

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date:	January 6, 2026	<input checked="" type="checkbox"/> [X]	Consent	<input type="checkbox"/> []	Regular
		<input type="checkbox"/> []	Workshop	<input type="checkbox"/> []	Public Hearing
Department:	Engineering and Public Works Department				
Submitted By:	Engineering and Public Works Department				
Submitted For:	Roadway Production Division				

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Service Authorization No. 3 (CSA) to the Intersection Improvements Annual Design Services Contract (R2023-0477) dated April 18, 2023 (Contract) with Masse Consulting Services, LLC (MCS) in the amount of \$368,949.24 for the SW 18th Street and Powerline Road Intersection Improvements (Project).

SUMMARY: Approval of this CSA will provide the professional engineering services necessary to provide a third eastbound left turn lane on SW 18th Street on the west approach of the intersection. This Contract was presented to the Goal Setting Committee (GSC) on January 5, 2022 and the GSC established an Affirmative Procurement Initiative (API) of a 20% minimum mandatory Small Business Enterprise (SBE) participation and an SBE evaluation preference. MCS committed to 85% SBE participation. The proposed SBE participation for this CSA is 96.40%. To date, the overall SBE participation achieved on this Contract is 98.80%. MCS has an office located in Palm Beach County (County) and is a certified SBE company. **This Project is included in the Five-Year Road Program. District 4 (YBH)**

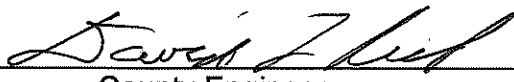
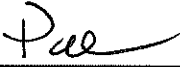
Background and Justification: On April 18, 2023, the Board of County Commissioners (BCC) approved the Contract with MCS to provide the professional services for intersection improvements throughout the County. The fee, as detailed in Exhibit B of the attached CSA, has been negotiated as just and reasonable compensation as follows:

Basic Services (Lump Sum)	\$ 214,173.60	(Roadway Analysis and Plans, Drainage Analysis and Plans, Permitting, Environmental, Signing and Pavement Marking)
Reimbursable Services (Not to Exceed)	\$ 69,991.56	(Permit Fees, Prints)
Optional Services (Not to Exceed)	\$ 84,784.08	(Post Design)
Total:	\$368,949.24	

After reviewing the attached CSA and finding it in proper order, the Engineering and Public Works Department recommends BCC approval.

Attachments:

1. Location Map
2. CSA No. 3 with Exhibits A, B, C, D and Ebix Insurance Compliance (2)

Recommended by:		12 DEC 2025
YBH/TEL	County Engineer	Date
KOK		12/18/25
Approved By:	Deputy County Administrator	Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2026	2027	2028	2029	2030
Capital Expenditures	\$498,950	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPACT	\$498,950	-0-	-0-	-0-	-0-
# ADDITIONAL FTE					
POSITIONS (Cumulative)	-0-	-0-	-0-	-0-	-0-

Is Item Included in Current Budget?

Yes ☒ No ☐

Is this item using Federal Funds?

Yes ☐ No ☒

Is this item using State Funds?

Yes ☐ No ☒

Budget Account No:

Fund 3500 Dept 361 Unit 2026 Object 6505

Recommended Sources of Funds/Summary of Fiscal Impact:

Transportation Improvement Fund/

SW 18th Street Powerline Rd Intersection Imp.

Brief Description: New consultant service authorization (CSA) #3

CSA #3

• Basic Services	\$214,173.60
• Reimbursable	\$ 69,991.56
• Optional Services	\$ 84,784.08
Total CSA #3	\$368,949.24

Estimated Staff Costs

• Roadway Production	\$ 65,000.00
• Roadway Production: Right-of-Way	\$ 15,000.00
• Survey	\$ 15,000.00
• Traffic	\$ 35,000.00
Total Staff Costs	\$130,000.00

Fiscal Impact

\$498,949.24

C. Departmental Fiscal Review:

Danny Runkelberg

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:

Line Match 12/16/2025
OFMB CPD/IS MT 12/16

Randi Mark 12/16/25
Contract Dev. and Control 26 12-16-25

B. Approved as to Form
and Legal Sufficiency:

[Signature] 12/17/25
Assistant County Attorney

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.

SW 18TH STREET AND POWERLINE ROAD INTERSECTION IMPROVEMENTS

Palm Beach County Project #2024508



LOCATION MAP

ATTACHMENT 1

CONSULTANT SERVICE AUTHORIZATION NO. 3
UNDER THE INTERSECTION IMPROVEMENTS ANNUAL DESIGN SERVICES
CONTRACT

Project Name: **SW 18th Street and Powerline Road Intersection Improvements**

Project No: **2024508**

Commission District No.: **4**

	SBE
Participation for this authorization	96.40%
Participation to date for this Contract	98.80%
Contract Commitment	85%
This authorization is under the EBO Ordinance	

PALM BEACH COUNTY

BOARD OF COUNTY COMMISSIONERS

Account No.: 3500-361-2026-6505

Consultant Service Authorization No. 3 (CSA) under the Intersection Improvements Annual Design Services Contract dated April 18, 2023 (R2023-0477)(CONTRACT), between the COUNTY and the CONSULTANT identified herein is for the services described in **EXHIBIT A** and **EXHIBIT B** for this CSA.

1. CONSULTANT: Masse Consulting Services, LLC
2. Address: 2101 Vista Parkway, Suite 277, West Palm Beach, Florida 33411
3. CONSULTANT shall begin work promptly on the requested Services, per the schedule attached as part of **EXHIBIT A**.
4. Scope of Services to be provided by CONSULTANT: Provide professional engineering services to Palm Beach County for the SW 18th Street and Powerline Road Intersection Improvements project. Provide intersection improvements to provide a third eastbound left turn lane on SW 18th Street on the west approach of the intersection in accordance with the attached **EXHIBIT A** dated March 13, 2025.
5. The compensation to be paid CONSULTANT for providing the requested services as detailed in **EXHIBIT B** shall be:

<input checked="" type="checkbox"/> Basic Services in a lump sum fee of	\$214,173.60
<input checked="" type="checkbox"/> Reimbursable Expenses capped at	\$ 69,991.56
<input checked="" type="checkbox"/> Optional Services capped at	\$ 84,784.08
Totaling	\$368,949.24

☒ OEBO Schedules 1 & 2 **EXHIBIT C**

☒ Project History **EXHIBIT D**

6. All terms of the CONTRACT shall apply to this CSA.

This Contract, including all Schedules, Forms, and attachments, is subject to the County Emergency Ordinance 2025-014, approved by the BCC on June 3, 2025. As a result, the M/WBE participation will not be enforced.

CONSULTANT SERVICE AUTHORIZATION NO. 3
UNDER THE INTERSECTION IMPROVEMENTS ANNUAL DESIGN SERVICES
CONTRACT

IN WITNESS WHEREOF, this CSA is accepted as of the date signed by the COUNTY below, subject to the terms and conditions of the aforementioned CONTRACT.

CONSULTANT: Masse Consulting Services, LLC

Federal ID: 84-2958439

COUNTY:

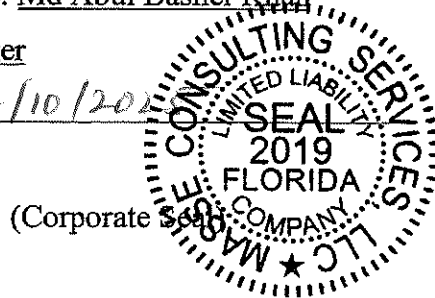
Approved as to Terms and Conditions

Signed: Basher Khan

Typed Name: Md Abul Basher Khan

Title: Manager

Date: 12/10/2025



By: Morton L. Rose

Typed Name: Morton L. Rose, P.E.

Title: Division Director

ATTEST WITNESS:

Signed: Fenson Masse

Typed Name: FENSON MASSE

Title: MANAGER

Date: 12/10/2025

CONSULTANT SERVICE AUTHORIZATION NO. 3
UNDER THE INTERSECTION IMPROVEMENTS ANNUAL DESIGN SERVICES
CONTRACT

COUNTY: Palm Beach County, a Political
Subdivision of the State of Florida, by and
through its Board of County Commissioners

Signed: _____
Typed Name: Sara Baxter
Title: Mayor
Date: _____

ATTEST:
Michael A. Caruso
Clerk of the Circuit Court & Comptroller

By: _____

Deputy Clerk

Approved as to Form and Legal Sufficiency

By:  _____
Typed Name: Yelizaveta B. Herman
Title: Assistant County Attorney

*n:\roadway\ccna\annuals\intersection\masse\2024\20
24508 sw 18th at powerline\revised-csa and
supplement template.docx*

OK to proceed
MK/3-26-25
CB/4-1-25

EXHIBIT A-Page 1 of 7

SCOPE OF SERVICES
FOR
SW 18TH STREET AND POWERLINE ROAD
INTERSECTION IMPROVEMENTS
PALM BEACH COUNTY PROJECT NO. 2024508

PREPARED FOR:
PBC Engineering and Public Works Department
Roadway Production Division
2300 N. Jog Road, 3rd floor W., West Palm Beach, FL 33411



PREPARED BY:
MASSE CONSULTING SERVICES, LLC
2101 Vista Parkway, Suite 277, West Palm Beach, 33411
Mobile Phone: (561) 568-3197
bkhan@masseconsultingfirm.com

September 20, 2024
Revised: September 23, 2024
Revised: December 20, 2024
Revised: January 10, 2025
Revised: January 23, 2025
Revised: March 13, 2025

SCOPE OF SERVICES

SW18TH STREET AND POWERLINE ROAD INTERSECTION IMPROVEMENTS

Palm Beach County Project No.: 2024508

I. INTRODUCTION

Palm Beach County (County) seeks to issue a Consultant Service Authorization (CSA) under the Intersection Improvements Annual Design Services Contract (R2023-0477) to Masse Consulting Services, LLC (Masse Consulting) for the intersection improvements at SW 18th Street and Powerline Road (project). The primary objective of the project includes adding a third eastbound (EB) left turn lane on SW 18th Street on the west leg of the intersection. Masse Consulting, in collaboration with its sub-consultants, Pacifica Engineering Services, LLC, Simmons & White, Inc., Scalar Consulting Group Inc., and Ritzel-Mason, Inc., will provide professional engineering services to design and prepare construction plans for these improvements.

The addition of the third left turn lane will be accomplished as follows:

- Retain the existing median curb and gutter on SW 18th Street at the west leg.
- Convert the EB inner through lane into a third northbound (NB) left turn lane on SW 18th Street at the west leg.
- Widen the existing pavement on SW 18th Street to provide an EB through-lane with lane transition from the west leg to the east leg across the intersection. The EB Lane transition may require reduction or removal of the existing right-turn lane at Bluewater Cir. A replacement of the existing right-turn lane into Bluewater Cir, which will require additional right-of-way acquisition, is not included in this proposal.
- Widen the existing pavement on the east side of Powerline Road to accommodate the third left turn lane from SW 18th Street.
- Introduce an eastbound bike lane on SW 18th Street within the project limits.

The limits of the project will be as follows:

- SW 18th Street: Extending approximately 1,500 feet west and 950 feet east of the intersection.
- Powerline Road: Extending approximately 500 feet south and 1,800 feet north of the intersection.

The design and construction documents will adhere to the following regulatory standards and guidelines:

- Palm Beach County Thoroughfare Roadway Design Procedures (January 2019)
- Palm Beach County Thoroughfare Roads Typical Sections (April 2018)
- Manual of Uniform Minimum Standards for Design, Construction, and Maintenance for Street and Highways, commonly known as the Florida Greenbook (2018 Edition)
- Lake Worth Drainage District Right-of-Way Operating Policies (December 13, 2023)
- FDOT Drainage Manual (January 2024) and all other applicable manuals
- FDOT FY 2024-25 Standard Plans for Road Construction
- SFWMD Environmental Resource Permit Information Manual 2024
- AASHTO "Geometrics Design of Highway and Streets", latest edition
- Manual on Uniform Traffic Control Devices (MUTCD), latest edition

SCOPE OF SERVICES

SW18TH STREET AND POWERLINE ROAD INTERSECTION IMPROVEMENTS
Palm Beach County Project No.: 2024508

II. SCOPE OF SERVICES

The scope of services is categorized into three sections: Basic, Reimbursable, and Optional Services.

A. **Basic Services**

Masse Consulting will provide the following services:

1. **General Tasks**

- 1.1 Project Manager Coordination Meetings: Five plan review meetings with the County (Typical Section & Masterplan, 35%, 65%, 96%, and 100% plans)
- 1.2 Field Visits: Two field visits.
- 1.3 Post Design Services (see task description under Section C. Optional Services).

2. **Roadway Analysis**

The specific tasks include:

- 2.1 Typical Section Package
- 2.2 Horizontal/Vertical Master Design Files
- 2.3 Computation Book and Quantities
- 2.4 Cost Estimate

3. **Roadway Plans**

The roadway construction plans with the aerial background will be prepared in compliance with the approved Typical Section and Master Plans. The plans will be prepared on 11"x 17" at a scale of 1"= 40' horizontally and 1"= 4' vertically. The set of plans will include:

- 3.1 Key Sheet
- 3.2 Typical Sections
- 3.3 General Notes/Pay Item Notes/Summary of Quantities
- 3.4 Profile Sheet
- 3.5 Plan Sheet
- 3.6 Driveway Profiles
- 3.7 Miscellaneous Details
- 3.8 Roadway Soil Survey Sheets
- 3.9 Cross Sections

4. **Drainage Analysis**

This analysis involves designing systems for stormwater collection, treatment, and attenuation. The specific tasks include:

- 4.1 Drainage Map Hydrology
- 4.2 Design of Storm Drain
- 4.3 French Drain Systems

SCOPE OF SERVICES

SW18TH STREET AND POWERLINE ROAD INTERSECTION IMPROVEMENTS Palm Beach County Project No.: 2024508

4.4 **Drainage Design Report:** this includes showing computations for water quality and attenuation requirements. The following storm events will be analyzed: 3yr-1day, 10yr-1day, and 25yr-3day.

5. Drainage Plans

The specific tasks under Drainage Plans are:

- 5.1 Drainage Area Map
- 5.2 Drainage Structures
- 5.3 Miscellaneous Drainage Detail Sheets
- 5.4 SWPPP Sheets

6. Permits and Environmental

Permits from the South Florida Water Management District (SFWMD) and the Lake Worth Drainage District (LWDD) are required. The following services will be provided:

- 6.1 Pre-Application Meeting
- 6.2 Existing Permit Analysis
- 6.3 Complete, submit, and track all required permit applications until project completion: this includes SFWMD and LWDD permit applications and response to requested additional information and obtain permits.

7. Utilities

Masse Consulting Services will assist the County in the utility coordination by providing plans to the County for initial utility contact and all other utility coordination, preparing meeting minutes, and following up on action items. In addition to these general tasks, Masse Consulting will provide the following services:

- 7.1 Develop Initial Utility Contact Plan
- 7.2 Incorporate existing utility facilities.
- 7.3 Prepare conflict matrix.
- 7.4 Identify and incorporate conflict resolutions.
- 7.5 Attend three (3) Meetings.

8. Signing and Pavement Marking Analysis

The tasks include:

- 8.1 Master Design Files
- 8.2 Quantities
- 8.3 Cost Estimate

9. Signing and Pavement Marking Plans

Plans will adhere to the Palm Beach County Typical Details for Pavement Markings, Signing & Geometrics (T-P-24) and include:

- 9.1 Key sheet

SCOPE OF SERVICES

SW18TH STREET AND POWERLINE ROAD INTERSECTION IMPROVEMENTS
Palm Beach County Project No.: 2024508

- 9.2 General Notes/Pay Item Notes/Summary of Quantities
- 9.3 Plan Sheet

10. Traffic Signal Services by Simmons & White, Inc.

Services include preparing signalization plans for the relocation of signals and permitting. See attached scope of services from Simmons & White, Inc.

B. Reimbursable Services

1. Engineering Survey by Ritzel-Mason, Inc.

See the attached scope of services from Ritzel-Mason, Inc.

2. Geotechnical Services by Pacifica Engineering Services, LLC

See attached scope of services from Pacifica Engineering Services, LLC.

3. Reimbursable Expenses

a. Masse Consulting

This includes reproduction costs (four sets in 11"x17" color) and permit fees (SFWMD and LWDD).

b. Simmons & White

Reproduction costs for plans and technical special provisions.

C. Optional Services

1. Post Design Services by Masse Consulting

Masse Consulting will provide post-design services during the construction phase, including responses to RFI during the bid, shop drawing reviews and clarifying plans.

2. Subsurface Utility Engineering (SUE) and Pothole Services by Ritzel-Mason, Inc.

Ritzel-Mason can provide pothole services for potential utility conflicts with road and signal improvements. See attached scope of services by Ritzel-Mason, Inc.

3. Lighting Analysis Services by Scalar Consulting Group Inc.

See the attached scope of services from Scalar Consulting Group Inc. for the lighting analysis of the intersection and along Powerline Rd.

D. DELIVERABLES AND SUBMITTALS

Submittals will be provided for the Master Plan, 35%, 65%, 96%, 100%, and final design phases in compliance with the County's Thoroughfare Design Procedures. The phase submittals will be provided in PDF format. The final signed and sealed construction plans (4 sets in 11"x17") will be provided in both PDF and hard copy formats.

SCOPE OF SERVICES

SW18TH STREET AND POWERLINE ROAD INTERSECTION IMPROVEMENTS
Palm Beach County Project No.: 2024508

E. SCHEDULE

Final construction plans are expected to be completed within 12 months from the Notice to Proceed (NTP). A tentative schedule is enclosed.

F. EXCLUDED SERVICES

- Public Involvement and Outreach Meeting
- Traffic Control Plans (MOT)
- Utility Adjustment Plans

PROJECT SCHEDULE

For

SW 18th Street and Powerline Road Intersection Improvements

PALM BEACH COUNTY PROJECT NO.: 2024508

Notice to Proceed Date: 5/5/2025

ID	TASK NAME	START	END	DAYS	WORK DAYS
1	Data Collection				
1.1	Survey Data & Geotechnical Collection 1st Submittal	Mon 5/05/25	Mon 6/16/25	43	31
1.2	County review of Survey Data, 1st Review	Tue 6/17/25	Mon 7/07/25	21	15
1.3	Revise and Resubmit Survey Data 2nd Submittal	Tue 7/08/25	Thu 7/17/25	10	8
1.4	County review of Survey Data, 2nd Review	Fri 7/18/25	Thu 8/07/25	21	15
1.5	Survey Data Final Submittal	Fri 8/08/25	Mon 8/18/25	11	7
2	Phase IA				
2.1	Prepare Initial Utility Contact Plans	Thu 5/08/25	Mon 5/12/25	5	3
2.2	Distribution of Utility Plans & Recieve Markups	Wed 5/14/25	Wed 6/04/25	22	16
3	PHASE IB-IC TYPICAL SECTION AND MASTERPLAN				
3.1	Prepare & Submit Typical Section and Master Plans	Tue 6/17/25	Wed 7/16/25	30	22
3.2	County Review Typical Section and Master Plans	Thu 7/17/25	Wed 8/06/25	21	15
4	PHASE ID 35% SUBMITTAL				
4.1	Prepare & Submit 35% Plans	Tue 8/19/25	Wed 9/17/25	30	22
4.2	County Review 35% Plans	Thu 9/18/25	Wed 10/08/25	21	15
5	65% Plans Phase II				
5.1	Prepare & Submit 65% Plans	Thu 8/07/25	Mon 9/15/25	40	28
5.2	County Review 65% Plans	Tue 9/16/25	Mon 10/06/25	21	15
5.3	Utility Coordination Meetings (1st Meeting)	Tue 10/14/25	Tue 10/14/25	1	1
5.4	Utility Pothole information provided by owners	Wed 10/15/25	Mon 11/17/25	34	24
5.5	Utility Coordination Meeting (2nd Meeting)	Tue 11/25/25	Tue 11/25/25	1	1
5.6	Prepare & Submit Permit Applications	Wed 11/26/25	Tue 12/09/25	14	10
6	96% Plans Phase III				
6.1	Prepare & Submit 96% Plans (w utility information)	Wed 12/10/25	Mon 1/19/26	41	29
6.2	County Review 96% Plans	Tue 1/20/26	Mon 2/09/26	21	15
6.3	Utility Coordination Meeting (Final Meeting)	Tue 2/17/26	Tue 2/17/26	1	1
7	100% Plans Phase IV				
7.1	Prepare/Submit 100% Plans	Wed 2/18/26	Tue 3/10/26	21	15
7.2	County Review 100% Plans	Wed 3/11/26	Tue 3/31/26	21	15
8	Final/Construction Plans				
8.1	Prepare & Submit Final/Construction Plans	Wed 4/01/26	Tue 4/14/26	14	10

Project Staff Hour Summary

Name of Project:		SW 18TH STREET AND POWERLINE ROAD INTERSECTION IMPROVEMENTS				Consultant Name:		MASSE CONSULTING SERVICES, LLC	
PBC Project Number:		2024508				Consultant Number:		2024-108	
						Date:		1/23/2025	
Task Description	Total Staff Hours	Staff Categories					Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task
		Project Manager	Senior Engineer	Project Engineer	Engineering Intern	CADD/Computer Technician			
		\$67.00 ✓	\$62.00 ✓	\$47.00 ✓	\$33.00 ✓	\$30.00			
BASIC SERVICES									
1 General Tasks	42 ✓	8 ✓	17 ✓	17 ✓	0 ✓	0	42	\$2,389.00	\$56.88
2 Roadway Analysis	163 ✓	33 ✓	41 ✓	57 ✓	16 ✓	16 ✓	163	\$8,440.00	\$51.78
3 Roadway Plans	451.6 ✓	94 ✓	106 ✓	165.60 ✓	43 ✓	43 ✓	451.6	\$23,362.20	\$51.73
4 Drainage Analysis	88 ✓	18 ✓	22 ✓	30 ✓	9 ✓	9 ✓	88	\$4,547.00	\$51.67
5 Drainage Plans	94 ✓	19 ✓	24 ✓	30 ✓	9 ✓	12 ✓	94	\$4,828.00	\$51.36
6 Permits & Environmental	104 ✓	22 ✓	26 ✓	36 ✓	10 ✓	10 ✓	104	\$5,408.00	\$52.00
7 Utilities	90 ✓	18 ✓	22 ✓	32 ✓	9 ✓	9 ✓	90	\$4,641.00	\$51.57
8 Signing and Pavement Marking Analysis	46 ✓	9 ✓	11 ✓	16 ✓	5 ✓	5 ✓	46	\$2,352.00	\$51.13
9 Signing and Pavement Marking Plans	66 ✓	13 ✓	17 ✓	22 ✓	7 ✓	7 ✓	66	\$3,400.00	\$51.52
Total Staff Hours (Basic Services)	1144.6 ✖	234 ✓	286 ✓	405.6 ✓	108 ✓	111 ✓	1144.6		\$51.87
Total Staff Cost (Basic Services)		\$15,678.00 ✖	\$17,732.00 ✖	\$19,083.20 ✖	\$3,564.00 ✖	\$3,330.00 ✖		\$59,367.20 ✓	
OPTIONAL SERVICES									
1 Post Design	120	48	48	24	0	0	120	\$7,320.00	\$61.00
Total Staff Hours (Optional Services)	120	48	48	24	0	0	120		
Total Staff Cost (Optional Services)		\$3,216.00	\$2,976.00	\$1,128.00	\$0.00	\$0.00		\$7,320.00	

EBO SBE Calculation for this Fee Summary		SBE \$	Non-SBE \$
Prime-Masse Consulting Services, LLC		\$201,741.60 ✓	
Ritzel-Mason, Inc.		\$68,307.44 ✓	
Simmons & White, Inc.		\$68,612.00 ✓	
Pacifica Engineering Services, LLC		\$17,028.20 ✓	
Scalar Consulting Group Inc.			\$13,260.00 ✓
Totals		\$355,689.24 ✖	\$13,260.00 ✓
SBE % Achieved		96.40% ✓	
SBE % Committed		85.00% ✓	

Basic Services:	
Salary Related Costs:	\$59,367.20 ✓
Contract Multiplier	3.00 ✓
Subtotal Basic Services (Masse Consulting Services, LLC):	\$178,101.60 ✓
Simmons & White, Inc.:	\$36,072.00 ✓
Basic Services Total:	\$214,173.60 ✖

Reimbursables:	
Masse Consulting Services, LLC (Permits)	\$1,500.00 ✓
Masse Consulting Services, LLC (Reproduction/Prints)	\$180.00 ✓
Simmons & White, Inc.	\$200.00 ✓
Pacifica Engineering Services, LLC	\$17,028.20 ✓
Ritzel-Mason, Inc.	\$51,083.36 ✓
Reimbursable Total:	\$69,991.56 ✖

Optional Services:	
Masse Consulting Services, LLC (Unloaded)	\$7,320.00 ✓
Contract Multiplier	3.00 ✓
Masse Consulting Services, LLC (Loaded)	\$21,960.00 ✓
Ritzel-Mason, Inc.	\$17,224.08 ✓
Simmons & White, Inc.	\$32,340.00 ✓
Scalar Consulting Group Inc.	\$13,260.00 ✓
Optional Services Total:	\$84,784.08 ✖

GRAND TOTAL ESTIMATED FEES: \$368,949.24

Project Activity 1: General Tasks						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
1.1	Project Manager Progress Meetings	EA	5	6	30 ✓	5 review meetings with PBC; 2 persons includes meeting preparation
1.2	Field Visits	EA	2	6	12 ✓	Two field visits (6 hrs x 2), includes travel time
1. General Tasks Total					42 ✓	
1.3	Post Design Services	LS	1	120	120 ✓	Optional services including RFIs during bidding & Construction, Pre-Construction Meetings, Shop drawing reviews

Project Activity 2: Roadway Analysis						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
2.1	Typical Section Package	LS	1	6	6 ✓	Two typical sections, 1-18th St, 1-Powerline Rd
2.2	Horizontal /Vertical Master Design Files	LS	1	125	125 ✓	For horizontal/vertical master design files
2.3	Computation Book and Quantities	EA	4	6	24 ✓	65%, 96%, 100% and final submittals
2.4	Cost Estimate	EA	4	2	8 ✓	65%, 96%, 100% and final submittals
2. Roadway Analysis Total					163 ✓	

Project Activity 3: Roadway Plans						
Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
3.1	Key Sheet	Sheet	1	6	6 ✓	Cover sheet
3.2	Typical Sections	EA	2	8	16 ✓	2 Typical Sections
3.3	General Notes/Pay Item Notes/Summary of Quantities	Sheet	2	8	16 ✓	General Notes, Pay Item Notes, and Summary of Quantities
3.4	Profile Sheet	Sheet	9	12	108 ✓	9 roadway profile sheets
3.5	Plan Sheet	Sheet	9	12	108 ✓	9 roadway plan sheets
3.6	Driveway Profiles	EA	5	2	10 ✓	5 driveways (Two along 18th St and 2 for LWDD (assume LWDD wants one on either side of canal) + 1 for FPL on Powerline Rd)
3.7	Miscellaneous Details	EA	1	8	8 ✓	Cover all roadway details
3.8	Roadway Soil Survey Sheets	Sheet	1	2	2 ✓	Insert Soil Survey Sheets in Plan Set provided by geotechnical consultant
3.9	Cross Sections	EA	74	2.4	177.6	24 cross sections along Powerline Rd @ 100' spacing; 50 cross sections along SW 18th Street @ 50' spacing
3. Roadway Plans Total					451.6 ✓	

Project Activity 4: Drainage Analysis						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Drainage Map Hydrology	LS	1	12	12 ✓	Includes all tasks related to setting up CADD design files, importing, and cleaning up the survey data
4.2	Design of Storm Drain	EA	10	2	20 ✓	Anticipate 10 new/modified inlets along with new piped drainage system for Powerline Northbound
4.3	French Drain Systems	LS	1	16	16 ✓	For water quality
4.4	Drainage Design Report	LS	1	40	40 ✓	Drainage calculations and report
4. Drainage Analysis Total					88 ✓	

Project Activity 5: Drainage Plans						
Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Drainage Area Map	Sheet	2	16	32 ✓	2 sheets, 1:200 scale
5.2	Drainage Structures	EA	6	3	18 ✓	Drainage structures anticipated needed for project
5.3	Miscellaneous Drainage Detail Sheets	Sheet	1	8	8 ✓	French drain details, control structure, etc.
5.4	SWPPP Sheets	Sheet	9	4	36 ✓	For SFWMD ERP approval
5. Drainage Plans Total					94 ✓	

Project Activity 6: Permits and Environmental						
Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
6.1	Pre-Application Meeting	LS	2	4	8 ✓	Meeting to discuss LWDD and SFWMD permit requirements including preparing meeting agenda & minutes.
6.2	Existing Permit Analysis	LS	1	16	16 ✓	Research and review existing permits
6.3	Complete and Submit All Required Permit Applications	LS	1	80	80 ✓	SFWMD ERP, LWDD, including RAIs
6. Permits and Environmental Total					104 ✓	

Project Activity 7: Utilities						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Develop Initial Utility Contact Plan	EA	1	6	6 ✓	To be used by PBC to facilitate markups by facility owners
7.2	Incorporate existing utility facilities	LS	1	24	24 ✓	Utilities identified by PBC in markup request letter + updating plans to show any relocations to be done prior to construction by facility owner. Assume multiple markups per utility Level D and B
7.3	Utility Conflict Matrix	LS	1	24	24 ✓	Develop conflict matrix
7.4	Identify and incorporate conflict resolutions	LS	1	12	12 ✓	Update conflict matrix with resolutions (for 3 meetings)
7.5	Meetings	EA	3	8	24 ✓	3 meetings (65%, 96%, and 100%), 2 persons; includes meeting preparation, conduct meetings, and develop minutes
7. Utilities Total					90 ✓	

Project Activity 8: Signing & Marking Analysis						
Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.1	Master Design Files	LS	1	16	16 ✓	
8.2	Quantities	EA	3	6	18 ✓	65%, 96%, and 100% submittals
8.3	Cost Estimate	EA	3	4	12 ✓	65%, 96%, and 100% submittals
8. Signing and Pavement Marking Analysis Total					46 ✓	

Project Activity 9: Signing & Pavement Marking Plans						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
9.1	Key Sheet	Sheet	1	4	4 ✓	
9.2	General Notes/Pay Item Notes/Summary of Quantities	Sheet	1	8	8 ✓	
9.3	Plan Sheet	Sheet	9	6	54 ✓	
9. Signing and Pavement Marking Plans Total					66 ✓	

REIMBURSABLE EXPENSES (PERMIT FEES)		
Name of Project: SW 18TH STREET AND POWERLINE ROAD INTERSECTION IMPROVEMENTS		
PBC Project Number: 2024508		
Agency	Amount	Comments
South Florida Water Management District	\$ ✓1,200.00	Permit Modification (See enclosed SFWMD permit application fee schedule)
Lake Worth Drainage District	\$ ✓300.00	Permit Modification (See enclosed LWDD General Permit Fees)
Total Fee =	\$ ✓1,500.00	

PERMIT APPLICATION FEE SCHEDULE
(Effective 8/7/2016)

Environmental Resource Permits

New Individual or Conceptual Permit (excludes Agriculture, Mitigation Bank)

- Project area < 10 acres; no wetlands or surface waters; no boat slips.....\$ 2,000
- Project area < 10 acres; < 1 acre wetland or surface water; < 10 boat slips.....\$ 3,500
- Project area < 40 acres; < 3 acres wetlands or surface waters; < 30 boat slips.....\$ 5,500
- Project area < 100 acres; < 10 acres wetlands or surface waters; < 50 boat slips.....\$ 7,500
- Project area < 640 acres; < 50 acres wetlands or surface waters; < 50 boat slips.....\$ 13,125
- Project area > 640 acres; > 50 acres wetlands or surface waters; > 50 boat slips.....\$ 25,000

New Individual Agriculture or Silviculture Permit

- Project area < 10 acres; < 1 acre wetland or surface water.....\$ 859
- Project area < 40 acres; < 3 acres wetlands or surface waters.....\$ 2,444
- Project area < 100 acres; < 10 acres wetlands or surface waters.....\$ 4,029
- Project area < 640 acres; < 50 acres wetlands or surface waters.....\$ 5,284
- Project area > 640 acres; > 50 acres wetlands or surface waters.....\$ 6,605

Individual or Conceptual Permit ~~Major Modification~~ (excludes Agriculture, Mitigation Banks)

- Project area < 10 acres; no wetlands or surface waters; no boat slips.....\$ 1,200
- Project area < 10 acres; < 1 acre wetland or surface waters; < 10 boat slips.....\$ 2,100
- Project area < 40 acres; < 3 acres wetlands or surface waters; < 30 boat slips.....\$ 3,300
- Project area < 100 acres; < 10 acres wetlands or surface waters; < 50 boat slips.....\$ 4,500
- Project area < 640 acres; < 50 acres wetlands or surface waters; < 50 boat slips.....\$ 7,875
- Project area > 640 acres; > 50 acres wetlands or surface waters; > 50 boat slips.....\$ 15,000

Individual Agriculture or Silviculture Permit ~~Major Modification~~

- Project area < 10 acres; < 1 acre wetland or surface water.....\$ 515
- Project area < 40 acres; < 3 acres wetlands or surface waters.....\$ 1,466
- Project area < 100 acres; < 10 acres wetlands or surface waters.....\$ 2,417
- Project area < 640 acres; < 50 acres wetlands or surface waters.....\$ 3,170
- Project area > 640 acres; > 50 acres wetlands or surface waters.....\$ 3,963

Individual or Conceptual Permit ~~Minor Modification~~ (includes Mitigation Banks)

- Time Extension of Permit (not associated with SB/HB).....\$ 500
- Time Extension of Permit (associated with SB/HB).....\$ 0
- Minor errors not requiring technical review.....\$ 0
- Transfer of ownership.....\$ 0
- Transfer from construction to operation phase.....\$ 0
- All other minor modifications (Letter Modification).....\$ 250

New Individual or Conceptual Permit for a Mitigation Bank

- Permit area < 100 acres.....\$ 7,500



Lake Worth Drainage District Right-of-Way Operating Policies
Chapter 1 – General Provisions

1.3.3 General Permit Fees

Permit fees will be doubled if improvements are constructed or installed without a permit or backfilled without inspection.

General Fee Type	Fee		Notes
Minor Permit Modification(s)	\$ 300.00 ✓		Minor modifications and/or revisions made may be requested by the Applicant after the issuance of a Permit. Major modifications and/or revisions will be considered new permit applications and will be subject to the current fee schedule.
Permit Transfer to New Owner	\$ 300.00		Requests for permit transfer for change of property ownership or to transfer operation/management responsibilities must be submitted within 60 days of purchase of property by new owner or assumption of operation/management responsibilities to a new entity. A new application and applicable permit fees will be required beyond this timeframe.
Transfer to Operating Entity	\$ 300.00		Requests for permit conversion and transfer from construction phase to operation phase must be submitted within 60 days after LWDD has issued a Final Acceptance to the current property owner.
Permit Extension	\$ 300.00		Requests to extend a permit must be submitted prior to permit expiration; otherwise, permittee may be required to submit a new permit application subject to applicable permit fees.
Administrative Processing Fees	Clerical	\$ 35.00/hour	Permits requiring additional administrative work or legal review may be charged additional processing fees based upon the respective rates.
	Financial	\$ 55.00/hour	
	Legal Assistant	\$ 45.00/hour	
	Technical	\$ 65.00/hour	
	Attorney's Fees	\$ 225.00/hour	
Record Copy Fees	Photocopy Fees	\$ 0.15/one-sided 11" x 17" or smaller \$ 0.20/two-sided 11" x 17" or smaller	Requests for printed copies of permits, engineering plans or other associated correspondence will be subject to the respective charges.
	Engineering Plans - Black & White	\$ 1.00/copy one-sided larger than 11" x 17"	
	Engineering Plans - Color	\$ 5.00/copy one-sided larger than 11" x 17"	
	CD/DVD	\$ 10.00/disk	
Recording Fees	The LWDD may record a Notice of Permit with the Palm Beach County Clerk of Court for certain types of permits. In addition to the application and usage fees, recording fees based upon current fees charged by the Palm Beach County Clerk of Court will be assessed and collected prior to permit issuance.		

REIMBURSABLE EXPENSES (REPRODUCTION FEES)					
Name of Project:		SW 18TH STREET AND POWERLINE ROAD INTERSECTION IMPROVEMENTS			
PBC Project Number:		2024508			
PLANS	No of Sets	Pages Per Set	Cost Per Page	Total Units	Comments
Permit Plans	0	0		\$ -	
35% Plans	0	0		\$ -	
65% Plans	0	0		\$ -	
96% Plans	0	0		\$ -	
100% Plans	0	0		\$ -	
Final Plans	4	30	\$ 1.40	\$168.00✓	Color Copies (11"x17")
Computation Book and Quantities	2	24	\$ 0.25	\$ 12.00✓	B&W Copies (8.5" x 11")
TOTAL				\$180.00✓	



September 12, 2024

Revised 11/4/2024

Revised 12/16/2024

Masse Consulting Services, LLC
2101 Vista Parkway, Suite 277
West Palm Beach, Florida 33411

Attention: Mr. Basher Khan, P.E.

Reference: SW 18th Street and Powerline Road
Intersection Improvements
Project No. 2024508
Palm Beach County, Florida

Dear Mr. Khan:

We are pleased to submit the following proposal for professional services in connection with signal design for the above referenced intersection in Palm Beach County, Florida. Simmons & White, Inc., hereinafter referred to as the Consultant, proposes to furnish professional services for Masse Consulting Services, LLC, hereinafter referred to as the Client of the scope outlined below for the fees stipulated herein.

Scope of Services

With the addition of a third left turn lane on the west approach and its impact on the northeast corners, our scope would include the following:

- Removal and replacement of the two (2) existing mast arms and all pedestrian signals in these two (2) corners.

The Consultant will perform the following:

1. Prepare Mast Arm Signalization Plans for two (2) relocated mast arms in the standard plan format 11" x 17", and at a scale of 1" = 40' (1" = 20' scale will be provided only as requested). The traffic signals will be designed in accordance with Florida Department of Transportation (FDOT) and Palm Beach County design criteria in conjunction with criteria established in the Manual of Uniform Traffic Control Devices (MUTCD).

Mr. Basher Khan, P.E.
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Scope of Services (Continued)

NOTE: This Item does not include the design and fees associated with utility relocation coordination, lighting design, preparing or submitting variances, or preparing easements and/or right-of-way takes. Utility coordination to be performed by Palm Beach County Roadway and the Roadway Consultant. Consultant will review utility coordination as it relates to signal design and participate in utility coordination meetings. Consultant will coordinate with Florida Power & Light (FPL) to verify overhead conflicts with mast arm and obtain power service.

2. MathCad Analysis and Florida Department of Transportation (FDOT) Structural Excel spreadsheets to be used in new FDOT Design Standard mast arms. Special designs are not included in this scope.

NOTE: Structural design is for two (2) mast arms.

3. In the event Geotechnical Testing reveals soils below the threshold required by the FDOT design criteria for standard mast arm foundations, foundations will be designed using the latest FDOT MathCad program for mast arm design. The special foundation details will be added to the mast arm detail sheets.
4. Perform all work to prepare easements and/or right-of-way for the signals including loops. Work includes but is not limited to creating easement limits, coordinating for approval, coordination and meeting with Palm Beach County Right-of-Way.
5. Prepare technical special provisions for bid purposes using latest County specifications.
6. Prepare as-built plans of the mast arm signalization per Palm Beach County standards and format when construction is completed. Files must be in MicroStation as a deliverable.
7. Provide post design services as required to certify the completed project to the governing agencies, in general accordance with Attachment "A", including meeting attendance, shop drawing review and miscellaneous coordination. This Item is Not to Exceed.
8. Reimbursable expenses for the cost of reproduction only. This Item is Not to Exceed.

Mr. Basher Khan, P.E.
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 Revised 12/16/2024

Scope of Services (Continued)

9. Revisions to the above based on Site Plan and/or Roadway, Signing and Pavement Marking Plan changes, governing agencies requests for additional information, or items beyond the Control of the Consultant will be provided on an as-needed basis at our current hourly billing rates, with a maximum specified limit. Anything above the upset limit will be confirmed with the County prior to work being completed by the Consultant.
10. Additional services requested by the County and agreed to by the Consultant such as, but not limited to, preparation of preliminary cost estimates, assistance with bidding, additional meetings, utility relocation plan preparation, special strain pole or foundation designs or details, or traffic control plans.

Items to be Furnished by the Client
 at No Expense to the Consultant

Assist the Consultant by placing at his disposal all available pertinent information relative to the project.

Furnish at no cost to the Consultant:

1. Subsurface utility exploration.
2. All surveying including, but not limited to, property, boundary (tied to State Plane Coordinates), easement, right of way, topographic, permanent reference monuments, permanent control points, utility surveys, property descriptions and construction staking, As-built surveys of constructed improvements, and existing utility locations on and adjacent to the property including but not limited to FP&L, AT&T, Cable T.V. & Gas. It is highly recommended that the Client's Surveyor contact "No Cuts" prior to performing survey so that all existing franchise utilities can be shown on the survey to avoid field conflicts during construction.
3. Proposed utility routes for FP&L, telephone, Cable T.V., gas, irrigation, lighting, etc. may be required for the proposed development. This coordination effort is assumed to be provided by the Client or their representatives. Consultant will provide coordination as requested or required to insure there are no conflicts with the proposed signal infrastructure. The proposed utility routes need to be provided as soon as possible to allow Consultant to coordinate the infrastructure design.

Mr. Basher Khan, P.E.
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Items to be Furnished by the Client
at No Expense to the Consultant (Continued)

- 4. All required easements for proposed (and existing if no easements exist) infrastructure (drainage, water, sewer as applicable) will be provided by the Client’s Surveyor.
- 5. All proposed roadway plans, ADA curb ramps, pavement marking and signing plans and utility plans necessary to design traffic signals.
- 6. All interconnect communication design.
- 7. All lighting design.
- 8. All required geotechnical design reports.

In addition to the above, other special data, all of which the Consultant will rely upon in performing services.

It is agreed and understood that the accuracy and veracity of said information and data may be relied upon by the Engineer without independent verification of the same.

Time of Performance

The Scope of Services will be completed within a time frame to be mutually agreed upon except for delays beyond the control of the Consultant.

Fees to be Paid

The Consultant shall be paid the following lump sum fees and hourly fee estimates for the Items in the Scope of Services:

Item 1 – Signalization Plans	=	\$ 31,452.00 ✓
Item 2 – Mast Arm Structural Analysis	=	\$ 4,620.00 ✓
Basic Services Subtotal	=	\$36,072.00 *

Mr. Basher Khan, P.E.
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Fees to be Paid (Continued)

Item 3 – Foundation Design for Deficient Soils (Optional)	=	\$ 3,960.00 ✓
Item 4 – Easement/Right-of Way Coordination (Optional)	=	\$ 5,280.00 ✓
Item 5 – Technical Special Provisions (Optional)	=	\$ 3,960.00 ✓
Item 6 – As-Builts (Optional)	=	\$ 2,640.00 ✓
Item 7 – Post Design Services (Optional) (Not to Exceed)	=	\$16,500.00 ✓
Optional Services Subtotal	=	\$32,340.00 ✕
Item 8 – Reproduction (Not to Exceed)	=	\$ 200.00 ✓
Reimbursable Services Subtotal	=	\$ 200.00
Total	=	\$68,612.00 ✕

For Item 7, the Consultant shall be paid the Consultant shall be paid at hourly rates according to our existing Palm Beach County contract. Any applicable Florida State Sales Tax will be added to the above amounts. For the purpose of this proposal, post design services in Item 7 are anticipated to be \$16,500.00. For the purpose of this proposal, we are not anticipating projected costs for Items 9 (Revisions) and 10 (Additional Services).

Fees to be Paid (Continued)

Pursuant to Section 558.0035 of Florida Statutes, an individual employee or agent of Consultant may not be held individually liable for negligence.

Post Design Services

Post design services will endeavor to provide protection for the County against defects and deficiencies in the work of the Contractor. However, the furnishing of services during construction does not guarantee the work of the Contractor, nor assume liability on the part of the Contractor for job safety.

Mr. Basher Khan, P.E.
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Revised 12/16/2024

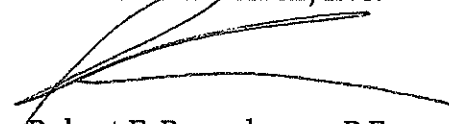
Estimates and Bidding

Consultant's opinions of probable Construction Cost are to be made on the basis of Consultant's experience and qualifications and represent Consultant's best judgment as an experienced and qualified professional generally familiar with the construction industry. However, because the Consultant has no control over the cost of labor, materials, equipment, or services furnished by others, or over contractor's methods of determining prices, or over competitive bidding or market conditions, Consultant cannot and does not guarantee that proposals, bids, or actual Construction Cost will not vary from opinions of probable Construction Cost prepared by Consultant. If Client requires greater assurance as to probable Construction Cost, Client must employ an independent cost estimator.

Client (or their representatives) shall notify Consultant if there is an intent to utilize the plans for bidding purposes prior to all agency permits and approvals being issued. Upon receipt of notice, the Consultant will label the set as "Bid Set" and document revisions from that point forward. Client acknowledges that bidding the project in advance of all approvals being issued may lead to change orders and increases in perceived project costs based on revisions made as a result of permitting reviews and/or Quality Control Reviews performed by the Consultant prior to construction commencement.

Very truly yours,

SIMMONS & WHITE, INC.



Robert F. Rennebaum, P.E.
Vice President

pb: x:/docs/proposals/prop.khansw18thst+powerlinerdev

ATTACHMENT "A"

DESCRIPTION OF POST DESIGN SERVICES

1. Review shop drawings.
2. Coordinate, prepare and submit pre-construction meeting submittals to applicable governing agencies and attend pre-construction meeting.
3. Conduct semi-final and final inspection with Palm Beach County Construction Coordination/Engineering/Traffic.
4. Review job progress with County.
5. At the County's request, investigate matters which may arise during construction and provide recommendations, observations and other services as required.
6. Provide technical specifications
7. Provide as-builts.

SIMMONS & WHITE, INC.
ESTIMATE OF WORK EFFORT FOR ENGINEERING
SW 18th Street and Powerline Road
Intersection Improvements 2024508
TRAFFIC SIGNAL DESIGN

Total Contract Cost Computations	\$	12,024.00	✓
Salary Cost Multiplier		3.00	✓
Subtotal (Salary Related Cost)	\$	36,072.00	✓
SUBTOTAL BASIC SERVICES	\$	36,072.00	✓
REIMBURSABLE SERVICES			
Reproduction			
Expenses 560 8.5" by 11" @ \$0.25	\$	140.00	✓
Expenses 80 11" by 17" @ \$0.75	\$	60.00	✓
SUBTOTAL REIMBURSABLE SERVICES	\$	200.00	✓
OPTIONAL SERVICES			
Foundation Special Design (Simmons & White, Inc.)	\$	3,960.00	✓
Easement/ROW Coordination	\$	5,280.00	✓
Post Design Services			
Technical Special Provisions (Simmons & White, Inc.)	\$	3,960.00	✓
As-Builts (Simmons & White, Inc.)	\$	2,640.00	✓
Shop Drawings, Meetings, Miscellaneous Coordination (Simmons & White, Inc.)	\$	16,500.00	✓
SUBTOTAL (COST OF OPTIONAL SERVICES)	\$	32,340.00	✓
TOTAL=	\$	68,612.00	✓

SIMMONS & WHITE, INC.
ESTIMATE OF WORK EFFORT FOR ENGINEERING
SW 18th Street and Powerline Road Intersection Improvements 2024508
TRAFFIC SIGNAL DESIGN

	Senior Engineer		Designer		ACTIVITY TOTAL
	MAN HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	MAN HOURS
SIGNAL PLANS	172.0 ✓	\$ 55.00 ✓	32.0	\$ 32.00	204.0
STRUCTURAL ANALYSIS	28.0 ✓	\$ 55.00 ✓		\$ 32.00	28.0
TOTALS	200.0 ✓		32.0 ✓		232.0 ✓

SIGNAL PLANS		\$ 9,460.00 ✓	\$ 1,024.00	
STRUCTURAL ANALYSIS		\$ 1,540.00 ✓	\$ -	
TOTALS		\$ 11,000.00 ✓	\$ 1,024.00	\$ 12,024.00 ✓

	BY ACTIVITY	COST FOR ACTIVITY	HOURLY RATE
SIGNAL PLANS	204.0	\$ 10,464.00	51.39
STRUCTURAL ANALYSIS	28.0	\$ 1,540.00	55.00
TOTALS	232.0	\$ 12,024.00	\$51.83 Average per hour

SW 18th Street and Powerline Road Intersection Improvements 2024508

HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 1 - SIGNAL PLANS

TASK NO.	TASK	UNITS	NO. OF UNITS	HOURS/ UNITS	TOTAL HOURS	COMMENTS
1	Traffic Data Collection	LS	0	0	0	
2	Intersection Field Data Collection	PI	1	8	8 ✓	
3	Utilities Coordination	LS	1	40	40 ✓	includes correspondence, meeting attendance for all utilities except FPL
4	FPL Coordination	LS	1	32	32 ✓	Project requires coordination with FPL lighting, transmission, distribution
5	Reference and Master Signalization Design File	PI	1	40	40 ✓	
6	Reference and Master Interconnect Communication Design File	LS	1	4	4 ✓	ITS at intersection only
7	Overhead Street Name Design	EA	4	2	8 ✓	
8	Pole Elevation/Structural Analysis	EA	2	10	20 ✓	2 mast arms - assumes no special designs needed
9	Traffic Signal Structural Report	LS	1	8	8 ✓	
10	Quantities	LS	1	8	8 ✓	
11	Cost Estimate	LS	1	4	4 ✓	
12	Special Details	LS	1	0	0 ✓	
Signalization Analysis Technical Subtotal					172 ✓	

HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 1 - SIGNAL PLANS

TASK NO.	TASK	UNITS	NO. OF UNITS	HOURS/ UNITS	TOTAL HOURS	COMMENTS
13	Field Reviews	LS	1	8	8 ✓	
14	Technical Meetings	LS	1	0	0	
15	Quality Assurance/Quality Control	LS	0	0	0	
16	Independent Peer Review	LS	0	0	0	
17	Easement/ROW Coordination	LS	1	0	0	See optional services
Signalization Analysis Nontechnical Subtotal					8 ✓	
18	Permitting	LS	0	0	0	
Signalization Analysis Total					180 ✓	

HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 2 - SIGNAL PLANS

TASK NO.	TASK	UNITS	NO. OF UNITS	HOURS/ UNITS	NO. OF SHEETS	TOTAL HOURS	COMMENTS
1.	Key Sheet	Sheet	1	4	1	4 ✓	
2.	Summary of Pay Items	Sheet	0	0	0	0	
3.	Tabulation of Quantities	Sheet	1	8	1	8 ✓	
4.	General Notes/Pay Item Notes	Sheet	1	8	1	8 ✓	
5.	Plan Sheet	Sheet	2	8	2	16 ✓	
6.	Interconnect Plans	Sheet	1	8	1	8 ✓	
7.	Traffic Monitoring Site	EA	0	0	0	0	
8.	Guide Sign Work Sheet	EA	0	0	0	0	
9.	Special Details	Sheet	1	0	1	0	Conduit/pull box sheet
10	Pavement Marking Sheet	EA	1	0	1	0	
11	Mast Arm Details Sheet	PI	2	4	2	8 ✓	
12	Strain Pole Schedule	PI	0	0	0	0	
TOTAL THIS SHEET					10	52 ✓	

HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 2 - SIGNAL PLANS

TASK NO.	TASK	UNITS	NO. OF UNITS	HOURS/ UNITS	NO. OF SHEETS	TOTAL HOURS	COMMENTS
13	TCP Signal (Temporary)	EA	0	0	0	0	
14	Temporary Detection Sheet	PI	0	0	0	0	
15	Utility Conflict Sheets	Sheets	0	0	0	0	No conflicts included
16	Interim Standards	LS	0	0	0	0	
Signalization Plans Technical Subtotal						52 ✓	
17	Quality Assurance/Quality Control		1	0	0	0	
18	Supervision		0	0	0	0	
Signalization Plans Total					10	52 ✓	

SIMMONS & WHITE, INC.
ESTIMATE OF WORK EFFORT FOR ENGINEERING
SW 18th Street and Powerline Road Intersection Improvements 2024508
TRAFFIC SIGNAL POST DESIGN SERVICES
OPTIONAL SERVICES
Technical Special Provisions, Meetings, Corrdination, As-builts, and Shop Drawings

Total Contract Cost Computations	\$	7,700.00	✓
Salary Cost Multiplier		3.00	✓
Subtotal (Salary Related Cost)	\$	23,100.00	✓
Subtotal (Cost Elements of Optional Activities)	\$	23,100.00	✓
TOTAL OPTIONAL SERVICES	\$	23,100.00	✓

TOTAL=	\$	23,100.00	✓
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SIMMONS & WHITE, INC.
ESTIMATE OF WORK EFFORT FOR ENGINEERING
SW 18th Street and Powerline Road Intersection Improvements 2024508
TRAFFIC SIGNAL POST-DESIGN SERVICES
Technical Special Provisions, Meetings, Coordination, As-builts, and Shop Drawings

	Senior Engineer		Designer		ACTIVITY TOTAL
	MAN	HOURLY	MAN	HOURLY	MAN
	HOURS	RATE	HOURS	RATE	HOURS
SHOP DRAWINGS	32.0	\$ 55.00 ✓	-		32.0
MEETINGS/COORDINATION	48.0	\$ 55.00 ✓	-		48.0
MISC COORDINATION	20.0	\$ 55.00 ✓	-		20.0
AS-BUILTS	16.0	\$ 55.00 ✓	-		16.0
TECH SPECIAL PROV	24.0	\$ 55.00 ✓	-		24.0
TOTALS	140.0		-		140.0

SHOP DRAWINGS		\$ 1,760.00 ✓	\$ -	
MEETINGS/COORDINATION		\$ 2,640.00 ✓	\$ -	
MISC COORDINATION		\$ 1,100.00 ✓	\$ -	
AS-BUILTS		\$ 880.00 ✓	\$ -	
TECH SPECIAL PROV		\$ 1,320.00 ✓	\$ -	
TOTALS		\$ 7,700.00 ✓	\$ -	\$ 7,700.00

	BY ACTIVITY	COST FOR ACTIVITY	HOURLY RATE
SHOP DRAWINGS	32.0	\$ 1,760.00 ✓	55.00
MEETINGS/COORDINATION	48.0	\$ 2,640.00 ✓	55.00
MISC COORDINATION	20.0	\$ 1,100.00 ✓	55.00
AS-BUILTS	16.0	\$ 880.00 ✓	55.00
TECH SPECIAL PROV	24.0	\$ 1,320.00 ✓	55.00
TOTALS	140.0	\$ 7,700.00 ✓	\$55.00 Average per hour

SW 18th Street and Powerline Road Intersection Improvements 2024508
Technical Special Provisions, Meetings, Corrdination, As-builts, and Shop Drawings

HIGHWAY TASK LIST

ACTIVITY: A. POST-DESIGN SERVICES

SUBACTIVITY: 1 - SIGNALIZATION PLANS

TASK NO.	TASK	UNITS	NO. OF UNITS	HOURS/ UNITS	TOTAL HOURS	COMMENTS
1	Shop Drawings	LS	1	32	32	Assumes no need for second review
2	Meetings/Coordination	LS	1	48	48	Precon and construction meetings
3	Misc	LS	1	20	20	Fielding queries about design, signal pole locations, locates and other communication that regularly occurs on PBC projects
4	As-builts	LS	1	16	16	As-builts to PBC standards/format
TSP	Technical Special Provision	LS	1	24	24	
Signalization Analysis Technical Total					140	



March 12, 2025

Will Carey, PE
Masse Consulting Services, LLC
2101 Vista Parkway, Suite 277
West Palm Beach, Florida 33411

Ritzel-Mason, Inc.

5330 Van Buren Road
Delray Beach, FL 33484

Phone: 786.472.0358

www.ritzel-mason.com

Subject: Fee Proposal for Surveying Services

Project: 2024508 – SW 18th Street and Powerline Road Intersection Improvements

Dear Mr. Carey:

Ritzel-Mason appreciates the opportunity to prepare this fee proposal for providing specific purpose / topographic services on the above referenced project. Ritzel-Mason is registered and licensed in the state of Florida. This letter will serve as our official scope of services and is accompanied by the included fee estimate. Ritzel-Mason has been requested by the Client to provide above ground topographic and right-of-way mapping services.

Project Limits: The limits of our investigation will include the intersection of SW 18th Street and Powerline Road, full right-of-way width, plus 25 feet of:

- 1,900 feet north along Powerline Road
- 1,050 feet east along SW 18th Street
- 600 feet south along Powerline Road
- 1,600 feet west along SW 18th Street

from the center of the intersection in Boca Raton, Florida as shown in the attached exhibit as emailed to Ritzel-Mason on August 19, 2024.

Basic Scope of Services: Ritzel-Mason proposed **Specific Purpose Survey / Topographic Survey** as described below:

Existing horizontal and vertical control will be recovered and/or set as needed. Control will be referenced to the Palm Beach County Control Network which is the NAD83/90 and NGVD88 datums. A closed level run will be performed through set control points.

Above ground data will be obtained to create a surface of the existing conditions. Topography will include visible fixed improvements such as bank lines, natural ground, curbing, asphalt, medians, sidewalks, mast arms, overhead line directions, above ground utilities, etc. Sufficient data will be obtained to create a DTM surface. Grade breaks will be

SW 18th Street and Powerline Road Intersection Improvements

March 12, 2025



included. The maximum interval between points on a straight line will be 75 feet and 25 feet on a curve.

Trees 4-inch DBH and greater will be located. Finish Floor Elevations within the above project limits. Maintained water elevation and edge of water for ponds are ditches are included.

Horizontal control points associated with the baseline will be set at the beginning and end of each baseline and at PCs, PTs, PIs where applicable no more than 1000 feet apart. Alternate monumentation may be used for horizontal control in areas where the baseline is not feasible to occupy due to traffic conditions. Vertical control points will be set no more than 600 feet apart outside of the construction limits with stationing, offsets, elevations with state plane coordinates at each location relative to the baseline.

A Specific Purpose / Topographic Survey will be prepared and will meet and be certified to the applicable portions of the Standards of Practice as set forth in the Florida Board of Professional Surveyors and Mappers in rule 5J-17.050-0.52, Florida Administrative Code, pursuant to Chapter 472.027, Florida Statutes and this Appendix C and D of the Palm Beach County Roadway Design Procedures (January 2019), codes, rules and Statues governing Surveying and Mapping. 11"x17" sheets at 1"=40' scale will be prepared.

Ritzel-Mason proposes **Cross Sections** as described below:

- 50-foot interval cross sections will be shown on the survey, including any ditches and swales on SW 18th Street. Minimum text size for cross section elevations will be reduced in order to fit the data on 1"=40' sheets.
- 100-foot interval cross sections will be shown on the survey, including any ditches and swales on Powerline Road.

Ritzel-Mason proposes **drainage services** as described below:

Ritzel-Mason will locate drainage features and pipes including invert elevations, top of structure elevations, bottom of structure elevations, pipe directions, pipe connectivity, pipe sizes and pipe materials. Upstream and downstream structures will be located.

Ritzel-Mason proposes **right-of-way and baseline services** as described below:

Ritzel-Mason will provide right-of-way and baseline on the project limits. If a historic baseline does not exist, one will be created (established from south to north and west to east). Information will be based on readily available data such as plats, deeds, and property appraiser website. Property lines will be shown. Field monumentation will be searched and located. Title search reports will be included, if provided by Palm Beach County. The baselines will be staked in the field.

Optional Services Scope of Services: Ritzel-Mason will complete a SUE investigation in general accordance with ASCE Standard 38-02: Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data. *Utility designates will be performed only at the location of the proposed test holes prior to excavation for pinpointing purposes.* Ritzel-Mason will search for the existence and approximate location of subsurface utilities within the project limits except those listed under Exclusions below. The specific work includes:

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SW 18th Street and Powerline Road Intersection Improvements

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- A. Records Research through customary means:
 - a. Identify utilities anticipated to exist in the project limits.
 - b. Document responses and compile record information.
- B. Field Investigation using appropriate surface geophysical techniques:
 - a. Documented conductive utilities – designate with the objective of achieving Quality Level B for conductive utilities. Where not possible, lower Quality Levels will be established. Utilities of non-conductive material installed with serviceable tracer wire or tape will be considered conductive. It is important to note, however, that the depicted location of such utilities represents the tracer rather than the actual utility.
 - b. Documented non-conductive utilities – investigate with the objective of achieving Quality Level C. Where not possible, depict at Quality Level D.
 - c. Undocumented utilities – are those utilities that may exist in the project area that have not been previously identified, are not discovered during records research, and for which there is no prior knowledge. Ritzel will use our standard search protocol in an attempt to determine the existence and approximate location of undocumented utilities; however, this work cannot guarantee that all utilities will be found and depicted.
- C. Quality Level exceptions – the following utilities will be investigated with the objective of achieving the specific Quality Level stated:
 - a. Gravity sanitary sewers – Quality Level C.
 - b. Non-conductive utilities with ready access allowing sonde, metal tape or detection rod insertion and tracking – Quality Level B.
 - c. Subaqueous crossings – Quality Level D.
- D. Exclusions – the following utilities and/or components will not be investigated:
 - a. Utility vault or manhole interiors dimensions
 - b. Service lines
 - c. Traffic control loops
 - d. Street light and signage wiring
 - e. Irrigation lines
 - f. Cathodic protection
 - g. Thrust blocks.
 - h. Septic systems.
 - i. Underground storage tanks, piping and wiring.
- E. Vacuum Excavation – Test holes
 - a. Ritzel-Mason proposes to use vacuum excavation equipment to perform up to **30 test holes** at locations as directed by the client. Vacuum excavation methods will enable Ritzel-Mason to visualize the utility in question for a high degree of certainty. Ritzel-Mason will make every effort to vacuum excavate to a depth of eight (8) feet using high pressure air methods. However, vacuum excavation

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will cease when these methods are unable to progress below refusal, such as bedrock or flowable fill. Ritzel-Mason will not employ destructive methods, such as jackhammers or chipping hammers, to break up bedrock or other refusal within a test hole due the high risk of damage to buried utilities and safety risk to employees. Utilities deeper than 8 feet may not be found.

- b. At the completion of each excavation Ritzel-Mason will place an iron rod and cap or a nail and disk at the test hole location and further identify the test hole location with paint marks on the ground surface. We will backfill with native material and compact the soil in 6"-12" lifts as well as provide a permanent restoration of the pavement or ground surface within the limits of the original excavation. We will record maximum depth of the test hole as well as vertical depth of any utility encountered. If a utility is encountered, we will also provide utility type, size, shape, material and orientation to the extent we are able to ascertain this information
- c. Ritzel-Mason will notify Sunshine 811 2 full business days in advance of excavation. Ritzel-Mason will mark the conductive utilities by inductive methods utilizing electromagnetic geophysical prospecting equipment. Known non-conductive utilities will be marked utilizing 2-D Radar (GPR).
- d. Due to mobilization costs a minimum of 4 test holes can be requested or mobilization costs will be charged.
- e. Ritzel-Mason cannot provide vacuum excavation in areas where obstructions, such as unmovable vehicles or storage exist.
- f. Specific pin point (non-linear) requests such as tees or end caps may require 1 to 3 test holes.

Client Responsibilities:

- Provide or facilitate access to project area for field investigations.

Deliverables (Basic Services):

- DGN (SURVRD01.dgn) and PDF (digitally signed) of Specific Purpose/Topographic Survey, 11x17" sheets at 1"=40' scale
- Project Network Control Sheet and reference point sheets
- Digitally signed Specific Purpose/Topographic Survey
- DTM DGN and XML
- An ASCII file of points (x,y,z)

Deliverables (Optional Services):

- Utility designates added to SURVRD01 (optional)
- Test hole Data sheets (optional)
- DGN and PDF of Verified Utility Locates (optional)

SW 18th Street and Powerline Road Intersection Improvements

March 12, 2025



Schedule for Basic Services:

We propose to mobilize for this work 7 business days from receipt of this proposal duly signed and barring weather and any unforeseen condition. The work will be submitted 30 business days from receipt of this proposal duly signed and barring weather and any unforeseen condition.

Fees: See attached spreadsheet.

Basis: The fees listed above are based on Ritzel-Mason's crews being able to work during the hours of 7:00am to 6:00pm and being granted access to the site. Ritzel-Mason is equipped to supply minor MOT services. Ritzel-Mason's field crews and equipment are not equipped or prepared to work in any area that possibly are, or may have been, contaminated with hazardous materials at any time. *Any fee for MOT or permit requested in order to perform the work will be submitted to the client at cost.*

Again, we appreciate the opportunity to provide our surveying services for Masse Consulting. Please call me directly at 786.472.0358, if you have any questions or comments. We look forward to beginning work on this project upon receiving your authorization to proceed.

Sincerely,

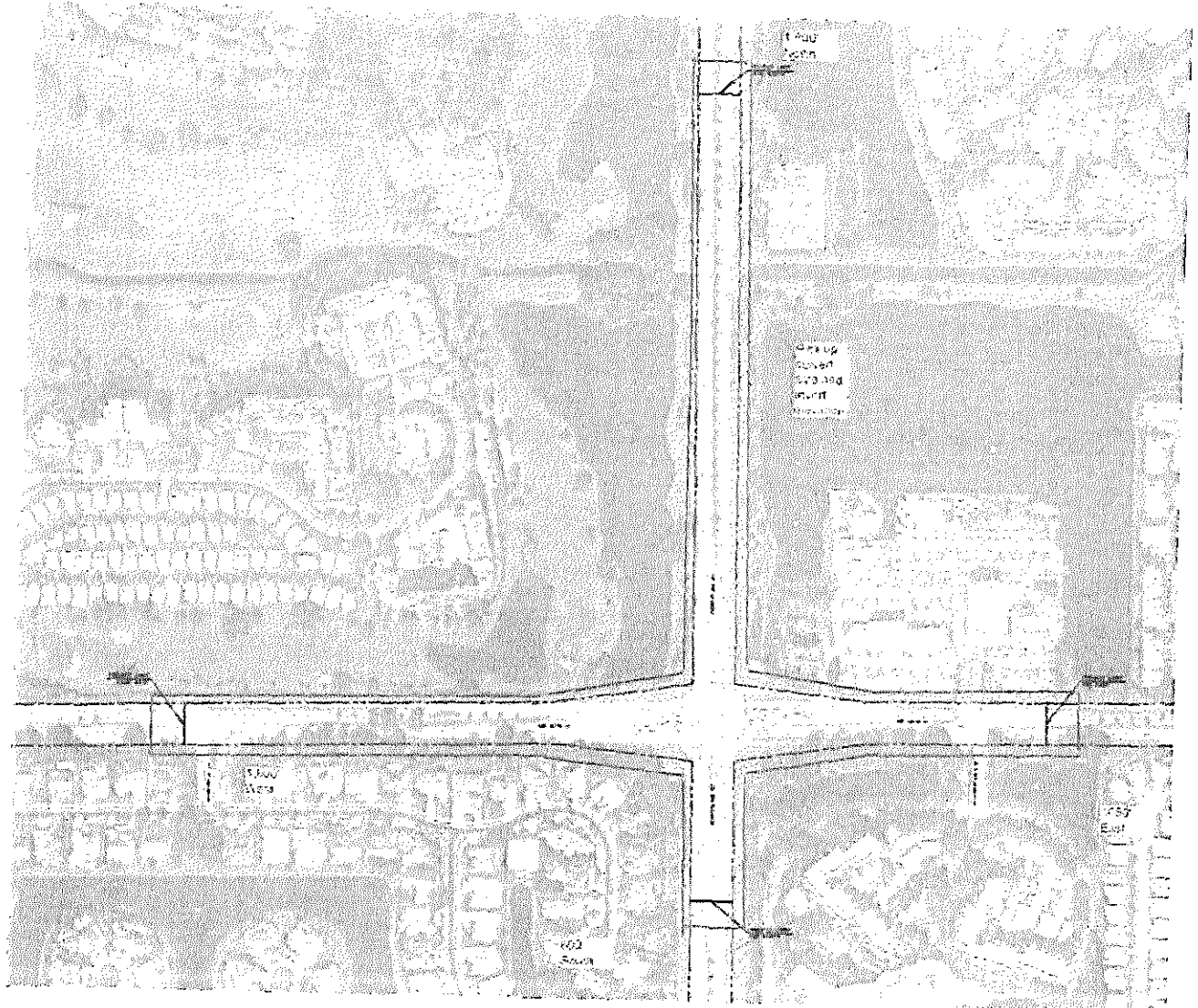
Dennis Ritzel, PSM
Director of Business Operations
786.472.0358
Email: dennis@ritzel-mason.com

SW 18th Street and Powerline Road Intersection Improvements

March 12, 2025



Exhibit



Name of Project:		SW 18th Street & Powerline Road			Consultant Name: Ritzel-Mason, Inc.					
PBC Project Number:		2024508			Consultant Number: N/A					
					Date: 1/23/2025					
Task Description		Total Staff Hours	Project Surveyor	Survey-CADD Technician	3 Man Crew SUE	3 Man Crew Survey	2 Man Crew Survey	Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task
			\$50.00 ✓	\$33.00 ✓	\$73.50	\$66.75 ✓	\$55.00			
BASIC SERVICES (Ritzel-Mason, Inc.)										
14.00	Survey - Field	209.00 ✓	8.00 ✓	0.00 ✓	0.00	201.00 ✓	0.00	209.00	\$ 13,816.75	\$ 66.11
15.00	Survey - Plans	171.00 ✓	20.00 ✓	151.00 ✓	0.00	0.00	0.00	171.00	\$ 5,983.00	\$ 34.99
Total Staff Hours (Basic Services)		380.00 ✓	28.00 ✓	151.00 ✓	0.00	201.00 ✓	0.00	380.00		
Total Staff Cost (Basic Services)			\$1,400.00 ✓	\$4,983.00 ✓	\$0.00	\$13,416.75 ✓	\$0.00		\$19,799.75 ✓	\$52.10
								Basic Services:		
								Basic Services (Ritzel-Mason, Inc.)		\$19,799.75
								Raw Rate Basic Services Total:		\$ 19,799.75
								Loaded Fees:		
								Raw Rate Basic Services Total:		19799.75
								Multiplier Rate:		2.58
								Loaded Total:		\$ 51,083.36
								Grand Total Estimated Fees (Ritzel-Mason, Inc.):		\$ 51,083.36

Project Activity 14: Survey - Field						
Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
14.1	Horizontal Project Control (HPC)					
	2-Lane Roadway	LM	1.00	13.00	13 ✓	Establish horizontal control. Establish secondary control points. Redundant RTK VRS GPS. Datum will be NAD 83/90.
	Multi-lane Roadway	LM	0.00	0.00	0	
14.2	Vertical PC / Bench Line					
	2-Lane Roadway	LM	3.00	9.00	27 ✓	Verify vertical on PNC sheet control. Established vertical data on control, NGVD88.
	Multi-lane Roadway	LM	0.00	0.00	0	
14.3	Reference Points					
	2-Lane Roadway	EA	12.00	0.50	6 ✓	Set baseline reference points
	Multi-lane Roadway	EA	0.00	0.00	0	
14.4	Baseline Layout	LM	1.00	13.00	13 ✓	Establish baseline and rights-of-way on street and lands. The baselines will be staked in the field.
14.5	Section, Subdivision & Property Ties	EA	8.00	2.00	16 ✓	Locate centerlines and property corners
14.6	Topography/DTM (3D)	LM	1.00	72.00	72 ✓	full right-of-way width, plus 25 feet of: 1900' north, 1050' east, 800' south, 1600' west
14.7	Cross Sections	EA	80.00	0.25	20 ✓	Perform 50' Cross sections on SW 18th Street. Perform 100' Cross sections on Powerline Road. 80 cross sections, R/W to R/W + 25 feet.
14.8	Side Street Surveys	LM	0.00	0.00	0	
14.9	SUE	EA	0.00	0.00	0	
14.10	Locates - Pothole	EA	0.00	0.00	0	
14.11	Outfall Survey	LM	0.00	0.00	0	
14.12	Drainage Survey	EA	39.00	0.75	29 ✓	Drainage structures
14.13	Bridge Survey	EA	0.00	0.00	0	
14.14	Canal Survey	LM	0.00	0.00	0	
14.15	Channel Survey and Soundings	LS	0.00	0.00	0	
14.16	Pond Site Survey	EA	0.00	0.00	0	
14.17	Jurisdictional Line Survey	LS	0.00	0.00	0	

Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
14.18	Tree Survey	EA	110.00	0.10	11 ✓	Locate trees R/W to R/W + 25 feet
14.19	Route/Corridor Survey	LM	0.00	0.00	0	
14.20	Boundary Survey	LS	0.00	0.00	0	
14.21	Topographic Survey	LS	0.00	0.00	0	
14.22	Specific Purpose Survey	LS	0.00	0.00	0	
14.23	Hydrographic Survey	LS	0.00	0.00	0	
14.24	Quantity Survey	LS	0.00	0.00	0	
14.25	Record/As-Built Survey	LS	0.00	0.00	0	
14.26	R/W Staking					
	Parcel	EA	0.00	0.00	0	
	R/W Line	LM	0.00	0.00	0	
14.27	Meetings	EA	1.00	2.00	2 ✓	Kick off meeting
14. Survey - Field Total					209 ✓	

Project Activity 15: Survey Plans						
Task No.	Task	Units	No. of Units	Hours/ Unit or Sheet	Total Hours	Comments
15.1	Alignment	EA	1.00	16.00	16 ✓	Establish baseline and rights-of-way on street and lands.
15.2	Section and 1/4 Section Lines	EA	1.00	7.00	7 ✓	Search and process section corners.
15.3	Subdivisions / Property Lines	EA	1.00	8.00	8 ✓	Search and process property corners.
15.4	Existing R/W	EA	1.00	20.00	20 ✓	Establish existing right-of-way on street and lands
15.5	Topography	LM	1.00	45.00	45 ✓	Process topography of intersection
15.6	Parent Tract Properties/Existing Easements	EA	0.00	0.00	0	
15.7	Title Review	LS	1.00	12.00	12 ✓	Process RW road reports
15.8	Jurisdictional/Agency Lines	LM	1.00	0.00	0	
15.9	Survey Key Sheet	Sheet	1.00	10.00	10 ✓	
15.10	Survey Detail & Legend Sheet	Sheet	1.00	13.00	13 ✓	
15.11	Reference Point Sheet	Sheet	0.00	0.00	0	
15.12	Project Control Sheet	Sheet	1.00	10.00	10 ✓	Prepare PNC Sheets
15.13	Specific Purpose & Topographic Survey	Sheet	3.00	10.00	30 ✓	Prepare Specific Purpose & Topographic Survey
15.14	Boundary Survey	EA	0.00	0.00	0	
15.15	Technical Meetings	EA	0.00	4.00	0	
15. Survey Plans Total					171 ✓	

Estimate of Work Effort and Cost											
Name of Project:		SW 18th Street & Powerline Road (OPTIONAL SERVICES)				Consultant Name: Ritzel-Mason, Inc.					
PBC Project Number:		2024508 ✓				Consultant Number: N/A					
Optional Services for Underground Utility Locations - SUE ✓						3/12/2025 ✓					
Task Description		Total Staff Hours	Project Surveyor	Survey-CADD Technician	3 Man Crew SUE	3 Man Crew Survey	2 Man Crew Survey	Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task	
			\$50.00 ✓	\$33.00 ✓	\$73.50 ✓	\$66.75	\$55.00				
OPTIONAL SERVICES (Ritzel-Mason, Inc.)											
14.00	Survey - Field	78.00 ✓	0.00	2.00	76.00 ✓	0.00	0.00	78.00	\$ 5,652.00	\$ 72.46	
15.00	Survey - Plans	30.00 ✓	2.00	28.00 ✓	0.00	0.00	0.00	30.00	\$ 1,024.00	\$ 34.13	
Total Staff Hours (Optional Services)		108.00 ✓	2.00 ✓	30.00 ✓	76.00 ✓	0.00	0.00	108.00			
Total Staff Cost (Optional Services)			\$100.00 ✓	\$998.00 ✓	\$5,586.00 ✓	\$0.00	\$0.00		\$6,676.00 ✓	\$61.81	
	Per Test Hole Cost = \$574.136										

Project Activity 14: Survey - Field (Optional Services for Underground Utility Locations - SUE)						
Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
14.1	Horizontal Project Control (HPC)					
	2-Lane Roadway	LM	0.00	13.00	0	
	Multi-lane Roadway	LM	0.00	0.00	0	
14.2	Vertical PC / Bench Line					
	2-Lane Roadway	LM	0.00	9.00	0	
	Multi-lane Roadway	LM	0.00	0.00	0	
14.3	Reference Points					
	2-Lane Roadway	EA	0.00	0.50	0	
	Multi-lane Roadway	EA	0.00	0.00	0	
14.4	Baseline Layout	LM	0.00	13.00	0	
14.5	Section, Subdivision & Property Ties	EA	0.00	2.00	0	
14.6	Topography/DTM (3D)	LM	0.00	72.00	0	
14.7	Cross Sections	EA	0.00	0.25	0	
14.8	Side Street Surveys	LM	0.00	0.00	0	
14.9	SUE	EA	30.00	0.50	15	Utility designates for pin pointing purposes. Sunshine 811.
14.10	Locates - Pothole	EA	30.00	2.10	63	30 test holes. Includes survey of test holes. MOT not included.
14.11	Outfall Survey	LM	0.00	0.00	0	
14.12	Drainage Survey	EA	0.00	0.75	0	
14.13	Bridge Survey	EA	0.00	0.00	0	
14.14	Canal Survey	LM	0.00	0.00	0	
14.15	Channel Survey and Soundings	LS	0.00	0.00	0	
14.16	Pond Site Survey	EA	0.00	0.00	0	

Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
14.17	Jurisdictional Line Survey	LS	0.00	0.00	0	
14.18	Tree Survey	EA	0.00	0.10	0	
14.19	Route/Corridor Survey	LM	0.00	0.00	0	
14.20	Boundary Survey	LS	0.00	0.00	0	
14.21	Topographic Survey	LS	0.00	0.00	0	
14.22	Specific Purpose Survey	LS	0.00	0.00	0	
14.23	Hydrographic Survey	LS	0.00	0.00	0	
14.24	Quantity Survey	LS	0.00	0.00	0	
14.25	Record/As-Built Survey	LS	0.00	0.00	0	
14.26	R/W Staking					
	Parcel	EA	0.00	0.00	0	
	R/W Line	LM	0.00	0.00	0	
14.27	Meetings	EA	0.00	2.00	0	
14. Survey - Field Total					78 ✓	

Project Activity 15: Survey Plans (Optional Services for Underground Utility Locations - SUE)						
Task No.	Task	Units	No. of Units	Hours/ Unit or Sheet	Total Hours	Comments
15.1	Alignment	EA	0.00	24.00	0	
15.2	Section and 1/4 Section Lines	EA	0.00	7.50	0	
15.3	Subdivisions / Property Lines	EA	0.00	7.50	0	
15.4	Existing R/W	EA	0.00	24.00	0	
15.5	Topography	LM	0.00	45.00	0	
15.6	Parent Tract Properties/Existing Easements	EA	0.00	0.00	0	
15.7	Title Review	LS	0.00	0.00	0	
15.8	Jurisdictional/Agency Lines	LM	0.00	0.00	0	
15.9	Survey Key Sheet	Sheet	0.00	10.00	0	
15.10	Survey Detail & Legend Sheet	Sheet	0.00	13.00	0	
15.11	Reference Point Sheet	Sheet	30.00	0.50	15 ✓	Prepare test hole data sheets
15.12	Project Control Sheet	Sheet	1.00	10.00	10 ✓	Verified Utility Locate sheet for 30 test holes
15.13	Specific Purpose & Topographic Survey	Sheet	30.00	0.17	5 ✓	Update specific purpose survey with test hole locations
15.14	Boundary Survey	EA	0.00	0.00	0	
15.15	Technical Meetings	EA	0.00	4.00	0	
15. Survey Plans Total					30 ✓	



August 27, 2024

Masse Consulting Services, LLC
2101 Vista Parkway, Suite 277
West Palm Beach, FL 33411

Attention: Mr. Basher Khan, P.E.

Re: Scope of Services for Geotechnical Engineering Services
SW 18th Street and Powerline Road Intersection Improvements
SW 18th Street and Powerline Road
Boca Raton, Florida 33433
PBC Project No.: 2024-508
PACIFICA Proposal No.: 610-12019155

Dear Mr. Khan:

In accordance with your email and the survey provided, **Pacifica Engineering Services, LLC (PACIFICA)**, is pleased to submit this scope of services to perform a subsurface exploration program for the above-referenced project. Included herein is our understanding of the proposed development along with a scope of services, cost estimates, and anticipated schedules.

It is understood that plans for this project consist of improvements at the SW 18th Street and Powerline Road intersection in Boca Raton, Florida.

GEOTECHNICAL SCOPE OF SERVICES

Based on the requested scope, PACIFICA proposes to perform the following geotechnical field services:

Basic Services

- twenty-two (22) Standard Penetration Test (SPT) borings to a depth of 10 feet below existing grades;
- two (2) Standard Penetration Test (SPT) borings to a depth of 30 feet below existing grades at the Powerline Road and SW 18th Street intersection; and
- three (3) percolation tests in accordance with SFWMD procedures at depths of 10 feet below grade at the requested locations.

The SPT borings will be performed with truck-mounted machinery using rotary drilling procedures. Samples of the in-place materials will be recovered with a standard split barrel driven with a 140-pound hammer falling 30 inches (the Standard Penetration Test in accordance with ASTM D1586). After completion of drilling, all boreholes will be grouted and the site generally cleaned, as required.

Underground utility clearance will be required prior to the commencement of the geotechnical field exploration. Therefore, PACIFICA will contact "Sunshine One-Call" Service to obtain underground public utility clearance. PACIFICA understands that private utilities will be marked by others prior to each mobilization.

Due to the proximity of the boring locations to the roadway, Maintenance of Traffic (MOT) may be needed to perform the geotechnical scope of work. If required, PACIFICA will submit MOT plans with an estimated schedule in accordance with FDOT standards for PBC approval prior to the start of fieldwork. PACIFICA will use FDOT Maintenance of Traffic (MOT) Plans Design Standards Index Series 600 when developing MOT plans.

GEOTECHNICAL REPORT DELIVERABLES

After the geotechnical field exploration is completed, a geotechnical engineer will review the soil samples and select samples will be tested for physical properties such as gradation, moisture content and organic content, if deemed necessary. The results of the geotechnical exploration will be transmitted in a report which will specifically contain the information listed below:

1. a location plan of the site showing the location of the soil borings and percolation tests;
2. logs of the exploratory borings, which furnish the results of the borings and SPT sampling;
3. results of the percolation tests, including hydraulic conductivity "k" values;
4. the existence of organic soils or any other soil conditions;
5. groundwater readings during the time of the field exploration;
6. soil/rock recommendations for mast arm foundation design; and
7. on-site soil suitability.

GEOTECHNICAL SCHEDULE

Our study can begin one day after we receive authorization to proceed. We will start drilling after public underground utilities have been located and identified, which may take 2-4 business days. The geotechnical field exploration should be completed within 3 business day. Laboratory testing should be completed within one week following final field demobilization. The written report of the subsurface exploration will be available within two weeks following the completion of final laboratory testing. We estimate that our study will be completed within 4 weeks of your notice to proceed.



COST BREAKDOWN				
28-Aug-24				
DESCRIPTION	UNIT	# OF UNITS	UNIT RATE	TOTAL
I. FIELD EXPLORATIONS				
Mobilization of Drill Equipment (50-mile travel)	each	1.0	\$420.00	\$420.00
Senior Engineering Technician (Site Reconnaissance, Boring Layout and Underground Utility Clearance) (Raw Rate: \$31.00*3)	hour	5.0	\$93.00	\$465.00
Standard Penetration Tests - Truck Rig (0' - 50')	feet	280.0	\$16.00	\$4,480.00
Grout Bore Hole (0 to 50 Feet)	feet	280.0	\$6.40	\$1,792.00
Casing (0 to 50 Feet)	feet	60.0	\$10.00	\$600.00
Percolation Test	each	3.0	\$390.00	\$1,170.00
II. SOIL & AGGREGATE TESTING				
Organic Content Test	each	6.0	\$55.00	\$330.00
Natural Sample Moisture Content	each	6.0	\$20.00	\$120.00
Grain size determination: Full grain size (8 sieves)	each	6.0	\$78.00	\$468.00
Grain size determination: Wash through (#200)	each	6.0	\$60.00	\$360.00
III. ENGINEERING SERVICES (MULTIPLIER: 2.63)				
Principal Engineer, P.E. (Raw Rate: \$84.10*3)	hour	1.0	\$252.30	\$252.30
Senior Geotechnical Engineer (Raw Rate: \$69.3*3)	hour	15.0	\$207.90	\$3,118.50
Drafter / CADD (Raw Rate: \$31.35*3)	hour	8.0	\$94.05	\$752.40
IV. REIMBERSABLES				
Ground Penetration Radar (GPR)	day	1.5	\$1,800.00	\$2,700.00
Maintenance of Traffic (MOT) including MOT Plan	day	1.0	\$1,450.00	\$1,450.00
MOT Plan and MOT Permitting	hour	4.0	\$180.00	\$720.00
Advance MOT Technician	hour	8.0	\$99.99	\$799.92
ESTIMATED GEOTECHNICAL BASIC FEE FOR THE INTERSECTION IMPROVEMENT				\$17,028.20

SW 18th Street and Powerline Road Intersection Improvements

Proposed Boring Locations
Sheet 1/4

Legend

EXHIBIT B-Page 48 of 58

- Proposed Mast Arm Boring @ 30 FT
- Proposed SPT Boring @ 10 FT
- Proposed Percolation Test and SPT Boring @ 10 FT



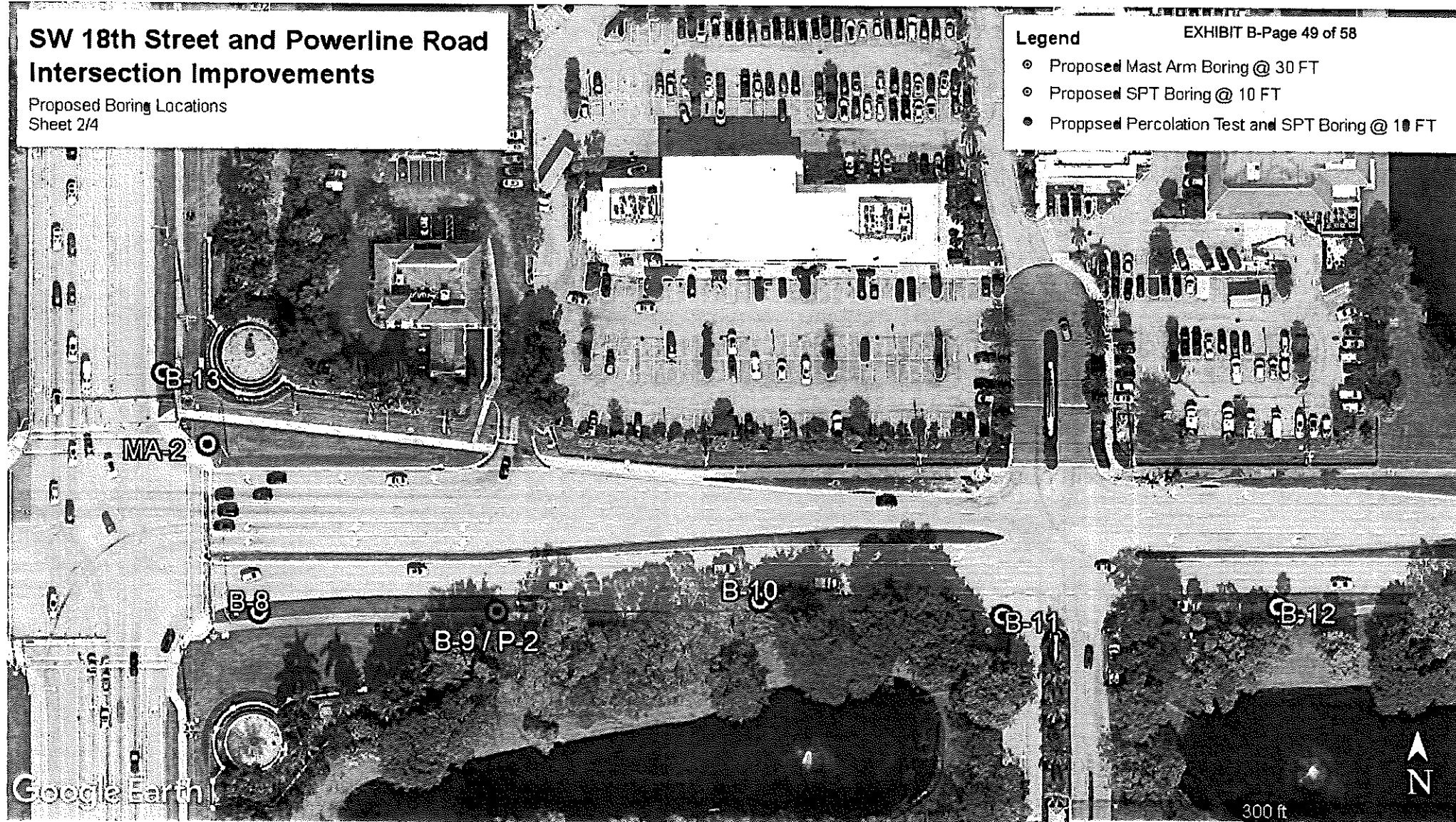
SW 18th Street and Powerline Road Intersection Improvements

Proposed Boring Locations
Sheet 2/4

Legend

EXHIBIT B-Page 49 of 58

- Proposed Mast Arm Boring @ 30 FT
- Proposed SPT Boring @ 10 FT
- Proposed Percolation Test and SPT Boring @ 10 FT



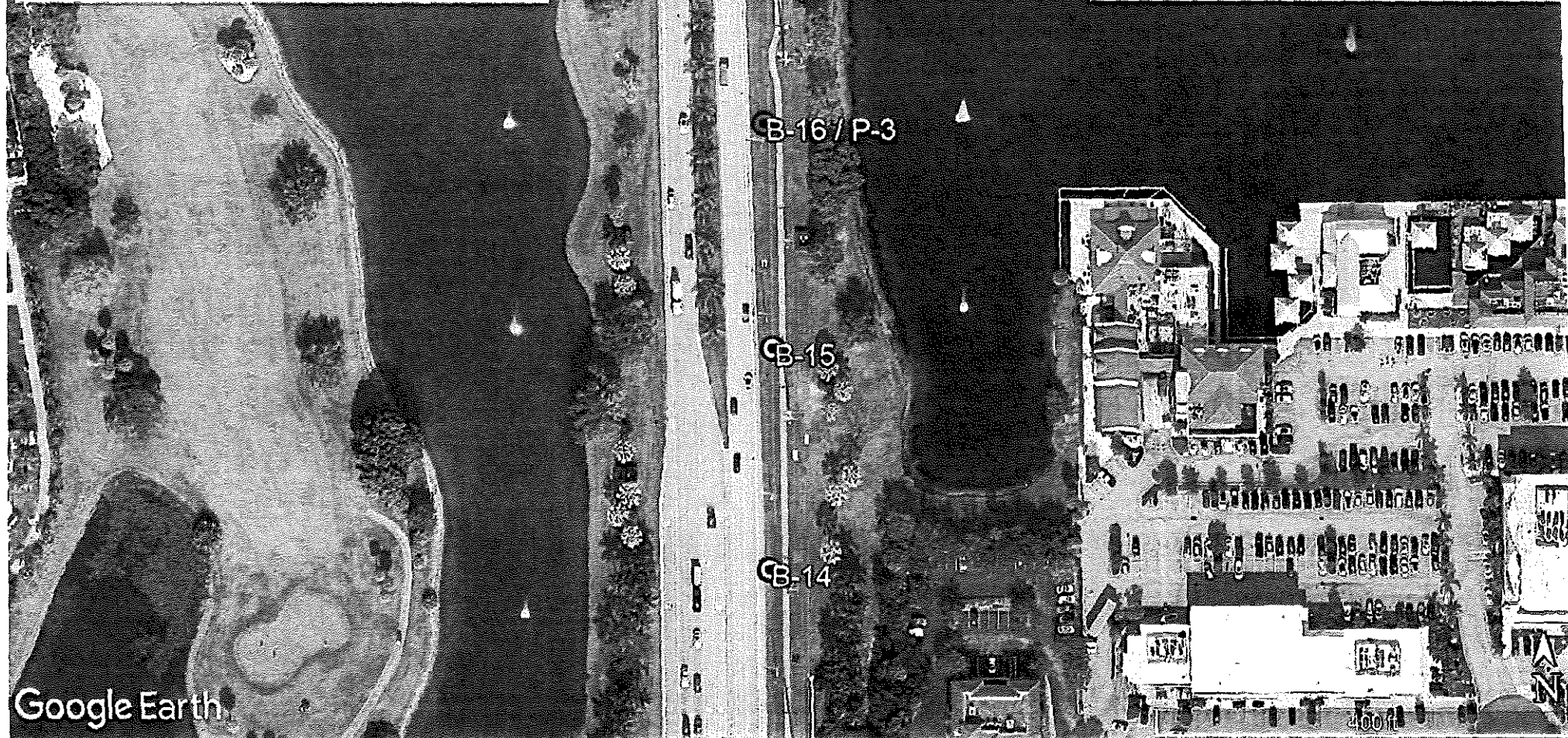
SW 18th Street and Powerline Road Intersection Improvements

Proposed Boring Locations
Sheet 3/4

Legend

EXHIBIT B-Page 50 of 58

- Proposed Mast Arm Boring @ 30 FT
- Proposed SPT Boring @ 10 FT
- Proposed Percolation Test and SPT Boring @ 10 FT



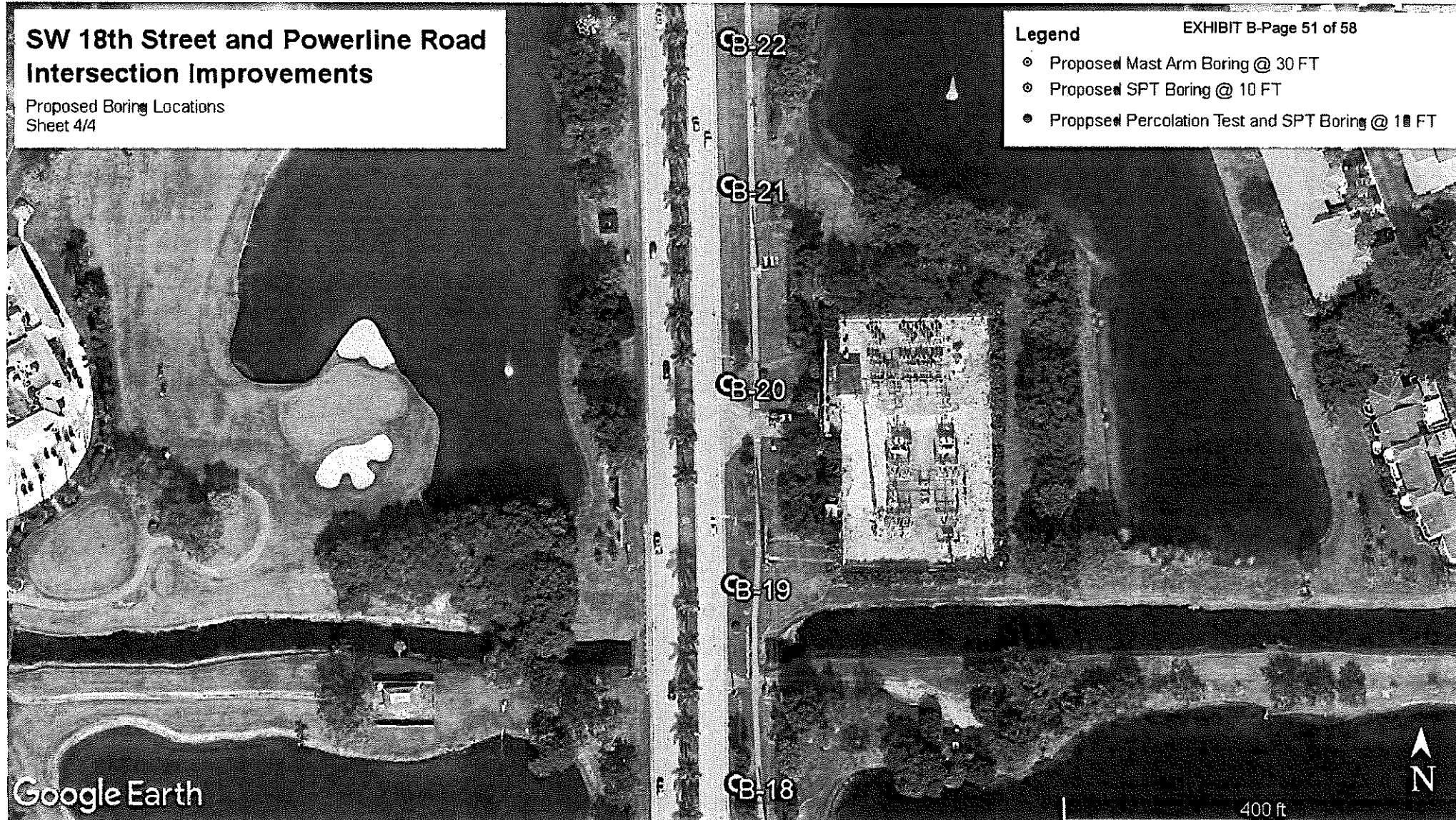
SW 18th Street and Powerline Road Intersection Improvements

Proposed Boring Locations
Sheet 4/4

Legend

EXHIBIT B-Page 51 of 58

- Proposed Mast Arm Boring @ 30 FT
- Proposed SPT Boring @ 10 FT
- Proposed Percolation Test and SPT Boring @ 10 FT



November 6, 2024

Masse Consulting Services, LLC
2101 Vista Parkway, Suite 277
West Palm Beach, FL 33411

Attention: Mr. Will Carey, P.E.

Reference: SW 18th Street and Powerline Road Intersection Improvements
PBC Project No.: 2024508
Lighting Analysis Services
Palm Beach County, Florida

We are pleased to submit the following proposal for professional services in connection with the planned improvements at the intersection of SW 18th Street and Powerline Road. Scalar Consulting Group Inc., hereinafter referred to as the Consultant, proposes to furnish professional services for Masse Consulting Services, LLC, hereinafter referred to as the Client, of the scope outlined below for the fees stipulated herein.

SCOPE OF SERVICES

1. Lighting Analysis

The Consultant shall perform a lighting photometric analysis for the horizontal corridor lighting. All light poles will be modeled with LED luminaires for photometric analysis and supplemental lighting will be included as needed based on coordination with the Client and the Palm Beach County Traffic Engineering Division (PBCTED). The lighting agreement for installation and maintenance of the lighting by FPL will be done by PBCTED. The lighting photometric analysis will be documented in a Lighting Analysis Report (LAR), which will be submitted to PBCTED for their review and approval.

The following tasks are not included:

- a. Service point calculations
- b. Load center and breaker sizing
- c. Light pole foundation design
- d. Survey, Geotech and Sub Surface Utility Exploration (SUE)

2. Lighting Plans

The Consultant shall prepare the Lighting Plans.

The plans shall include:

- a. Key Sheet
- b. General Notes/Pay Item Footnotes
- c. Pole Data and legend
- d. Lighting Plan Sheets (1" = 40')

The following tasks are not included:

- a. Structures Analysis; Special Light Pole Designs

- b. Survey, Geotechnical and Subsurface Utility Exploration (SUE)
 - c. Traffic Control Plans
 - d. Aeronautical Evaluation/Airspace Analysis Report
- 3. Field Review
One field review will be conducted for this project.
- 4. Deliverables
The LAR will be delivered to the Client in digital/electronic format. The final submittal will be signed-sealed by the Consultant.
- 5. Responsibilities of the Client
The Client is to provide the Consultant all the CAD files for this project along with project-related documents and correspondence with PBCTED.
- 6. Labor Rates and Fee

Scalar	Project Manager	Labor Rate	\$80.00
Scalar	Engineer II	Labor Rate	\$60.00

The fee for OPTIONAL SERVICES on this contract is \$13,260.00.

Sincerely,

SCALAR CONSULTING GROUP INC.



Scott Edgar, P.E.
Associate Vice-President

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project:SW 18th Street and Powerline Road Intersection Improvements Project

County:Palm Beach County

FPN:PBC Project No. 2024508

FAP No.:N/A

Consultant:Scalar Consulting Group Inc.

Consultant No.:

Date:

Estimator:Maria Missena, PE

Task Description	Total Staff Hours From "SH Summary Firm"	Project Manager	Engineer II	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$80.00 ✓	\$60.00 ✓			
1. Lighting Analysis	34 ✓	7 ✓	27 ✓	34	\$2,180.00	\$64.12
2. Lighting Plans	36 ✓	4 ✓	32 ✓	36	\$2,240.00	\$62.22
Total Staff Hours	70 ✓	11 ✓	59 ✓	70		
Total Staff Cost		\$880.00 ✓	\$3,540.00 ✓		\$4,420.00 ✓	\$63.14

Check = \$4,420.00

SALARY RELATED COSTS:

DIRECT SALARY MULTIPLIER:

GRAND TOTAL ESTIMATED FEE (OPTIONAL SERVICES)

\$4,420.00 ✓

3 ✓

\$13,260.00 ✓

Project Activity 1: Lighting Analysis

Estimator: Scalar Consulting Group Inc.

SW 18th Street and Powerline Road Intersection Improvements Project
PBC Project No. 2024508

Representing	Print Name	Signature / Date
Scalar Consulting Group Inc.	Maria Missena, PE	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
1.1	Lighting Justification Report	LS	0	0	0	
1.2	Lighting Design Analysis Report	LS	1	12	12 ✓	Optional Services: Horizontal corridor lighting photometrics (AGI), executive summary, recommendations, criteria, cut sheets, LED photometric sheets using Florida Greenbook corridor lighting criteria for light poles impacted by roadway design along SW 18th St: 12hrs (Includes time to review and sign and seal)
1.3	Aeronautical Evaluation	LS	0	0	0	
1.4	Voltage Drop Calculations	LS	0	0	0	
1.5	FDEP Coordination and Report	LS	0	0	0	
1.6	Reference and Master Design Files	LS	1	16	16 ✓	
						(6) hours for set up + 40 hrs per mile for corridor x (0.24 miles)
1.7	Temporary Lighting	LS	0	0	0	
1.8	Design Documentation	LS	0	0	0	
1.9	Quantities	LS	0	0	0	To be completed by FPL
1.10	Cost Estimate	LS	1	2	2 ✓	Providing FPL total lighting quantities to meet corridor lighting criteria/Coordination with FPL to submit utility work estimate total for installation
1.11	Technical Special Provisions	LS	0	0	0	
1.12	Other Lighting Analysis	LS	0	0	0	
Lighting Analysis Technical Subtotal					30 ✓	

Project Activity 1: Lighting Analysis

1.13	Field Reviews	LS	2	2	4	✓	Includes travel time to obtain data necessary for design. (2 people per trip x 4 hours per trip x 1 trip)
1.14	Technical Meetings	LS	1	0	0	✓	Not needed per PBC
Lighting Analysis Nontechnical Subtotal					4	✓	
1. Lighting Analysis Total					34	✓	

Project Activity 1: Lighting Analysis

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Lighting Design	EA	0	0	0		0
Traffic Design	EA	0	0	0		0
Power Company	EA	0	0	0		0
Maintaining Agency (coordination)	EA	0	0	0		0
Airport authority	EA	0	0	0		0
FDEP Lighting (coast areas)	EA	0	0	0		0
Other Coord (Maint agency, Mfr, etc.)	EA	0	0	0		0
Subtotal Technical Meetings				0	Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3	--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3	--
Total Meetings				0	Total Project Manager Meetings (carries to Tab 3)	0

Carries to 23.14

Carries to Tab 3

2. Lighting Plans

Estimator: Scalar Consulting Group

SW 18th Street and Powerline Road Intersection Improvements Project
PBC Project No. 2024508

Representing	Print Name	Signature / Date
Palm Beach County Traffic Dept.	District 4	
Consultant Name	Maria Missena, PE	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
2.1	Key Sheet		Sheet	1	4	1	4 ✓	
2.2	Summary of Pay Items Including Designer Interface (TRNS+Port) Input		Sheet	0	0	0	0	
2.3	Tabulation of Quantities		Sheet	0	0	0	0	
2.4	General Notes/Pay Item Notes		Sheet	1	6	1	6 ✓	
2.5	Pole Data, Legend and Criteria		Sheet	1	8	1	8 ✓	
2.6	Service Point Details		Sheet	0	0	0	0	
2.7	Project Layout		Sheet	0	0	0	0	
2.8	Plan Sheet		Sheet	3	6	3	18 ✓	SW 18th St at Powerline Rd intersection + 2 plan sheets for corridor lighting impacted by roadway design
2.9	Special Details		Sheet	0	0	0	0	
2.10	Temporary Lighting Data and Details		Sheet	0	0	0	0	
2.11	Traffic Control Plan Sheets		Sheet	0	0	0	0	
2.12	Interim Standards		LS	0	0		0 ✓	
02. Lighting Plans Total						6	36	

OSBD SCHEDULE 1*

SOLICITATION/PROJECT/BID NAME: SW 18th Street and Powerline Road Intersection Improvements

SOLICITATION/PROJECT/BID NO.: 2024508

SOLICITATION OPENING/SUBMITTAL DATE: July 26, 2022

COUNTY DEPARTMENT: Engineering & Public Works Department

Section A PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: Masse Consulting Services, LLC

ADDRESS: 1132 Cala Lily Cv., West Palm Beach, FL 33415

CONTACT PERSON: Md Abul Basher Khan

PHONE NO.: 561-568-3197

E-MAIL: bkhan@masseconsultingfirm.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$201,741.60

Non-SBE ☐

SBE ☒

SBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

Section B PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)		DOLLAR AMOUNT OR PERCENTAGE OF WORK
	Non-SBE	SBE	
1. Simmons & White, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$68,612.00
2. Ritzel-Mason, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$68,307.44
3. Pacifica Engineering Services, LLC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$17,028.20
4. Scalar Consulting Group, LLC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	\$13,260.00
5.	<input type="checkbox"/>	<input type="checkbox"/>	

(Please use additional sheets if necessary)

Total \$167,207.64

Total Bid/Offer Price \$368,949.24

Total Certified SBE Participation \$355,689.24

I hereby certify that the above information is accurate to the best of my knowledge:

Md Abul Basher Khan

Basher Khan

Manager

Name & Authorized Signature

Title

- Note:
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
 - Only those firms certified by Palm Beach County at the time of solicitation due date are eligible to meet the established OSBD Affirmative Procurement Initiative (API). Please
 - Modification of this form is not permitted and will be rejected upon submittal.
 - If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation.

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2024508
SOLICITATION/PROJECT NAME: SW 18th Street and Powerline Road Intersection Improvements

Prime Contractor: Masse Consulting Services, LLC Subcontractor: N/A
(Check box(s) that apply)

☒ SBE ☐ Non-SBE ☐ Supplier Date of Palm Beach County Certification (if applicable): 3/11/24 to 3/10/27

SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

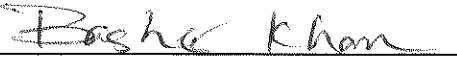
Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	General Highway Design w/Curb & Gutter, Access & Drainage				\$201,741.60

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$201,741.60

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A
Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage: N/A

Masse Consulting Services, LLC
Print Name of Prime
By: 
Authorized Signature

Md Abul Basher Khan
Print Name
Manager
Title
Date: 12/10/2025

N/A
Print Name of Subcontractor/subconsultant
By: _____
Authorized Signature

Print Name

Title
Date: _____

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2024508
SOLICITATION/PROJECT NAME: SW 18th Street and Powerline Road Intersection Improvements

Prime Contractor: Masse Consulting Services, LLC Subcontractor: Simmons & White, Inc.
(Check box(s) that apply)

☒ SBE ☐ Non-SBE ☐ Supplier Date of Palm Beach County Certification (if applicable): 8/20/24 to 8/19/27

SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Traffic Operation Signal Design				\$68,612.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$68,612.00

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A
Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage: N/A

Masse Consulting Services, LLC
Print Name of Prime
By: [Signature]
Authorized Signature

Md Abul Basher Khan
Print Name
Manager
Title
Date: 12/10/2025

Simmons & White, Inc.
Print Name of Subcontractor/subconsultant
By: [Signature]
Authorized Signature

Bryan G. Kelley, P.E.
Print Name
Vice President
Title
Date: 12/09/2025

*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

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SOLICITATION/PROJECT NUMBER: 2024508

SOLICITATION/PROJECT NAME: SW 18th Street and Powerline Road Intersection Improvements

Prime Contractor: Masse Consulting Services, LLC Subcontractor: Ritzel-Mason, Inc.

(Check box(s) that apply)

☒ SBE ☐ Non-SBE ☐ Supplier Date of Palm Beach County Certification (if applicable): 4/10/25 to 4/9/28

SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Surveying				\$68,307.44

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$68,307.44

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A
Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage: N/A

Masse Consulting Services, LLC
Print Name of Prime

By: Basher Khan
Authorized Signature

Md Abul Basher Khan
Print Name
Manager
Title

Date: 12/10/2025

Ritzel-Mason, Inc.
Print Name of Subcontractor/subconsultant

By: Dennis Ritzel
Authorized Signature

DENNIS RITZEL
Print Name
VICE PRESIDENT
Title

Date: 12/9/2025

*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

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SOLICITATION/PROJECT NUMBER: 2024508
SOLICITATION/PROJECT NAME: SW 18th Street and Powerline Road Intersection Improvements

Prime Contractor: Masse Consulting Services, LLC Subcontractor: Pacifica Engineering Services, LLC
(Check box(s) that apply)

☒ SBE ☐ Non-SBE ☐ Supplier Date of Palm Beach County Certification (if applicable): 10/25/24 to 10/24/27

SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Geotechnical Exploration				\$17,028.20

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$17,028.20

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A
Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage: N/A

Masse Consulting Services, LLC
Print Name of Prime
By: Basher Khan
Authorized Signature

Md Abul Basher Khan
Print Name
Manager
Title
Date: 12/10/2025

Pacifica Engineering Services, LLC
Print Name of Subcontractor/subconsultant
By: Wesley Foster
Authorized Signature

Wesley Foster
Print Name
President
Title
Date: 12/09/2025

*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2024508
SOLICITATION/PROJECT NAME: SW 18th Street and Powerline Road Intersection Improvements

Prime Contractor: Masse Consulting Services, LLC Subcontractor: Scalar Consulting Group, LLC
(Check box(s) that apply)

☐ SBE ☒ Non-SBE ☐ Supplier Date of Palm Beach County Certification (if applicable):

SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Lighting Analysis and Plans				\$13,260.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$13,260.00

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A
Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage: N/A

Masse Consulting Services, LLC

Print Name of Prime

By: Basher Khan
Authorized Signature

Md Abul Basher Khan

Print Name

Manager

Title

Date: 12/10/2025

Scalar Consulting Group, LLC

Print Name of Subcontractor/subconsultant

By: Aniruddha Gotmare
Authorized Signature

Aniruddha Gotmare, P.E.,

Print Name

Managing Member / President

Title

Date: 12/09/2025

Exhibit D

Intersection Improvements Annual Design Services							
Project # 2024518 - R2023-0477 - Masse Consulting Services, LLC							
Contract API(s):				20% SBE SBE Pref			
Contract Commitment:				85%			
GSC Date:				1/5/2022			
Executed By	Project #	CSA #	Supplement #	Date Approved	Total Amount	SBE	
						Total \$	Total %
CRC	2022507	1		1/3/24	\$ 76,221.00	\$ 76,221.00	100.00%
BCC	2023509	2		1/7/25	\$ 235,717.96	\$ 235,717.96	100.00%
BCC	2024508	3		pending	\$ 368,949.24	\$ 355,689.24	96.40%
BCC	2024518	4		pending	\$ 425,011.08	\$ 425,011.08	100.00%
Project Totals					\$ 1,105,899.28	\$ 1,092,639.28	98.80%

[illegible]