

Estimate Estimator

Estimated Cost:\$1,439,195.31

Contingency: 5.00%

Estimated Total: \$1,511,155.08

MIA-C.R. 25A-3.54

Stage 3

Inflation = 5.0%

Midpoint of Construction: 7/1/2021

Base Date: 02/19/20

Spec Year: 19

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SPRING

County: MIAMI

Latitude of Midpoint: 395842

Longitude of Midpoint: 841200

District: 07

Federal/State Project Number: E161(416)

Prepared by Carpenter Marty Transportation on 02/21/20

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0100: ROADWAY

0005	201E11000 CLEARING AND GRUBBING	1.000	LS	\$5,000.00000	\$5,000.00
0006	202E23000 PAVEMENT REMOVED	5,595.000	SY	\$7.36956	\$41,232.69
0007	202E30000 WALK REMOVED	60.000	SF	\$8.48407	\$509.04
0008	202E32000 CURB REMOVED	207.000	FT	\$5.41686	\$1,121.29
0009	202E32500 CURB AND GUTTER REMOVED	2,782.000	FT	\$5.86268	\$16,309.98
0010	202E35100 PIPE REMOVED, 24" AND UNDER	739.000	FT	\$18.51035	\$13,679.15
0011	202E58000 MANHOLE REMOVED	15.000	EACH	\$535.12158	\$8,026.82
0012	202E58100 CATCH BASIN REMOVED	8.000	EACH	\$398.31326	\$3,186.51
0013	202E98100 REMOVAL MISC.: LANDSCAPE ROCK	4.000	EACH	\$500.00000	\$2,000.00
0014	203E10000 EXCAVATION	3,525.000	CY	\$11.91839	\$42,012.32
0015	203E20000 EMBANKMENT	733.000	CY	\$17.90665	\$13,125.57
0016	204E10000 SUBGRADE COMPACTION	5,624.000	SY	\$1.26805	\$7,131.51
0017	204E13000 EXCAVATION OF SUBGRADE	2,224.000	CY	\$16.19243	\$36,011.96
0018	204E30010 GRANULAR MATERIAL, TYPE B	2,224.000	CY	\$46.96220	\$104,443.93
0019	204E45000 PROOF ROLLING	3.000	HOUR	\$168.55819	\$505.67
0020	608E12000 5" CONCRETE WALK	850.000	SF	\$11.69150	\$9,937.78
0021	608E52000 CURB RAMP	404.000	SF	\$18.80350	\$7,596.61

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0022	690E50350	1.000	EACH	\$286.07179	\$286.07
SPECIAL - MAILBOX REMOVED AND RESET					

Total for Group 0100:\$312,116.90

Group 0200: EROSION CONTROL

0023	616E10000	50.000	MGAL	\$6.75534	\$337.77
WATER					

0024	659E00300	536.000	CY	\$38.01225	\$20,374.57
TOPSOIL					

0025	659E10000	4,827.000	SY	\$1.43494	\$6,926.46
SEEDING AND MULCHING					

0026	659E14000	241.000	SY	\$0.83365	\$200.91
REPAIR SEEDING AND MULCHING					

0027	659E20000	0.650	TON	\$729.74068	\$474.33
COMMERCIAL FERTILIZER					

0028	659E31000	1.000	ACRE	\$117.02815	\$117.03
LIME					

0029	659E35000	26.100	MGAL	\$4.47071	\$116.69
WATER					

0030	832E30000	38,626.000	EACH	\$1.00000	\$38,626.00
EROSION CONTROL					

Total for Group 0200:\$67,173.76

Group 0300: DRAINAGE

0031	602E20000	6.000	CY	\$1,511.52757	\$9,069.17
CONCRETE MASONRY					

0032	605E14000	5,918.000	FT	\$8.90525	\$52,701.27
6" BASE PIPE UNDERDRAINS					

0033	611E00510	200.000	FT	\$19.19364	\$3,838.73
6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS					

0034	611E04400	162.000	FT	\$93.80169	\$15,195.87
12" CONDUIT, TYPE B					

0035	611E04600	96.000	FT	\$60.96256	\$5,852.41
12" CONDUIT, TYPE C					

0036	611E05900	21.000	FT	\$107.39126	\$2,255.22
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<u>Description</u>					
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	15" CONDUIT, TYPE B				
0037	611E07400	80.000	FT	\$90.65724	\$7,252.58
	18" CONDUIT, TYPE B				
0038	611E10400	395.000	FT	\$129.78880	\$51,266.58
	24" CONDUIT, TYPE B				
0039	611E57600	13.000	FT	\$500.00000	\$6,500.00
	49" X 33" CONDUIT, TYPE A				
0040	611E98151	3.000	EACH	\$4,000.00000	\$12,000.00
	CATCH BASIN, NO. 3, AS PER PLAN				
0041	611E98181	6.000	EACH	\$2,500.00000	\$15,000.00
	CATCH BASIN, NO. 3A, AS PER PLAN				
0042	611E98630	1.000	EACH	\$811.50216	\$811.50
	CATCH BASIN ADJUSTED TO GRADE				
0043	611E99574	1.000	EACH	\$3,304.37524	\$3,304.38
	MANHOLE, NO. 3				
0044	611E99580	1.000	EACH	\$7,500.00000	\$7,500.00
	MANHOLE, NO. 3 WITH 84" BASE I.D. AND 6" WEIR				
0045	611E99710	2.000	EACH	\$267.44652	\$534.89
	PRECAST REINFORCED CONCRETE OUTLET				
0046	895E10010	1.000	EACH	\$17,605.76923	\$17,605.77
	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 1				

Total for Group 0300:\$210,688.37

Group 0400: PAVEMENT

0047	301E46000	1,406.000	CY	\$138.35839	\$194,531.90
	ASPHALT CONCRETE BASE, PG64-22				
0048	304E20000	1,092.000	CY	\$51.52569	\$56,266.05
	AGGREGATE BASE				
0049	407E10000	310.000	GAL	\$2.15136	\$666.92
	TACK COAT				
0050	441E50100	235.000	CY	\$219.72378	\$51,635.09
	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M				
0051	441E50300	274.000	CY	\$156.70273	\$42,936.55
	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)				
0052	452E10010	234.000	SY	\$73.34730	\$17,163.27

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<u>Description</u>					
<u>Supplemental Description</u>					
6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P					
0053	609E12000	57.000	FT	\$28.61529	\$1,631.07
COMBINATION CURB AND GUTTER, TYPE 2					
0054	609E12001	2,682.000	FT	\$25.00000	\$67,050.00
COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN					
0055	609E26000	79.000	FT	\$30.70942	\$2,426.04
CURB, TYPE 6					

Total for Group 0400:\$434,306.89

Group 0500: WATER WORK

0056	638E10500	1.000	EACH	\$1,998.52085	\$1,998.52
FIRE HYDRANT REMOVED AND RESET					
0057	638E10800	1.000	EACH	\$306.00499	\$306.00
VALVE BOX ADJUSTED TO GRADE					

Total for Group 0500:\$2,304.52

Group 1100: TRAFFIC CONTROL

0058	630E03100	454.000	FT	\$7.53060	\$3,418.89
GROUND MOUNTED SUPPORT, NO. 3 POST					
0059	630E06500	75.000	FT	\$17.32950	\$1,299.71
GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9					
0060	630E09000	4.000	EACH	\$336.23512	\$1,344.94
BREAKAWAY STRUCTURAL BEAM CONNECTION					
0061	630E79000	8.000	EACH	\$202.91263	\$1,623.30
SIGN HANGER ASSEMBLY, SPAN WIRE					
0062	630E79500	8.000	EACH	\$115.94925	\$927.59
SIGN SUPPORT ASSEMBLY, POLE MOUNTED					
0063	630E80100	181.000	SF	\$18.11014	\$3,277.94
SIGN, FLAT SHEET					
0064	630E80200	72.000	SF	\$22.24512	\$1,601.65
SIGN, GROUND MOUNTED EXTRUSHEET					
0065	630E84500	4.000	EACH	\$787.74858	\$3,150.99
GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION					
0066	630E84900	25.000	EACH	\$14.09203	\$352.30
REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL					

Estimate: Estimator

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0067	630E85400	2.000	EACH	\$125.78758	\$251.58
REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL					
0068	630E86002	18.000	EACH	\$19.06232	\$343.12
REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL					
0069	630E86102	4.000	EACH	\$168.48819	\$673.95
REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL					
0070	644E00100	1.000	MILE	\$2,235.14366	\$2,235.14
EDGE LINE, 4"					
0071	644E00200	2.000	MILE	\$1,065.44647	\$2,130.89
LANE LINE, 4"					
0072	644E00300	1.000	MILE	\$4,368.27619	\$4,368.28
CENTER LINE					
0073	644E00400	908.000	FT	\$1.23465	\$1,121.06
CHANNELIZING LINE, 8"					
0074	644E00500	248.000	FT	\$5.59604	\$1,387.82
STOP LINE					
0075	644E00600	151.000	FT	\$3.15277	\$476.07
CROSSWALK LINE					
0076	644E00700	144.000	FT	\$4.87027	\$701.32
TRANSVERSE/DIAGONAL LINE					
0077	644E01300	24.000	EACH	\$75.70669	\$1,816.96
LANE ARROW					
0078	644E30030	3.000	MILE	\$3,850.64580	\$11,551.94
REMOVAL OF PAVEMENT MARKING					
0079	646E10100	1.000	MILE	\$1,738.38742	\$1,738.39
LANE LINE, 4"					
0080	646E10200	1.000	MILE	\$9,583.54064	\$9,583.54
CENTER LINE					
0081	646E10300	343.000	FT	\$1.87707	\$643.84
CHANNELIZING LINE, 8"					
0082	646E20300	6.000	EACH	\$210.58709	\$1,263.52
LANE ARROW					

Total for Group 1100:\$57,284.73

Group 1200: TRAFFIC SIGNALS

Estimate: Estimator

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0083	625E25400 CONDUIT, 2", 725.04	36.000	FT	\$14.75903	\$531.33
0084	625E25500 CONDUIT, 3", 725.04	76.000	FT	\$17.73853	\$1,348.13
0085	625E29000 TRENCH	83.000	FT	\$10.00000	\$830.00
0086	625E30706 PULL BOX, 725.08, 24"	2.000	EACH	\$947.69009	\$1,895.38
0087	625E32000 GROUND ROD	12.000	EACH	\$202.29612	\$2,427.55
0088	625E36000 PLASTIC CAUTION TAPE	83.000	FT	\$0.37702	\$31.29
0089	632E05007 VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, PO LYCARBONATE, AS PER PLAN , BLACK	13.000	EACH	\$820.00000	\$10,660.00
0090	632E05087 VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, PO LYCARBONATE, AS PER PLAN , BLACK	3.000	EACH	\$1,200.00000	\$3,600.00
0091	632E20731 PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	2.000	EACH	\$550.00000	\$1,100.00
0092	632E25000 COVERING OF VEHICULAR SIGNAL HEAD	16.000	EACH	\$27.76562	\$444.25
0093	632E25010 COVERING OF PEDESTRIAN SIGNAL HEAD	2.000	EACH	\$32.64251	\$65.29
0094	632E26001 PEDESTRIAN PUSHBUTTON, AS PER PLAN	2.000	EACH	\$320.00000	\$640.00
0095	632E30200 MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	868.000	FT	\$7.37442	\$6,401.00
0096	632E30600 TETHER WIRE, WITH ACCESSORIES	868.000	FT	\$9.44325	\$8,196.74
0097	632E40500 SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	489.000	FT	\$1.71198	\$837.16
0098	632E40700 SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	1,468.000	FT	\$2.19978	\$3,229.28
0099	632E64000 STRAIN POLE FOUNDATION	8.000	EACH	\$3,420.54868	\$27,364.39
0100	632E65200 LOOP DETECTOR LEAD-IN CABLE	497.000	FT	\$1.36485	\$678.33

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0101	632E68200	174.000	FT	\$2.60622	\$453.48
POWER CABLE, 2 CONDUCTOR, NO. 6 AWG					
0102	632E69800	56.000	FT	\$3.82036	\$213.94
SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG					
0103	632E70001	2.000	EACH	\$2,500.00000	\$5,000.00
POWER SERVICE, AS PER PLAN					
0104	632E83000	4.000	EACH	\$5,250.00000	\$21,000.00
STRAIN POLE, TYPE TC-81.10, DESIGN 10					
0105	632E83301	4.000	EACH	\$12,000.00000	\$48,000.00
STRAIN POLE, TYPE TC-81.10, DESIGN 13, AS PER PLAN					
0106	632E90101	2.000	EACH	\$3,000.00000	\$6,000.00
REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN					
0107	633E01551	2.000	EACH	\$17,500.00000	\$35,000.00
CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS2, AS PER PLAN					
0108	633E67100	2.000	EACH	\$2,843.79891	\$5,687.60
CABINET FOUNDATION					
0109	633E67201	2.000	EACH	\$500.00000	\$1,000.00
CONTROLLER WORK PAD, AS PER PLAN					
0110	633E75001	2.000	EACH	\$5,000.00000	\$10,000.00
UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN					
0111	809E69000	4.000	EACH	\$6,636.64480	\$26,546.58
ADVANCE RADAR DETECTION					
0112	809E69100	3.000	EACH	\$6,321.93518	\$18,965.81
STOP LINE RADAR DETECTION					
0113	815E30000	1.000	EACH	\$2,587.80488	\$2,587.80
SPREAD SPECTRUM RADIO					

Total for Group 1200:\$250,735.33

Group 2100: MAINTENANCE OF TRAFFIC

0114	410E12000	20.000	CY	\$55.23315	\$1,104.66
TRAFFIC COMPACTED SURFACE, TYPE A OR B					
0115	410E13000	20.000	CY	\$44.75160	\$895.03
TRAFFIC COMPACTED SURFACE, TYPE C					
0116	614E11110	80.000	HOUR	\$71.27699	\$5,702.16
LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0117	614E13000	20.000	CY	\$173.26508	\$3,465.30
ASPHALT CONCRETE FOR MAINTAINING TRAFFIC					
0118	614E21000	0.820	MILE	\$1,716.07760	\$1,407.18
WORK ZONE CENTER LINE, CLASS I					
0119	614E22000	1.020	MILE	\$1,249.59508	\$1,274.59
WORK ZONE EDGE LINE, CLASS I, 4"					
0120	614E23000	492.000	FT	\$0.76912	\$378.41
WORK ZONE CHANNELIZING LINE, CLASS I, 8"					
0121	614E24000	1,053.000	FT	\$0.54895	\$578.04
WORK ZONE DOTTED LINE, CLASS I					
0122	614E26000	103.000	FT	\$3.07185	\$316.40
WORK ZONE STOP LINE, CLASS I					
0123	614E30000	6.000	EACH	\$49.78255	\$298.70
WORK ZONE ARROW, CLASS I					

Total for Group 2100:\$15,420.47

Group 2300: INCIDENTALS

0124	614E11000	1.000	LS	\$25,000.00000	\$25,000.00
MAINTAINING TRAFFIC					
0125	619E16010	6.000	MNTH	\$1,652.47986	\$9,914.88
FIELD OFFICE, TYPE B					
0126	623E10000	1.000	LS	\$14,249.45850	\$14,249.46
CONSTRUCTION LAYOUT STAKES AND SURVEYING					
0127	624E10000	1.000	LS	\$40,000.00000	\$40,000.00
MOBILIZATION					

Total for Group 2300:\$89,164.34