

Date: September 5, 2014

To: Gary T. Hartfield, Director
Internal Services Department
Small Business Development Division

From: James Ferreira, P.E. 
Engineer 2
Public Works and Waste
Management Department

Subject: Notice of Construction Project:
Project No. CDJPA-2013.01
PWWM Project No. 20140080
Joint Participation Agreement (JPA) between
Miami-Dade County and the City of Doral,
NW 97 Avenue from NW 70 Street to NW 74
Street
CONSTRUCTION - RESUBMITTAL

RECOMMENDATION

It is recommended that Small Business Development (SBD) review and approve the attached Community Small Business Enterprise (CSBE) contract measure for Project No. CDJPA-2013.01, JPA between Miami-Dade County and the City of Doral, NW 97 Avenue from NW 70 Street to NW 74 Street. The Capital Improvements staff has evaluated the subject project and recommends a 19.3% or \$259,654.01 CSBE Subcontractor Goal, based on the project scope. The base cost estimate is \$1,351,608.03. Additionally, staff has attached the PWWM Project Measure Analysis and Recommendation findings along with other supporting documents for your consideration. Additionally, according to Geocode, since this project is not located in a Designated Target Area (DTA), the Community Workforce Program (CWP) is not applicable.

BACKGROUND

This project is a JPA between Miami-Dade County and the City of Doral. Both parties wish to facilitate the construction of a road improvement project in Miami-Dade County. Work under this Contract shall include, but is not limited to the following: furnishing all supervision, labor, materials, equipment, tools and performing all operations necessary for the construction of a new four (4) lane roadway from NW 70 Street to NW 74 Street with storm drainage system, pavement markings, signing, roadway lighting, associated sidewalk work, and curb and gutter work.

The JPA was approved, under Resolution No. R-48-14, by the Board of County Commissioners of Miami-Dade County, Florida on January 22, 2014. But, due to the inclusion of additional roadway items, the estimated cost has increased from \$887,957.00 to \$1,351,608.03.

Page 2
SBD Action
CDJPA-2013.01

The City of Doral shall procure the services of a licensed contractor holding an engineering contractor's license to construct the Project. The City of Doral shall also comply with all applicable County contract compliance and oversight measures relating to the expenditure of County funds in accordance with Section 6 of the attached JPA.

Prior to the advertisement to solicit a licensed contractor to construct the Project, the City of Doral will contact PWMM's Contracts and Specifications Section to ensure their compliance.

If any additional information is needed, please call me at (305) 375-3267, or Alejandro Martinez-Esteve at (305) 375-2930.

JF/jf

Attachments (2)

C: Laurie Johnson, ISD/SBD
Alice Hidalgo-Gato, ISD/SBD
Vivian Forhat-Diaz, ISD/SBD
Bassam Moubayed, PWMM
Javier Heredia, PWMM
Eric Steinberg, PWMM
Rolando Jimenez, PWMM
Alejandro Martinez-Esteve, PWMM
Dianah Coakley, PWMM
Lisset Cabrera, PWMM
File

**Miami-Dade County Public Works Department Input
Contract/Project Measure Analysis and Recommendation**

To: Gary T. Hartfield, Director
Internal Services Department
Small Business Development Division

From: James Ferreira, P.E.
Engineer 2
Public Works and Waste Management Department

Date: Friday, September 05, 2014

Department: Public Works and Waste Management Department

Contract Type: Joint Participation Agreement (JPA)

JPA Project No.: CDJPA-2013.01

Re-submittal:

No

JPA Title:

JPA between Miami-Dade County and the City of Doral
NW 97 Avenue from NW 70 Street to NW 74 Street

Standard Industrial Code (SIC):

16-Highway and Street Construction

Estimated Project Cost:

\$1,351,608.03

Funding Source:

Road Impact Fee (RIF) District 1

Bonding Requirements: Bid Bond– 5% of Base Bid Amount
Performance Bond– 100% of Contract Award Amount

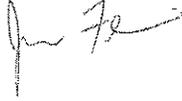
Method of Award: Line Item

**Miami-Dade County Public Works Department Input
Contract/Project Measure Analysis and Recommendation**

JPA No.: CDJPA-2013.01

JPA Title: JPA between Miami-Dade County and the City of Doral
NW 97 Avenue from NW 70 Street to NW 74 Street

Detailed Scope of Work:



This is a JPA for the construction of a roadway improvement project along NW 97 Avenue from NW 70 Street to NW 74 Street which includes the construction of a new four (4) lane roadway from NW 70 Street to NW 74 Street with storm drainage system, pavement markings, signing, roadway lighting, associated sidewalk work, and curb and gutter work.

Required Contractor's Certification:

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 Certificate of Competency as a General Engineering Contractor or as a Specialty Engineering Contractor, commensurate to the requirements of the Project's Scope of Work, in one or more engineering crafts to include paving engineering and concrete work. 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.

Pursuant to Section 255.20, Florida Statutes (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 pre-qualified 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 Project's Scope of Work shall include the Flexible Paving Work Class.

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

Permits that are issued by the Public Works & Waste Management 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.**

**Miami-Dade County Public Works Department Input
Contract/Project Measure Analysis and Recommendation**

JPA No.: CDJPA-2013.01

JPA Title: JPA between Miami-Dade County and the City of Doral
NW 97 Avenue from NW 70 Street to NW 74 Street

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.

Roadway Lighting:

Miami-Dade County Contractor's Certificate of Competency for the Sub-Contractor is required in one of the following categories: Electrical or other categories as applicable to Chapter 10 of the Code of Miami-Dade County.

Roadway Lighting Contractor Licenses, Certifications, and General Regulations

General:

Contractor must have the following license(s), certifications, and must abide by the general requirements as set forth by the Miami-Dade Public Works & Waste Management Department (PWWM) to be qualified to perform Roadway Lighting Constructions/repairs, and/or maintenance activities in Miami-Dade County, Florida.

Contractor License:

1. Miami-Dade County Master Electrical Contractor License; or
2. State of Florida Certified Electrical Contractor License

In addition, to the above license(s) any Contractor who is engaged in installing, modifying, repairing, or maintaining the Roadway Street Light System in Miami-Dade County shall have all work performed under the supervision of an individual possessing a Certificate of Competency as a Master Electrician.

This individual must be on the job site or able to respond within four (4) hours of notification of any problem or emergency which may arise.

Roadway Lighting Contractor Licenses, Certifications, and General Regulations

Employee License(s), Certifications, and Requirements:

A Journeyman Electrician shall be present on the job site (each location) to supervise at all times the work in progress.

**Miami-Dade County Public Works Department Input
Contract/Project Measure Analysis and Recommendation**

JPA No.: CDJPA-2013.01

JPA Title: JPA between Miami-Dade County and the City of Doral
NW 97 Avenue from NW 70 Street to NW 74 Street

All Contractor employees engaged in working within the Public Right-of-Way shall possess an approved and valid Florida Department of Transportation (FDOT) Maintenance of Traffic (MOT) certification. Additionally, all persons performing flagging operations shall have, as a minimum, an approved and valid FDOT Flagging certification. The Contractor shall sign an affidavit with PWWM affirming that the Contractor and their employees have the proper and valid licenses and certification on each contract (County, State, Private or other Government Agency), prior to start of work. As need occurs, due to license(s) and certification(s) expiration and/or changes in personnel, the Contractor is required to submit the new documents to the Department immediately.

Traffic Signalization:

Miami-Dade County Contractor's Certificate of Competency for the Sub-Contractor is required in one of the following categories: Electrical Contractor or Specialty Electrical Contractor or other categories as applicable to Chapter 10 of the Code of Miami-Dade County.

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

Permits that are issued by the Public Works & Waste Management 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.**

TRAFFIC SIGNAL CONTRACTOR LICENSES, CERTIFICATIONS and GENERAL REGULATIONS

GENERAL:

Every Traffic Signal Contractor must have the following license(s), certifications, and must abide by the general requirements as set forth by the Miami-Dade Public Works & Waste Management Department (PWWM) to be qualified to perform traffic signal installations, repairs, and/or maintenance activities in Miami-Dade County, Florida on any traffic signalization and/or flasher installation:

CONTRACTOR LICENSE:

1. Miami-Dade County Master Electrical Contractor License; or
2. State of Florida Certified Electrical Contractor License; or
3. Miami-Dade County Electrical Utility Contractor License; or
4. State of Florida Electrical Utility Contractor License

**Miami-Dade County Public Works Department Input
Contract/Project Measure Analysis and Recommendation**

JPA No.: CDJPA-2013.01

JPA Title: JPA between Miami-Dade County and the City of Doral
NW 97 Avenue from NW 70 Street to NW 74 Street

EMPLOYEE LICENSE(S), CERTIFICATIONS and REQUIREMENTS:

In addition, to the above license(s) any Traffic Signal Contractor who is engaged in installing, modifying, repairing, or maintaining traffic signalizations in Miami-Dade County shall have all work performed under the supervision of an individual possessing a Certificate of Competency as a Master Electrician, and a technician certified by the International Municipal Signal Association (IMSA) as a Traffic Signal Technician Level II.

Either individual must be on the job site or able to respond within four (4) hours of notification of any problem or emergency which may arise.

A Journeyman Electrician or a technician certified by the IMSA as a Traffic Signal Technician Level I shall be present on the job site (each location) to supervise at all times the traffic signalization work in progress.

All Traffic Signal Contractor employees engaged in working within the Public Right-of-Way shall possess an approved and valid Florida Department of Transportation (FDOT) Maintenance of Traffic (MOT) certification. Additionally, all persons performing Flagging operations shall have, as a minimum, an approved and valid FDOT Flagging certification.

The Traffic Signal Contractor shall provide the Public Works & Waste Management Department, Traffic Signal and Signs Division (TS&S), 7100 NW 36 Street, Miami, FL 33166, a copy of all of the above licenses and certifications for their company and employees, including a list of their employees who they are planning on using on each project.

The Contractor shall sign an affidavit with PWWM affirming that the Contractor and their employees have the proper and valid licenses and certification on each contract (County, State, Private or other Government Agency), prior to start of work.

The Contractor shall not be required to resubmit copies of licenses and certifications once submitted to the Department as long as they are valid and still pertain. As need occurs, due to license(s) and certification(s) expiration and/or changes in personnel, the Contractor is required to submit the new documents to the Department immediately. All Traffic Signal Contractor employees working within the Public Right-of-Way shall have in their possession a wallet size card or a photocopy of their certification(s) or license(s), at all times. Failure to provide said document(s) shall be cause for removal of employee(s) from the work site, issuance of citation(s) and/or entire shutdown of work by the County.

**Miami-Dade County Public Works Department Input
Contract/Project Measure Analysis and Recommendation**

JPA No.: CDJPA-2013.01

JPA Title: JPA between Miami-Dade County and the City of Doral
NW 97 Avenue from NW 70 Street to NW 74 Street

Pavement Markings and Signage

The work under pavement markings and signage (Thermoplastic traffic stripes and Markings) consists of placing traffic stripes and markings using a material of the type that is extruded onto the pavement surface in a molten state by mechanical means, with surface application of glass spheres. Upon cooling to normal pavement temperature these materials shall produce an adherent reflectorized pavement marking of specified thickness and width and be capable of resisting deformation by traffic.

PWWM Areas for possible measures:

Clearing and Grubbing; Earthwork; Concrete Pavement; Drainage Structures and Pipes; Concrete; Traffic Stripes and Markings: Painted and/or Thermoplastic; and Electrical: Lighting.

PWWM Areas recommended for CSBE Subcontractor Goal:

Electrical: Lighting
Traffic Stripes & Markings: Painted and/or Thermoplastic
Concrete Curb & Gutter

Contract Measure Recommendation:

No Measure

Set-Aside:

Level I Level II Level III

Trade Set-Aside(s):

Aggregate Set-Aside

CSBE Subcontractor Goal: 19.3%

- 10.1% Electrical: Lighting
- 1.9% Traffic Stripes & Markings: Painted and/or Thermoplastic
- 7.3% Concrete Curb & Gutter

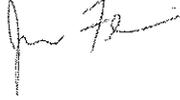
CWP: Not Applicable; Work location does not appear to be in a Designated Target Area (DTA).

**Miami-Dade County Public Works Department Input
Contract/Project Measure Analysis and Recommendation**

JPA No.: CDJPA-2013.01

JPA Title: JPA between Miami-Dade County and the City of Doral
NW 97 Avenue from NW 70 Street to NW 74 Street

Reason for Recommendation:



This is a single trade project; none of the primary trade related work (Roadway Construction) can be subcontracted as per the JPA. Additionally, staff has concluded that there is ancillary work required to complete this project which may be subcontracted. Ancillary work includes all categories 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 by the contractor.

CSBE Prime History of similar Contracts/Projects for previous three years: Not Applicable

Similar projects previously submitted for RC Action:

Not Applicable

Scope of Work History Summary – Subcontracting Opportunities:

Areas recommended for CSBE Goal (PWWM/SBD):

Pavement Marking, Electrical, and Concrete Curb & Gutter

Areas used to meet subcontractor goal (Awarded Contractor):

Not applicable

CSBE Contract Measure /Project No. /Amount achieved:

Not Applicable

Jose Olivo

Public Works Director

August 13, 2014

Public Works and Waste Management Department
c/o Director
Miami-Dade County
111 NW First Street, Suite 1640
Miami, Florida 33128

Re: NW 97 Avenue Joint Participation Agreement Amendment Request

Dear Director,

On February 14, 2014, Miami-Dade County (County) and the City of Doral (City) entered into a Joint Participation Agreement (JPA) for the construction of roadway improvements along NW 97 Avenue from NW 70 Street to NW 74 Street. At the time the JPA was developed, the scope of the project included construction of a new four (4) lane roadway, a storm drainage system, pavement markings, signing, roadway lighting, sidewalk and curb and gutter that had an estimated construction cost of \$976,752.70. The scope of the project remained generally consistent during the final design phase of the project; however, the inclusion of the following items was required as the City proceeded with the design of the project:

- The cost developed for the JPA did not anticipate extending the six foot sidewalk throughout the corridor and the significant increase in the amount of curb and gutter that would be needed for the project. The difference in quantities amounts to a \$136,600 increase in the cost estimate developed as part of the design.
- The difference in quantities and unit costs developed for the JPA and design cost estimates for eight inch limerock base resulted in a \$145,000 increase in the design cost estimate.
- The cost developed as part of the JPA included two inches of friction course whereas the pavement design approved by the County proposed two inches of structural course and one inch of friction course. The additional asphalt resulted in a \$109,000 increase in the cost estimate developed as part of the design.
- As a result of the approved typical roadway section, all 136 palm trees that exist along the corridor need to be relocated. The JPA cost estimate did not include this item which amounts to a \$68,000 increase in the cost estimate developed as part of the design.
- The existing fence along both sides of the corridor needs to be reset due the change in elevation as part of the roadway construction. The resetting of the fences was not anticipated during the development of the JPA and is estimated to cost \$40,000.
- As the subtotal increased due to the items noted above, so did items such as Mobilization and Contingency that are calculated as a percentage of the subtotal. The difference in subtotals resulted in a \$125,200 increase in the cost estimate developed as part of the design.

August 6, 2014
Jose Olivo
Page 2 of 2

The construction cost developed as part of the final design is estimated at \$1,625,300. The inclusion of the items noted above along with other requirements and differences in estimating the project cost has resulted in an increase from the approved JPA amount of \$648,560. As such, the City would like to request an amendment to the JPA in the amount of \$648,560 in order to cover all required eligible costs.

If you should have any questions or need any additional information, please feel free to contact Jorge Gomez at (305) 593-6740 or by email at Jorge.Gomez@cityofdoral.com.

Respectfully,

Jose Olivo, P.E.
Public Works Director

FIRST AMENDMENT TO JOINT PARTICIPATION AGREEMENT FOR NW 97 AVENUE FROM NW 70 STREET TO NW 74 STREET BETWEEN MIAMI-DADE COUNTY AND THE CITY OF DORAL

This First Amendment to the Joint Participation Agreement is made and entered into this _____ day of _____, 2014, by and between Miami-Dade County, a political subdivision of the State of Florida, herein referred to as the "County", and the City of Doral, a political subdivision of the State of Florida, herein referred to as the "City".

WITNESSETH

WHEREAS, pursuant to Resolution No. R-48-14, approved by the Board of County Commissioners of Miami-Dade County, Florida, on January 22, 2014, the parties hereto entered into a Joint Participation Agreement to facilitate the construction of a road improvement project in Miami-Dade County, (the "Agreement") along NW 97 Avenue, from NW 70 Street to NW 74 Street in Doral, Miami-Dade County, as more particularly described in the Agreement (the "Project"); and

WHEREAS, due to the inclusion of additional roadway items, an additional \$648,547.30 is required to adjust the amount provided under the Joint Participation Agreement from \$976,752.70 to \$1,625,300.00, and

WHEREAS, the Agreement allows for the amendment of the of the County funds available for the Project subject to the approvals of the parties' respective governing boards;

NOW, THEREFORE, in consideration of the mutual desires of the parties

hereto, the following modifications are made to the aforementioned Agreement:

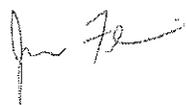
2.1 Funding Amount, Reimbursement of Project Costs: The County agrees to provide funds up to ~~\$976,752.70~~\$1,625,300.00 (this amount includes ten percent (10%) contingency) for eligible costs, as defined herein, incurred by the City for the construction of the Project. The County shall disburse to the City funds for the Project in the manner set forth in Section 4. The County shall incur no liability for any costs in excess of said funding amount unless there has been a duly authorized increase approved by the Board of County Commissioners. The City shall not be obligated to commence work should the bid amount exceed the funding provided by the County. If the bid amount exceeds the funding amount, the City reserves its rights to reject all bids and re-bid the Project.

2.2. County Payments of Project Costs: The County funds provided for eligible expenses as defined herein, incurred for the construction of the Project under this Agreement are specified below:

| <u>Funding Amount</u> | <u>Funding Source</u> | <u>County Fiscal Year of Commitment</u> |
|--|----------------------------|---|
| \$976,752.70 <u>\$1,625,300.00</u> | Road Impact Fee District 1 | 2014-2015 |

In all other respects, except as herein amended, the original Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties hereto set their hands and official seals the day and year first above written.

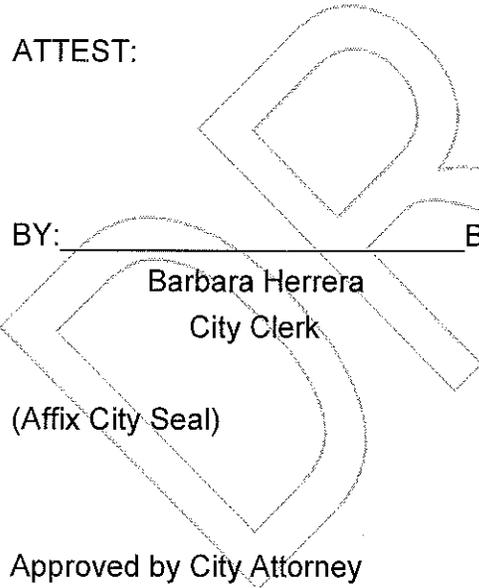
ATTEST:

HARVEY RUVIN
CLERK OF THE BOARD

MIAMI-DADE COUNTY, FLORIDA,
BY ITS BOARD OF
COUNTY COMMISSIONERS
BY: _____
County Mayor or County Mayor' Designee

Approved by County Attorney
as to form and legal sufficiency _____
County Attorney

ATTEST:
CITY OF DORAL, a municipal
corporation of the State of Florida

BY: _____ BY: _____
Barbara Herrera
City Clerk
Edward A. Rojas
City Manager

(Affix City Seal)

Approved by City Attorney
as to legal form and correctness:

City Attorney

for Jm
ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST ESTIMATE

PROJECT: NW 97th AVENUE FROM NW 70th STREET TO NW 74th
 ESTIMATE: 100% ESTIMATE
 PREPARED BY: ALEJANDRO A. LEON, PE
 REVIEWED BY: EITHEL M. SIERRA, PE
 CITY OF DORAL PM: JORGE GOMEZ, PE
 DATE: 9/5/2014

| ITEM | PAY ITEM | DESCRIPTION | UNITS | AVERAGE UNIT COST | QUANTITY | TOTAL AMOUNT |
|--------------------------|-------------|--|-------|-------------------|----------|----------------------|
| ROADWAY PAY ITEMS | | | | | | |
| 1 | 0102 3 | COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE | CY | \$ 16.45 | 113 | \$ 1,858.85 |
| 2 | 0102 14 | TRAFFIC CONTROL OFFICER | MH | \$ 59.79 | 48 | \$ 2,868.92 |
| 3 | 0102 60 | WORK ZONE SIGN | ED | \$ 0.27 | 3075 | \$ 830.25 |
| 4 | 0102 74 1 | TEMPORARY BARRICADE, TYPES I, II, D1, VP, DRUM, OR LCD | ED | \$ 0.14 | 5225 | \$ 731.50 |
| 5 | 0102 74 2 | BARRICADE, TEMPORARY, TYPE III, 6' | ED | \$ 0.34 | 3660 | \$ 1,244.40 |
| 6 | 0102 76 | ARROW BOARD / ADVANCE WARNING, ARROW PANEL | ED | \$ 5.63 | 75 | \$ 422.25 |
| 7 | 0102 77 | HIGH INTENSITY FLASHING LIGHTS (TEMP - TYPE B) | ED | \$ 0.29 | 610 | \$ 176.90 |
| 8 | 0102 99 | CHANGEABLE VARIABLE MESSAGE SIGN (TEMPORARY) | ED | \$ 12.49 | 28 | \$ 349.72 |
| 9 | 0104 10 3 | SEDIMENT BARRIER | LF | \$ 1.07 | 3039 | \$ 3,251.73 |
| 10 | 0104 16 | INLET PROTECTION SYSTEM | EA | \$ 66.63 | 11 | \$ 732.93 |
| 11 | 0110 1 1 | CLEARING & GRUBBING | AC | \$ 14,825.00 | 3.147 | \$ 46,654.28 |
| 12 | 0120 1 | REGULAR EXCAVATION | CY | \$ 6.67 | 864 | \$ 5,762.88 |
| 13 | 0120 4 | SUBSOIL EXCAVATION | CY | \$ 8.04 | 1848 | \$ 11,167.96 |
| 14 | 0120 6 | EMBANKMENT | CY | \$ 14.48 | 5528 | \$ 80,045.44 |
| 15 | 0160 4 | TYPE B STABILIZATION (CBR-30) | SY | \$ 1.71 | 11139 | \$ 19,047.69 |
| 16 | 0162 1 11 | PREPARED SOIL LAYER, FINISH SOIL, 6" | SY | \$ 12.60 | 3582 | \$ 45,133.20 |
| 17 | 0285 706 | OPTIONAL BASE (BASE GROUP 6) (LIMEROCK BASE OPTION ONLY) | SY | \$ 20.00 | 11093 | \$ 221,860.00 |
| 18 | 0327 70 1 | MILLING EXISTING ASPHALT PAVEMENT (1" AVG. DEEP) | SY | \$ 2.25 | 268 | \$ 598.50 |
| 19 | 0334 2 13 2 | HOT MIX ASPHALT STRUCTURAL COURSE (TRAFFIC C) (SP-12.5) (2" THICK) | TN | \$ 93.18 | 1184.0 | \$ 110,325.12 |
| 20 | 0337 8 32 | HOT MIX ASPHALTIC FRICTION COURSE (TRAFFIC C) (FC-9.5) (1" THICK) | TN | \$ 150.00 | 564.2 | \$ 84,630.00 |
| 21 | 0520 1 10 | CONCRETE CURB & GUTTER, TYPE F | LF | \$ 21.33 | 4606 | \$ 98,245.98 |
| 22 | 0520 2 4 | CONCRETE CURB, TYPE D | LF | \$ 16.19 | 8 | \$ 133.38 |
| 23 | 0520 5 41 | TRAFFIC SEPARATOR CONCRETE, TYPE IV, 4' W/DE | LF | \$ 38.30 | 120 | \$ 4,596.00 |
| 24 | 0522 1 | CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK | SY | \$ 38.08 | 1788 | \$ 67,325.44 |
| 25 | 0522 2 | CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK | SY | \$ 45.00 | 157 | \$ 7,065.00 |
| 26 | 0527 2 | DETECTABLE WARNINGS | SF | \$ 50.00 | 29 | \$ 1,450.00 |
| 27 | 0550 10 228 | FENCING, TYPE B, 5.1-8.0, RESET EXISTING | LF | \$ 10.00 | 1418 | \$ 14,180.00 |
| 28 | 0550 10 240 | FENCING, TYPE B, 7.1-8.0, STANDARD | LF | \$ 22.00 | 30 | \$ 660.00 |
| 29 | 0550 10 248 | FENCING, TYPE B, 7.1-8.0, RESET EXISTING | LF | \$ 18.00 | 1102 | \$ 19,836.00 |
| 30 | 0550 10 948 | FENCING, SPECIAL (ALUMINUM PICKET), 7.1-8.0, RESET EXISTING | LF | \$ 50.00 | 89 | \$ 4,450.00 |
| 31 | 0570 1 2 | PERFORMANCE TURF, SOD | SY | \$ 2.13 | 3582 | \$ 7,629.66 |
| 32 | 0635 2 11 | PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE | EA | \$ 412.76 | 4 | \$ 1,651.04 |
| 33 | 0710 11 111 | PAINTED PAVEMENT MARKINGS, STD., WHITE, SOLID, 6" | NM | \$ 807.75 | 1 | \$ 807.75 |
| 34 | 0710 11 122 | PAINTED PAVEMENT MARKINGS, STD., WHITE, SOLID, 8" | LF | \$ 0.29 | 1515 | \$ 439.35 |
| 35 | 0710 11 123 | PAINTED PAVEMENT MARKINGS, STD., WHITE, SOLID, 12" | LF | \$ 0.56 | 494 | \$ 276.64 |
| 36 | 0710 11 124 | PAINTED PAVEMENT MARKINGS, STD., WHITE, SOLID, 18" | LF | \$ 0.70 | 460 | \$ 322.00 |
| 37 | 0710 11 125 | PAINTED PAVEMENT MARKINGS, STD., WHITE, SOLID, 24" | LF | \$ 1.03 | 42 | \$ 43.26 |
| 38 | 0710 11 131 | PAINTED PAVEMENT MARKINGS, STD., WHITE, SKIP, 6", 10-30 SKIP | GM | \$ 307.30 | 0.447 | \$ 137.38 |
| 39 | 0710 11 151 | PAINTED PAVEMENT MARKINGS, STD., WHITE, DOTTED, 6" | LF | \$ 0.37 | 104 | \$ 38.48 |
| 40 | 0710 11 211 | PAINTED PAVEMENT MARKINGS, STD., YELLOW, SOLID, 6" | NM | \$ 793.04 | 0.901 | \$ 714.53 |
| 41 | 0710 11 224 | PAINTED PAVEMENT MARKINGS, STD., YELLOW, SOLID, 18" | LF | \$ 0.99 | 348 | \$ 344.52 |
| ROADWAY SUBTOTAL | | | | | | \$ 867,730.73 |

John F. [Signature]

| ITEM | PAY ITEM | DESCRIPTION | UNITS | AVERAGE UNIT COST | QUANTITY | TOTAL AMOUNT |
|---------------------------|--------------|--|-------|-------------------|----------|----------------------|
| DRAINAGE PAY ITEMS | | | | | | |
| 42 | 0425 1 351 | INLET S, CURB, TYPE P-5, <10' | EA | \$ 3,686.05 | 2 | \$ 7,332.10 |
| 43 | 0425 1 352 | INLET S, CURB, TYPE P-5, >10' | EA | \$ 4,572.19 | 1 | \$ 4,572.19 |
| 44 | 0425 1 362 | INLET S, CURB, TYPE P-6, >10' | EA | \$ 4,500.00 | 2 | \$ 9,000.00 |
| 45 | 0425 1 451 | INLETS, CURB, TYPE J-5, <10' | EA | \$ 8,755.83 | 3 | \$ 26,267.49 |
| 46 | 0425 1 452 | INLETS, CURB, TYPE J-5, >10' | EA | \$ 9,500.00 | 1 | \$ 9,500.00 |
| 47 | 0425 1 462 | INLETS, CURB, TYPE J-6, >10' | EA | \$ 6,297.76 | 2 | \$ 12,595.52 |
| 48 | 0430 175 115 | PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"/S/CD | LF | \$ 77.11 | 346 | \$ 26,680.06 |
| 49 | 0430 175 136 | PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"/S/CD | LF | \$ 90.00 | 3 | \$ 270.00 |
| 50 | 0443 70 6 | FRENCH DRAIN, 36" | LF | \$ 130.00 | 1240 | \$ 161,200.00 |
| DRAINAGE SUBTOTAL | | | | | | \$ 257,417.36 |

| ITEM | PAY ITEM | DESCRIPTION | UNITS | AVERAGE UNIT COST | QUANTITY | TOTAL AMOUNT |
|--|-------------|---|-------|-------------------|----------|---------------------|
| SIGNING AND PAVEMENT MARKINGS PAY ITEMS | | | | | | |
| 51 | 0700 1 11 | SINGLE POST SIGN, F&I, LESS THAN 12 SF | AS | \$ 345.00 | 13 | \$ 4,485.00 |
| 52 | 0700 1 50 | SINGLE POST SIGN, RELOCATE | AS | \$ 118.15 | 1 | \$ 118.15 |
| 53 | 0700 1 60 | SINGLE POST SIGN, REMOVE | AS | \$ 16.45 | 9 | \$ 148.05 |
| 54 | 0706 6 | RETRO-REFLECTIVE PAVEMENT MARKERS | EA | \$ 3.31 | 314 | \$ 1,039.34 |
| 55 | 0710 11 290 | PAINTED PAVEMENT MARKINGS, STD., YELLOW, ISLAND NOSE | SF | \$ 1.97 | 104 | \$ 204.88 |
| 56 | 0711 11 123 | THERMOPLASTIC, STD., WHITE, SOLID, 12" | LF | \$ 1.80 | 484 | \$ 869.20 |
| 57 | 0711 11 124 | THERMOPLASTIC, STD., WHITE, SOLID, 18" | LF | \$ 2.47 | 460 | \$ 1,136.20 |
| 58 | 0711 11 125 | THERMOPLASTIC, STD., WHITE, SOLID, 24" | LF | \$ 3.11 | 42 | \$ 130.62 |
| 59 | 0711 11 151 | THERMOPLASTIC, STD., WHITE, DOTTED / GUIDELINE | LF | \$ 0.90 | 104 | \$ 93.60 |
| 60 | 0711 11 160 | THERMOPLASTIC, STD., WHITE, MESSAGE | EA | \$ 105.78 | 11 | \$ 1,174.58 |
| 61 | 0711 11 170 | THERMOPLASTIC, STD., WHITE, ARROW | EA | \$ 53.76 | 14 | \$ 752.64 |
| 62 | 0711 11 224 | THERMOPLASTIC, STD., YELLOW, SOLID, 18" | LF | \$ 2.45 | 348 | \$ 856.52 |
| 63 | 0711 14 160 | THERMOPLASTIC, PREFORMED, WHITE, MESSAGE | EA | \$ 256.20 | 8 | \$ 2,049.60 |
| 64 | 0711 14 170 | THERMOPLASTIC, PREFORMED, WHITE, ARROWS | EA | \$ 140.19 | 8 | \$ 1,121.52 |
| 65 | 0711 16 111 | THERMOPLASTIC, STD., OTHER SURFACES, WHITE, SOLID, 6" | NM | \$ 4,112.38 | 0.616 | \$ 2,533.23 |
| 66 | 0711 16 112 | THERMOPLASTIC, STD., OTHER SURFACES, WHITE, SOLID, 8" | NM | \$ 4,200.00 | 0.287 | \$ 1,205.40 |
| 67 | 0711 16 131 | THERMOPLASTIC, STD., OTHER SURFACES, WHITE, SKIP, 6" 10-30 SKIP | GM | \$ 1,322.13 | 0.447 | \$ 590.99 |
| 68 | 0711 16 211 | THERMOPLASTIC, STD., OTHER SURFACES, YELLOW, SOLID, 6" | NM | \$ 4,296.78 | 0.901 | \$ 3,871.41 |
| SIGNING AND PAVEMENT MARKING SUBTOTAL | | | | | | \$ 22,410.92 |

for 72

| ITEM | PAY ITEM | DESCRIPTION | UNITS | AVERAGE UNIT COST | QUANTITY | TOTAL AMOUNT |
|--|------------|--|-------|-------------------|----------|------------------------|
| LIGHTING PAY ITEMS | | | | | | |
| 69 | 0630 2 11 | CONDUIT, FURNISH & INSTALL, OPEN TRENCH | LF | \$ 9.95 | 2145 | \$ 21,342.75 |
| 70 | 0635 2 11 | PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE | EA | \$ 412.76 | 16 | \$ 6,604.16 |
| 71 | 0715 1 12 | LIGHTING CONDUCTORS, F&I, INSULATED, No.8-6 | LF | \$ 1.09 | 6435 | \$ 7,014.15 |
| 72 | 0715 4 111 | LIGHT POLE COMPLETE, F&I, WIND SPEED 150, POLE - 40' | EA | \$ 4,500.00 | 14 | \$ 63,000.00 |
| 73 | 0715 7 11 | LOAD CENTER, F&I, SECONDARY VOLTAGE | EA | \$ 30,260.00 | 1 | \$ 30,260.00 |
| 74 | 0715 500 1 | POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL | EA | \$ 558.14 | 14 | \$ 7,827.98 |
| LIGHTING SUBTOTAL | | | | | | \$ 136,049.62 |
| LANDSCAPING PAY ITEMS | | | | | | |
| 75 | 0110 15 2 | ARBORIST WORK- TREE PRESERVATION AND RELOCATION | EA | \$ 500.00 | 136.00 | \$ 68,000.00 |
| LANDSCAPING SUBTOTAL | | | | | | \$ 68,000.00 |
| PROJECT SUBTOTAL: | | | | | | \$ 1,351,608.03 |
| | | 0102-1 MAINTENANCE OF TRAFFIC: | | | 2% | \$ 27,032.16 |
| PROJECT SUBTOTAL INCLUDING MOT: | | | | | | \$ 1,378,640.19 |
| | | 0101-1 MOBILIZATION: | | | 8% | \$ 110,291.21 |
| | | CONTINGENCY: | | | 10% | \$ 137,864.02 |
| PROJECT GRAND TOTAL | | | | | | \$ 1,626,795.42 |