

Project Information Sheet

Financial Project Identification Number: 250548-4-52-01		Federal Aid Project Identification Number: N/A	
Name of Prime / Subconsultant: Metric Engineering, Inc		County: Monroe	
Project Description: SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station			
Begin Milepost: _____	End Milepost: _____	Project Length: _____	Miles
Number of Lanes: _____		Lane Configuration: _____ (Divided / Undivided)	
Project Type: _____ (Minor / Major)		Access Management Classification: _____	Roadway Classification: _____ (NHS/FIHS/Off Sys.)
CAP Level: _____	TTCP Level: _____	Survey Level: _____	
Design Variations: 1. Sidewalk cross slope _____		Design Exceptions: 1. _____	
2. Canal Hazard _____		2. _____	
3. Superelevation _____		3. _____	
4. Horizontal Alignment _____		4. _____	
5. 6. 7. Vertical Alignment, Parking lane cross slope, SSD (already included in original agreement) _____		5. _____	
Proposed Design Contract Time: _____ months/days		Date of Negotiation: _____	Context Classification: _____

Project Activity:	Estimated By:		Negotiated By: (name - firm)	
	Consultant	FDOT	Consultant	FDOT
3. Project Common & Project General Tasks	Jessica Bloomfield, Metric	Enter name & office	Enter name & firm	Enter name & office
4. Roadway Analysis	Jessica Bloomfield, Metric	Enter name & office	Enter name & firm	Enter name & office
5. Roadway Plans	Jessica Bloomfield, Metric	Enter name & office	Enter name & firm	Enter name & office
6a. Drainage Analysis	Alex Vazquez, BCC	Enter name & office	Enter name & firm	Enter name & office
6b. Drainage Plans	Alex Vazquez, BCC	Enter name & office	Enter name & firm	Enter name & office
7. Utilities	Jessica Bloomfield, Metric	Enter name & office	Enter name & firm	Enter name & office
8. Environmental Permits and Env. Clearances	Alex Vazquez, BCC	Enter name & office	Enter name & firm	Enter name & office
9. Structures Summary	Alex Vazquez, BCC & Doug Ruggiano, Metric	Enter name & office	Enter name & firm	Enter name & office
10. Structures - Bridge Development Report	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
11. Structures - Temporary Bridge	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
12. Structures - Short Span Concrete	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
13. Structures - Medium Span Concrete	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
14. Structures - Structural Steel	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
15. Structures - Segmental Concrete	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
16. Structures - Movable Span	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
17. Structures - Retaining Walls	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
18. Structures - Miscellaneous	Alex Vazquez, BCC & Doug Ruggiano, Metric	Enter name & office	Enter name & firm	Enter name & office
19. Signing and Pavement Marking Analysis	Jessica Bloomfield, Metric	Enter name & office	Enter name & firm	Enter name & office
20. Signing and Pavement Marking Plans	Jessica Bloomfield, Metric	Enter name & office	Enter name & firm	Enter name & office
21. Signalization Analysis	Chris Dew, Metric	Enter name & office	Enter name & firm	Enter name & office
22. Signalization Plans	Chris Dew, Metric	Enter name & office	Enter name & firm	Enter name & office
23. Lighting Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
24. Lighting Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
25. Landscape Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
26. Landscape Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
27. Survey	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
28. Photogrammetry	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
29. Mapping	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
30. Terrestrial Mobile LiDAR	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
31. Architecture Development	Alex Vazquez, BCC	Enter name & office	Enter name & firm	Enter name & office
32. Noise Barriers Impact Design Assessment	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
33. Intelligent Transportation Systems Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
34. Intelligent Transportation Systems Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
35. Geotechnical	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
36. 3D Modeling	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office

Project Staff Hour Summary

Name of Consultant:

Metric Engineering, Inc

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station
250548-4-52-01

Activity No.	Activity	Project Staff Hours												Total Hours	
		Metric Engineering, Inc	BCC Engineering, Inc	Sub 2	Sub 3	Sub 4	Sub 5	Sub 6	Sub 7	Sub 8	Sub 9	Sub 10	Sub 11		Sub 12
3	Project Common and General Tasks	338													338
4	Roadway Analysis	247													247
5	Roadway Plans	131													131
6a	Drainage Analysis	0	698												698
6b	Drainage Plans	0	464												464
7	Utilities	29													29
8	Env. Permits and Env. Clearances	5	37												37
9	Structures - Summary, Misc. Tasks, Dwgs.	23	35												58
10	BDR	0													0
11	Temporary Bridge	0													0
12	Short Span Concrete Bridge	0													0
13	Medium Span Concrete Bridge	0													0
14	Structural Steel Bridge	0													0
15	Segmental Concrete Bridge	0													0
16	Movable Span	0													0
17	Retaining Walls	0													0
18	Miscellaneous Structures	68	350												418
19	Signing & Pavement Marking Analysis	47													47
20	Signing & Pavement Marking Plans	40													40
21	Signalization Analysis	134													134
22	Signalization Plans	57													57
23	Lighting Analysis	0													0
24	Lighting Plans	0													0
25	Landscape Analysis	0													0
26	Landscape Plans	0													0
27	Survey - Field and Office Support	0													0
28	Photogrammetry	0													0
29	Mapping	0													0
30	Terrestrial Mobile LIDAR	0													0
31	Architecture Development	0	394												394
32	Noise Barriers Impact Design Assessment	0													0
33	ITS Analysis	0													0
34	ITS Plans	0													0
35	Geotechnical	0													0
36	3D Modeling	0													0
	Project Total	1,119	1,978	0	0	0	0	0	0	0	0	0	0	0	3,092
27	Survey Field Crew Days	0													0

- Notes: 1. Staff hours for prime consultant come directly from each discipline's worksheet.
 2. Staff hours for subconsultants are to be entered manually into columns D through O.
 3. For workbooks prepared by subconsultants, their project hours will be totaled in column C.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 250548-4-52-01

Project Name: SR A1A/S. Roosevelt M&R w/ Widening

FAP Number: N/A

Date: 9/3/2020

Name of Consultant: Metric Engineering, Inc

WORK ACTIVITY	Hours from "Summary" sheet		EMPLOYEE CLASSIFICATION											TOTAL STAFF HOURS		ON CADD		
	Firm	Total	Chief Engineer	Project Manager	Senior Engineer	Engineer	Chief Designer	Engineer Intern	Cad Tech	Senior Environ Scientist	Scientist	Staff Classification 10	Staff Classification 11	Staff Classification 12	RANGE			
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	PERCENT			
3. Project General and Project Common Tasks	338		0	338	0	0	0	0	0	0	0	0	0	0	0	338	372	
4. Roadway Analysis	247		12	25	25	62	62	62	0	0	0	0	0	0	0	248	273	
5. Roadway Plans	131		7	16	10	33	26	26	13	0	0	0	0	0	0	131	144	
6a. Drainage Analysis	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6b. Drainage Plans	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	29		0	15	0	15	0	0	0	0	0	0	0	0	0	30	33	
8. Environmental Permits, and Env. Clearances	5		0	0	0	1	0	0	0	4	1	0	0	0	0	6	7	
9. Structures - Misc. Tasks, Dwg, Non-Tech.	23		18	0	0	0	0	0	5	0	0	0	0	0	0	23	25	
10. Structures - Bridge Development Report	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	68		54	0	0	0	0	0	14	0	0	0	0	0	0	68	75	
19. Signing & Pavement Marking Analysis	47		2	0	9	12	12	12	0	0	0	0	0	0	0	47	52	
20. Signing & Pavement Marking Plans	40		2	0	8	10	8	8	4	0	0	0	0	0	0	40	44	
21. Signalization Analysis	134		7	0	34	27	47	0	20	0	0	0	0	0	0	135	149	
22. Signalization Plans	57		3	0	11	3	14	11	14	0	0	0	0	0	0	56	62	
23. Lighting Analysis	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Analysis	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Plans	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36. 3D Modeling	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	1,119		105	394	97	163	169	119	70	4	1	0	0	0	1,122	1,236		

Notes:

1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

Field Survey Estimate:

0 4-person crew days

FIRM TOTAL

1,122

1,236

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 250548-4-52-01

Project Name: SR A1A/S. Roosevelt M&R w/ Widening

FAP Number: N/A

Date: 9/3/2020

Name of Consultant: Metric Engineering, Inc

Staff Hour Distribution Percentages - Firm Total

	Hours from "Summary" sheet Firm Total	Chief Engineer	Project Manager	Senior Engineer	Engineer	Chief Designer	Engineer Intern	Cad Tech	Senior Environ Scientist	Scientist	Staff Classification 10	Staff Classification 11	Staff Classification 12	Total
3. Project General and Project Common Tasks	338	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
4. Roadway Analysis	247	5.0%	10.0%	10.0%	25.0%	25.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	131	5.0%	12.0%	8.0%	25.0%	20.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	698	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6b. Drainage Plans	464	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
7. Utilities	29	0.0%	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
8. Environmental Permits, and Env. Clearances	37	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	75.0%	15.0%	0.0%	0.0%	0.0%	100.00%
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	23	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	68	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
19. Signing & Pavement Marking Analysis	47	5.0%	0.0%	20.0%	25.0%	25.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
20. Signing & Pavement Marking Plans	40	5.0%	0.0%	20.0%	25.0%	20.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
21. Signalization Analysis	134	5.0%	0.0%	25.0%	20.0%	35.0%	0.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
22. Signalization Plans	57	5.0%	0.0%	20.0%	5.0%	25.0%	20.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
26. Landscape Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LiDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
36. 3D Modeling	0	0.0%	0.0%	0.0%	20.0%	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - SUB TOTAL

Financial Project Number: 250548-4-52-01

Project Name: SR A1A/S. Roosevelt M&R w/ Widening

FAP Number: N/A

Date: 9/3/2020

Name of Consultant: Metric Engineering, Inc

WORK ACTIVITY	Hours from 'Summary' sheet		EMPLOYEE CLASSIFICATION											TOTAL STAFF HOURS		ON CADD	
	Firm	Total	Chief Engineer	Project Manager	Senior Engineer	Engineer	Chief Designer	Engineer Intern	Cad Tech	Senior Environ Scientist	Scientist	Staff Classification 10	Staff Classification 11	Staff Classification 12	RANGE		
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	PERCENT		
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6a. Drainage Analysis	698	70	105	105	140	70	209	0	0	0	0	0	0	699	769		
6b. Drainage Plans	464	46	70	70	93	46	139	0	0	0	0	0	0	464	510		
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits, and Env. Clearances	37	4	6	6	7	4	11	0	0	6	0	0	0	44	48		
9. Structures - Misc. Tasks, Dwg, Non-Tech	35	4	5	5	7	4	11	0	0	0	0	0	0	36	40		
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	350	35	53	53	70	35	105	0	0	0	0	0	0	351	386		
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	394	39	59	59	79	39	118	0	0	0	0	0	0	393	432		
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	1,978	198	298	298	396	198	593	0	0	6	0	0	0	1,987	2,185		

Field Survey Estimate:

0 4-person crew days

FIRM TOTAL

1,987

2,185

Notes:

1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 250548-4-52-01

Project Name SR A1A/S. Roosevelt M&R w/ Widening

FAP Number: N/A

Date: 9/3/2020

Name of Consultant: Metric Engineering, Inc

Staff Hour Distribution Percentages - Firm Total

	Hours from Summary sheet Firm Total	Chief Engineer	Project Manager	Senior Engineer	Engineer	Chief Designer	Engineer Intern	Cad Tech	Senior Envrnm Scientist	Scientist	Staff Classification 10	Staff Classification 11	Staff Classification 12	Total
3. Project General and Project Common Tasks	338	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
4. Roadway Analysis	247	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	131	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	698	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6b. Drainage Plans	464	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
7. Utilities	29	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
8. Environmental Permits, and Env. Clearances	37	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	15.0%	0.0%	0.0%	0.0%	115.00%
9. Structures - Misc. Tasks, Dwg, Non-Tech.	23	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
10. Structures - Bridge Development Report	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
11. Structures - Temporary Bridge	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
12. Structures - Short Span Concrete Bridge	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
13. Structures - Medium Span Concrete Bridge	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
14. Structures - Structural Steel Bridge	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
15. Structures - Segmental Concrete Bridge	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
16. Structures - Movable Span	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
17. Structures - Retaining Walls	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
18. Structures - Miscellaneous	68	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
19. Signing & Pavement Marking Analysis	47	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
20. Signing & Pavement Marking Plans	40	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
21. Signalization Analysis	134	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
22. Signalization Plans	57	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
23. Lighting Analysis	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
24. Lighting Plans	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
25. Landscape Analysis	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
26. Landscape Plans	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
27. Survey (Field & Office Support)	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
28. Photogrammetry	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
29. Mapping	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
30. Terrestrial Mobile LiDAR	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
31. Architecture Development	394	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
32. Noise Barriers Impact Design Assessment	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
33. Intelligent Transportation Systems Analysis	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
34. Intelligent Transportation Systems Plans	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
35. Geotechnical	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
36. 3D Modeling	0	10.0%	15.0%	15.0%	20.0%	10.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station
 County: Monroe
 FPN: 250548-4-52-01
 FAP No.: N/A

Consultant Name: Metric Engineering, Inc
 Consultant No.: NA
 Date: 9/3/2020
 Estimator: Jessica Bloomfield, PE

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Engineer	Project Manager	Senior Engineer	Engineer	Chief Designer	Engineer Intern	Cad Tech	Senior Envir Scientist	Scientist	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$75.75	\$70.68	\$66.95	\$50.48	\$37.51	\$32.25	\$26.44	\$48.08	\$31.25	\$0.00	\$0.00	\$0.00			
3. Project General and Project Common Tasks	338	0	338	0	0	0	0	0	0	0	0	0	0	338	\$23,890	\$70.68
4. Roadway Analysis	247	12	25	25	62	62	62	0	0	0	0	0	0	248	\$11,805	\$47.60
5. Roadway Plans	131	7	16	10	33	26	26	13	0	0	0	0	0	131	\$6,154	\$46.98
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	29	0	15	0	15	0	0	0	0	0	0	0	0	30	\$1,817	\$60.58
8. Environmental Permits, and Env. Clearances	5	0	0	0	1	0	0	0	4	1	0	0	0	6	\$274	\$45.68
9. Structures - Misc. Tasks, Dwgs, Non-Tech	23	18	0	0	0	0	0	5	0	0	0	0	0	23	\$1,496	\$65.03
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	68	54	0	0	0	0	0	14	0	0	0	0	0	68	\$4,461	\$65.60
19. Signing & Pavement Marking Analysis	47	2	0	9	12	12	12	0	0	0	0	0	0	47	\$2,197	\$46.74
20. Signing & Pavement Marking Plans	40	2	0	8	10	8	8	4	0	0	0	0	0	40	\$1,856	\$46.39
21. Signalization Analysis	134	7	0	34	27	47	0	20	0	0	0	0	0	135	\$6,461	\$47.86
22. Signalization Plans	57	3	0	11	3	14	11	14	0	0	0	0	0	56	\$2,365	\$42.24
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	1,119	105	394	97	163	169	119	70	4	1	0	0	0	1,122		
Total Staff Cost		\$7,953.75	\$27,847.92	\$6,494.15	\$8,228.24	\$6,339.19	\$3,837.75	\$1,850.80	\$192.32	\$31.25	\$0.00	\$0.00	\$0.00		\$62,775.37	\$55.95

Survey Field Days by Subconsultant
 4 - Person Crew.

SALARY RELATED COSTS:				\$62,775.37
OVERHEAD:		156%		\$97,935.85
OPERATING MARGIN:		38%		\$23,854.64
FCCM (Facilities Capital Cost Money):		0.09%		\$56.50
EXPENSES:		5.75%		\$3,609.58
Survey (Field - If by Prime)	0	4-person crew days @	\$ / day	\$0.00
SUBTOTAL ESTIMATED FEE:				\$188,231.94
Subconsultant: BCC Engineering, Inc				\$273,428.82
SUBTOTAL ESTIMATED FEE:				\$461,660.76
Geotechnical Field and Lab Testing				\$0.00
SUBTOTAL ESTIMATED FEE:				\$461,660.76
Optional Services				\$0.00
GRAND TOTAL ESTIMATED FEE:				\$461,660.76

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station
 County: Monroe
 FPN: 250548-4-52-01
 FAP No.: N/A

Consultant Name: Metric Engineering, Inc
 Consultant No.: BCC Engineering, Inc
 Date: 9/3/2020
 Estimator: Alex Vazquez, PE

Staff Classification	Total Staff Hours From "SH Summary Firm"	Senior Engineer	Project Engineer	Chief Designer	Engineer	Engineer Intern	CAD/Computer	Staff Classificatio	Staff Classificatio	Staff Classificatio	Staff Classificatio 10	Staff Classificatio 11	Staff Classificatio 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	698	70	105	105	140	70	209	0	0	0	0	0	0	699	\$21,897	\$45.63
6b. Drainage Plans	464	46	70	70	93	46	139	0	0	0	0	0	0	464	\$21,157	\$45.60
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, and Env. Clearances	37	4	6	6	7	4	11	0	0	6	0	0	0	44	\$1,757	\$39.93
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	35	4	5	5	7	4	11	0	0	0	0	0	0	36	\$1,643	\$45.65
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	350	35	53	53	70	35	105	0	0	0	0	0	0	351	\$16,017	\$45.63
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	394	39	59	59	79	39	118	0	0	0	0	0	0	393	\$17,909	\$45.57
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	1,978	198	298	298	396	198	593	0	0	6	0	0	0	1,967		
Total Staff Cost		\$17,134.92	\$17,176.72	\$16,625.42	\$17,134.92	\$8,094.24	\$14,214.21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$90,380.43	\$45.49

Check = \$90,380.43

SALARY RELATED COSTS:			\$90,380.43
OVERHEAD:	163%		\$147,130.30
OPERATING MARGIN:	37%		\$33,440.76
FCCM (Facilities Capital Cost Money):	0.39%		\$353.39
EXPENSES:	2.35%		\$2,123.94
SUBTOTAL ESTIMATED FEE:			\$273,428.82
Survey (Field)	0	4-person crew \$ - / day	\$0.00
Geotechnical Field and Lab Testing			\$0.00
SUBTOTAL ESTIMATED FEE:			\$273,428.82
Optional Services			\$0.00
GRAND TOTAL ESTIMATED FEE:			\$273,428.82

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	Done by others
3.1.2	Notifications	LS	1	12	12	Mid range
3.1.3	Preparing Mailing Lists	LS	1	30	30	New list - mid range
3.1.4	Median Modification Letters	LS	1	0	0	
3.1.5	Driveway Modification Letters	LS	1	0	0	
3.1.6	Newsletters	LS	1	40	40	40 hours for initial
3.1.7	Renderings and Fly Throughs	LS	1	0	0	
3.1.8	PowerPoint Presentation	LS	1	80	80	Presentation with voice over 120 Hrs. (40 hrs slide development, 24 hours script, 16 hours voiceover)
3.1.9	Public Meeting Preparations	LS	1	0	0	District to prepare (Mailouts, advertisements, press releases)
3.1.10	Public Meeting Attendance/Followup	LS	1	64	64	6 MEI staff x 4 hours = 24 Hrs attendance, then 40 hours follow up
3.1.11	Other Agency Meetings	LS	1	0	0	
3.1.12	Web Site	LS	1	0	0	
3.1 Public Involvement Subtotal					226	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	1	18	18	Prepare Specs Package and this is the lead project (goes with project) - mid-range
3.4	Contract Maintenance and Project Documentation	LS	1	36	36	Initial set up and past maintenance already performed. 12 months continued effort = 12 months x 3 hours/month
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	32	32	See listing below
3.7	Plans Update	LS	1	0	0	

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	
3.9	Digital Delivery	LS	1	18	18	Low end - 6 hours for Set up and signing 1st EOR (1 Roadway, Network Control & SAPM (Jolie)) plus 3 hours per additional EOR x 4, 1 Geotech (Oracio), 1 Drainage (Luis), 1 Signalization and 1 Structures) 6 + 3 x 4 = 18 hours
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.11.1	Aeronautical Evaluation	LS	1	0	0	
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	
3.13	Other Project General Tasks	LS	1	8	8	Contract Time Estimate for construction
3. Project Common and Project General Tasks Total					338	

3.6 - List of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis	EA	2	1.5	3	Virtual meetings - for Design Variations
Drainage	EA	3	1	3	Teleconference
Utilities	EA	0	0	0	
Environmental	EA	0	0	0	
Structures	EA	0	0	0	
Signing & Pavement Marking	EA	0	0	0	
Signalization	EA	0	0	0	
Lighting	EA	0	0	0	
Landscape Architecture	EA	0	0	0	
Survey	EA	0	0	0	
Photogrammetry	EA	0	0	0	
ROW & Mapping	EA	0	0	0	
Terrestrial Mobile LiDAR	EA	0	0	0	
Architecture	EA	0	0	0	
Noise Barriers	EA	0	0	0	
ITS Analysis	EA	0	0	0	
Geotechnical	EA	0	0	0	
Progress Meetings	EA	12	1	12	PM progress meetings, 1 x month remaining contract x 12 month (Sept 2020 to Sept 2021)
Phase Reviews	EA	2	3	6	Not performed in SA 5 or billed in SA 5 - needed for next two phase submittals
Field Reviews	EA	1	8	8	Includes travel time from Miami
Total Project Manager Meetings		20		32	Total PM Meeting Hours carries to Task 3.6 above

Project Activity 4: Roadway Analysis

Estimator: Jessica Bloomfield, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station

250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	0	0	NA - Typical Section Package approved; 100% of SA #5 completed (8 hours)
4.2	Pavement Type Selection Report	LS	1	0	0	NA
4.3	Pavement Design Package	LS	1	0	0	No updates needed from prior design - Geotech to confirm no subsoil excavation or settlement issues due to consolidation due to loading from proposed overbuild; 100% of SA #5 completed (24 hours)
4.4	Cross-Slope Correction	LS	1	0	0	NA
4.5	Horizontal /Vertical Master Design Files	LS	1	25	25	19 hours rolled from SA #5 (60% of 32 hours from SA #5) - design effort to proceed with current horizontal layout and current vertical profile. Plus 6 hours for the edge of pavement profile and connections to sidestreets and driveways to be reviewed and adjusted due to new drainage design
4.6	Access Management	LS	1	0	0	NA
4.7	Roundabout Evaluation	LS	1	0	0	NA
4.8	Roundabout Final Design Analysis	LS	1	0	0	NA
4.9	Cross Section Design Files	LS	1	12	12	Update cross sections in areas where profile may be adjusted, and driveway/side road tie-in adjustments
4.10	Temporary Traffic Control Plan Analysis	LS	1	21	21	Due to new drainage design, new construction phasing needs to be developed, determine need to use critical sheet piles during construction 10 hours plus 11 hours for evaluation of temporary traffic control analysis
4.11	Master TTCP Design Files	LS	1	15	15	Due to new drainage design, TTCP for construction of new trunk lines, Pump Station - edits to design file for each TTC phase (sheets already cut)
4.12a	Selective Clearing and Grubbing of Existing Vegetation Field Assessment	LS	1	0	0	NA
4.12b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coord. (OPTIONAL SERVICES)	LS	1	0	0	NA
4.12c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	NA
4.13	Tree Disposition Plan	LS	1	0	0	NA - Palm Tree Removal callouts to remain on plans as is
4.14	Design Variations and Exceptions	LS	4	24	96	4 additional Design Variations required x 24 hours each, as per approved Typical Section Package (7 total, 3 were in original contract)
4.15	Design Report	LS	1	0	0	No additional hours to update and complete Design Documentation

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.16	Quantities	LS	1	8	8	Additional Quantity revisions for concrete work/ driveway access to Pump Station, revised TTC pay items
4.17	Cost Estimate	LS	1	16	16	
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	NA
4.19	Other Roadway Analyses	LS	1	6	6	Estimate of Contract Time (Construction Duration) for Department's use
Roadway Analysis Technical Subtotal					199	
4.20	Field Reviews	LS	1	10	10	1 Additional Review for final design - Project Engineer (roadway and SPM) 6 hrs travel time & 4 hrs review
4.21	Monitor Existing Structures	LS	1	0	0	NA
4.22	Technical Meetings	LS	1	13	13	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	10	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	10	
Roadway Analysis Nontechnical Subtotal					43	
4.26	Coordination	LS	%	2%	5	
4. Roadway Analysis Total					247	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number	
Typical Section	EA	0	0	0		no	0	
Pavement	EA	0	0	0		no	0	
Access Management	EA	0	0	0	NA		0	
15% Line and Grade	EA	0	0	0	NA		0	
Driveways	EA	0	0	0	NA - all driveway harmonization to occur within current R/W, LA's		0	
Local Governments (cities, counties, MPO)	EA	0	0	0			0	
Work Zone Traffic Control	EA	0	0	0	NA		0	
90/100% Comment Review Meetings	EA	2	2	4	90% Resubmittal and 100% comment resolution		0	
Other Meetings	EA	3	1	3	2 Meetings with City of Key West for design decisions and concurrence, concurrence from FDOT Construction and maintenance	yes	3	
Subtotal Technical Meetings				7			Subtotal Project Manager Meetings	3
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
	Phase Review Meetings	EA	2	3	6	PM attendance at Phase Review Meetings is manually entered on General Task 3
	Total Meetings				13	Total Project Manager Meetings (carries to Tab 3)

Project Activity 5: Roadway Plans

Estimator: Jessica Bloomfield, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station

250548-4-52-01

Representing		Print Name	Signature / Date
FDOT District			
Consultant Name			

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	1	1	1	Updates to additional drainage sheets and other new components to plans
5.2	Summary of Pay Items Including Quantity Input		Sheet	2	4	8	Revised for final quantities
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	0	0	0	
5.3.2	Typical Section Details		EA	3	4	12	Updates required
5.4	General Notes/Pay Item Notes		Sheet	0	0	0	
5.5	Summary of Quantities Sheets		Sheet	5	2	10	Updates required to specific pay items, clearing/grubbing, concrete removal, and driveway construction items - from new Pump Station
5.6	Project Layout		Sheet	0	0	0	
5.7	Plan/Profile Sheet		Sheet	11	2	22	Update all labels and incorporate new drainage onto Plan Sheets
5.8	Profile Sheet		Sheet	0	0	0	NA
5.9	Plan Sheet		Sheet	0	0	0	NA
5.10	Special Profile		Sheet	2	2	4	Updates to Driveway profiles needed for 2 Condo property driveways
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	NA
5.12	Interchange Layout Sheet		Sheet	0	0	0	NA
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	NA
5.14	Intersection Layout Details		Sheet	0	0	0	NA
5.15	Special Details		EA	0	0	0	NA
5.16	Cross-Section Pattern Sheets		Sheet	0	0	0	NA

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.17	Roadway Soil Survey Sheets		Sheet	0	0	0	To be provided by Geotech
5.18	Cross Sections		EA	83	0.2	17	Minor Updates; Seawall updates, adjustments to cross slopes if needed for drainage
5.19	Temporary Traffic Control Plan Sheets		Sheet	11	2	22	Update required per new drainage design 11 sheets x 2 hours each (all phases 3 hours total per sheet)
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	
5.21	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	NA
5.22	Utility Adjustment Sheets		Sheet	11	1	11	Add labels for test holes at HAWKs, adjustments to Utilities for pump system/utility relocations
5.23	Selective Clearing and Grubbing Sheets						
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	NA
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	NA
5.24	Tree Disposition Sheets						
5.24.1	Tree Disposition Plan Sheets		Sheet	0	0	0	NA
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	NA
5.25	Project Control Sheets		Sheet	1	8	8	To be prepared by Roadway EOR as per new direction in Design Bulletin
5.26	Environmental Detail Sheets		Sheet	0	0	0	NA
5.27	Utility Verification Sheets (SUE Data)		Sheet	1	4	4	Test Holes for HAWK and drainage system - summarize test hole data sheets into UTV sheets SUE investigations will be necessary for drainage structures and HAWK signal foundation, and shall be provided by the DEPARTMENT
Roadway Plans Technical Subtotal						119	
5.28	Quality Assurance/Quality Control		LS	%	5%	6	
5.29	Supervision		LS	%	5%	6	
5. Roadway Plans Total						131	

Project Activity 6a: Drainage Analysis

Estimator: Alex Vazquez, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station
250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	5	6	30	Modify previous maps 1" = 40 scale (double stake)
6a.2	Base Clearance Calculations	Per Location	0	0	0	Use Metric's current profile. No base clearance evaluation needed
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	NA
6a.4	Design of Cross Drains	EA	0	0	0	NA
6a.5	Design of Ditches	Per Ditch Mile	0	0	0	NA
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	NA
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	0	0	0	NA
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	NA
6a.9	Design of Storm Drains	EA	55	2.5	138	Per Ribbeck's concept plan. Move drainage trunkline as needed to avoid utilities.
6a.10	Optional Culvert Material	EA	55	0.15	8	
6a.11	French Drain Systems	Per Cell	0	0	0	NA
6a.11.1	Existing French Drain Systems	Per Cell	0	0	0	NA
6a.12	Drainage Wells	EA	6	10	60	6 New injection wells - Per Ribbeck's concept plan
6a.13	Drainage Design Documentation Report	LS	1	60	60	Modify previous Design Documentation
6a.14	Bridge Hydraulic Report	EA	0	0	0	NA

Project Activity 6a: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	2	16	32	Assume two phases for traffic control
6a.16	Cost Estimate	LS	1	10	10	Support roadway with pump station cost elements
6a.17	Technical Special Provisions / Modified Special Provisions	LS	1	12	12	Assum 2 TPS for pump pollution control and pump station elements (pumps/panel/telemetry, etc.)
6a.18	Hydroplaning Analysis	LS	1	0	0	NA
6a.19	Existing Permit Analysis	LS	0	0	0	FDOT to perform this task.
6a.20	Other Drainage Analysis	LS	1	240	240	Drainage pump station design: Includes design/sizing of all pump station elements including: (1) Pump station system head Loss/FTDH Analysis, (2) Pollution Control Structure design, (3) Trash-Rake Unit sizing, (4) gate valve sizing, (5) check valve sizing, (6) forcemain & drainage well manifolds design, (7) energy dissipator design, (8) emergency gravity bypass & outfall design(9) system overflow connection design. Additional work effort includes (10) conduct integrated ICPR flood routing analysis (interconnected storm sewer and pump station systems as well as (11) design coordination & interphase with pump station structural, electrical & mechanical design.
6a.21	Noise Barrier Evaluation	LS	1	0	0	NA
Drainage Analysis Technical Subtotal					590	
6a.22	Field Reviews	LS	1	16	16	One field site visit to Key West; 2 engineers 8 hours each
6a.23	Technical Meetings	LS	1	18	18	Meetings are listed below
6a.24	Environmental Look-Around (ELA) Meeting	LS	1	0	0	NA
6a.25	Quality Assurance/Quality Control	LS	%	5%	30	
6a.26	Independent Peer Review	LS	%	0%	0	
6a.27	Supervision	LS	%	5%	30	NA
Drainage Analysis Nontechnical Subtotal					94	
6a.28	Coordination	LS	%	2%	14	
6a. Drainage Analysis Total					698	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	0	0	0			0
Agency	EA	1	4	4	Permitting		
Local Governments (cities, counties)	EA	1	8	8	6hr trav.+2 hour meeting= 8 hours (City of Key West)		
FDOT Drainage	EA	3	2	6	Assume 3 meetings with FDOT Drainage: 2 engineers x 1 hr / meeting	Yes	1
Other Meetings	EA	0	0	0	No internal coordination meeting		0
Subtotal Technical Meetings				18			1
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				18	Total Project Manager Meetings (carries to Tab 3)		1

Carries to 6.19

Carries to Tab 3

6b. Drainage Plans

Estimator: Alex Vazquez, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station

250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (Including Interchanges)	100	Sheet	5	10	50	Modify previous maps 1" = 40 scale (double stack)
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	NA
6b.3	Summary of Drainage Structures		Sheet	2	18	36	55 drainage structures. Assume 32 structures per sheet = 2 sheets.
6b.4	Optional Pipe/Culvert Material		Sheet	1	6	6	
6b.5	Drainage Structure Sheets (Per Structure)		EA	61	2	122	50 inlets/6 wells/ 5 pump station structures: 61 structures: structures.
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	8	24	192	Drainage pump station design elements: Pump house wet well, pollution control structure, trash rake unit, check valve box, gate valve box, forcemain, manifold and fillings, emergency gravity bypass outfall, drainage well pressurized manifold, energy dissipator, system overflow outfall.
6b.7	Lateral Ditch Plan/Profile		Sheet	0	0	0	NA
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	NA
6b.9	Retention/Detention Ponds Detail Sheets		Sheet	0	0	0	NA
6b.10	Retention Pond Cross Sections		EA	0	0	0	NA
6b.11	Erosion Control Plan Sheets	100	Sheet	2	4	8	0.9 miles; 5 - Plan Sheets with erosion control devices (assume only 2 sheets to be modified)
6b.12	SWPPP Sheets	200	Sheet	2	4	8	0.9 miles; 2 - Plan Sheets - Details and notes associated with ECP
Drainage Plans Technical Subtotal						422	
6b.13	Quality Assurance/Quality Control		LS	%	5%	21	
6b.14	Supervision		LS	%	5%	21	
6. Drainage Plans Total						464	

Project Activity 7: Utilities

Estimator: Jessica Bloomfield, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station
250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Utility Kickoff Meeting	LS	1	0	0	Meeting is listed below
7.2	Identify Existing Utility Agency Owner(s)	LS	1	0	0	NA
7.3	Make Utility Contacts	LS	1	0	0	NA
7.4	Exception Processing	LS	1	0	0	NA
7.5	Preliminary Utility Meeting	LS	1	0	0	Meeting is listed below
7.6	Individual/Field Meetings	LS	1	4	4	Meetings are listed below
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	0	0	NA
7.8	Subordination of Easements Coordination	LS	1	0	0	NA
7.9	Utility Design Meeting	LS	1	6	6	Meeting is listed below
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	5	2	10	5 utility work schedules at 2 hours each
7.11	Utility Coordination/Followup	LS	1	5	5	Additional coordination with utilities impacted by new drainage system; 5 utilities x 1 hour each
7.12	Utility Constructability Review	LS	1	0	0	NA
7.13	Additional Utility Services	LS	1	0	0	NA
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	NA
7.15	Contract Plans to UAO(s)	LS	1	4	4	Send plans out to all utilities upon completion of new design
7.16	Certification/Close-Out	LS	1	0	0	NA
7.17	Other Utilities	LS	1	0	0	NA
7. Utilities Total					29	

Project Activity 7: Utilities

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff (see 7.1)	EA	0	0	0			0
Preliminary Meeting (see 7.5)	EA	0	0	0			0
Individual UAO Meetings (see 7.6)	EA	0	0	0			0
Field Meetings (see 7.6)	EA	1	4	4		no	0
Design Meeting (see 7.9)	EA	2	3	6	ATT and Florida Keys		0
Other Meetings (this is automatically added into Utilities Total (cell F27))	EA	0	0	0			0
Total Meetings				10	Total Project Manager Meetings (carries to Tab 3)		0

Carries to Tab 3

Project Activity 8: Environmental Permits

Estimator: Alex Vazquez, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station

250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
Environmental Permits and Environmental Clearances						
8.1	Preliminary Project Research	LS	1	2	2	
Permits						
8.2	Field Work					
8.2.1	Pond Site Alternatives	per pond site	0	0	0	
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	0	0	
8.2.3	Species Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	0	0	
8.4	Complete And Submit All Required Permit Applications					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	0	0	
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	0	0	
8.6	Prepare USCG Permit Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	30	30	Assume no ERP modification required or other permits required. Hours are to modify existing FDEP Class V well permit.
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	0	0	
8.10	Compensatory Mitigation Plan	LS	1	0	0	

Project Activity 8: Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.11	Mitigation Coordination and Meetings	LS	1	0	0	
8.12	Other Environmental Permits	LS	1	5	5	Metric hours to revise permit forms.
	Environmental Clearances/Reevaluations					
8.13	Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)					
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Resources	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.13.5	Protected Speices and Habitat Impact Analysis	LS	1	0	0	
8.14	Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Resources	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.14.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	1	0	0	
Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal					37	
8.17	Technical Meetings	LS	1	0	0	Meetings covered under Drainage Analysis
8.18	Quality Assurance/Quality Control	LS	%	5%	2	
8.19	Supervision	LS	%	5%	2	
Environmental Permits and Environmental Clearances Nontechnical Subtotal					4	
8.20	Coordination	LS	%	2%	1	

Project Activity 8: Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8. Environmental Permits and Environmental Clearances Total					42	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
WMD	EA	0	0	0			0
NMFS	EA	0	0	0			0
USACE	EA	0	0	0			0
USCG	EA	0	0	0			0
USFWS	EA	0	0	0			0
FFWCC	EA	0	0	0			0
FDOT	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				0		Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
Total Meetings				0		Total Project Manager Meetings (carries to Tab 3)	0

Carries to 8.18

Carries to Tab 3

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Estimator: Jessica Bloomfield, PE
Alex Vazquez, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station
250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	Design and Production Staffhours				Comments					
			No. of Units	Hours per Unit	No. of Sheets	Total						
General Drawings												
9.1	Key Sheet and Index of Drawings	Sheet	0	0	0	0						
9.2	Project Layout	Sheet	0	0	0	0						
9.3	General Notes and Bid Item Notes	Sheet	0	0	0	0						
9.4	Miscellaneous Common Details	Sheet	0	0	0	0						
9.5	Incorporate Report of Core Borings	Sheet	0	0	0	0						
9.6	Standard Plans- Bridges	LS	1	0		0						
9.7	Existing Bridge Plans	LS	1	0		0						
9.8	Assemble Plan Summary Boxes and Quantities	LS	1	0		0						
9.9	Cost Estimate	LS	1	0		0						
9.10	Technical Special Provisions and Modified Special Provisions	LS	1	0		0						
Structures - Summary and Miscellaneous Tasks and Drawings					0	0						
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18	
10-16	Bridge 1	0	0	0	0	0	0	0	0			
10-16	Bridge 2	0										
10-16	Bridge 3	0										
10-16	Bridge 4	0										
10-16	Bridge 5	0										

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

10-16	Bridge 6	0									
10-16	Bridge 7	0									
10-16	Bridge 8	0									
10-16	Bridge 9	0									
10-16	Bridge 10	0									
17	Retaining Walls	0								0	
18	Miscellaneous Structures	418									418
Structures Technical Subtotal		418	0	0	0	0	0	0	0	0	418
Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments					
9.11	Field Reviews	LS	1	0	0						
9.12	Technical Meetings	LS	1	8	8	Meetings are listed below					
9.13	Quality Assurance/Quality Control	LS	%	5%	21						
9.14	Independent Peer Review	LS	1	0	0						
9.15	Supervision	LS	%	5%	21						
Structures Nontechnical Subtotal					50						
9.16	Coordination	LS	1	8	8						
9. Structures - Summary and Miscellaneous Tasks and Drawings Nontechnical and Coordination Total					58						

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
BDR Coordination/Review	EA	0	0	0			0
90/100% Comment Review	EA	2	4	8	2 meetings @ 2 hrs each		0
Aesthetics Coordination	EA	0	0	0			0
Regulatory Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	0	0	0			0
Utility Companies	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				8			0

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>	--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>	--
Total Meetings				8	Total Project Manager Meetings (carries to Tab 3)	0

Carries to 9.11

Carries to Tab 3

Project Activity 18: Miscellaneous Structures

Estimator: Jessica Bloomfield, PE
Alex Vazquez, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station
250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Concrete Box Culvert							
18.1	Concrete Box Culverts	EA	0	0		0	
18.2	Concrete Box Culverts Extensions	EA Extension	0	0		0	
18.3	Concrete Box Culvert Data Table Plan Sheets	Sheet	0	0	0	0	
18.4	Concrete Box Culvert Special Details Plan Sheets	Sheet	0	0	0	0	
Strain Poles							
18.5	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.6	Concrete Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.7	Strain Pole Data Table Plan Sheets	Sheet	0	0	0	0	
18.8	Strain Pole Special Details Plan Sheets	Sheet	0	0	0	0	
Mast Arms							
18.9	Mast Arms	EA Design	11	4		44	Metric Task - Special Foundations required due to utility conflicts & poor soil conditions - assume std. design = 6 mast arms at 4 hours each = 24 hours + 20 hrs for optional services - special design (2 at 10 hours); total = 44 hours
18.10	Mast Arms Data Table Plan Sheets	Sheet	1	8	1	8	Metric Task
18.11	Mast Arm Special Details Plan Sheets	Sheet	1	16	1	16	Metric Task - Prepare special foundation details for elevated cabinet
Overhead/Cantilever Sign Structures							
18.12	Cantilever Sign Structures	EA Design	0	0		0	
18.13	Overhead Span Sign Structures	EA Design	0	0		0	
18.14	Special (Long Span) Overhead Span Sign Structures	EA Design	0	0		0	
18.15	Monotube Overhead Sign Structure	EA Design	0	0		0	
18.16	Bridge Mounted Signs (Attached to Superstr.)	EA Design	0	0		0	
18.17	Overhead and Cantilever Sign Structures Data Table Plan Sheets	Sheet	0	0	0	0	
18.18	Overhead and Cantilever Sign Structures Special Details Plan Sheets	Sheet	0	0	0	0	
High Mast Lighting							
18.19	Non-Standard High Mast Lighting Structures	EA Design	0	0		0	
18.20	High Mast Lighting Special Details Plan Sheets	Sheet	0	0	0	0	
Noise Barrier Walls (Ground Mount)							
18.21	Horizontal Wall Geometry	EA Wall	0	0		0	
18.22	Vertical Wall Geometry	EA Wall	0	0		0	
18.23	Summary of Quantities - Aesthetic Requirements	Sheet	0	0	0	0	
18.24	Control Drawings	Sheet	0	0	0	0	
18.25	Design of Noise Barrier Walls Covered by Standards	EA Design	0	0		0	
18.26	Design of Noise Barrier Walls Not Covered by Standards	EA Design	0	0		0	
18.27	Aesthetic Details	LS	1	0		0	

Project Activity 18: Miscellaneous Structures

Special Structures							
18.28	Fender System	LS	1	0		0	
18.29	Fender System Access	LS	1	0		0	
18.30	Special Structures	LS	1	0		0	
18.31	Other Structures	LS	1	350	12	350	BCC Tasks: •Trash rack structure •Pump station structure with wetwell •Overflow control structure. •Control panel access steel ramp: This is to access the control panel because is going to be several feet above the ground. (Assume no above ground generator pad) Excludes sheet pile wall design during construction. Total Task = 350 hours No optional services at this time (30 hours of optional services if critical sheetpile wall design is required). If needed, will be done at Post Design Services
Ancillary Structures Report							
18.32	Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles	EA structure	0	0	0	0	
18.33	Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles (No As built or Design Plans Available)	EA structure	0	0	0	0	
18.34	Analytical Evaluation of Signal and Sign Structures, and High Mast Light Poles	EA structure	0	0	0	0	
18.35	Ancillary Structures Report	LS	1	0		0	
18. Structures - Miscellaneous Total					14	418	

Project Activity 19: Signing and Pavement Marking Analysis

Estimator: Jessica Bloomfield, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station

250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	
19.2	No Passing Zone Study	LS	1	0	0	
19.3	Signing and Pavement Marking Master Design File	LS	1	24	24	Complete SAPM, Phase III and Phase IV submittal (100% roll over of updates from SA #5)
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	
19.5	Sign Panel Design Analysis	EA	1	0	0	
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	
19.7	Quantities	LS	1	12	12	Revision to quantities from 19.3 (100% roll over from SA #5)
19.8	Cost Estimate	LS	1	0	0	Included in Roadway
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
19.10	Other Signing and Pavement Marking	LS	1	0	0	
Signing and Pavement Marking Analysis Technical Subtotal					36	
19.11	Field Reviews	LS	1	0	0	
19.12	Technical Meetings	LS	1	6	6	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	2	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	2	
Signing and Pavement Marking Analysis Nontechnical Subtotal					10	
19.16	Coordination	LS	%	2%	1	
19. Signing and Pavement Marking Analysis Total					47	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Sign Panel Design	EA	0	0	0			0
Queue Length Analysis	EA	0	0	0			0
Local Governments (cities, counties)	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				0		Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--

Project Activity 19: Signing and Pavement Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
	Phase Review Meetings	EA	2	3	6	PM attendance at Phase Review Meetings is manually entered on General Task 3
	Total Meetings				6	Total Project Manager Meetings (carries to Tab 3)
						0

Carries to 19.12

Carries to Tab 3

Project Activity 20: Signing and Pavement Marking Plans

Estimator: Jessica Bloomfield, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station
250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	1	2	1	2	Revise to new requirements (100% roll over from SA #5)
20.2	Summary of Pay Items Including Input		LS	1	0		0	
20.3	Tabulation of Quantities		Sheet	2	4	2	8	Revise per relocation of cross walk and HAWK (100% roll over from SA #5)
20.4	General Notes/Pay Item Notes		Sheet	1	2	1	2	Revise to new ERC notes (100% roll over from SA #5)
20.5	Project Layout		Sheet	0	0	0	0	
20.6	Plan Sheet		Sheet	6	4	6	24	Revise per relocation of cross walk, realignment, and HAWK (100% roll over from SA #5)
20.7	Typical Details		EA	0	0		0	
20.8	Guide Sign Worksheets		EA	0	0		0	
20.9	Traffic Monitoring Site		EA	0	0		0	
20.10	Cross Sections		EA	0	0		0	
20.11	Special Service Point Details		EA	0	0		0	
20.12	Special Details		LS	1	0		0	
20.13	Interim Standards		LS	1	0		0	
Signing and Pavement Marking Plans Technical Subtotal						10	36	
20.14	Quality Assurance/Quality Control		LS	%	5%		2	
20.15	Supervision		LS	%	5%		2	
20. Signing and Pavement Marking Plans Total						10	40	

Project Activity 21: Signalization Analysis

Estimator: Christopher Dew, PE, PTOE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station

250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
21.1	Traffic Data Collection	LS	1	4	4	Crash reports review, gather existing counts (100% roll over from SA #5)
21.2	Traffic Data Analysis	PI	3	3	9	100% roll over from SA #5
21.3	Signal Warrant Study	LS	1	0	0	
21.4	System Timings	LS	1	0	0	
21.5	Reference and Master Signalization Design File	PI	3	20	60	Design effort for designing HAWKS at 3 locations (rollover from SA #5)
21.6	Reference and Master Interconnect Communication Design File	LS	1	0	0	
21.7	Overhead Street Name Sign Design	EA	1	2	2	Pedestrian Crosswalk overhead sign
21.8	Pole Elevation Analysis	LS	1	4	4	design pole elevations due to current approved profile; 2 hours for first intersection/location, 1 hr x 2 additional (100% roll over from SA #5)
21.9	Traffic Signal Operation Report	LS	1	0	0	
21.10	Quantities	LS	1	16	16	Quantities for 3 intersections (100% roll over from SA #5)
21.11	Cost Estimate	LS	1	0	0	
21.12	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
21.13	Other Signalization Analysis	LS	1	0	0	
Signalization Analysis Technical Subtotal					95	
21.14	Field Reviews	LS	1	12	12	Field Review by EOR plus travel (100% roll over from SA #5) Does not include time for participation in Test Holes for mast arms - District will perform, does not have EOR in field.
21.15	Technical Meetings	LS	1	14	14	Meetings are listed below
21.16	Quality Assurance/Quality Control	LS	%	5%	5	
21.17	Independent Peer Review	LS	%	0%	0	

Project Activity 21: Signalization Analysis

21.18	Supervision	LS	%	5%	5	
Signalization Analysis Nontechnical Subtotal					36	
21.19	Coordination	LS	%	2%	3	
21. Signalization Analysis Total					134	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
FDOT Traffic Operations	EA	1	4	4	100% roll over from SA #5		0
FDOT Traffic Design	EA	0	0	0			0
Power Company (service point coordination)	EA	1	1	1	Finalize Power service coordination with Keys Energy (calls)		0
Maintaining Agency (cities, counties)	EA	1	3	3	Meeting with City (virtual)		0
Railroads	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				8		Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	2	3	6	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				14		Total Project Manager Meetings (carries to Tab 3)	0

Carries to 21.15

Carries to Tab 3

Project Activity 22: Signalization Plans

Estimator: Christopher Dew, PE, PTOE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station
250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
22.1	Key Sheet		Sheet	1	4	1	4	Key Sheet is new item, originally no signal plans - Update sheet description and numbers, new format (100% roll over from SA #5)
22.2	Summary of Pay Items Including Designer Interface Input		Sheet	0	0	0	0	
22.3	Tabulation of Quantities		Sheet	1	10	1	10	New item to plans -Tabulation of Quantity sheet preparation (100% roll over from SA #5)
22.4	General Notes/Pay Item Notes		Sheet	1	2	1	2	General Notes, new item (100% roll over from SA #5)
22.5	Plan Sheet		Sheet	3	4	3	12	3 HAWK signal plan sheets (100% roll over from SA #5)
22.6	Interconnect Plans		Sheet	0	0	0	0	
22.7	Traffic Monitoring Site		EA	0	0		0	
22.8	Guide Sign Worksheet		EA	1	1		1	Guide sign worksheet, for sign on HAWK
22.9	Special Details		Sheet	2	3	2	6	Controller Cabinet Installation Detail; Service Point details for HAWK (100% roll over from SA #5)
22.10	Special Service Point Details		EA	1	4	1	4	Update service point detail pending coordination with Keys Electric, one detail for all 3 HAWKS (100% roll over from SA #5)
22.11	Mast Arm/Monotube Tabulation Sheet		PI	3	2	1	6	Mast Arm Tabulation sheets for 3 intersections (was missing from SA #5)
22.12	Strain Pole Schedule		PI	0	0		0	
22.13	TTCP Signal		EA	0	0		0	
22.14	Temporary Detection Sheet		PI	0	0		0	
22.15	Utility Conflict Sheet		Sheet	1	6	1	6	Soft dig information
22.16	Interim Standards		LS	1	0		0	
Signalization Plans Technical Subtotal						11	51	
22.17	Quality Assurance/Quality Control		LS	%	5%		3	
22.18	Supervision		LS	%	5%		3	
22. Signalization Plans Total						11	57	

31. Architecture Development

Estimator: Eduardo L. Martinez, PE

SR A1A/S. Roosevelt M&R w/ Widening & Addition of Pump Station
250548-4-52-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Architectural Plans								
31.1	Architectural Program Review/Verification		Text Pages	0	0	0	0	
31.2	Key Sheet and Index of Sheets		Sheet	0	0	0	0	
31.3	General Notes, Abbreviations, Symbols, and Legend		Sheet	0	0	0	0	
31.4	Life Safety Plans		Sheet	0	0	0	0	
31.5	Site Plans		Sheet	0	0	0	0	
31.6	Floor Plans (Small Scale)		Sheet	0	0	0	0	
31.7	Floor Plans (Large Scale)		Sheet	0	0	0	0	
31.8	Exterior Elevations		Sheet	0	0	0	0	
31.9	Roof Plans		Sheet	0	0	0	0	
31.10	Roof Details		Sheet	0	0	0	0	
31.11	Interior Elevations		Sheet	0	0	0	0	
31.12	Rest Room Plans (Enlarged)		Sheet	0	0	0	0	
31.13	Rest Room Elevations		Sheet	0	0	0	0	
31.14	Building Sections		Sheet	0	0	0	0	
31.15	Stair Section, Enlarged Stair Plan and Details		Sheet	0	0	0	0	
31.16	Reflective Ceiling Plans		Sheet	0	0	0	0	
31.17	Room Finish Schedule or Finish Plan		Sheet	0	0	0	0	
31.18	Door and Window Schedule		Sheet	0	0	0	0	
31.19	Door Jamb Details and Window Details		Sheet	0	0	0	0	
31.20	Exterior Wall Sections		Sheet	0	0	0	0	
31.21	Interior Wall Sections		Sheet	0	0	0	0	
31.22	Overhead Door Details		Sheet	0	0	0	0	

31. Architecture Development

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
31.23	Curtain Wall Details		Sheet	0	0	0	0	
31.24	Fascia, Soffit and Parapet Details		Sheet	0	0	0	0	
31.25	Signage Details		Sheet	0	0	0	0	
31.26	Miscellaneous Details		Sheet	0	0	0	0	
31.27	Repetitive Sheets		Sheet	0	0	0	0	
31.28	Design Narrative Reports		LS	0	0		0	
31.29	Permitting		LS	0	0		0	
31.30	Other Pertinent Project Documentation		LS	0	0		0	
31.31	Cost Estimate		LS	0	0		0	
31.32	Technical Special Provisions and Modified Special Provisions Packages		LS	0	0		0	
Architectural Plans Technical Subtotal						0	0	
31.33	Field Reviews		LS	1	0		0	
31.34	Technical Meetings							Meetings are listed below
31.34.1	FDOT		EA	0	0		0	
31.34.2	Local Governments (cities)		EA	0	0		0	
31.34.3	Local Governments (counties)		EA	0	0		0	
31.34.4	Other Meetings		EA	0	0		0	
31.34.5	Progress Meetings		EA	0	0		0	
31.34.6	Phase Review Meetings		EA	0	0		0	
31.34.7	Subtotal Technical Meetings						0	
31.35	Quality Assurance/Quality Control		LS	%	0%		0	
31.36	Independent Peer Review		LS	%	0%		0	
31.37	Supervision		LS	%	0%		0	
Architectural Plans Total						0	0	
Structural Plans								
31.38	General Notes, Abbreviations, Symbols, and Legend		Sheet	0	0	0	0	
31.39	Foundation Plans (Small Scale)		Sheet	0	0	0	0	
31.40	Foundation Plans (Large Scale)		Sheet	0	0	0	0	
31.41	Slab Plans (Small Scale)		Sheet	0	0	0	0	

31. Architecture Development

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
31.42	Slab Plans (Large Scale)		Sheet	0	0	0	0	
31.43	Slab Placement Plans		Sheet	0	0	0	0	
31.44	Slab Placement Details		Sheet	0	0	0	0	
31.45	Foundation Sections		Sheet	0	0	0	0	
31.46	Foundation Details		Sheet	0	0	0	0	
31.47	Slab Sections		Sheet	0	0	0	0	
31.48	Slab Details		Sheet	0	0	0	0	
31.49	Roof Framing Plans (Small Scale)		Sheet	0	0	0	0	
31.50	Roof Framing Plans (Large Scale)		Sheet	0	0	0	0	
31.51	Roof Loading Plans and Details		Sheet	0	0	0	0	
31.52	Roof Sections		Sheet	0	0	0	0	
31.53	Roof Details		Sheet	0	0	0	0	
31.54	Bearing Wall Sections		Sheet	0	0	0	0	
31.55	Bearing Wall Details		Sheet	0	0	0	0	
31.56	Column Sections		Sheet	0	0	0	0	
31.57	Column Details		Sheet	0	0	0	0	
31.58	Miscellaneous Sections		Sheet	0	0	0	0	
31.59	Repetitive Sheets		Sheet	0	0	0	0	
31.60	Other Pertinent Project Documentation		LS	1	0		0	
31.61	Cost Estimate		LS	1	0		0	
31.62	Technical Special Provisions and Modified Special Provisions Packages		LS	1	0		0	
Structural Plans Technical Subtotal						0	0	
31.63	Field Reviews		LS	1	0		0	
31.64	Technical Meetings							Meetings are listed below
31.64.1	FDOT		EA	0	0		0	
31.64.2	Local Governments (cities)		EA	0	0		0	
31.64.3	Local Governments (counties)		EA	0	0		0	
31.64.4	Other Meetings		EA	0	0		0	

31. Architecture Development

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
31.64.5	Progress Meetings		EA	0	0		0	
31.64.6	Phase Review Meetings		EA	0	0		0	
31.64.7	Subtotal Technical Meetings						0	
31.65	Quality Assurance/Quality Control		LS	%	0%		0	
31.66	Independent Peer Review		LS	%	0%		0	
31.67	Supervision		LS	%	0%		0	
Structural Plans Total						0	0	
Mechanical Plans								
31.68	General Notes, Abbreviations, Symbols, Legend, and Code Issues		Sheet	0	0	0	0	
31.69	Plans (Small Scale)		Sheet	0	0	0	0	
31.70	Plans (Large Scale)		Sheet	0	0	0	0	
31.71	Details		Sheet	0	0	0	0	
31.72	Sections		Sheet	0	0	0	0	
31.73	Piping Schematics		Sheet	0	0	0	0	
31.74	Control Plans		Sheet	0	0	0	0	
31.75	Schedules		Sheet	0	0	0	0	
31.76	HVAC Calculations		Sheet	0	0	0	0	
31.77	Life Cycle Cost Analysis		Sheet	0	0	0	0	
31.78	Repetitive Sheets		LS	1	0		0	
31.79	Other Pertinent Project Documentation		LS	1	0		0	
31.80	Cost Estimate		LS	1	0		0	
31.81	Technical Special Provisions and Modified Special Provisions Packages		LS	1	0		0	
Mechanical Plans Technical Subtotal						0	0	
31.82	Field Reviews		LS	1	0		0	
31.83	Technical Meetings							Meetings are listed below
31.83.1	FDOT		EA	0	0		0	
31.83.2	Local Governments (cities)		EA	0	0		0	
31.83.3	Local Governments (counties)		EA	0	0		0	
31.83.4	Other Meetings		EA	0	0		0	

31. Architecture Development

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
31.83.5	Progress Meetings		EA	0	0		0	
31.83.6	Phase Review Meetings		EA	0	0		0	
31.83.7	Subtotal Technical Meetings						0	
31.84	Quality Assurance/Quality Control		LS	%	0%		0	
31.85	Independent Peer Review		LS	%	0%		0	
31.86	Supervision		LS	%	0%		0	
Mechanical Plans Total						0	0	
Plumbing Plans								
31.87	General Notes, Abbreviations, Symbols, Legend, and Code Issues		Sheet	0	0	0	0	
31.88	Plans (Small Scale)		Sheet	0	0	0	0	
31.89	Plans (Large Scale)		Sheet	0	0	0	0	
31.90	Isometrics (Large Scale)		Sheet	0	0	0	0	
31.91	Riser Diagrams		Sheet	0	0	0	0	
31.92	Details		Sheet	0	0	0	0	
31.93	Repetitive Sheets		Sheet	0	0	0	0	
31.94	Other Pertinent Project Documentation		LS	1	0		0	
31.95	Cost Estimate		LS	1	0		0	
31.96	Technical Special Provisions and Modified Special Provisions Packages		LS	1	0		0	
Plumbing Plans Technical Subtotal						0	0	
31.97	Field Reviews		LS	1	0		0	
31.98	Technical Meetings							Meetings are listed below
31.98.1	FDOT		EA	0	0		0	
31.98.2	Local Governments (cities)		EA	0	0		0	
31.98.3	Local Governments (counties)		EA	0	0		0	
31.98.4	Other Meetings		EA	0	0		0	
31.98.5	Progress Meetings		EA	0	0		0	
31.98.6	Phase Review Meetings		EA	0	0		0	
31.98.7	Subtotal Technical Meetings						0	
31.99	Quality Assurance/Quality Control		LS	%	0%		0	

31. Architecture Development

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
31.100	Independent Peer Review		LS	%	0%		0	
31.101	Supervision		LS	%	0%		0	
Plumbing Plans Total						0	0	
Fire Protection Plans								
31.102	General Notes, Abbreviations, Symbols, Legend, and Code Issues		Sheet	0	0	0	0	
31.103	Fire Protection Plan		Sheet	0	0	0	0	
31.104	Riser Diagram, Details, and Partial Plans		Sheet	0	0	0	0	
31.105	Hydraulic Calculation		Sheet	0	0	0	0	
31.106	Repetitive Sheets		Sheet	0	0	0	0	
31.107	Other Pertinent Project Documentation		LS	1	0		0	
31.108	Cost Estimate		LS	1	0		0	
31.109	Technical Special Provisions and Modified Special Provisions Packages		LS	1	0		0	
Fire Protection Plans Technical Subtotal						0	0	
31.110	Field Reviews		LS	1	0		0	
31.111	Technical Meetings							Meetings are listed below
31.111.1	FDOT		EA	0	0		0	
31.111.2	Local Governments (cities)		EA	0	0		0	
31.111.3	Local Governments (counties)		EA	0	0		0	
31.111.4	Other Meetings		EA	0	0		0	
31.111.5	Progress Meetings		EA	0	0		0	
31.111.6	Phase Review Meetings		EA	0	0		0	
31.111.7	Subtotal Technical Meetings						0	
31.112	Quality Assurance/Quality Control		LS	%	0%		0	
31.113	Independent Peer Review		LS	%	0%		0	
31.114	Supervision		LS	%	0%		0	
Fire Protection Plans Total						0	0	
Electrical Plans								
31.115	General Notes, Abbreviations, Symbols, Legend, and Code Issues		Sheet	2	2	2	4	There are specific project notes, Legend and Symbols that are not found within the typical FDOT General Notes and Symbols.
31.116	Electrical Site Plan		Sheet	2	20	2	40	Given the 11x17 sheet size, the first sheet is dedicated for the Electrical Site Plan. The second sheet is dedicated for the Enlargement Site Plan in which all the conduit layout is shown as well as the description for every run.

31. Architecture Development

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
31.117	Lighting Plans		Sheet	0	0	0	0	
31.118	Lighting Fixtures Schedules		Sheet	0	0	0	0	
31.119	Lighting Fixtures Details		Sheet	0	0	0	0	
31.120	Lightning Protection Plans		Sheet	0	0	0	0	As per Department indication a lightning strike will be considered a mayor event/repair for the pump station system within the ongoing MMOA FDOT-Key West and the Department of Transportation. The Department will be responsible for the cost/repair of extensive damage
31.121	Lightning Protection Details		Sheet	0	0	0	0	As per Department indication a lightning strike will be considered a mayor event/repair for the pump station system within the ongoing MMOA FDOT-Key West and the Department of Transportation. The Department will be responsible for the cost/repair of extensive damage
31.122	Power Plans		Sheet	2	30	2	60	Electrical equipment layout Sections A & B showing actual equipment layout and size, required conduits and respective sizes.
31.123	Power Distribution Riser Diagrams		Sheet	1	20	1	20	Includes ATS, Generator and Panel Schedules. Calculation and coordination of the service with Utility Company. Overcurrent protection devices and arc flash calculations, wire size calculation and panel schedule for miscellaneous loads.
31.124	Stand-by Generator		LS	1	32	1	32	Calculation of Generator size.
31.125	Data Plans		Sheet	8	10	8	80	Power & Control Wiring, Schematic Controls for Pump Motor Control Panel and VFDs and RTU wiring Diagram
31.126	Data Details		Sheet	0	0	0	0	
31.127	Communication Plans		Sheet	0	0	0	0	
31.128	Communication Details		Sheet	0	0	0	0	
31.129	Security Alarm System Plans		Sheet	0	0	0	0	
31.130	Miscellaneous Details		Sheet	1	8	1	8	These are the specific electrical details included in Pump Stations: back-up float switches level diagram, Pump Motor Connection Box and Control Junction Box details for transtion from classified environment to normal environment, SCADA Antenna Mounting Detail and Valve Vault Sump Pump installation details.
31.131	Repetitive Sheets		LS	0	0		0	
31.132	Energy Analysis		LS	0	0		0	
31.133	Other Pertinent Project Documentation		LS	0	0		0	
31.134	Cost Estimate		LS	1	24		24	Construction Cost Estimate for 90% and 100% submittals. This includes coordination with manufacturers. Cost varies along the design process as field conditions and entity requirement vary.
31.135	Technical Special Provisions and Modified Special Provisions Packages		LS	1	50		50	Prepare Electrical Specifications.
Electrical Plans Technical Subtotal						17	318	
31.136	Field Reviews		LS	1	16		16	One field visit x two people including traveling time
31.137	Technical Meetings							Meetings are listed below
31.137.1	FDOT		EA	0	0		0	
31.137.2	Local Governments (cities)		EA	1	16		16	Two people (including travel time) Includes Utility Company meeting

31. Architecture Development

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
31.137.3	Local Governments (counties)		EA	0	0		0	
31.137.4	Other Meetings		EA	0	0		0	
31.137.5	Progress Meetings		EA	0	0		0	
31.137.6	Phase Review Meetings		EA	2	2		4	Virtual meetings for 90% and 100% submittals.
31.137.7	Subtotal Technical Meetings						20	
31.138	Quality Assurance/Quality Control		LS	%	5%		16	
31.139	Independent Peer Review		LS	%	0%		0	
31.140	Supervision		LS	%	5%		16	
Electrical Plans Total						17	386	
Architecture Development Subtotal						17	386	
31.141	LEED Certification		LS	1	0		0	
31.142	Coordination		LS	%	2%		8	
31.143	Building Information Modeling (BIM)		Project	--	--	--	--	Using AutoCad Revit or a similar program for the production of construction documents does not cost the Client/Owner any additional design fee. However, the proportion of the fee is more front loaded because of the design process. The creation of the 3D model is part of the design and must be converted into 2D to print the construction documents. The additional use of the Virtual 3D model can provide additional advantages and services, but at an additional cost. Another very useful feature is the user's ability to visualize the spaces in 3D early on as part of the approval process.
31. Architecture Development Total						17	394	

Total Technical Meetings (sum of meetings above)									Comments	PM Attendance at Meeting Required?	Number	
Meeting	Hours						Total Meetings	Total Hours				
	Architectural Plans	Structural Plans	Mechanical Plans	Plumbing Plans	Fire Protection Plans	Electrical Plans						
FDOT	0	0	0	0	0	0	0	0			0	
Local Governments (cities)	0	0	0	0	0	16	1	16			0	
Local Governments (counties)	0	0	0	0	0	0	0	0			0	
Other Meetings	0	0	0	0	0	0	0	0			0	
Subtotal Technical Meetings							1	16			Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	0	0	0	0	0	0	0	0		**	--	
Phase Review Meetings	0	0	0	0	0	4	2	4		**	--	
Total All Meetings							3	20			Total PM Meetings (carries to Tab 3)	0

** Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3

Carries to Tab 3