

MANATEE COUNTY GOVERNMENT
INTENT TO AWARD

IFB NO. / TITLE	21-R076431BB / Traffic Signal and Intelligent Transportation Systems Maintenance	DATE POSTED	MC _____	CC _____ BS _____
PROCUREMENT REPRESENTATIVE	Brooke Baker, CPPB, Procurement Team Leader	PROJECTED AWARD DATE	June 8, 2021	
DEPARTMENT / DIVISION	Public Works Department	AUTHORIZED BY	Jacob Erickson, MBA, CPPO, NIGP-CPP, Procurement Official	

NOTICE OF INTENT TO AWARD

The Manatee County Procurement Division provides notice of its intent to award a contract to the following firms for the provision of traffic signal and intelligent transportation systems maintenance: 1) B&E Signal and Lighting, Inc.; 2) Siemens Mobility, Inc.; and 3) Traffic Control Devices, Inc.

ENABLING / REGULATING AUTHORITY

Manatee County Procurement Ordinance, Section 2-26.

BACKGROUND / EVALUATION

At the request of the Public Works Department, the Procurement Division solicited IFB No. 21-R076431BB for the provision of traffic signal and intelligent transportation systems maintenance on an as-needed basis.

The solicitation was advertised on March 22, 2021 on the Manatee County website and Periscope S2G. It was also provided to the Manatee County Chamber of Commerce, Manasota Black Chamber of Commerce, Gulf Coast Builders Exchange, and Gulf Coast Latin Chamber of Commerce for release to their members.

Responses were received from the following firms: 1) B&E Signal and Lighting, Inc.; 2) Siemens Mobility, Inc.; and 3) Traffic Control Devices, Inc.

EVALUATION SUMMARY:

B&E Signal and Lighting, Inc.; Siemens Mobility, Inc.; and Traffic Control Devices, Inc. are the lowest, responsible, responsive bidders.

RECOMMENDATION:

The Procurement Division and the Public Works Department recommend award to the following firms: 1) B&E Signal and Lighting, Inc.; 2) Siemens Mobility, Inc.; and 3) Traffic Control Devices, Inc.

ATTACHMENTS	Bid Tabulation	NAME / NUMBER OF FUNDING SOURCE	Various Accounts
ESTIMATED ANNUAL COST	\$500,000.00	FUNDS VERIFIED	Yes

BID TABULATION
 IFB NO. 21-R076431BB
 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.			
							UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	
CONDUIT																
1	F/I	FURNISH/INSTALL	CONDUIT BY TRENCHING	630-2-11	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$4.00	500	\$2,000.00	\$6.90	500	\$3,450.00	\$9.65	500	\$4,825.00
2	F/I	FURNISH/INSTALL	CONDUIT BY TRENCHING	630-2-11		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF TRENCH.	LF	\$5.00	500	\$2,500.00	\$7.08	500	\$3,540.00	\$17.50	500	\$8,750.00
3	F/I	FURNISH/INSTALL	CONDUIT BY HAND DIGGING	630-2-11		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$5.00	500	\$2,500.00	\$10.30	500	\$5,150.00	\$15.50	500	\$7,750.00
4	F/I	FURNISH/INSTALL	CONDUIT BY HAND DIGGING	630-2-11		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF TRENCH.	LF	\$8.00	500	\$4,000.00	\$10.48	500	\$5,240.00	\$25.00	500	\$12,500.00
5	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING - FOR FIBER OPTIC CABLE	630-2-12	18202 AND 18204	1 1/4" HDPE CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$12.00	1,000	\$12,000.00	\$18.48	1,000	\$18,480.00	\$19.50	1,000	\$19,500.00
6	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING	630-2-12	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$13.00	1,000	\$13,000.00	\$19.15	1,000	\$19,150.00	\$20.50	1,000	\$20,500.00
7	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING	630-2-12		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF BORE.	LF	\$17.00	1,000	\$17,000.00	\$20.05	1,000	\$20,050.00	\$35.50	1,000	\$35,500.00
8	F/I	FURNISH/INSTALL	CONDUIT - JACK AND BORE	630-2-13		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$8.00	100	\$800.00	\$45.00	100	\$4,500.00	\$44.00	100	\$4,400.00
9	F/I	FURNISH/INSTALL	CONDUIT - ABOVEGROUND OR STRUCTURE MOUNTED	630-2-14	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$5.00	100	\$500.00	\$21.02	100	\$2,102.00	\$24.50	100	\$2,450.00
10	F/I	FURNISH/INSTALL	CONDUIT - ABOVEGROUND	630-2-14		1-2" RIGID CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$8.00	100	\$800.00	\$21.02	100	\$2,102.00	\$24.50	100	\$2,450.00
11	F/I	FURNISH/INSTALL	CONDUIT - BRIDGE MOUNT	630-2-15		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$9.00	100	\$900.00	\$20.88	100	\$2,088.00	\$62.50	100	\$6,250.00
SIGNAL CABLE																
12	F/I	FURNISH/INSTALL	SIGNAL CABLE - INSTALL NEW OR REPLACE EXISTING	632-7-1	NEC & NESC MANATEE COUNTY DESIGN GUIDE	FURNISH AND INSTALL TRAFFIC SIGNAL CABLING FROM CONTROLLER CABINET TO ALL TRAFFIC SIGNAL INDICATIONS, ILLUMINATED SIGNS, AND BLANK OUT SIGNS. SEPARATE PAY ITEMS SHALL APPLY TO DETECTION HOME RUNS. REMOVAL OF EXISTING CABLE SHALL BE CONSIDERED INCIDENTAL, ANY CABLE REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS.	PI	\$10,275.00	3	\$30,825.00	\$6,112.54	3	\$18,337.62	\$8,666.00	3	\$25,998.00
13	F/I	FURNISH/INSTALL	SIGNAL CABLE - REPAIR, REPLACE, OTHER	632-7-2		REPAIR OR REPLACE TRAFFIC SIGNAL CABLING. INCLUDES 'BELDEN' 50-2 TYPE INDUCTIVE LOOP ASSEMBLY LEAD IN CABLE. REMOVAL OF EXISTING CABLE SHALL BE CONSIDERED INCIDENTAL, ANY CABLE REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS.	LF	\$3.75	300	\$1,125.00	\$5.24	300	\$1,572.00	\$6.55	300	\$1,965.00
SPAN WIRE ASSEMBLIES																
14	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - PERPENDICULAR	634-4-151	17727	PERPENDICULAR - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$2,750.00	1	\$2,750.00	\$2,610.17	1	\$2,610.17	\$4,696.00	1	\$4,696.00
15	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - DIAGONAL	634-4-152		DIAGONAL - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$1,750.00	1	\$1,750.00	\$2,872.14	1	\$2,872.14	\$3,390.00	1	\$3,390.00
16	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - BOX	634-4-153		BOX SPAN - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$3,275.00	1	\$3,275.00	\$5,789.83	1	\$5,789.83	\$8,140.00	1	\$8,140.00
17	M/E	REMOVE	SPAN WIRE ASSEMBLY - REMOVE	634-4-600		SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A635. INCLUDES ADJUSTMENT AND/OR REPLACEMENT OF HARDWARE AS NEEDED. ADJUSTING AND RE-SECURING SIGNAL CABLE END TO END.	PI	\$1,500.00	1	\$1,500.00	\$340.23	1	\$340.23	\$933.00	1	\$933.00
18	M/E	REPAIR	SPAN WIRE - RE-TENTION	634-4-700		SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A635. INCLUDES ADJUSTMENT AND/OR REPLACEMENT OF HARDWARE AS NEEDED. ADJUSTING AND RE-SECURING SIGNAL CABLE END TO END.	EA	\$1,275.00	3	\$3,825.00	\$170.12	3	\$510.36	\$1,235.00	3	\$3,705.00
PULL AND SPLICE BOX																
19	F/I	FURNISH/INSTALL	PULL BOX AND LID - QUAZITE - 17" X 30" (LARGE SIZE)	635-2-12		REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL, CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$525.00	5	\$2,625.00	\$1,068.69	5	\$5,343.45	\$1,180.00	5	\$5,900.00

BID TABULATION
 IFB NO. 21-R076431BB
 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

LINE ITEM NO.	ACTIVITY		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.		
	F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING							UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
20	F/I	FURNISH/INSTALL	PULL BOX AND LID - QUAZITE - 30" X 60"	635-2-13	17721	REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$1,875.00	2	\$3,750.00	\$2,041.74	2	\$4,083.48	\$3,262.00	2	\$6,524.00
21	I/O	INSTALL	PULL BOX AND LID - QUAZITE - 17" X 30"	635-2-30		REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS. COUNTY PROVIDED MATERIALS.	EA	\$375.00	5	\$1,875.00	\$510.35	5	\$2,551.75	\$786.00	5	\$3,930.00
22	M/E	REMOVE/INSTALL	PULL BOX AND LID - RELOCATE	635-2-40		ADJUST OR RELOCATE. REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. ANY DISTURBED CONCRETE OR DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH THE SURROUNDING AREAS.	EA	\$575.00	5	\$2,875.00	\$340.23	5	\$1,701.15	\$1,061.00	5	\$5,305.00
POWER SERVICE																
23	F/I	FURNISH/INSTALL	ELECTRIC POWER SERVICE ASSEMBLY - OVERHEAD	639-1-112		FOR INSTALLATION OF A COMPLETE POWER SERVICE ASSEMBLY TO INCLUDE POLE, METER CAN HOUSING, DISCONNECT, CONDUIT, WIRING AND ALL HARDWARE. POWER SERVICE SHALL BE INSTALLED PER FDOT AND MANATEE COUNTY DESIGN STANDARDS. POWER SERVICE SHALL INCLUDE VERTICAL CONDUIT AND WIRE ANY HORIZONTAL CONDUIT AND WIRE SHALL BE UNDER A SEPARATE LINE ITEM. ADDITIONAL INFO SECTION A639 MSTCSD.	EA	\$2,550.00	2	\$5,100.00	\$1,869.95	2	\$3,739.90	\$2,939.00	2	\$5,878.00
24	F/I	FURNISH/INSTALL	ELECTRIC POWER SERVICE ASSEMBLY - UNDERGROUND	639-1-122	17736 & FDOT BOE SECTION 620	FOR INSTALLATION OF A COMPLETE POWER SERVICE ASSEMBLY TO INCLUDE POLE, METER CAN HOUSING, DISCONNECT, CONDUIT, WIRING AND ALL HARDWARE. POWER SERVICE SHALL BE INSTALLED PER FDOT AND MANATEE COUNTY DESIGN STANDARDS. HORIZONTAL CONDUIT AND WIRE SHALL BE UNDER A SEPARATE LINE ITEM. ADDITIONAL INFO SECTION A639 MSTCSD.	EA	\$1,275.00	2	\$2,550.00	\$2,315.35	2	\$4,630.70	\$2,438.00	2	\$4,876.00
25	M/E	REMOVE	ELECTRIC POWER SERVICE ASSEMBLY - REMOVE	639-1-600		FOR REMOVAL OF POWER SERVICE ASSEMBLY TO INCLUDE POLE, METER CAN HOUSING, DISCONNECT, CONDUIT, WIRING AND ALL HARDWARE. ADDITIONAL INFO SECTION A639 MSTCSD - FOR EMERGENCY REPAIR OR SPECIAL PROJECT REBUILDS. MAY BE USED FOR EMERGENCY REPAIRS OF DAMAGED SERVICE ASSEMBLIES.	EA	\$750.00	2	\$1,500.00	\$713.22	2	\$1,426.44	\$559.00	2	\$1,118.00
26	M/E	REMOVE/INSTALL	ELECTRICAL POWER SERVICE - UTILITY SERVICE RISER - RELOCATE	639-1-410	17504	FOR RELOCATION OF EXISTING ELECTRICAL POWER SERVICE CONDUIT RISER AND SERVICE CONDUCTORS. DISCONNECT AND REMOVE EXISTING SERVICE RISER ASSEMBLY FROM OLD UTILITY COMPANY POWER POLE AND REINSTALL ON NEW UTILITY COMPANY INSTALLED POLE. INCLUDES UNDERGROUND OR OVERHEAD CONDUIT AND CABLE ADJUSTMENT. MINOR HARDWARE - NUTS BOLTS BRACKETS TO BE SUPPLIED BY CONTRACTOR.	EA	\$690.00	5	\$3,450.00	\$1,360.93	5	\$6,804.65	\$1,005.00	5	\$5,025.00
27	F/I	FURNISH/INSTALL	ELECTRICAL POWER SERVICE - UTILITY SERVICE RISER - RELOCATE	639-1-420		FOR RELOCATION OF EXISTING ELECTRICAL POWER SERVICE CONDUIT RISER AND SERVICE CONDUCTORS. DISCONNECT AND REMOVE EXISTING SERVICE RISER ASSEMBLY FROM OLD UTILITY COMPANY POWER POLE AND REINSTALL ON NEW UTILITY COMPANY INSTALLED POLE. INCLUDES UNDERGROUND OR OVERHEAD CONDUIT AND CABLE ADJUSTMENT. MINOR HARDWARE - NUTS BOLTS BRACKETS TO BE SUPPLIED BY CONTRACTOR.	EA	\$895.00	5	\$4,475.00	\$2,652.74	5	\$13,263.70	\$593.00	5	\$2,965.00
28	M/E	MODIFY EXISTING	ELECTRICAL SERVICE WIRE - RELOCATE	639-2-4	NEC & NESC	RELOCATE EXISTING ELECTRICAL SERVICE CONDUCTORS. REMOVAL SHALL BE CONSIDERED INCIDENTAL. ANY UNUSED CONDUCTOR REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS. ADDITIONAL INFO ON WIRE SECTION A639 MSTCSD.	LF	\$1.00	500	\$500.00	\$1.34	500	\$670.00	\$2.10	500	\$1,050.00
29	F/I	FURNISH/INSTALL	ELECTRICAL SERVICE WIRE - FURNISH AND INSTALL	639-2-1		NO. 6 AWG STRANDED COPPER - REMOVAL OF EXISTING CONDUCTOR SHALL BE CONSIDERED INCIDENTAL. ANY CONDUCTOR REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS. ADDITIONAL INFO ON WIRE SECTION A639 MSTCSD.	LF	\$1.85	5000	\$9,250.00	\$5.62	5000	\$28,100.00	\$3.60	5000	\$18,000.00
EMERGENCY PORTABLE GENERATOR HOUSING																
30	I/O	INSTALL	EMERGENCY GENERATOR - HOUSING ONLY	639-4-6	MANATEE COUNTY DESIGN GUIDE	EQUIPMENT PROVIDED BY COUNTY. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED.	EA	\$2,675.00	2	\$5,350.00	\$510.35	2	\$1,020.70	\$813.00	2	\$1,626.00
PRESTRESSED CONCRETE POLE																
31	F/I	FURNISH/INSTALL	PRESTRESSED CONCRETE POLE	641-2-12		(TYPE P-II SERVICE POLE) MAY BE USED FOR TRAFFIC MONITORING ASSEMBLIES.	EA	\$1,275.00	1	\$1,275.00	\$1,387.47	1	\$1,387.47	\$1,403.00	1	\$1,403.00
32	M/E	REMOVE	PRESTRESSED CONCRETE POLE	641-2-70	17764	SHALLOW REMOVAL - POLES 30' AND GREATER.	EA	\$4,750.00	1	\$4,750.00	\$2,764.32	1	\$2,764.32	\$2,352.00	1	\$2,352.00
33	M/E	REMOVE	PRESTRESSED CONCRETE POLE	641-2-80		COMPLETE/DEEP REMOVAL - POLES 30' AND GREATER.	EA	\$10,750.00	1	\$10,750.00	\$4,271.19	1	\$4,271.19	\$3,288.00	1	\$3,288.00
34	I/O	INSTALL	PRESTRESSED CONCRETE POLE	641-2-30		(VARIOUS SIZES) INSTALL ONLY.	EA	\$7,550.00	1	\$7,550.00	\$3,037.29	1	\$3,037.29	\$14,408.00	1	\$14,408.00

BID TABULATION
 IFB NO. 21-R076431BB
 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

							B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.			
LINE ITEM NO.	F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	ACTIVITY	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
STRAIN POLE - WOOD																
35	F/I	FURNISH/INSTALL	STRAIN POLE - WOOD POLE NOMINAL SIZE 40"	643-140	17727	DIRECT BURY METHOD - GUYING CONSIDERED INCIDENTAL.	EA	\$1,675.00	2	\$3,350.00	\$2,428.88	2	\$4,857.76	\$3,310.00	2	\$6,620.00
36	F/I	FURNISH/INSTALL	STRAIN POLE - WOOD POLE NOMINAL SIZE 50"	643-150		DIRECT BURY METHOD - GUYING CONSIDERED INCIDENTAL.	EA	\$1,965.00	2	\$3,930.00	\$3,060.07	2	\$6,120.14	\$3,669.00	2	\$7,338.00
37	M/E	REMOVE	STRAIN POLE WOOD - REMOVE	643-600		REMOVE OF WOOD STRAIN POLE.	EA	\$675.00	2	\$1,350.00	\$1,708.48	2	\$3,416.96	\$890.00	2	\$1,780.00
ALUMINUM SIGNAL POLE																
38	F/I	FURNISH/INSTALL	ALUMINUM SIGNAL POLE - PEDESTAL	646-1-11	17764/17784	ALUMINUM SIGNAL POLE - PEDESTAL - FURNISH AND INSTALL POLE TO INCLUDE TRANSFORMER BASE AND HARDWARE, CONCRETE FOUNDATION, CONDUIT, GROUND ROD, AND LOCKING COLLAR. FOR REPLACEMENT OF A COMPLETE PEDESTRIAN SIGNAL ASSEMBLY.	AS	\$1,278.00	10	\$12,780.00	\$1,186.44	10	\$11,864.40	\$1,759.00	10	\$17,590.00
39	F/I	FURNISH/INSTALL	ALUMINUM SIGNAL POLE - PEDESTRIAN DETECTOR POST	646-1-12		ALUMINUM SIGNAL POLE - PEDESTRIAN DETECTOR POST-FURNISH AND INSTALL POST TO INCLUDE CONCRETE FOUNDATION, CONDUIT, GROUND ROD.	AS	\$875.00	10	\$8,750.00	\$879.53	10	\$8,795.30	\$1,655.00	10	\$16,550.00
STEEL MAST ARM ASSEMBLY																
40	M/E	REMOVE	STEEL MAST ARM ASSEMBLY - REMOVE	649-36-100	17743	FOR STEEL STRAIN POLES AND MAST ARM ASSEMBLIES UP TO CLASS VIII +/- 50'. REMOVE AND TRANSPORT WITHIN COUNTY. CONTRACTOR TO PROVIDE APPROPRIATELY SIZED CRANE AND TRUCK. RETURN ALL EQUIPMENT REMOVED TO MANATEE COUNTY TRAFFIC OPERATIONS. MAY BE USED TO SUPPORT RAPID RESPONSE FOR EMERGENCY REMOVALS DUE TO INCIDENTS, ACCIDENTS, ETC.	EA	\$6,750.00	1	\$6,750.00	\$996.61	1	\$996.61	\$1,465.00	1	\$1,465.00
41	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - GROUT PAD	649-38-000	17745	REMOVE/ REPLACE EXISTING GROUT PAD. PER MAST ARM STRUCTURE.	EA	\$285.00	10	\$2,850.00	\$364.20	10	\$3,642.00	\$1,096.00	10	\$10,960.00
42	F/I	FURNISH/INSTALL	MAST ARM REPAIR - MAINTENANCE - WIRE MESH SCREEN	649-38-000	17745 AND Section 649-6	INSTALL/ REPLACE CRITTER SCREEN AT OPENINGS ON MOMENT CONNECTION PLATE.	EA	\$235.00	10	\$2,350.00	\$230.04	10	\$2,300.40	\$304.00	10	\$3,040.00
43	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - SPOT PAINT <100 SQ INCHES	649-38-000	17745	REMOVE AND TREAT RUST SPOTS, SPOT PAINT. PER TREATMENT AREA.	EA	\$985.00	10	\$9,850.00	\$400.15	10	\$4,001.50	\$565.00	10	\$5,650.00
44	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - SPOT PAINT >100 SQ INCHES	649-38-000		REMOVE AND TREAT RUST SPOTS, SPOT PAINT. PER TREATMENT AREA. NOT TO EXCEED 300 SQ. INCHES PER TREATMENT AREA.	EA	\$2,955.00	10	\$29,550.00	\$1,090.26	10	\$10,902.60	\$1,309.00	10	\$13,090.00
45	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - NUTS, HAND HOLE COVERS, TOE COVERS	649-38-000		TIGHTEN MAST ARM MOMENT CONNECTION NUTS, REPLACE MISSING NUTS, SECURE, INSTALL OR REPLACE MISSING HAND HOLE AND TOE COVERS. PER MAST ARM STRUCTURE. PER ASSEMBLY.	EA	\$975.00	20	\$19,500.00	\$200.08	20	\$4,001.60	\$1,054.00	20	\$21,080.00
VEHICULAR TRAFFIC SIGNAL																
46	M/E	RELOCATE	VEHICULAR TRAFFIC SIGNAL - RELOCATE - 1, 3, 4 OR 5-SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-70	N/A	RELOCATE SIGNAL HEAD. ADJUSTMENT OF HARDWARE SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD & MUTCD 4D.15.	EA	\$750.00	2	\$1,500.00	\$151.56	2	\$303.12	\$937.00	2	\$1,874.00
47	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 1 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-11	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$525.00	4	\$2,100.00	\$629.70	4	\$2,518.80	\$753.00	4	\$3,012.00
48	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 3 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-14	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$721.00	80	\$57,680.00	\$922.08	80	\$73,766.40	\$1,118.00	80	\$89,440.00
49	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 4 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-16	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$985.00	4	\$3,940.00	\$1,133.57	4	\$4,534.28	\$1,325.00	4	\$5,300.00
50	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 5 SECTION CLUSTER W/REFLECTIVE BORDER BACKPLATE	650-1-19	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$1,275.00	20	\$25,500.00	\$1,427.78	20	\$28,555.60	\$1,724.00	20	\$34,480.00
VEHICULAR SIGNAL AUXILIARIES																
51	F/I	FURNISH/INSTALL	VEHICULAR SIGNAL AUXILIARIES - 12" LED MODULE - RE-LAMP	650-2-106	N/A	FOR RE-LAMPING INTERSECTIONS. REMOVAL OF EXISTING MODULE CONSIDERED INCIDENTAL.	EA	\$325.00	200	\$65,000.00	\$102.88	200	\$20,576.00	\$254.00	200	\$50,800.00
52	F/I	FURNISH/INSTALL	VEHICULAR SIGNAL AUXILIARIES - BACKPLATE W/ REFLECTIVE BORDER	650-1-19	N/A	FOR REPLACEMENT OF EXISTING OR MISSING BACKPLATES. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	EA	\$185.00	25	\$4,625.00	\$204.90	25	\$5,122.50	\$422.00	25	\$10,550.00
PEDESTRIAN SIGNAL																

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 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

							B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.			
LINE ITEM NO.	F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	ACTIVITY	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
53	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - RE-LAMP	653-1-11	N/A	FOR REPLACEMENT OF PEDESTRIAN LED COUNTDOWN MODULE ONLY. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653.	EA	\$215.00	80	\$17,200.00	\$240.85	80	\$19,268.00	\$320.00	80	\$25,600.00
54	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - (1 WAY)	653-1-11	17764	FOR INSTALLATION OF PEDESTRIAN SIGNAL TO INCLUDE, COUNTDOWN LED INSERT, HOUSING, AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	AS	\$448.00	40	\$17,920.00	\$633.05	40	\$25,322.00	\$855.00	40	\$34,200.00
55	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - (2 WAY)	653-1-12	17764	FOR INSTALLATION OF PEDESTRIAN SIGNAL TO INCLUDE, COUNTDOWN LED INSERT, HOUSING, AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	AS	\$955.00	20	\$19,100.00	\$1,138.98	20	\$22,779.60	\$1,531.00	20	\$30,620.00
RECTANGULAR RAPID FLASHING BEACON																
56	F/I	FURNISH/INSTALL	RECTANGULAR RAPID FLASHING BEACON	654-2-21	TEM	FOR INSTALLATION OF COMPLETE ASSEMBLY - 1 WAY.	AS	\$6,275.00	2	\$12,550.00	\$6,500.00	2	\$13,000.00	\$6,480.00	2	\$12,960.00
57	F/I	FURNISH/INSTALL	RECTANGULAR RAPID FLASHING BEACON	654-2-22	TEM	FOR INSTALLATION OF COMPLETE ASSEMBLY - 2 WAY.	AS	\$6,975.00	2	\$13,950.00	\$6,500.00	2	\$13,000.00	\$8,092.00	2	\$16,184.00
MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES																
58	M/E	REPAIR	MAST ARM, SPAN WIRE, POLE MOUNTING ASSEMBLY REPAIR/REPLACE	659-1-11	N/A	INCLUDES REPLACEMENT OF DAMAGED TRAFFIC SIGNAL AND SIGN MOUNTING HARDWARE AND ADJUSTABLE HANGER ASSEMBLIES.	AS	\$1,765.00	1	\$1,765.00	\$349.88	1	\$349.88	\$860.00	1	\$860.00
59	M/E	REPAIR	MAST ARM, SPAN WIRE, POLE MOUNTING ASSEMBLY REPAIR/REPLACE	659-1-12	N/A	INCLUDES REPLACEMENT OF DAMAGED TRAFFIC SIGNAL AND SIGN MOUNTING HARDWARE AND ADJUSTABLE HANGER ASSEMBLIES.	AS	\$1,765.00	2	\$3,530.00	\$549.98	2	\$1,099.96	\$617.00	2	\$1,234.00
LOOP ASSEMBLY																
60	F/I	INSTALL/REPAIR	LOOP TYPE B 6' X 6'	660-2-102	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$575.00	10	\$5,750.00	\$738.08	10	\$7,380.80	\$790.00	10	\$7,900.00
61	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 20'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$675.00	10	\$6,750.00	\$854.24	10	\$8,542.40	\$877.00	10	\$8,770.00
62	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 30'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$825.00	10	\$8,250.00	\$949.15	10	\$9,491.50	\$935.00	10	\$9,350.00
63	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 40'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,150.00	10	\$11,500.00	\$1,044.07	10	\$10,440.70	\$993.00	10	\$9,930.00
64	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 20'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$875.00	10	\$8,750.00	\$854.24	10	\$8,542.40	\$838.00	10	\$8,380.00
65	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 30'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$975.00	10	\$9,750.00	\$949.15	10	\$9,491.50	\$896.00	10	\$8,960.00
66	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 40'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,275.00	10	\$12,750.00	\$1,044.07	10	\$10,440.70	\$954.00	10	\$9,540.00
67	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 50'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,475.00	5	\$7,375.00	\$1,138.98	5	\$5,694.90	\$1,012.00	5	\$5,060.00
VEHICLE DETECTION SYSTEM - MICROWAVE																
68	I/O	INSTALL	VEHICLE DETECTION SYSTEM - MICROWAVE	660-3-10	REFER TO MANATEE COUNTY DESIGN GUIDE	FOR COMPLETE SYSTEM INSTALLATION. ALL MAJOR MATERIALS PROVIDED BY COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	PI	\$5,010.00	2	\$10,020.00	\$1,360.93	2	\$2,721.86	\$3,568.00	2	\$7,136.00
69	F/I	INSTALL/REPAIR	VEHICLE DETECTION SYSTEM - MICROWAVE - ABOVE GROUND EQUIPMENT	660-3-12	REFER TO MANATEE COUNTY DESIGN GUIDE	FOR INSTALLATION OR REPLACEMENT OF ABOVE GROUND SYSTEM SENSORS. ALL MATERIALS AND SYSTEM SPECIFICATIONS MUST BE APPROVED BY THE COUNTY PRIOR TO PURCHASE.	EA	\$6,102.00	5	\$30,510.00	\$6,730.44	5	\$33,652.20	\$706.00	5	\$3,530.00
VEHICLE DETECTION SYSTEM - VIDEO																
70	F/O	REPAIR	VIDEO DETECTION SYSTEM - MAINTENANCE - PER INTERSECTION	660-4-80	REFER TO	CLEAN ALL LENSES, AND TIGHTEN CABLING AND CONNECTIONS, TERMINAL BOX, HOUSING AND MOUNTING BRACKETS, STRAIGHTEN CAMERA AND MOUNTING ASSEMBLY, AND READJUST DETECTION ZONES.	PI	\$2,350.00	20	\$47,000.00	\$680.47	20	\$13,609.40	\$845.00	20	\$16,900.00

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LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.		
							UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
71	I/O	INSTALL	VIDEO DETECTION SYSTEM (INSTALL) - CABINET EQUIPMENT (PER LOCATION)	660-4-31	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$2,310.00	2	\$4,620.00	\$340.23	2	\$680.46	\$745.00	2	\$1,490.00
72	I/O	INSTALL	VIDEO CAMERA (INSTALL) - ABOVE GROUND EQUIPMENT (PER CAMERA)	660-4-32	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$2,350.00	2	\$4,700.00	\$680.47	2	\$1,360.94	\$1,167.00	2	\$2,334.00
VEHICLE DETECTION SYSTEM - WIRELESS															
73	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - CABINET EQUIPMENT - (PER INTERSECTION)	660-5-31	REFER TO MANATEE COUNTY DESIGN GUIDE	PI	\$2,310.00	2	\$4,620.00	\$340.23	2	\$680.46	\$745.00	2	\$1,490.00
74	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - ABOVE GROUND EQUIPMENT (PER SENSOR)	660-5-32	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$2,350.00	10	\$23,500.00	\$170.12	10	\$1,701.20	\$1,167.00	10	\$11,670.00
75	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - IN ROAD ELECTRONICS (PER SENSOR)	660-5-33	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$275.00	10	\$2,750.00	\$127.59	10	\$1,275.90	\$474.00	10	\$4,740.00
PEDESTRIAN DETECTOR															
76	I/O	INSTALL	PEDESTRIAN DETECTOR	665-1-30	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$75.00	20	\$1,500.00	\$127.59	20	\$2,551.80	\$176.00	20	\$3,520.00
77	I/O	INSTALL/REPLACE	PEDESTRIAN DETECTOR - STANDARD PUSHBUTTON	665-1-90	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$95.00	20	\$1,900.00	\$127.59	20	\$2,551.80	\$176.00	20	\$3,520.00
78	I/O	INSTALL/REPLACE	PEDESTRIAN DETECTOR - ACCESSIBLE (AUDIBLE) PUSHBUTTON	665-1-90	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$115.00	5	\$575.00	\$127.59	5	\$637.95	\$375.00	5	\$1,875.00
TRAFFIC CONTROLLER ASSEMBLY															
79	I/O	INSTALL	TRAFFIC CONTROLLER ASSEMBLY - CONTROLLER WITH CABINET	670-5-300	17841	AS	\$5,610.00	2	\$11,220.00	\$2,372.88	2	\$4,745.76	\$2,144.00	2	\$4,288.00
80	M/E	RELOCATE	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION	670-5-500	17841	EA	\$3,765.00	2	\$7,530.00	\$2,180.53	2	\$4,361.06	\$2,039.00	2	\$4,078.00
81	M/E	REMOVE	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION - REMOVE	670-5-600	17841	EA	\$750.00	2	\$1,500.00	\$768.64	2	\$1,537.28	\$1,149.00	2	\$2,298.00
82	I/O	INSTALL	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION - INSTALL	670-5-100	17841	EA	\$2,750.00	2	\$5,500.00	\$1,500.06	2	\$3,000.12	\$1,485.00	2	\$2,970.00
ITS CABINET															
83	I/O	INSTALL	ITS CABINET - CCTV	676-2-300	18108	EA	\$2,305.00	2	\$4,610.00	\$370.19	2	\$740.38	\$2,924.00	2	\$5,848.00
SYSTEM CONTROL EQUIPMENT															
84	I/O	INSTALL	ADAPTIVE SIGNAL CONTROL SYSTEM - INSTALL	680-1-300	N/A	PI	\$375.00	1	\$375.00	\$1,360.93	1	\$1,360.93	\$2,332.00	1	\$2,332.00
CCTV CAMERA															
85	I/O	INSTALL	CCTV CAMERA	682-1-33	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$1,945.00	2	\$3,890.00	\$680.47	2	\$1,360.94	\$1,085.00	2	\$2,170.00
FIBER OPTIC CABLE															

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							B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.			
LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT REF/	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
86	I/O	INSTALL	FIBER OPTIC CABLE - INSTALL ONLY - BRIDGE MOUNT	633-1-310	18202-18204	INSTALL FIBER OPTIC CABLE, BRIDGE MOUNT, VARIOUS SIZES. ALL MATERIALS PROVIDED BY MANATEE COUNTY.	LF	\$1.00	1,000	\$1,000.00	\$5.00	1,000	\$5,000.00	\$2.60	1,000	\$2,600.00
87	I/O	INSTALL	FIBER OPTIC CABLE - INSTALL ONLY - UNDERGROUND	633-1-320	18202-18204	INSTALL FIBER OPTIC CABLE, UNDERGROUND, VARIOUS SIZES. ALL PROVIDED BY MANATEE COUNTY.	LF	\$1.00	5,000	\$5,000.00	\$3.50	5,000	\$17,500.00	\$1.90	5,000	\$9,500.00
FIBER OPTIC CONNECTION																
88	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION - SPLICE	633-2-31	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$47.00	288	\$13,536.00	\$41.76	288	\$12,026.88	\$58.00	288	\$16,704.00
89	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION - TERMINATION	633-2-31	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER TERMINATION, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$45.00	16	\$720.00	\$78.83	16	\$1,261.28	\$69.50	16	\$1,112.00
FIBER OPTIC CONNECTION - HARDWARE																
90	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - SPLICE ENCLOSURE	633-3-11	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$475.00	1	\$475.00	\$696.11	1	\$696.11	\$1,044.00	1	\$1,044.00
91	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - SPLICE TRAY	633-3-12	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$75.00	1	\$75.00	\$57.90	1	\$57.90	\$69.50	1	\$69.50
92	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - PRE-TERMINATED CONNECTOR ASSEMBLY	633-3-13	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$375.00	1	\$375.00	\$50.30	1	\$50.30	\$58.00	1	\$58.00
93	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - BUFFER TUBE FAN OUT KIT	633-3-14	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$475.00	1	\$475.00	\$200.21	1	\$200.21	\$69.50	1	\$69.50
94	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - PATCH PANEL - PRE TERMINATED	633-3-15	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$275.00	1	\$275.00	\$1,233.89	1	\$1,233.89	\$928.00	1	\$928.00
95	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - PATCH PANEL - FIELD TERMINATED	633-3-16	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$425.00	1	\$425.00	\$1,456.94	1	\$1,456.94	\$812.00	1	\$812.00
96	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - CONNECTOR PANEL	633-3-17	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$425.00	1	\$425.00	\$141.42	1	\$141.42	\$116.00	1	\$116.00
UNINTERRUPTIBLE POWER SUPPLY																
97	F/I	FURNISH/INSTALL	UNINTERRUPTIBLE POWER SUPPLY	685-1-13	REFER TO MANATEE COUNTY DESIGN GUIDE	FURNISH AND INSTALL A COMPLETE UPS ASSEMBLY TO INCLUDE, UPS, CABINET AND BATTERIES. ALL MATERIALS SHALL BE APPROVED BY THE COUNTY BEFORE PURCHASE AND INSTALLATION.	EA	\$6,586.00	2	\$13,172.00	\$7,061.68	2	\$14,123.36	\$8,972.00	2	\$17,944.00
98	I/O	INSTALL/REPAIR	UNINTERRUPTIBLE POWER SUPPLY - BATTERY	685-1-231	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL/REPLACE BATTERY. MAJOR MATERIAL PROVIDED BY THE COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR. PAY ITEM INCLUDES REMOVAL AND DISPOSAL OF EXISTING BATTERY THROUGH COUNTY BATTERY SUPPLIER.	EA	\$1,385.00	20	\$27,700.00	\$85.06	20	\$1,701.20	\$596.00	20	\$11,920.00
SINGLE POST SIGN																
99	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	700-1-11	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$575.00	1	\$575.00	\$379.66	1	\$379.66	\$463.00	1	\$463.00
100	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	700-1-12	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$1,375.00	1	\$1,375.00	\$1,095.52	1	\$1,095.52	\$1,869.00	1	\$1,869.00
101	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	700-1-13	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$3,275.00	1	\$3,275.00	\$1,545.70	1	\$1,545.70	\$2,529.00	1	\$2,529.00
102	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 31+ SF	700-1-14	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$4,750.00	1	\$4,750.00	\$2,088.14	1	\$2,088.14	\$3,537.00	1	\$3,537.00
103	M/E	REPAIR	SINGLE POST SIGN, F&I GROUND MOUNT - REPAIR	700-1-80	FDOT BOE	FOR REPAIR OF GROUND MOUNT TRAFFIC SIGNS, INCLUDES POLE (U-CHANNEL AND BASE) REPLACEMENT AS NEEDED.	AS	\$375.00	1	\$375.00	\$260.00	1	\$260.00	\$463.00	1	\$463.00
INTERNALLY ILLUMINATED SIGN																
104	I/O	INSTALL	INTERNALLY-ILLUMINATED SIGN - INSTALL ONLY	700-5-40	17748	FOR INSTALLATION OF INTERNALLY ILLUMINATED SIGN, INSTALLATION OF POWER CABLE CONSIDERED INCIDENTAL. COUNTY TO PROVIDE ALL SIGNS. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE, CABLING AND MISCELLANEOUS CONNECTORS HARDWARE TO COMPLETE THE INSTALLATION. ADDITIONAL INFO SECTION A699.	EA	\$1,022.00	1	\$1,022.00	\$510.35	1	\$510.35	\$1,054.00	1	\$1,054.00
105	M/E	REMOVE	INTERNALLY-ILLUMINATED SIGN - REMOVAL	700-5-60	17748	REMOVAL OF SIGN ASSEMBLY. MAY BE USED FOR UPGRADES OR REPLACEMENTS.	EA	\$750.00	1	\$750.00	\$170.12	1	\$170.12	\$156.00	1	\$156.00
106	M/E	MODIFY	INTERNALLY-ILLUMINATED SIGN - LED RETROFIT	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	REMOVAL OF FLUORESCENT LAMP AND BALLAST AND REPLACE WITH FDOT APPROVED LED RETROFIT KIT. CONTRACTOR TO DISPOSE OF LAMPS, BALLASTS, OR UNUSABLE MATERIALS PROPERLY. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$2,165.00	1	\$2,165.00	\$554.78	1	\$554.78	\$1,678.00	1	\$1,678.00
107	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REPAIR - LED	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	DIAGNOSE AND REPAIR LED SIGN, REPLACE LED DRIVER. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,375.00	20	\$27,500.00	\$409.80	20	\$8,196.00	\$1,678.00	20	\$33,560.00
108	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REPAIR - FLUORESCENT	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	DIAGNOSE AND REPAIR FLUORESCENT SIGN, REPLACE LAMP AND BALLAST. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,275.00	5	\$6,375.00	\$351.05	5	\$1,755.25	\$1,150.00	5	\$5,750.00
109	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REFACE	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	REPLACE EXISTING SIGN FACE. REPLACEMENT SHALL BE EXACT FIT, USE EXISTING DESIGN, AND FDOT AND MUTCD COMPLIANT MATERIALS. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,475.00	20	\$29,500.00	\$575.20	20	\$11,504.00	\$1,150.00	20	\$23,000.00

BID TABULATION
 IFB NO. 21-R076431BB
 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.		
								UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
110	M/E	REMOVE/INSTALL	INTERNALLY-ILLUMINATED SIGN - RELOCATE SIGN	700-5-50		INCLUDES RELOCATING AND RECONNECTING ALL WIRING AND HARDWARE. CONTRACTOR TO PROVIDE ANY ADDITIONAL MATERIALS NECESSARY TO COMPLETE THE INSTALLATION. SPLICES IN CONDUCTORS MAY BE PERMITTED ONLY AT HAND HOLE ACCESS POINTS. ALL CABLING SHALL BE PROPERLY DRESSED AND TAGGED.	EA	\$975.00	1	\$975.00	\$1,020.70	1	\$1,020.70	\$1,210.00	1	\$1,210.00
FLASHING BEACONS																
111	I/O	INSTALL	SIGN BEACON - INSTALL ONLY	700-12-41	11862	COUNTY TO PROVIDE MATERIALS. CONTRACTOR TO REMOVE AND DISPOSE OF DEBRIS, RESTORE LANDSCAPE TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$1,375.00	1	\$1,375.00	\$680.47	1	\$680.47	\$880.00	1	\$880.00
SERVICES																
112	F/O	FURNISH	LABOR	None	N/A	COST PER TECHNICIAN PER HOUR.	HR	\$65.00	1	\$65.00	\$85.06	1	\$85.06	\$123.00	1	\$123.00
113	F/O	FURNISH	MATERIAL	None	N/A	FOR ADDITIONAL MATERIALS, MARKUP NOT TO EXCEED 10%.	EA	\$1.00	1	\$1.00	\$1.10	1	\$1.10	\$10.00	1	\$10.00
114	F/O	FURNISH	MOBILIZATION	101- Maint	FDOT BOE	THIS ITEM IS PAID PER LOCATION FOR SHORT DURATION WORK LASTING LESS THAN 2 DAYS. THIS ITEM IS USED FOR MOBILIZATION AND MOT COSTS ASSOCIATED WITH TROUBLE CALLS AND EMERGENCY RESPONSE. NO ADDITIONAL MOT PAY ITEMS MAY BE USED WITH THIS ITEM.	EA	\$750.00	1	\$750.00	\$340.23	1	\$340.23	\$871.00	1	\$871.00
115	F/O	FURNISH	MAINTENANCE OF TRAFFIC (MOT)	102-1- MOT	FDOT BOE	FOR PROJECTS LASTING TWO (2) OR MORE DAYS AT THE SAME PROJECT LOCATION, PROVIDE MAINTENANCE OF TRAFFIC BILLED PER DAY. COSTS FOR TEMPORARY MOT LASTING LESS THAN TWO (2) DAYS TO BE INCLUDED IN MOBILIZATION COSTS (SEE 101-MAINT).	DAY	\$875.00	1	\$875.00	\$487.73	1	\$487.73	\$3,483.00	1	\$3,483.00
116	F/O	FURNISH	HEAVY EQUIPMENT	M-1-A	N/A	PROVIDE HOURLY USE OF SPECIALTY HEAVY EQUIPMENT. THIS PAY ITEM IS NOT TO BE USED IN COMBINATION WITH FURNISH AND INSTALL PAY ITEMS ABOVE.	HR	\$110.00	1	\$110.00	\$224.00	1	\$224.00	\$384.00	1	\$384.00
117	F/O	FURNISH	PROFESSIONAL/TECHNICAL SERVICES	M-2-A	N/A	PROVIDE HOURLY PROFESSIONAL AND TECHNICAL SERVICES. THIS PAY ITEM IS NOT TO BE USED IN COMBINATION WITH FURNISH AND INSTALL PAY ITEMS ABOVE.	HR	\$65.00	1	\$65.00	\$350.00	1	\$350.00	\$406.00	1	\$406.00
GRAND TOTAL:								\$181,137.60	MULTIPLIER	\$898,771.00	\$125,842.50	MULTIPLIER	\$729,029.59	\$172,309.90	MULTIPLIER	\$974,009.00