

**Date:** December 2, 2013

**To:** Lester Sola, Director  
Internal Services Department  
Small Business Development Division

**From:**   
Jean Bernard Philippeaux  
Engineer 2  
Public Works and Waste Management  
Department

**Subject:** Notice of Construction Project:  
Project No. 20130202  
People's Transportation Plan (PTP) Roadway  
Improvements for NW 74th Street from NW  
87<sup>th</sup> Avenue to SR-826, FM #414731-5

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### **RECOMMENDATION**

Contracts and Specifications staff has evaluated the subject project and recommends 11% Disadvantaged Business Enterprise (DBE) participation. It is the policy of the State of Florida Department of Transportation's (FDOT) Local Agency Program (LAP) Agreement that DBEs, as defined in 49 Code of Federal Regulations (C.F.R.) Part 26, as amended, shall have the opportunity to participate in the performance of contracts financed in whole or in part with FDOT funds under this Agreement. The DBE requirements of applicable federal and state laws apply to this Agreement. The total estimated cost is \$6,085,639.00. The Public Works and Waste Management Department (PWWM) staff has checked the availability of DBE subcontractors and has attached the PWWM Project Measure Analysis and Recommendation findings along with other supporting documents for consideration. PWWM staff met with the Small Business Development (SBD) Division's Construction Manager to advise of PWWM's intent. This project is federally funded, therefore; the Community Workforce Program (CWP) is not applicable to this project.

### **BACKGROUND**

The Florida Department of Transportation (FDOT) performed a Project Development and Environmental (PD&E) Study for evaluation of the existing portions of NW 74th Street from NW 87 Avenue to SR-826/Palmetto Expressway. The analysis determined that a six-lane typical section is required to meet the expected future travel demand of the corridor. NW 74th Street corridor was divided into four segments. The segment from NW 107th Avenue to NW 87th Avenue is already constructed. This project is the fourth of the four segments of NW 74th Street from NW 87<sup>th</sup> Avenue to SR-826. After the construction completion of all segments, NW 74th Street will be transferred to FDOT and will become a State Road/SR-934. The construction cost will be reimbursed by FDOT through a LAP agreement. LAP funds will be available in July 2014.

Page 2  
RC Action  
20130202

If any additional information is needed, please call me at (305) 375-3547, or Frank Aira at (305) 375-2930.

JBP/jbp

Attachments (2)

C: Kelly Duncombe, ISD  
Laurie Johnson, ISD  
Bassam Moubayed, PWWM  
Frank Aira, P.E., CFM, PWWM  
Alfredo Munoz, P.E., PWWM  
Jean Bernard Philippeaux, PWWM  
Dianah Coakley, PWWM  
Lisset Cabrera, PWWM  
File

**DEPARTMENT INPUT**  
**CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Check applicable Ordinance(s):  90-143 Responsible Wage and Benefits       03-237 (formerly 03-1) Community Workforce Program

**PROJECT INFORMATION**    See attachment

**Contract/Project/\*Work Order No.:** 20130202

\*Reference corresponding project number when submitting a work order

**Contract/Project Title:** People's Transportation Plan (PTP) Roadway Improvements for NW 74th Street from NW 87th Avenue to SR-826, FM #414731-5

**Description/Scope of Work:** See Attached

**Estimated Cost:** 6085639 **Funding Source:** Federal funds

**Location of Project** (street address or beginning and ending points) i.e. 12345 NE 23<sup>rd</sup> Ct or Starts at 135 St. ends at 145 St.  
**Please see attached**

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP)**    See attachment

Engineer/Department or Agency's estimated required workforce for Project  Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Supervisor	<b>1</b>	<b>540</b>
Foremen	<b>1</b>	<b>540</b>
Operator	<b>2</b>	<b>540</b>

Comments: Please note the estimated number of days to complete the job may not be equal to actual amount of days indicated above.

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE)**    See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
	\$	%	
	\$	%	
	\$	%	

**RECOMMENDATION**

**Set-Aside:** Level 1  Level 2  Level 3  Trade Set-Aside  Sub-Contractor Goal  Workforce Goal  No Measure

**Basis for Recommendation:** Opportunity for DBE participation and Funding source

**Date submitted to DBD:** 12-2-13

**Contact Person:** Jean Bernard Philippeaux or Frank Aira

**Telephone No.:** 305-375-3547

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Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Laborers	<b>6</b>	<b>540</b>
Clearing and Grubbing	<b>3</b>	<b>540</b>
Earthwork	<b>3</b>	<b>540</b>

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Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Drainage and Structures	<b>4</b>	<b>540</b>
Concrete	<b>3</b>	<b>540</b>
Sound Barriers, Guardrail and Fence	<b>8</b>	<b>540</b>

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Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Pavement Markings and signs	<b>6</b>	<b>540</b>
Lighting	<b>4</b>	<b>540</b>

Comments: Please note the estimated number of days to complete the job may not be equal to actual amount of days indicated above.

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Miami-Dade County Public Works and Waste Management Department  
Contract/Project Measure Analysis and Recommendation

To: Lester Sola, Director  
Internal Services Department  
Small Business Development Division

From: Jean Bernard Philippeaux  
Engineer 2  
Public Works and Waste Management  
Management Department

Date: Monday, December 2, 2013

Department: Public Works and Waste Management

Contract Type:

Capital-Single Trade - Roadway Improvements

Project No.:

20130202

Re-submittal:  Yes; Previous Review Committee (RC) Submittal Dates

No

Project Title:

People's Transportation Plan (PTP) Roadway Improvements for NW 74th Street from NW 87th Avenue to SR-826, FM #414731-5

Standard Industrial Code (SIC):

16-Highway and Street Construction

Estimated Project Cost:

\$6,085,639.00

Funding Source:

Florida Department of Transportation (FDOT)/PTP

Bonding Requirements: Bid Bond— 5% of base bid amount  
Performance Bond- 100% of Contract Award Amount

Method of Award: Line Item

RPQ No.: 20130202

Project Title: People's Transportation Plan (PTP) Roadway Improvements for NW 74th Street from NW 87<sup>th</sup> Avenue to SR-826, FM #414731-5

Scope of Work

- A. Work under this Contract includes furnishing of all supervision, labor, materials, tools, equipment and performing all operations required to construct the Work in accordance with the Contract Documents.
- B. The project consists of widening and reconstruction of the existing road from a five-lane undivided to a six-lane divided roadway with turn lanes, bike lanes, raised median, sidewalks, curb & gutter, continuous storm drainage system, pavement markings and signing, traffic signalization, roadway lighting, landscaping and irrigation.

The project also includes removal of approximately 6751 CY of solid waste from the southeast sides of NW 74 Street & NW 87 Avenue and NW 74 Street & NW 84 Avenue intersections, and disposing of the excavated solid waste at a Class 1 Landfill. Also the work includes various construction activities within the remediation areas depicted on the plans such as: clearing and grubbing, furnishing and installing drainage structures, installing lateral lines between drainage structures, backfilling/compacting excavated areas. This Contamination assessment and remediation work is to be performed by a Contamination Assessment and Remediation (CAR) Contractor who will be coordinating his work with the Prime Roadway Contractor..

Required Contractor's Certification:

- A. Certificate of Competency Requirement:
  1. At the time of Bid and pursuant to the requirements of Section 10-3 of the Code of Miami-Dade County, Florida and these Solicitation and Contract Documents, the Bidder must hold a valid, current, and active:
    - a. Certificate of Competency from the County's Construction Trades Qualifying Board as a General Engineering Contractor or as a Specialty Engineering Contractor, commensurate to the requirements of the Scope of Work, in one or more engineering crafts to include paving engineering contractor. The specialty contractor shall subcontract with a qualified contractor any work which is incidental to the specialty but is specified in the aforementioned Code as being the work of other than that of the Engineering Specialty for which certified; or
  2. Pursuant to Section 255.20, F.S. and in lieu of the above, the County may consider a bid from a Bidder that is a duly licensed Contractor in good standing that has been prequalified and considered eligible by the Florida Department of Transportation (FDOT) under Section 337.14, F.S. and Chapter 14-2, Florida Administrative Code, to perform the work described in the Contract Documents. Contractors seeking consideration under this Paragraph shall submit along with the Bid Documents for review and consideration, current copy(ies) of their FDOT Certificate(s) of Qualification, Certification of Work Underway, and Status of Contract(s) On Hand. Acceptable FDOT prequalification(s) necessary to perform the Work specified in the Contract Documents include the Flexible Paving and Drainage Work Class.

RPQ No.: 20130202

RPQ Title: People's Transportation Plan (PTP) Roadway Improvements for NW 74th Street from NW 87<sup>th</sup> Avenue to SR-826, FM #414731-5

- A. Additional Contractor Requirements For Work With Traffic Control Devices or Street Lighting
1. In addition to the license(s) required of Contractor, all personnel engaged in installing, modifying, repairing, removing or maintaining: roadway street lighting systems; traffic signalization; or any other electrical/electronic traffic control device in Miami-Dade County must:
    - a. Perform work under the direction of a Master Electrician that is present at the job site or able to respond within 2 hours of notification (4 hours for roadway street lighting systems).
    - b. Perform all work under the direct supervision of a Journeyman Electrician. For Traffic Signalization or Control Devices the Journeyman Electrician must be certified as an International Municipal Signal Association (IMSA) certified Traffic Signal Technician (TST) Level II or Level III. All work related at or pertaining to the controller must be performed by an IMSA certified TST Level II (Field).
- B. Have in their possession a wallet size card or a photocopy of their certifications and licenses. Failure to provide said documents will be cause for removal of employee from the work site, issuance of citations, and shutdown of the Work by the County.

Additional Information – Permits, Licenses, Certifications, and General Regulations

Permits that are issued by the Public Works Department, Miami-Dade County for construction within the public right-of-way, as well as additional permits, which may be required by other municipalities or agencies, including those required for tree removal, **will be the responsibility of the Contractor.**

County Road Construction Projects – NO PERMITS issued to sub-contractors. Except work related to Traffic Signalization, School Flashing Signals, Internally Illuminated Street Name Sign (IISNS), Street lighting, and Traffic Signal Loops which will require a separate permit issued to an Electrical Contractor to perform such work.

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Miami-Dade County Public Works and Waste Management Department  
Contract/Project Measure Analysis and Recommendation

RPQ No.: 20130202

RPQ Title: People's Transportation Plan (PTP) Roadway Improvements for NW 74th Street from NW 87<sup>th</sup> Avenue to SR-826, FM #414731-5

PWWM Areas for possible measures:

Clearing and Grubbing, Earthwork, Drainage Structures and Pipes, Concrete, Guardrail and Fence; Sodding and Tree Relocation; Irrigation; Pavement Marking and Signage, Signalization, and Lighting

PWD Areas recommended for CSBE Subcontractor Goal:

Concrete, Pavement Marking and Signage

Contract Measure Recommendation:

- No Measure
- Set-Aside:
  - Level I
  - Level II
  - Level III
- Trade Set-Aside(s):
- Aggregate Set-Aside
- CSBE Subcontractor Goal
- CWP
- DBE Subcontractor Goal: 11%
  - 8% Concrete
  - 3% Pavement Marking & signage

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Miami-Dade County Public Works and Waste Management Department  
Contract/Project Measure Analysis and Recommendation

RPQ No.: 20130202

RPQ Title: People's Transportation Plan (PTP) Roadway Improvements for NW 74th Street from NW 87<sup>th</sup> Avenue to SR-826, FM #414731-5

Reason for Recommendation:

This is a single trade project; none of the primary trade related work (Road) can be subcontracted in accordance with the recommendation for award of a construction contract pursuant to the Expedite Ordinance No. 00-104. Additionally, staff has met with the design engineer, construction project manager, and members of the industry and concluded that there is ancillary work required to complete this project which may be subcontracted for DBE participation. Ancillary work to be performed under this project includes all construction trade categories are listed under "Areas for possible measures."

All areas to be subcontracted require special licenses and/or certifications. Also, some categories of work are highly specialized and require special, heavy machinery and/or equipment that are typically owned and/or leased by the contractor.

Comments:

None

CSBE Prime History of Similar Contracts/Projects for previous three years:

NA

Similar Projects previously submitted for RC Action:

20090095  
20060469  
20070626  
20060084  
20130004

Scope of Work History Summary – Subcontracting Opportunities:

Areas recommended for CSBE Goal (PWW/SBD):

NA

Areas used to meet subcontractor goal (Awarded contractor):

MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY DIVISION		
ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COSTS		
NW 74 STREET FROM NW 87 AVE TO SR-826		
PWD PROJECT No. 20060444		
DATE: NOVEMBER 19, 2013		
ITEM	COST	TOTAL
	ESTIMATE	JOB (%)
MAINTENANCE OF TRAFFIC	91,148	1.50%
GENERAL CONSTRUCTION OPERATIONS	89,620	1.47%
CONTROL OF EROSION & WATER POLLUTION	2,708	0.04%
CLEARING & GRUBBING	404,986	6.65%
EARTHWORK	1,162,329	19.10%
REMOVAL OF SOLID WASTE MATERIAL	81,012	1.33%
BITUMINOUS SURFACE COURSES AND CONCRETE PAVEMENT	1,191,830	19.58%
DRAINAGE STRUCTURES & PIPES	794,140	13.05%
CONCRETE	489,163	8.04%
GUARDRAIL & FENCE	23,320	0.38%
SODDING & NEW LANDSCAPING	84,038	1.38%
IRRIGATION	53,300	0.88%
SIGNALIZATION	469,042	7.71%
PAVEMENT MARKING & SIGNAGE	159,466	2.62%
LIGHTING	362,205	5.95%
BRIDGE	-	0.00%
<b>BASE ESTIMATED COST</b>	<b>5,458,308</b>	
CONTINGENCY FUND (10%)	545,831	8.97%
<b>SUBTOTAL</b>	<b>6,004,139</b>	
OFF DUTY LAW ENFORCEMENT OFFICER	15,000	0.25%
BITUMINOUS MATERIAL ADJUSTMENT	20,000	0.33%
PWD PERMIT ALLOWANCES	20,000	0.33%
FPL CONNECTION ALLOWANCE	1,500	0.02%
FPL UTILITY RELOCATION	25,000	0.41%
<b>GRAND TOTAL</b>	<b>\$ 6,085,639</b>	<b>100%</b>

## ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COSTS

NW 74 STREET FROM NW 87 AVE TO SR-826

PROJECT NO.20060444

ITEM NO.	ITEM	UNIT	QUANT.	CURRENT	
				SET PRICE	AMOUNT
<b>GENERAL CONSTRUCTION OPERATIONS</b>					
102-1A	MAINTENANCE OF TRAFFIC	LS	1	91148.00	91,148.00
102-72 or 102-72A or 102-72PH2	CONCRETE BARRIER - CLASS E (TEMPORARY, INCLUDING RELOCATION)	LF	5,040	15.00	75,600.00
102-74-1 OR 102-74-1A	BARRICADES ( TEMPORARY- TYPE I, II, VP & DRUM ).	EA/DAY	300	0.27	81.00
102-74-2	BARRICADES ( TEMPORARY, TYPE III, 6' )	EA/DAY	30	0.49	14.70
102-60A or 102-75 or 102-75A or 102-75-PH2	CONSTRUCTION SIGNS (TEMPORARY, POST MOUNTED)	EA/DAY	60	0.39	23.40
102-76 OR 102-76A	FLASHING ARROW BOARD (TEMPORARY, MULTIMODE) / ADVANCE WARNING ARROW PANEL	EA/DAY	2	9.15	18.30
102-77	HIGH INTENSITY FLASHING LIGHTS (TEMPORARY, TYPE "B")	EA/DAY	30	0.49	14.70
102-81	VEHICULAR IMPACT ATTENUATOR (INCLUDING RELOCATION & RESET) (TO BE USED WHEN REQUIRED FOR MAINTENANCE OF TRAFFIC AND APPROVED BY THE ENGINEER)	EA	12	1149.35	13,792.20
102-99	VARIABLE MESSAGE SIGN (TEMPORARY)	EA/DAY	4	18.99	75.96
104-18	INLET PROTECTION SYSTEMS	EA	49	55.27	2,708.23
<b>CLEARING AND GRUBBING</b>					
110-1-1B	CLEARING AND GRUBBING (INCLUDES REMOVAL OF EXISTING SIDEWALK, FLEXIBLE PAVEMENT, CURB AND GUTTER, DRAINAGE STRUCTURES, VEGETATION, TREES AND ANY DEBRIS TO BE DISPOSED OF IN LEGAL AREAS PROVIDED BY THE CONTRACTOR)	LS	1	404985.77	404,985.77
<b>EARTHWORK</b>					
120-1	REGULAR EXCAVATION	CY	14595	6.74	98,370.30
120-4	SUBSOIL EXCAVATION ( THIS ITEM IS CONTINGENT UPON THE ACTUAL FIELD CONDITIONS AND MAY BE INCREASED, DECREASED OR ELIMINATED BY THE ENGINEER)	CY	4316	7.45	32,154.20
120-6	EMBANKMENT (INCLUDES BORROW) (THIS ITEM IS CONTINGENT UPON EXISTING FIELD CONDITIONS AND MAY BE INCREASED, DECREASED OR ELIMINATED BY THE ENGINEER)	CY	12450	14.63	182,143.50
160-4	TYPE "B" STABILIZATION (12" THICK) (MIN. C.B.R. 30)	SY	51535	3.34	172,126.90
285-709	BASE OPTIONAL (BASE GROUP 9)	SY	47781	14.18	677,534.56
<b>REMOVAL OF SOLID WASTE MATERIAL</b>					
125-4-2	SOLID WASTE REMOVAL AND DISPOSAL	CY	6751	12.00	81,012.00
<b>BITUMINOUS SURFACE COURSES AND CONCRETE PAVEMENT</b>					
327-70-1A	MILLING EXISTING ASPHALT PAVEMENT (1" AVERAGE DEPTH)	SY	15410	2.82	43,456.20
327-70-5	MILLING EXISTING ASPHALT PAVEMENT (2" AVERAGE DEPTH)	SY	3585	3.01	10,799.81
334-1-23	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC "C")	TON	6415	111.50	715,272.50
337-7-21A	APSHALTIC CONCRETE FRICTION COURSE (FC-9.5) (RUBBER) (1" THICKNESS)	TON	3493	113.00	394,709.00
339-1	MISCELLANEOUS ASPHALT PAVEMENT	TON	59	165.63	9,772.17
339-2	TEMPORARY ASPHALT	TON	162	110.00	17,820.00
<b>DRAINAGE STRUCTURES AND PIPES</b>					
400-1-15	CLASS I CONCRETE (MISCELLANEOUS) (TRENCH BUILD-UP, COLLARS, PIPE PLUGS, STRUCTURE PLUGS ETC.) (THIS ITEM IS CONTINGENT UPON FIELD CONDITIONS AND MAY BE INCREASED DECREASED OR ELIMINATED BY THE ENGINEER)]	CY	26	231.66	6,023.16
400-0-11	CONCRETE CLASS NS (GRAVITY WALL)	CY	36	550.00	19,800.00
425-01	CORE AND TIE-IN TO EXIST. DRAINAGE STRUCTURES	EA	14	699.17	9,788.38
425-1-311	INLETS (CURB) (TYPE P-1) < 10'	EA	1	4860.60	4,860.60
425-1-351	INLET CURB ( TYPE P-5 ) < 10'	EA	16	3690.68	59,050.88
425-1-361	INLET, CURB (TYPE P-6) < 10'	EA	7	3936.13	27,552.91
425-1-365	INLET TOP (CURB) (TYPE 6) PARTIAL	EA	1	2498.99	2,498.99
425-1-451B	INLETS (CURB) (TYPE J-5) (<10')	EA	6	5446.23	32,677.38
425-1-452	INLETS (CURB) (TYPE J-5) (>10')	EA	10	5780.29	57,802.90
425-1-463	INLET CURB (TYPE J-6) (<10')	EA	3	6264.01	18,792.03
425-1-462	INLET CURB (TYPE J-6) >10'	EA	4	5961.06	23,844.24
425-1-541A	INLET TYPE D DITCH BOTTOM (<10')	EA	2	2626.00	5,252.00
425-2-41B	MANHOLE (P-7T) (<10')	EA	2	2898.40	5,796.80
425-2-73A	MANHOLES TYPE J-7T (PARTIAL)	EA	13	2035.97	26,467.66
425-2-72C	MANHOLE TYPE J-7T (> 10')	EA	8	3893.06	31,144.50
425-5B	ADJUST MANHOLE - MIAMI-DADE COUNTY ONLY - (THIS ITEM IS CONTINGENT UPON FIELD CONDITIONS AND MAY BE INCREASED, DECREASED OR ELIMINATED BY THE ENGINEER)	EA	7	438.33	3,068.31
425-5-1	ADJUST MANHOLE (UTILITIES) (MIAMI-DADE WATER & SWERE ONLY)	EA	6	290.99	1,745.94
425-6	ADJUST EXISTING VALVE BOXES (MIAMI-DADE COUNTY ONLY) (THIS ITEM IS CONTINGENT UPON FIELD CONDITIONS AND MAY BE INCREASED, DECREASED OR ELIMINATED BY THE ENGINEER)	EA	51		10,874.73
425-73	ADJUST AND/OR RELOCATE EXISTING FIRE HYDRANTS (DADE COUNTY-OWNED ONLY)	EA	17	2126.67	36,153.39
430-175-115	PIPE CULVERT- 15" DIAMETER / PIPE CULVERT (15" SS)	LF	111	43.00	4,773.00
430-175-118	PIPE CULVERT- 18" DIAMETER	LF	1352	44.00	59,488.00
430-175-124	PIPE CULVERT- 24" DIAMETER	LF	216.5	49.00	10,608.50
430-175-136	PIPE CULVERT (36" SS) (NON-PERFORATED)	LF	1766	72.50	128,035.00
443-70-6-3	EXFILTRATION DRAIN- 36" DIAMETER (INCLUDES THE COST OF PERFORATED PIPE, BALLAST ROCK, PLASTIC FILTER FABRIC, EXCAVATION AND BACKFILLING WITH SELECTED FILL MATERIAL)	LF	1530.5	135.93	208,040.87
<b>CONCRETE</b>					
520-1-10	CONCRETE CURB AND GUTTER , TYPE "F" (6" CURB, 18" GUTTER) (INCLUDES COST OF LIMEROCK)	LF	13516	15.72	212,471.52
520-70	CONCRETE TRAFFIC SEPARATOR (TYPE IV) 3' WIDE	LF	318	27.00	8,586.00
520-5-42	CONCRETE SEPARATOR (TYPE IV) 6' WIDE	LF	188	42.73	8,033.24
522-1(1)	CONCRETE SIDEWALK (4" THICK RESTORATION AND NEW ,CLASS I CONCRETE, 3000 P.S.I ) (INCLUDING PEDESTRIAN RAMPS)	SY	4516	30.33	136,970.28
522-2	CONCRETE SIDEWALK (6" THICK, 3000 P.S.I. CONCRETE AT 28 DAYS) (INCLUDES DRIVEWAYS)	SY	851	36.53	31,087.03
523-1-3	PATTERNED PAVEMENT -VEHICULAR AREAS -GREEN BIKE	SY	1626	56.59	92,015.34
<b>BARRIERS GUARDRAIL AND FENCE</b>					
550-10-228	RESETTING EXISTING FENCE	LF	2120	11.00	23,320.00
<b>SODDING AND TREE RELOCATION</b>					
570-1-2	PERFORMCE TURF (SODDING)	SY	5615	2.50	14,037.50
580-1-	LANDSCAPE COMPLETE -SMALL PLANS PER FDOT	LS	1	62856.67	30,000.00
580-1-2	LANDSCAPE COMPLETE - LARGE PLANS PER FDOT	LS	1	62856.67	36,400.00
107-1	LITTER REMOVAL	AC	7.2	200.00	1,440.00
107-2	MOWING	AC	7.2	300.00	2,160.00
<b>IRRIGATION</b>					
590-70	IRRIGATION SYSTEM	LS	1		53,300.00
<b>SIGNALIZATION</b>					
555-1-1	DIRECTIONAL BORE (LESS THAN 6")	LF	837	19.50	16,321.50
630-1-12	CONDUIT 2" PVC, UNDERGROUND	LF	1927	13.14	25,320.78

## ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COSTS

NW 74 STREET FROM NW 87 AVE TO SR-826

PROJECT NO.20060444

ITEM NO.	ITEM	UNIT	QUANT.	CURRENT	
				SET PRICE	AMOUNT
630-1-13	CONDUIT 2" PVC UNDER PAVEMENT (THIS ITEM IS CONTINGENT UPON FIELD CONDITIONS AND MAY BE INCREASED, DECREASE OR ELIMINATED BY THE ENGINEER)	LF	2125	23.72	50,405.00
630-1-16B	CONDUIT 2-2" PVC INTERCONNECT INSTALLED IN OPEN TRENCH (CONDUITS FOR SIGNAL INTERCONNECT AND LIGHTING PLACED IN THE SAME TRENCH WILL BE PAID UNDER THIS ITEM)	LF	730		3,212.00
				4.40	
632-7-1	TRAFFIC CONTROL CABLE	PI	4	3884.00	15,536.00
635-1-11	PULL AND JUNCTION PULL BOXES (PULL BOXES)	EA	62	529.40	32,822.80
635-1-13	ELECTRICAL POWER SERVICES	AS	3	1548.41	4,645.23
639-2-1G	SERVICE WIRE(#6 AWG WITH THW INSULATION)(THREE CONDUCTOR SET)(BLACK,WHITE AND GREEN))	LF	700		2,814.00
				4.02	
639-3-12	ELECTRICAL SERVICE DISCONNECT	EA	3	1100.00	3,300.00
641-2-12	CONCRETE POLE TYPE II SERVICE POLE	EA	3	1000.00	3,000.00
649-31-101	MAST ARM STANDARD [(36' ARM) (DS-20)]	AS	2	12580.75	25,161.50
647-11-40	MAST ARM STANDARD [(40' ARM) (DS-16)]	AS	1	14739.00	14,739.00
649-31-102	MAST ARM STANDARD (46' ARM) (DS-19)	AS	1	15103.70	15,103.70
647-11-60	MAST ARM STANDARD (60' ARM) (DS-26)	AS	2	21472.08	42,944.16
649-31-105	MAST ARM STANDARD [(78' ARM) (DS-36)]	AS	1	30000.00	30,000.00
649-31-103	STEEL MAST ARM ASSEMBLY (60')	AS	3	23130.00	69,390.00
650-51-311A	TRAFFIC SIGNAL (1 WAY, 3 SECTIONS, 12" STANDARD ALUMINUM) (COMPLETE WITH HORIZONTAL MOUNTING BRACKET & LAMPS)	AS	26	1022.67	26,589.42
650-51-511	TRAFFIC SIGNAL, (1 WAY, 5 SECTION, 12" STANDARD ALUMINUM) (COMPLETE WITH HORIZONTAL MOUNTING BRACKET AND LAMPS)	AS	4	1544.10	6,176.40
653-191	PEDESTRIAN SIGNAL (1 SECTION 1 WAY) LED COUNTDOWN	EA	10	957.85	9,578.50
653-192	PEDESTRIAN SIGNAL (2 SECTION 1 WAY) LED COUNTDOWN	EA	4	1800.00	7,200.00
646-1-11	SIGNAL HEAD AUXILIARIES	EA	8	1026.25	8,210.00
660-1-109B	INDUCTIVE LOOP DETECTOR (TYPE 9)	EA	17	207.58	3,528.86
660-2-101	LOOP ASSEMBLY	AS	23	920.12	21,162.76
665-11	PEDESTRIAN DETECTOR (INCLUDES PUSH BUTTON SIGN)	EA	11	333.20	3,665.20
670-5-12	TRAFFIC CONTROLLER ASSEMBLY (Modify) (170)	AS	3	5000.00	15,000.00
690-10	REMOVE TRAFFIC SIGNAL HEAD ASSEMBLY	EA	18	72.36	1,302.48
690-20	REMOVE PEDESTRIAN SIGNAL HEAD ASSEMBLY	EA	2	75.68	151.37
690-31	REMOVE SIGNAL PEDESTAL	EA	1	67.00	67.00
690-40A	REMOVE MAST ARM ASSEMBLY	EA	5	877.00	4,385.00
690-50	REMOVE CONTROLLER ASSEMBLY	EA	2	576.78	1,153.56
690-90	REMOVE CABLING AND CONDUIT	PI	3	873.93	2,621.79
690-100	REMOVE MISCELLANEOUS SIGNAL EQUIPMENT (PULL BOXES)	PI	3	1177.95	3,533.85
<b>PAVEMENT MARKING AND SIGNAGE</b>					
699-1-1A	INTERNALLY ILLUMINATED SIGN	EA	10	2693.33	26,933.30
700-20-40	RELOCATE EXISTING SIGNS, SINGLE POST	AS	8	112.20	897.60
700-20-11	ROADSIDE SIGN INCLUDING POST AND STRAPS (SEE PLAN SHEET FOR SIGN DESCRIPTION)	AS	48	150.00	7,200.00
700-21-11	MULTI-POST SIGN	AS	8	489.28	3,914.24
700-20-12	ROADSIDE SIGN INCLUDING POST AND STRAPS 12 TO 25 SF	AS	24	339.00	8,136.00
700-23-113	OVERHEAD TRUSS CANTELEVER SIGN	AS	1	50000.00	50,000.00
700-21-40	MULTI-POST SIGN RELOCATE	AS	1	800.00	800.00
700-20-60	REMOVE EXISTING SIGN	EA	53	38.67	2,049.51
700-23-600	OVERHEAD TRUSS CANTELEVER SIGN REMOVE	AS	1	3000.00	3,000.00
700-48-18	SIGN PANEL (LESS THAN 15 SF.)	EA	13	333.48	4,335.29
700-48-60B	RELOCATE EXISTING SIGNS	EA	1	115.33	115.33
705-10-11	OBJECT MARKER	EA	8	144.00	1,152.00
708-3	REFLECTIVE PAVEMENT MARKERS (CLASS B, MONO OR BI-DIRECTIONAL, ALL COLORS)	EA	1446	4.46	6,449.16
710-11-290	PAINTED ISLAND NOSE	SF	312	11.34	3,538.08
711-11-160	MESSAGES THERMOPLASTIC	EA	17	110.00	1,870.00
711-11-170	DIRECTIONAL ARROWS (THERMOPLASTIC)	EA	72	58.12	4,184.64
711-11-151	GUIDELINES [(8" DOTTED) (2'-4" WHITE) (THERMOPLASTIC)]	LF	1307	1.29	1,686.03
711-11-111	SOLID TRAFFIC STRIPE (6" WHITE)	NM	2,446	1584.15	3,874.83
711-11-131	SKIP TRAFFIC STRIPE (6" WHITE) THERMOPLASTIC	GM	3,635	1350.00	4,907.25
711-11-122	SOLID TRAFFIC STRIPE (8" WHITE) (THERMOPLASTIC)	LF	5175	1.10	5,692.50
711-11-123	SOLID TRAFFIC STRIPE (12" WHITE) (THERMOPLASTIC)	LF	2602	1.76	4,579.52
711-11-124	SOLID TRAFFIC STRIPE (18" WHITE) (THERMOPLASTIC)	LF	715	2.37	1,695.54
711-11-125	SOLID TRAFFIC STRIPE (24" WHITE) (THERMOPLASTIC)	LF	732	3.56	2,605.43
711-11-222	SOLID TRAFFIC STRIPE (8" YELLOW) THERMOPLASTIC	LF	200	0.91	182.00
711-11-224	SOLID TRAFFIC STRIPE (18" YELLOW) (THERMOPLASTIC)	LF	231	2.34	539.86
711-11-211	SOLID TRAFFIC STRIPE (6" YELLOW) THERMOPLASTIC	NM	2,262	3027.50	6,848.21
711-14-160	THERMOPLASTIC (PREFORMED) (BICYCLE SYMBOL WITH ARROW)	EA	29	58.15	1,686.35
<b>LIGHTING</b>					
715-1-12	CONDUCTOR, F&I, INSULATED NO. 6 (G)	LF	19932	2.32	46,318.90
715-2-12B	LIGHTING CONDUIT (F&I) UNDER PAVEMENT	LF	590	21.00	12,387.64
715-2-11A	CONDUIT PVC SCHEDULE 40, 2"	LF	5295	11.03	58,403.85
715-7-11A	LOAD CENTER ( INCLUDES SWITCH, WEATHERHEAD & WIRE AT SERVICE POINT)	EA	2	5807.13	11,614.26
715-2-115C	CONDUIT 2" PVC(ADD'L CONDUIT INST. IN EXIST. OPEN TRENCH)	LF	5885	1.99	11,711.15
715-7-41	LOAD CENTER (REMOVE)	EA	1	625.00	625.00
715-14-11	PULLBOX, ROADSIDE	EA	8	572.17	4,577.36
715-14-12A	PULLBOX, SIDEWALK	EA	37	526.78	19,490.86
715-69	MAINTENANCE OF EXISTING LIGHTING OR TEMPORARY LIGHTING	LS	1	15500.00	15,500.00
715-4-112	LIGHTING POLE COMPLETE (ALUMINUM) (45' MOUNTING HEIGHT)(15' ARM)	EA	30	4248.50	127,455.00
715-4-400	RELOCATE LIGHTING POLE	EA	1	2118.00	2,118.00
715-4-600	REMOVE LIGHTING POLE	EA	25	446.10	11,152.50
715-500-1C	POLE CABLE DISTRIBUTION SYSTEM [(CONVENTIONAL KIT) (FURNISH AND INSTALL)]	EA	30	1361.69	40,850.70
<b>BASE ESTIMATE</b>					5,458,308.00
999 OR	Z-999	CONTINGENCY FUND (10% OF BASE ESTIMATE AMOUNT)		LS	545,830.80
<b>SUB-TOTAL</b>					6,004,138.80
<b>DEDICATED ALLOWANCES</b>					
102-10A		OFF-DUTY LAW ENFORCEMENT OFFICER	LS	30,000.00	15,000.00

