


**Date:** April 1, 2022

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

**From:**   
Alfredo E. Munoz, P.E.  
Chief, Capital Improvements Division  
Department of Transportation and Public Works

**Subject:** Notice of Construction Project:  
Capital Project No. 20210092  
Roadway improvements to NE 151 Street from  
East of Railroad Tracks to Bay Vista Boulevard

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**RECOMMENDATION**

The Department's Capital Improvements staff completed the review of the subject RPQ in accordance with the applicable provisions of Implementing Order 3-22 and recommends a Small Business Enterprise - Construction (SBE-CONST) measure. A Community Workforce Program (CWP) goal, if applicable, is to be determined by Small Business Development.

Scope of Work:	Multiple Trade – Roadway Improvements
Engineer Project Base Cost Estimate	
Including Contingency:	\$9,886,906.97
SBE-CONST Measure:	6.36%
SBE-GS Measure:	N/A
CWP:	As Applicable

**SCOPE OF WORK**

Work includes but is not limited to the reconstructing the existing NE 151 Street four (4) lane road to a six (6) lane road from Biscayne Boulevard to Bay Vista Boulevard. These improvements include, but are not limited to raised medians, sidewalks, bike lanes, curb & gutters, storm drainage system, pavement marking and signage, roadway lighting and environmental mitigation. The project length is approximately 0.876 miles.

Should you require any additional information, please call me at (305) 375-2097, or Roxana Bayarre at (305) 375-3267.


Attachments (2)

AM/kf

cc:	Laurie Johnson, ISD/SBD	Jhonnatan Escalante, ISD/SBD
	Roxana Bayarre, P.E., DTPW	Daniel Viaud, DTPW
	Rene Idarraga, P.E., DTPW	Miguel Soria, P.E., DTPW
	Leandro Ona, P.E., DTPW	
	Barbara S. Mesa, DTPW	

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
CONTRACT / PROJECT MEASURE ANALYSIS AND RECOMMENDATION

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

**From:** Alfredo E. Munoz, P.E.   
Chief, Capital Improvements Division  
Department of Transportation and Public Works (DTPW)

**Date:** Friday, April 1, 2022

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**CONTRACT INFORMATION**

**Contract Type:** Capital: Multiple Trade – Roadway Improvements

**Request for Price Quotation (RPQ) No:** 20210092

**RPQ Title:** Roadway improvements to NE 151 Street from East of Railroad Tracks to Bay Vista Boulevard

**Re-submittal:** No

**Standard Industrial Code (SIC) / North American Industry Classification Code (NAICS):** 1611 / 237310 - Highway, Street & Bridge Construction

**Estimated Base Project Cost including Contingency:** \$9,886,906.97

**Funding Source:** RIF

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

**Method of Award:** Line Item

**PROJECT INFORMATION**

**Scope of Work**

Work includes but is not limited to the reconstructing the existing NE 151 Street four (4) lane road to a six (6) lane road from Biscayne Boulevard to Bay Vista Boulevard. These improvements include, but are not limited to raised medians, sidewalks, bike lanes, curb & gutters, storm drainage system, pavement marking and signage, roadway lighting and environmental mitigation. The project length is approximately 0.876 miles.

**RPQ No.:** 20210092  
**RPQ Title:** Roadway improvements to NE 151 Street from East of Railroad Tracks to Bay Vista Boulevard

**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. 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 and Drainage Work Classes.

**Experience Requirement:**

The Bidder, through full-time personnel employed by the Bidder, must demonstrate their experience as the prime contractor or subcontractor in at least one successfully completed project performed in the Public Right-of-Way whose bulk work is similar in detail to the Project's Scope of Work described in these Solicitation Documents. Demonstrate the experience requirement by:

Providing a detailed description of all projects similar in detail to the Project's Scope of Work described in these Solicitation Documents and in which the Bidder is currently engaged or has completed within the past ten years. List and describe the aforementioned projects and state whether the work was performed for the County, other government clients, or similar size private entities. The description should identify for each project (1) The client, (2) Description of work, (3) Total dollar value of the contract, (4) Contract duration, (5) Customer contact person and phone number for reference, (6) Statement or notation of whether Bidder is/was the prime contractor or subcontractor, and (7) The results of the project; provide letters of certification of final acceptance or similar project closure documentation and/or Contractor's evaluation/performance; or

Pursuant to Section 255.20, F.S., the County may consider a bid from a Bidder in good standing, meeting the license requirements above, 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 in the Flexible Paving and Drainage Work Class, Certification of Work Underway, and Status of Contract(s) On Hand.



**ESTIMATE OF NE 151 STREET FROM EAST OF RAILROAD TRACKS TO BAY VISTA BOULEVARD**

ITEM	DESCRIPTION	UNIT	TOTAL QTY	UNIT PRICE	TOTAL
101-1	MOBILIZATION (5%)	LS	1	\$ 344,413.41	\$ 344,413.41
102-1A	MAINTENANCE OF TRAFFIC (5%)	LS	1	\$ 344,413.41	\$ 344,413.41
104-10-1	BALED HAY	EA	35	\$ 109.00	\$ 3,815.00
104-13-1	STAKED SILT FENCE (TYPE III)	LF	9,114	\$ 1.97	\$ 17,954.58
104-18	INLET PROTECTION SYSTEM	EA	37	\$ 118.69	\$ 4,391.53
110-1-1	CLEARING & GRUBBING	AC	12.0	\$ 51,598.52	\$ 621,246.18
120-1	REGULAR EXCAVATION	CY	1,333.00	\$ 13.27	\$ 17,688.91
120-6	EMBANKMENT	CY	22,540.00	\$ 15.50	\$ 349,370.00
160-4	TYPE B' STABILIZATION (12") (MIN. C.B.R. OF 30)	S.Y.	45,912	\$ 4.31	\$ 197,880.72
210-1-10	LIMEROCK BASE (8") (PRIMED)	S.Y.	41,854	\$ 16.50	\$ 690,591.00
285-709	BASE OPTIONAL (GROUP 9)	S.Y.	520	\$ 13.28	\$ 6,905.60
327-70-01	MILLING EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)	S.Y.	769	\$ 4.80	\$ 3,691.20
327-70-12	MILLING EXISTING ASPHALT PAVEMENT (1-1/4" AVG. DEPTH)	S.Y.	4,897	\$ 2.50	\$ 12,242.50
334-1-13	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC C)	TN	72	\$ 106.93	\$ 7,699.96
334-2-13-2	HOT MIX ASPHALT, TRAFFIC LEVEL C, SP 12.5 (2)	TON	4,543	\$ 114.22	\$ 519,901.46
337-7-82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22	TON	2,679	\$ 134.58	\$ 360,539.82
400-0-11	CLASS NS CONCRETE (GRAVITY WALL)	CY	1,971.0	\$ 600.00	\$ 1,182,600.00
425-1-351	INLETS (CURB) TYPE P-5 (<10')	EA	9	\$ 6,293.59	\$ 56,642.31
425-1-352 OPT	INLETS (CURB) TYPE P-5 (>10')	EA	3	\$ 7,111.00	\$ 21,333.00
425-1-361	INLETS (CURB) TYPE P-6 (<10')	EA	13	\$ 4,700.14	\$ 61,101.82
425-1-362A	INLETS (CURB) TYPE P-6 (>10')	EA	2	\$ 8,411.11	\$ 16,822.22
425-1-451B	INLETS (CURB) TYPE J-5 (<10')	EA	1	\$ 8,789.75	\$ 8,789.75
425-1-452	INLETS (CURB) TYPE J-5 (>10')	EA	1	\$ 9,065.00	\$ 9,065.00
425-1-461	INLETS (CURB) TYPE J-6 (<10')	EA	1	\$ 7,832.30	\$ 7,832.30
425-1-910	INLET, CLOSED FLUME	EA	5	\$ 4,108.31	\$ 20,541.55
425-2-41	MANHOLE TYPE P-7T (ANY DIMENSION, MAXIMUM DEPTH 15')	EA	4	\$ 4,814.47	\$ 19,257.88
425-2-43	MANHOLE TYPE 7T (PARTIAL) (TOP ONLY)	EA	1	\$ 3,633.33	\$ 3,633.33
425-2-63	MANHOLE TYPE 8T (PARTIAL) (TOP ONLY)	EA	1	\$ 4,380.43	\$ 4,380.43
425-2-92A	MANHOLE TYPE J-8T (ANY DIMENSION, MAXIMUM DEPTH 15')	EA	8	\$ 10,821.99	\$ 86,576.92
425-1-908	SPECIAL STRUCTURE W/WEIR AND BAFFLE (>10')	EA	17	\$ 10,500.00	\$ 178,500.00
425-4(2)	INLETS, ADJUST	EA	3	\$ 1,883.33	\$ 5,649.99
425-6	ADJUST EXISTING VALVE BOXES (MIAMI-DADE COUNTY ONLY)	EA	16	\$ 487.41	\$ 7,798.56
425-73	ADJUST AND/OR RELOCATE EXISTING FIRE HYDRANTS (MIAMI-DADE COUNTY OWNED)	EA	10	\$ 3,500.00	\$ 35,000.00
430-171-115	15" PIPE CULVERT (STORM SEWER)	LF	25	\$ 49.33	\$ 1,233.25
430-171-118	18" PIPE CULVERT (STORM SEWER)	LF	1,026	\$ 65.67	\$ 67,377.42
430-171-124	24" PIPE CULVERT (STORM SEWER)	LF	485	\$ 79.67	\$ 38,639.95
430-171-136	36" PIPE CULVERT (STORM SEWER)	LF	631	\$ 198.81	\$ 125,449.11
430-171-142	42" PIPE CULVERT (STORM SEWER)	LF	1,131	\$ 259.00	\$ 292,929.00
430-171-148	48" PIPE CULVERT (STORM SEWER)	LF	1,326	\$ 274.02	\$ 363,350.52
430-54	54" PIPE CULVERT (STORM SEWER)	LF	402	\$ 333.00	\$ 133,866.00
430-171-218	14"x23" PIPE CULVERT, ELLIPTICAL (18" DIA. EQUI.)	LF	37	\$ 114.59	\$ 4,239.83
430-171-224	19"x30" PIPE CULVERT, ELLIPTICAL (24" DIA. EQUI.)	LF	195	\$ 115.51	\$ 22,524.45
430-171-236	29"x45" PIPE CULVERT, ELLIPTICAL (36" DIA. EQUI.)	LF	215	\$ 186.97	\$ 40,198.55
430-171-203	PIPE CULVERT OPTIONAL MATERIAL (CROSS DRAIN)(OTHER -ELIP/ARCH)(37" TO 48")	LF	82	\$ 251.70	\$ 20,639.40
425-82-01	TRENCH DRAIN (12")	LF	35	\$ 260.92	\$ 9,132.20
444-1A	RELOCATE CONTINUOUS DEFLECTIVE SEPARATION STRUCTURE (C.D.S.)	LS	1	\$ 10,000.00	\$ 10,000.00
444-70-11	DEEP WELL-OPEN HOLE - 24" WELL DIAMETER	LF	1,800	\$ 145.00	\$ 261,000.00
444-71-11	DEEP WELL CASING - 24" WELL DIAMETER	LF	1,380	\$ 200.00	\$ 276,000.00
515-1-2A	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	4,402	\$ 24.00	\$ 105,648.00
520-1-10	CONCRETE CURB AND GUTTER (TYPE "F") INCLUDES COST OF LIMEROCK	LF	13,786	\$ 15.96	\$ 220,024.56
520-2-4A	CONCRETE CURB, TYPE D	LF	241	\$ 31.45	\$ 7,579.45
520-3D	CONCRETE VALLEY GUTTER	LF	633	\$ 25.00	\$ 15,825.00
520-5-4	CONCRETE TRAFFIC SEPARATOR, TYPE IV, 4' WIDE	LF	157	\$ 61.54	\$ 9,661.78
522-1	CONCRETE SIDEWALK (4" THICK) (INCLUDING PEDESTRIAN RAMP)	SY	5,313	\$ 33.78	\$ 179,473.14
522-2(1)	CONCRETE SIDEWALK (6" THICK) (INCLUDES DRIVEWAYS)	SY	81	\$ 50.89	\$ 4,122.09
522-4E	BUS SHELTER PAD-CONCRETE	SY	41	\$ 87.17	\$ 3,573.97
523-1-3	PATTERNED PAVEMENT, VEHICULAR AREAS, GREEN BIKE LANE	SY	756	\$ 55.00	\$ 41,580.00
523-2	DETECTABLE WARNING ON WALKING SURFACE/CURB RAMP DETECTABLE WARNING SURFACE	SF	361	\$ 26.75	\$ 9,656.75
550-10-228	FENCING (TYPE B) (5.1' TO 6.0') (RESET EXISTING)	LF	204	\$ 12.86	\$ 2,623.44
550-60-225	FENCE GATE, TYPE B, DOUBLE, 20.1 - 24' OPENING	EA	1	\$ 2,992.96	\$ 2,992.96
550-60-400	FENCE GATE, RESET EXISTING GATE	EA	1	\$ 5,754.54	\$ 5,754.54
575-1-1A	SODDING (PENSACOLA BAHIA OR MATCH EXISTING) (INCLUDES WATERING AND MAINTENANCE)	SY	6,562	\$ 3.65	\$ 23,951.30
751-35-42	ARCHITECTURAL, BUS SHELTER, RELOCATE, 50-100 SF	EA	2	\$ 8,300.00	\$ 16,600.00
721-75-4	RELOCATE OR RESET BUS STOP BENCH (ANY TYPE, INCLUDES REATTACHING TO CONCRETE IF NECESSARY)	EA	1	\$ 500.00	\$ 500.00
526-1-1A	PAVERS, ARCHITECTURAL (ROADWAY)(BRICK)	SY	37	\$ 100.00	\$ 3,700.00
1050-51-204	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 4"	LS	1	\$ 15,000.00	\$ 15,000.00
1050-51-212	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 12"	LS	1	\$ 15,000.00	\$ 15,000.00
654-2-60	RECTANGULAR RAPID FLASHING BEACON, REMOVE COMPLETE SIGN ASSEMBLY	AS	3	\$ 1,950.00	\$ 5,850.00
700-1-11B	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	62	\$ 350.00	\$ 21,700.00
700-1-12C	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	2	\$ 536.67	\$ 1,073.34
700-1-13K	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	1	\$ 1,472.00	\$ 1,472.00
700-1-50	SINGLE POST SIGN, RELOCATE	AS	6	\$ 78.28	\$ 469.68
700-1-60	SINGLE POST SIGN, REMOVE	EA	56	\$ 38.80	\$ 2,172.80
700-2-50	MULTI- POST SIGN, GROUND MOUNT, RELOCATE	AS	1	\$ 588.75	\$ 588.75
700-3-102	SIGN PANEL, F&I GROUND MOUNT, 12-20 SF	EA	1	\$ 525.00	\$ 525.00
700-3-601	SINGLE PANEL REMOVE, UP TO 12 SF	EA	7	\$ 50.00	\$ 350.00
700-11-139	ELECTRONIC DISPLAY SIGN, F&I GROUND MOUNT, AC POWERED, SPEED FEEDBACK SIGN	AS	1	\$ 6,000.00	\$ 6,000.00
700-11-600	ELECTRONIC DISPLAY SIGN, REMOVE GROUND MOUNT	AS	1	\$ 600.00	\$ 600.00
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	910	\$ 3.56	\$ 3,239.60
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	2,004	\$ 1,048.44	\$ 2,100.55
710-11-102	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR INTERCHANGE AND URBAN ISLAND, 8"	GM	0,195	\$ 1,000.00	\$ 195.20
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	1,889	\$ 1.02	\$ 1,926.27
710-11-124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	189	\$ 1.18	\$ 223.02
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	689	\$ 1.53	\$ 1,054.02
710-11-131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	2,835	\$ 494.56	\$ 1,402.08
710-11-133	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 3-9 DOTTED DROP LINE, 12"	GM	0,015	\$ 983.63	\$ 14.75
710-11-141C	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXTENSION, 6"	LF	232	\$ 2.00	\$ 464.00
710-11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	14	\$ 49.14	\$ 687.96
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	41	\$ 32.37	\$ 1,327.17
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	1,934	\$ 1,078.65	\$ 2,086.43
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	312	\$ 0.76	\$ 237.12
710-11-241A	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, DOTTED/GUIDELINE, 6"	GM	0,195	\$ 559.80	\$ 108.88
710-11-290	PAINTED PAVEMENT MARKINGS (STANDARD) (YELLOW) (ISLAND NOSE)	SF	91	\$ 2.19	\$ 199.29
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	1,889	\$ 2.38	\$ 4,494.63
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONAL CHEVRONS	LF	189	\$ 2.83	\$ 534.87
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	689	\$ 4.51	\$ 3,107.39
711-11-151	THERMOPLASTIC, STD, WHITE, DOTTED GUIDELINE, 6"	LF	232	\$ 1.12	\$ 259.84
711-11-160	THERMOPLASTIC, STD., MESSAGE OR SYMBOL	EA	14	\$ 128.98	\$ 1,805.72
711-11-170	THERMOPLASTIC, STD, ARROWS (BIKE THRU)	EA	41	\$ 66.38	\$ 2,721.58
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRONS	LF	312	\$ 3.00	\$ 936.00
711-11-241A	THERMOPLASTIC, STANDARD, YELLOW, DOTTED/GUIDELINE, 6"	GM	0,195	\$ 2,475.77	\$ 481.54
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	1,661	\$ 15.27	\$ 25,363.47
711-14-160	THERMOPLASTIC, PREFORMED, MESSAGE (BIKE)	EA	25	\$ 267.05	\$ 6,676.25
711-14-170	THERMOPLASTIC, PREFORMED, ARROWS (BIKE THRU)	EA	25	\$ 154.17	\$ 3,854.25

SBE-CONST CONCRETE
\$ 491,496.74
4.971%

SBE-CONST LANDSCAPING
\$ 23,951.30
0.242%

711-16-101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	2,004	\$	3,666.18	\$	7,345.19
711-16-102	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM	0,195	\$	4,300.00	\$	839.36
711-16-131	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	2,835	\$	1,250.00	\$	3,543.75
711-16-133	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, 3-9 DOTTED DROP LINE, 12"	GM	0,015	\$	2,994.35	\$	44.92
711-16-201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM	1,934	\$	3,850.00	\$	7,445.90
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF	12,298	\$	21.08	\$	259,294.34
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	2,222	\$	22.12	\$	49,160.08
632-7-1C	SIGNAL CABLE, F&I	PI	3	\$	5,050.00	\$	15,150.00
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	1	\$	50.00	\$	50.00
635-2-11	PULL BOX, F & I, (13" X 24") COVER SIZE	EA	104	\$	853.42	\$	88,755.44
635-2-12	PULL BOX, F & I, (24" X 36") COVER SIZE (FIBER OPTIC)	EA	1	\$	1,647.79	\$	1,647.79
639-1-111	ELECTRIC POWER SERVICE, F&I, OH, METER FURNISHED BY POWER COMPANY	AS	4	\$	3,136.00	\$	12,544.00
639-1-610	ELECTRICAL POWER SERVICE, REMOVE OVERHEAD	AS	1	\$	709.33	\$	709.33
639-1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS	1	\$	701.00	\$	701.00
639-2-16	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	1,367	\$	10.00	\$	13,670.00
639-3-11M	ELECTRICAL SERVICE DISCONNECT, FURNISH AND INSTALL, POLE MOUNT	EA	2	\$	1,200.00	\$	2,400.00
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	6	\$	1,558.33	\$	9,349.98
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA	1	\$	701.34	\$	701.34
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL, F&I	EA	11	\$	1,200.00	\$	13,200.00
646-1-60	ALUMINUM SIGNAL POLE (PEDESTRIAN DETECTOR POST), REMOVE	EA	5	\$	120.00	\$	600.00
649-21-6	STEEL MAST ARM ASSEMBLY, (60' SINGLE) F & I	EA	1	\$	44,000.00	\$	44,000.00
649-21-15	STEEL MAST ARM ASSEMBLY, (70' SINGLE) F & I	EA	2	\$	54,000.00	\$	108,000.00
649-21-21	STEEL MAST ARM ASSEMBLY, (78' SINGLE) F & I	EA	2	\$	64,000.00	\$	128,000.00
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW	EA	4	\$	3,000.00	\$	12,000.00
650-1-14	VEHICULAR TRAFFIC SIGNAL, F & I, ALUMINUM, 3 SECTION, 1 WAY	AS	17	\$	951.83	\$	16,181.11
650-1-18	VEHICULAR TRAFFIC SIGNAL, F & I, ALUMINUM, 5 SECTION, 1 WAY	AS	5	\$	1,293.50	\$	6,467.50
650-1-60	TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	AS	1	\$	97.68	\$	97.68
650-1-4	TRAFFIC SIGNAL, RELOCATE (INCLUDES REMOVAL AND REINSTALLATION)	AS	3	\$	611.69	\$	1,835.07
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNTDOWN, 1 WAY	AS	12	\$	849.17	\$	10,190.04
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	2	\$	1,393.33	\$	2,786.66
660-1-109B	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	EA	9	\$	100.00	\$	900.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS	12	\$	1,000.00	\$	12,000.00
660-4-11	VEHICLE DETECTION SYSTEM - VIDEO, F & I CABINET EQUIPMENT	EA	1	\$	4,500.00	\$	4,500.00
660-4-12	VEHICLE DETECTION SYSTEM - VIDEO, F & I ABOVE GROUND EQUIPMENT	EA	7	\$	3,500.00	\$	24,500.00
665-1-11	PEDESTRIAN DETECTOR, F & I	EA	16	\$	274.33	\$	4,389.28
670-5-140	TRAFFIC CONTROLLER ASSEMBLY, F & I, MODEL 2070XL W/ M-660X CABINET	AS	3	\$	25,000.00	\$	75,000.00
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	2	\$	530.00	\$	1,060.00
684-6-11	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET ACCESS POINT	EA	1	\$	2,671.08	\$	2,671.08
690-100	SIGNAL EQUIPMENT MISCELLANEOUS, REMOVE	PI	2	\$	495.00	\$	990.00
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	2	\$	705.20	\$	1,410.40
700-3-204	SIGN PANEL, F & I OVERHEAD MOUNT, 31-50 SF	EA	2	\$	1,500.00	\$	3,000.00
700-3-501	SIGN PANEL, RELOCATE, UP TO 12 SF	EA	6	\$	140.00	\$	840.00
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	3	\$	3,100.00	\$	9,300.00
700-5-50	INTERNALLY ILLUMINATED SIGN, RELOCATE	EA	4	\$	1,520.00	\$	6,080.00
700-12-31	SIGN BEACON, F&I OVERHEAD MOUNT, ONE BEACON	AS	1	\$	7,462.26	\$	7,462.26
620-1-1	GROUNDING ELECTRODE	LF	740	\$	50.00	\$	37,000.00
715-1-12	CONDUCTORS (INSULATED) (NO. 8 OR 6)	LF	36,966	\$	1.93	\$	71,344.38
715-1-13	CONDUCTORS (INSULATED) (NO. 4 OR 2)	LF	1,116	\$	4.87	\$	5,434.92
715-4-111A	LIGHTING POLE COMPLETE (40'-ALUM)	EA	27	\$	5,830.00	\$	157,410.00
715-4-11A	LIGHTING POLE COMPLETE (30'-ALUM)	EA	2	\$	9,867.00	\$	19,734.00
715-7-11G	LOAD CENTER (F&I) (SECONDARY VOLTAGE)	EA	1	\$	10,000.00	\$	10,000.00
715-4-400	LIGHT POLE COMPLETE (RELOCATE)	LF	1	\$	2,262.00	\$	2,262.00
715-4-70	LIGHT POLE COMPLETE (REMOVE)	EA	23	\$	900.00	\$	20,700.00
715-69	MAINTENANCE OF EXISTING LIGHTING OR TEMPORARY LIGHTING SYSTEM	LS	1	\$	10,000.00	\$	10,000.00

SBE-CONST PAVEMENT MARKING & SIGNAGE	
\$	113,072.57
1.144%	

SUBTOTAL	\$	8,988,097.24
CONTINGENCY (10%)	\$	898,809.72
SUBTOTAL CONSTRUCTION	\$	9,886,906.97
PERMIT ALLOWANCE	\$	10,000.00
TRAFFIC CONTROL OFFICER	\$	73,000.00
Total Construction Cost	\$	9,969,906.97
CEI (10%)	\$	1,186,428.84
TOTAL	\$	11,156,335.80

Total SBD Goal	
6.36%	Const