

MARLIN Engineering

Transportation Planning and Traffic Engineering Services for Young Circle Redesign

STAFF-HOUR ESTIMATE

Tasks/Firm	Project Manager	Senior Planner	Planner	Senior Engineer	Senior Traffic Engineer	Traffic Engineer	Senior Designer	Engineering Technician	GIS Technician	CADD Technician	Senior Surveyor and Mapper	Surveyor	Survey Technician	Clerical	via Principal Engineer	via Senior Engineer	Total
	\$ 175.00	\$ 130.00	\$ 100.00	\$ 160.00	\$ 150.00	\$ 110.00	\$ 100.00	\$ 90.00	\$ 100.00	\$ 100.00	\$ 175.00	\$ 130.00	\$ 85.00	\$ 50.00	\$ 175.00	\$ 135.00	
1.0 Project Management and Coordination																	
1.1 Team Coordination Meetings (Bi-weekly)	12	12	0		12										12		48
1.2 Project Work Plan Monitoring	12														6		18
1.3 Quality Control (5% Marlin Hours)	60						53										
Subtotal Hours	84	12	0	0	12	0	53	0	0	0	0	0	0	0	18	0	66
Subtotal Labor Cost	\$ 14,700.00	\$ 1,560.00	\$ -	\$ -	\$ 1,800.00	\$ -	\$ 5,300.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,150.00	\$ -	\$ 26,510.00
2.0 Data Collection																	
2.1 Obtain approved development reports and info from CRA/City		0													4	8	12
2.2 Parking Inventory		4				0			8								12
2.3 Bicycle/Pedestrian Facilities Inventory		4				8			8								20
Subtotal Hours	0	8	0	0	0	8		0	16	0	0	0	0	0	4	8	44
Subtotal Labor Cost	\$ -	\$ 1,040.00	\$ -	\$ -	\$ -	\$ 880.00		\$ -	\$ 1,600.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 700.00	\$ 1,080.00	\$ 5,300.00
3.0 Public Involvement and Stakeholder Outreach/Coordination																	
3.1 Kick-Off Meeting	2														2		4
3.2 FDOT Stage 2 Interim Meeting	2				8										4	8	12
3.3 Stakeholder Meetings (BCT, BCTED, MPO)	6														6		12
3.4 Additional Meetings (8 meetings including Public and CRA Board Meetings)	8					8			8						16	8	48
Subtotal Hours	18	0	0	0	8	8	0	0	8	0	0	0	0	0	28	16	86
Subtotal Labor Cost	\$ 3,150.00	\$ -	\$ -	\$ -	\$ 1,200.00	\$ 880.00	\$ -	\$ -	\$ 800.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,900.00	\$ 2,160.00	\$ 13,090.00
4.0 Concept Development and Multi-modal Design Analysis																	
4.1 Establishment of Right of Way Lines	0							2	2		0	0	0				4
4.2 Design Controls and Criteria	2			29			29	2							8	8	78
4.3 Typical Section Analysis	7			29			29	7							8	8	88
4.4 Geometric Design	12			48			48	12									120
4.5 Access Management	2			6			6	2									16
4.6 Multi-modal Accomodations / Connectivity	2	24	24	6			6	2									64
4.7 Exceptions and Variations	1			3			3	1									8
4.8 Preliminary Utilities Coordination	1			3			3	1									8
4.9 Planning Level Cost Estimates	3			13			13	3									32
4.10 Concept Plan and Typical Sections	7			29			29	7									72
Subtotal Hours	37	24	24	166	0	0	168	39	0	0	0	0	0	0	16	16	490
Subtotal Labor Cost	\$ 6,475.00	\$ 3,120.00	\$ 2,400.00	\$ 26,560.00	\$ -	\$ -	\$ 16,800.00	\$ 3,510.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,800.00	\$ 2,160.00	\$ 63,825.00
5.0 Transportation Analysis																	0
5.1 Background Traffic Development	2														12	40	54
5.2 Diversion / Rerouting Analysis	2					60									44	80	186
5.3 Design Traffic (Year 2040)	2														32	120	154
5.4 Segment and Intersection Operation Analysis (Vissum)																	0
5.4.1 Existing Model Calibration / Validation	2				58	184											244
5.4.2 Future Model Evaluation	8				80	240											328
5.5 Roundabout and Intersection Analysis (AUTO Turn and Sidra)	4			20			80	80									184
5.6 Safety Analysis (based on CMF)	2				22	80											104
5.7 Assessment of Transit Impacts	4				16	32											52
5.8 Assessment of Parking Impacts	4				18	40											62
5.9 Transportation Impacts (Freight, Bike/Ped)	4				10	40											54
5.10 Mitigation Projects/Strategies	4				22	40											66
5.11 Documentation of Findings	8				20	40									24	12	104
Subtotal Hours	46	0	0	20	246	756		80	0	0	0	0	0	0	88	240	1476
Subtotal Labor Cost	\$ 8,050.00	\$ -	\$ -	\$ 3,200.00	\$ 36,900.00	\$ 83,160.00		\$ 7,200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,400.00	\$ 32,400.00	\$ 186,310.00
6.0 Environmental Impact Analysis																	0
6.1 Natural Environment Impacts - Desktop GIS Analysis				16					40								56
Subtotal Hours	0	0	0	16	0	0		0	40	0	0	0	0	0	0	0	56
Subtotal Labor Cost	\$ -	\$ 130.00	\$ 100.00	\$ 160.00	\$ 150.00	\$ 110.00		\$ 90.00	\$ 4,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,740.00
7.0 Project Implementation																	
7.1 Implementation/Phasing and Funding Plan	20	40			0												60
Subtotal Hours	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Subtotal Labor Cost	\$ 3,500.00	\$ 5,200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,700.00
8.0 Major Deliverables																	0
8.1 Concept Report	8	20			24				40						12		104
Subtotal Hours	8	20	0	0	24	0	0	0	40	0	0	0	0	0	12	0	104
Subtotal Labor Cost	\$ 1,400.00	\$ 2,600.00	\$ -	\$ -	\$ 3,600.00	\$ -	\$ -	\$ -	\$ 4,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,100.00	\$ -	\$ 13,700.00
Total Hours - All Tasks by Firm	203.00	104.00	24.00	202.00	282.00	772.00	221.00	119.00	104.00	0.00	0.00	0.00	0.00	0.00	154.00	272.00	2382.00
Contingency																	10000.00
Total Labor Cost	\$ 34,143.00	\$ 13,650.00	\$ 2,500.00	\$ 29,920.00	\$ 42,458.00	\$ 84,158.00	\$ 22,100.00	\$ 10,800.00	\$ 9,608.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,178.00	\$ 35,656.00	\$ 332,175.00