

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

**Name of Project:** Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)  
**County:** Pinellas  
**PID No:** 003898A

**PINELLAS COUNTY**

**Consultant Name:** Burgess & Niple

**Date:** 8/5/2022  
**Estimator:** Bryan Anderson

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Eng 1	PM 2	Sen Eng 1	Engineer 1	Engineer Intern	Chief Designer	Designer	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH	Salary	Average
		By Activity	Cost By Activity	Rate Per Task												
3. Project General and Project Common Tasks	148	3	58	15	30	0	30	12	0	0	0	0	0	148	\$28,179.00	\$190.40
3. Project General and Project Common Tasks - POST DESIGN	114	2	46	11	23	0	23	9	0	0	0	0	0	114	\$21,746.00	\$190.75
4. Roadway Analysis	404	8	40	0	81	162	113	0	0	0	0	0	0	404	\$58,670.00	\$145.22
5. Roadway Plans	247	5	25	0	25	148	44	0	0	0	0	0	0	247	\$33,120.00	\$134.09
6a. Drainage Analysis	210	4	42	0	0	84	80	0	0	0	0	0	0	210	\$32,928.00	\$156.80
6b. Drainage Plans	256	5	52	0	0	76	123	0	0	0	0	0	0	256	\$42,096.00	\$164.44
7. Utilities	51	1	6	0	0	39	5	0	0	0	0	0	0	51	\$6,429.00	\$126.06
8. Environmental Permits B&N	16	0	5	6	0	3	2	0	0	0	0	0	0	16	\$3,037.00	\$189.81
19. Signing & Pavement Marking Analysis	83	2	7	25	0	17	0	32	0	0	0	0	0	83	\$13,251.00	\$159.65
20. Signing & Pavement Marking Plans	56	1	4	12	0	6	0	33	0	0	0	0	0	56	\$8,627.00	\$154.05
21. Signalization Analysis	82	2	7	25	0	16	0	32	0	0	0	0	0	82	\$13,150.00	\$160.37
22. Signalization Plans	44	1	4	9	0	4	0	26	0	0	0	0	0	44	\$6,877.00	\$156.30
23. Lighting Analysis	48	1	6	14	0	10	0	17	0	0	0	0	0	48	\$7,791.00	\$162.31
24. Lighting Plans	12	0	1	3	0	1	0	7	0	0	0	0	0	12	\$1,877.00	\$156.42
<b>Total Staff Hours</b>	1,771	35	303	120	159	566	420	168	0	0	0	0	0	1,771		
<b>Total Staff Cost</b>		\$8,995.00	\$69,084.00	\$24,960.00	\$22,737.00	\$57,166.00	\$72,660.00	\$22,176.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$277,778.00</b>	<b>\$156.85</b>

Check = \$277,778.00

<b>B&amp;N Design &amp; Permitting (LS):</b>	<b>\$256,157.00</b>
<b>Sub-Consultants</b>	
WSP (LS):	\$29,569.36
TIERRA (LS):	\$31,891.93
ESA (LS):	\$5,619.00
VALERIN (TM):	\$9,346.00
<b>Sub Consultant Summary:</b>	<b>\$76,426.29</b>
<b>B&amp;N Post Design Services (T&amp;M)</b>	<b>\$21,746.00</b>
<b>Optional Services (WSP):</b>	<b>\$13,323.45</b>
<b>Contingency Services:</b>	<b>\$20,000.00</b>
<b>County Grand Total Fee:</b>	<b>\$387,652.74</b>

<b>SUB TOTAL B&amp;N (LS)</b>																					
<b>SWFWMD General Permit Fee</b>																					
<b>TOTAL B&amp;N (LS)</b>																				\$256,157.00	
<b>SUBTOTAL ESTIMATED FEE:</b>																					\$256,157.00
Subconsultant:	WSP (Structures)																				\$29,569.36
Subconsultant:	Tierra (Geotechnical)																				\$31,891.93
Subconsultant:	ESA (ENV Permitting)																				\$5,619.00
Subconsultant:	Valerin (Public Involvement)																				\$9,346.00
<b>TOTAL SUB CONSULTANT FEE:</b>																					<b>\$76,426.29</b>
<b>Post Design Services (B&amp;N) (T&amp;M)</b>																					\$21,746.00
<b>Optional Services (WSP) (LS)</b>																					\$13,323.45
<b>Contingency Services:</b>																					\$20,000.00
<b>GRAND TOTAL ESTIMATED FEE:</b>																					<b>\$387,652.74</b>

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

**Name of Project:** Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)  
**County:** Pinellas  
**PID No:** 003898A

**Consultant Name:** Valerin

BASIC SERVICES

**Date:** 8/5/2022  
**Estimator:** Valerie Ciudad-Real

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Community Outreach Specialist	Graphic Designer	Multimedia Specialist	-	-	-	-	-	-	-	-	-	SH	Salary	Average
														By Activity	Cost By Activity	Rate Per Task
3. Project General and Project Common Tasks (VAL)	78	50	20	8	0	0	0	0	0	0	0	0	0	78	\$9,346.00	\$119.82
<b>Total Staff Hours</b>	78	50	20	8	0	0	0	0	0	0	0	0	0	78		
<b>Total Staff Cost</b>		\$6,175.00	\$2,265.00	\$906.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$9,346.00</b>	<b>\$119.82</b>

Check = \$9,346.00

Survey Field Days by Subconsultant 4 - Person Crew:
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<b>SALARY RELATED COSTS:</b>				<b>\$9,346.00</b>
OVERHEAD:		0%		\$0.00
OPERATING MARGIN:		0%		\$0.00
FCCM (Facilities Capital Cost Money):		0.00%		\$0.00
EXPENSES:		0.00%		\$0.00
Survey (Field - if by Prime)		4-person crew days @	\$ - / day	\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$9,346.00</b>
Subconsultant: WSP (Structures)				\$0.00
Subconsultant: Tierra (Geotechnical)				\$0.00
Subconsultant: ESA (ENV Permitting)				\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$0.00</b>
<b>GRAND TOTAL ESTIMATED FEE:</b>				<b>\$9,346.00</b>

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

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

**Name of Project:** Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)  
**County:** Pinellas  
**PID No:** 003898A

**Consultant Name:** ESA

BASIC SERVICES

**Date:** 8/5/2022  
**Estimator:** Ryan Horstman

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager 3	Senior Env. Specialist	Senior Scientist 2	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	Staff Classification 13	SH	Salary	Average
														By Activity	Cost By Activity	Rate Per Task
6. Environmental Permits, and Env. Clearances	33	3	20	10	0	0	0	0	0	0	0	0	0	33	\$5,309.00	\$160.88
<b>Total Staff Hours</b>	33	3	20	10	0	0	0	0	0	0	0	0	0	33		
<b>Total Staff Cost</b>		\$789.00	\$3,160.00	\$1,360.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$5,309.00</b>	<b>\$160.88</b>

Check = \$5,309.00

Survey Field Days by Subconsultant 4 - Person Crew:
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SALARY RELATED COSTS:				\$5,309.00
OVERHEAD:		0%		\$0.00
OPERATING MARGIN:		0%		\$0.00
FCCM (Facilities Capital Cost Money):		0.00%		\$0.00
EXPENSES:		0.00%		\$310.00
Survey (Field - if by Prime)		4-person crew days @	\$ - / day	\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>				
Subconsultant: WSP (Structures)				\$0.00
Subconsultant: Tierra (Geotechnical)				\$0.00
Subconsultant: ESA (ENV Permitting)				<b>\$5,619.00</b>
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$0.00</b>
Post Design Services (B&N)				\$0.00
Optional Services (WSP)				\$0.00
Optional Services (Tierra)				\$0.00
<b>GRAND TOTAL ESTIMATED FEE:</b>				<b>\$5,619.00</b>

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

**Project Activity 3: General Tasks**

Estimator: Bryan Anderson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)  
003898A

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple	Bryan Anderson	

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

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
<b>3.1</b>	<b>Public Involvement</b>					
3.1.1	Public Involvement Plan	LS	1	0	0	
3.1.2	Notifications	LS	1	0	0	By County
3.1.3	Preparing Mailing Lists	LS	1	0	0	By County
3.1.4	Median Modification Letters	LS	1	0	0	N/A
3.1.5	Driveway Modification Letters	LS	1	0	0	By County
3.1.6	Newsletters	LS	1	0	0	
3.1.7	Renderings and Fly Throughs	LS	1	0	0	
3.1.8	PowerPoint Presentation	LS	1	14	14	Powerpoint presentation support for public meeting
3.1.9	Public Meeting Preparations	LS	1	8	8	Roll plot
3.1.10	Public Meeting Attendance/Followup	LS	1	8	8	3 people x (1 hr prep + 2 hrs meeting 2 hrs for follow up to meeting)
3.1.11	Other Agency Meetings	LS	1	8	8	2 people x (1 hr prep + 1 hr meeting + 1 hr for meeting minutes)
3.1.12	Web Site	LS	1	0	0	
<b>3.1 Public Involvement Subtotal</b>					<b>38</b>	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	1	20	20	Draft (60%) specs (12 hrs) + 90% Specs (4 hrs) + Final Specs (4 hrs)
3.4	Contract Maintenance and Project Documentation	LS	1	28	28	4 hrs set up + (2 hrs/month X 12 months); includes invoicing, progress reports and schedule updates
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	54	54	See listing below
3.7	Plans Update	LS	1	0	0	
3.8	Post Design Services	LS	1	0	0	Separate Sheet since this is a Time and Materials, not lump sum
3.9	Digital Delivery	LS	1	8	8	60% / 90% / 100%
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.11.1	Aeronautical Evaluation	LS	1	0	0	
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	
3.13	Other Project General Tasks	LS	1	0	0	
<b>3. Project Common and Project General Tasks Total</b>					<b>148</b>	

**Project Activity 3: General Tasks**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
<b>3.6 - List of Project Manager Meetings</b>		<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>
	Roadway Analysis	EA	24	2	48	4 progress meetings x 2 hr = 8 hr
	Drainage	EA	0	2	0	
	Utilities	EA	1	2	2	PM attendance at Utility Coord meeting
	Environmental	EA	0	0	0	
	Structures	EA	0	0	0	
	Signing & Pavement Marking	EA	0	0	0	
	Signalization	EA	0	0	0	
	Lighting	EA	0	0	0	
	Landscape Architecture	EA	0	0	0	
	Survey	EA	0	0	0	
	Photogrammetry	EA	0	0	0	
	ROW & Mapping	EA	0	0	0	
	Terrestrial Mobile LIDAR	EA	0	0	0	
	Architecture	EA	0	0	0	
	Noise Barriers	EA	0	0	0	
	ITS Analysis	EA	0	0	0	
	Geotechnical	EA	0	0	0	
	Progress Meetings	EA	0	0	0	
	Phase Reviews	EA	1	4	4	1 hr x 4 meetings = 4 hr
	Field Reviews	EA	0	0	0	
<b>Total Project Manager Meetings</b>			26		54	Total PM Meeting Hours carries to Task 3.6 above

**Notes:**

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

**Project Activity 3: General Tasks**

Estimator: Valerie Ciudad-Real

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

003898A

Representing	Print Name	Signature / Date
Pinellas County		
Valerin	Valerie Ciudad-Real	

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

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Public Involvement Plan	LS	1	16	16	Valerin will develop a Public Involvement Plan (PIP) including project background, goals, and indentification of stakeholder and outreach activities. The PIP will updated as needed.
3.1.2	Notifications	LS	0	0	0	Done by County
3.1.3	Preparing Mailing Lists	LS	0	0	0	Done by County
3.1.4	Median Modification Letters	LS	0	0	0	N/A
3.1.5	Driveway Modification Letters	LS	0	0	0	Done by County
3.1.6	Handouts Preparation	LS	1	5	5	Valerin will prepare a project handout for County.
3.1.7	Renderings and Fly Throughs	LS	0	0	0	N/A
3.1.8	PowerPoint Presentation	LS	1	32	32	Valerin will prepare a PowerPoint presentation for use in one (1) virtual public meeting. Includes development of slides, script and voiceover, as well as coordination and review of slides by the County.
3.1.9	Public Meeting Preparations	LS	1	12	12	Valerin to coordinate/prepare for one (1) virtual public meeting. Tasks include preparation of press release, agenda, introduction video, and one (1) practice related to virtual component of the meeting with the County and Consultant staff. The County will be responsible for issuing press release and meeting announcements as well as setting up registration page and link for the virtual meeting.
3.1.10	Public Meeting Attendance/Followup	LS	1	13	13	Valerin's tasks include attendance at the virtual meeting and preparation of a Comments and Coordination Report documenting public involvement activities conducted and public comments received during the public meeting. Task also includes preparation of additional public correspondence. (2 participants + 1 hr prep + 2 hr meeting + 2 hrs for follow up to meeting = 10 hrs) + 10 hrs Comments and Coordination Report and additional correspondence.
3.1.11	Other Agency Meetings	LS	0	0	0	N/A (Burgess & Niple will only be attending)
3.1.12	Web Site	LS	0	0	0	N/A
<b>3.1 Public Involvement Subtotal</b>					<b>78</b>	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	1	0	0	
3.4	Contract Maintenance and Project Documentation	LS	1	0	0	
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	0	0	
3.7	Plans Update	LS	1	0	0	
3.8	Post Design Services	LS	1	0	0	
3.9	Digital Delivery	LS	1	0	0	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.11.1	Aeronautical Evaluation	LS	1	0	0	

**Project Activity 3: General Tasks**

<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	
3.13	Other Project General Tasks	LS	1	0	0	
<b>3. Project Common and Project General Tasks Total</b>					<b>78</b>	

**Project Activity 3: General Tasks**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
<b>3.6 - List of Project Manager Meetings</b>		<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>
	Roadway Analysis	EA	0	2	0	
	Drainage	EA	0	2	0	
	Utilities	EA	0	0	0	
	Environmental	EA	0	0	0	
	Structures	EA	0	0	0	
	Signing & Pavement Marking	EA	0	0	0	
	Signalization	EA	0	0	0	
	Lighting	EA	0	0	0	
	Landscape Architecture	EA	0	0	0	
	Survey	EA	0	0	0	
	Photogrammetry	EA	0	0	0	
	ROW & Mapping	EA	0	0	0	
	Terrestrial Mobile LIDAR	EA	0	0	0	
	Architecture	EA	0	0	0	
	Noise Barriers	EA	0	0	0	
	ITS Analysis	EA	0	0	0	
	Geotechnical	EA	0	0	0	
	Progress Meetings	EA	0	0	0	
	Phase Reviews	EA	0	4	0	
	Field Reviews	EA	0	0	0	
<b>Total Project Manager Meetings</b>			0		0	Total PM Meeting Hours carries to Task 3.6 above

**Notes:**

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



**Project Activity 3: General Tasks**

Estimator: Bryan Anderson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)  
003898A

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple	Bryan Anderson	

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

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	
3.1.2	Notifications	LS	1	0	0	
3.1.3	Preparing Mailing Lists	LS	1	0	0	
3.1.4	Median Modification Letters	LS	1	0	0	
3.1.5	Driveway Modification Letters	LS	1	0	0	
3.1.6	Newsletters	LS	1	0	0	
3.1.7	Renderings and Fly Throughs	LS	1	0	0	
3.1.8	PowerPoint Presentation	LS	1	0	0	
3.1.9	Public Meeting Preparations	LS	1	0	0	
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	
3.1.11	Other Agency Meetings	LS	1	0	0	
3.1.12	Web Site	LS	1	0	0	
<b>3.1 Public Involvement Subtotal</b>					<b>0</b>	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	0	16	0	
3.4	Contract Maintenance and Project Documentation	LS	1	0	0	
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	0	0	
3.7	Plans Update	LS	1	0	0	
3.8	Post Design Services	T&M	1	114	114	Pre Const Meeting shop drawing review; RFIs field investigations Attend 2 construction meetings certification / close out; Develop Record Drawings
3.9	Digital Delivery	LS	0	0	0	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.11.1	Aeronautical Evaluation	LS	1	0	0	

**Project Activity 3: General Tasks**

<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	
3.13	Other Project General Tasks	LS	1	0	0	
<b>3. Project Common and Project General Tasks Total</b>					<b>114</b>	

**Project Activity 3: General Tasks**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
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3.6 - List of Project Manager Meetings		Units	No of Units	Hours/ Unit	Total Hours	Comments
	Roadway Analysis	EA	0	2	0	
	Drainage	EA	0	2	0	
	Utilities	EA	0	2	0	
	Environmental	EA	0	0	0	
	Structures	EA	0	0	0	
	Signing & Pavement Marking	EA	0	0	0	
	Signalization	EA	0	0	0	
	Lighting	EA	0	0	0	
	Landscape Architecture	EA	0	0	0	
	Survey	EA	0	0	0	
	Photogrammetry	EA	0	0	0	
	ROW & Mapping	EA	0	0	0	
	Terrestrial Mobile LiDAR	EA	0	0	0	
	Architecture	EA	0	0	0	
	Noise Barriers	EA	0	0	0	
	ITS Analysis	EA	0	0	0	
	Geotechnical	EA	0	0	0	
	Progress Meetings	EA	0	0	0	
	Phase Reviews	EA	0	4	0	
	Field Reviews	EA	0	0	0	
<b>Total Project Manager Meetings</b>			0		0	Total PM Meeting Hours carries to Task 3.6 above

**Notes:**

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

**Project Activity 4: Roadway Analysis**

Estimator: Bryan Anderson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

003898A

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple	Bryan Anderson	

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

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Analysis	LS	1	16	16	4 Sections for Lakeview Road (from Woodcrest Avenue to Brookside Drive per 30% plans) - 1 hr/section for reevaluation = 4 hrs; Woodcrest Avenue from Lakeview Road to Brentwood Drive = 2 hr Brentwood Drive from Woodcrest Avenue to Keene Road = 2 hr Woodside Avenue from Brentwood Drive to Estelle Drive (Pond 3) = 2 hr Brookside Drive from Lakeview Road to Beverly Circle = 1 hr for reevaluation Beverly Circle from Brookside Drive to Allen Creek = 2 hr
4.2	Pavement Type Selection Report	LS	1	0	0	NA
4.3	Pavement Design Package	LS	1	0	0	Pavement design for Lakeview Rd developed during PER Phase, no changes.
4.4	Cross-Slope Correction	LS	1	6	6	Includes all work necessary to analyze existing cross-slopes and develop cross-slope correction concepts. Analysis of existing cross-slopes: LS based on 1 to 4 hours per lane-mile;  Lakeview Road from Woodcrest Avenue to Brookside Drive = 1500' Woodcrest Avenue from Lakeview Road to Brentwood Drive = 335' Brentwood Drive from Woodcrest Avenue to Keene Road = 665' Woodside Avenue from Brentwood Drive to Estelle Drive (Pond 3) = 320' Brookside Drive from Lakeview Road to Brentwood Drive = 300' Brookside Drive from Brentwood Drive to Beverly Circle = 165' Beverly Circle from Brookside Drive to Allen Creek = 205'  Total LF 3,490'  Development of cross-slope correction concepts: Total LF 3,490' = 0.66 mile X 2 lanes X 4 hrs/mile = 6 hrs

**Project Activity 4: Roadway Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.5	Horizontal /Vertical Master Design Files	LS	1	115	115	<p>Work involves establishing the master design files for the horizontal and vertical geometry, drainage structure features, utilities (including conflict location identification and adjustments).</p> <p>Total roadway length as part of the project:</p> <p><b>Lakeview Road from Woodcrest Avenue to Brookside Drive = 1500' (0.28 mile)</b>  Proposed improvements include new stormwater infrastructure, new left-turn lanes along Lakeview Road, new mast arm signals and pedestrian/ADA upgrades at intersection with Keene Road, new sidewalks both sides of Lakeview Road, and driveway reconstruction for harmonization with proposed roadway improvements. Assume full reconstruction of roadway pavement structure to meet County standards.  Full reconstruction length = 0.28 mile</p> <p><b>Woodcrest Avenue from Lakeview Road to Brentwood Drive = 335' (0.06 mile)</b>  Proposed improvements include new stormwater infrastructure (outfall system from Lakeview Rd to Pond 3). Total roadway length will be impacted from installation of new storm sewer infrastructure, assume full reconstruction of roadway pavement structure to meet County standards.  Full reconstruction length = 0.06 mile</p> <p><b>Brentwood Drive from Woodcrest Avenue to Keene Road = 665' (0.13 mile)</b>  Proposed improvements include full reconstruction and cross slope correction length = Woodcrest Avenue to Keene Rd = 665' (0.13 mile)  Full reconstruction length = 0.13 mile</p> <p><b>Woodside Avenue from Brentwood Drive to Estelle Drive (Pond 3) = 320' (0.06 mile)</b>  Proposed improvements include new stormwater infrastructure (outfall system from Lakeview Road) from Woodside Avenue to existing Pond 3. Total roadway length will be impacted from installation of new storm sewer infrastructure, assume full reconstruction of roadway pavement structure (including restoration of cross slope) to meet City standards.  Full reconstruction length = 0.06 mile</p> <p><b>Brookside Drive from Lakeview Road to Brentwood Drive = 300' (0.06 mile)</b>  Proposed improvements include new stormwater infrastructure (outfall system from Lakeview Road) from Lakeview Road to Beverly Circle. Replace all existing underdrain (includes small section along south side of western leg of Beverly Circle). Total roadway length will be impacted from installation of new storm sewer infrastructure, assume full reconstruction of roadway pavement structure (including restoration of cross slope) to meet City standards.  Full reconstruction length = 0.06 mile</p> <p><b>Brookside Drive from Brentwood Drive to Beverly Circle (50% only) = 165' (0.03 mile)</b>  Proposed improvements include new stormwater infrastructure (outfall system from Lakeview Road) from Lakeview Road to Beverly Circle. Replace all existing underdrain (includes small section along south side of western leg of Beverly Circle). Total roadway length will be impacted from installation of new storm sewer infrastructure, assume full reconstruction of roadway pavement structure (including restoration of cross slope) to meet City standards.  Full reconstruction length = 0.03 mile</p> <p><b>Beverly Circle from Brookside Drive to Allen Creek = 205' (0.04 mile)</b>  Proposed improvements include new stormwater infrastructure (outfall system from Lakeview Rd to Allen Creek). Total roadway length will be impacted from installation of new storm sewer infrastructure, assume full reconstruction of roadway pavement structure to meet County standards.  Full reconstruction length = 0.04 mile</p> <p>Total reconstruction length = 0.06 + 0.13 + 0.06 + 0.06 + 0.03 + 0.04 = 0.38 miles X 200 hours/mile = 76 hrs  Total reconstruction length Lakeview Rd = 0.28 X 200 = 56 hrs - (30% of 56 = 17) = 39 hrs</p>
4.6	Access Management	LS	1	0	0	N/A
4.7	Roundabout Evaluation	LS	1	0	0	N/A
4.8	Roundabout Final Design Analysis	LS	1	0	0	N/A

**Project Activity 4: Roadway Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.9	Cross Section Design Files	LS	1	34	34	Per FDOT guidelines average hours for low range project 40-110 hrs per mile @ 100 ft cross sections; use 50 hrs per mile for 50 ft cross sections for Lakeview Rd (update for utilities and earth work);  Lakeview Road from Woodcrest Avenue to Brookside Drive = 1500' = (0.28 mi. X 50 hrs/mi) = 14 hrs; Woodcrest Avenue from Lakeview Road to Brentwood Drive = 335' = (0.06 mi. X 50 hrs/mi) = 3 hrs; Brentwood Drive from Woodcrest Avenue to Keene Road = 665' = (0.13 mile X 50 hrs/mile) = 7 hrs Woodside Avenue from Brentwood Drive to Estelle Drive (Pond 3) = 320' = (0.06 mile X 50 hrs/mile) = 3 hrs Brookside Drive from Lakeview Road to Brentwood Drive = 300' = (0.06 mile X 50 hrs/mile) = 3 hrs Brookside Drive from Brentwood Drive to Beverly Circle (50% only) = 165' = (0.03 mile X 50 hrs/mile) = 2 hrs Beverly Circle from Brookside Drive to Allen Creek = 205' = (0.04 mile X 50 hrs/mile) = 2 hrs  Total = 34 hrs
4.10	Traffic Control Plan Analysis	LS	1	29	29	Level 2: FDOT range 40-60 hrs;  Lakeview Road from Woodcrest Avenue to Brookside Drive = 8 hrs; Woodcrest Avenue from Lakeview Road to Brentwood Drive = 2 hrs; Brentwood Drive from Woodcrest Avenue to Keene Road = 2 hrs Woodside Avenue from Brentwood Drive to Estelle Drive (Pond 3) = 2 hrs Brookside Drive from Lakeview Road to Brentwood Drive = 1 hrs Brookside Drive from Brentwood Drive to Beverly Circle = 1 hrs Beverly Circle from Brookside Drive to Allen Creek = 3 hrs plus temporary signalization = 10 hrs;
4.11	Master TTCP Design Files	LS	1	48	48	Level 2 32-48 hrs per mile per phase (using 2 phases); Total roadway length = 3,150' = 0.60 miles = 0.60 MI X 40 HRS X 2 PHASE = 48 HRS
4.12a	Selective Clearing and Grubbing of Existing Vegetation Field Assessment	LS	1	0	0	N/A
4.12b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	N/A
4.12c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	N/A
4.13	Tree Disposition Plan	LS	1	0	0	N/A
4.14	Design Variations and Exceptions	LS	1	0	0	N/A
4.15	Design Report	LS	1	0	0	N/A: Performed in the PER phase
4.16	Quantities	LS	1	19	19	60% submittal; 90% submittal; Final submittal
4.17	Cost Estimate	LS	1	15	15	60% submittal; 90% submittal; Final submittal
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	6	6	Preparation of specifications
4.19	Other Roadway Analyses	LS	1	36	36	Intersection grading analysis needed to harmonize proposed cross slope correction intersections as follows: Brentwood Dr/Keene Rd Brentwood Dr/Woodcrest Avenue Woodside Ave/Estelle Dr Woodcrest Ave/Lakeview Rd Lakeview Rd/Keene Rd Lakeview Rd/Brookside Dr  Assume 6 hrs/location = 6 X 6 hrs = 36 hrs
<b>Roadway Analysis Technical Subtotal</b>					<b>324</b>	

**Project Activity 4: Roadway Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	2	6	12	2 field investigation = 2 staff X (2 hr field + 1 hr documentation) = 6 hrs
4.21	Monitor Existing Structures	LS	1	0	0	N/A
4.22	Technical Meetings	LS	1	24	24	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	16	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	16	
<b>Roadway Analysis Nontechnical Subtotal</b>					<b>68</b>	
4.26	Coordination	LS	%	3%	12	
<b>4. Roadway Analysis Total</b>					<b>404</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	2	0		no	0
Pavement	EA	0	0	0			0
Access Management	EA	0	0	0			0
15% Line and Grade	EA	0	0	0			0
Driveways	EA	0	0	0			0
Local Governments (cities, counties, MPO)	EA	0	0	0	Covered by Clearwater	no	0
Work Zone Traffic Control	EA	0	0	0			0
30/60/90/100% Comment Review Meetings	EA	3	1	3	PPT review meetings (60/90/100)	yes	3
Other Meetings	EA	7	3	21	Per Scope: 1 R/W Meeting; 4 Progress Meetings; 2 Misc Meetings; 7 mtgs X 3 ppl X 1 hr/mtg	yes	21
<b>Subtotal Technical Meetings</b>				<b>24</b>			<b>24</b>
Progress Meetings (if required by FDOT)	EA	0	0	0		<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>	--
Phase Review Meetings (PER draft & final)	EA	0	0	0		<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>	--
<b>Total Meetings</b>				<b>24</b>		<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>24</b>

Carries to 4.17

Carries to Tab 3

**Project Activity 5: Roadway Plans**

Estimator: Bryan Anderson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

003898A

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple	Bryan Anderson	

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

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	1	0	0	No update, completed during PER;
5.2	Summary of Pay Items Including Quantity Input		Sheet	1	8	8	8 hrs
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	6	6	36	4 sections for Lakeview Dr (completed during 30%) Woodcrest Avenue from Lakeview Road to Brentwood Drive Brentwood Drive from Woodcrest Avenue to Keene Road Woodside Avenue from Brentwood Drive to Estelle Drive (Pond 3) Brookside Drive from Lakeview Road to Brentwood Drive Brookside Drive from Brentwood Drive to Beverly Circle Beverly Circle from Brookside Drive to Allen Creek
5.3.2	Typical Section Details		EA	0	0	0	N/A
5.4	General Notes/Pay Item Notes		Sheet	1	0	0	No update for Lakeview Rd, completed during PER;
5.5	Summary of Quantities Sheets		Sheet	0	0	0	N/A
5.6	Project Layout		Sheet	1	3	3	Updated for new roadway limits
5.7	Plan/Profile Sheet	1"=40"	Sheet	6	6	36	Work includes all plan labeling not included in Master Design File Total Length = 3,490' X (1 sheet/560') =6.2 sheets (USE 6) 60% = 6 sheets X 3 hrs/sheet = 18 hrs 90% = 6 sheets X 2 hrs/sheet = 12 hrs 100% = 6 sheets X 1 hr/sheet = 6 hrs Total = 36 hrs
5.8	Profile Sheet		Sheet	0	0	0	N/A
5.9	Plan Sheet		Sheet	0	0	0	N/A
5.10	Special Profile		Sheet	0	0	0	N/A
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	N/A
5.12	Interchange Layout Sheet		Sheet	0	0	0	N/A



**Project Activity 5: Roadway Plans**

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	N/A
5.14	Intersection Layout Details		Sheet	5	4	20	Intersection detail sheets as follows:  Brentwood Dr/Keene Rd Brentwood Dr/Woodcrest Avenue Woodcrest Ave/Lakeview Rd Lakeview Rd/Keene Rd Lakeview Rd/Brookside Dr  Assume 4 hrs/location
5.15	Special Details		EA	1	0	0	N/A
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	N/A
5.17	Roadway Soil Survey Sheet(s)		Sheet	0	0	0	N/A
5.18	Cross Sections		EA	138	0.25	35	Includes sheet set up and labeling Roadway sections = total length = 3,490' X 1 XS/50 feet = 65 roadway sections <u>Driveways</u> Lakeview Road from Woodcrest Avenue to Brookside Drive = 45 Woodcrest Avenue from Lakeview Road to Brentwood Drive = 5 Brentwood Drive from Woodcrest Avenue to Keene Road = 14 Woodside Avenue from Brentwood Drive to Estelle Drive (Pond 3) = 4 Brookside Drive from Lakeview Road to Brentwood Drive = 3 Brookside Drive from Brentwood Drive to Beverly Circle = 2 (4 total, 50/50 with City) Beverly Circle from Brookside Drive to Allen Creek = 0  73 driveway sections  Total Sections = 65 + 73 = 138
5.19	Temporary Traffic Control Plan Sheets		Sheet	12	4	48	7 roadways @ 2 phases @ 3,490'; 560' per sheet (40' scale) = 6 sheets X 2 phase = 12 sheets.
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	N/A
5.21	Temporary Traffic Control Detail Sheets		Sheet	1	11	11	1 detail sheets
5.22	Utility Adjustment Sheets		Sheet	6	4.5	27	9 facilities X 0.5 hr/sheet = 4.5 hrs/sheet (3,490' @ 560'/sheet @ 40 scale = 6 sheets)
5.23	Selective Clearing and Grubbing Sheet(s)						
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	N/A
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	N/A
5.24	Tree Disposition Sheet(s)						
5.24.1	Tree Disposition Plan Sheet(s)		Sheet	0	0	0	N/A

**Project Activity 5: Roadway Plans**

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	N/A
5.25	Project Control Sheet(s)		Sheet	0	0	0	N/A
5.26	Environmental Detail Sheets		Sheet	0	0	0	N/A
5.27	Utility Verification Sheet(s) (SUE Data)		Sheet	1	1	1	Task 1 - Data from County survey;
<b>Roadway Plans Technical Subtotal</b>						<b>225</b>	
5.28	Quality Assurance/Quality Control		LS	%	5%	11	
5.29	Supervision		LS	%	5%	11	
<b>5. Roadway Plans Total</b>						<b>247</b>	

**Project Activity 6a: Drainage Analysis**

Estimator: Bryan Anderson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

003898A

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple	Bryan Anderson	

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

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	1	11	11	Basin delineation for structures on the following roadways; assuming 0.5 hr/structure:  Lakeview Road from Woodcrest Avenue to Brookside Drive = (completed with 30%) Woodcrest Avenue from Lakeview Road to Brentwood Drive = 2 X 0.5 hr = 1 hr Brentwood Drive from Woodcrest Avenue to Keene Road = 4 X 0.5 hr = 2 hr Woodside Avenue from Brentwood Drive to Estelle Drive = 2 X 0.5 hr = 1 hr Brookside Drive from Lakeview Road to Brentwood Drive = 4 x 0.5 hr = 2 hr Brookside Drive from Brentwood Drive to Beverly Circle = 2 X 0.5 hr = 1 hr (4 total structures, 50/50 County/City) Beverly Circle from Brookside Drive to Allen Creek = 3 X 0.5 hr = 1.5 hr  Added 3 structures for unknowns = 3 X 0.5 hr = 1.5 hrs Updating basins for watershed modeling; Existing and proposed = 2 conditions X 1 hr = 2 hrs
6a.2	Base Clearance Calculations	Per Location	0	0	0	N/A
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	N/A
6a.4	Design of Cross Drains	EA	0	0	0	N/A
6a.5	Design of Ditches	Per Ditch Mile	1	0	0	Task 1 - Lakeview Rd; work completed during PER Phase. No other ditch design work is anticipated.
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	N/A
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	0	0	0	N/A
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	N/A
6a.9	Design of Storm Drains	LS	1	79	79	Lakeview Road from Woodcrest Avenue to Brookside Drive = 35 (1 hr/structure for revisions) Woodcrest Avenue from Lakeview Road to Brentwood Drive = 2 Brentwood Drive from Woodcrest Avenue to Keene Road = 4 Woodside Avenue from Brentwood Drive to Estelle Drive = 2 Brookside Drive from Lakeview Road to Brentwood Drive = 4 Brookside Drive from Brentwood Drive to Beverly Circle = 2 (4 total structures, 50/50 County/City) Beverly Circle from Brookside Drive to Allen Creek = 3  Sub Total New Structures = 17; Add 5 for unknowns = 5; Sub Total New Structures = 22 structures X 2 hrs/structure = 44 hrs Sub Total Partial Design (Lakeview Road) = 35 structures X 1 hr/structure = 35 hrs
6a.10	Optional Culvert Material	EA	0	0	0	N/A
6a.11	French Drain Systems	Per Cell	0	0	0	N/A

**Project Activity 6a: Drainage Analysis**

<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>
6a.11.a	Existing French Drain Systems	Per Cell	0	0	0	N/A
6a.12	Drainage Wells	EA	0	0	0	N/A
6a.13	Drainage Design Documentation Report	LS	1	27	27	Develop drainage design documentation report for permitting.
6a.14	Bridge Hydraulic Report	EA	0	0	0	N/A
6a.15	Temporary Drainage Analysis	LS	1	0	0	N/A
6a.16	Cost Estimate	LS	1	14	14	60% submittal; 90% submittal; Final submittal

**Project Activity 6a: Drainage Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.17	Technical Special Provisions / Modified Special Provisions	LS	1	0	0	N/A
6a.18	Hydroplaning Analysis	LS	1	0	0	N/A
6a.19	Existing Permit Analysis	LS	1	0	0	N/A
6a.20	Other Drainage Analysis	LS	1	40	40	Updating ICPR (v4) watershed model; 2 basins X 15 hrs/basin = 30 hrs
6a.21	Noise Barrier Evaluation	LS	1	0	0	N/A
<b>Drainage Analysis Technical Subtotal</b>					<b>171</b>	
6a.22	Field Reviews	LS	1	7	7	1 field investigation
6a.23	Technical Meetings	LS	1	8	8	Meetings are listed below
6a.24	Environmental Look-Around (ELA) Meeting	LS	1	0	0	N/A
6a.25	Quality Assurance/Quality Control	LS	%	5%	9	
6a.26	Independent Peer Review	LS	%	0%	0	
6a.27	Supervision	LS	%	5%	9	
<b>Drainage Analysis Nontechnical Subtotal</b>					<b>33</b>	
6a.28	Coordination	LS	%	3%	6	
<b>6a. Drainage Analysis Total</b>					<b>210</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	0	0	0			0
Agency	EA	1	2	2	SWFWMD		0
Local Governments (cities, counties)	EA	0	2	0		no	0
FDOT Drainage	EA	0	0	0			0
30/60/90/100% Comment Review Meetings	EA	3	2	6	PPT review meetings (60/90/100)	no	0
<b>Subtotal Technical Meetings</b>				<b>8</b>			<b>0</b>
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
<b>Total Meetings</b>				<b>8</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

Carries to 6.19

Carries to Tab 3

**6b. Drainage Plans**

Estimator: Bryan Anderson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

003898A

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple	Bryan Anderson	

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

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (Including Interchanges)		Sheet	1	11	11	Updates to Existing and Proposed Basin maps
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	N/A
6b.3	Summary of Drainage Structures		Sheet	3	12	36	79 structures @ 30 structures/sheet = 3 sheets X 12 hrs/sheet = 36 hrs
6b.4	Optional Pipe/Culvert Material		Sheet	0	0	0	N/A
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	79	2	158	Drainage structure sheets
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	1	8	8	Outfall detail sheet Allen's Creek
6b.7	Lateral Ditch Plan/Profile		Sheet	3	4	12	Grading revisions for offsite structures along: Lakeview Rd - 2 sheets Brentwood Dr - 1 sheet
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	N/A
6b.9	Retention/Detention Ponds Detail Sheet(s)		Sheet	1	0	0	N/A
6b.10	Retention Pond Cross Sections		EA	1	0	0	N/A
6b.11	Erosion Control Plan Sheet(s)		Sheet	5	1.4	7	5 sheets at double stacked plan views

**6b. Drainage Plans**

6b.12	SWPPP Sheet(s)		Sheet	0	0	0	N/A; Work completed during PER Phase;
<b>Drainage Plans Technical Subtotal</b>						<b>232</b>	
6b.13	Quality Assurance/Quality Control		LS	%	5%	12	
6b.14	Supervision		LS	%	5%	12	
<b>6. Drainage Plans Total</b>						<b>256</b>	

**6b. Drainage Plans**

Original hrs = 16; 67/33 County/City

Original hrs = 12; 67/33 County/City

Original hrs = 10; 67/33 County/City



**Project Activity 7: Utilities**

Estimator: Bryan Anderson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)  
003898A

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple	Bryan Anderson	

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

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Utility Kickoff Meeting	LS	1	0	0	Meeting is listed below
7.2	Identify Existing Utility Agency Owner(s)	LS	1	0	0	Performed by County
7.3	Make Utility Contacts	LS	1	0	0	Performed by County
7.4	Exception Processing	LS	1	0	0	
7.5	Preliminary Utility Meeting	LS	1	0	0	
7.6	Individual/Field Meetings	LS	1	3	3	
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	12	12	2 submittals (60 & 100) to UAOs; assume UAOs: Electric/City of Clearwater - Water and Sanitary/County - Water & Traffic/Gas/3 communications (Verzion, WOW, Spectrum) - 9 total facilities Assume 1 hrs X 9 facilities X 2 contacts = 18
7.8	Subordination of Easements Coordination	LS	1	0	0	
7.9	Utility Design Meeting	LS	1	8	8	2 meetings (post-60% and pre 100%) X 2 ppl X (1 hr mtg + 2 hr prep)
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	1	0	0	Performed by County all phases
7.11	Utility Coordination/Followup	LS	1	8	8	Assist the County utility coordinator for resolving utility conflicts
7.12	Utility Constructability Review	LS	1	0	0	Performed by County
7.13	Additional Utility Services	LS	1	0	0	Performed by County
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	

**Project Activity 7: Utilities**

7.15	Contract Plans to UAO(s)	LS	1	0	0	Performed by County
7.16	Certification/Close-Out	LS	1	0	0	Performed by County
7.17	Other Utilities	LS	1	20	20	Develop and update utility matrix

**Project Activity 7: Utilities**

<b>7. Utilities Total</b>	<b>51</b>
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Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff (see 7.1)	EA	0	0	0			0
Preliminary Meeting (see 7.5)	EA	0	0	0			0
Individual UAO Meetings (see 7.6)	EA	0	3	0			0
Field Meetings (see 7.6)	EA	1	2	2	Assuming 1 field meeting to review utility conflicts	yes	1
Design Meeting (see 7.9)	EA	0	0	0			0
Other Meetings ( <i>this is automatically added into Utilities Total (cell F27)</i> )	EA	0	0	0			0
<b>Total Meetings</b>				<b>2</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>1</b>

Carries to Tab 3

**Project Activity 8: Environmental Permits**

Estimator: Bryan Anderson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

003898A

Representing	Print Name	Signature / Date
Pinellas County		
ESA	Ryan Horstman	

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

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
<b>Environmental Permits and Environmental Clearances</b>						
8.1	Preliminary Project Research	LS	0	0	0	
<b>Permits</b>						
8.2	<b>Field Work</b>					
8.2.1	Pond Site Alternatives	per pond site	0	0	0	
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	0	8	0	
8.2.3	Species Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	0	0	
8.4	<b>Complete And Submit All Required Permit Applications</b>					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	14	14	Prepare supplemental documentation for SWFWMD and FDEP 404 General Permit applications. Respond to two RAIs.
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	0	0	
8.6	Prepare USCG Permit Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	0	0	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	0	0	
8.10	Compensatory Mitigation Plan	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	0	0	
8.12	Other Environmental Permits	LS	1	0	0	
<b>Environmental Clearances/Reevaluations</b>						
8.13	<b>Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)</b>					

**Project Activity 8: Environmental Permits**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Resources	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.13.5	Protected Speices and Habitat Impact Analysis	LS	1	0	0	
8.14	<b>Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)</b>					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Resources	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.14.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	1	0	0	
<b>Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal</b>					<b>14</b>	
8.17	Technical Meetings	LS	1	0	0	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	%	5%	1	
8.19	Supervision	LS	%	5%	1	
<b>Environmental Permits and Environmental Clearances Nontechnical Subtotal</b>					<b>2</b>	
8.20	Coordination	LS	%	3%	0	
<b>8. Environmental Permits and Environmental Clearances Total</b>					<b>16</b>	

**Project Activity 8: Environmental Permits**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		
Technical Meetings		Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
	WMD	EA	0	2	0			0
	NMFS	EA	0	0	0			0
	USACE	EA	0	0	0			0
	USCG	EA	0	0	0			0
	USFWS	EA	0	0	0			0
	FFWCC	EA	0	0	0			0
	FDOT	EA	0	0	0			0
	Other Meetings	EA	0	0	0			0
<b>Subtotal Technical Meetings</b>					<b>0</b>	<b>Subtotal Project Manager Meetings</b>		<b>0</b>
	Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
	Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
<b>Total Meetings</b>					<b>0</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

Carries to 8.18

Carries to Tab 3

**Project Activity 8: Environmental Permits**

Estimator: Bryan Anderson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

003898A

Representing	Print Name	Signature / Date
Pinellas County		
ESA	Ryan Horstman	

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

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
<b>Environmental Permits and Environmental Clearances</b>						
8.1	Preliminary Project Research	LS	1	3	3	Background research and review of existing permits
<b>Permits</b>						
8.2	<b>Field Work</b>					
8.2.1	Pond Site Alternatives	per pond site	0	0	0	
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	8	8	Field delineation, conditions assessment, and general species review
8.2.3	Species Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	6	6	Two field reviews (SWFWMD and FDEP 404)
8.4	<b>Complete And Submit All Required Permit Applications</b>					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	14	14	SWFWMD and FDEP 404 General Permit Application and associated support docs. Up to two RAIs.
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	0	0	
8.6	Prepare USCG Permit Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	0	0	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	0	0	
8.10	Compensatory Mitigation Plan	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	0	0	
8.12	Other Environmental Permits	LS	1	0	0	
<b>Environmental Clearances/Reevaluations</b>						
8.13	<b>Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)</b>					

**Project Activity 8: Environmental Permits**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Resources	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.13.5	Protected Speices and Habitat Impact Analysis	LS	1	0	0	
8.14	<b>Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)</b>					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Resources	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.14.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	1	0	0	
<b>Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal</b>					<b>31</b>	
8.17	Technical Meetings	LS	1	2	2	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	%	3%	0	
8.19	Supervision	LS	%	3%	0	
<b>Environmental Permits and Environmental Clearances Nontechnical Subtotal</b>					<b>2</b>	
8.20	Coordination	LS	%	3%	0	
<b>8. Environmental Permits and Environmental Clearances Total</b>					<b>33</b>	



**Project Activity 8: Environmental Permits**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		
Technical Meetings		Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
	WMD	EA	1	2	2			0
	NMFS	EA	0	0	0			0
	USACE	EA	0	0	0			0
	USCG	EA	0	0	0			0
	USFWS	EA	0	0	0			0
	FFWCC	EA	0	0	0			0
	FDOT	EA	0	0	0			0
	Other Meetings	EA	0	0	0			0
<b>Subtotal Technical Meetings</b>					<b>2</b>	<b>Subtotal Project Manager Meetings</b>		<b>0</b>
	Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
	Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
<b>Total Meetings</b>					<b>2</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

Carries to 8.18

Carries to Tab 3

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

Name of Project: Lakeview Road and Keene Road Intersection and Drainage Improvements

BASIC SERVICES

Consultant Name: WSP

Consultant No.:

Date: 8/5/2022

Estimator: Todd Mitchell

PID: 003898A

Staff Classification	Total Staff Hours From "SH Summary -											SH By Activity	Salary Cost By Activity	Average Rate Per Task		
		Chief Engineer	Eng 2	Eng 1												
		\$243.09	\$166.25	\$133.92												
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	51	0	15	0	0	21	15	0	0	0	0	0	0	51	\$9,146	\$179.34
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	16	0	1	0	0	6	9	0	0	0	0	0	0	16	\$2,446	\$152.87
18. Structures - Miscellaneous	118	0	6	0	0	47	65	0	0	0	0	0	0	118	\$17,977	\$152.35
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	185	0	22	0	0	74	89	0	0	0	0	0	0	185		
<b>Total Staff Cost</b>		\$0.00	\$5,347.98	\$0.00	\$0.00	\$12,302.50	\$11,918.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$29,569.36	\$159.83

Survey Field Days by Subconsultant  
4 - Person Crew:

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

SALARY RELATED COSTS:				Check = \$29,569.36	\$29,569.36
OVERHEAD:		0%			\$0.00
OPERATING MARGIN:		0%			\$0.00
FCCM (Facilities Capital Cost Money):		0.00%			\$0.00
EXPENSES:		0.00%			\$0.00
Survey (Field - if by Prime)	#REF!	4-person crew days @	\$ - / day		\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>					<b>\$29,569.36</b>
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
Subconsultant:	#REF!				\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>					<b>\$29,569.36</b>
Geotechnical Field and Lab Testing					\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>					<b>\$29,569.36</b>
Optional Services					\$0.00
<b>GRAND TOTAL ESTIMATED FEE:</b>					<b>\$29,569.36</b>

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

Name of Project: Lakeview Road and Keene Road Intersection and Drainage Improvements

Consultant Name: WSP

PID: 003898A

Consultant No.:

Date: 8/5/2022

Estimator: Todd Mitchell

Staff Classification	Total Staff Hours From "SH Summary -	0	Chief Engineer	0	0	Eng 2	Eng 1	0	0	0	0	0	0	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$0.00	\$243.09	\$0.00	\$0.00	\$166.25	\$133.92	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	12	0	4	0	0	4	4	0	0	0	0	0	0	12	\$2,173	\$181.09
17. Structures - Retaining Walls	73	0	4	0	0	29	40	0	0	0	0	0	0	73	\$11,150	\$152.75
<b>Total Staff Hours</b>	85	0	8	0	0	33	44	0	0	0	0	0	0	85		
<b>Total Staff Cost</b>		\$0.00	\$1,944.72	\$0.00	\$0.00	\$5,486.25	\$5,892.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$13,323.45</b>	<b>\$156.75</b>

Check = \$13,323.45

Survey Field Days by Subconsultant 4 - Person Crew:
--

Notes:

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

SALARY RELATED COSTS:				\$13,323.45
OVERHEAD:		0%		\$0.00
OPERATING MARGIN:		0%		\$0.00
FCCM (Facilities Capital Cost Money):		0.00%		\$0.00
EXPENSES:		0.00%		\$0.00
Survey (Field - if by Prime)	#REF!	4-person crew days @	\$ - / day	\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$13,323.45</b>
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
Subconsultant:	#REF!			\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$13,323.45</b>
Geotechnical Field and Lab Testing				\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$13,323.45</b>
Optional Services				\$0.00
<b>GRAND TOTAL ESTIMATED FEE:</b>				<b>\$13,323.45</b>

**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project: #REF!  
 County: #REF!  
 FPN: #REF!  
 FAP No.: #REF!

BASIC SERVICES

Consultant Name: Tierra  
 Consultant No.: 6511-15-192  
 Date: 8/5/2022  
 Estimator: Marc Novak, Mike Bair (Tierra)

Staff Classification	Total Staff Hours From "SH Summary Firm"	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	SH By Activity	Salary Cost By Activity	Average Rate Per Task
#REF!	#REF!	\$166.50	\$171.00	\$137.04	\$141.64	\$113.81	\$96.62	\$115.65	\$93.32	\$82.61	\$66.39	\$72.00	\$0.00	#REF!	#REF!	#REF!
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
<b>Total Staff Hours</b>	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
<b>Total Staff Cost</b>	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

Notes:  
 1. This sheet to be used by Subconsultant to calculate its fee.

		Check =	#REF!
SALARY RELATED COSTS:			\$0.00
OVERHEAD:		0%	\$0.00
OPERATING MARGIN:		0%	\$0.00
FCCM (Facilities Capital Cost Money):		0.00%	\$0.00
EXPENSES:		0.00%	\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>			<b>\$0.00</b>
<b>Contamination Field and Test Units</b>			
Geotechnical Field and Lab Testing			\$31,891.93
<b>SUBTOTAL ESTIMATED FEE:</b>			<b>\$31,891.93</b>
Optional Services			\$0.00
<b>GRAND TOTAL ESTIMATED FEE:</b>			<b>\$31,891.93</b>

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

Estimator: Todd Mitchell

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

003898A

Representing	Print Name	Signature / Date
Pinellas County		
WSP	Todd Mitchell	

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

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
<b>General Drawings</b>											
9.1	Key Sheet and Index of Drawings	Sheet	0	0	0	0					
9.2	Project Layout	Sheet	0	0	0	0					
9.3	General Notes and Bid Item Notes	Sheet	0	0	0	0					
9.4	Miscellaneous Common Details	Sheet	0	0	0	0					
9.5	Incorporate Report of Core Borings	Sheet	3	1	3	3	(1) lighting, (1) sign fnd, (1) mast arm intersection.				
9.6	Standard Plans- Bridges	LS	1	0		0					
9.7	Existing Bridge Plans	LS	1	0		0					
9.8	Assemble Plan Summary Boxes and Quantities	LS	1	4		4					
9.9	Cost Estimate	LS	1	4		4					
9.10	Technical Special Provisions and Modified Special Provisions	LS	1	0		0					
<b>Structures - Summary and Miscellaneous Tasks and Drawings</b>					3	11					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 1	0	0	0	0	0	0	0	0		
10-16	Bridge 2	0									
10-16	Bridge 3	0									
10-16	Bridge 4	0									
10-16	Bridge 5	0									
10-16	Bridge 6	0									

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

10-16	Bridge 7	0									
10-16	Bridge 8	0									
10-16	Bridge 9	0									
10-16	Bridge 10	0									
17	Retaining Walls	16								16	
18	Miscellaneous Structures	118									118
<b>Structures Technical Subtotal</b>		134	0	0	0	0	0	0	0	16	118
<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No. of Units</b>	<b>Hours per Unit</b>	<b>Total</b>	<b>Comments</b>					
9.11	Field Reviews	LS	1	8	8	(1 review x 2 people x 4hr) = 8hr					
9.12	Technical Meetings	LS	1	10	10	Meetings are listed below					
9.13	Quality Assurance/Quality Control	LS	%	5%	7						
9.14	Independent Peer Review	LS	1	0	0						
9.15	Supervision	LS	%	5%	7						
<b>Structures Nontechnical Subtotal</b>					32						
9.16	Coordination	LS	1	8	8	Roadway (2), Signing (2), Signals (2), Geotech (2)					
<b>9. Structures - Summary and Miscellaneous Tasks and Drawings</b>					51						

<b>Technical Meetings</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>	<b>PM Attendance at Meeting Required?</b>	<b>Number</b>
BDR Coordination/Review	EA	0	0	0			0
90/100% Comment Review	EA	3	2	6	90%, 100%, Final Comment/Responses		0
Aesthetics Coordination	EA	0	0	0			0
Regulatory Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	0	0	0			0
Utility Companies	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
<b>Subtotal Technical Meetings</b>				<b>6</b>			<b>0</b>
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	2	2	4	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
<b>Total Meetings</b>				<b>10</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

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

Carries to 9.11

Carries to Tab 3

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

Estimator: Todd Mitchell

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)  
Optional Services - WSP Structures

Representing	Print Name	Signature / Date
Pinellas County		
WSP	Todd Mitchell	

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

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
<b>General Drawings</b>											
9.1	Key Sheet and Index of Drawings	Sheet	0	0	0	0					
9.2	Project Layout	Sheet	0	0	0	0					
9.3	General Notes and Bid Item Notes	Sheet	0	0	0	0					
9.4	Miscellaneous Common Details	Sheet	0	0	0	0					
9.5	Incorporate Report of Core Borings	Sheet	0	0	0	0					
9.6	Standard Plans- Bridges	LS	0	0	0	0					
9.7	Existing Bridge Plans	LS	0	0	0	0					
9.8	Assemble Plan Summary Boxes and Quantities	LS	0	0	0	0					
9.9	Cost Estimate	LS	1	4	0	4	Allen Creek outfall (Beverly Circle N) - New wingwall design				
9.10'	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	0					
<b>Structures - Summary and Miscellaneous Tasks and Drawings</b>					0	4					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 1	0	0	0	0	0	0	0	0		
10-16	Bridge 2	0									
10-16	Bridge 3	0									
10-16	Bridge 4	0									
10-16	Bridge 5	0									
10-16	Bridge 6	0									



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

10-16	Bridge 7	0									
10-16	Bridge 8	0									
10-16	Bridge 9	0									
10-16	Bridge 10	0									
17	Retaining Walls	0								0	
18	Miscellaneous Structures	0									0
<b>Structures Technical Subtotal</b>		0	0	0	0	0	0	0	0	0	0
<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No. of Units</b>	<b>Hours per Unit</b>	<b>Total</b>	<b>Comments</b>					
9.11	Field Reviews	LS	1	0	0	Covered under Task 1					
9.12	Technical Meetings	LS	1	0	0	Covered under Task 1					
9.13	Quality Assurance/Quality Control	LS	%	5%	4						
9.14	Independent Peer Review	LS	1	0	0						
9.15	Supervision	LS	%	5%	2						
<b>Structures Nontechnical Subtotal</b>					6						
9.16	Coordination	LS	1	2	2	Roadway (2) (associated with new wingwall design)					
<b>9. Structures - Summary and Miscellaneous Tasks and Drawings</b>					12						

<b>Technical Meetings</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>	<b>PM Attendance at Meeting Required?</b>	<b>Number</b>
BDR Coordination/Review	EA	0	0	0			0
90/100% Comment Review	EA	0	0	0	0		0
Aesthetics Coordination	EA	0	0	0			0
Regulatory Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	0	0	0			0
Utility Companies	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
<b>Subtotal Technical Meetings</b>				<b>0</b>			<b>0</b>
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
<b>Total Meetings</b>				<b>0</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

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

Carries to 9.11

Carries to Tab 3

**Project Activity 17: Retaining Walls**

Estimator: Todd Mitchell

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

003898A

Representing	Print Name	Signature / Date
Pinellas County		
WSP	Todd Mitchell	

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

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
<b>General Requirements</b>							
17.1	Key Sheet	Sheet	0	0	0	0	
17.2	Horizontal Wall Geometry	Per Wall	0	0		0	
<b>Permanent Proprietary Walls</b>							
17.3	Vertical Wall Geometry	Per Wall	0	0		0	
17.4	Semi-Standard Drawings	Sheet	0	0	0	0	
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	
17.6	Details	Sheet	0	0	0	0	
<b>Temporary Proprietary Walls</b>							
17.7	Vertical Wall Geometry	Per Wall	0	0		0	
17.8	Semi-Standard Drawings	Sheet	0	0	0	0	
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	
17.10	Details	Sheet	0	0	0	0	
<b>Cast-in-Place Retaining Walls</b>							
17.11	Design	EA Design	0	0		0	
17.12	Vertical Wall Geometry	EA Wall	0	0		0	
17.13	General Notes	Sheet	0	0	0	0	
17.14	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	
17.15	Sections and Details	Sheet	1	16	1	16	Detail for storm pipe penetration at Allen Creek headwall
17.16	Reinforcing Bar List	Sheet	0	0	0	0	

**Project Activity 17: Retaining Walls**

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
<b>Other Retaining Walls and Bulkheads</b>							
17.17	Design	EA Design	0	0		0	
17.18	Vertical Wall Geometry	EA Wall	0	0		0	
17.19	General Notes, Tables and Misc. Details	Sheet	0	0	0	0	
17.20	Wall Plan and Elevations	Sheet	0	0	0	0	
17.21	Details	Sheet	0	0	0	0	
<b>17. Structures - Retaining Walls Total</b>					<b>1</b>	<b>16</b>	

**Project Activity 17: Retaining Walls**

Estimator: Todd Mitchell

Representing	Print Name
Pinellas County	
WSP	Todd Mitchell

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

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours
<b>General Requirements</b>						
17.1	Key Sheet	Sheet	0	0	0	0
17.2	Horizontal Wall Geometry	Per Wall	0	0		0
<b>Permanent Proprietary Walls</b>						
17.3	Vertical Wall Geometry	Per Wall	0	0		0
17.4	Semi-Standard Drawings	Sheet	0	0	0	0
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0
17.6	Details	Sheet	0	0	0	0
<b>Temporary Proprietary Walls</b>						
17.7	Vertical Wall Geometry	Per Wall	0	0		0
17.8	Semi-Standard Drawings	Sheet	0	0	0	0
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0
17.10	Details	Sheet	0	0	0	0
<b>Cast-in-Place Retaining Walls</b>						
17.11	Design	EA Design	1	32		32
17.12	Vertical Wall Geometry	EA Wall	0	0		0
17.13	General Notes	Sheet	1	3	1	3
17.14	Wall Plan and Elevations (Control Drawings)	Sheet	1	16	1	16
17.15	Sections and Details	Sheet	1	16	1	16
17.16	Reinforcing Bar List	Sheet	1	6	1	6

**Project Activity 17: Retaining Walls**

<b>Task No.</b>	<b>Task</b>	<b>Unit</b>	<b>No. of Units</b>	<b>Hours/ Unit</b>	<b>No. of Sheets</b>	<b>Total Hours</b>
<b>Other Retaining Walls and Bulkheads</b>						
17.17	Design	EA Design	0	0		0
17.18	Vertical Wall Geometry	EA Wall	0	0		0
17.19	General Notes, Tables and Misc. Details	Sheet	0	0	0	0
17.20	Wall Plan and Elevations	Sheet	0	0	0	0
17.21	Details	Sheet	0	0	0	0
<b>17. Structures - Retaining Walls Total</b>					<b>4</b>	<b>73</b>



**Project Activity 17: Retaining Walls**

Comments



**Project Activity 18: Miscellaneous Structures**

Estimator: Todd Mitchell

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

003898A

Representing	Print Name	Signature / Date
Pinellas County		
WSP	Todd Mitchell	

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

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
<b>Concrete Box Culvert</b>							
18.1	Concrete Box Culverts	EA	0	0		0	
18.2	Concrete Box Culverts Extensions	EA Extension	0	0		0	
18.3	Concrete Box Culvert Data Table Plan Sheets	Sheet	0	0	0	0	
18.4	Concrete Box Culvert Special Details Plan Sheets	Sheet	0	0	0	0	
<b>Strain Poles</b>							
18.5	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.6	Concrete Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.7	Strain Pole Data Table Plan Sheets	Sheet	0	0	0	0	
18.8	Strain Pole Special Details Plan Sheets	Sheet	0	0	0	0	
<b>Mast Arms</b>							
18.9	Mast Arms	EA Design	1	48		48	Assume (2) standard mast arms with standard foundations, no luminaires. (2*8hr)=16 (2) standard mast arms with special foundations, no luminaires. (2*16hr)=32 (16+32=48hr)
18.10	Mast Arms Data Table Plan Sheets	Sheet	1	6	1	6	
18.11	Mast Arm Special Details Plan Sheets	Sheet	0	0	0	0	
<b>Overhead/Cantilever Sign Structures</b>							
18.12	Cantilever Sign Structures	EA Design	0	0		0	
18.13	Overhead Span Sign Structures	EA Design	0	0		0	
18.14	Special (Long Span) Overhead Span Sign Structures	EA Design	0	0		0	
18.15	Monotube Overhead Sign Structure	EA Design	0	0		0	
18.16	Bridge Mounted Signs (Attached to Superstr.)	EA Design	0	0		0	
18.17	Overhead and Cantilever Sign Structures Data Table Plan Sheets	Sheet	0	0	0	0	
18.18	Overhead and Cantilever Sign Structures Special Details Plan Sheets	Sheet	0	0	0	0	
<b>High Mast Lighting</b>							
18.19	Non-Standard High Mast Lighting Structures	EA Design	0	0		0	
18.20	High Mast Lighting Special Details Plan Sheets	Sheet	0	0	0	0	
<b>Noise Barrier Walls (Ground Mount)</b>							
18.21	Horizontal Wall Geometry	EA Wall	0	0		0	
18.22	Vertical Wall Geometry	EA Wall	0	0		0	
18.23	Summary of Quantities - Aesthetic Requirements	Sheet	0	0	0	0	
18.24	Control Drawings	Sheet	0	0	0	0	
18.25	Design of Noise Barrier Walls Covered by Standards	EA Design	0	0		0	
18.26	Design of Noise Barrier Walls Not Covered by Standards	EA Design	0	0		0	

**Project Activity 18: Miscellaneous Structures**

18.27	Aesthetic Details	LS	1	0		0	
<b>Special Structures</b>							
18.28	Fender System	LS	1	0		0	
18.29	Fender System Access	LS	1	0		0	
18.30	Special Structures	LS	1	0		0	
18.31	Other Structures	LS	1	64		64	(1) shallow foundation for light pole 12 hr (1) shallow foundation for sign structure 12 hr Spread footing detail Sheets (2) - 20 hr each = 40 hr (12+12+40=64hr)
<b>Ancillary Structures Report</b>							
18.32	Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles	EA structure	0	0	0	0	
18.33	Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles (No As built or Design Plans Available)	EA structure	0	0	0	0	
18.34	Analytical Evaluation of Signal and Sign Structures, and High Mast Light Poles	EA structure	0	0	0	0	
18.35	Ancillary Structures Report	LS	1	0		0	
<b>18. Structures - Miscellaneous Total</b>						<b>1</b>	<b>118</b>

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

Estimator: Hendrickson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple		

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

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	
19.2	No Passing Zone Study	LS	1	0	0	
19.3	Signing and Pavement Marking Master Design File	LS	1	58	58	5 hrs setup + 20 hrs (40 hrs/mi x 1.00 mile) + 4 hrs/intersection
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	
19.5	Sign Panel Design Analysis	EA	1	0	0	
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	
19.7	Quantities	LS	1	5	5	5 plan sheets x 1 hrs each
19.8	Cost Estimate	LS	1	6	6	2 hrs/estimate x 3 estimates
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
19.10	Other Signing and Pavement Marking	LS	1	0	0	
<b>Signing and Pavement Marking Analysis Technical Subtotal</b>					<b>69</b>	
19.11	Field Reviews	LS	1	3	3	1 field review x 2 people x 6 hrs (includes travel time)
19.12	Technical Meetings	LS	1	3	3	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	3	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	3	
<b>Signing and Pavement Marking Analysis Nontechnical Subtotal</b>					<b>12</b>	
19.16	Coordination	LS	%	3%	2	
<b>19. Signing and Pavement Marking Analysis Total</b>					<b>83</b>	

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

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

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments			
	Queue Length Analysis	EA	0	0	0			0	
	Local Governments (cities, counties)	EA	0	0	0			0	
	Other Meetings	EA	1	3	3			0	
<b>Subtotal Technical Meetings</b>					<b>3</b>	<b>Subtotal Project Manager Meetings</b>			<b>0</b>
	Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3			--
	Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3			--
<b>Total Meetings</b>					<b>3</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>			<b>0</b>

Carries to 19.12

Carries to Tab 3

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

Estimator: Hendrickson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple		

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

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	0	0	0	0	no separate key sheet
20.2	Summary of Pay Items Including Input		LS	1	0		0	
20.3	Tabulation of Quantities		Sheet	1	4	1	4	2 hrs (1 sheet)
20.4	General Notes/Pay Item Notes		Sheet	1	2	1	2	
20.5	Project Layout		Sheet	0	0	0	0	
20.6	Plan Sheet		Sheet	5	8	5	40	
20.7	Typical Details		EA	1	4		4	1 detail sheet
20.8	Guide Sign Worksheets		EA	0	0		0	
20.9	Traffic Monitoring Site		EA	0	0		0	
20.10	Cross Sections		EA	0	0		0	
20.11	Special Service Point Details		EA	0	0		0	
20.12	Special Details		LS	1	0		0	
20.13	Interim Standards		LS	1	0		0	
<b>Signing and Pavement Marking Plans Technical Subtotal</b>						<b>7</b>	<b>50</b>	
20.14	Quality Assurance/Quality Control		LS	%	5%		3	
20.15	Supervision		LS	%	5%		3	
<b>20. Signing and Pavement Marking Plans Total</b>						<b>7</b>	<b>56</b>	

**Project Activity 21: Signalization Analysis**

Estimator: Hendrickson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple		

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

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
21.1	Traffic Data Collection	LS	1	0	0	
21.2	Traffic Data Analysis	PI	1	6	6	All Red, Yellow, & Ped clearance calcs
21.3	Signal Warrant Study	LS	1	0	0	
21.4	System Timings	LS	1	0	0	
21.5	Reference and Master Signalization Design File	PI	1	30	30	
21.6	Reference and Master Interconnect Communication Design File	LS	1	0	0	
21.7	Overhead Street Name Sign Design	EA	4	2	8	
21.8	Pole Elevation Analysis	LS	1	2	2	
21.9	Traffic Signal Operation Report	LS	1	0	0	
21.10	Quantities	LS	1	8	8	
21.11	Cost Estimate	LS	1	8	8	Initial (4 hrs) + 2 updates @ 2 hrs/each
21.12	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
21.13	Other Signalization Analysis	LS	1	0	0	
<b>Signalization Analysis Technical Subtotal</b>					<b>62</b>	
21.14	Field Reviews	LS	1	6	6	1 field review x 2 people x 3 hrs
21.15	Technical Meetings	LS	1	6	6	Meetings are listed below
21.16	Quality Assurance/Quality Control	LS	%	5%	3	
21.17	Independent Peer Review	LS	%	0%	0	
21.18	Supervision	LS	%	5%	3	
<b>Signalization Analysis Nontechnical Subtotal</b>					<b>18</b>	

**Project Activity 21: Signalization Analysis**

21.19	Coordination	LS	%	3%	2	
<b>21. Signalization Analysis Total</b>					<b>82</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
FDOT Traffic Operations	EA	0	0	0			0
FDOT Traffic Design	EA	0	0	0			0
Power Company (service point coordination)	EA	1	3	3			0
Maintaining Agency (cities, counties)	EA	1	3	3			0
Railroads	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
<b>Subtotal Technical Meetings</b>				<b>6</b>		<b>Subtotal Project Manager Meetings</b>	<b>0</b>
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
<b>Total Meetings</b>				<b>6</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

Carries to 21.15

Carries to Tab 3

**Project Activity 22: Signalization Plans**

Estimator: Hendrickson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple		

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

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
22.1	Key Sheet		Sheet	0	0	0	0	no separate key sheet
22.2	Summary of Pay Items Including Designer Interface Input		Sheet	0	0	0	0	
22.3	Tabulation of Quantities		Sheet	1	8	1	8	1 sheet, includes Lighting
22.4	General Notes/Pay Item Notes		Sheet	1	6	1	6	
22.5	Plan Sheet		Sheet	1	6	1	6	
22.6	Interconnect Plans		Sheet	0	0	0	0	
22.7	Traffic Monitoring Site		EA	0	0		0	
22.8	Guide Sign Worksheet		EA	1	2		2	
22.9	Special Details		Sheet	1	8	1	8	ped signal details 10 scale per corner showing direction & orientation of push button
22.10	Special Service Point Details		EA	0	0		0	
22.11	Mast Arm/Monotube Tabulation Sheet		PI	1	4		4	
22.12	Strain Pole Schedule		PI	0	0		0	
22.13	TTCP Signal		EA	0	0		0	
22.14	Temporary Detection Sheet		PI	0	0		0	
22.15	Utility Conflict Sheet		Sheet	1	6	1	6	details showing SUE data for each corner
22.16	Interim Standards		LS	1	0		0	
<b>Signalization Plans Technical Subtotal</b>						<b>5</b>	<b>40</b>	
22.17	Quality Assurance/Quality Control		LS	%	5%		2	
22.18	Supervision		LS	%	5%		2	
<b>22. Signalization Plans Total</b>						<b>5</b>	<b>44</b>	



**Project Activity 23: Lighting Analysis**

Estimator: Hendrickson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple		

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

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
23.1	Lighting Justification Report	LS	1	0	0	
23.2	Lighting Design Analysis Report (LDAR)	LS	1	12	12	
23.3	Voltage Drop Calculations	EA	0	0	0	
23.4	FDEP Coordination and Report	LS	1	0	0	
23.5	Reference and Master Design Files	LS	1	14	14	intersection lighting
23.6	Temporary Highway Lighting	LS	1	0	0	
23.7	Design Documentation	LS	1	0	0	
23.8	Quantities	LS	1	3	3	
23.9'	Cost Estimate	LS	1	8	8	Initial (4 hrs) + 2 updates @ 2 hrs/each
23.10	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
23.11	Other Lighting Analysis	LS	1	0	0	
<b>Lighting Analysis Technical Subtotal</b>					<b>37</b>	
23.12	Field Reviews	LS	1	0	0	Included in Signals
23.13	Technical Meetings	LS	1	6	6	
23.14	Quality Assurance/Quality Control	LS	%	5%	2	
23.15	Independent Peer Review	LS	%	0%	0	
23.16	Supervision	LS	%	5%	2	
<b>Lighting Analysis Nontechnical Subtotal</b>					<b>10</b>	
23.17	Coordination	LS	%	3%	1	
<b>23. Lighting Analysis Total</b>					<b>48</b>	

**Project Activity 23: Lighting Analysis**

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
FDOT Lighting Design	EA	0	0	0			0
FDOT Traffic Design	EA	0	0	0			0
Power Company (service point coordination)	EA	1	3	3			0
Maintaining Agency (cities, counties)	EA	1	3	3			0
Airport authority	EA	0	0	0			0
FDEP Lighting (coast areas)	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
<b>Subtotal Technical Meetings</b>				<b>6</b>		<b>Subtotal Project Manager Meetings</b>	<b>0</b>
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
<b>Total Meetings</b>				<b>6</b>		<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to 23.14

Carries to Tab 3

**24. Lighting Plans**

Estimator: Hendrickson

Lakeview Rd & Keene Rd Intersection & Drainage Improvements (60%, 90% and 100% Plans and Permitting)

Representing	Print Name	Signature / Date
Pinellas County		
Burgess & Niple		

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

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
24.1	Key Sheet		Sheet	0	0	0	0	no separate key sheet
24.2	Summary of Pay Items Including Designer Interface Input		Sheet	0	0	0	0	
24.3	Tabulation of Quantities		Sheet	0	0	0	0	Included in signals
24.4	General Notes/Pay Item Notes		Sheet	0	0	0	0	Included in signals
24.5	Pole Data, Legend and Criteria		Sheet	1	6	1	6	
24.6	Service Point Details		Sheet	0	0	0	0	
24.7	Project Layout		Sheet	0	0	0	0	
24.8	Plan Sheet		Sheet	1	4	1	4	
24.9	Special Details		Sheet	0	0	0	0	
24.10	Temporary Highway Lighting Detail Sheets		Sheet	0	0	0	0	
24.11	Temporary Highway Lighting Plan Sheets		Sheet	0	0	0	0	
24.12	Interim Standards		LS	1	0		0	
<b>Lighting Plans Technical Subtotal</b>						<b>2</b>	<b>10</b>	
24.13	Quality Assurance/Quality Control		LS	%	5%		1	
24.14	Supervision		LS	%	5%		1	
<b>24. Lighting Plans Total</b>						<b>2</b>	<b>12</b>	