

## Indian Creek Drive from 26<sup>th</sup> Street to 41<sup>st</sup> Interim Construction Phase

### Scope of Work– Ribbeck Engineering

December 20<sup>th</sup>, 2016

The Scope of Services of this consists of developing a set of construction plans for approximately 1.47 miles of roadway which includes 0.75 miles along Indian Creek Drive from 26<sup>th</sup> Street to 41<sup>st</sup> Street and 0.72 miles along side streets including the following: 0.09 miles along 28<sup>th</sup> Street, 0.08 miles along 29<sup>th</sup> Street, 0.09 miles along 30<sup>th</sup> Street, 0.06 miles along 32<sup>nd</sup> Street, 0.05 miles along 34<sup>th</sup> Street, 0.05 miles along 35<sup>th</sup> Street, 0.08 miles along 38<sup>th</sup> Street, 0.05 miles along 41<sup>st</sup> Street, 0.06 miles along Collins Avenue from 31<sup>st</sup> Street to 32<sup>nd</sup> Street, 0.11 miles along Collins Avenue from 36<sup>th</sup> Street to 38<sup>th</sup> Street, and Collins Avenue from 26<sup>th</sup> Street to 27<sup>th</sup> Street. The construction plans include roadway restoration, traffic control plans, drainage, signing & pavement markings, and signalization components. In addition, coordination with key stakeholders is included. The interim construction plans are required in order to construct a 72" main trunk along Indian Creek Drive as well as to provide drainage improvements along the aforementioned side streets by upsizing the drainage line to 24". The interim construction plans will follow FDOT design criteria as well as City of Miami Beach contract requirements.

The Scope of Services for this task includes the following:

#### **Project General Task**

- None under this Task. Hours have been included under RFP and Management Supplemental Task.

#### **Roadway Analysis and Plans:**

- Roadway restoration analysis and plans
- Drainage Plan and Profile Sheets
- Traffic Control analysis and plans
- Roadway Quantity take off and summary of pay items in compliance with FDOT Basis of Estimates
- Field Reviews
- Roadway analysis coordination with FDOT
- Roadway coordination with Contractor.

#### **Drainage Analysis and Plans:**

- Design of Storm Drains including the evaluation and analysis of 100 new drainage structures within Indian Creek Drive mainline to be build (to meet interim condition and to later transition into ultimate condition) for the new 72" trunk-line and 50 additional new drainage structures within side streets from Collins Avenue to Indian Creek Drive for the 24" pipe upsize working under gravity flow conditions.

- Temporary Drainage Analysis including the evaluation to maintain drainage during construction as well the drainage interim phase between the newly constructed 72" trunk-line and the existing side-street drainage.
- Drainage coordination with Contractor during construction and field reviews.
- Drainage Map
- Drainage Quantity take off and summary of drainage structures in compliance with FDOT Basis of Estimates.
- Drainage calculations
- Permit Set for SFWMD and DERM
- Miscellaneous Drainage Details
- Optional Pipe Material
- Drainage Structure Sheets

**Utility Coordination:**

- Utility Coordination with UAO's

**Signing and Pavement Markings Analysis and Plans:**

- Signing and pavement markings analysis and plans for roadway restoration after drainage improvement construction as per MUTCD and FDOT criteria.

**Signalization Analysis and Plans:**

- Signalization analysis and plans for roadway restoration after drainage improvement construction as per MDCTS&S Division and FDOT requirements including pedestrian signal features restoration pull boxes, conduits, loops, etc.



**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: 429228-2-58-01  
 FAP Number: TBD  
 Project Name: Indian Creek Drive from 26th Street to 41:  
 Name of Consultant: Ribbeck Engineering, Inc.  
 Date: 12/20/2016

WORK ACTIVITY	EMPLOYEE CLASSIFICATION													TOTAL STAFF HOURS		ON CADD PERCENT
	Hours from "Summary" sheet	Project Manager	Sr Project Engineer	Project Engineer	Sr. Engineer	Engineer Intern	Sr. Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	RANGE		
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	
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	721	144	144	144	72	144	73	0	0	0	0	0	0	0	721	793
5. Roadway Plans	634	0	0	127	0	253	254	0	0	0	0	0	0	0	634	697
6a. Drainage Analysis	516	103	0	0	413	0	0	0	0	0	0	0	0	0	516	568
6b. Drainage Plans	630	126	126	126	63	126	63	0	0	0	0	0	0	0	630	683
7. Utilities	40	0	0	0	0	0	40	0	0	0	0	0	0	0	40	44
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Structures - Misc. Tasks, Dvgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19. Signing & Pavement Marking Analysis	210	42	42	42	21	42	21	0	0	0	0	0	0	0	210	231
20. Signing & Pavement Marking Plans	114	0	0	23	0	46	46	0	0	0	0	0	0	0	115	127
21. Signalization Analysis	59	12	12	12	6	11	6	0	0	0	0	0	0	0	59	65
22. Signalization Plans	26	0	0	5	0	10	11	0	0	0	0	0	0	0	26	28
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 Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. Landscape Architecture 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
<b>TOTALS</b>	<b>2,950</b>	<b>427</b>	<b>324</b>	<b>479</b>	<b>575</b>	<b>632</b>	<b>514</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,951</b>	<b>3,247</b>	<b>0</b>

Field Survey Estimate:  
 0 4-man crew days

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 63 to 06 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: 429228-2-58-01      Date: 12/20/2016      Project Name: Indian Creek Drive from 26th Street to 41st Street  
 FAP Number: TBD      Name of Consultant: Ribbeck Engineering, Inc.

Task Description	Hours from Summary Sheet Firm Total	Staff Hour Distribution Percentages - Firm Total											Total				
		Project Manager	Sr Project Engineer	Project Engineer	Sr. Engineer	Engineer Intern	Sr. Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11		Staff Classification 12			
3. Project General and Project Common Tasks	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%	0.0%	0.0%	0.0%	0.0%
4. Roadway Analysis	724	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	634	0.0%	0.0%	20.0%	0.0%	40.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	516	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6b. Drainage Plans	630	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
7. Utilities	40	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%	0.0%	0.0%	100.00%
8. Environmental Permits, Compliance & Clearances	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%	0.0%	0.0%	0.0%	0.00%
9. Structures - Misc. Tasks, Dwg, Non-Tech.	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%	0.0%	0.0%	0.0%	0.00%
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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	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%	0.0%	0.0%	0.0%	0.00%
19. Signaling & Pavement/Marking Analysis	210	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
20. Signaling & Pavement/Marking Plans	114	0.0%	0.0%	20.0%	0.0%	40.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
21. Signalization Analysis	59	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
22. Signalization Plans	26	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%	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%	0.0%	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%	0.0%	0.0%	0.0%	0.00%
25. Landscape Architecture 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%	0.0%	0.0%	0.0%	0.00%
26. Landscape Architecture 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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	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%	0.0%	0.0%	0.0%	0.00%

**ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: Indian Creek Drive from 26th Street to 41st Street - Interim Phase 2  
 County: Miami-Dade  
 FPN: 429228-2-58-01  
 FAP No.: TBD

Consultant Name: Ribbeck Engineering, Inc.  
 Consultant No.: F-28-0460464  
 Date: 12/20/2016

Estimator: Carlos Ribbeck, P.E.

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Sr Project Engineer	Project Engineer	Sr. Engineer	Engineer Intern	Sr. Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	0	\$55.00	\$58.00	\$58.00	\$60.00	\$31.00	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0	#DIV/0!
4. Roadway Analysis	721	144	144	144	72	144	73	0	0	0	0	0	0	721	\$36,385	\$50.46
5. Roadway Plans	634	0	0	127	0	253	264	0	0	0	0	0	0	634	\$21,305	\$33.60
6a. Drainage Analysis	516	103	0	413	0	0	0	0	0	0	0	0	0	516	\$31,475	\$61.00
6b. Drainage Plans	630	126	126	126	63	126	63	0	0	0	0	0	0	630	\$31,815	\$50.50
7. Utilities	40	0	0	0	0	0	40	0	0	0	0	0	0	40	\$1,000	\$25.00
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwg's, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
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	210	42	42	42	21	42	21	0	0	0	0	0	0	210	\$10,605	\$50.50
19. Signing & Pavement Marking Analysis	114	0	0	23	0	46	46	0	0	0	0	0	0	115	\$3,864	\$33.60
20. Signing & Pavement Marking Plans	59	12	12	12	6	11	6	0	0	0	0	0	0	59	\$2,999	\$50.83
21. Signalization Analysis	26	0	0	5	0	10	11	0	0	0	0	0	0	26	\$865	\$33.27
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 Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture 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!
<b>Total Staff Hours</b>	<b>2,950</b>	<b>427</b>	<b>479</b>	<b>479</b>	<b>575</b>	<b>632</b>	<b>514</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,951</b>	<b>\$140,313.00</b>	<b>\$47.55</b>
<b>Total Staff Cost</b>		<b>\$27,755.00</b>	<b>\$18,782.00</b>	<b>\$26,824.00</b>	<b>\$34,500.00</b>	<b>\$19,592.00</b>	<b>\$12,830.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$140,313.00</b>	<b>\$47.55</b>

Survey Field Days by Subconsultant  
 4 - Person Crew

Notes:  
 1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.  
 2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

SALARY RELATED COSTS:  
 OVERHEAD: 163.76%  
 OPERATING MARGIN: 38.5%  
 FCCM (Facilities Capital Cost Money): 0.767%  
 EXPENSES: 4-man crew \$ / day

SUBTOTAL ESTIMATED FEE:  
 Survey (Field - if by Prime) 0  
 Subconsultant: Enter Name Sub 1 \$  
 Subconsultant: Sub 2 \$  
 Subconsultant: Sub 3 \$  
 Subconsultant: Sub 4 \$  
 Subconsultant: Sub 5 \$  
 Subconsultant: Sub 6 \$  
 Subconsultant: Sub 7 \$  
 Subconsultant: Sub 8 \$  
 Subconsultant: Sub 9 \$  
 Subconsultant: Sub 10 \$  
 Subconsultant: Sub 11 \$  
 Subconsultant: Sub 12 \$

SUBTOTAL ESTIMATED FEE: \$425,186.28  
 Geotechnical Field and Lab Testing \$0.00  
 Optional Services \$0.00  
 GRAND TOTAL ESTIMATED FEE: \$425,186.28

**Project Activity 4: Roadway Analysis**

Estimator: CR

Indian Creek Drive from 26th Street to 41st Street - Interim Phase 2  
429223-2-59-01

<b>Representing</b>	<b>Ribbeck Engineering</b>	<b>Signature / Date</b>
City of Miami Beach		
<b>Consultant Name</b>		

**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	
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	310	310	240 hrs/mile x 0.75 miles along mainline + 200 hrs/mile x 0.72mi of side streets (0.09mi (28 Street) + 0.06mi (29 Street) + 0.09mi (30 Street) + 0.06mi (32 Street) + 0.05mi (34 Street) + 0.05mi (35 Street) + 0.08 mi (38 Street) + 0.05mi (41 Street) + 0.06mi (Collins Ave from 31 Street to 32 Street) + 0.11mi (Collins Ave from 36 Street to 38 Street) = 240 hrs/mi x 0.75 + 180 hrs/mi x 0.72 = 310 hrs for restoration plans
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	0	0	
4.10	Traffic Control Analysis	LS	1	80	80	Level III - Mid Range = 80 hrs
4.11	Master TCP Design Files	LS	1	159	159	2 Phases x 1.47 miles x 54 hrs/mile = 165 hrs
4.12	Design Variations and Exceptions	LS	0	0	0	
4.13	Design Report	LS	1	0	0	
4.14	Quantities	LS	1	80	80	Low Range
4.15	Cost Estimate	LS	1	0	0	
4.16	Technical Special Provisions	LS	1	0	0	
4.17	Other Roadway Analyses	LS	1	0	0	
<b>Roadway Analysis Technical Subtotal</b>					<b>629</b>	
4.18	Field Reviews	LS	2	8	16	
4.19	Monitor Existing Structures	LS	1	0	0	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
4.20	Technical Meetings	LS	1	0	0	
4.21	Quality Assurance/Quality Control	LS	%	5%	31	
4.22	Independent Peer Review	LS	%	0%	0	
4.23	Supervision	LS	%	5%	31	
<b>Roadway Analysis Nontechnical Subtotal</b> 78						
4.24	Coordination	LS	%	2%	14	
<b>4. Roadway Analysis Total</b> 721						

Technical Meetings	Units	No of Units	Hours/Unit	Total Hours	PM Attendance at Meeting Required?	Number
Typical Section	EA	1	4	4	no	0
Pavement	EA	1	4	4	no	0
Access Management	EA	0	0	0		0
15% Line and Grade	EA	2	4	8	yes	1
Driveways	EA	0	0	0		0
Local Governments (cities, counties, MPO)	EA	2	4	8	yes	2
Work Zone Traffic Control	EA	0	0	0		0
30/60/90/100% Comment Review Meetings	EA	2	4	8	yes	3
Other Meetings	EA	0	0	0		0
<b>Subtotal Technical Meetings</b>				<b>32</b>	<b>Subtotal Project Manager Meetings</b>	<b>6</b>
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	--
<b>Total Meetings</b>				<b>32</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>6</b>

Carries to Tab 3

Carries to 4.17

**Project Activity 5: Roadway Plans**

Estimator:

Indian Creek Drive from 26th Street to 41st Street - Interim Phase 2  
429228-2-58-01

Representing	Project Engineer	Print Name	Signature / Date
City of Miami Beach			
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	8	8	
5.2	Summary of Pay Items Including Quantity Input		Sheet	2	16	32	
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	2	10	20	
5.3.2	Typical Section Details		EA		0	0	
5.4	General Notes/Pay Item Notes		Sheet	1	8	8	
5.5	Summary of Quantities Sheets		Sheet		0	0	
5.6	Project Layout		Sheet		0	0	
5.7	Plan/Profile Sheet		Sheet	18	6	108	18 Drainage Plan/Profile Plan Sheets (8 along mainline + 10 along side streets)
5.8	Profile Sheet		Sheet		0	0	
5.9	Plan Sheet		Sheet	18	4	72	18 Roadway Restoration Plan (8 along mainline + 10 along side streets)
5.10	Special Profile		Sheet		0	0	
5.11	Back-of-Sidewalk Profile Sheet		Sheet		0	0	
5.12	Interchange Layout Sheet		Sheet		0	0	
5.13	Ramp Terminal Details (Plan View)		Sheet		0	0	
5.14	Intersection Layout Details		Sheet		0	0	
5.15	Special Details		EA		0	0	
5.16	Cross-Section Pattern Sheet(s)		Sheet		0	0	

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 Sheet(s)		Sheet		0	0	
5.18	Cross Sections		EA		60	0	
5.19	Temporary Traffic Control Plan Sheets		Sheet	30	8	240	2 Phases x 15 sheet per phase (8 along mainline + 7 along some side streets) = 30 sheets x 8 hrs/sheet = 240 hrs
5.20	Temporary Traffic Control Cross Section Sheets		EA		0	0	
5.21	Temporary Traffic Control Detail Sheets		Sheet	10	8	80	TCP General Notes, Pedestrian Detours, Vehicle Detours, TCP typicals and phasing
5.22	Utility Adjustment Sheets		Sheet		0	0	
5.23	Selective Clearing and Grubbing Sheet(s)		Sheet		0	0	
5.24	Project Network Control Sheet(s)		Sheet	4	1	4	
5.25	Environmental Detail Sheets		Sheet		0	0	
5.26	Utility Verification Sheet(s) (SUE Data)		Sheet	1	4	4	
<b>Roadway Plans Technical Subtotal</b>						<b>576</b>	
5.27	Quality Assurance/Quality Control		LS	%	5%	29	
5.28	Supervision		LS	%	5%	29	
<b>5. Roadway Plans Total</b>						<b>634</b>	

**Project Activity 6a: Drainage Analysis**

Estimator: CR

Indian Creek Drive from 28th Street to 41st Street - Interim Phase 2  
429228-2-58-01

Representing	Print Name	Signature / Date
City of Miami Beach		
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				
6a.2	Base Clearance Report	Per Location	0	0	0	
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	
6a.4	Design of Cross Drains	EA	0	0	0	
6a.5	Design of Ditches	Per Ditch Mile	0	0	0	
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	
6a.7	Design of Stormwater Management Facility (Roadside Ditch as Linear Pond)	Per Cell	0	0	0	
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	
6a.9	Design of Storm Drains	EA	150	2	300	Includes evaluation & analysis for 100-new drainage structures within Indian Creek mainline to be built (to meet interim condition and to later transition into ultimate condition) & 50-additional structures within side-streets from Collins Ave to Indian Creek Dr. for new 72" trunk-line construction along mainline & 24" pipe upsized along side streets working under gravity flow conditions
6a.10	Optional Culvert Material	EA	1	8	8	
6a.11	French Drain Systems	Per Cell	0	0	0	
6a.12	Drainage Wells	EA	0	0	0	
6a.13	Drainage Design Documentation Report	LS	1	0	0	
6a.14	Bridge Hydraulic Report	EA	0	0	0	

**Project Activity 6a: Drainage Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	1	80	80	Includes evaluation to maintain drainage during construction as well the drainage interphase between the newly constructed 72" trunk-line and the existing side-street drainage
6a.16	Cost Estimate	LS		0	0	
6a.17	Technical Special Provisions	LS		0	0	
6a.18	Other Drainage Analysis	LS		0	0	
<b>Drainage Analysis Technical Subtotal</b>					<b>388</b>	
6a.19	Field Reviews	LS	20	4	80	Coordination with contractor during construction - Estimated 20 field review meetings
6a.20	Technical Meetings	LS	1	0	0	Meetings are listed below
6a.21	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.22	Quality Assurance/Quality Control	LS	%	5%	19	
6a.23	Independent Peer Review	LS	%	0%	0	
6a.24	Supervision	LS	%	5%	19	
<b>Drainage Analysis Nontechnical Subtotal</b>					<b>118</b>	
6a.25	Coordination	LS	%	2%	10	
<b>6a. Drainage Analysis Total</b>					<b>516</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0		0
Pond Siting	EA	0	0	0		0
Agency	EA	0	0	0		0
Local Governments (cities, counties)	EA	0	0	0		0
FDOT Drainage	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
<b>Subtotal Technical Meetings</b>				<b>0</b>		<b>0</b>
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	--
<b>Total Meetings</b>				<b>0</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to 6.19

Carries to Tab 3

**6b. Drainage Plans**

Estimator: CR

Indian Creek Drive from 26th Street to 41st Street - Interim Phase 2  
429228-2-58-01

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)		Sheet	1	48	48	
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	
6b.3	Summary of Drainage Structures		Sheet	3	24	72	
6b.4	Optional Pipe/Culvert Material		Sheet	1	8	8	
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	100	3	300	
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	6	24	144	Drainage Detail Sheets: Pump Station Wet Pit (1), Outfall/Seawall Slot Structure (1), Pollution Control Structure (3) & Sluice Gate Details (1); Total= 6-Sheets
6b.7	Lateral Ditch Plan/Profile		Sheet	0	0	0	
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	
6b.9	Retention/Detention Ponds Detail Sheet(s)		Sheet	0	0	0	
6b.10	Retention Pond Cross Sections		EA	0	0	0	
6b.11	Erosion Control Plan Sheet(s)		Sheet	0	0	0	
6b.12	SWPPP Sheet(s)		Sheet	0	0	0	
			Drainage Plans Technical Subtotal			572	
6b.13	Quality Assurance/Quality Control		LS	%	5%	29	
6b.14	Supervision		LS	%	5%	29	
			6. Drainage Plans Total			630	

**Project Activity 7: Utilities**

Estimator:

Indian Creek Drive from 26th Street to 41st Street - Interim Phase 2  
429228-2-58-01

<b>Representing</b>	<b>Print Name</b>	<b>Signature / Date</b>
City of Miami Beach		
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		0	0	
7.2	Identify Existing Utility Agency Owners (UAO(s))	LS		0	0	
7.3	Make Utility Contacts	LS		0	0	
7.4	Exception Processing	LS		0	0	
7.5	Preliminary Utility Meeting	LS		0	0	
7.6	Individual/Field Meetings	LS		1	0	
7.7	Collect and Review Plans and Data from UAO(s)	LS		8	0	
7.8	Subordination of Easements Coordination	LS		0	0	
7.9	Utility Design Meeting	LS		0	0	
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS		0	0	
7.11	Utility Coordination/Followup	LS		0	0	
7.12	Utility Constructability Review	LS		0	0	
7.13	Additional Utility Services	LS		0	0	
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS		0	0	
7.15	Contract Plans to UAO(s)	LS		0	0	
7.16	Certification/Close-Out	LS		0	0	
7.17	Other Utilities	LS		1	40	Utility Coordination with UAO's
<b>7. Utilities Total</b>					<b>40</b>	

Project Activity 7: Utilities

Technical Meetings	Units	No. of Units	Hours/ Unit	Total Hours	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	0	0	0		0
Design Meeting (see 7.9)	EA	0	0	0		0
Other Meetings (this is automatically added into Utilities Total (cell F27))	EA	0	0	0		0
<b>Total Meetings:</b>				<b>0</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to Tab 3

**Project Activity 19: Signing and Pavement Marking Analysis**

Estimator: CR

Indian Creek Drive from 26th Street to 41st Street - Interim Phase 2  
429228-2-56-01

<b>Representing</b> City of Miami Beach	<b>Ribbeck Engineering</b>	<b>Signature / Date</b>
<b>Consultant Name</b>		

**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	
19.2	No Passing Zone Study	LS	1		0	
19.3	Reference and Master Design File	LS	1		0	
19.4	Multi-Post Sign Support Calculations	EA	1	118.2	118	30 hrs to set up + 60 hrs / mile x 1.47 miles = 118.2 hrs - Low Range
19.5	Sign Panel Design Analysis	EA	1		0	
19.6	Sign Lighting/Electrical Calculations	EA	1		0	
19.7	Quantities	LS	1	54	54	18 sheets (8 along mainline + 10 along side streets) x 3 hrs / sheet = 54 hrs
19.8	Cost Estimate	LS	1		0	
19.9	Technical Special Provisions	LS	1		0	
19.10	Other Signing and Pavement Marking	LS	1		0	
<b>Signing and Pavement Marking Analysis Technical Subtotal</b>					<b>172</b>	
19.11	Field Reviews	LS	1	16	16	
19.12	Technical Meetings	LS	1	0	0	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	9	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	9	
<b>Signing and Pavement Marking Analysis Nontechnical Subtotal</b>					<b>34</b>	
19.16	Coordination	LS	%	2%	4	
<b>19. Signing and Pavement Marking Analysis Total</b>					<b>210</b>	

**Project Activity 19: Signing and Pavement Marking Analysis**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		Number
						PM Attendance at Meeting Required?		
	Sign Panel Design	EA	1	0	0		no	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
	<b>Subtotal Technical Meetings</b>				<b>0</b>		<b>Subtotal Project Manager Meetings</b>	<b>0</b>
	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	--
	<b>Total Meetings</b>				<b>0</b>		<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to 19.12

Carries to Tab 3

**Project Activity 20: Signing and Pavement Marking Plans**

Estimator:

Indian Creek Drive from 26th Street to 41st Street - Interim Phase 2  
429228-2-58-01

<b>Representing</b>	<b>Signature / Date</b>
City of Miami Beach	
<b>Consultant Name</b>	

Ribbeck Engineering

**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	4	1	4	Low range
20.2	Summary of Pay Items Including TRNS-Port Input		LS	1	0		0	
20.3	Tabulation of Quantities		Sheet	3	8	3	24	12 hrs for first tabulation + 6 hrs for second tabulation sheet + 6 hrs for third tabulation sheet = 24 hrs
20.4	General Notes/Pay Item Notes		Sheet	1	4	1	4	
20.5	Project Layout		Sheet	0	0	0	0	
20.6	Plan Sheet		Sheet	18	4	18	72	18 sheets (8 along mainline + 10 along side streets)
20.7	Typical Details		EA	0	0		0	
20.8	Guide Sign Worksheet(s)		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	0	0		0	
20.13	Interim Standards		LS	0	0		0	
<b>Signing and Pavement Marking Plans Technical Subtotal</b>							<b>104</b>	
20.14	Quality Assurance/Quality Control		LS	%	5%		5	
20.15	Supervision		LS	%	5%		5	
<b>20. Signing and Pavement Marking Plans Total</b>							<b>23</b>	<b>114</b>

**Project Activity 21: Signalization Analysis**

Indian Creek Drive from 26th Street to 41st Street - Interim Phase 2  
429228-2-58-01

Estimator:

<b>Representing</b>	<b>Print Name</b>	<b>Signature / Date</b>
City of Miami Beach		
<b>Consultant Name</b>		

**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		0	
21.2	Traffic Data Analysis	PI	0		0	
21.3	Signal Warrant Study	LS	1		0	
21.4	System Timings	LS	1		0	
21.5	Reference and Master Signalization Design File	PI	2	22	44	Low range - 1 signalized intersection and 1 signalized crosswalk
21.6	Reference and Master Interconnect Communication Design File	LS	1		0	
21.7	Overhead Street Name Sign Design	EA	0		0	
21.8	Pole Elevation Analysis	LS	1		0	
21.9	Traffic Signal Operation Report	LS	1		0	
21.10	Quantities	LS	2	4	8	Low range - 1 signalized intersection and 1 signalized crosswalk
21.11	Cost Estimate	LS	1		0	
21.12	Technical Special Provisions	LS	1		0	
21.13	Other Signalization Analysis	LS	1		0	
<b>Signalization Analysis Technical Subtotal</b>						<b>52</b>
21.14	Field Reviews	LS	1	0	0	
21.15	Technical Meetings	LS	1	0	0	Meetings are listed below; Miami Dade County Signals
21.16	Quality Assurance/Quality Control	LS	%	5%	3	
21.17	Independent Peer Review	LS	%	0%	0	
21.18	Supervision	LS	%	5%	3	
<b>Signalization Analysis Nontechnical Subtotal</b>						<b>6</b>

Project Activity 21: Signalization Analysis

21.19	Coordination	LS	%	2%	1	
21. Signalization Analysis Total						59
Technical Meetings						
		Units	No of Units	Hours/Unit	Total Hours	PM Attendance at Meeting Required?
	FDOT Traffic Operations	EA	0	0	0	
	FDOT Traffic Design	EA	0	0	0	
	Power Company (service point coordination)	EA	0	0	0	
	Maintaining Agency (cities, counties)	EA	0	0	0	
	Railroads	EA	0	0	0	
	Other Meetings	EA	0	0	0	
	<b>Subtotal Technical Meetings</b>				<b>0</b>	<b>Subtotal Project Manager Meetings</b>
	Progress Meetings (fr 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>
	<b>Total Meetings</b>				<b>0</b>	<b>Total Project Manager Meetings: (carries to Tab 3)</b>
						<b>0</b>

Carries to Tab 3

Carries to 21.1.15

**Project Activity 22: Signalization Plans**

Estimator:

Indian Creek Drive from 26th Street to 41st Street - Interim Phase 2  
425228-2-58-01

Representing		Print Name		Signature / Date	
City of Miami Beach					
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	
22.2	Summary of Pay Items Including Designer Interface (TRNS-Port) Input		Sheet	0	0	0	0	
22.3	Tabulation of Quantities		Sheet	1	8	1	8	
22.4	General Notes/Pay Item Notes		Sheet	1	4	1	4	
22.5	Plan Sheet		Sheet	2	4	2	8	Low range - 1 signalized intersection and 1 signalized crosswalk
22.6	Interconnect Plans		Sheet	0	0	0	0	
22.7	Traffic Monitoring Site		EA	0	0		0	
22.8	Guide Sign Worksheet		EA	0	0		0	
22.9	Special Details		Sheet	0	0	0	0	
22.10	Special Service Point Details		EA	0	0		0	
22.11	Mast Arm/Monotube Tabulation Sheet		PI	0	0		0	
22.12	Strain Pole Schedule		PI	0	0		0	
22.13	TCP Signal (Temporary)		EA	0	0		0	
22.14	Temporary Detection Sheet		PI	0	0		0	
22.15	Utility Conflict Sheet		Sheet	0	0	0	0	
22.16	Interim Standards		LS	1	0		0	
				<b>Signalization Plans Technical Subtotal</b>		<b>5</b>	<b>24</b>	
22.17	Quality Assurance/Quality Control		LS	%	5%		1	
22.18	Supervision		LS	%	5%		1	
				<b>22. Signalization Plans Total</b>		<b>5</b>	<b>26</b>	

Indian Creek Drive from 26<sup>th</sup> Street to 41<sup>st</sup> Street RFP and Conceptual Plans Supplemental

Scope of Work Supplemental – Ribbeck Engineering

December 20<sup>th</sup>, 2016

The Scope of Services of this consists of developing a Request for Proposal Package (RFP) and Conceptual plans for approximately 0.85 miles of Indian Creek Drive. The conceptual plans include roadway, drainage, signing & pavement markings, and signalization. In addition, coordination with key stakeholders is included. The conceptual plans are required as reference to the Design Build criteria package and will be performed in accordance with FDOT design requirements. The RFP will include FDOT design criteria as well as City of Miami Beach contract requirements required by the Design-Build Firm to properly submit a response to the RFP

The Scope of Services for this Supplemental task includes the following:

**Project General Task**

- Additional hours for:
  - Progress and Coordination Meetings with City of Miami Beach
  - Coordination Meetings with Florida Department of Transportation (FDOT)
  - Coordination meetings with required discipline reviewers
  - Coordination meetings with key stakeholders.
  - Coordination with Geotechnical, Surveyor, Structure and Environmental Consultants providing services to the City of Miami Beach.
  - Plans review meetings and field review meetings.

**Roadway Analysis and Plans:**

- Design Variations memorandum and reports including crash data analysis and benefit cost ratios as requested by the Department for the following Design Elements:
  - Border Width Design Variation
  - Horizontal Alignment Design Variation
  - Superelevation Design Variation
  - Spacing between VPI's Design Variation
  - Sight Distance at Intersections (Index 546) Design Variation
  - Stopping Sight Distance Design Variation
  - Minimum Parking Restrictions Design Variation
  - Bicycle Lane Width Design Variation

**Project Staff Hour Summary**

Name of Consultant: Ribbeck Engineering, Inc.

Indian Creek Drive from 26th Street to 41st Street RFP and Conceptual Plans Supplemental  
429228-2-58-01

Activity No.	Activity	Enter Firm Name	Enter Name Sub 1	Project Staff Hours												Total Hours		
				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	160																160
4	Roadway Analysis	216																216
5	Roadway Plans	0																0
6a	Drainage Analysis	0																0
6b	Drainage Plans	0																0
7	Utilities	0																0
8	Env. Permits, Compliance & Clearances	0																0
9	Structures - Summary, Misc. Tasks, Dwgs.	0																0
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	0																0
19	Signing & Pavement Marking Analysis	0																0
20	Signing & Pavement Marking Plans	0																0
21	Signalization Analysis	0																0
22	Signalization Plans	0																0
23	Lighting Analysis	0																0
24	Lighting Plans	0																0
25	Landscape Architecture Analysis	0																0
26	Landscape Architecture 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																0
32	Noise Barriers Impact Design Assessment	0																0
33	ITS Analysis	0																0
34	ITS Plans	0																0
35	Geotechnical	0																0
	<b>Project Total</b>	<b>376</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>376</b>
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: 429228-2-58-01

FAP Number: TBD

Project Name: Indian Creek Drive from 26th Street to 41;

Name of Consultant: Ribbeck Engineering, Inc.

Date: 11/10/2016

WORK ACTIVITY	EMPLOYEE CLASSIFICATION											TOTAL STAFF HOURS		ON CADD PERCENT			
	Hours from "Summary" sheet	Firm Total Hours	Project Manager Hours	Sr Project Engineer Hours	Project Engineer Hours	Sr. Engineer Hours	Engineer Intern Hours	Sr. Designer Hours	Staff Classification 7 Hours	Staff Classification 8 Hours	Staff Classification 9 Hours	Staff Classification 10 Hours	Staff Classification 11 Hours		Staff Classification 12 Hours	RANGE	
																MIN	MAX
3. Project General and Project Common Tasks	160	160	0	0	0	0	0	0	0	0	0	0	0	0	0	160	176
4. Roadway Analysis	216	43	43	43	22	43	22	0	0	0	0	0	0	0	0	216	238
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6a. Drainage Analysis	0	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	0
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Structures - Misc. Tasks, Dvgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Structures - Bridge Development Report	0	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	0
12. Structures - Short Span Concrete Bridge	0	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	0
14. Structures - Structural Steel Bridge	0	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	0
16. Structures - Movable Span	0	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	0
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19. Signing & Pavement Marking Analysis	0	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	0
21. Signalization Analysis	0	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	0
23. Lighting Analysis	0	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	0
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. Landscape Architecture Plans	0	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	0
28. Photogrammetry	0	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	0
30. Terrestrial Mobile LIDAR	0	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	0
32. Noise Barriers Impact Design Assessment	0	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	0
34. Intelligent Transportation Systems Plans	0	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	0
<b>TOTALS</b>	376	203	43	43	22	43	22	0	0	0	0	0	0	0	0	376	414

Field Survey Estimate: 0 4-man crew days

- Notes:
- This worksheet provides the distribution of a firm's total staff hours for a project.
  - Percentages for staff hour distribution by classification are entered below in rows 63 to 96 of this sheet.
  - 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.
  - 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: 429228-2-58-01  
 FAP Number: TBD  
 Date: 11/10/2016  
 Name of Consultant: Ribbeck Engineering, Inc.

Project Name: Indian Creek Drive from 26th Street to 41st Street  
 Name of Consultant: Ribbeck Engineering, Inc.

Task	Hours from "Summary" Sheet Firm Total	Staff Hour Distribution Percentages - Firm Total												
		Project Manager	Sr Project Engineer	Project Engineer	Sr. Engineer	Engineer Intern	Sr. Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	Total
3. Project General and Project Common Tasks	160	100.0%	0.0%	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	246	20.0%	20.0%	20.0%	10.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	0	0.0%	0.0%	20.0%	0.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	0	20.0%	0.0%	0.0%	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6b. Drainage 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%	100.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
8. Environmental Permits, Compliance & Clearances	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%	100.00%
9. Structures - Misc. Tasks, Dugs, Non-Tech.	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%	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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
18. Structures - Miscellaneous	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%	100.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	60.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	20.0%	0.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
21. Signalization Analysis	0	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%
22. Signalization Plans	0	0.0%	20.0%	0.0%	0.0%	40.0%	0.0%	0.0%	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%	100.00%
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%	100.00%
25. Landscape Architecture 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%	100.00%
26. Landscape Architecture 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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%
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%	100.00%

**ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: Indian Creek Drive from 26th Street to 41st Street RFP and Conceptual Plans Supplemental  
 County: Miami-Dade  
 FPN: 429228-2-58-01  
 TAP No.: TBD

Consultant Name: Ribbeck Engineering, Inc.  
 Consultant No.: F-26-0460464  
 Date: 11/10/2016

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Sr Project Engineer	Project Engineer	Sr. Engineer	Engineer Intern	Sr. Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	180	180	0	0	0	0	0	0	0	0	0	0	0	160	\$10,400	\$58.00
4. Roadway Analysis	216	43	43	43	22	43	22	0	0	0	0	0	0	216	\$10,900	\$50.46
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dvgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
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 Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture 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!
<b>Total Staff Hours</b>	<b>376</b>	<b>203</b>	<b>43</b>	<b>43</b>	<b>22</b>	<b>43</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>376</b>	<b>\$21,300.00</b>	<b>\$56.65</b>
<b>Total Staff Cost</b>		<b>\$13,195.00</b>	<b>\$2,494.00</b>	<b>\$2,409.00</b>	<b>\$1,320.00</b>	<b>\$1,333.00</b>	<b>\$550.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$21,300.00</b>	<b>\$56.65</b>

Survey Field Days by Subconsultant  
 4 - Person Crew

Notes:  
 1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.  
 2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

SALARY RELATED COSTS:  
 OVERHEAD: 163.76%  
 OPERATING MARGIN: 36.5%  
 FCCM (Facilities Capital Cost Money): 0.767%  
 EXPENSES:  
 Survey (Field - if by Prime) 0  
 SUBTOTAL ESTIMATED FEE: 4-man crew days @ \$ / day  
 Subconsultant: Enter Name Sub 1  
 Subconsultant: Sub 2  
 Subconsultant: Sub 3  
 Subconsultant: Sub 4  
 Subconsultant: Sub 5  
 Subconsultant: Sub 6  
 Subconsultant: Sub 7  
 Subconsultant: Sub 8  
 Subconsultant: Sub 9  
 Subconsultant: Sub 10  
 Subconsultant: Sub 11  
 Subconsultant: Sub 12  
 SUBTOTAL ESTIMATED FEE:  
 Geotechnical Field and Lab Testing \$64,544.75  
 Optional Services \$0.00  
 GRAND TOTAL ESTIMATED FEE: \$64,544.75

**Project Activity 3: General Tasks**

Estimator: CR

Indian Creek Drive from 26th Street to 41st Street RFP and Conceptual Plans Supplemental  
429228-2-58-01

<b>Representing</b>	<b>Print Name</b>	<b>Signature / Date</b>
City of Miami Beach		
<b>Consultant Name</b>		

**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	
3.1.2	Notifications	LS	1	0	0	
3.1.3	Prepare Mailing Lists	LS	1	0	0	
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	0	0	
3.1.7	Renderings and Fly Throughs	LS	1	0	0	
3.1.8	PowerPoint Presentation	LS	1	0	0	
3.1.9	Public Meeting Preparations	LS	1	0	0	
3.1.10	Public Meeting Attendances/Followup	LS	1	0	0	
3.1.11	Other Agency Meetings	LS	0	0	0	
3.1.12	Web Site	LS	1	0	0	
			<b>3.1 Public Involvement Subtotal</b>		<b>0</b>	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	1	0	0	
3.4	Contract Maintenance and EDMS	LS	1	0	0	
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	160	160	See listing below
3.7	Plans Update	LS	1	0	0	

**Project Activity 3: General Tasks**

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	0	0	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.12	Other Project General Tasks	LS	1	0	0	
<b>3. Project Common and Project General Tasks: Total</b>					<b>160</b>	

<b>3.6 - List of Project Manager Meetings</b>						
		Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis		EA	0	0	0	
Drainage		EA	0	0	0	
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	0	0	0	
Phase Reviews		EA	20	8	160	Additional coordination meetings for Carlos Ribbeck and Francis Mitchell at City of Miami Beach, FDOT, DERM, SFWMD, etc. Assuming 2 people (Carlos Ribbeck and Francis Mitchell) x 4 hours per meeting (includes driving time) - 8 hrs / meeting. Additional meetings include all Design Phases: RFP, Intern South and Intern North.
Field Reviews		EA	0	0	0	
<b>Total Project Manager Meetings</b>					<b>160</b>	Total PM Meeting Hours carries to Task 3.6 above

**Notes:**

1. If the hours per meeting vary in length (hours) enter the average in the hour/unit column.
2. Do not double count agency meetings between permitting agencies.
3. Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.

Project Activity 4: Roadway Analysis

Estimator:

Indian Creek Drive from 26th Street to 41st Street RFP and Conceptual Plans Supplemental  
429228-2-58-01

Representing	Print Name	Signature / Date
City of Miami Beach		
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	
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal/Vertical Master Design Files	LS	1	0	0	
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	0	0	
4.10	Traffic Control Analysis	LS	1	0	0	
4.11	Master TCP Design Files	LS	1	0	0	
4.12	Design Variations and Exceptions	LS	8	24	192	As requested by the Department, Design Variation packages shall be included in the RFP package. Based on Conceptual Design, 8 Design Variations will be required and are as follows: (1) DV Border Width, (2) DV Horizontal Alignment, (3) DV Superlevation, (4) DV Grade on Curb and Gutter Sections, (5) DV for Sight Distance at Intersections Index 546, (6) DV for Stopping Sight Distance (7) DV for Minimum Parking Restrictions, and (8) DV for Bicycle Lane Width. Includes the Design Variation Report, crash data analysis, coordination with FDOT and exhibits.
4.13	Design Report	LS	1	0	0	
4.14	Quantities	LS	1	0	0	
4.15	Cost Estimate	LS	1	0	0	
4.16	Technical Special Provisions	LS	1	0	0	
4.17	Other Roadway Analyses	LS	1	0	0	
<b>Roadway Analysis Technical Subtotal</b>					<b>192</b>	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.18	Field Reviews	LS	0	0	0	
4.19	Monitor Existing Structures	LS	1	0	0	
4.20	Technical Meetings	LS	1	0	0	
4.21	Quality Assurance/Quality Control	LS	%	5%	10	
4.22	Independent Peer Review	LS	%	0%	0	
4.23	Supervision	LS	%	5%	10	
<b>Roadway Analysis Nontechnical Subtotal</b>						20
4.24	Coordination	LS	%	2%	4	
<b>4. Roadway Analysis Total</b>						<b>216</b>

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Typical Section	EA	1	4	4	no	0
Pavement	EA	1	4	4	no	0
Access Management	EA	0	0	0		0
15% Line and Grade	EA	2	4	8	yes	1
Driveways	EA	0	0	0		0
Local Governments (cities, counties, MPO)	EA	2	4	8	yes	2
Work Zone Traffic Control	EA	0	0	0		0
30/60/90/100% Comment Review Meetings	EA	2	4	8	yes	3
Other Meetings	EA	0	0	0		0
<b>Subtotal Technical Meetings</b>						<b>32</b>
<b>Subtotal Project Manager Meetings</b>						<b>6</b>
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	--
<b>Total Meetings</b>						<b>32</b>
<b>Total Project Manager Meetings (carries to Tab 3)</b>						<b>6</b>

Carries to 4.17

Carries to Tab 3

Indian Creek Drive from 25<sup>th</sup> Street to 26<sup>st</sup> Street and Collins Avenue from 26<sup>th</sup> Street to 27<sup>th</sup> Street  
Interim Construction Phase

Scope of Work– Ribbeck Engineering

December 20<sup>th</sup>, 2016

The Scope of Services of this consists of developing a set of construction plans for approximately 0.186 miles of roadway which includes Indian Creek Drive from 25<sup>th</sup> Street to north of 26<sup>th</sup> Street and Collins Avenue from 26<sup>th</sup> Street to 27<sup>th</sup> Street for the construction of a 72" main trunk along Indian Creek Drive, drainage improvements along Collins Avenue and roadway restoration. The construction plans include roadway, traffic control plans, drainage, signing & pavement markings, and signalization components. In addition, coordination with key stakeholders is included. The interim construction plans are required in order to construct a 72" main trunk along Indian Creek Drive, provide drainage improvements along Collins Avenue from 26<sup>th</sup> Street to 27<sup>th</sup> Street. The interim construction plans will follow FDOT design criteria as well as City of Miami Beach contract requirements.

The Scope of Services for this task includes the following:

**Project General Task**

- None under this Task. Hours have been included under RFP and Management Supplemental Task.

**Roadway Analysis and Plans:**

- Roadway restoration analysis and plans
- Drainage Plan and Profile Sheets
- Traffic Control analysis and plans
- Roadway Quantity take off and summary of pay items in compliance with FDOT Basis of Estimates
- Field Reviews
- Roadway analysis coordination with FDOT
- Roadway coordination with Contractor.

**Drainage Analysis and Plans:**

- Design of Storm Drains including the evaluation and analysis fo 22 new drainage structures within Collins Avenue from 25<sup>th</sup> Street to 26<sup>th</sup> Street. It also includes Collins Avenue at 26<sup>th</sup> Street intersection drainage improvements, as well as Collins Avenue from 25<sup>th</sup> Street to 26<sup>th</sup> Street 72" trunkline construction to be built to meet interim condition and to later transition into ultimate condition working under gravity flow conditions.

- Temporary Drainage Analysis including the evaluation to maintain drainage during construction as well the drainage interim phase between the newly constructed 72" trunk-line and the existing side-street drainage.
- Drainage coordination with Contractor during construction and field reviews.
- Drainage Map
- Drainage Quantity take off and summary of drainage structures in compliance with FDOT Basis of Estimates.
- Drainage calculations
- Permit Set for SFWMD and DERM
- Miscellaneous Drainage Details
- Optional Pipe Material
- Drainage Structure Sheets

**Utility Coordination:**

- Utility Coordination with UAO's

**Signing and Pavement Markings Analysis and Plans:**

- Signing and pavement markings analysis and plans for roadway restoration after drainage improvement construction as per MUTCD and FDOT criteria.

**Signalization Analysis and Plans:**

- Signalization analysis and plans for roadway restoration after drainage improvement construction as per MDCTS&S Division and FDOT requirements including pedestrian signal features restoration, pull boxes, conduits, loops, etc.



**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: 429228-2-58-01  
 FAP Number: TBD  
 Project Name: Indian Creek Drive from 25th Street to 26th Street  
 Name of Consultant: Ribbeck Engineering, Inc.  
 Date: 11/10/2016

WORK ACTIVITY	EMPLOYEE CLASSIFICATION											TOTAL STAFF HOURS		ON CADD PERCENT	
	Project Manager Hours	Sr. Project Engineer Hours	Project Engineer Hours	Sr. Engineer Hours	Engineer Intern Hours	Sr. Designer Hours	Staff Classification 7 Hours	Staff Classification 8 Hours	Staff Classification 9 Hours	Staff Classification 10 Hours	Staff Classification 11 Hours	Staff Classification 12 Hours	RANGE		PERCENT
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours				
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Roadway Analysis	197	39	39	20	39	21	0	0	0	0	0	0	197	217	
5. Roadway Plans	134	0	0	27	53	54	0	0	0	0	0	0	134	147	
6a. Drainage Analysis	106	21	0	85	0	0	0	0	0	0	0	0	106	117	
6b. Drainage Plans	214	43	43	21	43	21	0	0	0	0	0	0	214	235	
7. Utilities	24	0	0	0	0	24	0	0	0	0	0	0	24	26	
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Structures - Misc. Tasks, Dvgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	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	
12. Structures - Short Span Concrete Bridge	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	
14. Structures - Structural Steel Bridge	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	
16. Structures - Movable Span	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	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	58	12	12	6	10	6	0	0	0	0	0	0	58	64	
20. Signing & Pavement Marking Plans	27	0	0	5	11	11	0	0	0	0	0	0	27	30	
21. Signalization Analysis	29	6	6	3	5	3	0	0	0	0	0	0	29	32	
22. Signalization Plans	22	0	0	4	9	9	0	0	0	0	0	0	22	24	
23. Lighting Analysis	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	
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Architecture Plans	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	
28. Photogrammetry	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	
30. Terrestrial Mobile LiDAR	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	
32. Noise Barriers Impact Design Assessment	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	
34. Intelligent Transportation Systems Plans	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	
<b>TOTALS</b>	<b>811</b>	<b>121</b>	<b>100</b>	<b>135</b>	<b>170</b>	<b>149</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>811</b>	<b>892</b>	

Field Survey Estimate: 0 4-man crew days

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 03 to 06 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 total 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: 429228-2-58-01  
 FAP Number: TBD  
 Date: 11/10/2016  
 Project Name: Indian Creek Drive from 25th Street to 26th  
 Name of Consultant: Ribbeck Engineering, Inc.

Staff Hour Distribution Percentages - Firm Total														
Project General and Project Common Tasks	Hours from "Summary" sheet Firm Total	Project Manager	Sr Project Engineer	Project Engineer	Sr. Engineer	Engineer Intern	Sr. Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	Total
3. Project General and Project Common Tasks	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%
4. Roadway Analysis	197	20.0%	20.0%	10.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	134	0.0%	0.0%	20.0%	20.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	106	20.0%	0.0%	0.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6b. Drainage Plans	214	20.0%	20.0%	10.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
7. Utilities	24	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
8. Environmental Permits, Compliance & Clearances	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%
9. Structures - Misc. Tasks, Dwg. Non-Tech.	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%
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	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%
19. Signing & Pavement Marking Analysis	58	20.0%	20.0%	10.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
20. Signing & Pavement Marking Plans	27	0.0%	0.0%	20.0%	0.0%	40.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
21. Signalization Analysis	29	20.0%	20.0%	10.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
22. Signalization Plans	22	0.0%	0.0%	20.0%	0.0%	40.0%	40.0%	0.0%	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 Architecture 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 Architecture 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%

**ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: Indian Creek Drive from 25th Street to 26th Street and Collins Avenue - Interim Phase 1  
 County: Miami-Dade  
 FPN: 429228-2-58-01  
 FAP No.: TBD

Consultant Name: Ribbeck Engineering, Inc.  
 Consultant No.: F-26-0460464  
 Date: 11/10/2016  
 Estimator: Carlos Ribbeck, P.E.

Staff Classification	Total Staff Hours From SH Summary - Firm	Project Manager	Sr Project Engineer	Project Engineer	Sr. Engineer	Engineer Intern	Sr. Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	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	197	39	39	39	20	39	21	0	0	0	0	0	0	197	\$9,915	\$50.33
5. Roadway Plans	134	0	0	27	0	53	54	0	0	0	0	0	0	134	\$4,505	\$33.62
6a. Drainage Analysis	106	21	0	0	85	0	0	0	0	0	0	0	0	106	\$6,465	\$60.99
6b. Drainage Plans	214	43	43	43	21	43	21	0	0	0	0	0	0	214	\$10,815	\$50.54
7. Utilities	24	0	0	0	0	0	24	0	0	0	0	0	0	24	\$600	\$25.00
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwg. Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	58	12	12	12	6	10	6	0	0	0	0	0	0	58	\$2,968	\$51.17
20. Signing & Pavement Marking Plans	27	0	0	5	0	11	11	0	0	0	0	0	0	27	\$896	\$33.19
21. Signalization Analysis	29	6	6	6	3	5	3	0	0	0	0	0	0	29	\$1,464	\$51.17
22. Signalization Plans	22	0	0	4	0	9	9	0	0	0	0	0	0	22	\$728	\$33.09
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 Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture 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!
<b>Total Staff Hours</b>	<b>811</b>	<b>121</b>	<b>100</b>	<b>136</b>	<b>135</b>	<b>170</b>	<b>149</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>811</b>	<b>\$38,376.00</b>	<b>\$47.32</b>
<b>Total Staff Cost</b>	<b>\$7,865.00</b>	<b>\$5,800.00</b>	<b>\$7,616.00</b>	<b>\$8,100.00</b>	<b>\$5,270.00</b>	<b>\$3,725.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>811</b>	<b>\$38,376.00</b>	<b>\$47.32</b>

Survey Field Days by Subconsultant  
 4 - Person Crew:

Notes:  
 1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.  
 2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

SALARY RELATED COSTS:  
 OVERHEAD: 163.75%  
 OPERATING MARGIN: 38.5%  
 FCCM (Facilities Capital Cost Money): 0.767%  
 EXPENSES:  
 Survey (Field - # by Prime) 0  
 SUBTOTAL ESTIMATED FEE: 4-man crew days @ \$ / day  
 Subconsultant: Enter Name Sub 1  
 Subconsultant: Sub 2  
 Subconsultant: Sub 3  
 Subconsultant: Sub 4  
 Subconsultant: Sub 5  
 Subconsultant: Sub 6  
 Subconsultant: Sub 7  
 Subconsultant: Sub 8  
 Subconsultant: Sub 9  
 Subconsultant: Sub 10  
 Subconsultant: Sub 11  
 Subconsultant: Sub 12

Optional Services  
 GRAND TOTAL ESTIMATED FEE: \$116,289.64

Project Activity 4: Roadway Analysis

Estimator: CR  
 Indian Creek Drive from 25th Street to 26th Street and Collins Avenue - Interim Phase I  
 429228-2-58-01

Representing		Print Name		Signature / Date	
City of Miami Beach					
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	
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	45	45	240 hrs/mile x 0.186 miles = 45 hrs
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	0	0	
4.10	Traffic Control Analysis	LS	1	40	40	Level III - Low Range - 40 hrs
4.11	Master TCP Design Files	LS	1	40	40	Low range - 4 Phases
4.12	Design Variations and Exceptions	LS	0	0	0	
4.13	Design Report	LS	1	0	0	
4.14	Quantities	LS	1	36	36	Low Range
4.15	Cost Estimate	LS	1	0	0	
4.16	Technical Special Provisions	LS	1	0	0	
4.17	Other Roadway Analyses	LS	1	0	0	
<b>Roadway Analysis: Technical Subtotal</b>					<b>161</b>	
4.18	Field Reviews	LS	2	8	16	
4.19	Monitor Existing Structures	LS	1	0	0	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No. of Units	Hours/ Unit	Total Hours	Comments
4.20	Technical Meetings	LS	1	0	0	
4.21	Quality Assurance/Quality Control	LS	%	5%	8	
4.22	Independent Peer Review	LS	%	0%	0	
4.23	Supervision	LS	%	5%	8	
Roadway Analysis Nontechnical Subtotal						32
4.24	Coordination	LS	%	2%	4	
4. Roadway Analysis Total						197

Technical Meetings	Units	No. of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Typical Section	EA	1	4	4	no	0
Pavement	EA	1	4	4	no	0
Access Management	EA	0	0	0		0
15% Line and Grade	EA	2	4	8	yes	1
Driveways	EA	0	0	0		0
Local Governments (cities, counties, MPC)	EA	2	4	8	yes	2
Work Zone Traffic Control	EA	0	0	0		0
30/60/90/100% Comment Review Meetings	EA	2	4	8	yes	3
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings						32
Subtotal Project Manager Meetings						6
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						32
Total Project Manager Meetings (carries to Tab 3)						6

Carries to Tab 5

Carries to 4.17

**Project Activity 5: Roadway Plans**

Estimator:

Indian Creek Drive from 25th Street to 26th Street and Collins Avenue - Interim Phase I  
429228-2-58-01

Representing		Print Name		Signature / Date	
City of Miami Beach					
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	8	8	
5.2	Summary of Pay Items Including Quantity Input		Sheet	1	16	16	
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	2	10	20	
5.3.2	Typical Section Details		EA		0	0	
5.4	General Notes/Pay Item Notes		Sheet	1	8	8	
5.5	Summary of Quantities Sheets		Sheet		0	0	
5.6	Project Layout		Sheet		0	0	
5.7	Plan/Profile Sheet		Sheet	3	6	18	3 Drainage Plan/Profile Plan Sheets
5.8	Profile Sheet		Sheet		0	0	
5.9	Plan Sheet		Sheet	1	4	4	Roadway Restoration Plan
5.10	Special Profile		Sheet		0	0	
5.11	Back-of-Sidewalk Profile Sheet		Sheet		0	0	
5.12	Interchange Layout Sheet		Sheet		0	0	
5.13	Ramp Terminal Details (Plan View)		Sheet		0	0	
5.14	Intersection Layout Details		Sheet		0	0	
5.15	Special Details		EA		0	0	
5.16	Cross-Section Pattern Sheet(s)		Sheet		0	0	

**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 Sheet(s)		Sheet		0	0		
5.18	Cross Sections		EA		60	0		
5.19	Temporary Traffic Control Plan Sheets		Sheet	4	8	32	4 Phases - 1 sheet each phase	
5.20	Temporary Traffic Control Cross Section Sheets		EA		0	0		
5.21	Temporary Traffic Control Detail Sheets		Sheet	1	8	8	TCP General Notes	
5.22	Utility Adjustment Sheets		Sheet		0	0		
5.23	Selective Clearing and Grubbing Sheet(s)		Sheet		0	0		
5.24	Project Network Control Sheet(s)		Sheet	4	1	4		
5.25	Environmental Detail Sheets		Sheet		0	0		
5.26	Utility Verification Sheet(s) (SUE Data)		Sheet	1	4	4		
<b>Roadway Plans Technical Subtotal</b>							<b>122</b>	
5.27	Quality Assurance/Quality Control		LS	%	5%	6		
5.28	Supervision		LS	%	5%	6		
<b>5: Roadway Plans Total</b>							<b>134</b>	

Project Activity 6a: Drainage Analysis

Estimator: CR

Indian Creek Drive from 25th Street to 26th Street and Collins Avenue - Interim Phase I  
429228-2-58-01

<b>Representing</b>	<b>Print Name</b>	<b>Signature / Date</b>
City of Miami Beach		
<b>Consultant Name</b>		

**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		0	0	
6a.2	Base Clearance Report	Per Location		0	0	
6a.3	Pond Siting Analysis and Report	Per Basin		0	0	
6a.4	Design of Cross Drains	EA		0	0	
6a.5	Design of Ditches	Per Ditch Mite		0	0	
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA		0	0	
6a.7	Design of Stormwater Management Facility (Roadside Ditch as Linear Pond)	Per Cell		0	0	
6a.8	Design of Floodplain Compensation	Per Floodplain Basin		0	0	
6a.9	Design of Storm Drains	EA	22	2	44	Includes the evaluation & analysis for 22-new drainage structures within Collins Ave. from 25 St to 26 St (Includes Collins at 26 St. Intersection drainage improvements & Collins from 25 St to 26 St 72" trunkline construction to be build to meet interim condition and to later transition into ultimate condition) working under gravity flow conditions
6a.10	Optional Culvert Material	EA	1	8	8	
6a.11	French Drain Systems	Per Cell		0	0	
6a.12	Drainage Wells	EA		0	0	
6a.13	Drainage Design Documentation Report	LS		0	0	
6a.14	Bridge Hydraulic Report	EA		0	0	

Project Activity 6a: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	1	24	24	Includes evaluation to maintain drainage during construction as well the drainage interphase between the newly constructed 72" trunk-line and the existing side-street drainage
6a.16	Cost Estimate	LS		0	0	
6a.17	Technical Special Provisions	LS		0	0	
6a.18	Other Drainage Analysis	LS		0	0	
Drainage Analysis Technical Subtotal						76
6a.19	Field Reviews	LS	5	4	20	Coordination with contractor during construction - Estimated 5 field review meetings
6a.20	Technical Meetings	LS	1	0	0	Meetings are listed below
6a.21	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.22	Quality Assurance/Quality Control	LS	%	5%	4	
6a.23	Independent Peer Review	LS	%	0%	0	
6a.24	Supervision	LS	%	5%	4	
Drainage Analysis Nontechnical Subtotal						28
6a.25	Coordination	LS	%	2%	2	
6a. Drainage Analysis Total						106

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0		0
Pond Siting	EA	0	0	0		0
Agency	EA	0	0	0		0
Local Governments (cities, counties)	EA	0	0	0		0
FDOT Drainage	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings						0
Progress Meetings (if required by FDOT)						
Phase Review Meetings	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3	--
Total Meetings						
Total Project Manager Meetings (carries to Tab 3)						--
Total Project Manager Meetings						0

Carries to 6.19

Carries to Tab 3

**6b. Drainage Plans**

Estimator: CR  
 Indian Creek Drive from 25th Street to 26th Street and Collins Avenue - Interim Phase I  
 429228-2-58-01

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)		Sheet	1	24	24	
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	
6b.3	Summary of Drainage Structures		Sheet	1	24	24	
6b.4	Optional Pipe/Culvert Material		Sheet	1	8	8	
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	22	3	66	
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	3	24	72	
6b.7	Lateral Ditch Plan/Profile		Sheet	0	0	0	
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	
6b.9	Retention/Retention Ponds Detail Sheet(s)		Sheet	0	0	0	
6b.10	Retention Pond Cross Sections		EA	0	0	0	
6b.11	Erosion Control Plan Sheet(s)		Sheet	0	0	0	
6b.12	SWPPP Sheet(s)		Sheet	0	0	0	
				<b>Drainage Plans Technical Subtotal</b>		<b>194</b>	
6b.13	Quality Assurance/Quality Control		LS	%	5%	10	
6b.14	Supervision		LS	%	5%	10	
				<b>6. Drainage Plans Total</b>		<b>214</b>	

**Project Activity 7: Utilities**

Estimator:

Indian Creek Drive from 25th Street to 26th Street and Collins Avenue - Interim Phase I  
429228-2-58-01

<b>Representing</b>	<b>Print Name</b>	<b>Signature / Date</b>
City of Miami Beach		
<b>Consultant Name</b>		

**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		0	0	
7.2	Identify Existing Utility Agency Owners (UAO(s))	LS		0	0	
7.3	Make Utility Contacts	LS		0	0	
7.4	Exception Processing	LS		0	0	
7.5	Preliminary Utility Meeting	LS		0	0	
7.6	Individual/Field Meetings	LS		1	0	
7.7	Collect and Review Plans and Data from UAO(s)	LS		8	0	
7.8	Subordination of Easements Coordination	LS		0	0	
7.9	Utility Design Meeting	LS		0	0	
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS		0	0	
7.11	Utility Coordination/Followup	LS		0	0	
7.12	Utility Constructability Review	LS		0	0	
7.13	Additional Utility Services	LS		0	0	
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS		0	0	
7.15	Contract Plans to UAO(s)	LS		0	0	
7.16	Certification/Close-Out	LS		0	0	
7.17	Other Utilities	LS		1	24	Utility Coordination with UAO's
<b>7. Utilities Total</b>					<b>24</b>	

Project Activity 7: Utilities

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	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	0	0	0		0
Design Meeting (see 7.9)	EA	0	0	0		0
Other Meetings (this is automatically added into Utilities Total (cell F27))	EA	0	0	0		0
<b>Total Meetings</b>				<b>0</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to Tab 5

**Project Activity 19: Signing and Pavement Marking Analysis**

Estimator: CR

Indian Creek Drive from 25th Street to 26th Street and Collins Avenue - Interim Phase I  
429228-2-58-01

<b>Representing</b>	<b>Print Name</b>	<b>Signature / Date</b>
City of Miami Beach		
<b>Consultant Name</b>		

**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	
19.2	No Passing Zone Study	LS	1		0	
19.3	Reference and Master Design File	LS	1		0	
19.4	Multi-Post Sign Support Calculations	EA	1	41	41	30 hrs to set up + 60 hrs / mile x 0.186 miles = 41 hrs
19.5	Sign Panel Design Analysis	EA	1		0	
19.6	Sign Lighting/Electrical Calculations	EA	1		0	
19.7	Quantities	LS	1	4	4	
19.8	Cost Estimate	LS	1		0	
19.9	Technical Special Provisions	LS	1		0	
19.10	Other Signing and Pavement Marking	LS	1		0	
<b>Signing and Pavement Marking Analysis Technical Subtotal</b>					<b>45</b>	
19.11	Field Reviews	LS	1	8	8	
19.12	Technical Meetings	LS	1	0	0	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	
<b>Signing and Pavement Marking Analysis Nontechnical Subtotal</b>					<b>12</b>	
19.16	Coordination	LS	%	2%	1	
<b>19. Signing and Pavement Marking Analysis Total</b>					<b>58</b>	

**Project Activity 19: Signing and Pavement Marking Analysis**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		Number
						PM Attendance at Meeting Required?		
	Sign Panel Design	EA	1	0	0		no	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
	<b>Subtotal Technical Meetings</b>				<b>0</b>		<b>Subtotal Project Manager Meetings</b>	<b>0</b>
	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>	--
	<b>Total Meetings</b>				<b>0</b>		<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to 19.12

Carries to Tab 3

**Project Activity 20: Signing and Pavement Marking Plans**

Estimator:

Indian Creek Drive from 25th Street to 26th Street and Collins Avenue - Interim Phase I  
429228-2-58-01

<b>Representing</b>	<b>Print Name</b>	<b>Signature / Date</b>
City of Miami Beach		
<b>Consultant Name</b>		

**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	4	1	4	
20.2	Summary of Pay Items Including TRNS-Port Input		LS	1	0		0	
20.3	Tabulation of Quantities		Sheet	1	12	1	12	
20.4	General Notes/Pay Item Notes		Sheet	1	4	1	4	
20.5	Project Layout		Sheet	0	0	0	0	
20.6	Plan Sheet		Sheet	1	5	1	5	1 sheet
20.7	Typical Details		EA	0	0		0	
20.8	Guide Sign Worksheet(s)		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	0	0		0	
20.13	Interim Standards		LS	0	0		0	
<b>Signing and Pavement Marking Plans Technical Subtotal</b>						<b>4</b>	<b>25</b>	
20.14	Quality Assurance/Quality Control		LS	%	5%		1	
20.15	Supervision		LS	%	5%		1	
<b>20: Signing and Pavement Marking Plans Total</b>						<b>4</b>	<b>27</b>	

**Project Activity 21: Signalization Analysis**

Indian Creek Drive from 25th Street to 26th Street and Collins Avenue - Interim Phase I  
429228-2-58-01

Estimator:

<b>Representing</b> City of Miami Beach	<b>Print Name</b>	<b>Signature / Date</b>
<b>Consultant Name</b>		

**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		0	
21.2	Traffic Data Analysis	PI	0		0	
21.3	Signal Warrant Study	LS	1		0	
21.4	System Timings	LS	1		0	
21.5	Reference and Master Signalization Design File	PI	1	22	22	Low range - 1 signalized intersection at Collins Avenue and 26 Street
21.6	Reference and Master Interconnect Communication Design File	LS	1		0	
21.7	Overhead Street Name Sign Design	EA	0		0	
21.8	Pole Elevation Analysis	LS	1		0	
21.9	Traffic Signal Operation Report	LS	1		0	
21.10	Quantities	LS	1	4	4	Low range - 1 signalized intersection at Collins Avenue and 26 Street
21.11	Cost Estimate	LS	1		0	
21.12	Technical Special Provisions	LS	1		0	
21.13	Other Signalization Analysis	LS	1		0	
<b>Signalization Analysis Technical Subtotal</b>					<b>26</b>	
21.14	Field Reviews	LS	1	0	0	
21.15	Technical Meetings	LS	1	0	0	Meetings are listed below, Miami Dade County Signals
21.16	Quality Assurance/Quality Control	LS	%	5%	1	
21.17	Independent Peer Review	LS	%	0%	0	
21.18	Supervision	LS	%	5%	1	
<b>Signalization Analysis Nontechnical Subtotal</b>					<b>2</b>	

Project Activity 21: Signalization Analysis

21.19	Coordination	LS	%	2%	1	
21. Signalization Analysis Total						29
Technical Meetings						
		Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?
	FDOT Traffic Operations	EA	0	0	0	0
	FDOT Traffic Design	EA	0	0	0	0
	Power Company (service point coordination)	EA	0	0	0	0
	Maintaining Agency (cities, counties)	EA	0	0	0	0
	Railroads	EA	0	0	0	0
	Other Meetings	EA	0	0	0	0
	<b>Subtotal Technical Meetings</b>				<b>0</b>	<b>Subtotal Project Manager Meetings</b>
	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>
	<b>Total Meetings</b>				<b>0</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>

Carries to 21.15

Carries to Tab 3

Project Activity 22: Signalization Plans

Indian Creek Drive from 25th Street to 26th Street and Collins Avenue - Interim Phase I  
429228-2-58-01

Estimator:

<b>Representing</b> City of Miami Beach	<b>Print Name</b> 
<b>Consultant Name</b> 	<b>Signature / Date</b> 

**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	
22.2	Summary of Pay Items Including Designer Interface (TRANS-Port) Input		Sheet	0	0	0	0	
22.3	Tabulation of Quantities		Sheet	1	8	1	8	
22.4	General Notes/Pay Item Notes		Sheet	1	4	1	4	
22.5	Plan Sheet		Sheet	1	4	1	4	Low range - 1 signalized intersection at Collins Avenue and 26 Street
22.6	Interconnect Plans		Sheet	0	0	0	0	
22.7	Traffic Monitoring Site		EA	0	0		0	
22.8	Guide Sign Worksheet		EA	0	0		0	
22.9	Special Details		Sheet	0	0	0	0	
22.10	Special Service Point Details		EA	0	0		0	
22.11	Mast Arm/Monotube Tabulation Sheet		PI	0	0		0	
22.12	Strain Pole Schedule		PI	0	0		0	
22.13	TCP Signal (Temporary)		EA	0	0		0	
22.14	Temporary Detection Sheet		PI	0	0		0	
22.15	Utility Conflict Sheet		Sheet	0	0	0	0	
22.16	Interim Standards		LS	1	0		0	
				<b>Signalization Plans Technical Subtotal</b>		<b>4</b>	<b>20</b>	
22.17	Quality Assurance/Quality Control		LS	%	5%		1	
22.18	Supervision		LS	%	5%		1	
				<b>22. Signalization Plans Total</b>		<b>4</b>	<b>22</b>	

Indian Creek Drive from 25<sup>th</sup> Street to 41<sup>st</sup> Street – Bulkhead Seawalls, Pump Structure and Temporary Steel Sheet Pile Cofferdam - Structural

Revised January 13, 2017

The work consists of developing contract documents for approximately 4500 LF of bulkhead retaining walls from 25<sup>th</sup> Street to 41<sup>st</sup> Street. The contract drawings will consist of wall control drawings, notes and typical wall sections depicting the City of Miami Beach pile and panel standard bulkhead wall details and do not include the actual wall design. The proposed new bulkhead wall will be located along the front face of the existing bulkhead wall within the City and private owned parcels. Return walls consisting of FDOT Standard gravity walls will be used to contain the grade differential between the City owned and non-owned parcels during phased construction.

The work will be performed in accordance with City of Miami Beach and FDOT design requirements, and includes the following tasks:

1. Develop horizontal and vertical wall layout geometry based on survey cross sections depicting the location of the existing wall and baseline geometry.
2. Develop plan views of approximately 4500 LF of retaining walls with gravity wall returns.
3. Develop typical wall section of City of Miami Beach standard bulkhead wall, including provisions for drainage and utility pipe crossings depicting elevations at top of wall and existing grade at face of wall.
4. Design and develop final plans and details for the concrete drainage pump structure, including the temporary steel sheet pile cofferdam for construction of the pump structure. The geotechnical engineer shall provide recommendations and criteria for the foundation design.
5. Coordinate the work with the City of Miami Beach Engineer, Geotechnical Engineer, Drainage Engineer, Environmental Engineer, and Utility Engineer.
6. Develop permit drawings for South Florida Water Management District (SFWMD) and DERM. The permit drawings will be split into two packages. The first between 25<sup>th</sup> Street to 26<sup>th</sup> Street (includes both SFWMD and DERM) and the second from 26<sup>th</sup> Street to 41<sup>st</sup> Street (in two submittals, one for SFWMD and another for DERM).
7. Develop preliminary design of Temporary Critical Walls (TCW) for construction of the main drainage pipe running parallel to SR AIA (Indian Creek) and preliminary design of permanent steel sheet pile walls along FDOT RW. Design the wall to support the excavation required to install the proposed drainage pipe along SR AIA. Evaluate the feasibility for the use of the TCW or contractor proposed trench box based on proposed traffic control plans.
8. Review contractor shop drawings for the bulkhead walls and pump structure.

Construction will be in accordance with City of Miami Beach and FDOT Specifications.

**Project Information Sheet**

**Financial Project Identification Number:** NA  
**Name of Prime / Subconsultant:** Bolton Perez & Associates  
**Federal Aid Project Identification Number:** NA  
**County:** Miami-Dade  
**Project Description:** Indian Creek Drive from 26th Street to 41st Street - Phase 1 Bulkhead Retaining Walls and Drainage Pump Structure  
**Begin Milepost:** \_\_\_\_\_ **End Milepost:** \_\_\_\_\_ **Miles:** \_\_\_\_\_  
**Number of Lanes:** \_\_\_\_\_ **Typical Section:** \_\_\_\_\_ **Lane Configuration:** \_\_\_\_\_ (Divided / Undivided)  
**Project Type:** \_\_\_\_\_ **Access Management Classification:** \_\_\_\_\_ **Roadway Classification:** \_\_\_\_\_ (NHS/FIHS/OIF Sys.)  
**CAP Level:** \_\_\_\_\_ **TCP Level:** \_\_\_\_\_ **Survey Level:** \_\_\_\_\_  
**Design Variations:** 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_ 5. \_\_\_\_\_  
**Design Exceptions:** 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_ 5. \_\_\_\_\_  
**Proposed Design Contract Time:** \_\_\_\_\_ months/days **Date of Negotiation:** \_\_\_\_\_

Project Activity	Estimated By:		Negotiated By: (name - firm)	
	Consultant	FDOT	Consultant	FDOT
3. Project Common & Project General Tasks	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
4. Roadway Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
5. Roadway Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
6a. Drainage Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
6b. Drainage Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
7. Utilities	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
8. Environmental Permits	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
9. Structures Summary	Joaquin Perez, Bolton Perez & Associates	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	Joaquin Perez, Bolton Perez & Associates	Enter name & office	Enter name & firm	Enter name & office
18. Structures - Miscellaneous	Joaquin Perez, Bolton Perez & Associates	Enter name & office	Enter name & firm	Enter name & office
19. Signing and Pavement Marking Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
20. Signing and Pavement Marking Plans	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
21. Signalization Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
22. Signalization Plans	Enter name & firm	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 Architecture Analysis	Enter name & firm	Enter name & office	Enter name & firm	Enter name & office
26. Landscape Architecture 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	Enter name & firm	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



**ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL**

Financial Project Number: NA      Project Name: Indian Creek Drive from 26th Street to 41  
 FAP Number: NA      Name of Consultant: Bolton Perez & Associates  
 Date: 01/18/2017

WORK ACTIVITY	Hours from Summary sheet	EMPLOYEE CLASSIFICATION													TOTAL STAFF HOURS		ON CADD PERCENT
		Chief Engineer	Sr. Project Engineer	Project Engineer	Engineer	Designer	Engineering Intern	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	RANGE	850		
		Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours				
3. Project General and Project Common Tasks	0	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	0
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6a. Drainage Analysis	0	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	0
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Structures - Misc. Tasks, Dvgs, Non-Tech.	168	17	42	42	33	17	17	0	0	0	0	0	0	0	0	0	168
10. Structures - Bridge Development Report	0	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	0
12. Structures - Short Span Concrete Bridge	0	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	0
14. Structures - Structural Steel Bridge	0	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	0
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17. Structures - Retaining Walls	472	47	118	118	94	47	47	0	0	0	0	0	0	0	0	0	0
18. Structures - Miscellaneous	210	21	53	53	42	21	21	0	0	0	0	0	0	0	0	0	471
19. Signing & Pavement Marking Analysis	0	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	0
21. Signalization Analysis	0	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	0
23. Lighting Analysis	0	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	0
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. Landscape Architecture Plans	0	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	0
28. Photogrammetry	0	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	0
30. Terrestrial Mobile LIDAR	0	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	0
32. Noise Barriers Impact Design Assessment	0	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	0
34. Intelligent Transportation Systems Plans	0	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	0
<b>TOTALS</b>	<b>848</b>	<b>85</b>	<b>213</b>	<b>213</b>	<b>169</b>	<b>85</b>	<b>85</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>850</b>



**ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: Indian Creek Drive from 26th Street to 41st Street - Phase 1 Bulkhead Retaining Walls and Drainage Pump Structure  
 County: Miami-Dade  
 FPN: NA  
 FAP No.: NA

Consultant Name: Bolton Perez & Associates  
 Proposal No.: 01/18/2017  
 Date: 01/18/2017  
 Estimator: Joaquin Perez

Staff Classification	Total Staff Hours From "SH" Summary -	Chief Engineer	Sr. Project Engineer	Project Engineer	Engineer	Designer	Engineering Intern	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
3. Project General and Project Common Tasks	0	0	0	0	0	\$106.08	\$83.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0	#DW/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
9. Structures - Misc. Tasks, Dvgs, Non-Tech.	166	17	42	42	33	17	17	0	0	0	0	0	0	168	\$24,562	\$148.53
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
17. Structures - Retaining Walls	472	47	118	118	94	47	47	0	0	0	0	0	0	0	\$69,932	\$148.48
18. Structures - Miscellaneous	210	21	53	53	42	21	21	0	0	0	0	0	0	211	\$31,337	\$148.52
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DW/0!
<b>Total Staff Hours</b>	<b>848</b>	<b>85</b>	<b>213</b>	<b>213</b>	<b>169</b>	<b>85</b>	<b>85</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>850</b>	<b>\$126,221.20</b>	<b>\$148.50</b>
<b>Total Staff Cost</b>	<b>\$20,095.28</b>	<b>\$42,608.16</b>	<b>\$27,437.81</b>	<b>\$19,976.88</b>	<b>\$9,017.14</b>	<b>\$7,084.84</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>850</b>	<b>\$126,221.20</b>	<b>\$148.50</b>

Survey Field Days by Subconsultant  
 4 - Person Crew.

Notes:  
 1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.  
 2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

SALARY RELATED COSTS:  
 OVERHEAD: \$0.00  
 OPERATING MARGIN: 0%  
 FOCM (Facilities Capital Cost Money): 0.00%  
 EXPENSES: 0.00%  
 Survey (Field - if by Prime) 0 \$ / day  
 4-man crew days @  
**SUBTOTAL ESTIMATED FEE:**  
 Post Design Services - 10% Design Fee  
 Subconsultant Sub 2 \$0.00  
 Subconsultant Sub 3 \$0.00  
 Subconsultant Sub 4 \$0.00  
 Subconsultant Sub 5 \$0.00  
 Subconsultant Sub 6 \$0.00  
 Subconsultant Sub 7 \$0.00  
 Subconsultant Sub 8 \$0.00  
 Subconsultant Sub 9 \$0.00  
 Subconsultant Sub 10 \$0.00  
 Subconsultant Sub 11 \$0.00  
 Subconsultant Sub 12 \$0.00  
**SUBTOTAL ESTIMATED FEE:** \$138,843.32  
 Geotechnical Field and Lab Testing \$0.00  
 Optional Services \$0.00  
**GRAND TOTAL ESTIMATED FEE:** \$138,843.32

**Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings**

Estimator: Indian Creek Drive from 26th Street to 41st Street - Phase 1 Bulkhead Retaining Walls and Drainage Pump Structure  
NA

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 Streets	Total					
9.1	General Drawings										
	Key Sheet and Index of Drawings	Sheet	1	4	1	4	Index and Location Map				
9.2	Project Layout	Sheet	1	8	1	8					
9.3	General Notes and Bid Item Notes	Sheet	0	0	0	0	NA Included with Wall Plans				
9.4	Miscellaneous Common Details	Sheet	0	0	0	0	NA				
9.5	Incorporate Report of Core Borings	Sheet	2	1	2	2					
9.6	Design Build Criteria	LS	1	0		0	NA				
9.7	Assemble Plan Summary Boxes and Quantities	LS	1	0		0	NA				
9.8	Cost Estimate	LS	1	0		0	NA				
9.9	Technical Special Provisions	LS	1	0		0	NA - FDOT Specifications				
<b>Structures - Summary and Miscellaneous Tasks and Drawings Subtotal</b>					4	14					
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									
10-16	Bridge 6	0									

**Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings**

Task No.	Task	Units	No. of Units	Hours/Unit	Total Hours	PM Attendance at Meeting Required?	Number
10-16	Bridge 7	0					
10-16	Bridge 8	0					
10-16	Bridge 9	0					
10-16	Bridge 10	0					
17	Retaining Walls	472					472
18	Miscellaneous Structures	210					210
Structures Technical Subtotal		682	0	0	0	0	472
Structures Nontechnical Subtotal					138		
9.10	Field Reviews	LS	1	16	16		
9.11	Technical Meetings	LS	1	52	52		
9.12	Quality Assurance/Quality Control	LS	%	5%	35		
9.13	Independent Peer Review	LS	1	0	0		
9.14	Supervision	LS	%	5%	35		
Structures - Summary and Miscellaneous Tasks and Drawings Nontechnical and Coordination Total					166		
9.15	Coordination	LS	1	2%	14		
9. Structures - Summary and Miscellaneous Tasks and Drawings Nontechnical and Coordination Total					166		
Technical Meetings		Units	No. of Units	Hours/Unit	Total Hours	PM Attendance at Meeting Required?	Number
BDR Coordination/Review		EA	0	0	0		0
90/100% Comment Review		EA	0	0	0		0
Aesthetics Coordination		EA	0	0	0		0
Regulatory Agency		EA	0	0	0		0
Local Governments (cities, counties)		EA	16	3	48		0
Utility Companies		EA	0	0	0		0
Other Meetings - FDOT		EA	1	4	4		0
Subtotal Technical Meetings					52		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	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3	--
Total Meetings					52	Total Project Manager Meetings (carries to Tab 3)	0

Carries to 9.11

Carries to Tab 3

**Project Activity 17: Retaining Walls**

Indian Creek Drive from 26th Street to 41st Street - Phase 1 Bulkhead Retaining Walls and Drainage Pump Structure  
NA

Estimator:

Representing	Print Name	Signature / Date
FDOT District		
Bolton Perez & Associates	Joaquin Perez	

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Unit	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
17.1	Key Sheet	Sheet	0	0	0	0	NA - Included under Tab #9
17.2	Horizontal Wall Geometry	Per Wall	11	4		44	Station and offset for 11 wall sections, including depicting gravity return walls (11 sheets)
<b>Permanent Proprietary Bulkhead Walls - City of Miami Beach Standard Design / Drawings</b>							
17.3	Vertical Wall Geometry	Per Wall	0	0		0	NA - Show top of cap and existing ground at face of wall on typical section. Included with 17.6
17.4	Semi-Standard Drawings	Sheet	1	10	1	10	General Notes, Geotechnical Design Parameters, City of Miami Beach Bulkhead Wall Details.
17.5	Wall Plan (Control Drawings)	Sheet	11	8	11	88	11 wall sections-plan view only including depicting the gravity return walls
17.6	Details	Sheet	2	24	2	48	Typical section details (4 sections), drainage pipe outlet details
<b>Permanent and Temporary Critical Steel Sheet Pile Walls</b>							
17.7	Vertical Wall Geometry	Per Wall	2	8		16	Preliminary Layout for evaluation - Permanent and Temporary Critical Walls
17.8	Design	EA Design	2	20		40	Preliminary design / calculations and pile section properties - Permanent and Temporary Critical Walls
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	NA
17.10	Details	Sheet	0	0	0	0	NA
<b>Cast-in-Place Gravity Retaining Walls</b>							
17.11	Design	EA Design	1	8		8	Check application for use of FDOT Gravity Wall Standards at 29 locations
17.12	Vertical Wall Geometry	EA Wall	29	2		58	
17.13	General Notes	Sheet	0	0	0	0	NA, Refer to FDOT Standards
17.14	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	NA - depicted on wall control drawing plan view, included with 17.5
17.15	Sections and Details	Sheet	0	0	0	0	NA, Refer to FDOT Standards
17.16	Reinforcing Bar List	Sheet	0	0	0	0	NA, Refer to FDOT Standards

Project Activity 17: Retaining Walls

Task No.	Task	Unit	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
	<b>Bulkhead Wall Permit Plans</b>						
17.17	Wall Plans	Sheet	4	8	4	32	From 25th Street to 26th Street - SFWMD and DERM
17.18	Wall Plans	Sheet	11	8	11	88	From 26th Street to 41st Street - SFWMD and DERM
17.19	General Notes, Section and Panel Details	Sheet	1	8	1	8	SFWMD and DERM
17.20	Sections and Details	Sheet	2	16	2	32	SFWMD and DERM
17.21	Other Details	Sheet	0	0	0	0	NA
			<b>17. Structures - Retaining Walls Total</b>		<b>32</b>	<b>472</b>	