

MIAMI-DADE COUNTY
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT (PWWW)

ADDENDUM NO. 3
October 31, 2013

PROJECT: Push-Button Contract for Street Lighting Improvements
Project No. 20130212 (MCC 7040 Plan)

BID DUE DATE: November 8, 2013; 2:00 P.M.

FROM: Miami-Dade County PWWW
Contracts and Specifications Section
111 NW First Street, 14th Floor
Miami, FL 33128
305.375.2930

TO: Prospective Bidders and Interested Parties

This Addendum forms part of the project solicitation documents and will be incorporated into the Contract Documents, as applicable. Insofar as the Original Contract Documents, Drawings and Specifications are inconsistent, this Addendum shall govern. Please acknowledge receipt of this Addendum, at the time of bid submittal to Miami-Dade County, in the space provided on the "Acknowledgement of Addenda Form" provided with the project solicitation documents. Failure to acknowledge receipt of all addenda may be cause for disqualification.

CHANGES TO THE BID FORM, SECTION 2:

- 1) Delete bid form dated 09/17/2013 and replace it with Revised Bid Form for Addendum No. 3 dated 10/31/2013 herein attached.

CHANGES TO SECTION 7, SPECIAL PROVISIONS:

- 1) Delete Article 2.03 Highway Lighting (Section 715) and replace it with Article 715-Roadway Lighting System (Rev. 5-29-2013), attached.
- 2) Add Article 2.03, Pull and Junction Boxes (Rev. 06-23-11), attached.
- 3) Appendix B to the Special Provisions, Lighting Details.
 - a. Delete "Sheet No. 3, Pull Box and Grounding Miscellaneous Details" and replace it with Revised Sheet No. 3 for Addendum No. 3, attached.
 - b. Add Lighting Details, Sheet No. 4. Street Lighting Details Concrete Spread Footer with attached.

END OF ADDENDUM NO. 3



Frank Aira, P.E., CFM

MIAMI-DADE COUNTY
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT (PWWM)

ADDENDUM NO. 3
October 31, 2013

Division Manager, PWWM

c: Alfredo Muñoz, P.E., PWWM
Jean Bernard Philippeaux, PWWM
Luis O. Perez, P.E. PWWM
Ultimo de Oliveira, ISD
Clerk of the Board
Project File

Bid Form

PROJECT TITLE: Push Button Contract for Street Lighting Improvements

PROJECT NO: 20130212

IF THIS PROPOSAL IS ACCEPTED, THE UNDERSIGNED AGREES TO COMPLETE ALL WORK UNDER THIS CONTRACT WITHIN THREE HUNDRED SIXTY FIVE (365) CALENDAR DAYS AFTER THE EFFECTIVE DATE ESTABLISHED IN THE *NOTICE TO PROCEED WITH CONTRACT WORK*.

Item No	Quantity	Unit	Description	Written Unit Amount	Unit Price	Total
580-329-00	12.0	HRS	TREE TOPPING, TRIMMING AND REMOVAL SERVICE. Skid steer loader (Equipped with suitable loading bucket, or log grapple or scrape grapple, etc.)			
715-1-113E	5,500.0	L.F.	CONDUCTOR - Furnish and Install three Conductor set of 2- # 6 RHW-XLP Stranded Black and White with 1- # 6 THWN Green.			
715-2-215	15,990.0	L.F.	CONDUIT (2" PVC-Schedule 40) (Underpavement)			
715-4-111	34.0	EA.	Decorative light pole (Vertex illumination #VIAMDAP-391006-SDA06DB1-BL) including luminaire (Lumec RN20-400 HPS-THA3 GL-SMA-BKTX) furnish & Install			
<p>Pay item 715-4-111 is an alternate bid pay item and can be used interchangeable with pay item 715-4-112C. Therefore quantities may be decreased and/or be deleted. Pay item includes pole cable distribution system, pullbox and grounding.</p>						
715-4-112C	34.0	EA	Light Pole Complete (F& I) standard pole, standard foundation			
<p>Pay item 715-4-112C is for a 40' high pole. This pay item is an alternate bid pay item and can be used interchangeable with pay item 715-4-111. Therefore quantities may be decreased and/or be deleted. Pay item includes pole cable distribution system, pullbox and grounding.</p>						
715-7-11D	1.0	EA	LOAD CENTER - Complete (Includes 15ft concrete pole, switch, and wire at service point)			
715-10-2B	1.0	EA	SPECIAL DESIGN SPREAD FOOTER (Concrete base poured in place)			
715-14-112	4.0	EA.	PULLBOX, Roadside, includes 20 ft. of ground rod. Per plan sheet.			

Bid Form

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PROJECT NO: 20130212

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Total: _____

The bidder understands and agrees that the above total is inclusive of all work necessary to complete the job as described in the plans and specifications.

Quantities are established and are included only for the purpose of facilitating the uniform comparison of bids submitted. The County shall not be held responsible if the quantities are not accurate and all computations for compensation shall be based upon the actual work performed, whether greater or less than estimated quantities.

Tax Identification Number: _____

D.C. Certificate of competency No: _____

Bidder's Name: _____

Bidder's telephone Number: _____

Bidder's address: _____

Bid Form

PROJECT TITLE: Push Button Contract for Street Lighting Improvements

PROJECT NO: 20130212

IF THIS PROPOSAL IS ACCEPTED, THE UNDERSIGNED AGREES TO COMPLETE ALL WORK UNDER THIS CONTRACT WITHIN THREE HUNDRED SIXTY FIVE (365) CALENDAR DAYS AFTER THE EFFECTIVE DATE ESTABLISHED IN THE "NOTICE TO PROCEED WITH CONTRACT WORK".

BIDDER ACKNOWLEDGES THAT INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL AND IN THE TOTAL BID PRICE ARE COSTS FOR COMPLYING WITH THE FLORIDA TRENCH SAFETY ACT (90-96), LAWS OF FLA. EFFECTIVE OCTOBER 1st, 1990. THE BIDDER FURTHER IDENTIFIES THE COSTS TO BE SUMMARIZED BELOW:

	Trench Safety Measure (Description)	Units of Measure (LF, SY)	Unit (Quantity)	Unit Cost	Extended Cost
A.	_____	_____	_____	_____	_____
B.	_____	_____	_____	_____	_____
C.	_____	_____	_____	_____	_____
D.	_____	_____	_____	_____	_____

FAILURE TO COMPLETE THE ABOVE MAY RESULT IN THE BID BEING DECLARED NON-RESPONSIVE

715 ROADWAY LIGHTING SYSTEM (REV. 05-29-2013)

A. Description.

1. Install a roadway lighting system in accordance with the details and work order. Use pole assemblies as shown in the Design Standards when standard aluminum pole assemblies or standard high mast light assemblies are required by the Contract Documents. Include in the system the light poles, bases, luminaires, ballasts, cable, conduit, protective devices, and control devices; all as specified or required for the complete facility.
2. Obtain conventional light pole and high mast light pole assemblies from a fabrication facility that is listed on the FDOT list of Metal Producers with an Accepted Quality Control Plan, meeting the requirements of Contractor Quality Control General Requirements, Article 105, of the PWWM Specifications.
3. Provide metal lighting poles, excluding high mast lighting, with internal vibration damping devices in accordance with FDOT Design Standard 17515 in all installations on bridges, walls and concrete median barriers and as specified on the Plans.

B. Shop Drawings and Working Drawings.

1. Submit shop drawings and working drawings with descriptive specifications and engineering data for the service main, control panel enclosure, control panel main disconnect, lighting contactor, electrical panel, transformer, in-line fuse holders, surge protective devices, non-standard light poles (including brackets), luminaires, ballast, photo-electric cell, conduit and cable or any other item requested by Engineer as specified in Subarticle 1.03, E of the PWWM General Requirements.

C. Materials and Equipment to be installed.

1. General: Meet the materials and equipment requirements of FDOT Section 992.
2. Criterion Designation of Materials and Equipment: Where a criterion specification is designated for any material or equipment to be installed, by the name or catalog number of a specific manufacturer, understand that such designation is intended only for the purpose of establishing the style, quality, performance characteristics, etc., and is not intended to limit the acceptability of competitive products. Engineer will consider products of other manufacturers which are approved as similar and equal as equally acceptable.
3. Contractor must submit to Engineer, in triplicate, a letter of intent, which must include a complete bill of materials and equipment to be utilized. Contractor must obtain written approval from Engineer approving the complete bill of materials prior to the installation of any lighting material or equipment.
4. Salvaged Materials: All replaced poles and parts remain property of the Department, unless otherwise determined by Engineer to have no salvage value.

Deliver all salvaged materials to the County storage site identified by Engineer. Salvaged and/or repaired materials may be required to be used, as well as other materials furnished by the Department. No additional compensation will be made to delivery to or pick-up from the storage site. Provide environmentally safe areas to dispose of materials determined by Engineer to have no salvage value.

D. Furnishing of Electrical Service.

1. Start the system with a weatherhead on a riser on a service pole and extend through the required metering equipment of the power company, and through the lighting system as shown.
2. The power company will provide service to the areas in the vicinities indicated. Consult and cooperate with the power company in locating its distribution transformer and service pole so that the lines will be as short and direct as possible. Bear any line-extension costs up to the first 2,000 feet. Furnish or install only those parts of the metering equipment or connections that are customary and required by the power company in the locality involved.

E. Excavation and Backfilling.

1. General: For excavation and backfilling, meet the requirements PWWM Specifications, Article 120 except that when rock is encountered, carry the excavation 3 inches below the required level and refill with sand or with selected earth material, 100% of which passes the 1 inch sieve.
2. Trenches for Cable: Construct trenches for cable or conduit no less than 6 inches in width and deep enough to provide a minimum cover in accordance with the Design Standards.
3. Placing Backfill for Cable: For installation of the cable, place an initial layer of 6 inches thick, loose measurement, sand or selected earth material, 100% of which passes a 1 inch sieve. Place and compact the remaining material in accordance with PWWM Specifications, Article 120.

F. Foundations for Light Poles.

1. Concrete Foundations: Provide foundations for light poles of the sizes and shapes shown in the Plans. Construct precast or cast-in-place concrete Class I Concrete foundations in accordance with the Design Standards. Obtain precast foundations from a plant that is currently on the FDOT's list of Producers with Accepted Quality Control Programs.
2. Setting Anchor Bolts: Set anchor bolts according to manufacturer's templates and adjust to a plumb line, check for elevation and location, and hold rigidly in position to prevent displacement while pouring concrete.
3. Installation: Do not erect roadway light poles or high mast light poles until the concrete strength in the cast-in-place foundation is at least 2,500 psi. Determine concrete strength from tests on a minimum of two test cylinders sampled and tested in accordance with ASTM

C31 and ASTM C39 and verifying test results have been provided to Engineer.

4. Fill the voids around precast concrete foundations under roadway light poles with flowable fill meeting the requirements of Article 121 of the PWWM Specifications or clean sands placed using hydraulic methods to a level 6 inches below grade.

G. Pulling Conductors.

1. Leave at least 3 feet of conductor where the cable enters and leaves conduit. Protect conductors pulled into conduit or ducts against abrasion, kinking, and twisting. Locate pull boxes so that the conductors are not subjected to excessive pulling stresses.

H. Splicing.

1. Make all conductor splices in the bases of the light poles, or in pull boxes designed for the purpose. Do not make underground splices unless specifically authorized by Engineer, and then only as directed by him.
2. Unless otherwise shown in the FDOT Design Standards or authorized by Engineer, splices must be made with split bolt connectors. The connector must be sealed in silicone gel that easily peels away leaving a clean connection. The gel will be contained in a closure that when snapped around the split bolt will provide a waterproof connection without the use of tools or taping. This closure will be UV resistant, impact resistant and abrasion resistant.
3. All necessary connections in pull boxes must be made with the appropriate sized Tyco Raychem Gel Pad #210-3 hole no other splicing will be allowed unless authorized by Engineer

I. Conduit.

1. Install Conduit at the locations shown in the Plans and in accordance with requirements of FDOT Section 630.

J. Pull Boxes

1. Install pull boxes in accordance to the Plans. New street light pull boxes must have an open-bottom, polymer concrete design constructed of Class I Concrete having a minimum compressive strength of 2500 p.s.i. at twenty eight (28) days Polymer Concrete Pull boxes must be equal to Quazite Product No. PGI324BAI2 or approved equivalent. Pull box dimensions must be equal to Brooks 38 series or approved equivalent. In either case, both the pull boxes must be constructed above specified manufacturers size, materials, and performance specifications. Box covers must be fully interchangeable with either Polymer Concrete Quazite Product No. PGL324HA00 approved equivalent. No other design, size, modification, or materials must be acceptable. Pull box covers should be marked "Street Lighting" or "Electric/Miami-Dade HD."
2. In situation where pull box is located outside of sidewalk, i.e. swale area, the pull box is to have a 5 ft

concrete apron (6" thick) placed around it. This item is for situations where replacement of a pull box is warranted or as directed by the Project Manager. No separate payment will be made for this item

K. Erecting Light Poles.

1. General: Install the light poles at the locations and in accordance with the details shown in the Plans. Unless otherwise specifically approved by Engineer, fasten bracket (truss) arms to the pole prior to erection. Do not field weld on any part of the pole assembly. Plumb the poles after erection and use metal shims or leveling nuts if necessary to obtain precise alignment. Use a thin cement grout where necessary to eliminate unevenness or irregularities in the top of the base.
2. Adjusting Anchor Bolts and Installing Nuts on Anchor Bolts: Where poles are to be placed on existing foundations or bases with anchor bolts in place, furnish poles with a base which fits the anchor bolt spacing. Include the cost of any necessary extension of existing anchor bolts in the price bid for the lighting system. For high mast light pole bases, install nuts on anchor bolts in accordance with FDOT 649-5.
3. Installation of Luminaire: Install the luminaire on the truss arm in accordance with the manufacturer's instructions, and place it so that the light pattern is evenly distributed along the roadway.
4. Electrical Connections: Make primary ballast connections in accordance with manufacturer's instructions. Install sufficient cable to allow all connections to be made outside the light pole base. Connect the ground conductor to the ground stud provided.
5. Identification Plates: If required by the Contract Documents, stamp the identification plate on the pole with an identifying number or legend. Number the poles consecutively, beginning with number 1. Stamp each light pole number with 3/4 inch figures and stamp each circuit number with 1/2 inch figures.
6. Screen Installation for High Mast Light Pole Bases: Install a screen in accordance with FDOT 649-6.

L. Grounding.

1. Ground in accordance with NEC, the Plans and local codes.
2. Ground each metal light pole, not on a bridge structure, with an approved rod, 20 feet in length and at least 5/8 inch in diameter.
3. For poles on bridge structures, bring the grounding conductors out to a pull box at each end of the structure and connect them to driven ground rods, 20 feet in length and at least 5/8 inch in diameter.
4. The 20 feet length of rod may be either two rods 10 feet in length connected by a threaded coupling and driven as a single rod or two rods 10 feet in length separated by at least 6 feet.
5. Make all bonds between ground wires and grounding electrode assemblies or arrays with an exothermic bond

with the following exception: do not exothermically bond grounding electrode to grounding electrode connections.

6. The work specified in this Subarticle will not be paid for directly, but will be considered as incidental work.
7. Ground all high mast poles in accordance with the details for grounding in the Design Standards, Index No. 17502.

M. Labeling.

1. Stencil labels on the cases of transformer and panel board with white oil paint, as designated by Engineer. Also, mark the correct circuit designations in accordance with the wiring diagram on the terminal marking strips of each terminal block and on the card holder in the panel board.

N. Markers.

1. Construct duct, cable, and splice markers as shown in the Plans, and place them over the ends of underground ducts and at each change in direction of cable or conduit run. Place markers flat on the ground with 1 inch projecting above finished grade.

O. Tests of Installation.

1. Upon completion of the work, test the installation to ensure that the installation is entirely free of ground faults, short circuits, and open circuits and that it is in satisfactory working condition. Furnish all labor, materials, and apparatus necessary for making the required tests. Remove and replace any defective material or workmanship discovered as a result of these tests at no expense to the Department, and make subsequent re-tests to the satisfaction of Engineer.
2. Make all arrangements with the power supplier for power. Pay all costs, excluding energy charges, required for the test period.
3. Not less than 48 hours prior to the beginning of the test period, give the power supplier the schedule for such test.
4. Test the installation under normal operating conditions during the seven day test period specified under Acceptance of Roadway Lighting below, rather than as a continuous burn test period.
5. If the work is not open to traffic at the end of the seven day test period, de-energize the lighting system until the work is opened.

P. Acceptance of Roadway Lighting.

1. The Contractor must maintain an accurate record of the work as actually installed during the progress thereof. Before final payment, the Contractor must furnish to Engineer, for his approval, three (3) complete sets of marked prints as stipulated under Subarticle 1.06, I, As Built Drawings," of the PWWM General Requirements.
2. Engineer may make partial acceptance of the roadway lighting based on satisfactory performance. Contract

Time will be charged during the entire roadway lighting evaluation period. Correct any defects in materials or workmanship which might appear during the evaluation period at no expense to the Department.

3. Transfer to the Department any guarantees on equipment or materials furnished by the manufacturer and ensure that the manufacturer includes with such guarantees the provision that they are subject to such transfer, and proper validation of such fact. The Department's written acceptance of roadway lighting and the transfer to the Department of all manufacturer guarantees will be conditions precedent to final acceptance of all work under the Contract in accordance with the conditions for Final Acceptance.

Q. Method of Measurement.

1. The quantities to be paid for will be as follows, completed and accepted:
 - a. Conduit: Payment will be made in accordance with FDOT Section 630. Additional conduit furnished and installed under the same trench or the same directional bore will be paid with separate pay item and will be also measured in feet.
 - b. Luminaire and Truss Arm: The Contract unit price will include the truss arm, luminaire with lamp, and all necessary mounting hardware as indicated in the Plans and the Design Standards.
 - c. Service Point: The Contract unit price will include the service pole, insulators, weatherheads, transformers, enclosures, panel boards, breakers, safety switches, H.O.A. switches, lightning protectors, fuses, photo electric assembly, meter base, and all external and internal conduit and conductors for the service as indicated in the Plans and the Design Standards.
 - d. Light Pole Foundation: The Contract unit price will include the foundation and anchor bolts with lock nuts and washers as indicated in the Plans and the Design Standards.
 - e. Luminaire: The Contract unit price will include the luminaire with lamp and necessary mounting hardware as indicated in the Plans and the Design Standards.
 - f. Pull Box: Payment will be Included under the light pole Bid Item.
 - g. High Mast Parts: The Contract unit price will include the part specified with all mounting hardware as indicated in the Contract Documents and the Design Standards.
 - h. Frangible Base for Light Pole: The Contract unit price will include the frangible base, attachments, bolts, and washers as indicated in the Plans and the Design Standards.
 - i. Photo Electric Control Assembly: The Contract unit price will include the photo electric control, transformers, conduit, and conductors as indicated in the Plans and the Design Standards.
 - j. Pre-Fab Pilaster: The Contract unit price will include the pilaster and all mounting hardware as indicated in the Plans.
 - k. High Mast Lighting Pole Complete: The Contract unit price will include the pole, luminaires with lamps,

lowering system, breakers and anchor bolts with lock nuts and washers, and foundation as indicated in the Plans and the Design Standards.

- i. Conductor: The length, in feet, as indicated in the Plans and the Design Standards. When more than one conduit is run under the same trench or under the same directional bore, use a different pay item. Pay item for conduit under the same trench and or same directional bore are contingent upon field condition and it may be increased, decreased, or eliminated by Engineer.
- m. Lighting Pole Complete: The contract unit price will include the pole, internal vibration damping device, truss arm, luminaire with lamp, pull box, anchor bolts with lock nuts and washers, frangible base, pole cable distribution system, and foundation.
- n. Pole Cable Distribution System: Include the surge protector, fuse holders with fuses, waterproof connectors and the waterproof wiring connection to the luminaries. Price to be included under the light pole pay item.

R. Basis of Payment.

- 1. Prices and payments will be full compensation for all work specified in this Section, including all materials, equipment and tests.

1) .Payment will be made under:

Item #	Description	Unit
715-4-111	Decorative light pole (Vertex illumination #VIAMDAP-391006- SDA06DB1-BL) including luminaire (Lumec RN20- 400 HPS-THA3 GL- SMABKTX) furnish & Install	EA
715-4- 112C	Light Pole Complete (F& I) standard pole, standard Foundation 40' high mounting	EA

2.04 PULL AND JUNCTION BOXES (REV. 06-23-11)

A. Description.

1. Furnish and install pull and junction boxes.
2. Remove and reset existing pull boxes when directed by the Engineer in areas of sidewalk repairs.

B. Materials.

1. Use Pull and Junction Boxes listed on the Department's Qualified Products List available at [http://www.miamidade.gov/pubworks/library/MDC TSS Qualified Products List.pdf](http://www.miamidade.gov/pubworks/library/MDC_TSS_Qualified_Products_List.pdf).
2. Ensure that all Pull and Junction Boxes Lids are marked in accordance with the latest edition of the Department's Qualified Products List.

C. Pull Boxes Installation.

1. Install pull boxes in accordance with the FDOT Design Standards, Index No. 17700. Ensure that the pull box cover is flush with the finished grade or sidewalk. Do not install pull boxes in roadways, driveways, parking areas, ditches or public sidewalk curb ramps.

D. Junction Boxes Installation.

1. Aerial Junction Boxes:

- a. Install aerial junction boxes in accordance with the FDOT Design Standards, Index No. 17733.

2. Mounted Junction Boxes:

- a. Install mounted junction boxes in accordance with the FDOT Design Standards, Index No. 17841. Ensure that the bottom surface of pole mounted junction boxes is a minimum of 4 feet above the finished grade.

3. Cable Terminations:

- a. Terminate signal cable in the terminal by inserting the bared conductors into a compression type terminal block and tightening the appropriate screws.
- b. When barrier terminal blocks are specified in the Contract Documents, crimp insulated forks or ring terminals to the bared conductors using a calibrated ratchet-crimping tool and connect the forks or ring terminals to the barrier terminal block by tightening the appropriate screws.
- c. Neatly form and tie wrap all cable terminations.
- d. Ground spare signal cable conductors in the controller cabinet. If disconnect hangers are specified in the Contract Documents, terminate spare wires at the terminal strip located inside the disconnect hangers. Individually cap or tape any additional spares in the disconnect hanger.
- e. Ensure all cable terminations for a mast arm assembly are terminated in the terminal compartment at the base of the mast arm pole.

- f. Rout and form the cable to allow access to the terminal screws. Do not cover the terminal identification numbers with the cable.

E. General Requirements.

1. Do not pull signal or interconnect cable through a pull box used for loop termination. Use separate pull boxes for signal and interconnect cables.
2. Use embedded junction boxes that include conduit, conduit expansion couplings, and miscellaneous hardware to make a complete and accepted installation.
3. Ground all metal covers in accordance with FDOT Section 620.
4. When specified in the Contract Documents, disregard the grounding requirements for metal covers for pull and junction boxes used exclusively for battery, a combination of battery and solar energy, or vehicle loop wires where signal or 120V interconnect power is not present.

F. Resetting of Pull Boxes

1. Where directed by the Engineer, remove and reset existing pull boxes meeting current specifications following the installation and general requirements stipulated herein.
2. Preserve box when demolishing sidewalk. Removal includes, but is not limited to; saw cutting full depth of sidewalk around box before demolition at no additional compensation. If box is damaged due to Contractor's negligence, Contractor must furnish a new replacement box at no additional cost.
3. Resetting may apply to any size pull box (including approximately 2' x 4' FPL & traffic signal fiber optic pull boxes).
4. Any serviceable salvaged box that is not reset must be delivered by Contractor to the PWD, TS&S yard, 7100 N.W. 36 Street, Miami, Florida at no additional cost.

G. Method of Measurement.

1. Pull And Junction Boxes (F&I): Will consist of the pull and junction boxes including all required hardware for the type of box and location as specified in these Contract Documents or at locations directed by the Engineer, and all labor and materials necessary for a complete and accepted installation.
2. Pull And Junction Boxes (Reset): The Contract unit price each for Resetting Pull and Junction Boxes, will include all required hardware for the type of box and location as specified in these Contract Documents or at locations directed by the Engineer, and all labor and materials necessary for a complete and accepted installation.

H. Basis of Payment.

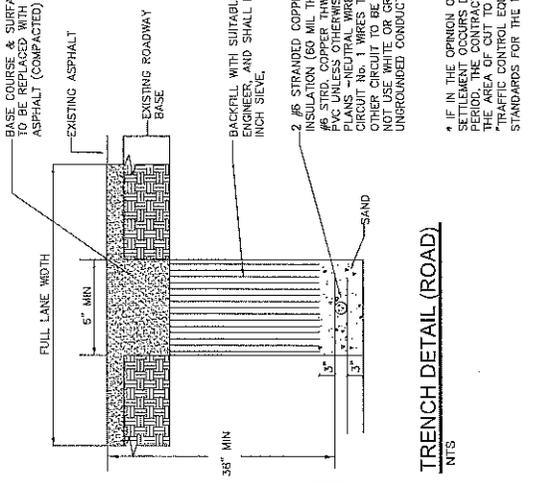
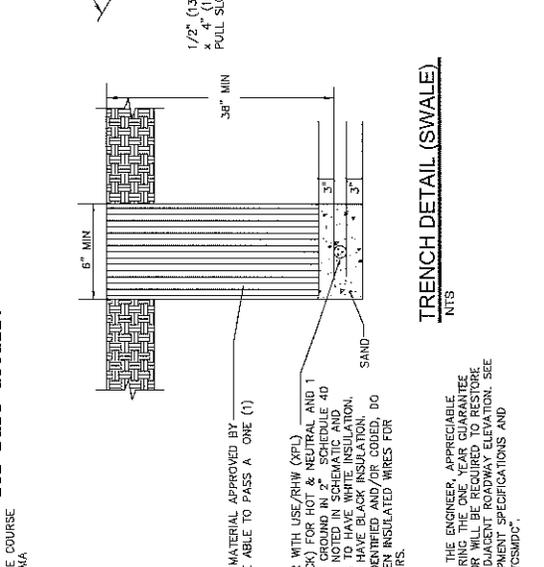
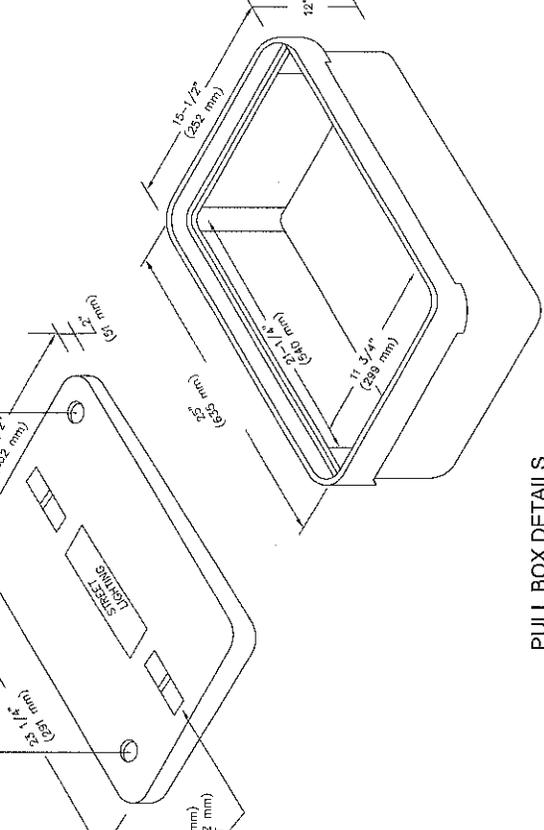
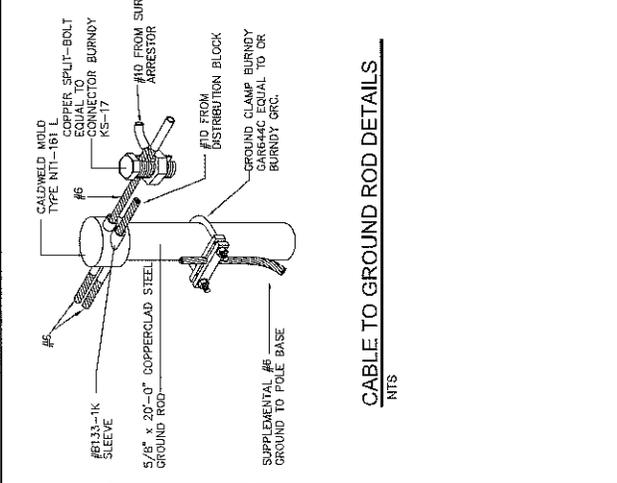
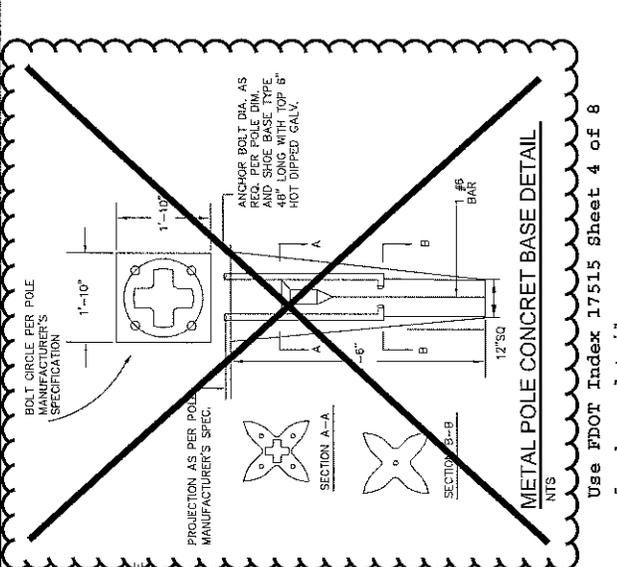
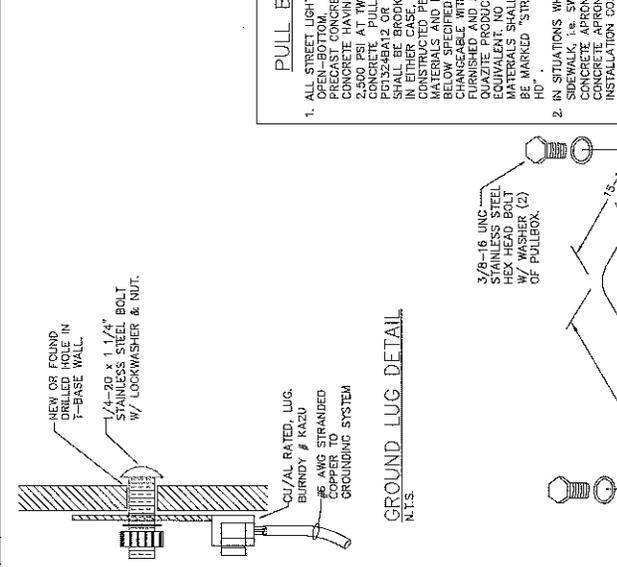
1. Pull And Junction Boxes (F&I): Price and payment will be full compensation for all work specified in this Article.
2. Pull And Junction Boxes (Reset): Price and payment will be full compensation for all work and materials necessary to reset pull boxes as specified in this Article. In no case shall County pay more for resetting rather than replacing a box.

3. Payment for embedded junction boxes will not be made separately. When boxes are embedded on structures, the Contractor shall include the cost of embedded junction boxes in the Contract unit price for the concrete substructure or superstructure items.
4. No separate payment will be made for Pull and Junction Boxes, the cost of Pull and Junction Boxes is to be included in the corresponding Light Pole pay items (715-4-111 and 715-4-112C). Except for pull boxes to be installed as part of the service point (load center) which are to be paid for the applicable items listed below, payment will be made at the Contract unit prices for the quantities completed and accepted by the Engineer:

Item No.	Description	Unit
715-14-112	Pull Box, Roadside, includes 20 ft. of ground rod)	EA.

REVISED SHEET No.3 FOR ADDENDUM No.3

HANDSOME COUNTY UTILITIES DEPARTMENT
Street Lighting Standard Details
 Project No. _____



PULL BOX SPECIFICATION:

- ALL STREET LIGHT PULLBOXES SHALL HAVE AN OPEN-BOTTOM QUAZITE POLYMER CONCRETE DESIGN OR PRECAST CONCRETE CONSTRUCTED OF CLASS 1 CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT TWENTY-EIGHT (28) DAYS. POLYMER CONCRETE SHALL BE EIGHT (8) DAYS POLYMER CONCRETE OR APPROVED EQUIVALENT. CONCRETE PULLBOX SHALL BE BROOKS 38 SERIES OR APPROVED EQUIVALENT. IN EITHER CASE, BOTH PULLBOXES SHALL BE CONSTRUCTED PER ABOVE SPECIFIED MANUFACTURERS SIZE AND FINISH. PULLBOXES SHALL BE FULLY INTERCHANGEABLE WITH EITHER PULLBOX. ALL PULLBOX COVERS AND INSTALLED SHALL BE POLYMER CONCRETE FINISHED WITH EITHER POLYMER CONCRETE OR APPROVED EQUIVALENT. CONCRETE PULLBOX COVERS SHALL BE FULLY INTERCHANGEABLE WITH EITHER PULLBOX. ALL PULLBOX COVERS SHALL BE MARKED "STREET LIGHTING" OR "ELECTRIC / MIAMI-DADE HD".
- IN SITUATIONS WHERE PULLBOX IS LOCATED OUTSIDE OF SIDEWALK, I.e. SWALE AREA, THE PULLBOX IS TO HAVE A 5" CONCRETE APRON (6" THICK) PLACED AROUND IT. COST OF CONCRETE APRON IS TO BE INCLUDED IN THE PULLBOX INSTALLATION COST.

GROUND LUG DETAIL:
 N.T.S.

PULL BOX DETAILS:
 N.T.S.

TRENCH DETAIL (SWALE):
 N.T.S.

TRENCH DETAIL (ROAD):
 N.T.S.

CABLE TO GROUND ROD DETAILS:
 N.T.S.

METAL POLE CONCRETE BASE DETAIL:
 N.T.S.

Use FDOT Index 17515 Sheet 4 of 8 for base detail.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
07/30/11	Luis O. Perez	Connectors per Pull Box Details			

REVISION	DATE	BY	DESCRIPTION
1	07/30/11	Luis O. Perez	Connectors per Pull Box Details

DATE	DESCRIPTION

DATE	DESCRIPTION

DATE	DESCRIPTION

DATE	DESCRIPTION

DATE	DESCRIPTION

STANDARD DETAIL SHEET

PULL BOX AND GROUNDING MISCELLANEOUS DETAILS

SHEET NO. 3

DATE: 04/15/2012

