

May 20, 2024  
Selena Griffett, P.E.  
City of Fort Pierce  
Project Engineer  
Engineering Department  
100 North US 1  
Fort Pierce, FL 34950

## Change Order to Specific Authorization 1

**Re: Engineering Services – Additional design services for The Historic Downtown Fort Pierce Retrofit Trail\_SUNTRAIL**

Marlin Engineering, Inc. proposes to provide additional services identified below pursuant to the Professional Services Agreement provided by the City of Fort Pierce for Professional Engineering Services RFQ 2019-027. This is Change Order 1 to Specific Authorization 1. The scope of work is as defined in the original authorization. This Change order adds 0.483 miles of trail including the survey and design services.

### I. Additional Limits

(See map) Approx. Total 2550 ft, 0.483 miles



# MARLIN

- The first segment commences along the west side of the FEC railroad track from Boston Ave to Orange Avenue (approximately 745 feet).
- The second segment initiates along Orange Ave, traversing the FEC railroad tracks to N Depot Dr. (approximately 150 feet)
- The third segment begins on N Depot Dr. from Orange Ave to Avenue A. (approximately 480 feet)
- The fourth segment commences east of the FEC railroad tracks from Avenue A to N 2nd St. (approximately 760 feet)
- The fifth segment starts on N 2nd Street, crosses the Moors Creek bridge, and terminates at A E Bakus Ave. (approximately 415

## II. Compensation

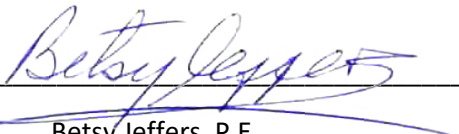
Consultant shall perform the work detailed in this Proposal for a Total fee of \$ 88,177.25. The City shall not be liable for any fee, cost, expense or reimbursable expense or other compensation beyond this amount unless approved in a supplemental work order. Invoicing will be monthly after NTP.

## III. Exclusions from Basic Services

*The following services are excluded from this scope of services:*

- a) Environmental studies and permitting*
- b) Coordination and Preparation of the MMOA*

Submitted by:

  
\_\_\_\_\_  
Betsy Jeffers, P.E.  
Sr. Vice President  
Marlin Engineering

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

Name of Project: City of Fort Pierce Historic Trail  
 County: St. Lucie  
 FPN:  
 FAP No.:

Consultant Name: MARLIN Engineering  
 Consultant No.:  
 Date: 4/25/2024  
 Estimator: Ayce Freda, PE

Staff Classification	Total Staff Hours From "SH Summary -	Project Manager	Sr Design Eng	Project Eng	CADD Tech	Utility Coordinator	Clerical	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
		\$223.57	\$201.50	\$170.50	\$89.40	\$155.00	\$80.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Task 2. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
3a. Roadway Analysis	176	18	35	53	70	0	0	0	0	0	0	0	0	176	\$26,371.26	\$149.84
3b. Roadway Plans	96	10	29	29	28	0	0	0	0	0	0	0	0	96	\$15,526.90	\$161.74
3c. Drainage Analysis	96	10	38	48	0	0	0	0	0	0	0	0	0	96	\$18,076.70	\$188.30
3d. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
3e. Signing & Pavement Marking Analysis	32	3	3	13	13	0	0	0	0	0	0	0	0	32	\$4,653.91	\$145.43
3f. Signing & Pavement Marking Plans	44	4	4	18	18	0	0	0	0	0	0	0	0	44	\$6,378.48	\$144.97
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
<b>Total Staff Hours</b>	444	45	109	161	129	0	0	0	0	0	0	0	0	444		
<b>Total Staff Cost</b>		\$10,060.65	\$21,963.50	\$27,450.50	\$11,532.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$71,007.25</b>	<b>\$159.93</b>

Check = \$71,007.25

SALARY RELATED COSTS:				\$71,007.25
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$71,007.25</b>
Subconsultant: MARLIN Survey				\$17,170.00
Subconsultant:				
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$88,177.25</b>
Optional Services				\$0.00
<b>GRAND TOTAL ESTIMATED FEE:</b>				<b>\$88,177.25</b>

**Project Activity 4: Roadway Analysis**

Estimator:

City of Fort Pierce Historic Trail  
999999-1-32-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

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

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	0	0	
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	0
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	80	80	Design of an additional 0.483 miles
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	47	47	(.483 mile x 110 = 47)
4.10	Temporary Traffic Control Plan Analysis	LS	1	20	20	
4.11	Master TTCP Design Files	LS	1	0	0	
4.12a	Selective Clearing and Grubbing of Existing VegetationField Assessment	LS	1	0	0	
4.12b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	
4.12c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	
4.13	Tree Dispostion Plan	LS	1	0	0	
4.14	Design Variations and Exceptions	LS	1	0	0	
4.15	Design Report	LS	1	0	0	
4.16	Quantities	LS	1	10	10	
4.17	Cost Estimate	LS	1		0	
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
4.19	Other Roadway Analyses	LS	1	0	0	

**Project Activity 4: Roadway Analysis**

<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>
<b>Roadway Analysis Technical Subtotal</b>					<b>157</b>	

**Project Activity 4: Roadway Analysis**

<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>
4.20	Field Reviews	LS	1	0	0	
4.21	Monitor Existing Structures	LS	1	0	0	
4.22	Technical Meetings	LS	1	0	0	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	8	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	8	
<b>Roadway Analysis Nontechnical Subtotal</b>					<b>16</b>	
4.26	Coordination	LS	%	2%	3	
<b>4. Roadway Analysis Total</b>					<b>176</b>	

Carries to Tab 3

**Project Activity 5: Roadway Plans**

Estimator:

City of Fort Pierce Historic Trail  
999999-1-32-01

Representing		Print Name	Signature / Date
FDOT District			
Consultant Name			

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

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	0	0	0	
5.2	Typical Section Sheets						
5.2.1	Typical Sections		EA	1	8	8	One additional Typical Section
5.2.2	Typical Section Details		EA	0	0	0	
5.3	General Notes/Pay Item Notes		Sheet	0	0	0	
5.4	Project Layout		Sheet	0	0	0	
5.5	Plan/Profile Sheet		Sheet	0	0	0	
5.6	Profile Sheet		Sheet	0	0	0	
5.7	Plan Sheet		Sheet	5	10	50	
5.8	Special Profile		Sheet	0	0	0	
5.9	Back-of-Sidewalk Profile Sheet		Sheet	5	2	10	
5.10	Interchange Layout Sheet		Sheet	0	0	0	
5.11	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.12	Intersection Layout Details		Sheet	0	0	0	
5.13	Special Details		EA	0	0	0	
5.14	Cross-Section Pattern Sheets		Sheet	0	0	0	
5.15	Roadway Soil Survey Sheets		Sheet	0	0	0	
5.16	Cross Sections		EA	0	0	0	
5.17	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	Level 1

**Project Activity 5: Roadway Plans**

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.18	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	
5.19	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	
5.20	Utility Adjustment Sheets		Sheet	5	4	20	
5.21	Selective Clearing and Grubbing Sheets						
5.21.1	Selective Clearing and Grubbing		Sheet	0	0	0	
5.21.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	
5.22	Tree Disposition Sheets						
5.22.1	Tree Disposition Plan Sheets		Sheet	0	0	0	
5.22.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	
5.23	Project Control Sheets		Sheet	0	0	0	
5.24	Environmental Detail Sheets		Sheet	0	0	0	
5.25	Utility Verification Sheets (SUE Data)		Sheet	0	0	0	
<b>Roadway Plans Technical Subtotal</b>						<b>88</b>	
5.26	Quality Assurance/Quality Control		LS	%	5%	4	
5.27	Supervision		LS	%	5%	4	
<b>5. Roadway Plans Total</b>						<b>96</b>	

**Project Activity 6a: Drainage Analysis**

Estimator:

City of Fort Pierce Historic Trail  
999999-1-32-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

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

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	0	0	0	
6a.2	Base Clearance Calculations	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 Treatment Swales and Linear Ponds)	Per Cell	0	0	0	
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	
6a.9	Design of Storm Drains	EA	1	40	40	
6a.10	Optional Culvert Material	EA	0	0	0	
6a.11	French Drain Systems	Per Cell	0	0	0	
6a.11.1	Existing French Drain Systems	Per Cell	0	0	0	
6a.12	Drainage Wells	EA	0	0	0	
6a.13	Drainage Design Documentation Report	LS	1	16	16	
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	0	0	
6a.16	Quantities for EQ Report	LS	1	0	0	
6a.17	Cost Estimate	LS	1	0	0	
6a.18	Technical Special Provisions / Modified Special Provisions	LS	1	0	0	
6a.19	Hydroplaning Analysis	LS	1	0	0	
6a.20	Existing Permit Analysis	LS	1	40	40	
6a.21	Other Drainage Analysis	LS	1	0	0	
6a.22	Noise Barrier Evaluation	LS	1	0	0	
<b>Drainage Analysis Technical Subtotal</b>					<b>96</b>	
6a.23	Field Reviews	LS	1	0	0	
6a.24	Technical Meetings	LS	1	0	0	Meetings are listed below
6a.25	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.26	Quality Assurance/Quality Control	LS	%	0%	0	
6a.27	Independent Peer Review	LS	%	0%	0	
6a.28	Supervision	LS	%	0%	0	
<b>Drainage Analysis Nontechnical Subtotal</b>					<b>0</b>	
6a.29	Coordination	LS	%	0%	0	
<b>6a. Drainage Analysis Total</b>					<b>96</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	0	0	0			0
Agency	EA	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	<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 6a.24

Carries to Tab 3

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

Estimator:

City of Fort Pierce Historic Trail  
999999-1-32-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

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

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	
19.2	No Passing Zone Study	LS	1	0	0	
19.3	Signing and Pavement Marking Master Design File	LS	1	20	20	1" = 20' / 24" x 36"/10 sheets S&M
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	
19.5	Sign Panel Design Analysis	EA	1	0	0	
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	
19.7	Quantities for EQ Report	LS	1	8	8	
19.8	Cost Estimate	LS	1	0	0	
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
19.10	Other Signing and Pavement Marking	LS	1	0	0	
<b>Signing and Pavement Marking Analysis Technical Subtotal</b>					<b>28</b>	
19.11	Field Reviews	LS	1	0	0	
19.12	Technical Meetings	LS	1	0	0	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	1	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	1	
<b>Signing and Pavement Marking Analysis Nontechnical Subtotal</b>					<b>2</b>	
19.16	Coordination	LS	%	5%	2	
<b>19. Signing and Pavement Marking Analysis Total</b>					<b>32</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Sign Panel Design	EA	0	0	0			0
Queue Length Analysis	EA	0	0	0			0

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

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
	Local Governments (cities, counties)	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 (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>

Carries to 19.12

Carries to Tab 3

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

Estimator:

City of Fort Pierce Historic Trail  
999999-1-32-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

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

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	0	0	0	0	
20.2	General Notes/Pay Item Notes		Sheet	0	0	0	0	
20.3	Project Layout		Sheet	0	0	0	0	
20.4	Plan Sheet		Sheet	10	4	10	40	1" = 20' / 24" x 36"/10 sheets inc. Signing and Marking
20.5	Typical Details		EA	0	0		0	
20.6	Guide Sign Worksheets		EA	0	0		0	
20.7	Traffic Monitoring Site		EA	0	0		0	
20.8	Cross Sections		EA	0	0		0	
20.9	Special Service Point Details		EA	0	0		0	
20.10	Special Details		LS	1	0		0	
20.11	Interim Standards		LS	1	0		0	
<b>Signing and Pavement Marking Plans Technical Subtotal</b>						<b>10</b>	<b>40</b>	
20.12	Quality Assurance/Quality Control		LS	%	5%		2	
20.13	Supervision		LS	%	5%		2	
<b>20. Signing and Pavement Marking Plans Total</b>						<b>10</b>	<b>44</b>	