

## CR 19A Roundabout Engineers Cost Estimate Project Cost Summary

<b>Project Components</b>	<b>Cost</b>
Roadway	\$2,142,343.22
Signing and Marking	\$176,689.03
Lighting	\$329,048.46
Landscaping	\$241,806.50
<b>Subtotal</b>	<b>\$2,889,887.22</b>
Mobilization (101-1)	\$317,887.59
Maintenance of Traffic (102-1)	\$288,988.72
<b>Total Cost</b>	<b>\$3,496,763.53</b>

**CR 19A Roundabout Engineers Cost Estimate**

**Roadway**

<b>Pay Item</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Total Cost</b>
102-3	Commercial Material for Temporary Driveway Maintenance	CY	345	\$46.45	\$16,024.91
102-14	Traffic Control Officer	HR	40	\$69.29	\$2,771.60
102-60	Work Zone Sign	ED	16380	\$0.39	\$6,388.20
102-61	Business Sign	EA	29	\$74.76	\$2,168.13
102-71-11	Temporary Barrier, Furnish & Install, Concrete	LF	779.827	\$20.63	\$16,088.61
102-74-1	Channelizing Device, (Types I,II,DI,VP,Drum,Vehicular Logitudinal Channelization Device)	ED	43740	\$0.18	\$7,960.68
102-74-2	Channelizing Device, (Type III-6')	ED	1260	\$0.38	\$475.02
102-76	Arrow Board / Advance Warning Arrow Panel	ED	1350	\$7.37	\$9,950.85
102-78	Temporary Retroreflective Pavement Marker	EA	877	\$4.68	\$4,104.36
102-89-1	Temporary Crash Cushion - Redirective	LO	7	\$1,450.92	\$10,156.42
102-99	Portable Changeable Message Sign - Temporary	ED	2520	\$18.25	\$45,995.04
102-104	Temporary Signalization and Maintenance of Intersection	ED	360	\$139.44	\$50,198.40
104-10-3	Sediment Barrier	LF	3081	\$1.94	\$5,967.90
104-18	Inlet Protection System	EA	22	\$142.23	\$3,129.13
107-1	Litter Removal and Disposal	AC	6.61	\$36.41	\$240.69
107-2	Mowing	AC	0.79	\$52.75	\$41.68
110-1-1	Clearing and Grubbing	AC	4.10	\$39,519.21	\$162,028.76
110-4-10	Removal of Existing Concrete	SY	393	\$21.57	\$8,475.83
120-1	Regular Excavation	CY	2918.0	\$6.34	\$18,511.79
120-6	Embankment	CY	4917.7	\$11.09	\$54,532.38
160-4	Type B Stabilization	SY	9221	\$5.75	\$52,983.87
285-709	Optional Base, Base Group 9	SY	5890	\$22.43	\$132,083.25
286-1	Turnout Construction (Driveway Excavation and Optional Base Group 1 included)	SY	1032	\$24.93	\$25,721.29
327-70-6	Milling Existing Asphalt Pavement (1.5" Depth)	SY	602	\$4.77	\$2,869.85
334-1-53	Superpave Asphaltic Concrete (Traffic C) (PG76-72) (2.5" )(Includes turnout asphalt)	TN	1153.2	\$119.52	\$137,832.77
337-7-83	Asphaltic Concrete Friction Course (Traffic C) (FC-12.5) (1.5" )(PG76-72)	TN	744.8	\$134.73	\$100,352.44
350-4-13	Reinforced Cement Concrete Pavement, 12" (Crosswalks)	SY	164	\$190.90	\$31,307.60
400-0-11	Concrete Class NS, Gravity Wall	CY	106	\$711.92	\$75,463.41
400-1-2	Concrete Class I, Endwalls	CY	17.31	\$1,409.45	\$24,397.53
415-1-1	Reinforcing Steel - Roadway	LB	1072	\$1.12	\$1,198.50
425-1-351	Inlets, Curb, Type P-5, <10'	EA	9	\$5,462.17	\$49,159.54
425-1-361	Inlets, Curb, Type P-6, <10'	EA	6	\$6,626.36	\$39,758.16
425-1-521	Inlets, DT Bot, Type C, <10'	EA	1	\$4,426.38	\$4,426.38
425-1-531	Inlets, DT Bot, Type C, Modified-Back of Sidewalk,<10'	EA	1	\$4,418.43	\$4,418.43
425-1-541	Inlets, DT Bot, Type D, <10'	EA	3	\$4,854.97	\$14,564.90
425-1-581	Inlets, DT Bot, Type H, <10'	EA	2	\$8,546.58	\$17,093.15
425-1-910	Inlets, Closed Flume	EA	1	\$5,832.80	\$5,832.80
425-2-91	Manholes, J-8, <10'	EA	2	\$9,996.35	\$19,992.70
425-2-92	Manholes, J-8, >10'	EA	2	\$12,946.95	\$25,893.89
430-175-118	Pipe Culvert RCP, Round, 18", Storm and Cross Drain	LF	1076	\$92.52	\$99,552.60
430-175-124	Pipe Culvert RCP, Round, 24", Storm and Cross Drain	LF	848	\$111.15	\$94,255.20
430-175-130	Pipe Culvert RCP, Round, 30", Storm and Cross Drain	LF	123	\$126.43	\$15,550.28
430-175-136	Pipe Culvert RCP, Round, 36", Storm and Cross Drain	LF	166	\$197.38	\$32,764.91
430-185-136	Pipe Culvert, RCP, Round, Jack & Bore, 36", Storm and Cross Drain	LF	100	\$1,420.00	\$142,000.00
515-1-1	Pipe Handrail - Guiderail, Steel	LF	973	\$106.12	\$103,253.79
520-1-7	Concrete Curb and Gutter (Type E)	LF	2635	\$24.30	\$64,023.81
520-1-10	Concrete Curb and Gutter (Type F)	LF	3676	\$25.82	\$94,906.97
520-2-2	Concrete Curb (Type B)	LF	251	\$56.52	\$14,187.52
520-2-8	Concrete Curb (Type RA)	LF	324	\$47.02	\$15,215.06
520-3	Valley Gutter - Concrete	LF	210	\$39.85	\$8,367.45
522-1	Concrete Sidewalk and Driveways, 4" Thick	SY	2890	\$49.43	\$142,828.29
522-2	Concrete Sidewalk and Driveways, 6" Thick	SY	412	\$67.25	\$27,710.62
523-1	Patterned Pavement, (Vehicular Areas)	SY	164	\$213.12	\$34,952.01
526-1-1	Architectural Pavers, Roadway	SY	319	\$78.72	\$25,110.09
527-2	Detectable Warnings	SF	128	\$33.51	\$4,289.79
530-1	Riprap, Sand-Cement	CY	13.6	\$840.68	\$11,433.30
570-1-2	Performance Turf	SY	3414.0	\$3.64	\$12,426.96
710-11-101	Painted Pavement Markings, Standard, White, Solid, 6"	GM	2.261	\$1,233.78	\$2,789.57
710-11-123	Painted Pavement Markings, Standard, White, Solid for Crosswalk and Roundabout, 12"	LF	930	\$0.86	\$797.94
710-11-124	Painted Pavement Markings, Standard, White, Solid for Diagonal or Chevron, 18"	LF	135	\$1.42	\$191.30
710-11-125	Painted Pavement Markings, Standard, White, Solid for Stop Line or Crosswalk, 24"	LF	234	\$1.85	\$431.96
710-11-141	Painted Pavement Markings, Standard, White, 2-4 Dotted Guideline, 6"	GM	0.361	\$727.84	\$262.75
710-11-170	Painted Pavement Markings, Standard, White, Arrows	EA	19	\$32.70	\$621.21
710-11-201	Painted Pavement Markings, Standard, Yellow, Solid, 6"	GM	2.409	\$1,292.06	\$3,112.57
710-11-224	Painted Pavement Markings, Standard, Yellow, Solid for Diagonal or Chevron, 18"	LF	319	\$2.02	\$642.79
710-11-241	Painted Pavement Markings, Standard, Yellow, 6-10 Dotted Extension, 6"	GM	0.129	\$803.75	\$103.68

**\$2,142,343.22**

**CR 19A Roundabout Engineers Cost Estimate**

**Signing and Pavement Marking**

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
654-2-22	RECTANGULAR RAPID FLASHING BEACON (F&I) (SOLAR) (COMPLETE ASSEM. BACK TO BACK)	AS	8	\$ 10,409.46	\$ 83,275.71
700-1-11	SINGLE POST SIGN (F&I) (UP TO 12 SF)	AS	48	\$ 395.37	\$ 18,977.71
700-1-12	SINGLE POST SIGN (F&I) (12 TO 20 SF)	AS	5	\$ 1,121.32	\$ 5,606.58
700-1-13	SINGLE POST SIGN (F&I) (21 TO 30 SF)	AS	4	\$ 1,602.90	\$ 6,411.60
700-1-50	SINGLE POST SIGN (RELOCATE)	AS	3	\$ 340.42	\$ 1,021.25
700-1-60	SINGLE POST SIGN (REMOVE)	AS	34	\$ 49.26	\$ 1,674.74
710-90	PAINTED PAVEMENT MARKINGS (FINAL SURFACE)	LS	1	\$ 44,653.83	\$ 44,653.83
711-11-123	THERMOPLASTIC (WHITE) (SOLID) (12")	LS	541	\$ 3.41	\$ 1,842.65
711-11-125	THERMOPLASTIC (WHITE) (SOLID) (24")	LF	122	\$ 5.67	\$ 691.50
711-11-141	THERMOPLASTIC (WHITE) (SKIP) (2-4 DOTTED GUIDELINE)	GM	0.168	\$ 3,309.92	\$ 556.07
711-11-160	THERMOPLASTIC (WHITE) (MESSAGE OR SYMBOL)	EA	4	\$ 179.24	\$ 716.98
711-11-170	THERMOPLASTIC (WHITE) (ARROW)	EA	12	\$ 80.69	\$ 968.29
711-11-180	THERMOPLASTIC (WHITE) (YIELD LINE)	LF	58	\$ 9.35	\$ 542.13
711-11-224	THERMOPLASTIC (YELLOW) (SOLID) (18")	LF	116	\$ 4.50	\$ 521.77
711-11-241	THERMOPLASTIC (YELLOW) (SKIP) (6-10)	GM	0.036	\$ 4,366.12	\$ 157.18
711-15-231	THERMOPLASTIC (YELLOW) (SKIP) (10-30)	GM	0.090	\$ 7,150.00	\$ 643.50
711-16-101	THERMOPLASTIC (WHITE) (SOLID) (6")	GM	0.673	\$ 4,920.41	\$ 3,311.44
711-16-201	THERMOPLASTIC (YELLOW) (SOLID) (6")	GM	1.061	\$ 4,821.99	\$ 5,116.13

**Total    \$ 176,689.03**

**CR 19A Roundabout Engineers Cost Estimate**

**Lighting**

<b>Pay Item</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Total Cost</b>
0630 2 11	CONDUIT, F&I, OPEN TRENCH	LF	1,455	\$ 8.57	\$ 12,464.99
0630 2 12	CONDUIT, F&I, DIRECTIONAL BORE	LF	1,585	\$ 25.39	\$ 40,241.57
0635 2 11	PULL & SPLICE BOX, F&I, 13" X 24"	EA	40	\$ 634.62	\$ 25,384.84
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	EA	1	\$ 3,624.40	\$ 3,624.40
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1	\$ 2,132.16	\$ 2,132.16
0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	LF	13,082	\$ 1.47	\$ 19,217.46
0715 1 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4-2	LF	224	\$ 1.99	\$ 445.54
0715 4 13	LIGHT POLE COMPLETE, F&I STANDARD POLE, STANDARD FOUNDATION, 40'	EA	18	\$ 6,891.46	\$ 124,046.21
0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1	\$ 14,411.33	\$ 14,411.33
0715 516 115	LIGHT POLE COMPLETE-SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, 15'	EA	3	\$ 8,244.60	\$ 24,733.80
0715500 1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	18	\$ 562.51	\$ 10,125.18

Lighting Total    \$ 276,827.46

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**Landscaping**

<b>ITEM (Common Name)</b>	<b>Specification/Unit</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Total Cost</b>
<b>Trees</b>				
Live Oak	100 Gal.	3	\$ 910.00	\$2,730.00
<b>Shrubs &amp; Groundcovers</b>				
Annuals	4" Pot	630	\$3.25	\$2,047.50
Bulbine	1 Gal.	1381	\$6.50	\$8,976.50
Blue Daze	1 Gal.	1855	\$5.20	\$9,646.00
Swamp Sunflower	1 Gal.	196	\$6.50	\$1,274.00
Blue Flag Iris	4" Pot	42	\$5.20	\$218.40
Shore Juniper	3 Gal.	499	\$15.60	\$7,784.40
Loropetalum	3 Gal.	123	\$15.60	\$1,918.80
Liriope	1 Gal.	254	\$5.20	\$1,320.80
Muhly Grass	1 Gal.	77	\$6.50	\$500.50
Heavy Metal Panicum	1 Gal.	94	\$6.50	\$611.00
Indian Hawthorn - 'Alba'	3 Gal.	136	\$13.65	\$1,856.40
Blue-eyed Grass	1 Gal.	216	\$6.50	\$1,404.00
Sand Cordgrass	1 Gal.	144	\$5.20	\$748.80
Dwarf Fakahatchee Grass	1 Gal.	52	\$5.20	\$270.40
Coontie	3 Gal.	40	\$23.40	\$936.00
<b>Sodding/Mulching</b>				
Sod - Bahia	S.F.	10000	\$0.52	\$5,200.00
Staking - Trees (Bracing)	Total	3	\$26.00	\$78.00
Top Soil	CY	250	\$37.70	\$9,425.00
Mulch	CY	150	\$62.40	\$9,360.00
<b>Irrigation</b>				
Irrigation	LS	1	\$39,000.00	\$39,000.00
<b>Hardscape</b>				
Pyramid structure	LS	1	\$120,000.00	\$120,000.00
Wall construction	LF	90	\$150.00	\$13,500.00
City Letters	LS	1	\$3,000.00	\$3,000.00

**Total            \$ 241,806.50**