CT cabinet by the customer before pulling wire. Ensure the CTs are installed in the correct orientation (Indicator dot toward the source).
5. Customer's conductor(s) must run continuous through the current transformer cabinet.
6. Size and number of conductors entering shall equal the size and number of conductors exiting.
7. Conduits / Cables must enter / exit opposing corners AA/AA or BB/BB as indicated below, within 10" of the cabinet's corner, and must be approved by FPL before installation.
8. Configuration 9 is for conduit / wire combinations exceeding the limits of Configuration 8. The cabinet will be custom designed and built by the customer to FPL specifications. Contact FPL before specifying this configuration.
9. For general installation and bonding details, refer to Figure VI-4 "CT Cabinet and IT rated Meter Socket Installation and Bonding".

MAXIMUM CONDUIT OR SIZE AND NUMBER			
Conf	Wires per phase	Size Copper MCM	Size Alum MCM
7	2	600	400
8	4	600	400
9	Custom Designed		

MAXIMUM CONDUIT SIZE AND NUMBER			
Conf	Conduit Size	# Conduits Entering	# Conduits Exiting
7	4"	2	2
8	4"	4	4
9	Per Customer Requirements		

Ratio	AMPS
300:5	600
600:5	1200
1200:5	2400
2000:5	3000
4000:5	6000

Typical Customer Conduits and Conductors Same Phase conductors cannot be routed through the same conduit. (condulets NOT allowed on "Line" side)

\* Overhead Services are limited to 3 conduits

