

Professional Engineering Services
for the City of Cocoa
Aurora Street Drainage and Roadway Improvements

DRAFT



Hourly Labor Breakdown Estimate		Engineer VII	Engineer V	Engineer III	Engineer I	Designer II	Draftsman/Tech I	Project Representative	Survey Crew	Administrative Assistant	Total Hours	Total Dollars	Percent Complete	Total Earned
Engineering Services		\$170	\$150	\$130	\$110	\$100	\$60	\$80	\$100	\$60				
TASK 1 - FIELD SERVICES COORDINATION														
a	Coordinate and perform utility locates and verify utility information with utility providers				2				4		6	\$620	0%	\$8
b	Perform engineering data collection of the project route (topography, utility locations, locations of above-ground features, etc.) and survey of property lines, right of way lines, and easements		2		2				32		36	\$3,720	0%	\$0
c	Perform site visits to determine existing site conditions to verify the design		3		3						6	\$780	0%	\$0
d	Coordination of the geotechnical investigation services that will be required for the proposed T-Dock and Day Slips.		1		2						3	\$370	0%	\$0
TASK 1 - TOTAL		0	6	0	9	0	0	0	36	0	51	\$5,490	0%	\$8
TASK 2 - DESIGN SERVICES														
a	Prepare and submit 60% design drawings, technical specifications, and a 60% opinion of probable cost	1	16			48				3	68	\$7,550	0%	\$0
b	Attend a 60% design review meeting with the City	2	2		2						6	\$860	0%	\$0
c	Perform limited coordination with homeowners and assist the City with answering questions from citizens		4		4						8	\$1,040	0%	\$0
d	Coordinate and perform subsurface utility investigations of critical utility crossings, where required for the design.		1		3				4		8	\$880	0%	\$0
e	Coordinate and perform geotechnical investigations				2						2	\$220	0%	\$0
f	Perform stormwater modeling of the new stormwater system to analyze the effects of the design and to optimize pipe sizes		4		16						20	\$2,360	0%	\$0
g	Incorporate 60% design review comments. Incorporate soft dig, geotechnical, and stormwater modeling results into the design. Prepare and submit 90% design drawings, technical specifications, and a 90% opinion of probable cost.	2	2		10	30				2	46	\$4,860	0%	\$0
h	Attend a 90% design review meeting with the City	2	2		2						6	\$860	0%	\$0
i	Incorporate 90% design review comments. Prepare and submit SJRWMD permit application with exhibits and detailed modeling results. Prepare responses to Requests for Additional Information (RAIs). One RAI is anticipated for each application.	1	8		16	12				2	39	\$4,450		
	Prepare and submit final design drawings, specifications, and final opinion of probable cost, with comments from SJRWMD incorporated into the design.	1	4		4	8				1	18	\$2,070	0%	\$0
TASK 2 - TOTAL		9	43	0	59	98	0	0	4	8	221	\$25,150	0%	\$0
TASK 3 - BIDDING SERVICES														
a	Compile the bid documents in PDF format and provide to the City for bidding purposes		1		1					4	6	\$500	0%	\$0
b	Attend the pre-bid meeting.		2		2						4	\$520	0%	\$0
c	Prepare answers to bidder questions for the City to use in preparation and distribution of bid addenda.		2		5					4	11	\$1,090	0%	\$0
d	Review bids and investigate bidder qualifications.		1		2					2	5	\$490	0%	\$0
e	Prepare a written recommendation for award of the construction contract.		2		4						6	\$740	0%	\$0
TASK 3 - TOTAL		0	8	0	14	0	0	0	0	10	32	\$3,340	0%	\$0

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Engineering Services		\$170	\$150	\$130	\$110	\$100	\$60	\$80	\$100	\$60				
TASK 4 - ENGINEERING SERVICES DURING CONSTRUCTION														
a	Attend the pre-construction conference		2		2						4	\$520	0%	\$0
b	Review and approve the shop drawings		2		10						12	\$1,400	0%	\$0
c	Review and answer Contractor requests for information (RFI)		2		8						10	\$1,180	0%	\$0
d	Provide field observations at critical points in the construction for certification. Eight (8) Inspector field visits are anticipated.		8		8			8			24	\$2,720	0%	\$0
e	Review and approve Contractor pay requests.		4		4						8	\$1,040	0%	\$0
f	Substantial Completion Review.		2		4						6	\$740	0%	\$0
g	Final Completion Review.		2		4						6	\$740	0%	\$0
h	Review Contractor's final record drawings and operation and maintenance manuals.		2		4						6	\$740	0%	\$0
i	Prepare certificates of completion to submit to agencies and close out the project		2		4						6	\$740	0%	\$0
TASK 4 - TOTAL		0	26	0	48	0	0	8	0	0	82	\$9,820	0%	\$0
TOTAL LABOR HRS		9	83	0	130	98	0	8	40	18	386	\$43,800	0%	\$0
TOTAL LABOR FEE		\$1,530	\$12,450	\$0	\$14,300	\$9,800	\$0	\$640	\$4,000	\$1,080	\$43,800	\$43,800		

SUMMARY OF TASK ESTIMATE														
ISS LABOR ESTIMATE TOTAL		\$43,800												
EXPENSES ESTIMATE TOTAL		\$0												
SUBTOTAL COST OF TASK		\$43,800												
SUBCONSULTANT SERVICES		\$6,000												
TOTAL ESTIMATED COST OF TASK		\$49,800												